

# SITE DEVELOPMENT DRAWINGS FOR:

# SHELL/DAILY'S C-STORE NO. 1810

## 4701 WEST SAMPLE ROAD

## CITY OF COCONUT CREEK, FL

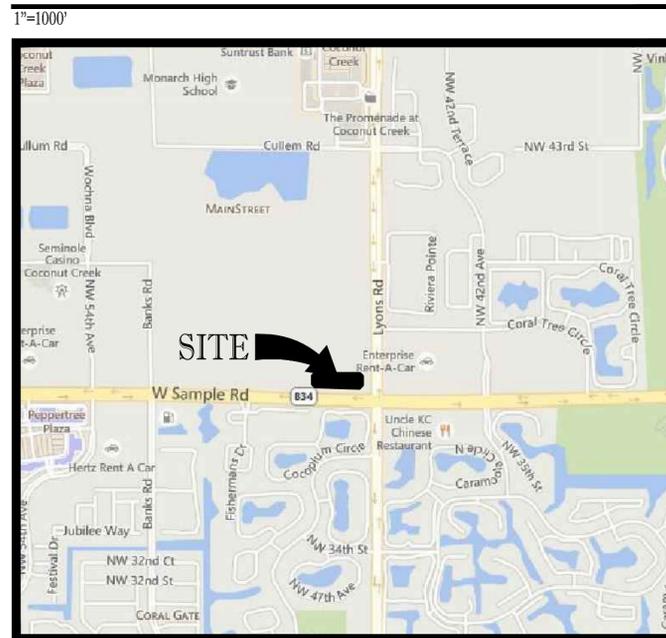
## SECTION 18, TOWNSHIP 48S, RANGE 42E

## FOR FIRST COAST ENERGY

VICINITY \ AERIAL MAP



LOCATION MAP



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**LEGAL DESCRIPTION:**  
TRACT "C" OF "LYONS AND SAMPLE ROAD PLAT" ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 152 AT PAGE 44 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

PREPARED BY



CIVIL ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTS  
RADICE III PH: (954) 202-7000  
1000 CORPORATE DRIVE, SUITE 250 FT. LAUDERDALE, FL. 33334 FX: (954) 202-7070  
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THE INFORMATION, DATA AND CONTENT OF THIS PLAN AND DRAWINGS AND SHALL NOT BE CONSIDERED AS A CONTRACT OR USED FOR ANY PURPOSE WITHOUT FIRST OBTAINING THE WRITTEN CONSENT OF THOMAS ENGINEERING GROUP, INC.

REVISIONS			
REV.	DATE	COMMENT	BY:
1	02/9/16	PER DRC COMMENTS	MEC
2	06/7/16	UPDATE SHEET INDEX	MEC
3	09/28/16	PER DRC COMMENTS	KNN
4	1/31/17	PER DRC COMMENTS	KNN

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**SITE ENTITLEMENTS**

PROJECT No.:	F140188
CHECKED BY:	AAM
DATE:	07/28/15 (TYP.)
CAD I.D.:	F140188 - COVER

PROJECT:  
**SHELL / DAILY'S  
C-STORE No. 1810**  
FOR  
**FIRST COAST  
ENERGY**  
CITY OF COCONUT CREEK  
FLORIDA

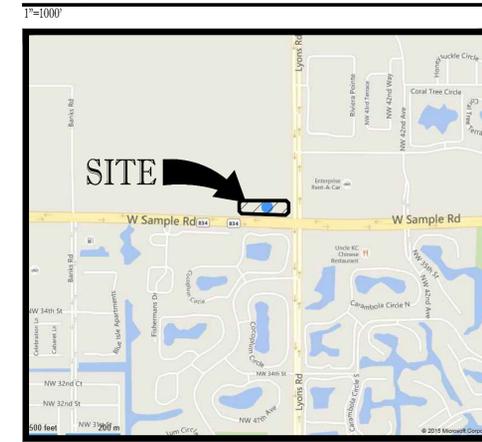
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**MICHAEL A. TROXELL**  
PROFESSIONAL ENGINEER  
June 30, 2017  
FLORIDA LICENSE No. 55672  
FLORIDA BUSINESS CERT. OF AUTH. No. 27528

SHEET TITLE:  
**COVER SHEET**  
SHEET NUMBER:  
**C-01**

Printed on Friday, June 30, 2017, 1:59 PM by radice.01@thomaseng.com

LOCATION MAP



SITE DATA TABLE

OWNER: FIRST COAST ENERGY LLP  
7014 A C SKINNER PARKWAY SUITE 290  
JACKSONVILLE FL 32256

TAX MAP ID#: 484217040020

FEMA FLOOD ZONE: ZONE X PER FLOOD PANEL 120031 0170H (EFFECTIVE 8/18/14)

LAND USE INFORMATION:  
CURRENT USE: CONVENIENCE STORE WITH FUEL PUMPS  
PROPOSED USE: CONVENIENCE STORE WITH FUEL PUMPS  
FUTURE LAND USE DESIGNATION: RAC  
EXISTING ZONING DESIGNATION: B-2 (CONVENIENCE SHOPPING DISTRICT)  
FUTURE ZONING DESIGNATION: PMDD  
PLANNED MAINSTREET DEVELOPMENT DISTRICT MS-P

MAIN STREET SUB-DISTRICT

SITE AREA:	REQUIRED	PROPOSED
TOTAL AREA	92,294 S.F.	2,119 AC.
DIMENSION REGULATIONS:		
SET BACKS:		
FRONT - SOUTH (FEET):	28'	49.93'
STREET SIDE - EAST (FEET):	28'	140.49'
SIDE - WEST (FEET):	10'	109'
REAR - NORTH (FEET):	10'	13.35'
MAX. FLOOR AREA RATIO (RATIO):	0.64	0.07
MAX. LOT COVERAGE (PERCENT):	40	6.8
MIN. LANDSCAPE AREA (PERCENT):	20	27.93
MAX. HEIGHT (FEET):	75	19
MAX. HEIGHT (STORIES):	6	1

SITE AREA:	EXISTING		PROPOSED		CHANGE
	S.F.	ACRES	S.F.	ACRES	
IMPERVIOUS:					
BUILDING	2,178	0.050	5,000	0.115	5.42%
CAR WASH	653	0.015	1,300	0.030	1.41%
PAVEMENT	48,632	1.116	52,699	1.186	6.55%
SIDEWALK/CURB	3,617	0.084	12,731	0.292	13.79%
TOTAL	55,080	1.265	61,990	1.423	67.17%
PERVIOUS:					
OPEN SPACE:	33,106	0.760	24,167	0.555	26.18%
DRY DETENTION	4,108	0.094	6,137	0.141	6.65%
TOTAL	37,214	0.854	30,304	0.696	32.83%
OVERALL TOTAL	92,294	2.119	92,294	2.119	100.0%

PARKING DATA

REQUIRED (BASED ON CUSTOMER SERVICE AREA):	USE	AREA	RATIO	AMOUNT
CONVENIENCE STORE (CUSTOMER AREA ONLY)	2,692 S.F.	1 SPACE/ 125 S.F.		22 SPACES
REQUIRED NUMBER OF ACCESSIBLE SPACES				1 SPACE

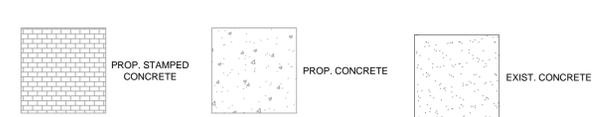
PROVIDED:

TYPE	AMOUNT
STANDARD SPACES (MIN. 10' X 20')	24
ACCESSIBLE SPACES (MIN. 12' X 18')	1
TOTAL SPACES	25

LOADING DATA

TYPE	AMOUNT
REQUIRED (12' X 55')	1
PROVIDED (12' X 55')	1

HATCH LEGEND

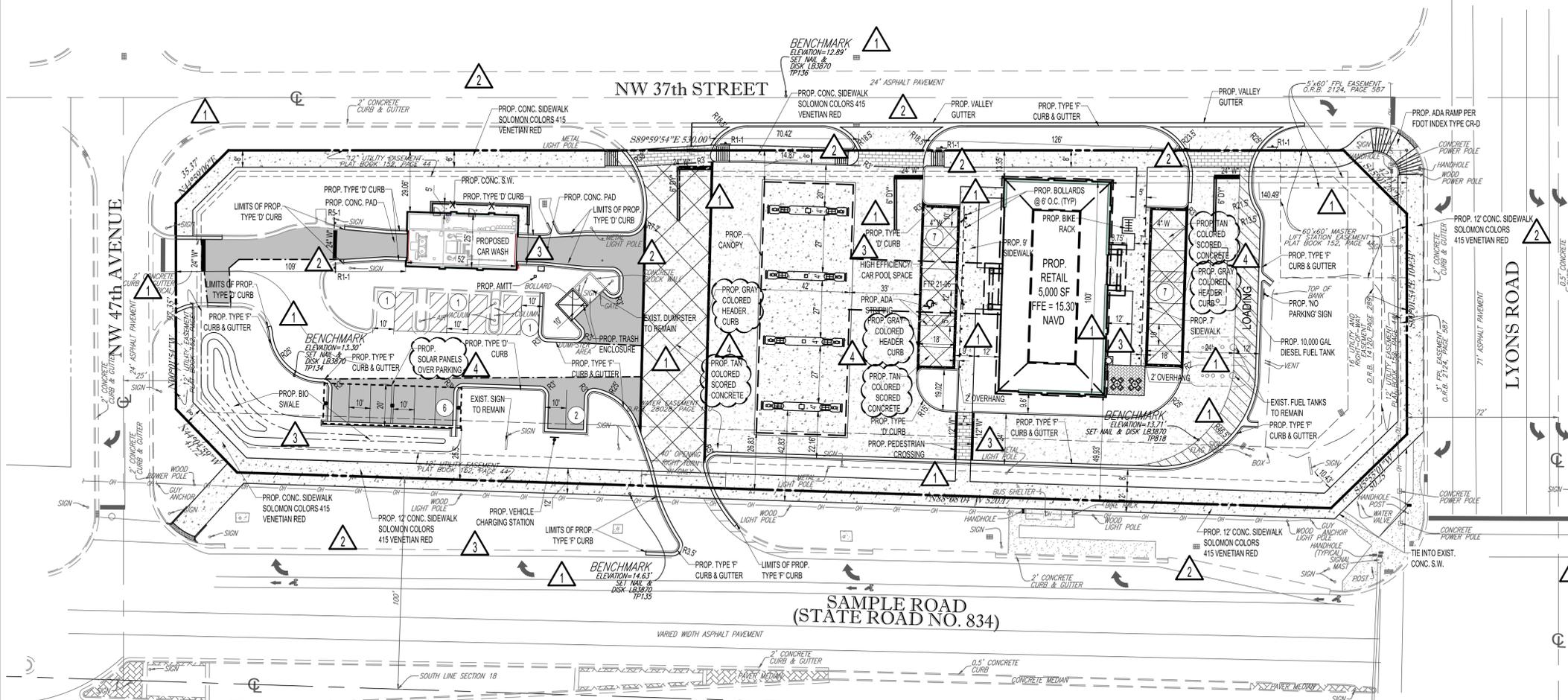


LEGEND

- R1-1 STOP SIGN (30" x 30")
- R5-1 DO NOT ENTER SIGN (30" x 30")
- FTP 21-06 ACCESSIBLE PARKING
- A.A. DOUBLE YELLOW
- W. WHITE
- D.W. DOUBLE WHITE
- THERMOPLASTIC

LEGAL DESCRIPTION:

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Printed on Friday, June 13, 2014, 9:59 AM by Kevin D'Amico. SITE PLAN - CONVENIENCE STORE PLAN ENHANCEMENTS (ACTION) - SITE PLAN - CONVENIENCE STORE PLAN ENHANCEMENTS (ACTION)

**THOMAS**  
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REVISIONS

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CAD I.D.: F140188 - SITE PLAN

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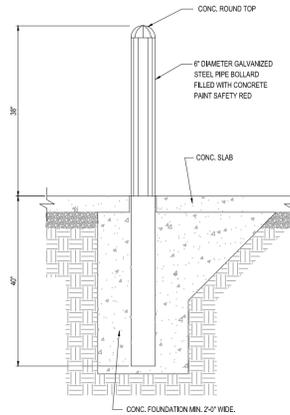
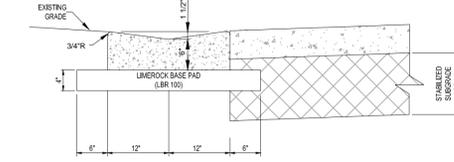
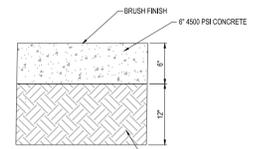
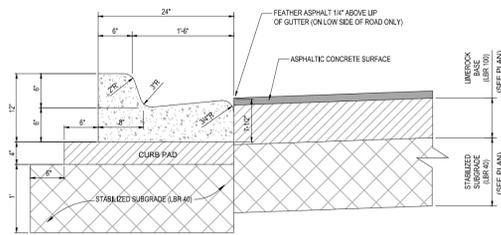
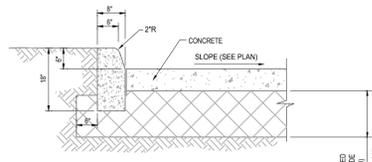
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**MICHAEL A. TROXELL**

PROFESSIONAL ENGINEER  
June 23, 2011  
FLORIDA LICENSE No. 55672  
FLORIDA BUSINESS CERT. OF AUTH. No. 27528

SHEET TITLE:  
**SITE PLAN**

SHEET NUMBER:  
**C-03**



**1 CONCRETE CURB (TYPE 'D') DETAIL**

SCALE: NONE

**2 TYPE 'F' CURB & GUTTER DETAIL**

SCALE: NONE

**3 CONCRETE PAVEMENT SECTION**

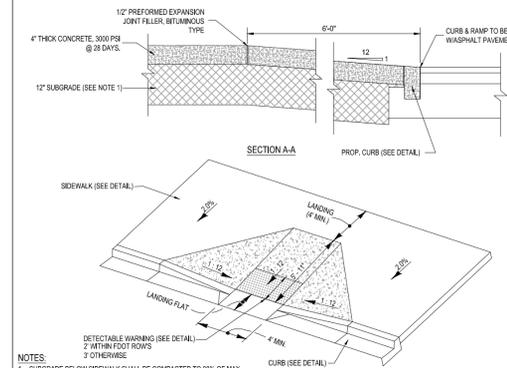
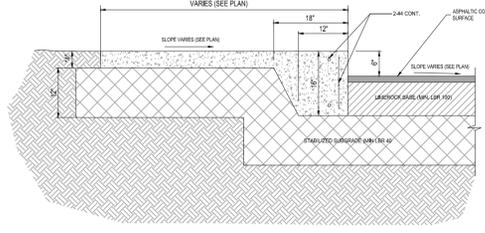
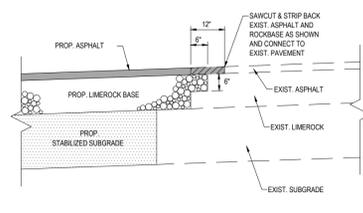
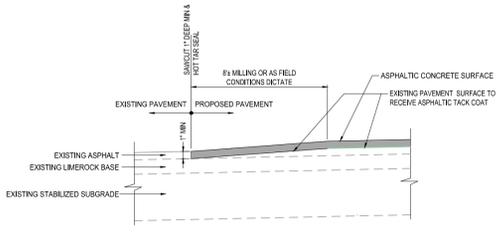
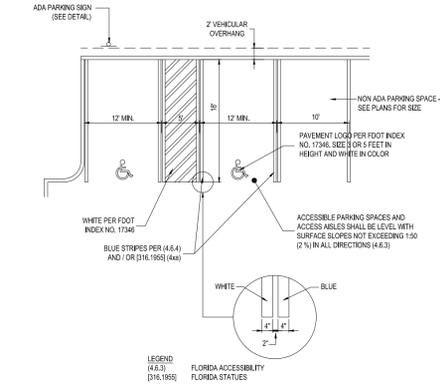
SCALE: NONE

**4 VALLEY GUTTER DETAIL**

SCALE: NONE

**5 BOLLARD DETAIL**

SCALE: NONE



**6 ACCESSIBLE PARKING SPACE - ADA COMPLIANT**

SCALE: NONE

**7 PAVEMENT SAWCUT/MILLING DETAIL**

SCALE: NONE

**8 CONNECTION TO EXISTING PAVEMENT DETAIL**

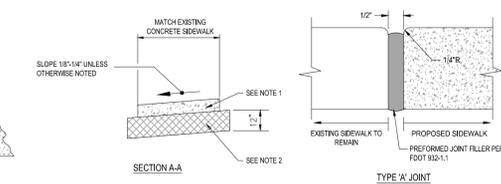
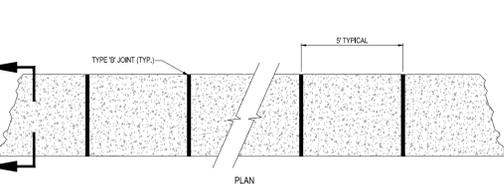
SCALE: NONE

**9 THICKENED EDGE SIDEWALK DETAIL**

SCALE: NONE

**10 ADA CURB RAMP DETAIL - FDOT CR-A**

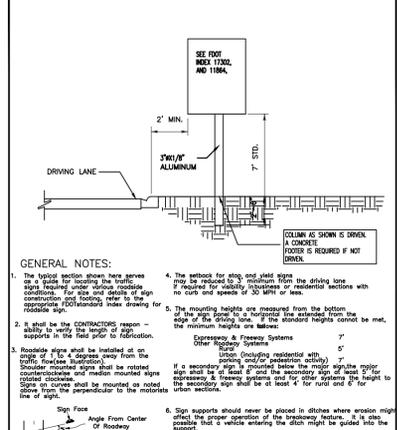
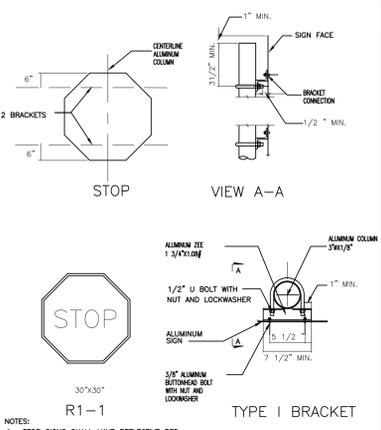
SCALE: NONE



- NOTES:
- SIDEWALK SHALL BE 4" THICK EXCEPT IN DRIVEWAYS WHERE THE THICKNESS SHALL BE 6".
  - SUBGRADE BELOW SIDEWALK SHALL BE COMPACTED TO 98% OF MAX. DENSITY PER A.A.S.H.T.O. T-190. (12" THICKNESS)
  - CONCRETE STRENGTH SHALL BE MIN. 3000 PSI @ 28 DAYS.
  - SIDEWALK REMOVAL & REPLACEMENTS TO CONSIST OF FULL FLAGS.
  - PROVIDE EXPANSION JOINT (TYPE 'A') AT CONNECTIONS BETWEEN NEW AND EXISTING SIDEWALK.

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

- NOTES:
- SUBGRADE BELOW SIDEWALK SHALL BE COMPACTED TO 98% OF MAX. DENSITY PER A.A.S.H.T.O. T-190.
  - HANDICAP RAMP TO BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST ADA GUIDELINES.
  - RAMP WIDTHS FOR CURB RAMP MAY BE REDUCED TO 3' MIN IN RESTRICTED CONDITIONS WHEN APPROVED BY THE ENGINEER.
  - LOWER LANDING NOT REQUIRED AT DRIVEWAYS, PARKING LOTS, OR OTHER AREAS WITH PAVEMENT CROSS-SLOPE LESS THAN 2% (0.02).



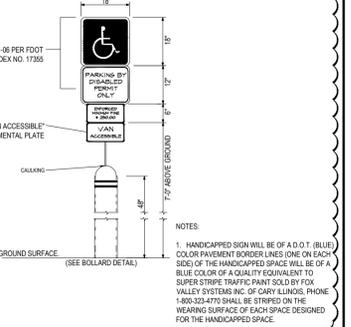
- GENERAL NOTES:
- The posted section shown here serves as a guide for locating the sign. Signs backing under other existing signs shall be placed in accordance with the posted section. For size and details of sign construction, refer to the applicable Florida Manual on Uniform Traffic Control Devices.
  - It shall be the CONTRACTOR'S responsibility to verify the length of sign supports in the field prior to erection.
  - Roadside signs shall be installed on edge of road or adjacent to the roadway. Signs shall be installed on the right side of the roadway. If a secondary sign is provided below the major sign, the sign shall be at least 5' and the secondary sign of less than 5' shall be at least 4' for road side or for urban situations.
  - Sign supports should never be placed in ditches where erosion might affect the proper operation of the drainage system. It is the contractor's duty to verify the location of the ditch prior to sign installation.

**11 SIDEWALK DETAILS**

SCALE: NONE

**12 ADA CURB RAMP DETAIL - FDOT CR-G**

SCALE: NONE



- NOTES:
- HANDICAPPED SIGN SHALL BE OF A.D.O.T. (BLUE) COLOR PAVEMENT BORDER LINES (ONE ON EACH SIDE) OF THE HANDICAPPED SPACE SHALL BE OF A BLUE COLOR OF A QUALITY EQUIVALENT TO SUPER STRIPE TRAFFIC PAINT SOLD BY FOX VALLEY SYSTEMS INC. OF GAITHERSBURG, PHOENIX 1-800-322-4770 SHALL BE STRIPED ON THE WEARING SURFACE OF EACH SPACE DESIGNED FOR THE HANDICAPPED SPACE.

ADA ACCESSIBLE PARKING SIGNS (FL) N.T.S.

