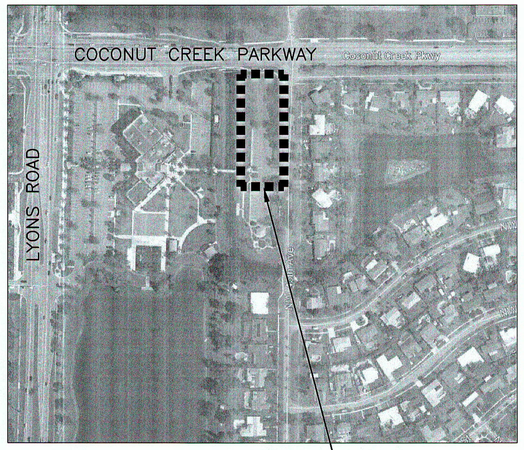
New Fire Station #50
Coconut Creek, Florida

SITE SUBMITTAL SET
February 7, 2014

Anticipated Project Start Time = FALL 2014
Anticipated Project Completion Time = FALL 2015

Perspective View



Location Plan

ADMINISTRATIVE APPROVAL 07-15-14
APPROVED

Drawing Index

COV Cover Sheet

SP-1 Site Plan & Data
SP-2 Phasing Plan
SP-3L Proposed Leed Checklist & Sketches
SP-4 Dumpster Enclosure and Fence Details
A-000 Proposed Floor Plan
A-200 Proposed Elevations
A-201 Proposed Elevations
A-202 Stucco Specs & Signage Details

CIVIL

G-1 Summary of Quantities / General Notes
G-2 Survey
G-3 Survey
G-4 Survey
G-5 Boring Location Plan
G-6 Soil Boring Profiles
G-7 Demolition Plan and Erosion Control
G-8 Stormwater Pollution Prevention
C-1 Sections
C-2 Geometry Plan
C-3 Paving, Grading & Drainage Plan
C-4 Details
C-5 Water and Sewer Plan
C-6 Water Profile
C-7 Sewer Profile
C-8 Water Distribution Details
C-9 Sanitary Sewer Details
C-10 Sanitary Sewer Details
C-11 Marking & Signage Plan
C-12 Marking, Signage, Sidewalk Details
C-13 Truck Circulation Plan

LANDSCAPE

L1.01 Tree Disposition Plan
L2.01 Landscape Plan
L2.02 Landscape Details
L2.03 Landscape Details
L3.01 Irrigation Plan
L3.02 Irrigation Details
L3.03 Irrigation Specifications

SITE LIGHTING

E1.1 LEED Site Photometric Plan
E1.2 Site Photometric Plan

CHEN-MOORE &ASSOCIATES
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(954) 730-0707
www.chenmoore.com
CERTIFICATES OF AUTHORIZATION
EB0004593 LC26000425

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Deerfield, Florida 33442
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engineering@kammconsulting.com
Certification of Authorization #1689

CHRIS P. ZIMMERMAN, A.I.A.
REGISTERED ARCHITECT NO. 10,995
STATE OF FLORIDA
DATE: 4-28-14

NO.	REVISION	DATE
	SITE SUBMITTAL	2-7-2014
	DRC COMMENTS	3-17-14
	DRC COMM#2	4-17-14

CONSULTANT:

PROPOSED NEW FIRE STATION 50
NW 45 AVE.
NW 45 AVE. & COCONUT CREEK PARKWAY
COCONUT CREEK, FLORIDA

CPZ ARCHITECTS, INC.
4316 WEST BROWARD BOULEVARD
PLANTATION, FLORIDA 33317
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DRAWING TITLE:
Cover Sheet

DRAWN
CHECKED CPZ
DATE
SCALE AS NOTED
PROJECT NO. 1220B
SHEET:
COV
of:

PROPOSED NEW FIRE STATION 50

OWNER:
CITY OF COCONUT CREEK
4800 W COPANS RD. COCONUT CREEK FL. 33063-3879

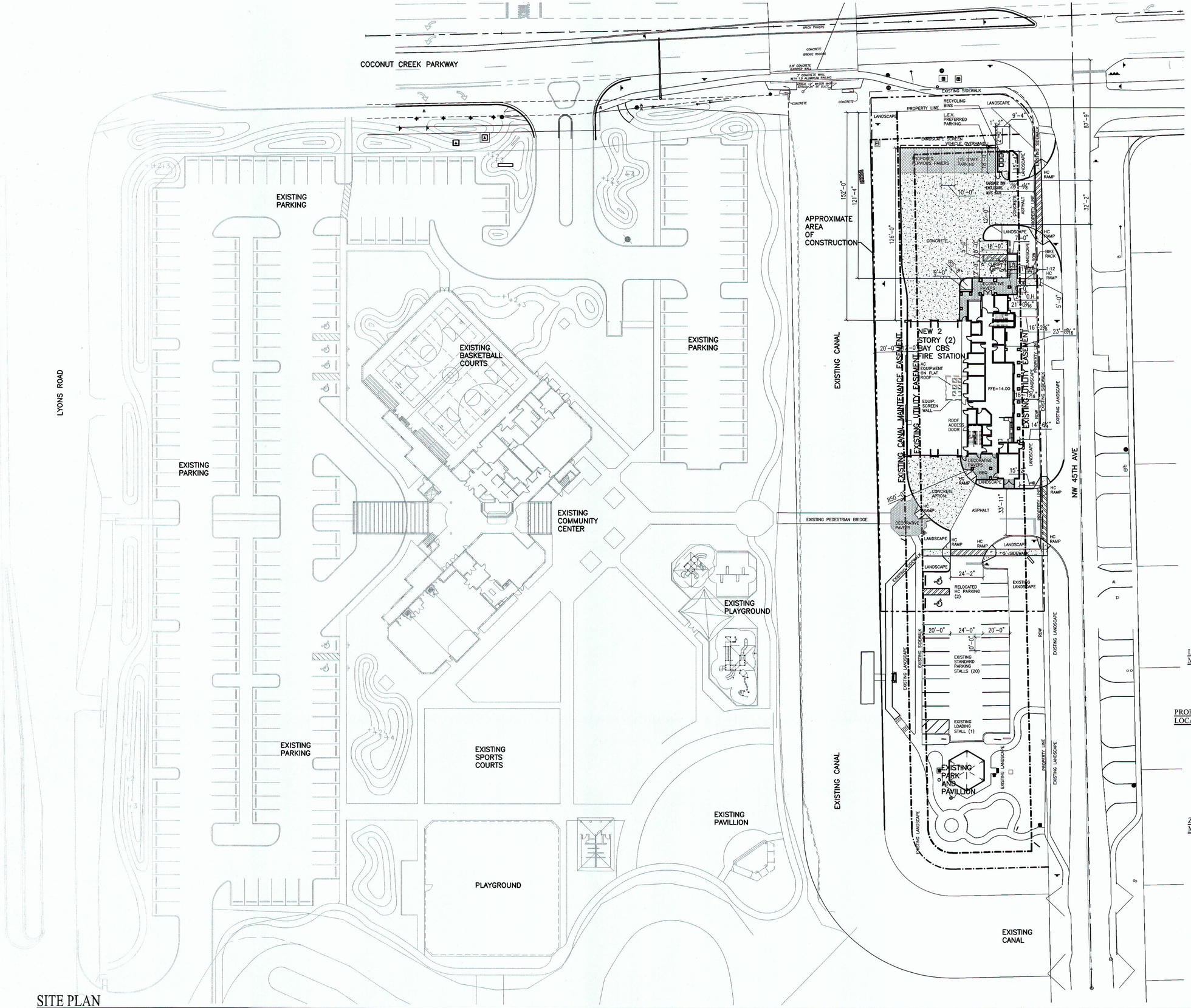
SITE DATA:	EXISTING		PROPOSED	
EXISTING ZONING	CF		CF	
EXISTING LAND USE	OFFICE PROFESSIONAL		OFFICE PROFESSIONAL	
SITE AREA (GROSS)	357,327 SF	8.5 ACRES	357,327 SF	8.5 ACRES