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REVISIONS

REV.	DATE	COMMENT	BY:
1	02/9/16	PER DRC COMMENTS	MEC

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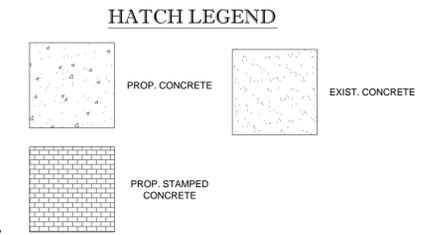
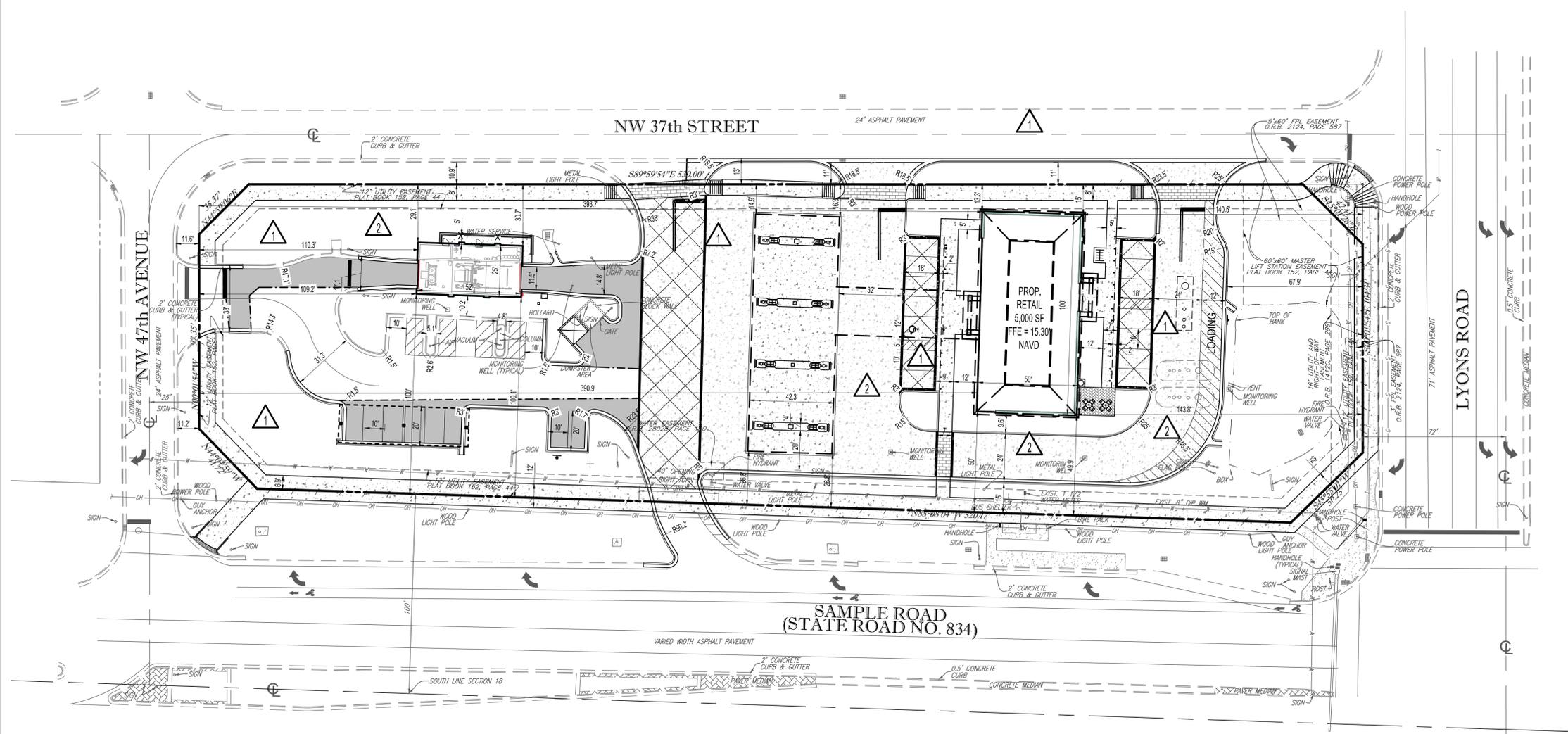
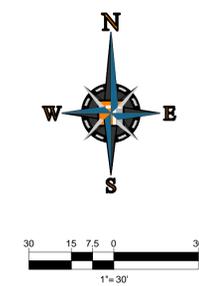
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PROFESSIONAL ENGINEER  
 June 6, 2017  
 FLORIDA LICENSE No. 52672  
 FLORIDA BUSINESS CERT. OF AUTH. No. 27528

SHEET TITLE:  
**SITE DETAILS**

SHEET NUMBER:  
**C-04**



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 P: 954-202-7000 | P: 813-379-4100 | P: 561-203-7603  
THE INFORMATION, DESIGN AND CONSTRUCTION OF THIS PLAN AND FOUNDATION AND SHALL BE THE SOLE RESPONSIBILITY OF THE ENGINEER. THE INFORMATION, DESIGN AND CONSTRUCTION OF THIS PLAN AND FOUNDATION AND SHALL BE THE SOLE RESPONSIBILITY OF THE ENGINEER.

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SHEET TITLE:  
**GEOMETRIC PLAN**

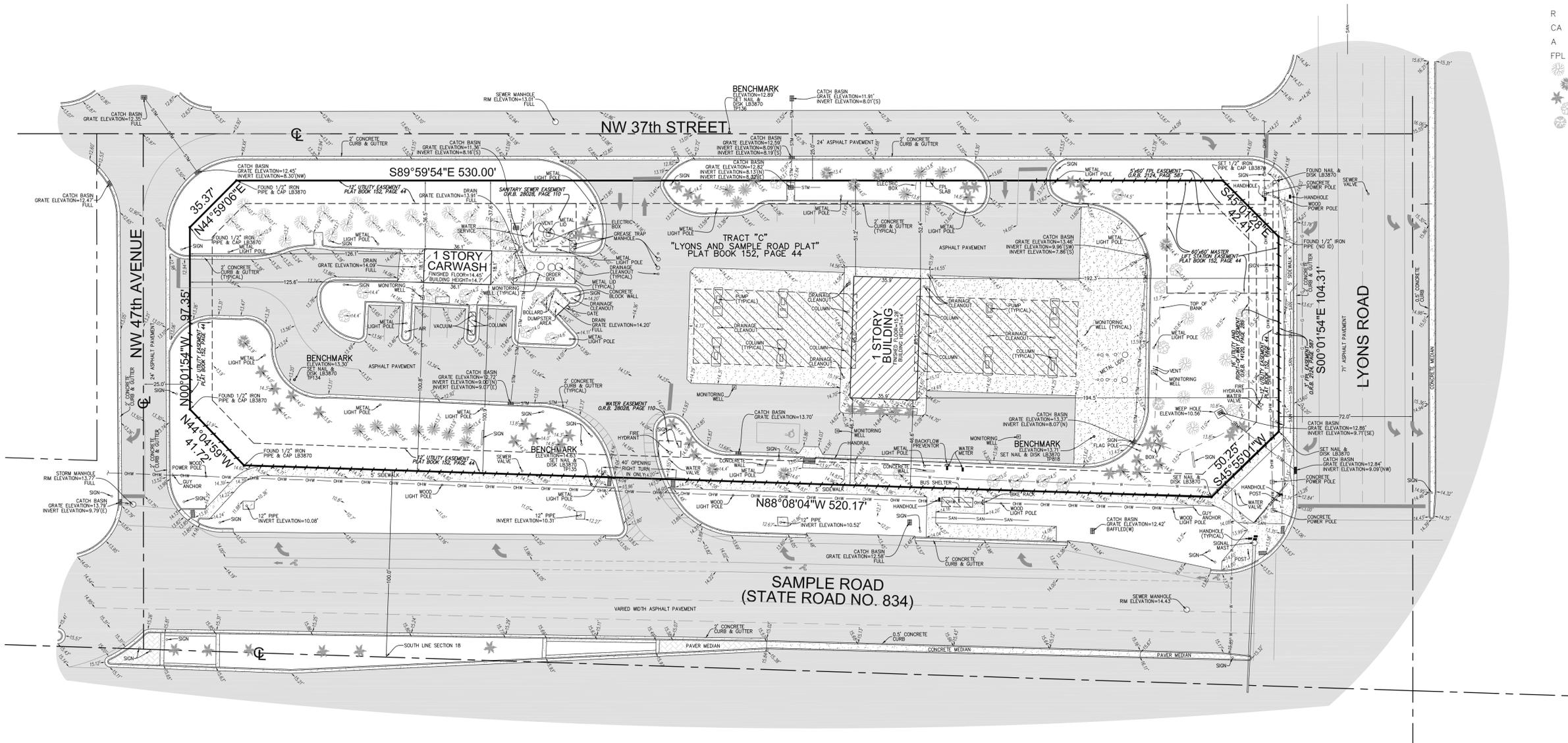
SHEET NUMBER:  
**C-05**

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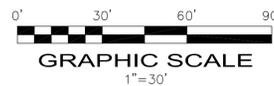
**LEGAL DESCRIPTION:**  
TRACT "C" OF "LYONS AND SAMPLE ROAD PLAT" ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 152 AT PAGE 44 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

- NOTES:**
- 1) THIS SITE CONTAINS 92,294 SQUARE FEET (2.1188 ACRES) MORE OR LESS.
  - 2) ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. BROWARD COUNTY BENCHMARK #2731; ELEVATION: 13.402 FEET.
  - 3) FLOOD ZONE: X; BASE FLOOD ELEVATION: NONE; PANEL #120031 0170H; MAP DATE: 8/18/14.
  - 4) THIS SITE LIES IN SECTION 18, TOWNSHIP 48 SOUTH, RANGE 42 EAST, BROWARD COUNTY, FLORIDA.
  - 5) BEARINGS ARE BASED ON THE NORTH LINE OF TRACT C BEING S89°59'54"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.
  - 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 12 TOTAL PARKING SPACES (11 REGULAR & 1 HANDICAPPED).
  - 10) THIS SURVEY WAS PREPARED WITHOUT BENEFIT OF A COMMITMENT FOR TITLE INSURANCE. ONLY PLATTED OR KNOWN EASEMENTS ARE DEPICTED HEREON.

- LEGEND**
- CONCRETE
  - ASPHALT PAVEMENT
  - ELEVATION
  - OVERHEAD WIRES
  - UNDERGROUND WATER LINE
  - UNDERGROUND STORM SEWER LINE
  - UNDERGROUND SANITARY SEWER LINE
  - UNDERGROUND GAS LINE
  - UNDERGROUND TELEPHONE LINE
  - UNDERGROUND ELECTRIC LINE
  - NON-VEHICULAR ACCESS LINE
  - CENTERLINE
  - O.R.B. OFFICIAL RECORDS BOOK
  - TP TRAVERSE POINT (FOR FIELD INFORMATION ONLY)
  - R RADIUS
  - CA CENTRAL ANGLE
  - A ARC LENGTH
  - FPL FLORIDA POWER & LIGHT COMPANY CYPRESS TREE
  - OAK TREE
  - PALM TREE
  - UNIDENTIFIED TREE
  - GUMBO LIMBO



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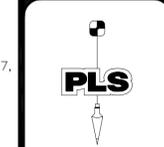
**CERTIFICATION:**  
I HEREBY CERTIFY: THAT THIS SKETCH OF SURVEY MEETS THE STANDARDS OF PRACTICE SET FORTH BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES ("DOACS") CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.  
NOT VALID WITHOUT THE SIGNATURE 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  
STATE OF FLORIDA

NO.	REVISIONS	BY
5		
4		
3		
2		
1		

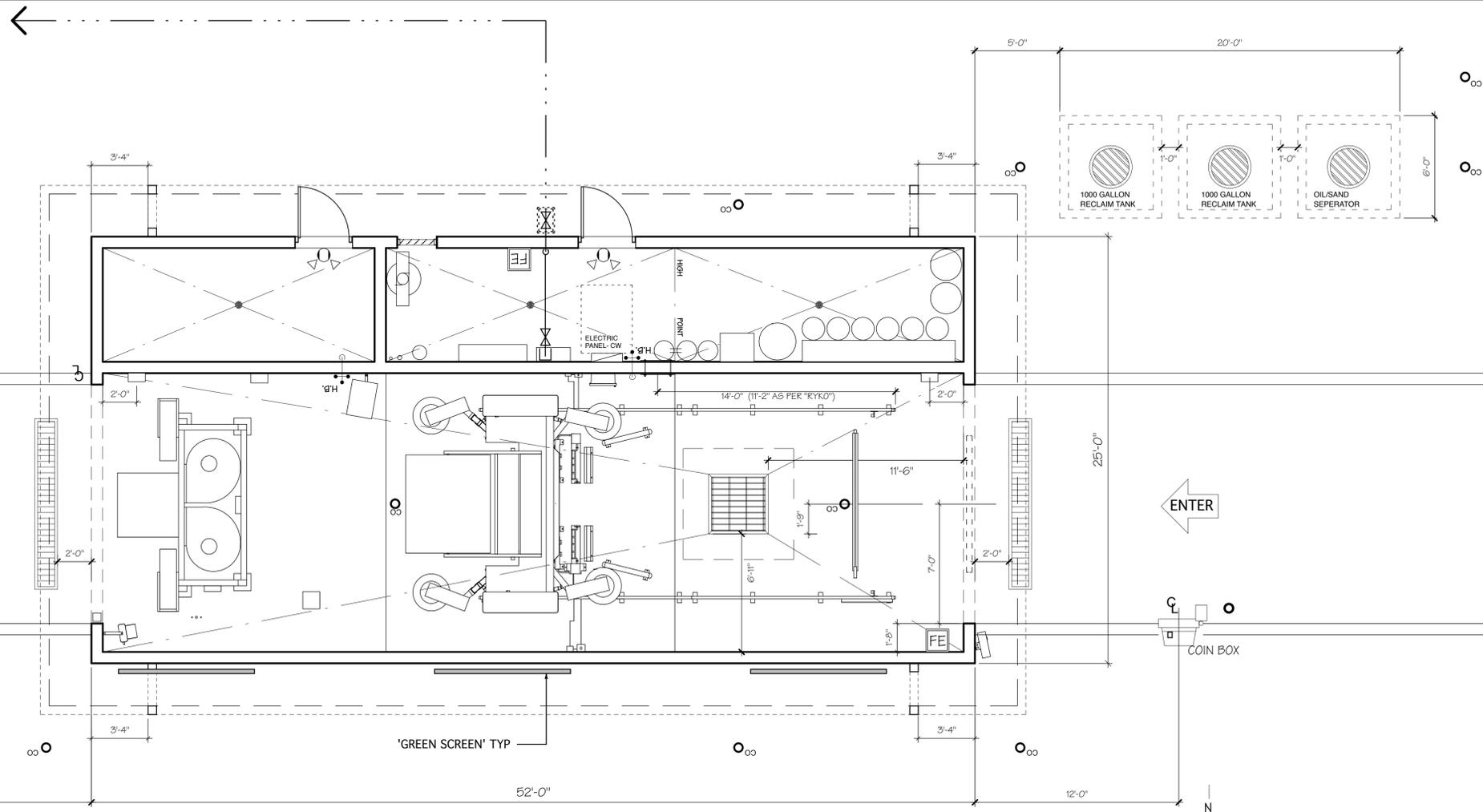
**FIRST COAST ENERGY**  
**SITE #1810**  
4701 WEST SAMPLE ROAD  
COCONUT CREEK, BROWARD COUNTY,  
FLORIDA 33073

**BOUNDARY AND TOPOGRAPHIC SURVEY**

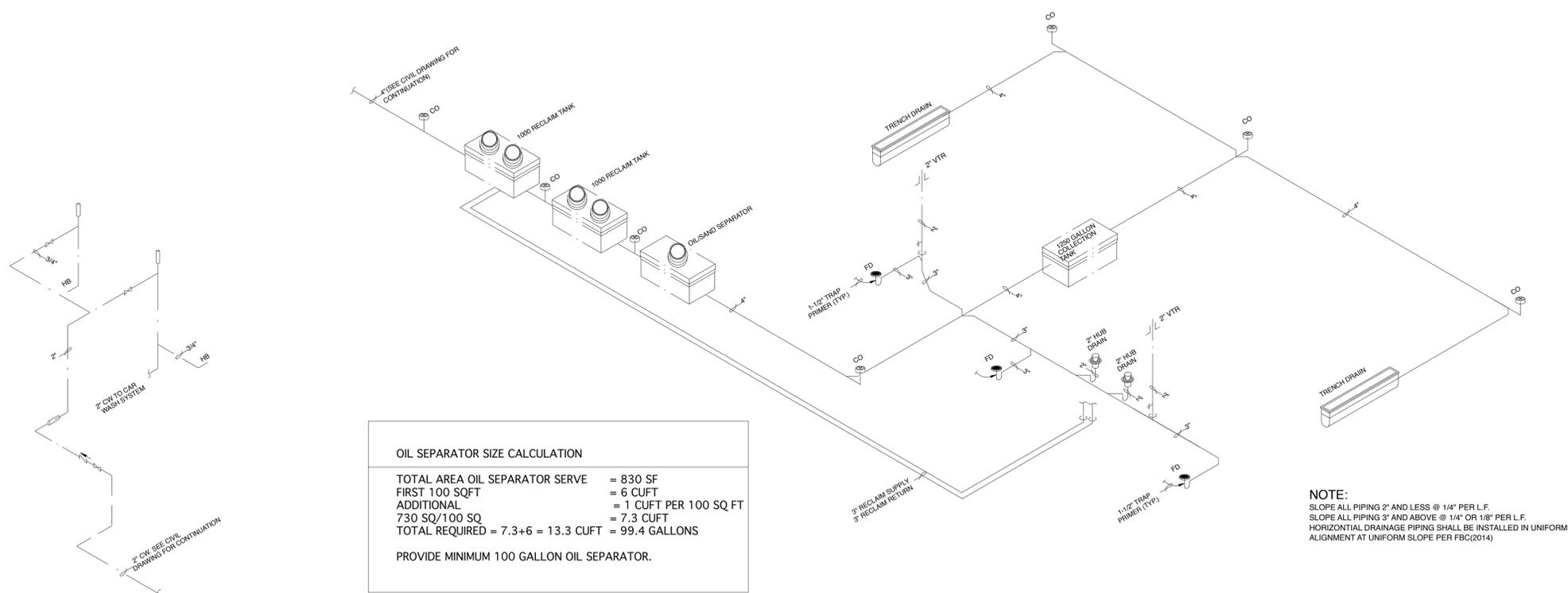


**PULICE LAND SURVEYORS, INC.**  
5381 NOB HILL ROAD  
SUNRISE, FLORIDA 33351  
TELEPHONE: (954) 572-1777  
FAX: (954) 572-1778  
E-MAIL: surveys@puliceandsurveyors.com  
CERTIFICATE OF AUTHORIZATION LB93870

DRAWN BY: L.S. SCALE: 1" = 30' FILE: THOMAS ENGINEERING GROUP  
CHECKED BY: J.F.P. SURVEY DATE: 4/30/15 ORDER NO.: 58931



1 PROPOSED FLOOR PLAN - CARWASH SCALE 1/4"=1'-0"



OIL SEPARATOR SIZE CALCULATION

TOTAL AREA OIL SEPARATOR SERVE	= 830 SF
FIRST 100 SQFT	= 6 CUFT
ADDITIONAL	= 1 CUFT PER 100 SQ FT
730 SQ/100 SQ	= 7.3 CUFT
TOTAL REQUIRED	= 7.3+6 = 13.3 CUFT = 99.4 GALLONS

PROVIDE MINIMUM 100 GALLON OIL SEPARATOR.

NOTE:  
SLOPE ALL PIPING 2" AND LESS @ 1/4" PER L.F.  
SLOPE ALL PIPING 3" AND ABOVE @ 1/8" OR 1/8" PER L.F.  
HORIZONTAL DRAINAGE PIPING SHALL BE INSTALLED IN UNIFORM ALIGNMENT AT UNIFORM SLOPE PER FBC(2014)



MARK	DESCRIPTION	DATE
▲		
▲		
▲		
▲		
▲		
▲		
▲		
▲		
▲		
▲		

MARC WIENER, A.I.A.  
ARCHITECTURE/PLANNING  
851 SOUTH FEDERAL HIGHWAY, SUITE 203  
BOCA RATON, FLORIDA 33432  
561-750-4111 FAX 561-750-5298

FIRST COAST ENERGY  
7014 A.C. Skinner Pkwy  
Suite 290  
Jacksonville, Florida 32256

C-STORE / CARWASH  
STORE # 1810  
4107 W SAMPLE ROAD  
COCONUT CREEK, FLORIDA

JOB NUMBER	15037
SCALE	AS NOTED
ISSUE DATE	16.06.03
PERMIT DATE	
BID DATE	

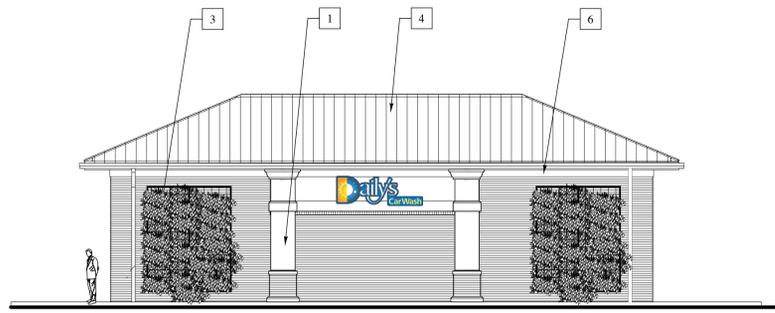
DRAWN BY	
CHECKED BY	MW
DISCIPLINE	ARCHITECTURE
PLAN TYPE	
SHEET NUMBER	A2.03

15037 - CW A2.01 03 - 16.02.09  
PLOT : 16.02.09

CAR WASH WATER PIPING ISOMETRIC  
SCALE: N.T.S.

CAR WASH SANITARY PIPING & WATER RECLAMATION SYSTEM ISOMETRIC  
SCALE: N.T.S.

© MARC WIENER, A.I.A.