BUILDING COVERAGE:	S.F.	% OF SITE	S.F.	% OF SITE
COMMUNITY CENTER	25,347		25,347	
RESTROOM BUILDING	805		805	
PAVILION 1	538		538	
PAVILION 2	357		357	
PAVILION 3	546		546	
NEW FIRE STATION (FOOTPRINT)	---	---	**8,585**	---
TOTAL BUILDING COVERAGE	27,593	7.7%	**36,178**	**10%**
V U AREA + GRASS PARKING	121,750	34.2%	**115,755**	**32.3%**
JOGGING PATH	14,154	3.9%	14,154	3.9%
PAVED AREA (SIDEWALKS, SPORTS CT, SKATE PARK, PLAY AREAS)	56,376	15.7%	**57,567**	**16.1%**
LANDSCAPE/OPEN SPACE	137,454	38.4%	**132,449**	**37.7%**
TOTAL PERVIOUS AREA	137,454	38.5%	**132,449**	**37.7%**
TOTAL IMPERVIOUS AREA	219,873	61.5%	**224,878**	**62.3%**

PARKING DATA	CALCULATION	# OF SPACES	PROPOSED CALCULATION	# OF SPACES
GYMNASIUM	90 SEATS / 5 40 USERS / 2	20 20		20 20
COMM. ROOM PUBLIC LOUNGE SENIOR LOUNGE TEEN ACTIVITY CLASS ROOM FITNESS ROOM TOTAL	3,142.70 SF 578.70 SF 1,489.00 SF 1,400.40 SF 2,472.70 SF 1,492.80 SF 10,576.30 SF/200	53		53
NEW FIRE STATION	---	---	**9 DORMS + DISP**	**10**
OFFICE/KITCHEN	2,887.40 SF /300	10		10
JOGGING TRAIL PASSIVE AREA A PASSIVE AREA B	14,154.00SF/5,000 47,531.00SF/5,000 17,407.00SF/5,000	3 10 4		3 10 4
	TOTAL PARKING SPACES REQ.	119	**PROPOSED TOTAL PARKING SPACES REQ.**	**129**
	TOTAL PARKING SPACES PROVIDED	300	**PROPOSED TOTAL PARKING SPACES PROVIDED**	**259**
	TOTAL HC PARKING SPACE REQ.	8		8
	TOTAL HC PARKING SPACES PROVIDED	8		8

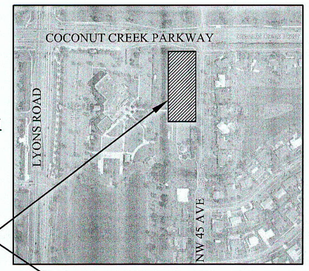
NO.	REVISION	DATE
	SITE SUBMITTAL	2-7-2014
	DRC COMMENTS	3-17-14

CONSULTANT:

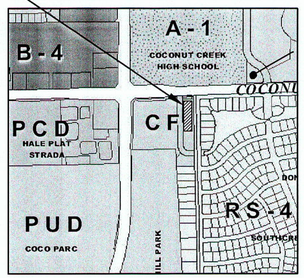


LOCATION MAP

PROPOSED LOCATION



ZONING MAP



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DRAWING TITLE:
SITE PLAN

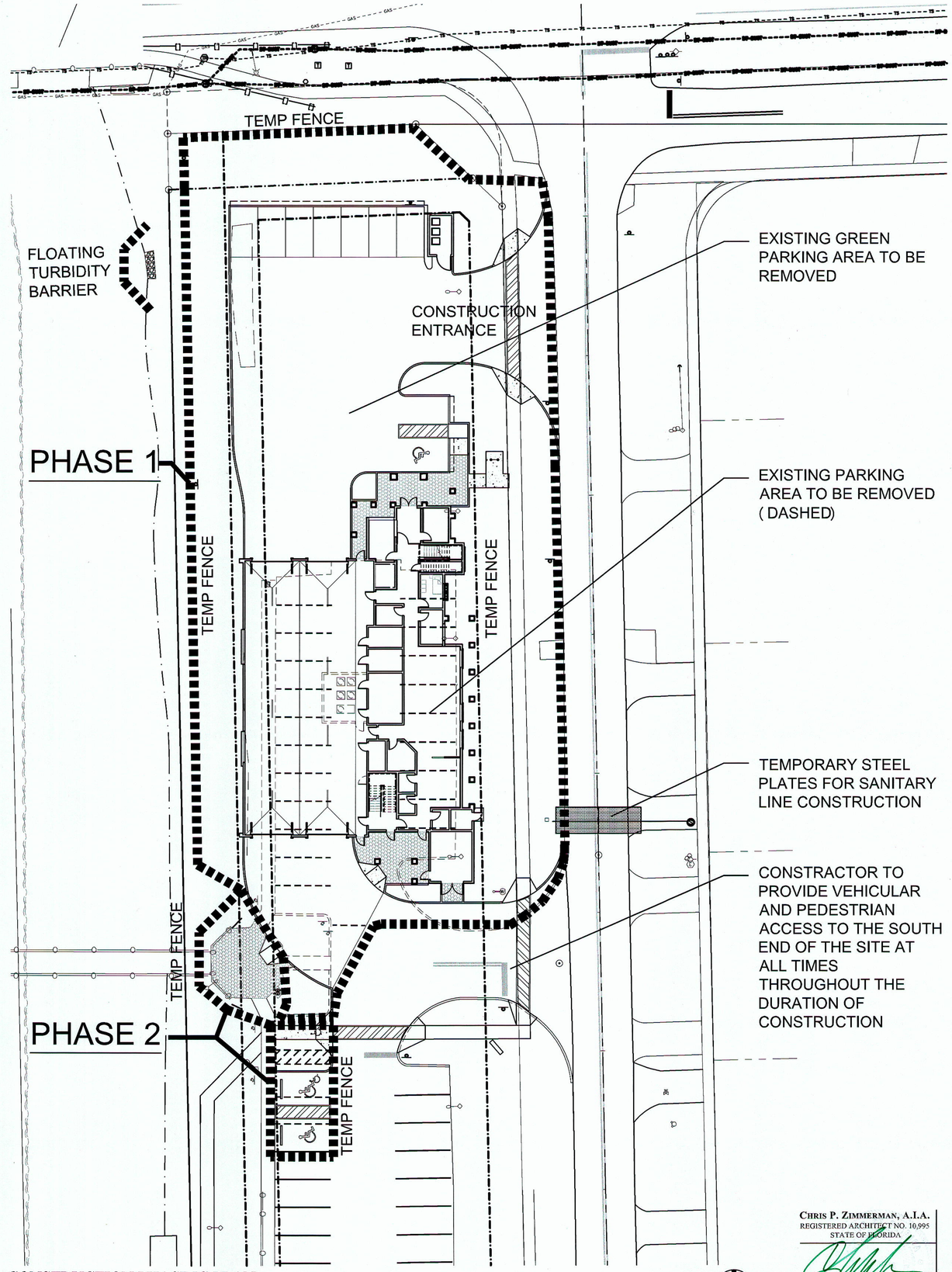
DRAWN	
CHECKED	CPZ
DATE	
SCALE	AS NOTED
PROJECT NO.	1220B
SHEET:	

SP-1

CHRIS P. ZIMMERMAN, A.I.A.
REGISTERED ARCHITECT NO. 10,995
STATE OF FLORIDA
DATE: 4-24-14

SCALE: 1/32" = 1'-0"

SITE PLAN



CONSTRUCTION PHASING PLAN

SCALE: = 1:20

NO.	REVISION	DATE
	DRC COMMENTS	3-17-14

CONSULTANT:

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NW 45 AVE.

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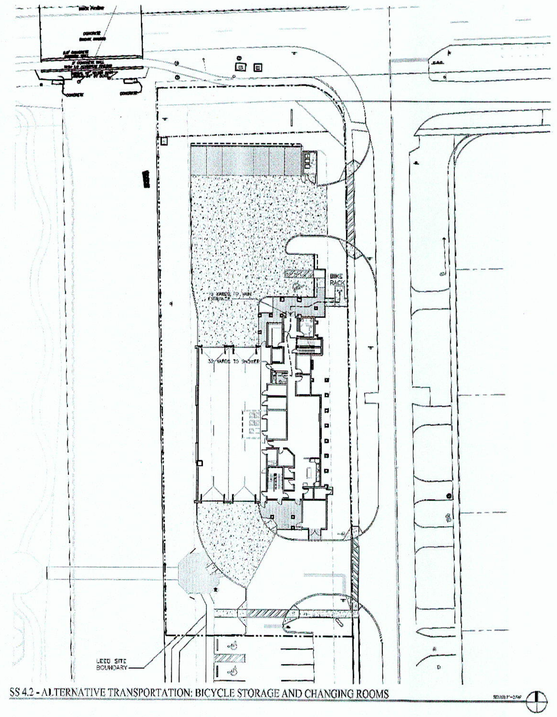
CPZ

DRAWING TITLE:
PHASING PLAN

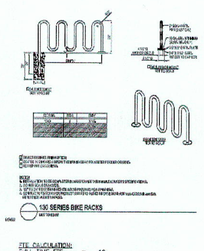
DRAWN	
CHECKED	CPZ
DATE	
SCALE	AS NOTED
PROJECT NO.	1220B
SHEET:	SP-2

CHRIS P. ZIMMERMAN, A.I.A.
REGISTERED ARCHITECT NO. 10,995
STATE OF FLORIDA

DATE: 4-24-14



SS 4.2 - ALTERNATIVE TRANSPORTATION: BICYCLE STORAGE AND CHANGING ROOMS

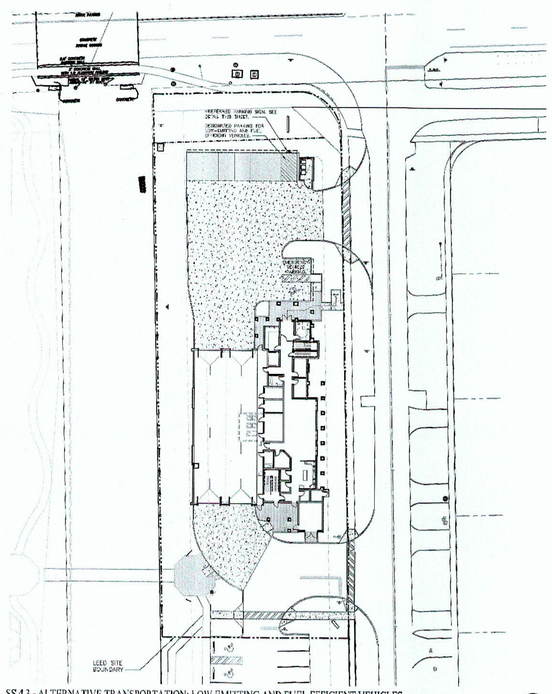


130 SERIES BIKE RACKS

FTE CALCULATION:
FULL TIME FTE = 12
STUDENTS/VISITORS = 0
VOLUNTEERS = 0
TOTAL FTE = 10

REQUIRED BIKE RACK CAPACITY:
5% OF PEAK = 0.05 X 10 (FTE) = 1 TOTAL CAPACITY BIKE RACK REQUIRED
PROVIDED= (1) BIKE RACK WITH 8 BIKES CAPACITY WITHIN 200 YARDS FROM A MAIN BUILDING ENTRANCE.