CARWASH SOUTH SIDE ELEVATION  
SCALE 1/8"=1'-0"



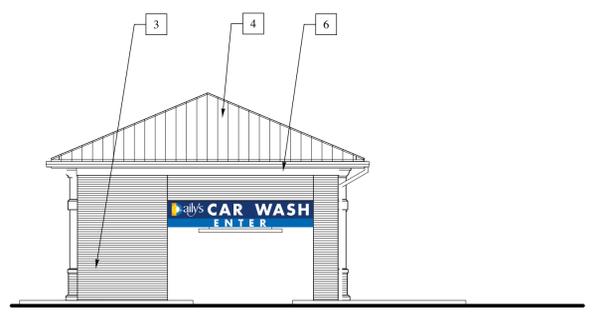
WEST ELEVATION  
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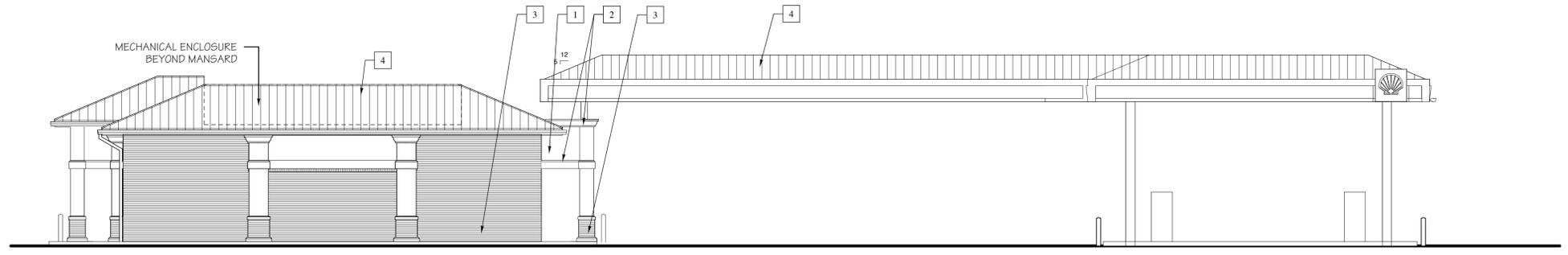
CARWASH NORTH SIDE ELEVATION  
SCALE 1/8"=1'-0"



EAST ELEVATION  
SCALE 1/8"=1'-0"



CARWASH EAST ELEVATION  
SCALE 1/8"=1'-0"



NORTH SIDE ELEVATION  
SCALE 1/8"=1'-0"



CARWASH WEST ELEVATION  
SCALE 1/8"=1'-0"

MATERIAL SCHEDULE					
15033				15.07.13	
CATEGORY	MARK	MATERIAL	FINISH	COLOR	MANUFACTURER #
<b>EXTERIOR WALLS</b>					
FIELD	1	STUCCO	PAINT	BEIGE	BEHR-SOFT LIGHTS
ACCENT & TRIM	2	STUCCO BAND	PAINT	OFF WHITE	BEHR-NANO WHITE HDC-06
VENEER	3	BRICK		TERRA COTTA/TAN	GERNERAL SHALE - CORTEZ
ROOF	4	STANDING SEAM METAL	METAL	MEDIUM BRONZE	SNAP-LOCK ( EQUAL TO DREXEL METALS DMC-1756)
STOREFRONT	5	ALUMINUM SOREFRONT	ANODIZED	CLEAR FRAME & CLEAR GLASS	
TRIM	6	STUCCO BAND	PAINT	DAILY'S BLUE	GLIDDEN KING'S TREASURE BLUE- 83BB 07/202

SOUTH SIDE ELEVATION  
SCALE 1/8"=1'-0"



MARK	DESCRIPTION	DATE

MARC WIENER, A.I.A.  
ARCHITECTURE/PLANNING  
AR # 000418  
851 SOUTH FEDERAL HIGHWAY, SUITE 2003  
BOCA RATON, FLORIDA 33432  
561-750-4111 FAX 561-750-5595

FIRST COAST ENERGY  
7014 A.C. Skinner Pkwy  
Suite 290  
Jacksonville, Florida 32256

C-STORE / CARWASH  
STORE # 181Q  
4107 W SAMPLE ROAD  
COCONUT CREEK, FLORIDA

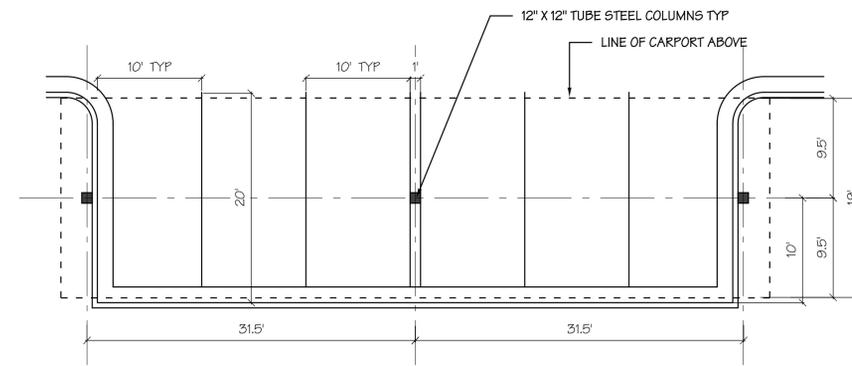
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SCALE	AS NOTED
ISSUE DATE	16.06.03
PERMIT DATE	
BID DATE	

DRAWN BY	MW
CHECKED BY	MW
DISCIPLINE	ARCHITECTURE
PLAN TYPE	ELEVATIONS
SHEET NUMBER	A3.01

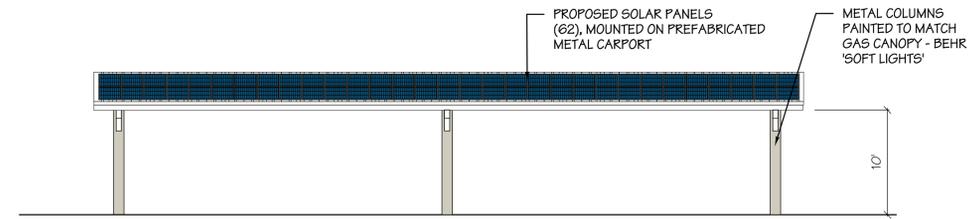
15037 - A3.01 05 - 17.05.22  
PLOT : 17.05.22



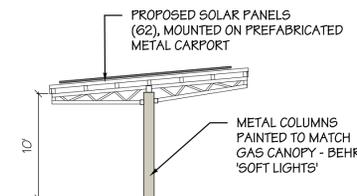
- NOTE:  
 SOLAR PANELS TO BE PROVIDED TO  
 ENERGIZE THE FOLLOWING LIGHTING :
- 12 CARWASH COVE LIGHT FIXTURES
  - 8 CARWASH BAY FIXTURES
  - 2 CARWASH WALL PACKS
  - 3 STORAGE ROOM FIXTURES
  - 2 DETAIL CENTER FIXTURES



PLAN  
 SCALE 1/8"=1'-0"



SOUTH SIDE ELEVATION  
 SCALE 1/8"=1'-0"



TYPICAL SIDE ELEVATION  
 SCALE 1/8"=1'-0"



PROTOTYPICAL EXAMPLE OF CARPORT

FREESTANDING CARPORT W/ SOLAR PANELS



MARK	DESCRIPTION	DATE
▲		
▲		
▲		
▲		
▲		
▲		
▲		
▲		
▲		
▲		

MARC WIENER, A.I.A. ARCHITECTURE/PLANNING AS # 000148 851 SOUTH FEDERAL HIGHWAY, SUITE 203 BOCA RATON, FLORIDA 33432 561-750-4111 FAX 561-750-5595
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FIRST COAST ENERGY 7014 A.C. Skinner Pkwy Suite 290 Jacksonville, Florida 32256
--

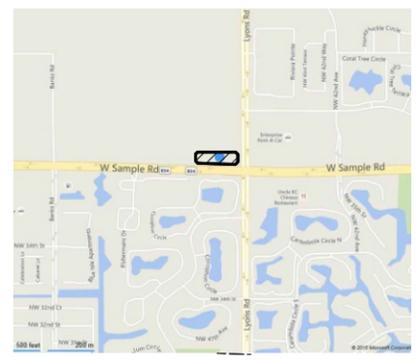
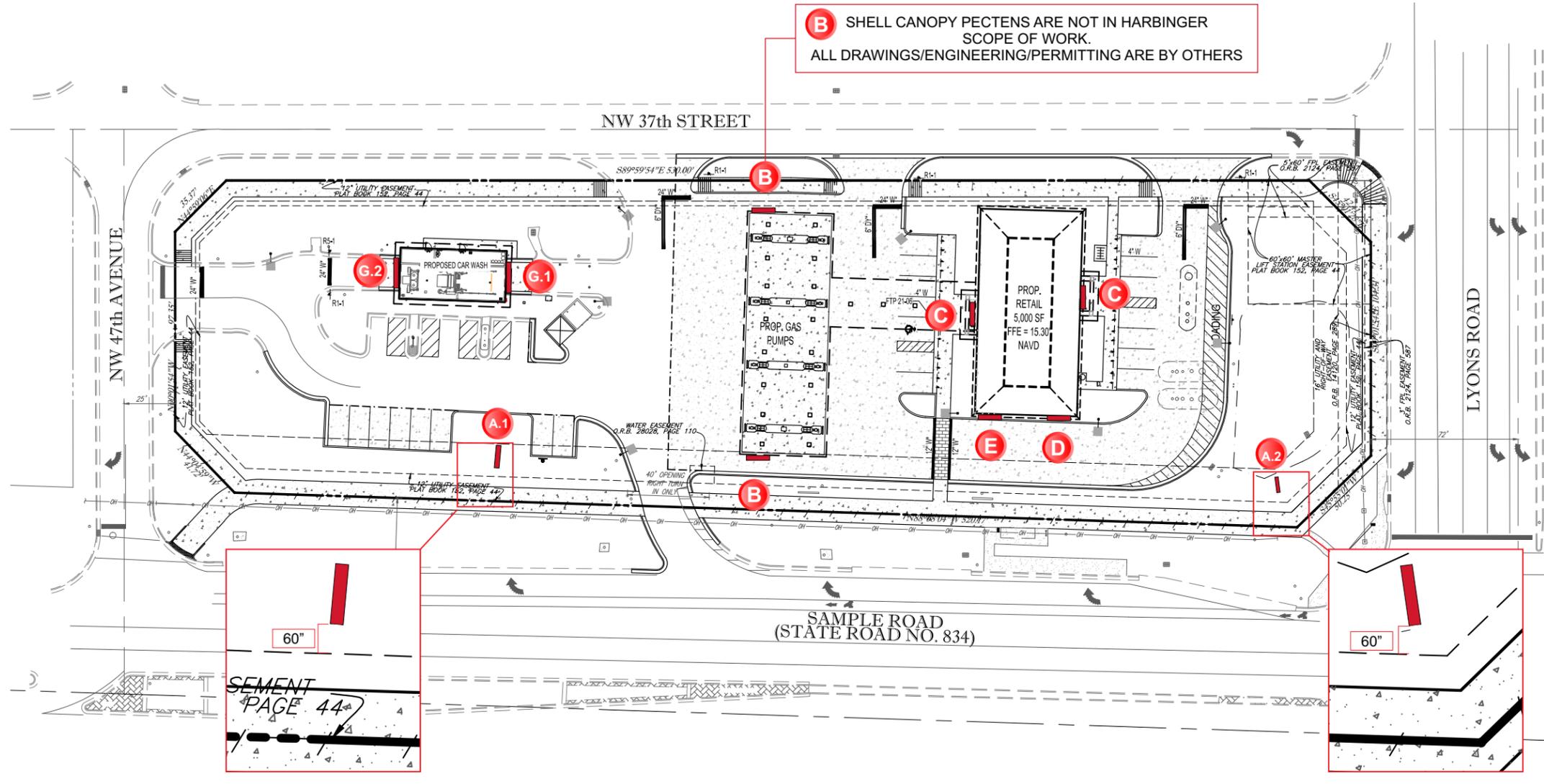
C-STORE / CARWASH STORE # 1810 4107 W SAMPLE ROAD COCONUT CREEK, FLORIDA
---

JOB NUMBER	15037
SCALE	AS NOTED
ISSUE DATE	16.06.03
PERMIT DATE	
BID DATE	

DRAWN BY	
CHECKED BY	MW
DISCIPLINE	ARCHITECTURE
PLAN TYPE	
SHEET NUMBER	A3.02

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SITE DATA TABLE

**THOMAS ENGINEERING GROUP**  
 CIVIL ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTS  
 1000 CORPORATE DR. SUITE 600 FORT LAUDERDALE, FL 33334  
 4660 W. KENNEDY BLVD. SUITE 200 WEST PALM BEACH, FL 33411  
 P: (954) 202-7070 P: (561) 202-7033

REV.	DATE	COMMENT	BY

**811** KNOW WHATS BELOW ALWAYS CALL 811 BEFORE YOU DIG  
 www.callsunshine.com

**SITE ENTITLEMENTS**

PROJECT No. F140188  
 DRAWN BY: AAM  
 CHECKED BY: MAT  
 DATE: 07/28/15  
 CAD ID: F140188 - SITE PLAN

**SHELL / DAILY'S C-STORE No. 1810**

FOR

**FIRST COAST ENERGY**

CITY OF COCONUT CREEK 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  
 May 2, 2018  
 FLORIDA LICENSE No. 50572  
 FLORIDA BUSINESS CERT. OF AUTH. No. 27520

SHEET TITLE: \_\_\_\_\_

SHEET NUMBER: \_\_\_\_\_



**HATCH LEGEND**

	PROP. STAMPED CONCRETE		PROP. CONCRETE		EXIST. CONCRETE
--	------------------------	--	----------------	--	-----------------

Site Plan as shown



5300 SHAD ROAD, JACKSONVILLE, FL. 32257 904.268.4681



**FCEI79-R7 #1810 Coconut Creek, FL DRC REVIEW**

F:\First Coast Energy - (Daily's)\ART\Art CDR  
 \FCEI79-R7 #1810 Coconut Creek, FL DRC REVIEW.cdr

**Manufacture & Install**  
 05.04.15 : ORIGINAL CONCEPT  
 09.23.15 : R1 - various - tb  
 10.28.15: R2 - carwash size - tb  
 04.29.16 : R3 - added "Daily's" c/l to back - tb  
 10.14.15 : R4 - "Daily's" c/l chg. to cabinet - tb  
 01.18.17 : R5 - reduced front c/l. removed gas canopy - tb  
 02.06.17 : R6 - added enter/exit to carwash - tb  
 05.25.17 : R7 - increased size of carwash signs - tb

Salesperson: RW PM: JC Designer: TB Page: 1

customer approval date: \_\_\_\_\_



Complies with UL 48 CSA C22.2 No.207

THE SIGNS ON THESE PAGES HAVE BEEN DESIGNED TO MEET OR EXCEED ALL APPLICABLE CODES OR REQUIREMENTS OF THE NEC-2011 AND/OR THE 2010 FBC AND/OR THE 2007 SFBC

THIS DESIGN IS FOR THE SOLE PURPOSE OF ILLUSTRATION & CONCEPT DESIGN. THIS FILE IS NOT TO BE USED FOR PRODUCTION AND/OR FABRICATION. THIS DESIGN IS THE SOLE PROPERTY OF HARBINGER AND MAY NOT BE USED OR DUPLICATED IN ANY FORM WITHOUT THE EXPRESS WRITTEN PERMISSION OF HARBINGER.

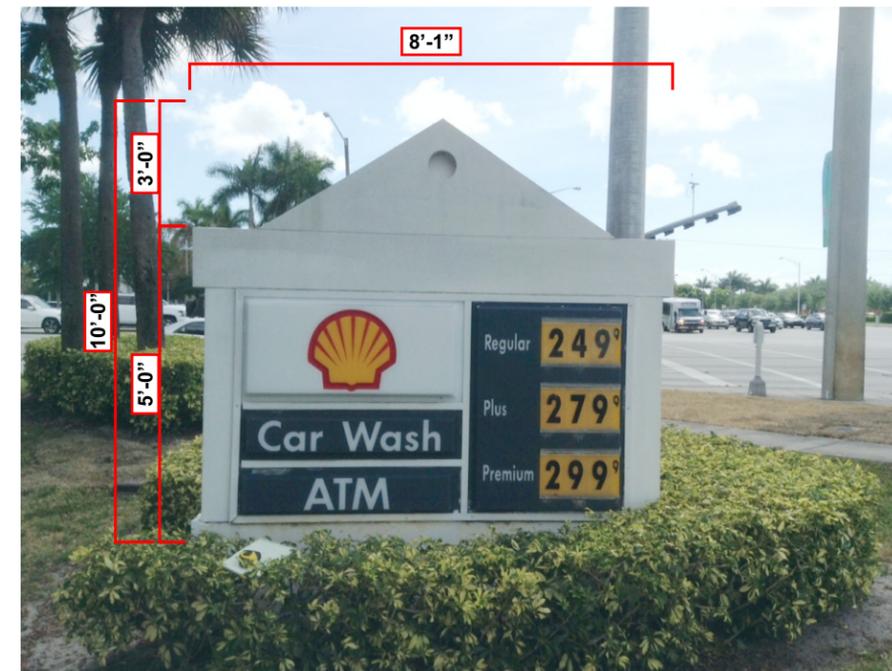


EXISTING CONDITION

**MONUMENT SIGN #1  
SIDE A**

EXISTING CONDITION

EXISTING INTERNALLY ILLUMINATED SIGN CABINET WITH 8" TALL MANUAL FONT GAS PRICER TO BE REMOVED AND DISCARDED.



EXISTING CONDITION

**MONUMENT SIGN #1  
SIDE B**

EXISTING CONDITION



EXISTING CONDITION

**MONUMENT SIGN #2  
SIDE A**

EXISTING CONDITION

EXISTING INTERNALLY ILLUMINATED  
SIGN CABINET TO BE REMOVED  
AND DISCARDED.



EXISTING CONDITION

**MONUMENT SIGN #2  
SIDE B**

EXISTING CONDITION

**Manufacture & Install**

05.04.15 : ORIGINAL CONCEPT  
09.23.15 : R1 - various - tb  
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05.25.17 : R7 - increased size of carwash signs - tb

Salesperson: RW

PM: JC

Designer: TB

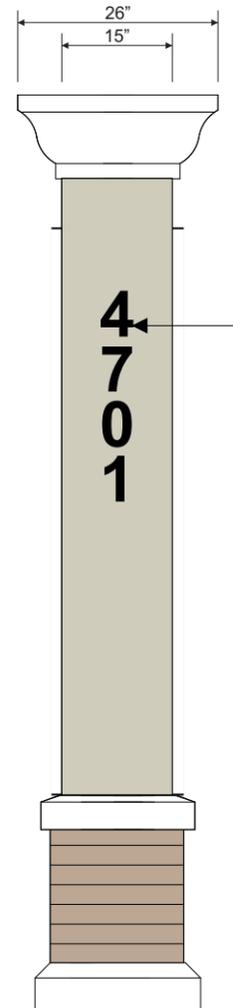
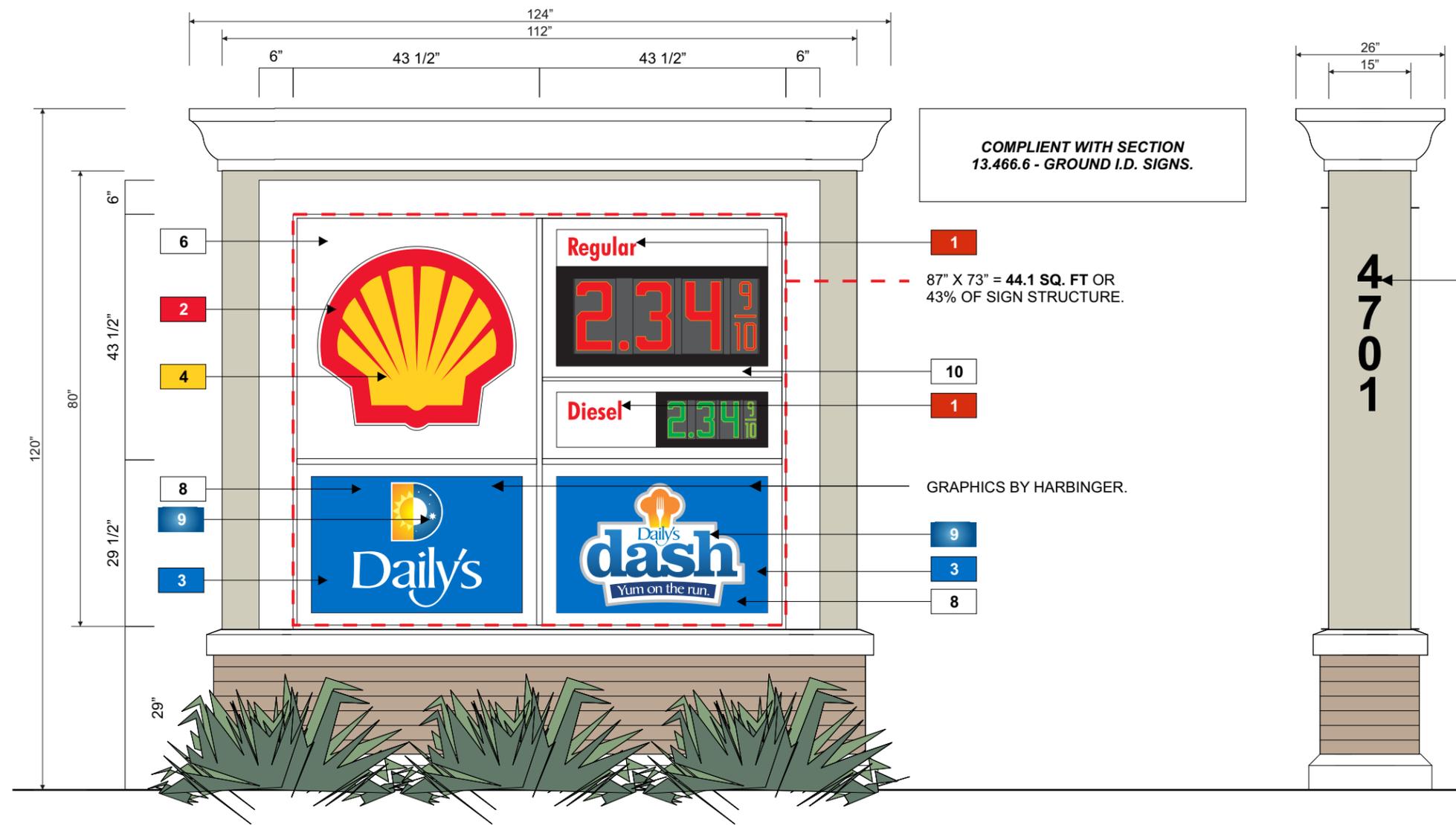
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customer approval

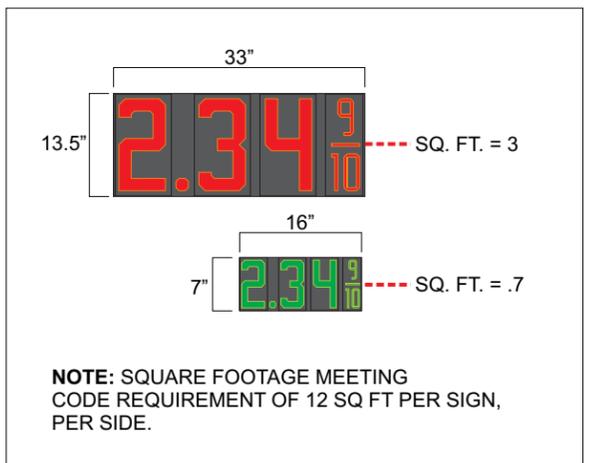
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COLOR / MATERIALS SCHEDULE	
1	PMS 485C RED
2	PMS 185C RED
3	PMS 300C BLUE
4	PMS 116CV YELLOW
5	PMS 294C DARK BLUE
6	OPAQUE WHITE
7	GRAY B20-4011
8	WHITE ACRYLIC
9	DIGITAL PRINT
10	JONES BLAIR #45966 (WHITE)
11	MATTHEWS SM-4764S (SILVER)

**NOTE: SIGNS WILL ILLUMINATE BUT WILL NOT HAVE ANY OBTRUSIVE GLARE OR BRIGHT GLARE**



6" TALL ROUTED ALUMINUM ADDRESS NUMBERS FLUSH MOUNTED TO STREET SIDE OF MONUMENTS. PAINT SATIN BLACK.