REQUIRED SHOWER/LOCKER ROOM COUNT:
.35 of FTE = 0.035 X 10 OCCUPANTS = 1 REQUIRED
PROVIDED= (1) SHOWER AT GROUND FLOOR AND (3) AT SECOND FLOOR.



SS 4.3 - ALTERNATIVE TRANSPORTATION: LOW EMITTING AND FUEL EFFICIENT VEHICLES

PREFERRED PARKING SPACES FOR LOW-EMITTING / FUEL EFFICIENT VEHICLE CALCULATIONS:

TOTAL PARKING = 8
REQUIRED 5% OF TOTAL PARKING = 0.05 X 8 = 1
No. OF PREFERRED PARKING SPACES PROVIDED = 1

Parking Sign Details for Alternative Fuel Vehicle parking (ULEV, hybrid, CNG and electric vehicles included parking).

LEED 2009 for New Construction and Major Renovations
Project Checklist

12220: Fire Station 50 - City of Coconut Creek, FL
4/3/2014

22	1	3	Sustainable Sites	Possible Points:	26	Team Mem Due Date	Team Member	Due Date
Y			Description					
	1		p Prereq 1 Construction Activity Pollution Prevention				Carlos Ortega - CRJ	
			c Credit 1 Site Selection	1				
	5		c Credit 2 Development Density and Community Connectivity	5			Claudia Galvis - CPZ	
	1		c Credit 3 Brownfield Redevelopment	1				
4			c Credit 4.1 Alternative Transportation-Public Transportation Access	4			Claudia Galvis - CPZ	
1			c Credit 4.2 Alternative Transportation-Bicycle Storage and Changing Rooms	1			Claudia Galvis - CPZ	
			c Credit 4.3 Alternative Transportation-Low-Emitting and Fuel-Efficient Vehicles	3			Claudia Galvis - CPZ	
3			Option 1 3% preferred parking					
	0		Option 2 Alternative fueling stations for 3% of total parking capacity				Claudia Galvis - CPZ	
	0		Option 3 Provide low emitting alternative vehicles for 3% and preferred parking for them					
	0		Option 4 Provide low emitting alternative vehicles charging program					
	0		c Credit 4.4 Alternative Transportation-Parking Capacity	2				
			Option 1 Parking Capacity must not exceed zoning requirement & must provide preferred vanpool					
	0		Option 2 For projects provide parking for less than 5% of FTE then provide preferred vanpool/carpool for 5% and a discounted parking rate.					
2			Option 3 No New Parking				Claudia Galvis - CPZ	
	0		Option 4 If no parking restrictions then provide 20% fewer parking spaces than the applicable standard in the ZONG ITE					
1	1		c Credit 5.1 Site Development--Protect or Restore Habitat	1				
	0		Option 1 Greenfield- limit all site disturbance to 40' beyond bldg perimeter, 10' beyond walkways, 15' beyond primary roadway & both utility trenches, 25' beyond accelerated area with permeable surfaces					
	0		Option 2 Previously Developed- restore or protect 50% of the site (including footprint) or 20% of total site area(including footprint) whichever is greater with native or adapted vegetation. If open soil then you can					
1			c Credit 5.2 Site Development--Maximize Open Space	1				
	1		Option 1 Reduce development footprint and/or provide vegetated open space within the project boundary such that the amount of open space exceeds local zoning requirements by 25%				Claudia Galvis - CPZ	
	0		Option 2 Provide vegetated open space adjacent to the building that is equal to the bldg area in footprint.					
	0		Option 3 Provide vegetated open space equal to 20% of the projects site area.					
1			c Credit 6.1 Stormwater Design--Quantity Control	1				
			Option 1 Design Storms					
			Option 1 Sites with Existing Impervious <50%					
			Path1 Implement Stormwater plan. Plan that preserve predevelopment peak discharge rate quantity (non-exceeding the predevelopment peak discharge rate and quantity for 1 and 2 yr 24 design storms					
			Path2 Implement Stormwater plan that protects receiving stream channels from excessive erosion damage, that installed stream channel protection and quantity control.					
			Option 2 Sites with Existing Impervious >50%- implement a plan that results in a 25% decrease in the volume of stormwater runoff for 2yr 24 hr design storm.				Carlos Ortega - CRJ	
			Option 3 Percentage Beneficial Drainage					
			Option 1 Vendors Art Lieberman on site runoff for 90th percentile of rainfall or local rainfall using low impact development and green infrastructure					
			Option 2 Zero Lot Lines					
1			c Credit 6.2 Stormwater Design--Quality Control; (with plan that reduces impervious cover and promotes infiltration, treat 90% of average rainfall.	1				
1			c Credit 7.1 Heat Island Effect--Non-roof	1				
			Option 1 For 50% of hardscape provide shade from tree canopy within 5 years, shade from solar panel covered structures, from with-shrubs with and 50% at least 30, hardscape with 5% of SR, open grid paving system along a min of 30% of parking under cover				Claudia Galvis - CPZ	
	0		Option 2					
1			c Credit 7.2 Heat Island Effect--Roof	1				
	0		Option 1 Use roof materials with SRI +/- 78(Nonwhites) for a min of 75%					
	0		Option 2 Use vegetative roof for 50%				Claudia Galvis - CPZ	
	0		Option 3 Install combination of low albedo and vegetated roof					
1			c Credit 8 Light Pollution Reduction	1				
			Option 1 Attempt to only reduce the input power of all nonemergency luminaires with direct line of sight to a building opening by auto device for interior lighting or 11PM from 11pm to 5am					
	0		Option 2					

Notes:

6	0	3	Water Efficiency	Possible Points:	10
Y			Water Use Reduction--20% Reduction		
4			p Credit 1 Water Efficient Landscaping	2 to 4	
			Option 1 Reduce by 50%	2	
			X Option 2 No Potable Water Use or Irrigation	4	
2			c Credit 2 Innovative Wastewater Technologies	2	
	0		Option 1 Reduce potable water including sewage conveyance by 50% through the use of water-conserving fixtures		
	0		Option 2 Treat 50% of wastewater on-site to tertiary standards		
4			c Credit 3 Water Use Reduction	2 to 4	
			X Option 1 Reduce by 30%	2	
			Option 2 Reduce by 35%	3	
			Option 3 Reduce by 40%	4	

Notes:

Contractor Betancourt - Chesi Moore
Contractor Betancourt - Chesi Moore
John Mayr - Kamm Consulting

6	2	4	Materials and Resources	Possible Points:	14
Y					
	2		c Prereq 1 Storage and Collection of Recyclables		
			c Credit 1.1 Building Reuse--Maintain Existing Walls, Floors, and Roof	Use existing building structure	1 to 2
			Option 25%	1	
			Option 50%	2	
			Option 95%	3	
	1		c Credit 1.2 Building Reuse--Maintain 50% of Interior Non-Structural Elements	Use existing building interior elements	1
	1		c Credit 2 Construction Waste Management		
			50% Recycled or Salvaged	Divert construction and demolition materials from landfill	1 to 2
			X 75% Recycled or Salvaged		2
	2		c Credit 3 Resources Reuse	Use salvaged, refurbished or reused materials for at least 5% of accumulative cost	1 to 2
			Option 5%	1	
			Option 10%	2	
2			c Credit 4 Recycled Content		1 to 2
			10% of Content	1	
			X 20% of Content	2	
2			c Credit 5 Regional Materials		1 to 2
			10% of Materials	1	
			X 20% of Materials	2	
1			c Credit 6 Rapidly Renewable Materials	1	
1			c Credit 7 Certified Wood	1	

Notes:

Claudia Galvis - CPZ Architects
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13	1	1	Indoor Environmental Quality	Possible Points:	15
Y					
Y			p Prereq 1 Minimum Indoor Air Quality Performance		
Y			p Prereq 2 Environmental Tobacco Smoke (ETS) Control		
1			c Credit 1 Outdoor Air Delivery Monitoring	1	
1			c Credit 2 Increased Ventilation	1	
1			c Credit 3.1 Construction IAQ Management Plan--During Construction	1	
1			c Credit 3.2 Construction IAQ Management Plan--Before Occupancy	1	
1			c Credit 4.1 Low-Emitting Materials--Adhesives and Sealants	1	
1			c Credit 4.2 Low-Emitting Materials--Paints and Coatings	1	
1			c Credit 4.3 Low-Emitting Materials--Flooring Systems	1	
1			c Credit 4.4 Low-Emitting Materials--Composite Wood and Agrifiber Products	1	
	1		c Credit 5 Indoor Chemical and Pollutant Source Control	1	
	1		c Credit 6.1 Controllability of Systems--Lighting	1	
	1		c Credit 6.2 Controllability of Systems--Thermal Comfort	1	
	1		c Credit 7.1 Thermal Comfort--Design	1	
	1		c Credit 7.2 Thermal Comfort--Verification	1	
	1		c Credit 8.1 Daylight and Views--Daylight	daylight to 75% of occupied spaces	1
	1		c Credit 8.2 Daylight and Views--Views	views for 90% of spaces	1

Notes:

John Mayr - Kamm Consulting
Claudia Galvis - CPZ Architects
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John Mayr - Kamm Consulting
John Mayr - Kamm Consulting
John Mayr - Kamm Consulting
Mize - Consultant
Claudia Galvis - CPZ Architects

2	0	4	Innovation and Design Process	Possible Points:	6
Y					
1			c Credit 1.1 Innovation in Design: EDUCATION	1	
1			c Credit 1.2 Innovation in Design: Specific Title	1	
1			c Credit 1.3 Innovation in Design: Specific Title	1	
1			c Credit 1.4 Innovation in Design: Specific Title	1	
1			c Credit 1.5 Innovation in Design: Specific Title	1	
1			c Credit 2 LEED Accredited Professional	1	

Notes:

Claudia Galvis - CPZ Architects
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3	1	0	Regional Priority Credits	Possible Points:	4
Y					
1			c Credit 1.1 Regional Priority: EA Credit 1 Optimize Energy Performance	1	
1			c Credit 1.2 Regional Priority: EQ Credit 8.1 Daylight & Views - Daylight	1	
1			c Credit 1.3 Regional Priority: MR Credit 5 Regional Materials - 20% of Content	1	
1			c Credit 1.4 Regional Priority: SS Credit 5.2 Maximize Open Space	1	

Notes: Improve by 20% for new buildings.

John Mayr - Kamm Consulting
Claudia Galvis - CPZ Architects
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71	10	16	Total	Possible Points:	110
Certified 40 to 49 points	Silver 50 to 59 points	Gold 60 to 79 points	Platinum 80 to 110		

19	9	0	Energy and Atmosphere	Possible Points:	35
Y					
Y			p Prereq 1 Fundamental Commissioning of Building Energy Systems		
Y			p Prereq 2 Minimum Energy Performance		
Y			p Prereq 3 Fundamental Refrigerant Management		
10			c Credit 1 Optimize Energy Performance	1 to 19	
			Improve by 12% for New Buildings or 8% for Existing Building Renovations	1	
			Improve by 14% for New Buildings or 10% for Existing Building Renovations	2	
			Improve by 16% for New Buildings or 12% for Existing Building Renovations	3	
			Improve by 18% for New Buildings or 14% for Existing Building Renovations	4	
			Improve by 20% for New Buildings or 16% for Existing Building Renovations	5	
			Improve by 22% for New Buildings or 18% for Existing Building Renovations	6	
			Improve by 24% for New Buildings or 20% for Existing Building Renovations	7	
			Improve by 26% for New Buildings or 22% for Existing Building Renovations	8	
			Improve by 28% for New Buildings or 24% for Existing Building Renovations	9	
		X	Improve by 30% for New Buildings or 26% for Existing Building Renovations	10	
			Improve by 32% for New Buildings or 28% for Existing Building Renovations	11	
			Improve by 34% for New Buildings or 30% for Existing Building Renovations	12	
			Improve by 36% for New Buildings or 32% for Existing Building Renovations	13	
			Improve by 38% for New Buildings or 34% for Existing Building Renovations	14	
			Improve by 40% for New Buildings or 36% for Existing Renovations	15	
			Improve by 42% for New Buildings or 38% for Existing Building Renovations	16	
			Improve by 44% for New Buildings or 40% for Existing Building Renovations	17	
			Improve by 46% for New Buildings or 42% for Existing Building Renovations	18	
			Improve by 48% for New Buildings or 44% for Existing Building Renovations	19	
5			c Credit 2 On-Site Renewable Energy	1 to 7	
			1% Renewable Energy	1	
			2% Renewable Energy	2	
			3% Renewable Energy	3	
			4% Renewable Energy	4	
			X 5% Renewable Energy	5	
			11% Renewable Energy	6	
			13% Renewable Energy	7	
2			c Credit 3 Enhanced Commissioning	2	
2			c Credit 4 Enhanced Refrigerant Management	2	
3			c Credit 5 Measurement and Verification	3	
3			c Credit 6 Green Power	3	