**NOTE: SQUARE FOOTAGE MEETING CODE REQUIREMENT OF 12 SQ FT PER SIGN, PER SIDE.**

MANUFACTURE AND INSTALL EIGHT (8) SETS OF TRANSLUCENT GRAPHICS FOR 2 DOUBLE SIDED MONUMENTS.

**NOTE: MONUMENT STRUCTURE, CABINETS AND LANDSCAPING BY OTHERS.**

A.1 A.2

Front Elevation - Internally Illuminated Monument Signs  
1/2" = 1'-0"

Display Square Footage: 103.3 (EACH SIGN)



5300 SHAD ROAD, JACKSONVILLE, FL. 32257 904.268.4681



FCEI79-R7 #1810 Coconut Creek, FL DRC REVIEW

F:\First Coast Energy - (Daily's)\ART\Art CDR  
FFCEI79-R7 #1810 Coconut Creek, FL DRC REVIEW.cdr

Manufacture & Install  
05.04.15 : ORIGINAL CONCEPT  
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02.06.17 : R6 - added enter/exit to carwash - tb  
05.25.17 : R7 - increased size of carwash signs - tb

Salesperson: RW PM: JC Designer: TB Page: 4  
customer approval date:



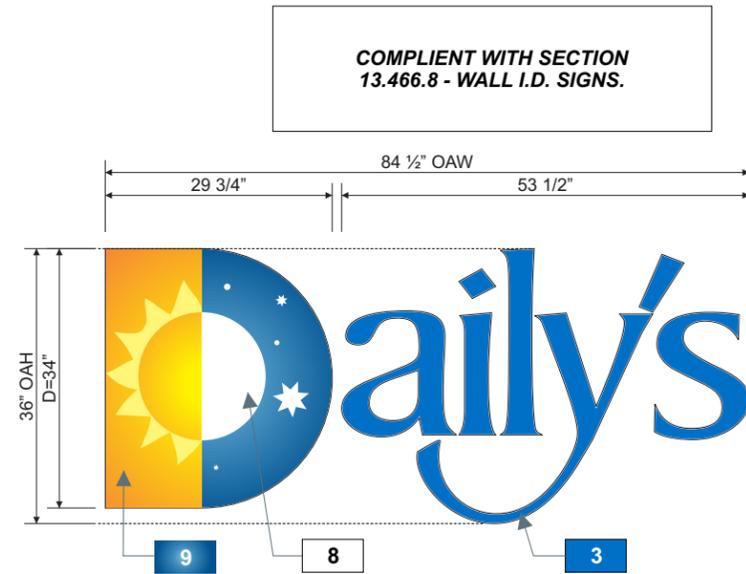
Complies with UL 48 CSA C22.2 No.207

THE SIGNS ON THESE PAGES HAVE BEEN DESIGNED TO MEET OR EXCEED ALL APPLICABLE CODES OR REQUIREMENTS OF THE NEC-2011 AND OR THE 2010 FBC AND OR THE 2007 SFBC



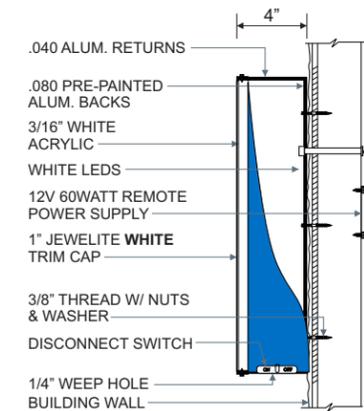
West Elevation - Custom 40" Remote Channel Letters  
3/32" = 1'-0"

Display Square Footage: 24



MANUFACTURE & INSTALL ONE (1) SET OF 36" INTERNALLY ILLUMINATED REMOTE CHANNEL LETTERS. LETTER "D" 3/16" THICK WHITE ACRYLIC FACE W/ DIGITALLY PRINTED GRAPHICS ON IJ180C-10 & LAMINATED W/ 8520. GRAPHICS APPLIED FIRST SURFACE. LETTERS "aily's" 3/16" THICK WHITE ACRYLIC FACES W/ 3M 3630-127 TRANSLUCENT VINYL GRAPHICS APPLIED FIRST SURFACE. 4" DEEP ALUMINUM RETURNS PRE-PAINTED PMS 300. LETTERS TO BE INTERNALLY ILLUMINATED W/ WHITE LEDS. ENTIRE LETTER SET TO HAVE 1" WHITE TRIM CAP.

**NOTE: ELEVATION SHOWN IS FOR ESTIMATING PURPOSES ONLY. NOT ACTUAL ELEVATION VIEW.**



**NOTE: SIGNS WILL ILLUMINATE BUT WILL NOT HAVE ANY OBTRUSIVE GLARE OR BRIGHT GLARE**

**C** Front Elevation & Side Mounting View - Custom 40" Remote Channel Letters  
1/2" = 1'-0"

Display Square Footage: 24

COLOR / MATERIALS SCHEDULE	
1	PMS 485C RED
2	PMS 185C RED
3	PMS 300C BLUE
4	PMS 116CV YELLOW
5	PMS 294C DARK BLUE
6	OPAQUE WHITE
7	GRAY B20-4011
8	WHITE ACRYLIC
9	DIGITAL PRINT
10	JONES BLAIR #45966 (WHITE)
11	MATTHEWS SM-4764S (SILVER)

**harbinger**  
sign of the future

5300 SHAD ROAD, JACKSONVILLE, FL. 32257 904.268.4681



#1810  
4701 W. Sample Rd.  
Coconut Creek, FL 33073

FCEI79-R7 #1810 Coconut Creek, FL DRC REVIEW

F:\First Coast Energy - (Daily's)\ART\Art CDR  
FFCEI79-R7 #1810 Coconut Creek, FL DRC REVIEW.cdr

**Manufacture & Install**

05.04.15 : ORIGINAL CONCEPT  
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01.18.17 : R5 - reduced front c/l. removed gas canopy - tb  
02.06.17 : R6 - added enter/exit to carwash - tb  
05.25.17 : R7 - increased size of carwash signs - tb

Salesperson: RW

PM: JC

Designer: TB

Page: 5

customer approval

date:



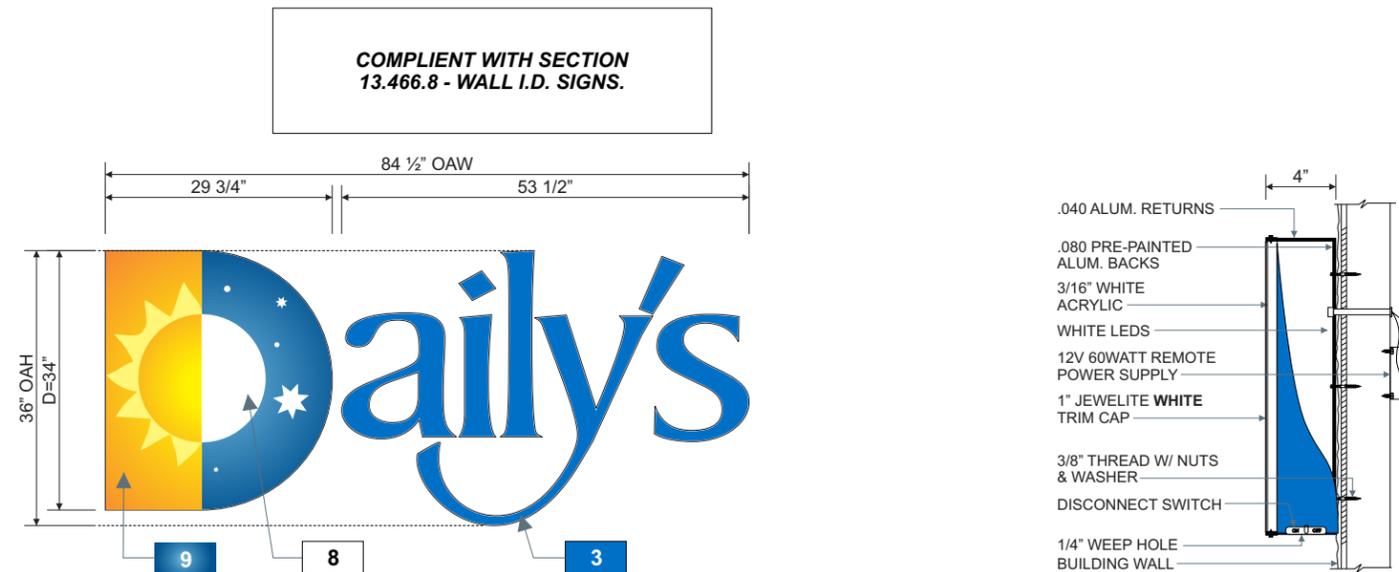
Complies with  
UL 48  
CSA C22.2 No.207

THE SIGNS ON THESE PAGES HAVE BEEN DESIGNED TO MEET OR EXCEED ALL APPLICABLE CODES OR REQUIREMENTS OF THE NEC-2011 AND OR THE 2010 FBC AND OR THE 2007 SFBC



East Elevation - **Custom 40" Remote Channel Letters**  
 3/32" = 1'-0"

Display Square Footage: **24**



COMPLIANT WITH SECTION  
 13.466.8 - WALL I.D. SIGNS.

**NOTE: SIGNS WILL ILLUMINATE  
 BUT WILL NOT HAVE ANY OBTRUSIVE  
 GLARE OR BRIGHT GLARE**

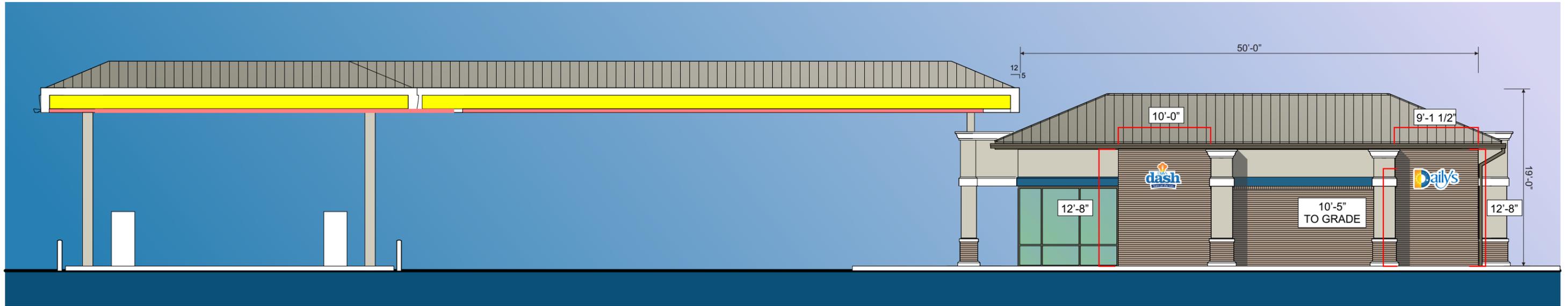
MANUFACTURE & INSTALL ONE (1) SET OF 36" INTERNALLY ILLUMINATED REMOTE CHANNEL LETTERS.  
 LETTER "D" 3/16" THICK WHITE ACRYLIC FACE W/ DIGITALLY PRINTED GRAPHICS ON **IJ180C-10** & LAMINATED  
 W/ **8520**. GRAPHICS APPLIED FIRST SURFACE.  
 LETTERS "aily's" 3/16" THICK WHITE ACRYLIC FACES W/ **3M 3630-127** TRANSLUCENT VINYL GRAPHICS  
 APPLIED FIRST SURFACE. 4" DEEP ALUMINUM RETURNS PRE-PAINTED **PMS 300**.  
 LETTERS TO BE INTERNALLY ILLUMINATED W/ WHITE LEDS.  
 ENTIRE LETTER SET TO HAVE 1" **WHITE** TRIM CAP.

**NOTE: ELEVATION SHOWN IS FOR ESTIMATING PURPOSES ONLY. NOT ACTUAL ELEVATION VIEW.**

**C** Front Elevation & Side Mounting View - **Custom 40" Remote Channel Letters**  
 1/2" = 1'-0"

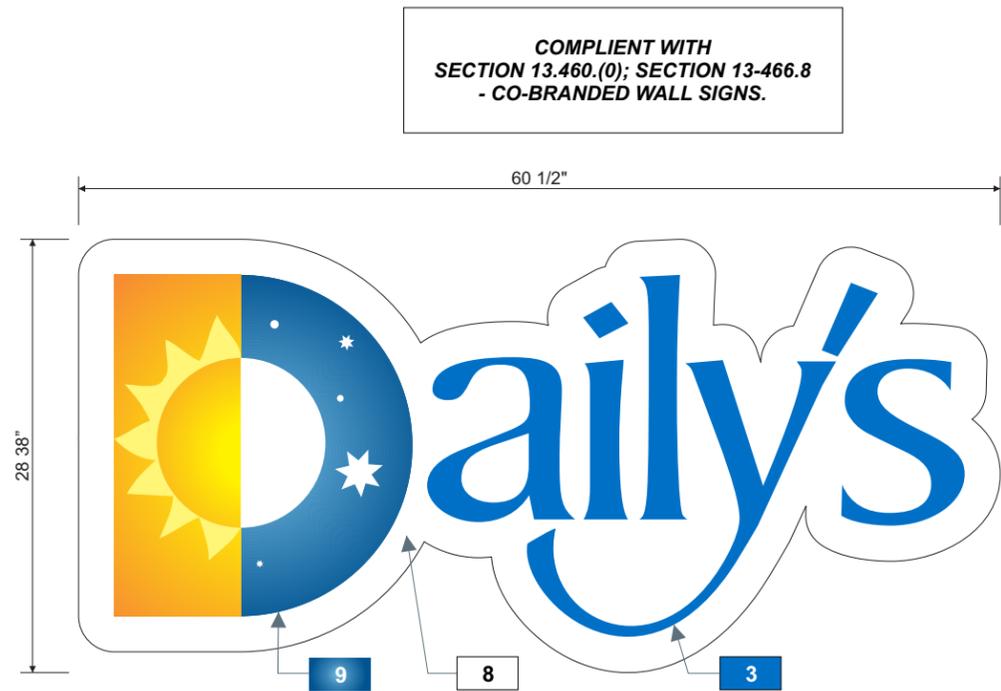
Display Square Footage: **24**

COLOR / MATERIALS SCHEDULE	
<b>1</b>	PMS 485C RED
<b>2</b>	PMS 185C RED
<b>3</b>	PMS 300C BLUE
<b>4</b>	PMS 116CV YELLOW
<b>5</b>	PMS 294C DARK BLUE
<b>6</b>	OPAQUE WHITE
<b>7</b>	GRAY B20-4011
<b>8</b>	WHITE ACRYLIC
<b>9</b>	DIGITAL PRINT
<b>10</b>	JONES BLAIR #45966 (WHITE)
<b>11</b>	MATTHEWS SM-4764S (SILVER)



South Elevation - Illuminated Contour Cabinet Sign  
 3/32" = 1'-0"

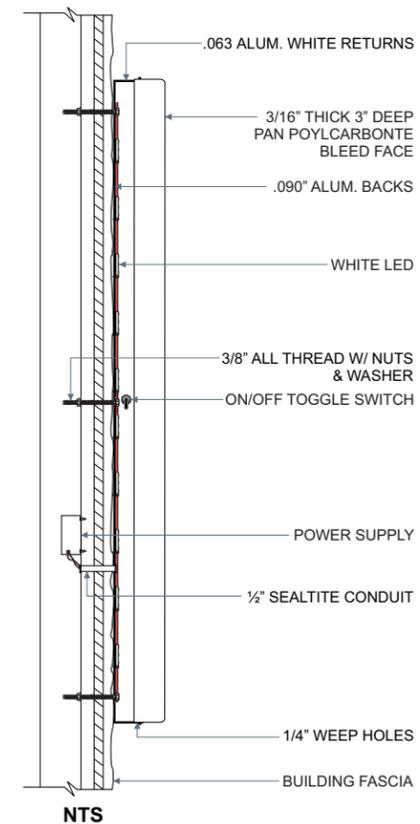
Display Square Footage: 26.18



COMPLIANT WITH  
 SECTION 13.460.(0); SECTION 13-466.8  
 - CO-BRANDED WALL SIGNS.

MANUFACTURE & INSTALL ONE (1) CUSTOM S/F INTERNALLY ILLUMINATED WALL SIGN.  
 3/16" THICK PAN FORMED 3M 3630-127 TRANSLUCENT VINYL GRAPHICS APPLIED FIRST SURFACE.  
 4" DEEP .063" ALUMINUM RETURNS PAINTED PMS WHITE. FACE TO BE MECHANICALLY ATTACHED ONTO RETURN.  
 SIGN TO BE INTERNALLY ILLUMINATED W/ WHITE LEDS.

VINYL SPECS: 3M 3630-20 WHITE, 3M 8520 (LAMINATE)

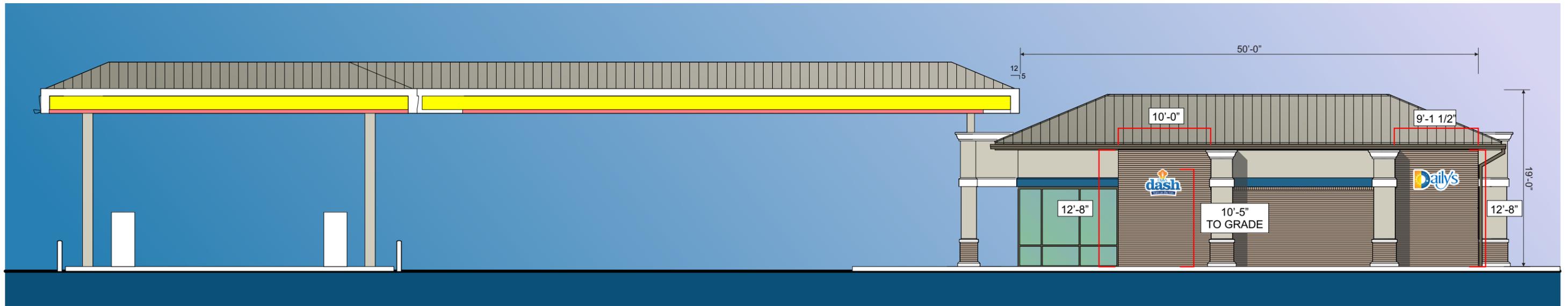


NOTE: SIGNS WILL ILLUMINATE BUT WILL NOT HAVE ANY OBTRUSIVE GLARE OR BRIGHT GLARE

COLOR / MATERIALS SCHEDULE	
1	PMS 485C RED
2	PMS 185C RED
3	PMS 300C BLUE
4	PMS 116CV YELLOW
5	PMS 294C DARK BLUE
6	OPAQUE WHITE
7	GRAY B20-4011
8	WHITE ACRYLIC
9	DIGITAL PRINT
10	JONES BLAIR #45966 (WHITE)
11	MATTHEWS SM-4764S (SILVER)

D Front Elevation & Side Mounting View - Illuminated Contour Cabinet Sign  
 1" = 1'-0"

Display Square Footage: 11.9



South Elevation - Illuminated Contour Cabinet Sign  
3/32" = 1'-0"

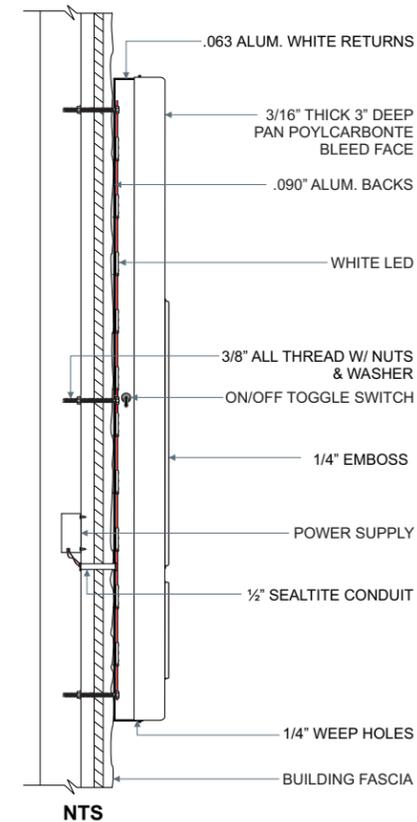
Display Square Footage: 11.6



MANUFACTURE & INSTALL ONE (1) CUSTOM S/F INTERNALLY ILLUMINATED WALL SIGN.  
3/16" THICK PAN FORMED & EMBOSSED POLYCARBONATE FACE W/ DIGITALLY PRINTED 3M 3630-20 WHITE VINYL & 3M 8520 LAMINATE APPLIED FIRST SURFACE. "DASH" & "YUM ON THE RUN" TO BE 1/4" EMBOSSED. 4" DEEP .063" ALUMINUM RETURNS PAINTED PMS WHITE. FACE TO BE MECHANICALLY ATTACHED ONTO RETURN. SIGN TO BE INTERNALLY ILLUMINATED W/ WHITE LEDS.