Notes:

TLG Engineering
John Mayr - Kamm Consulting
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CONSULTANT:

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COCONUT CREEK, FLORIDA

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DRAWING TITLE:
PROPOSED LEED CHECKLIST

DRAWN	
CHECKED	CPZ
DATE	
SCALE	AS NOTED
PROJECT NO.	1220B
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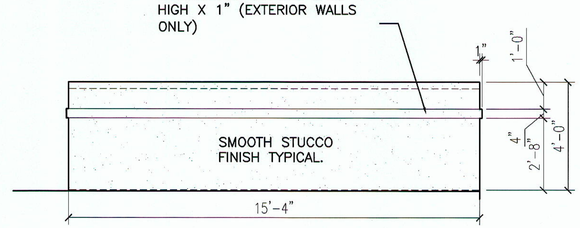
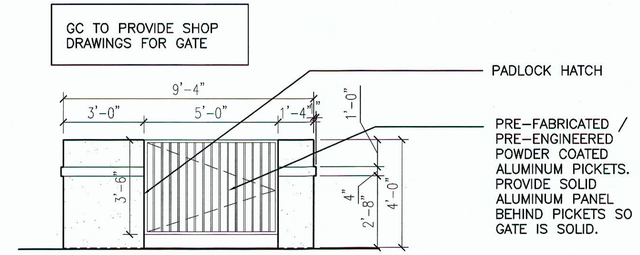
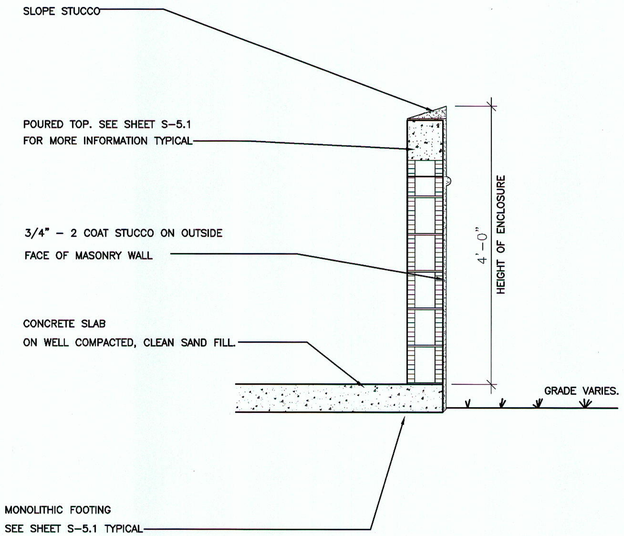
STATE OF FLORIDA
DATE: 4-24-14





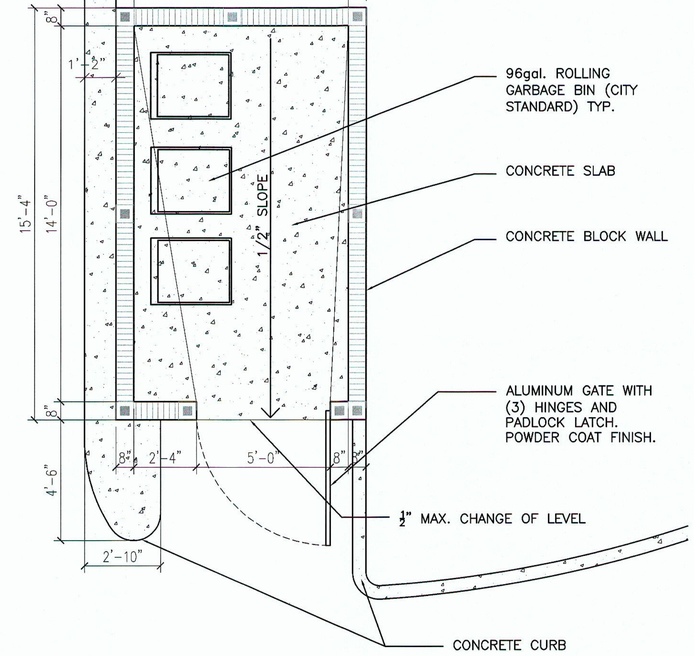
TYPICAL DUMPSTER ELEVATIONS

SCALE: 3/8" = 1'-0"



TYPICAL DUMPSTER WALL SECTION

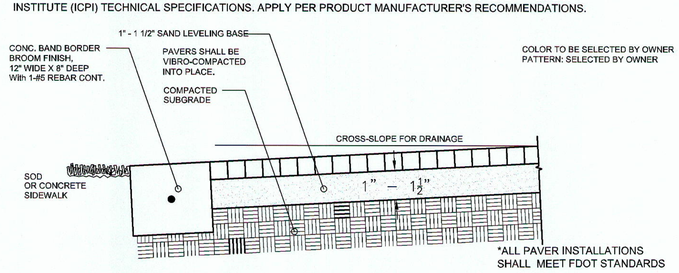
SCALE: 3/8" = 1'-0"



GARBAGE / RECYCLING BIN ENCLOSURE PLAN

SCALE: 3/8" = 1'-0"

*CONTRACTOR SHALL BE RESPONSIBLE TO APPLY URETHANE-TYPE SEALANT TO FINISHED PAVERS FOR HIGH TRAFFIC AREAS. SEALANT SHALL BE APPLIED & APPROVED BY THE INTERLOCKING CONCRETE PAVEMENT INSTITUTE (ICPI) TECHNICAL SPECIFICATIONS. APPLY PER PRODUCT MANUFACTURER'S RECOMMENDATIONS.



TYPICAL BRICK PAVER DETAIL

N.T.S.

NO.	REVISION	DATE
	SITE SUBMITTAL	2-7-2014

CONSULTANT:

PROPOSED NEW FIRE STATION 50 NW 45 AVE.