VINYL SPECS: 3M 3630-20 WHITE, 3M 8520 (LAMINATE)

**E** Front & Side Detail - Illuminated Contour Cabinet Sign  
1 1/2" = 1'-0"



**NOTE: SIGNS WILL ILLUMINATE BUT WILL NOT HAVE ANY OBTRUSIVE GLARE OR BRIGHT GLARE**

COLOR / MATERIALS SCHEDULE	
1	PMS 485C RED
2	PMS 185C RED
3	PMS 300C BLUE
4	PMS 116CV YELLOW
5	PMS 294C DARK BLUE
6	OPAQUE WHITE
7	GRAY B20-4011
8	WHITE ACRYLIC
9	DIGITAL PRINT
10	JONES BLAIR #45966 (WHITE)
11	MATTHEWS SM-4764S (SILVER)

**harbinger**  
sign of the future

5300 SHAD ROAD, JACKSONVILLE, FL. 32257 904.268.4681

**Daily's**  
#1810  
4701 W. Sample Rd.  
Coconut Creek, FL 33073

FCEI79-R7 #1810 Coconut Creek, FL DRC REVIEW

F:\First Coast Energy - (Daily's)\ART\Art CDR  
FCEI79-R7 #1810 Coconut Creek, FL DRC REVIEW.cdr

**Manufacture & Install**

05.04.15 : ORIGINAL CONCEPT  
09.23.15 : R1 - various - tb  
10.28.15 : R2 - carwash size - tb  
04.29.16 : R3 - added "Daily's" c/l to back - tb  
10.14.15 : R4 - "Daily's" c/l chg. to cabinet - tb  
01.18.17 : R5 - reduced front c/l. removed gas canopy - tb  
02.06.17 : R6 - added enter/exit to carwash - tb  
05.25.17 : R7 - increased size of carwash signs - tb

Salesperson: RW

PM: JC

Designer: TB

Page: 8

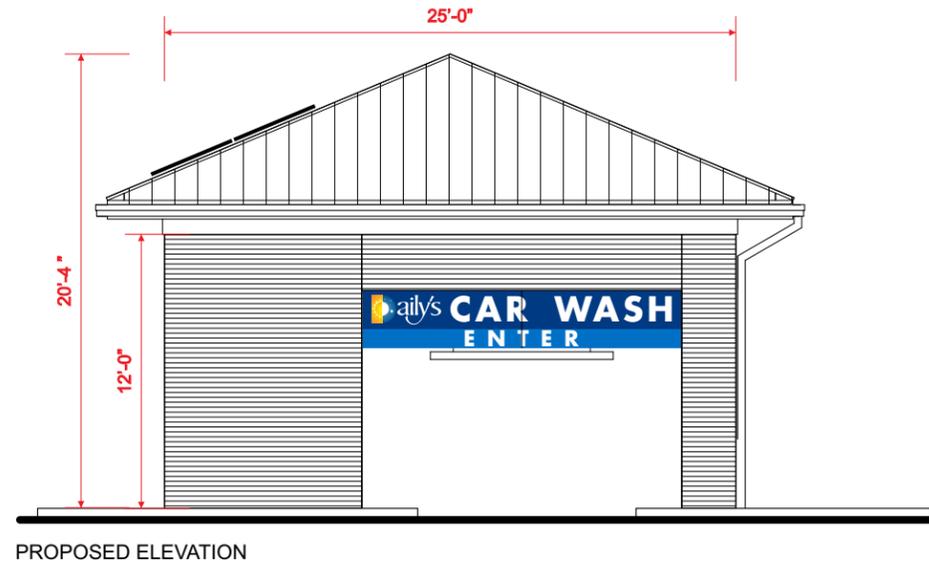
customer approval

date:



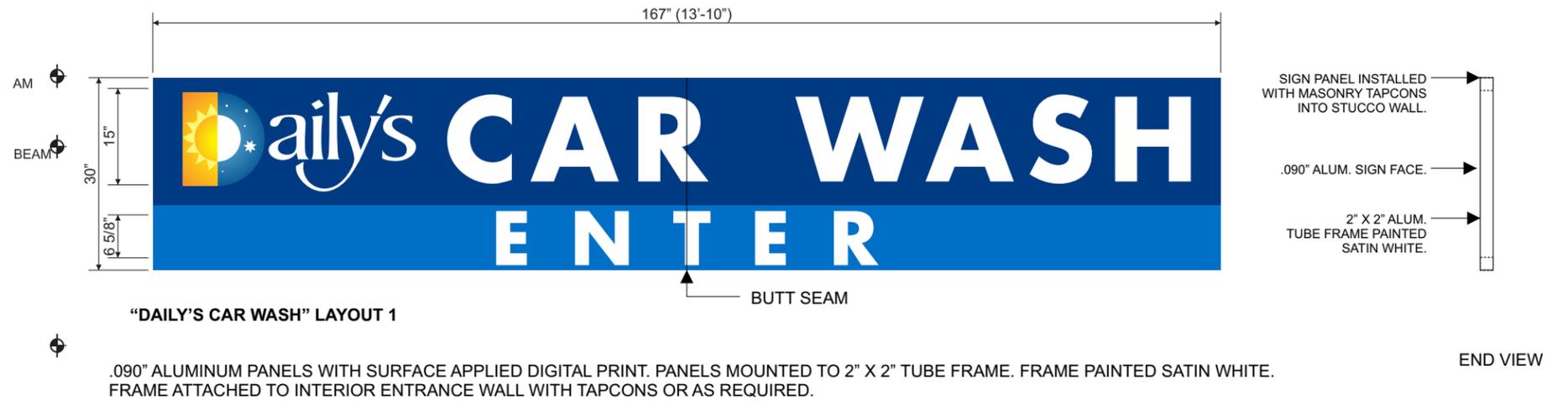
Complies with  
UL 48  
CSA C22.2 No.207

THE SIGNS ON THESE PAGES HAVE BEEN DESIGNED TO MEET OR EXCEED ALL APPLICABLE CODES OR REQUIREMENTS OF THE NEC-2011 AND OR THE 2010 FBC AND OR THE 2007 SFBC



East Entrance Elevation - Photo Overlay  
 1/8" = 1'-0"

Display Square Footage: 34.8

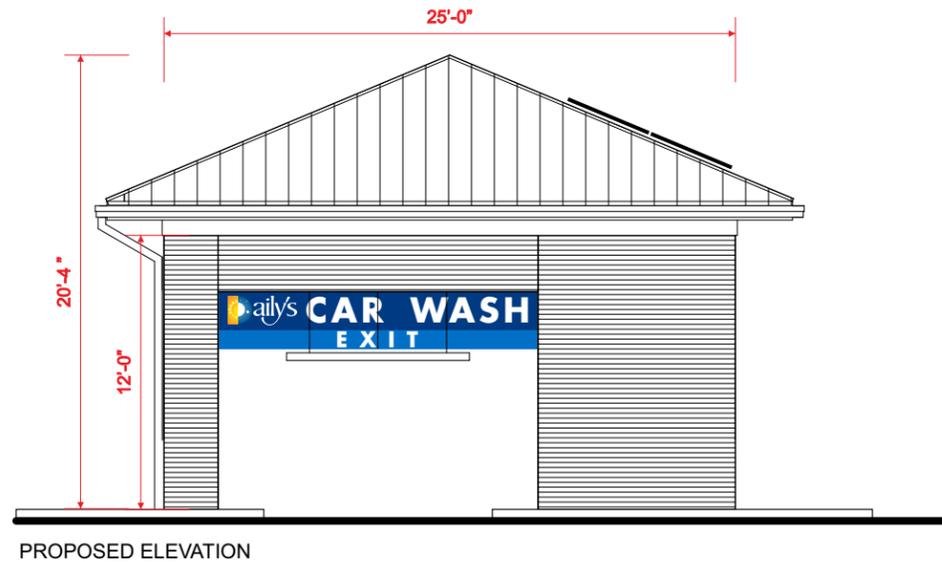


"DAILY'S CAR WASH" LAYOUT 1

.090" ALUMINUM PANELS WITH SURFACE APPLIED DIGITAL PRINT. PANELS MOUNTED TO 2" X 2" TUBE FRAME. FRAME PAINTED SATIN WHITE. FRAME ATTACHED TO INTERIOR ENTRANCE WALL WITH TAPCONS OR AS REQUIRED.

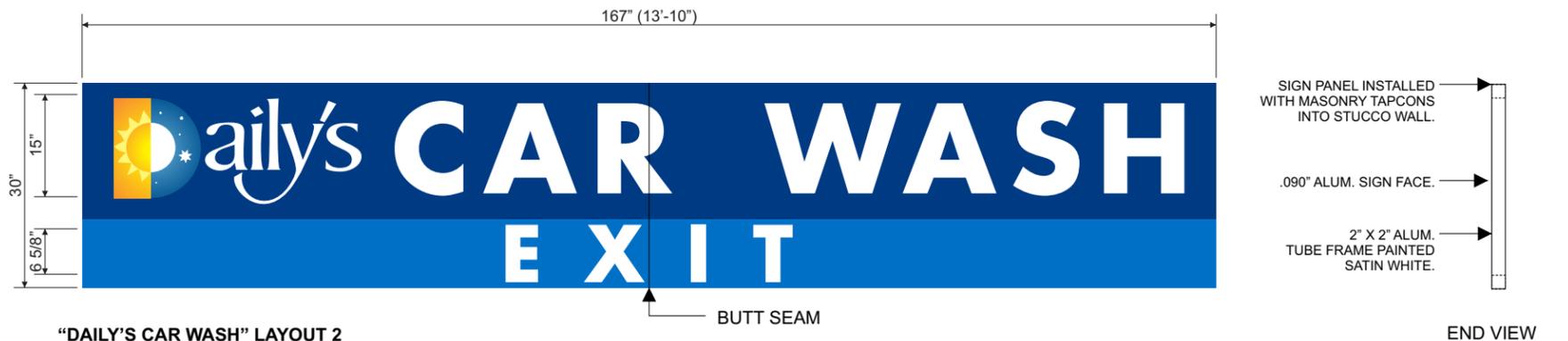
G.1 Front Elevation - Single Sided Entrance Sign  
 1/2" = 1'-0"

Display Square Footage: 34.8



West Exit Elevation - Photo Overlay  
 1/8" = 1'-0"

Display Square Footage: 34.8



"DAILY'S CAR WASH" LAYOUT 2

.090" ALUMINUM PANELS WITH SURFACE APPLIED DIGITAL PRINT. PANELS MOUNTED TO 2" X 2" TUBE FRAME. FRAME PAINTED SATIN WHITE. FRAME ATTACHED TO INTERIOR ENTRANCE WALL WITH TAPCONS OR AS REQUIRED.

G.2 Front Elevation - Single Sided Entrance Sign  
 1/2" = 1'-0"

Display Square Footage: 34.8





## LANDSCAPE GENERAL NOTES

### A. SCOPE OF WORK

1. THE WORK CONSISTS OF FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ALL OTHER APPLICABLE SUPPLIES 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 MISAPPEAR AND/OR UNSIGHTLY SHALL BE REPLACED AT THE COST TO THE CONTRACTOR AT 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, WHICH EVER IS GREATER. CALIPER SHALL BE MEASURED AT GREATEST 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 OTHERWISE DETERMINED BY THE OWNER. UPON APPROVAL OF SAMPLES, DELIVERY OF MATERIALS MAY BEGIN.  
**MATERIALS SAND 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 AND NUMBERS. 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, INSECT, AND 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) AROUND 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. THE SIZE, AND VARIETY, SUCH AS PLANTS ADJACENT TO BUILDINGS, 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 DISEASES OR INJURIES, AND OTHER CONDITIONS THAT MAY AFFECT THE NURSERY INSPECTION. IF HAND AND/OR WITH ALL DIMENSIONS AND/OR SIZES SPECIFIED SHALL BE THE MINIMUM ACCEPTABLE SIZE.
  - 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 BERTLE, FRAGILE, 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 ORGANIC MATTER AND SHALL BE FREE FROM HEAVY, COARSE SAND, STONES, LIM, 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 RATIO 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 — COSMOCOTE/SIERRA BLEND 14—14—14
  3. SOD — 8—8—8

IN ADDITION TO SURFACE APPLIED FERTILIZERS, ALL CONTAINER GROWN AND FIELD GROWN PLANT MATERIALS SHALL RECEIVE AGRIFORM PLANTING TABLETS 24—40—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 THEIR 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 CYPRUS 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

ANTI—TRANSPIRANT PRODUCT (WILT—PRUF® 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 EITHER THE TRUNK OR BROKEN PLANTS BALLEDS OR BURLAPPED OR CONTAINER GROWN SHALL NOT BE HANDLED BY STEMS.

3. PLANTS MARKED "BP" 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 BY "GRADES AND STANDARDS FOR NURSERY PLANTS" FLORIDA PUBLICATION. PRUNING PRACTICES OTHER THAN MINIMAL PRUNING OF FRONDS, PRIMARILY TO REACH A "CLEAR TRUNK" SPECIFICATION, MAY CONSTITUTE REJECTION. OR ALL PALMS SUBJECT TO SUCH PRACTICE, LIKEWISE EXCESSIVE PRUNING OR "SHAVING" OF ROOTBALLS TO MEET "CLEAR TRUNK" CRITERIA MAY CONSTITUTE REJECTION ON SITE. 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 AND ARE IN A HEALTHY GROWING CONDITION, AND SHALL MEET MINIMUM SPECIFICATIONS IN THE PLANT LIST.
2. AN ESTABLISHED CONTAINER GROWN PLANT SHALL BE TRANSLANTED 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 BEEN SUCCESSFULLY REESTABLISHED IN A NURSERY ROW AND GROWN UNDER REGULAR NURSERY CULTURAL PRACTICES FOR A MINIMUM OF TWO (2) GROWING SEASONS AND HAVE DEVELOPED 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 BIDDING. 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, BEARING AS SHOWN ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR, UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL FINE GRADE LAWN AND PLANTING AREAS TO BRING THE ROUGH GRADE UP TO FINAL FINISHED GRADE ALLOWING FOR THICKNESS OF SOIL AND/OR MULCH DEPTH. THIS CONTRACTOR SHALL FINE GRADE BY HAND AND/OR WITH ALL DIMENSIONS AND/OR SIZES SPECIFIED SHALL BE THE MINIMUM ACCEPTABLE SIZE.
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 OBJECTS ONABLE MATTER, ALL PORTLAND CEMENT, AND TOXIC MATERIAL SHALL BE 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 THE VIABILITY OF THE PLANTS TO BE INSTALLED HEREIN, HE SHALL IMMEDIATELY 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 LIMESTOCK AND LIMESTOCK SUB—BASE FROM ALL LANDSCAPE PLANTING AREAS TO MINIMUM DEPTH OF APPROXIMATELY 20% GREATER THAN RECOMMENDED PLANTING SOIL DEPTH. CONTRACTOR SHALL BE RESPONSIBLE TO BACKFILL THESE PLANTING AREAS TO ROUGH FINISHED GRADE WITH CLEAN TOPSOIL FROM AN ON SITE SOURCE OR AN IMPORTED SOURCE. IF LIMESTOCK CONDITIONS OCCUR IN PLANTED AREAS AFTER 90° DEEP EXCAVATION, 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 USA STANDARD TO NURSERY STOCK 2801. UNLESS SHOWN OTHERWISE ON THE DRAWINGS, AND BACKFILLED WITH THE PREPARED PLANTING SOIL AS SPECIFIED HEREIN BEFORE SECTION (D). TEST ALL TREE FITS 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 PLUMBS AND HELD IN POSITION UNTIL THE PLANTING MIXTURE HAS BEEN FLOUSHED 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 SETTING 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. PLANTLARGER 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) SHALL STAND ONE (1) TO TWO (2) INCHES ABOVE THE PLANTS. 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 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 GUYSING 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 ARBORITE 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 NOTED.

16. SYSTEMIC HERBICIDE WEED CONTROL: ALL PLANT BEDS SHALL BE KEPT FREE OF NOXIOUS 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 FITS, TREAT ALL MULCHED AREAS WITH AN APPROVED PRE—EMERGENT HERBICIDE AT AN APPLICATION RATE RECOMMENDED BY THE MANUFACTURER.

### O. LAWN SODDING

1. STEWARDSHIP SCENARIO: V. FLORITAM UNLESS OTHERWISE NOTED. (ST. AUGUSTINE SOLID SOO).  
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 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. UTILIZE 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 SOO 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 TRUETO 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 UNPAVED 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. DISTURBED AREAS SHOULD BE REPAIRED FOR SUCH AREAS. WHEN THOROUGHLY IRRIGATED TO THOROUGHLY MOISTEN THE SOIL BENEATH. IF, IN THE OPINION OF THE OWNER, TOP DRESSING IS NECESSARY AFTER ROLLING TO FILL THE HOLES 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 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 BROKEN, SUNKEN OR BARE SPOTS UNTIL CERTIFICATION OF ACCEPTABILITY BY OWNER OR AS IN THE ORIGINAL WORK SCOPE AND PROGRAM INCLUDING REGRADING, IF NECESSARY.
- b) WATER EVERY DAY FOR FOURTEEN (14) SUCCESSIVE DAYS, THEN WATER THREE (3) TIMES PER WEEK (AT EVEN INTERVALS) UNTIL SOIL MOISTURE IS SUFFICIENT TO 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 FOR 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 ELEMETS THE OWNER ELEMENTS MAY BE GIVEN A PERIOD OF NINETY (90) DAYS BEFORE REMOVAL TO ALLOW THE CONTRACTOR TO RESUBMIT 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 ACCEPTANCE BY THE OWNER. SHOULD REPLACEMENT MATERIAL FAIL WITHIN THE GUARANTEE PERIOD, OWNER MAY OPT FOR A CREDIT OF THE MONETARY AMOUNT FOR THE REPLACEMENT.

MATERIALS, AT A RATE OF THE ORIGINAL CONTRACT BID RATE, IN LIEU OF AN ADDITIONAL REPLACEMENT.

4. IN THE EVENT THE OWNER ELECTS NOT TO CONTRACT WITH THE CONTRACTOR FOR LANDSCAPE AND IRRIGATION MAINTENANCE, THE CONTRACTOR IS ENCOURAGED TO VISIT THE PROJECT SITE PERIODICALLY DURING THE ONE (1) YEAR WARRANTY PERIOD TO EVALUATE MAINTENANCE PROCEDURES BEING PERFORMED. SUGGESTED SUCH SITE VISITS SHALL BE CONDUCTED A MINIMUM OF ONCE PER MONTH FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF ACCEPTANCE.

### T. FINAL INSPECTION AND ACCEPTANCE OF WORK

1. FINAL INSPECTION BY OWNER OR THEIR DESIGNEE AT THE END OF THE GUARANTEE PERIOD SHALL INCLUDE PLANTING, CONSTRUCTION AND ALL OTHER INCIDENTAL WORK PERTAINING TO THIS CONTRACT. ANY PLANTS NOT MEETING THE CRITERIA OF HEALTHY, VIGOROUS, AND THRIVING AT THIS TIME, AND THAT HAVE NOT ALREADY BEEN REPLACED PREVIOUSLY UNDER SAID WARRANTY, SHALL BE SUBJECT TO THE SAME ONE (1) YEAR GUARANTEE (OR AS SPECIFIED BY THE OWNER IN WRITING) BEGINNING WITH THE TIME OF REPLACEMENT AND ENDING WITH THE SAME INSPECTION AND ACCEPTANCE HEREIN DESCRIBED.

### U. GRADING & DRAINAGE NOTES

1. PRIOR TO COMMENCING ANY EXCAVATION WORK, THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN ACCORDANCE WITH THE "DIG SAFE" NOTIFICATION PROCEDURES PROMOTED BY THE RESPECTIVE UTILITY COMPANIES IN FLORIDA, CALL FLORIDA SUNSHINE AT 811.

2. CONTRACTOR SHALL BLEND NEW EARTH—WORK SMOOTHLY INTO EXISTING, PROVIDING VERTICAL CURVES OR ROUNDINGS AT ALL TOP AND BOTTOM OF SLOPES.

3. PITCH ELEVATION BETWEEN SPOT GRADES, ALL PAVED AREAS MUST PITCH TO DRAIN TOWARD THE STREET OR TO A DRAINAGE POINT. PER FOOT, ANY DISCREPANCIES NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO THE OWNER PRIOR TO CONTINUING WORK.

4. WHERE NEW PAVING OR EARTHWORK MEETS EXISTING PAVING OR EARTHWORK, SMOOTHLY BLEND LINE AND GRADE OF EXISTING WITH NEW, WHERE EXISTING VEGETATION IS TO BE REMOVED, DO NOT FILL ABOVE BASAL FLARE OF EXISTING TREES.

### V. UTILITY PLAN NOTES

1. CONTRACTOR SHALL INSTALL SCHEDULE 40 PVC CONDUIT (SLEEVES) FOR ALL IRRIGATION PIPING UNDER ALL PAVEMENT AREAS TO CONNECT ALL LANDSCAPE AREAS.

### W. SITE PREPARATION

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL MEET THE OWNER AND IDENTIFY TREES AND SHRUBS WHICH ARE TO BE PROTECTED AS WELL AS THOSE WHICH ARE TO BE REMOVED. DO NO CONSTRUCTION WITHOUT A CLEAR UNDERSTANDING OF EXISTING CONDITIONS TO BE PRESERVED.

2. TREES AND SHRUBS TO REMAIN SHALL BE PROTECTED BY THE INSTALLATION OF FENCING AT THE DRIP LINE OR AS DIRECTED BY THE OWNER (SEE LANDSCAPE DETAIL SHEET). PROTECTIVE FENCING SHALL BE INSTALLED PRIOR TO CONSTRUCTION. PROTECTIVE FENCING SHALL BE SUFFICIENT TO PREVENT CONSTRUCTION EQUIPMENT FROM COMPACTING SOIL AT THE ROOT ZONE AND DAMAGING TRUNKS AND BRANCHES.

3. IF, IN ORDER TO PERFORM EXCAVATION WORK, IT SHOULD BECOME NECESSARY TO CUT ROOTS OF PLANTS TO BE SAVED, SUCH ROOTS SHOULD BE CUT NEATLY WITH A SMOOTH CLEAN CUT BY A SHARP SAW, COVERED WITH BURLAP, AND KEPT MOIST UNTIL ROOTS ARE BACK FILLED. TEARS OR JAGGED CUTS TO ROOTS ARE UNACCEPTABLE.

4. TREE AND SHRUB REMOVAL SHALL INCLUDE THE FILLING, CUTTING, GRUBBING OUT OF ENTIRE ROOT SYSTEMS AND SATISFACTORY OFF—SITE DISPOSAL OF ALL TREES, SHRUBS, STUMPS, VEGETATIVE AND EXTRANEOUS DEBRIS PRODUCED BY THE REMOVAL OPERATIONS.

5. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE INSIDE AND OUTSIDE THE LIMITS OF CONSTRUCTION DUE TO HIS CONTRACT OPERATIONS.

6. ALL REFUSE, DEBRIS, UNSUITABLE MATERIALS AND MISCELLANEOUS MATERIALS TO BE REMOVED SHALL BE LEGALLY DISPOSED OF OFF—SITE BY CONTRACTOR.

7. ALL INVASIVE EXOTIC VEGETATION SHALL BE DISPOSED OF OR TREATED AS PER THE LOCAL OR REGIONAL GOVERNING AUTHORITIES, REQUIREMENTS OR RECOMMENDATIONS.

### X. ROOT CONTROL BARRIER

1. ROOT CONTROL PRODUCT SHALL BE A BIOLOGICAL BARRIER PRODUCT. PRODUCT SHALL BE 810—BARRIER ROOT CONTROL SYSTEM, AS MANUFACTURED BY BBA FIBREWEEDBARRI, INC. AND DISTRIBUTED BY HORT ENTERPRISES, INC. HORT ENTERPRISES, INC. P.O. BOX 2448 POMPANO BEACH, FL 33061 1—800—996—4678
2. PRODUCT SHALL BE A BIOLOGICAL BARRIER UTILIZING LIME—RELEASE CAPSULES INTEGRATED INTO A GEOTEXTILE FABRIC. ACTIVE HERBICIDE SHALL BE TRIFLURALIN, AND MINIMUM TIME RELEASE OF EFFECTIVE PRODUCT SHALL BE 1—5 YEARS IN THE MOST ADVERSE CONDITIONS FOR SUCH A PRODUCT.
3. PRODUCT SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS FOR ROOT CONTROL SYSTEMS.
4. USE PRODUCT WHERE TREES ARE WITHIN EIGHT FEET (8') OR LESS OF HARDSCAPE SURFACES INCLUDING CURBS, SIDEWALKS, STEPS, AND ROADWAYS.
5. SPECIFY 1.95" WIDTH OPTION.
6. WHERE CONDITIONS REQUIRE PRODUCT AS SET FORTH IN NO. 4 ABOVE, USE PRODUCT AT LEAST TEN FEET (10') IN EITHER DIRECTION FROM THE CENTER OF TRUNK ALONG LINEAR FEATURES SUCH AS CURBS, WALKWAYS, ETC. THE INTENT OF THIS SPECIFICATION IS TO PROVIDE A ROOT CONTROL SYSTEM WHERE ROOTS WOULD LIKELY CAUSE PHYSICAL DAMAGE TO ADJACENT HARDSCAPE SURFACES, FOUNDATIONS, OR OTHER ELEMENTS THAT MAY RECEIVE DAMAGE FROM ROOT SYSTEMS OF TREES.
7. SEE WWW.BIOPROTECT.COM FOR ADDITIONAL INFORMATION AND PRODUCT SPECIFICATION.