NW 45 AVE. & COCONUT CREEK PARKWAY
COCONUT CREEK, FLORIDA

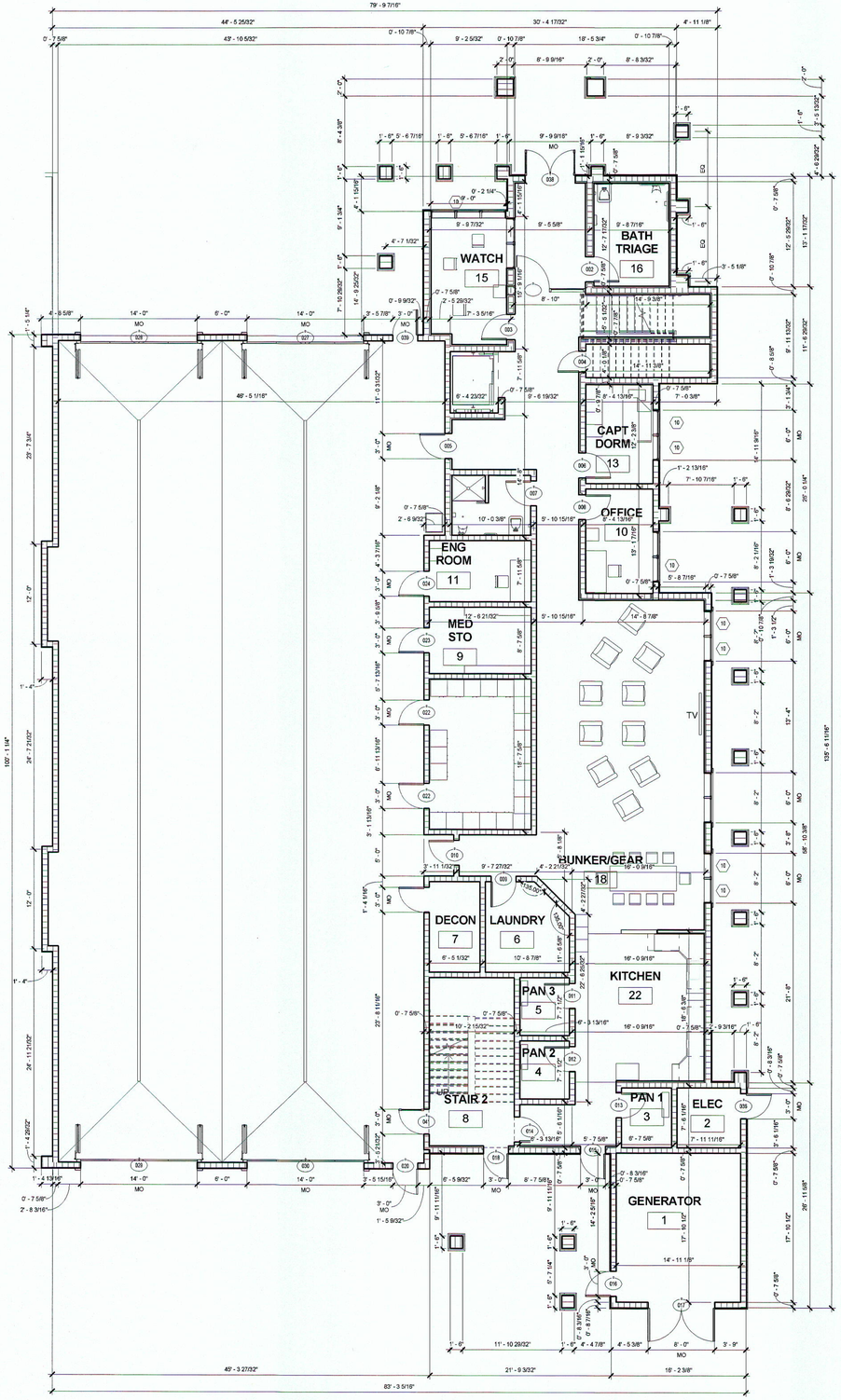
CPZ ARCHITECTS, INC.
4316 WEST BROWARD BOULEVARD
PLANTATION, FLORIDA 33317
PHONE: (954) 792-8525 FAX: (954) 337-0359
AA #26000685 WWW.CPZARCHITECTS.COM

DRAWING TITLE:
DETAILS

DRAWN	CP/GKF
CHECKED	CPZ
DATE	
SCALE	AS NOTED
PROJECT NO.	1220B
SHEET:	SP-4
of:	