### Y. IRRIGATION

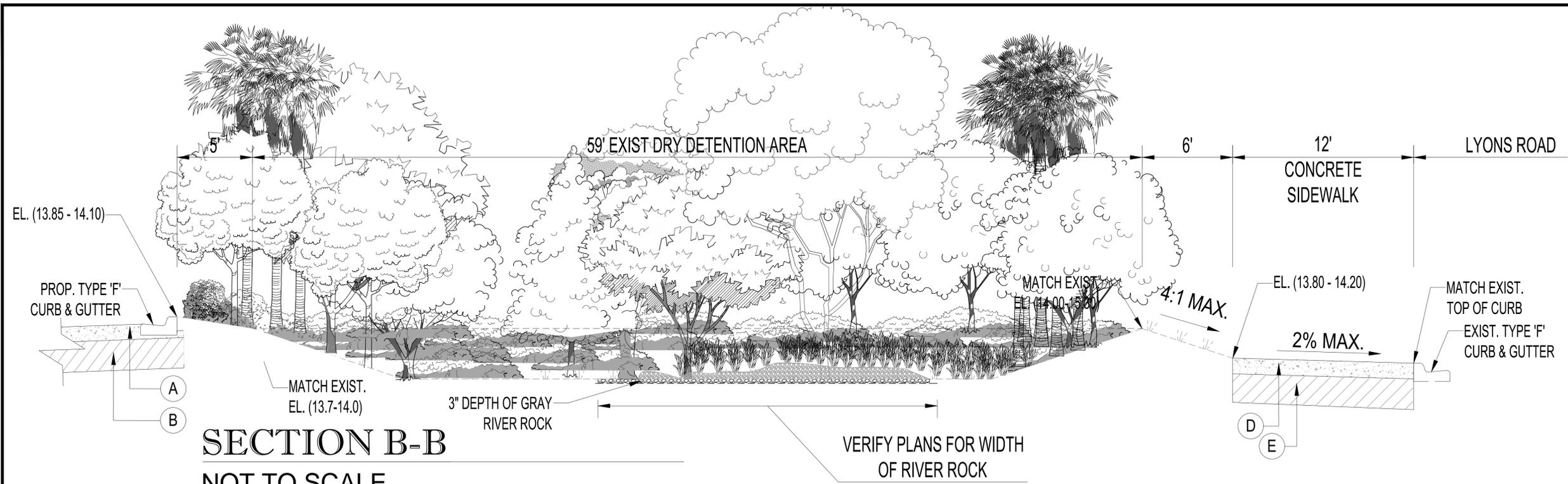
1. CONTRACTOR TO PROVIDE AN IRRIGATION DESIGN FOR BOTH LAWN AND BED AREAS. DESIGN TO BE SUBMITTED TO PROJECT LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL. CONTRACTOR TO VERIFY STATIC PRESSURE PRIOR TO DESIGN. CONTRACTOR IS RESPONSIBLE FOR ANY PRESSURE REDUCING DEVICES REQUIRED TO MEET PRESSURE REQUIREMENTS. SYSTEM DESIGN TO SHOW ALL VALVES, PIPING, HEADS, BACKFLOW PREVENTION, METERS, AND CONTROLLERS. ALL SLEEVES IN PAVEMENT AREAS MUST BE SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BACKFLOW PREVENTION DEVICE INSTALLATION AND PERMITTING. CONTRACTOR SHALL NOT INSTALL IRRIGATION IN RIGHT—OF—WAY UNLESS REQUIRED BY CITY. NETAFIM DRIPIRRIGATION TO BE INSTALLED IMMEDIATELY AROUND BUILDINGS TO PREVENT WATER SPRAY ON BUILDING, WALKS, AND WINDOWS. NETAFIM PIPING TO BE BURIED, SIFT BENEATH SOIL SURFACE AND COVERED INSTALLED BY AN OWNER APPROVED CONTRACTOR.
2. DESIGNED SYSTEM SHALL CONSIST OF AN AUTOMATIC, UNDERGROUND IRRIGATION SYSTEM PROVIDING 100% COVERAGE WITH 100% OVERLAP, AND CONTAINING A RAIN SENSOR INSTALLED BY AN OWNER APPROVED CONTRACTOR. THIS SYSTEM SHALL BE INSTALLED AND OPERATIONAL WITHIN TEN (10) DAYS OF THE INITIAL LANDSCAPE INSTALLATION.

### SITE NOTES

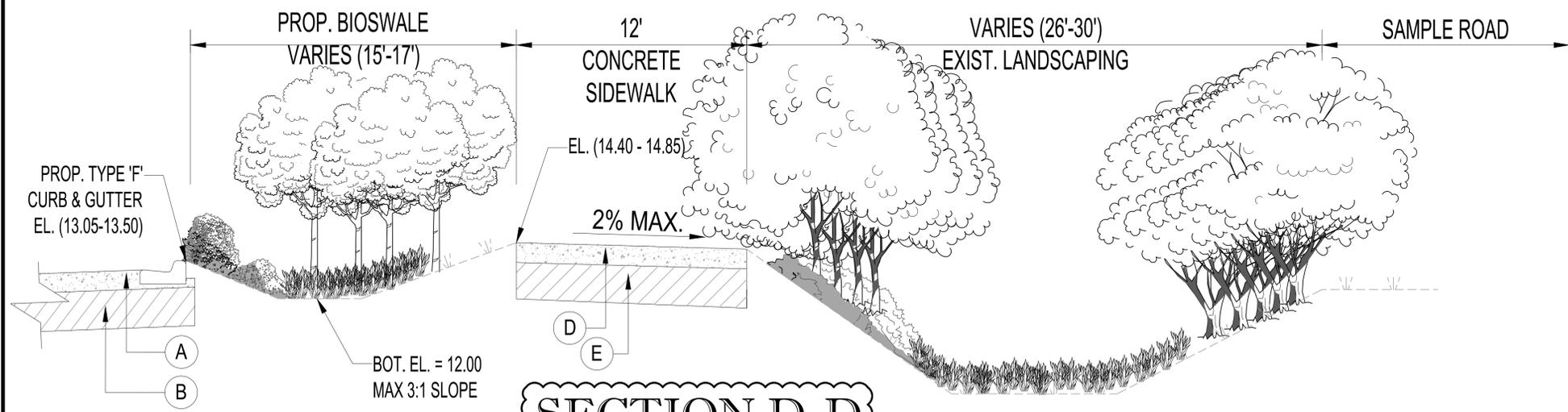
1. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES IN THE SITE SURVEY TO THE OWNER PRIOR TO STARTING WORK.

### GENERAL PLANTING NOTES

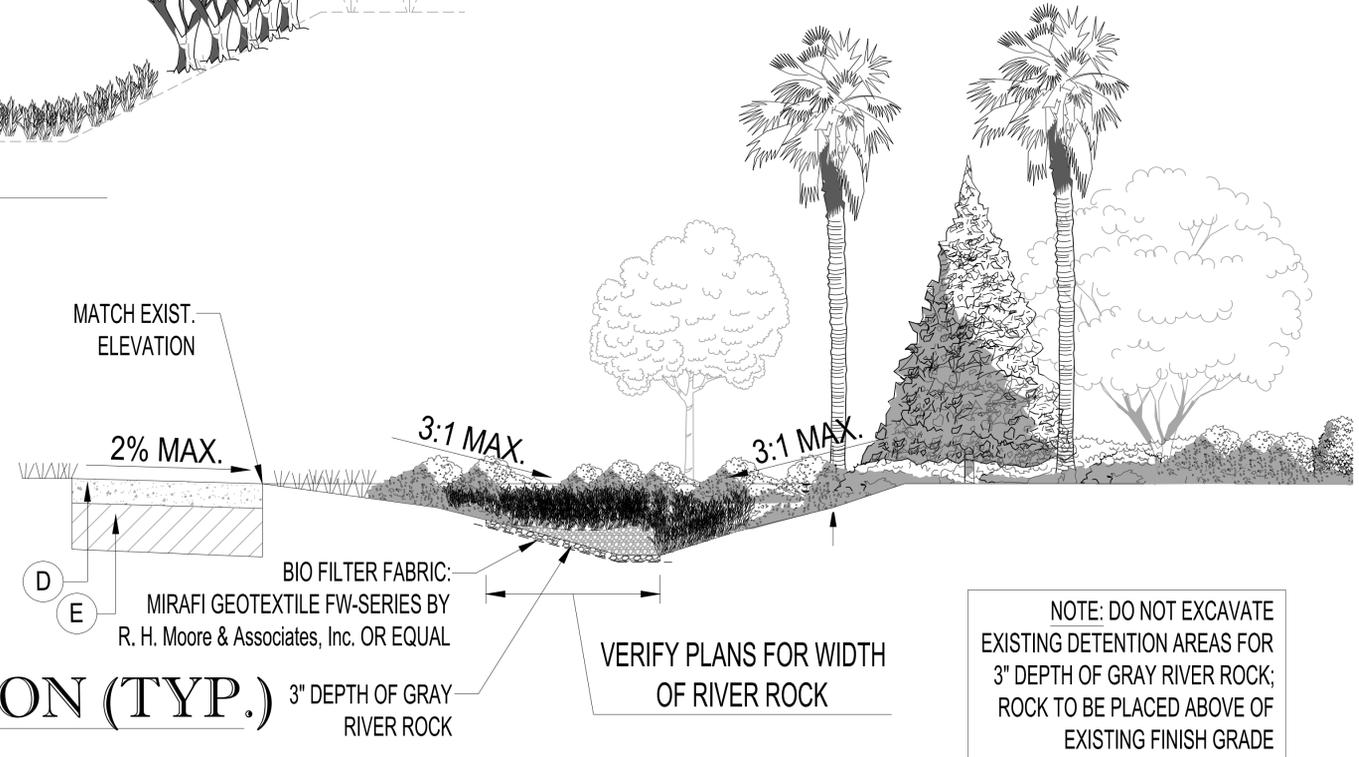
1. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THIS DRAWING.
2. ALL BIODEGRADABLE BURLAP SHALL BE UNTIED AND PULLED DOWN TO EXPOSE THE TOP 1" OF THE BALL. WIRE BASKETS AND OTHER NON—BIODEGRADABLE MATERIALS ATTACHED TO PLANTS SHALL BE REMOVED PRIOR TO PLANTING. CARE SHALL BE TAKEN NOT TO BREAK OR DISTURB ROOT BALL OF PLANTS.
3. ALL PLANTS SHALL BE WATERED BY HAND IN SUFFICIENT QUANTITIES TO THOROUGHLY WET ENTIRE ROOT SYSTEM IMMEDIATELY AFTER PLANTING.
4. PLANTS SHALL BE GUARANTEED TO A PERIOD OF ONE (1) YEAR AFTER ACCEPTANCE OF THE PROJECT AND SHALL BE VIGOROUS AND THR



**SECTION B-B**  
NOT TO SCALE



**SECTION D-D**  
NOT TO SCALE



**BIOSWALE SECTION (TYP.)**  
NOT TO SCALE

NOTE: DO NOT EXCAVATE EXISTING DETENTION AREAS FOR 3" DEPTH OF GRAY RIVER ROCK; ROCK TO BE PLACED ABOVE OF EXISTING FINISH GRADE

**THOMAS**  
ENGINEERING GROUP

CIVIL ENGINEERS - PROJECT MANAGERS - LAND PLANNING - LANDSCAPE ARCHITECTS

1000 CORPORATE DR. FORT LAUDERDALE, FL 33334  
4950 W. KENNEDY BLVD. FT. WORTH, TX 76102  
125 W. INDIANTOWN RD. JUPITER, FL 33488  
P: 954-202-7000 P: 813-379-4100 P: 951-203-7603

REV.	DATE	REVISIONS	BY
1	09/28/16	PER DRC COMMENTS	MDG

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PROJECT No.:	F140198
DRAWN BY:	RJK
CHECKED BY:	MGD
DATE:	07/14/2015
CAD I.D.:	LANDSCAPE PLAN

PROJECT:

**SHELL / DAILY'S C-STORE No. 1810**

FOR

**FIRST COAST ENERGY**

CITY OF COCONUT CREEK FLORIDA

**THOMAS**  
ENGINEERING GROUP

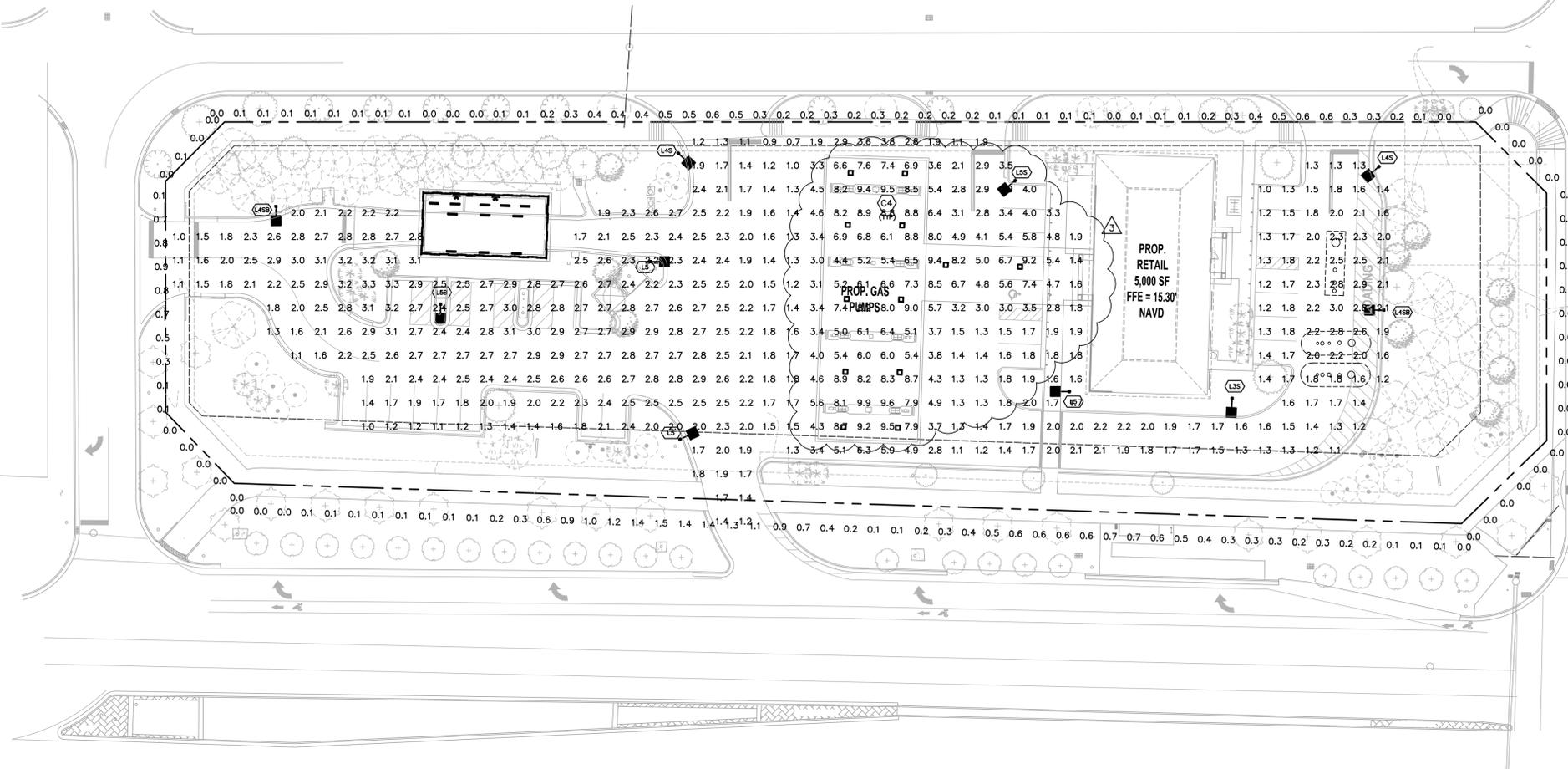
RADICE III  
1000 CORPORATE DRIVE, SUITE 250  
FORT LAUDERDALE, FL 33334  
PH: (954) 202-7000  
FX: (954) 202-7070  
www.ThomasEngineeringGroup.com

**MICHAEL D. GROSSWIRTH**

REGISTERED LANDSCAPE ARCHITECT  
June 6, 2017  
FLORIDA LICENSE No. 6666871  
FLORIDA BUSINESS CERT. OF AUTH. No. 27528

SHEET TITLE:  
**LANDSCAPE SECTIONS**

SHEET NUMBER:  
**L-04**

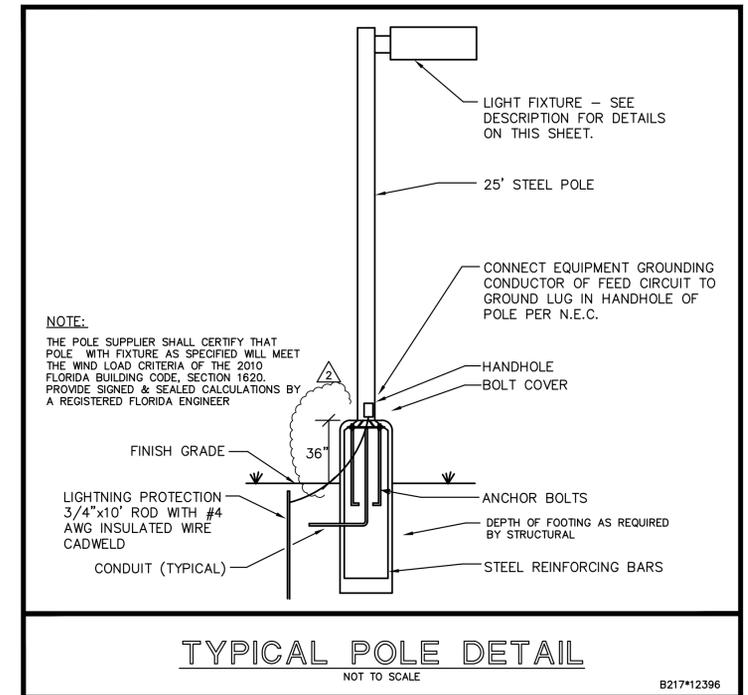


Symbol	Label	[MANUFAC]	Description	Qty	Arrangement	Total Lamp Lumens	LLF	Lum. Watts	Total Watts
+	C4	PRECISION PARAGON	QCF-UL-24C-F-51K-GCO, FLEDR-24-7-UNIV-CVQ-5-WH	12	SINGLE	N.A.	0.800	57.87	694.44
■	L3S	Lithonia Lighting	DSX0 LED 20C 1000 50K T3M MVOLT	1	SINGLE	N.A.	0.900	72	72
■	L4S	Lithonia Lighting	DSX0 LED 20C 1000 50K T4M MVOLT HS	2	SINGLE	N.A.	0.900	72	144
■	L4SB	Lithonia Lighting	DSX1 LED 60C 1000 50K T4M MVOLT HS	2	SINGLE	N.A.	0.900	209	418
■	L5	Lithonia Lighting	DSX1 LED 60C 1000 50K T5M MVOLT	3	SINGLE	N.A.	0.900	209	627
■	L5B	Lithonia Lighting	DSX2 LED 80C 1000 50K T5M MVOLT	1	SINGLE	N.A.	0.900	277	277
■	L5S	Lithonia Lighting	DSX0 LED 30C 1000 50K T5VS MVOLT R90 HS	1	SINGLE	N.A.	0.900	104	104
—	S	LSI	S-1-32 SS010 UW/WG 240	42	SINGLE	1450	0.85	59	2478

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
PROPERTY LINE EAST	Illuminance	Fc	0.00	0.0	0.0	N.A.	N.A.
PROPERTY LINE NORTH	Illuminance	Fc	0.22	0.6	0.0	N.A.	N.A.
PROPERTY LINE SOUTH	Illuminance	Fc	0.46	1.5	0.0	N.A.	N.A.
PROPERTY LINE WEST	Illuminance	Fc	0.27	0.9	0.0	N.A.	N.A.
CANOPY	Illuminance	Fc	7.09	9.9	1.4	5.08	7.07
CARWASH PARKING	Illuminance	Fc	2.28	3.3	1.0	2.28	3.30
STORE PARKING	Illuminance	Fc	1.75	3.0	1.0	1.75	3.00

LAMP DESCRIPTION	QTY	LUMINAIRE LUMENS	TOTAL
C4 60W LED	12	5750	69,000
L3S 72W LED	1	7773	7773
L4S 72W LED	2	7879	15758
L4SB 209W LED	2	22346	44692
L5 209W LED	3	23466	70398
L5B 277W LED	1	31512	31512
L5S 104W LED	1	12322	12322
S 60W FLUORESCENT	421	1450	60900
<b>TOTAL LUMINAIRE LUMENS</b>			<b>243424.0</b>
<b>SITE ALLOWED TOTAL LUMENS (LUMENS PER SF X HARDSCAPE)</b>			<b>420,787.5</b>
PROJECT IS COMPLIANT?			YES

## SITE PHOTOMETRIC PLAN



ANY ACCEPTABLE ALTERNATE/SUBSTITUTE MUST BE APPROVED IN WRITING PRIOR TO BID DATE. TO CONFIRM THAT THE SPECIFIED PHOTOMETRIC CRITERIA HAS BEEN MET, A COMPUTER DISK CONTAINING THE IES PHOTOMETRIC FILE FOR THE PROPOSED ALTERNATE/SUBSTITUTION MUST BE SUBMITTED TO KAMM CONSULTING ENGINEERS FOR EVALUATION NO LESS THAN 10 DAYS PRIOR TO BID.

PERMIT ISSUED 1-27-15  
CONSTRUCTION ISSUED

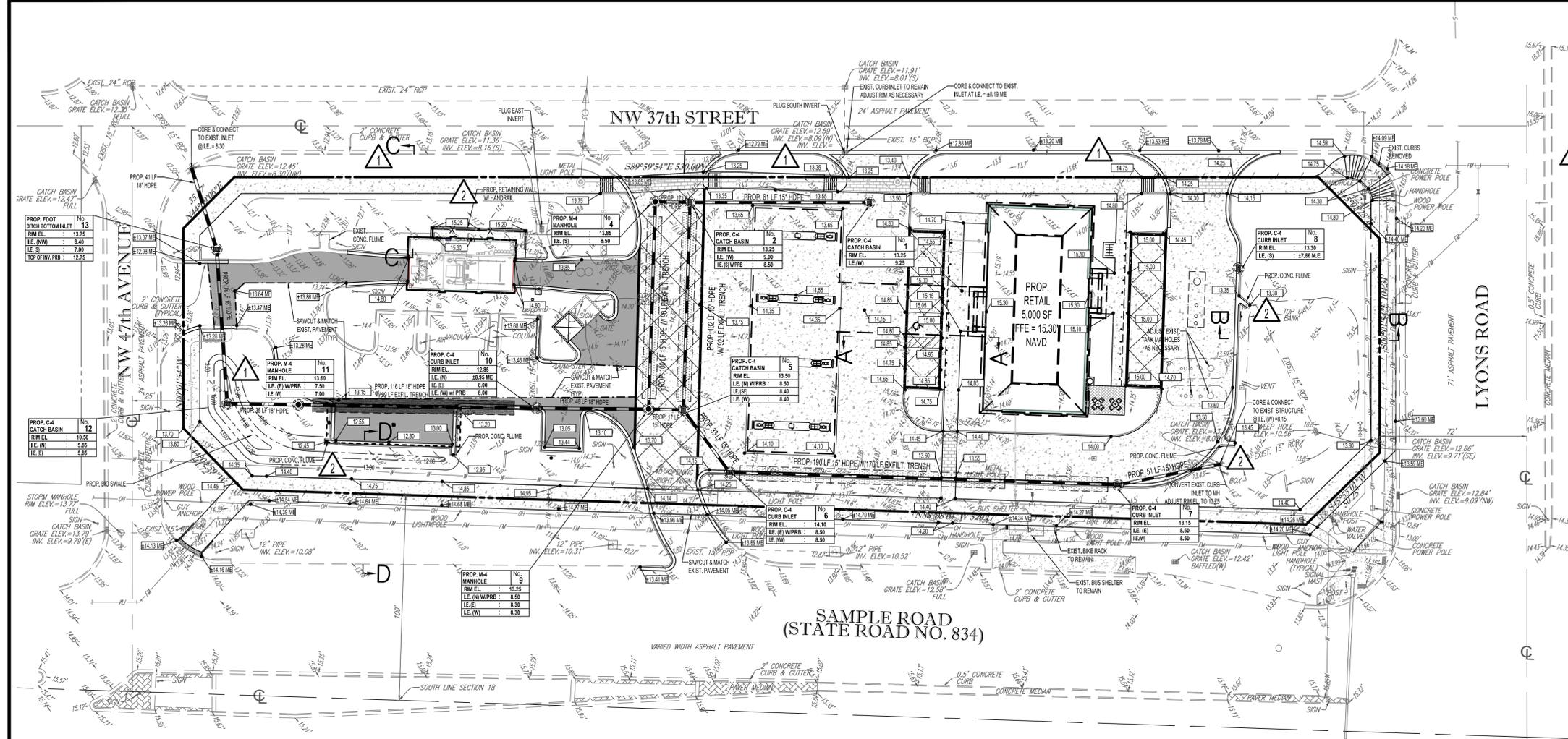
date	
revision	
1	COORDINATION 11-25-15
2	COORDINATION 2-10-16
3	B.D.C. 6-6-16

1407 West Newport Center Drive  
Phone 954-949-2200 Fax 954-949-2201  
Engineering @ kammconsulting.com  
Certification of Professional Engineer  
12-09-16  
KAMM Consulting

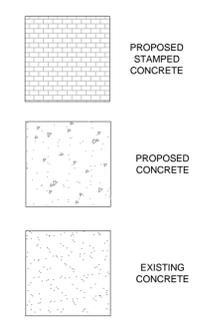
project title: PROPOSED RETAIL 1810 AT LYONS RD AND SAMPLE RD  
COCOONUT CREEK, FLORIDA  
sheet title: SITE PHOTOMETRIC PLAN

proj. no.: 2015-0630  
project manager: GK  
checked by: LTC/RAK  
scale: AS NOTED  
date: 7/24/15

sheet  
**E1.1**  
project



**HATCH LEGEND**



**CONSTRUCTION NOTES:**

- CONTRACTOR TO SAW-CUT AT ALL LOCATIONS OF REMOVAL OF EXISTING CONC. SIDEWALK, CONC. CURB AND ASPHALT UNLESS OTHERWISE NOTED. ALL BASE AND SUBBASE MATERIAL SHALL BE REMOVED WITHIN THE PROPOSED LANDSCAPED AREA.
- CONTRACTOR TO MATCH EXIST. GRADES AND TO CONSTRUCT A SMOOTH TRANSITION FROM EXISTING FACILITIES TO PROPOSED.
- CONTRACTOR TO REMOVE ALL CONSTRUCTION DEBRIS FROM CONSTRUCTION SITE AND DISPOSE PER LOCAL ORDINANCES.
- CONTRACTOR TO ENSURE ALL CONSTRUCTION IS IN ACCORDANCE WITH CITY DESIGN STANDARDS.
- CONTRACTOR TO SOD ALL DISTURBED AREAS, SODDING INCLUDES MAINTAINING SLOPE AND SOD UNTIL COMPLETION AND ACCEPTANCE OF THE TOTAL PROJECT OR GROWTH IS ESTABLISHED WHICHEVER COMES LAST.
- ALL EXISTING TRAFFIC SIGNS DISTURBED DURING CONSTRUCTION SHALL BE REINSTALLED WHERE APPLICABLE BY THE CONTRACTOR.
- THESE PLANS REFLECT CONDITIONS KNOWN DURING PLAN DEVELOPMENT. IN THE EVENT THAT ACTUAL PHYSICAL CONDITIONS PREVENT THE APPLICATION OF THESE STANDARDS OR THE PROGRESSION OF THE WORK, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION OF AFFECTED AREA.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, STORM DRAINS, UTILITIES, AND OTHER FACILITIES TO REMAIN AND SHALL REPAIR ANY DAMAGES DUE TO HIS/HER CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST TO THE OWNER.
- NOTIFY SUNSHINE STATE ONE CALL (1-800-432-4770) OR (811) PRIOR TO CONSTRUCTION.
- PROJECT BASED ON DESIGN SURVEY PREPARED BY OTHERS.
- THE CONTRACTOR SHALL NOT ENCROACH ONTO PRIVATE PROPERTY WITHOUT EASEMENTS NECESSARY FOR COMPLETION OF THE WORK.
- THE EXISTING UNDERGROUND UTILITIES SHOWN ARE PER ABOVE GROUND SURVEY DATA AND UTILITY AS-BUILT DATA. THIS INFORMATION DOES NOT WARRANT EXACT SIZE AND LOCATION OF THE UTILITIES. ALSO, THERE MAY BE ADDITIONAL UTILITIES WITHIN THE LIMITS OF CONSTRUCTION THAT MAY BE AFFECTED. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND PROTECTING EXISTING UTILITIES DURING THE COURSE OF CONSTRUCTION.
- PLEASE SEE MEP PLANS FOR CONTINUATION OF ROOF LEADERS.
- 2.0% MAXIMUM SLOPE ON HANDICAP SPACES AND ADA ACCESS WAYS.
- ALL SIDEWALKS SHOULD HAVE A MAXIMUM CROSS SLOPE OF 2.0%.
- EXISTING COVER MUST BE MAINTAINED ON ALL WATER AND SANITARY LINES.
- EXISTING SEWER MUST REMAIN FREE FROM CONSTRUCTION DEBRIS AND FLOW MUST BE MAINTAINED.
- NO STRUCTURES SHALL BE ALLOWED IN UTILITY EASEMENT.

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 4850 W. KENNEDY BLVD. FT. WORTH, TX 76103  
 125 W. INDIANTOWN RD. JUPITER, FL 33469  
 P. 813-379-4100 P. 561-203-7603

**REVISIONS**

REV.	DATE	COMMENT	BY:
1	02/9/16	PER DRC COMMENTS	MEC
2	09/28/16	PER DRC COMMENTS	KNN

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**SITE EASEMENTS**

PROJECT No.	F140188
DRAWN BY:	AAM
CHECKED BY:	MAT
DATE:	07/28/15 (TYP.)
CAD I.D.:	F140188 - PGD PLAN

**SHELL / DAILY'S C-STORE No. 1810**

FOR  
**FIRST COAST ENERGY**

CITY OF COCONUT CREEK FLORIDA

**THOMAS ENGINEERING GROUP**  
 RADICE III  
 1000 CORPORATE DRIVE, SUITE 250  
 FORT LAUDERDALE, FL 33334  
 PH: (954) 202-7000  
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**MICHAEL A. TROXELL**  
 PROFESSIONAL ENGINEER  
 June 23, 2017  
 FLORIDA LICENSE No. 52672  
 FLORIDA BUSINESS CERT. OF AUTH. No. 27528

SHEET TITLE:  
**PAVING, GRADING & DRAINAGE PLAN**

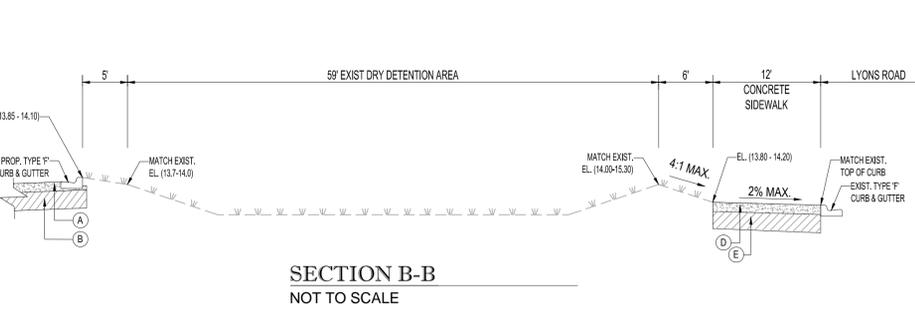
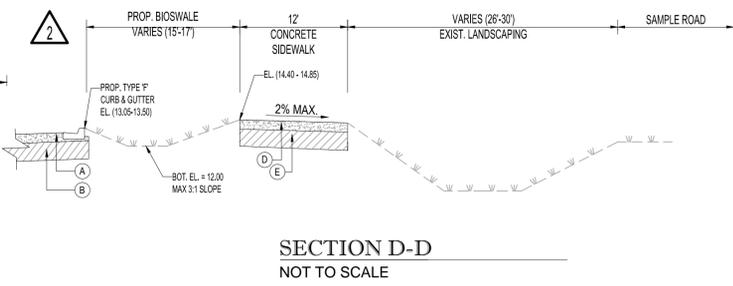
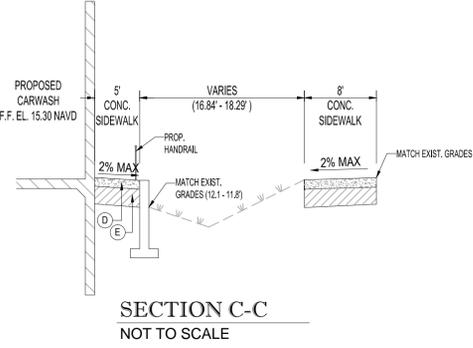
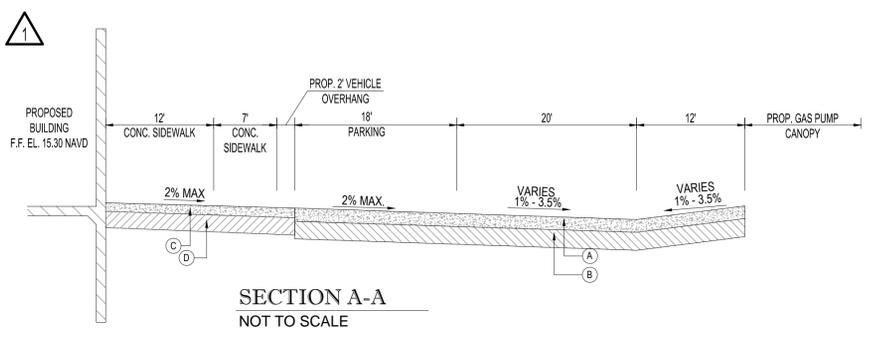
SHEET NUMBER:  
**C-06**

**PAVEMENT LEGEND**

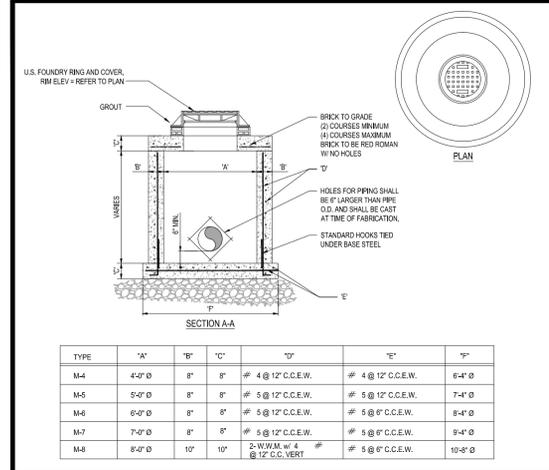
- (A) WEARING SURFACE: (CONCRETE PARKING/DRIVE AISLE AREAS ONLY) INSTALLATION OF THE 6" CONCRETE SURFACE SHALL BE A MINIMUM 4,000 PSI 28 DAY COMPRESSIVE STRENGTH CONCRETE (CONTRACTOR TO REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL SPECIFICATIONS)
- (B) SUB-BASE: 12" STABILIZED SUB-BASE COMPACTED TO 98% OF MAX. DRY DENSITY PER AASHTO T-180 (MIN LBR 40). SUBGRADE SHOULD EXTEND 12" BEYOND LIMEROCK/CONCRETE LIMITS.
- (C) CONCRETE SIDEWALK: 4" THICK 3000 P.S.I. CONCRETE @ 28 DAYS EXCEPT IN DRIVEWAYS WHERE THICKNESS SHALL BE 6" AND 4,000 P.S.I.
- (D) COMPACTED SUBGRADE: (WALKWAYS) COMPACTED TO 98% MAXIMUM DRY DENSITY PER AASHTO T-180.

**PAVING, GRADING & DRAINAGE LEGEND**

EXISTING NOTE	TYPICAL NOTE TEXT	PROPOSED NOTE
W	UNDERGROUND WATER LINE	---
F	UNDERGROUND FORCE MAIN	---
E	UNDERGROUND ELECTRIC LINE	---
---	STORM SEWER	---
---	ROOF DRAIN	D
---	SANITARY SEWER	S
---	HYDRANT	H
---	CURB INLET	C
---	SANITARY MANHOLE	M
---	STORM MANHOLE	SM
---	CATCH BASIN	CB
---	RIDGE LINE	---
---	BACKFLOW PREVENTER	Z
---	WATER METER	W
---	CLEAN OUT	CO
---	TOP OF CURB BOTTOM OF CURB	TC XXX BC XXX
---	GRADE SPOT SHOT	XXX
---	LIMITS OF AFFECTED AREA	---

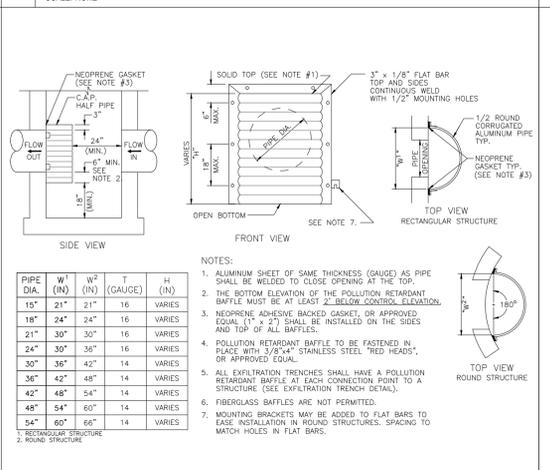


Printed on Friday, June 23, 2017, 9:59 AM by Kevin D'Amico  
 C:\Users\kevin\Documents\Projects\2017\1516\15160001\15160001.dwg - PLOT: 15160001.dwg (SCALE: 1:1)



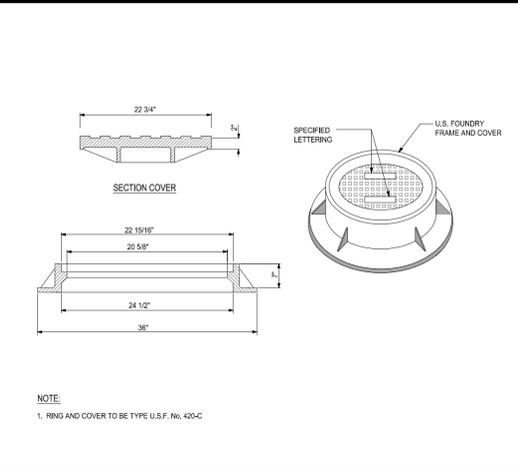
TYPE	"A"	"B"	"C"	"D"	"E"	"F"
M-4	4'-0" Ø	8"	8"	# 4 @ 12" C.C.E.W.	# 4 @ 12" C.C.E.W.	6'-4" Ø
M-5	5'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 12" C.C.E.W.	7'-4" Ø
M-6	6'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 8" C.C.E.W.	8'-4" Ø
M-7	7'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 8" C.C.E.W.	9'-4" Ø
M-8	8'-0" Ø	10"	10"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

1 PRECAST CIRCULAR DRAINAGE MANHOLE  
SCALE: NONE

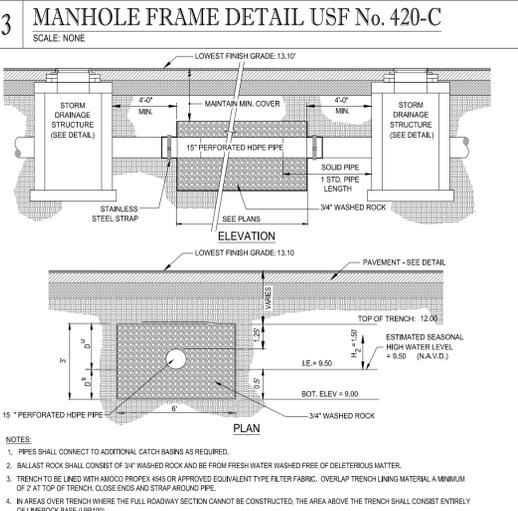


PIPE DIA. (IN)	W1 (IN)	W2 (IN)	T (GAUGE)	H (IN)
15"	21"	21"	16	VARIES
18"	24"	24"	16	VARIES
21"	30"	30"	16	VARIES
24"	30"	36"	16	VARIES
30"	36"	42"	14	VARIES
36"	42"	48"	14	VARIES
42"	48"	54"	14	VARIES
48"	54"	60"	14	VARIES
54"	60"	66"	14	VARIES

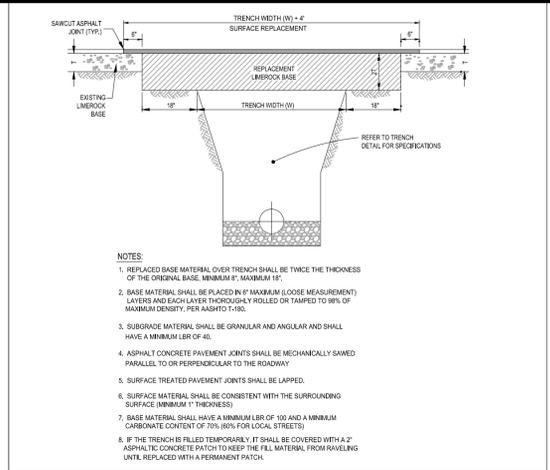
2 PRECAST CONCRETE-TOP SLAB FOR DRAINAGE MANHOLES  
SCALE: NONE



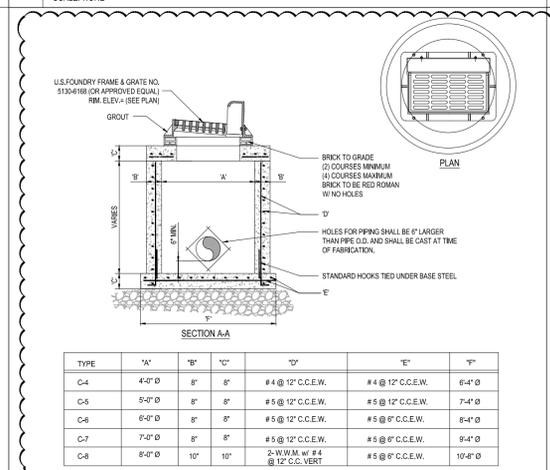
3 MANHOLE FRAME DETAIL USF No. 420-C  
SCALE: NONE



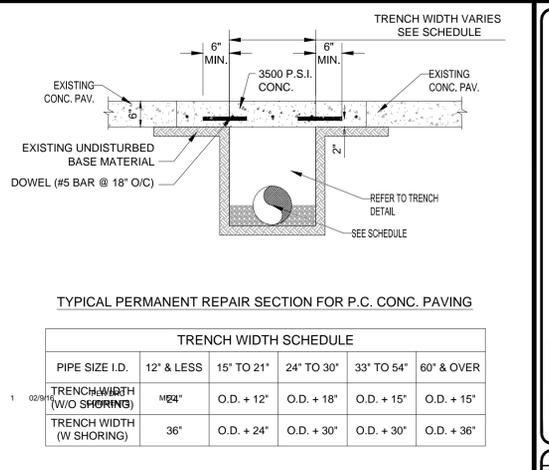
8 EXFILTRATION TRENCH DETAIL  
SCALE: NONE



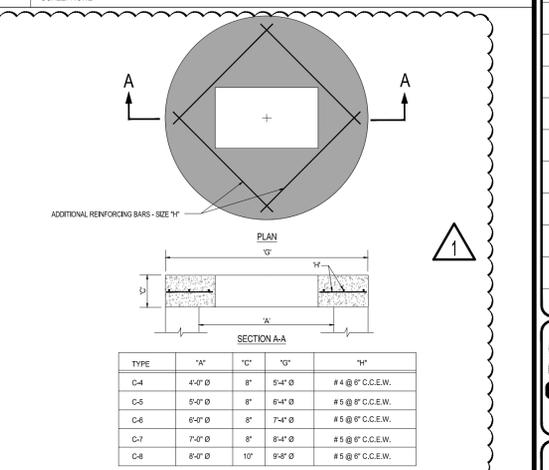
4 PAVEMENT RESTORATION DETAIL  
SCALE: NONE



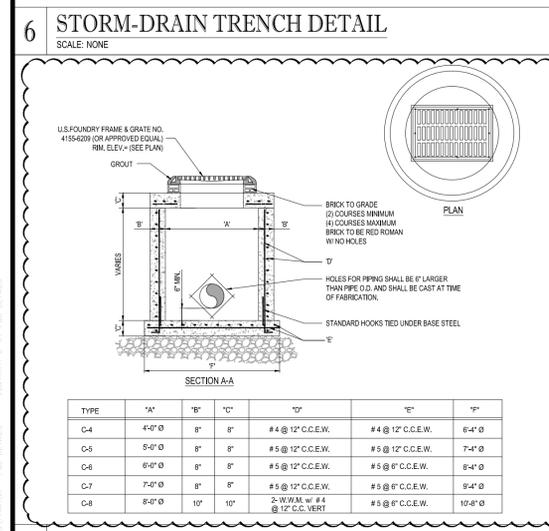
9 PRECAST CIRCULAR CURB INLET  
SCALE: NONE



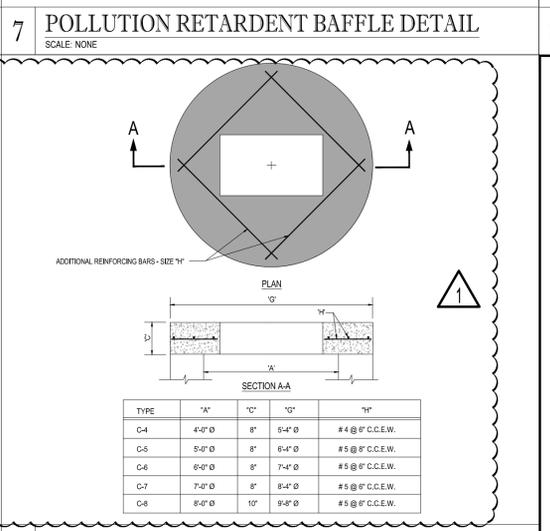
5 PAVEMENT RESTORATION DETAIL (CONCRETE)  
SCALE: NONE



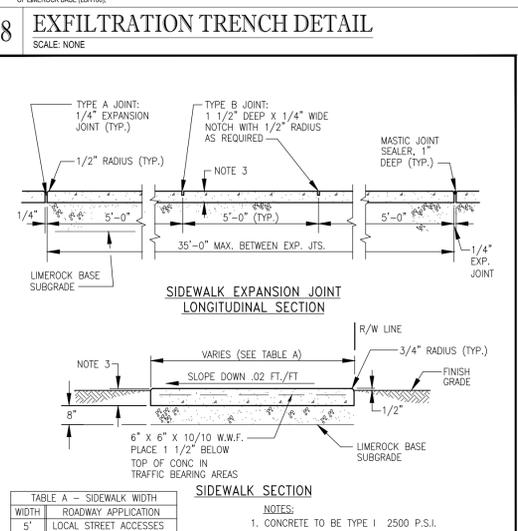
10 PRECAST CONCRETE-TOP SLAB  
SCALE: NONE



6 STORM-DRAIN TRENCH DETAIL  
SCALE: NONE



7 POLLUTION RETARDENT BAFFLE DETAIL  
SCALE: NONE



11 PRECAST CIRCULAR CATCH BASIN  
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 @ 8" C.C.E.W.	8'-4" Ø
C-7	7'-0" Ø	8"	8"	# 5 @ 12" C.C.E.W.	# 5 @ 8" 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 @ 8" C.C.E.W.	# 5 @ 8" C.C.E.W.	10'-8" Ø

12 PRECAST CONCRETE-TOP SLAB  
SCALE: NONE



12 PRECAST CONCRETE-TOP SLAB  
SCALE: NONE

TYPE	LOCATION
"A"	P.C. P.T. OF CURVES
"B"	5'-0" CENTER TO CENTER ON SIDEWALKS

DATE	REVISIONS	APPR. BY	DATE	SCALE	N.T.S.	DWG.	FIG.
			Dec. 1999			F304	304

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REV.	DATE	REVISIONS	COMMENT	BY

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**SITE ENTITLEMENTS**

PROJECT No.:	F140188
CHECKED BY:	AAM
DATE:	07/28/15 (TYP.)
CAD I.D.:	F140188 - PGD DETAILS

PROJECT:  
**SHELL / DAILY'S C-STORE No. 1810**  
 FOR  
**FIRST COAST ENERGY**  
 CITY OF COCONUT CREEK, FLORIDA

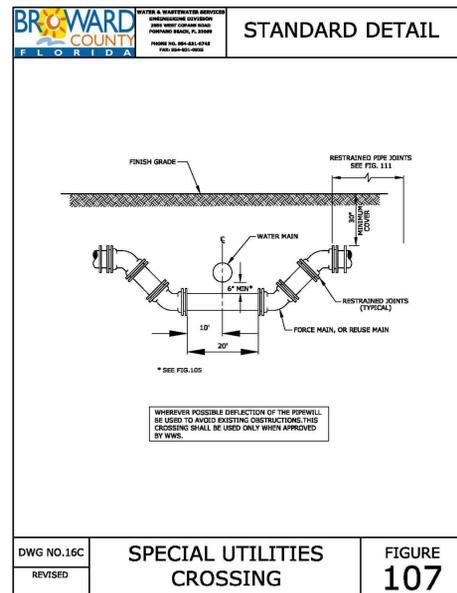
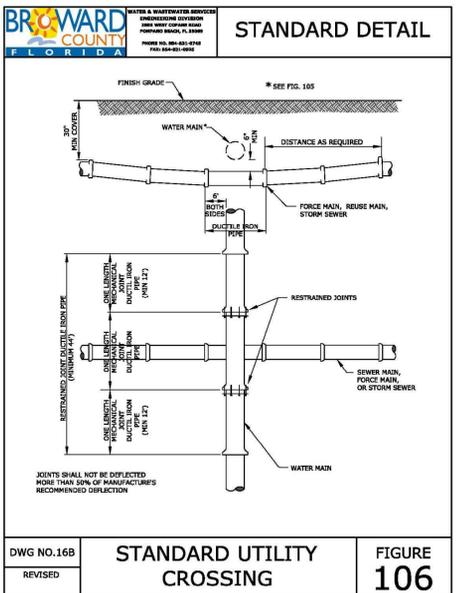
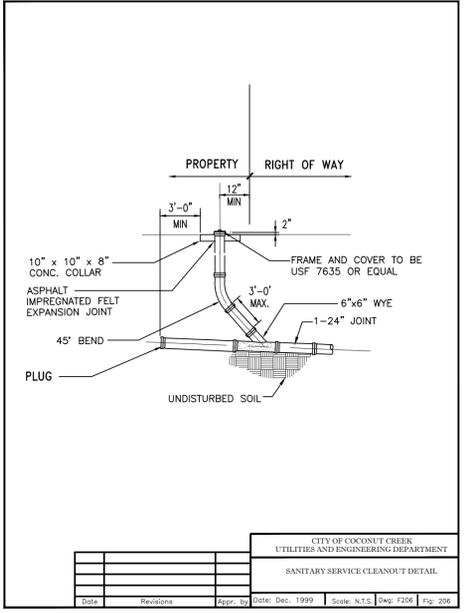
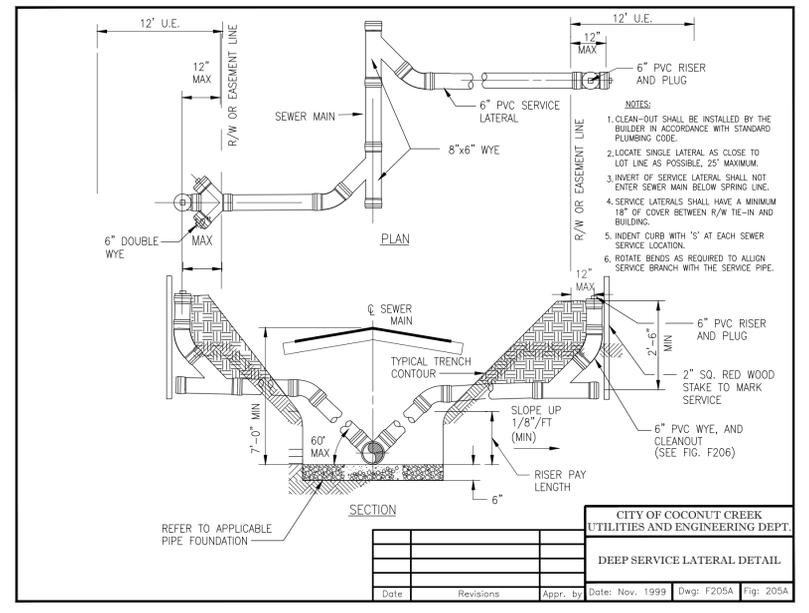
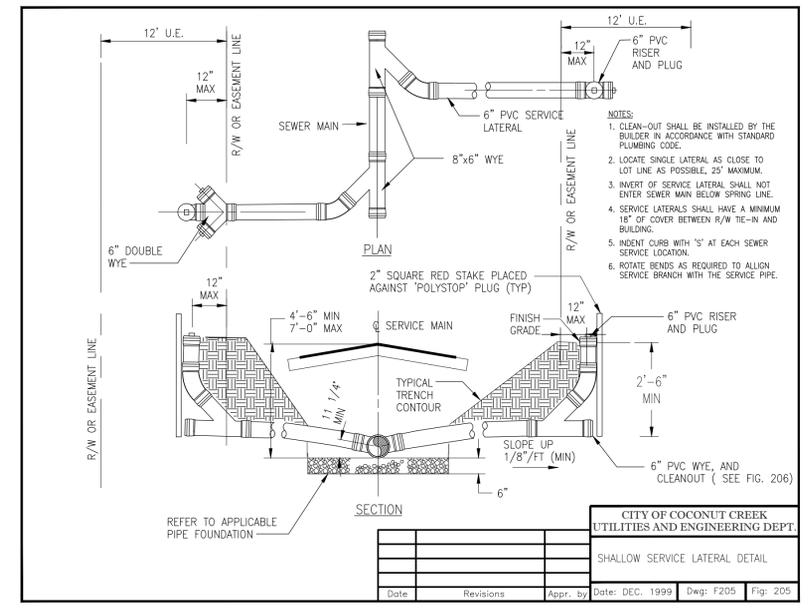
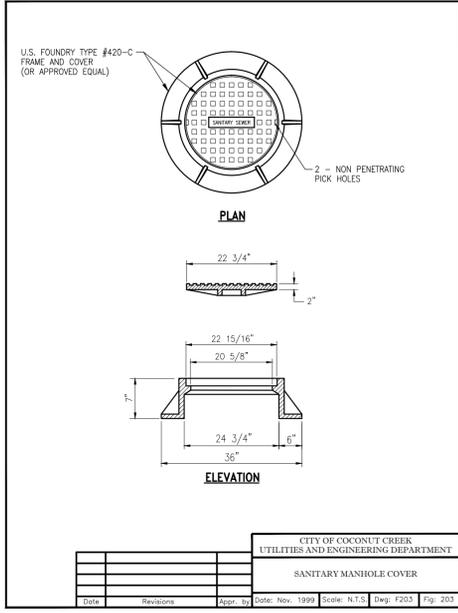
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**MICHAEL A. TROXELL**  
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 June 6, 2017  
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 FLORIDA BUSINESS CERT. OF AUTH. No. 27528

SHEET TITLE:  
**PAVING, GRADING & DRAINAGE DETAILS**  
 SHEET NUMBER:  
**C-07**







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P: 813-379-4100  
P: 561-203-7603

REVISIONS

REV.	DATE	COMMENT	BY

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SITE ENTITLEMENTS

PROJECT No.: F140188  
DRAWN BY: AAM  
CHECKED BY: MAT  
DATE: 07/28/15 (TYP.)  
CAD I.D.: F140188 - UTILITY DETAILS

PROJECT:

**SHELL / DAILY'S  
C-STORE No. 1810**

FOR

**FIRST COAST  
ENERGY**

CITY OF COCONUT CREEK  
FLORIDA

**THOMAS**  
ENGINEERING GROUP

RADICE III  
1000 CORPORATE DRIVE, SUITE 250  
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FX: (954) 202-7070  
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**MICHAEL A. TROXELL**

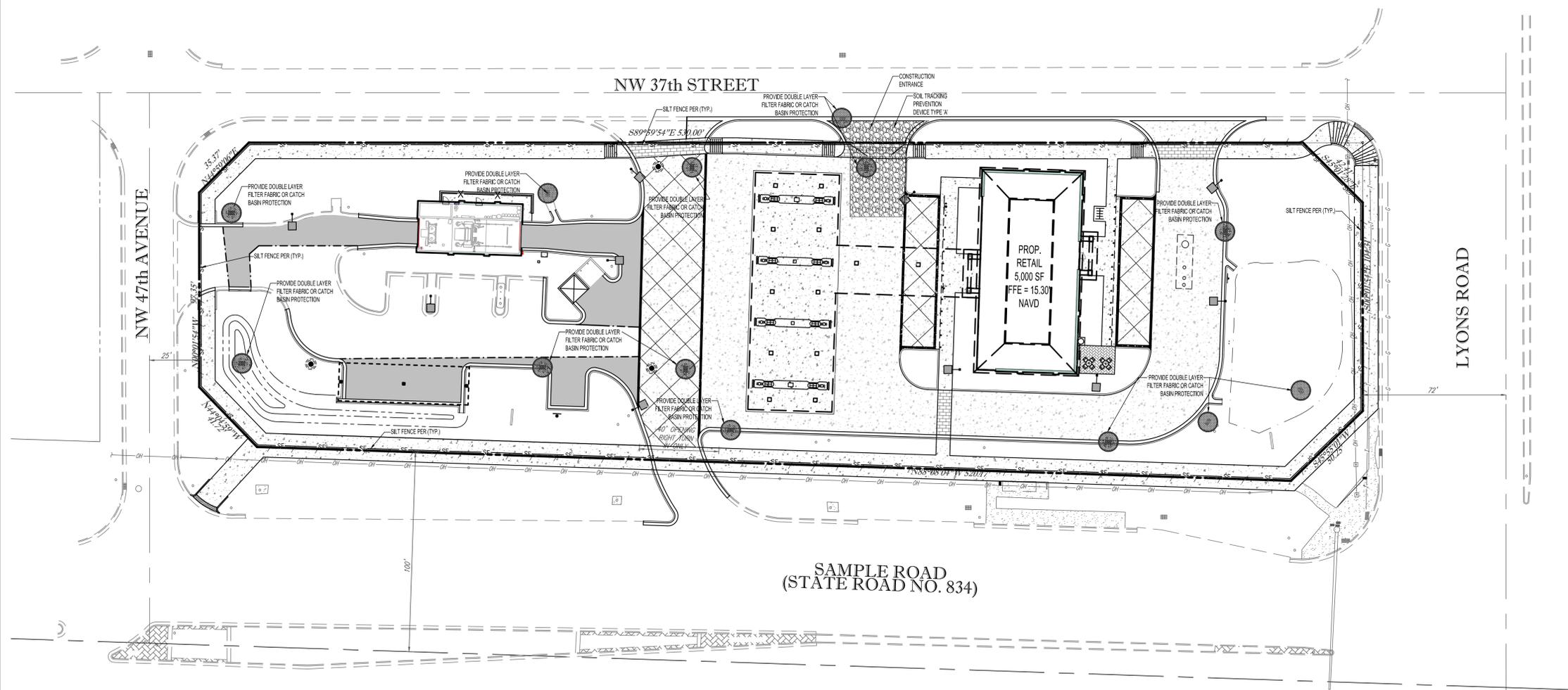
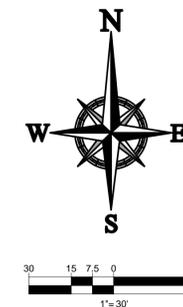
PROFESSIONAL ENGINEER  
June 6, 2017  
FLORIDA LICENSE No. 55272  
FLORIDA BUSINESS CERT. OF AUTH. No. 27528

SHEET TITLE:

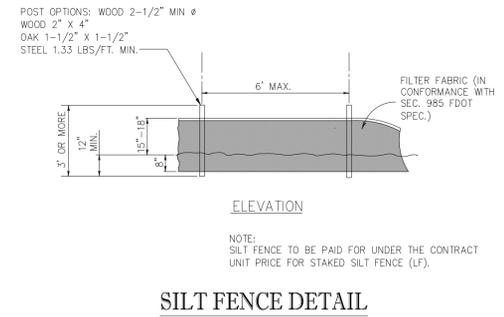
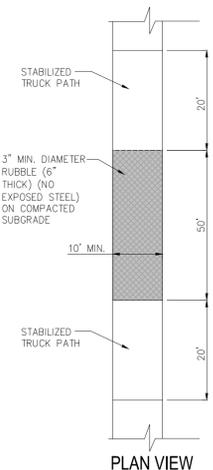
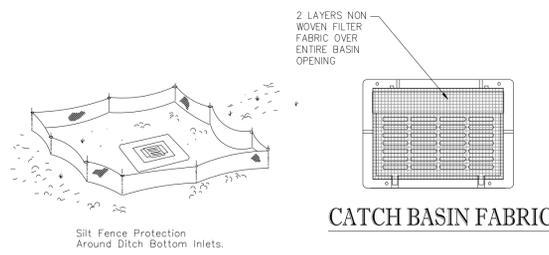
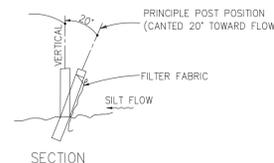
**WATER, SEWER  
& UTILITIES  
DETAILS**

SHEET NUMBER:

**C-10**



**TRUCK RUBBLE STRIP AREA**



**SILT FENCE DETAIL (F.D.O.T. INDEX 102, SHEET 03 OF 03)**

- 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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 TAMPA, FL 33609  
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REVISIONS			
REV.	DATE	COMMENT	BY
1	02/9/16	PER DRC COMMENTS	MEC

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**SITE ENTITLEMENTS**

PROJECT No.:	F140188
DRAWN BY:	AAM
CHECKED BY:	MAT
DATE:	07/28/15 (TYP.)
CAD I.D.:	F140188 - ECP PLAN

PROJECT:  
**SHELL / DAILY'S C-STORE No. 1810**  
 FOR  
**FIRST COAST ENERGY**  
 CITY OF COCONUT CREEK FLORIDA

**THOMAS ENGINEERING GROUP**  
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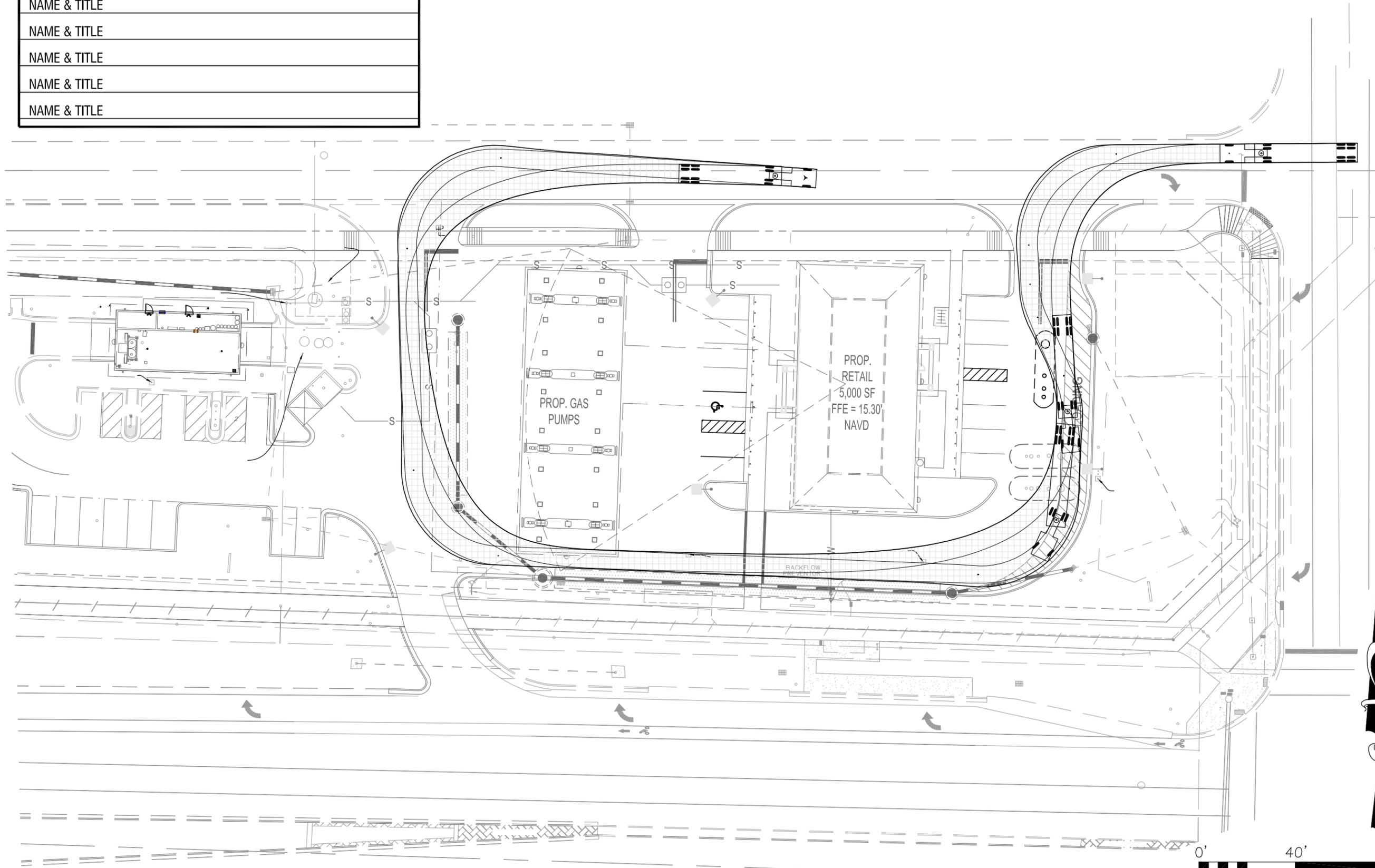
**MICHAEL A. TROXELL**  
 PROFESSIONAL ENGINEER  
 June 23, 2017  
 FLORIDA LICENSE No. 55672  
 FLORIDA BUSINESS CERT. OF AUTH. No. 27528

SHEET TITLE:  
**EROSION CONTROL PLAN**  
 SHEET NUMBER:  
**C-02**

Printed on Friday, June 23, 2017, 9:59 AM by Kevin D'Amico. UNIT EROSION CONTROL PLAN ENTITLEMENTS (ECP PLAN) - C-02 (EROSION CONTROL PLAN)

APPROVED BY

NAME & TITLE  
 NAME & TITLE



PROJECT #:	155-027
DRAWN:	RMH
APPROVED:	FAB
DATE:	02/10/16
SCALE:	1" = 40'

**CONCEPT B EXHIBIT FOR  
 CLIENT APPROVAL**

**FIRST COAST ENERGY #1810**  
 4701 West Sample Road  
 Coconut Creek, Broward County, FL 33073

**stillwater  
 TECHNOLOGIES**  
 203 Hillcrest Street  
 Orlando, Florida 32801  
 (407) 206-7222  
 (407) 206-7223 fax



CONCEPT  
**B**