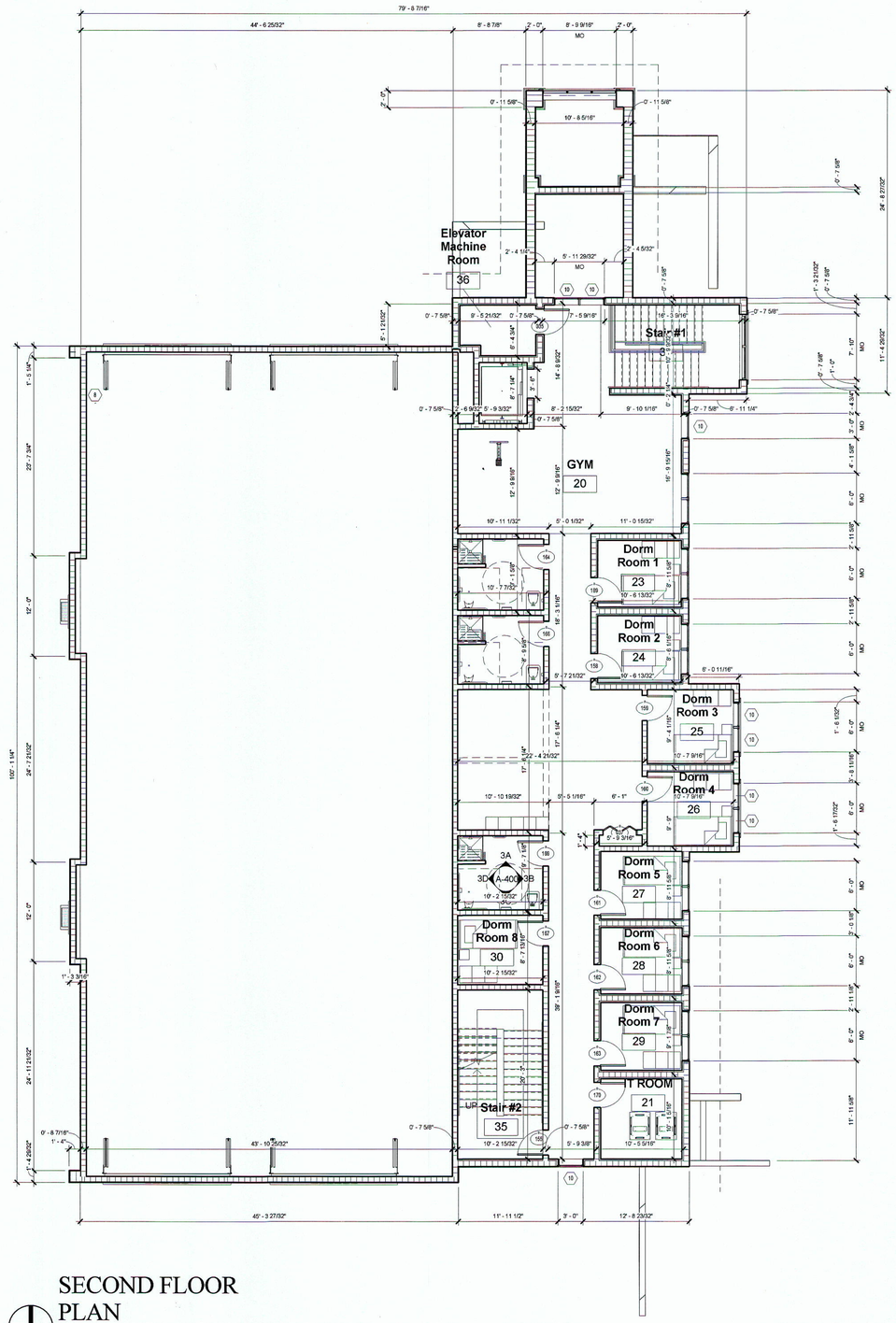
CHRIS P. ZIMMERMAN, A.I.A.
REGISTERED ARCHITECT NO. 10,995
STATE OF FLORIDA
DATE: 4-24-14

AREA SCHEDULE (GROSS BUILDING)		
Name	Level	Area
Aparatus Bay	LEVEL 1	4,013 SF
First Floor	LEVEL 1	4,495 SF
Second Floor	LEVEL 2	3,129 SF
		11,636 SF



FIRST FLOOR PLAN

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



SECOND FLOOR PLAN

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

NO.	REVISION	DATE
	DRC CMNTS	03.17.14

CONSULTANT:

FIRE STATION 50

NW 45 AVE. & COCONUT CREEK PARKWAY, COCONUT CREEK, FLORIDA

CPZ ARCHITECTS, INC.

4316 WEST BROWARD BOULEVARD
PLANTATION, FLORIDA 33317
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DRAWING TITLE:

First & Second Floor Plan

DRAWN: Author

CHECKED: Checker

DATE: 12-26-2013

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

PROJECT NO. 1220D

SHEET:

A-000

CHRIS P. ZIMMERMAN, A.I.A.
REGISTERED ARCHITECT NO. 10,995
STATE OF FLORIDA

DATE: 4-24-14

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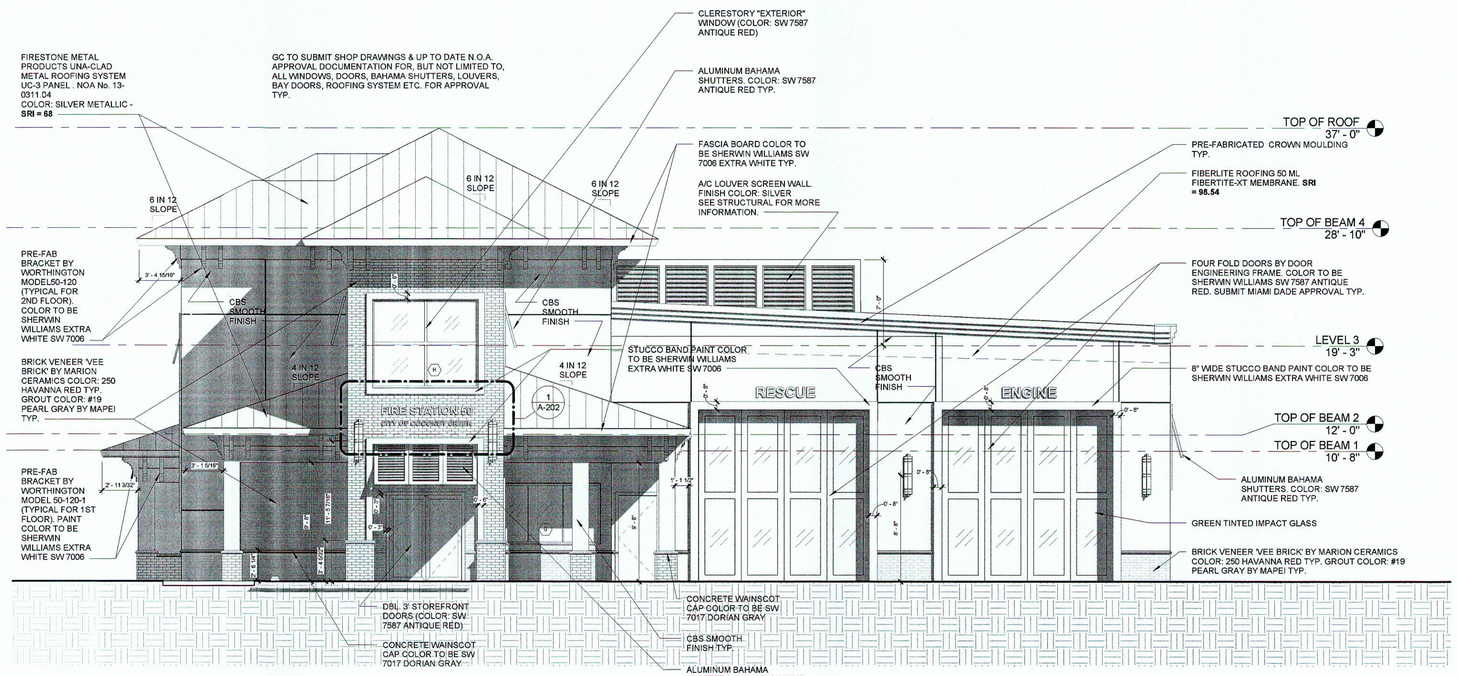
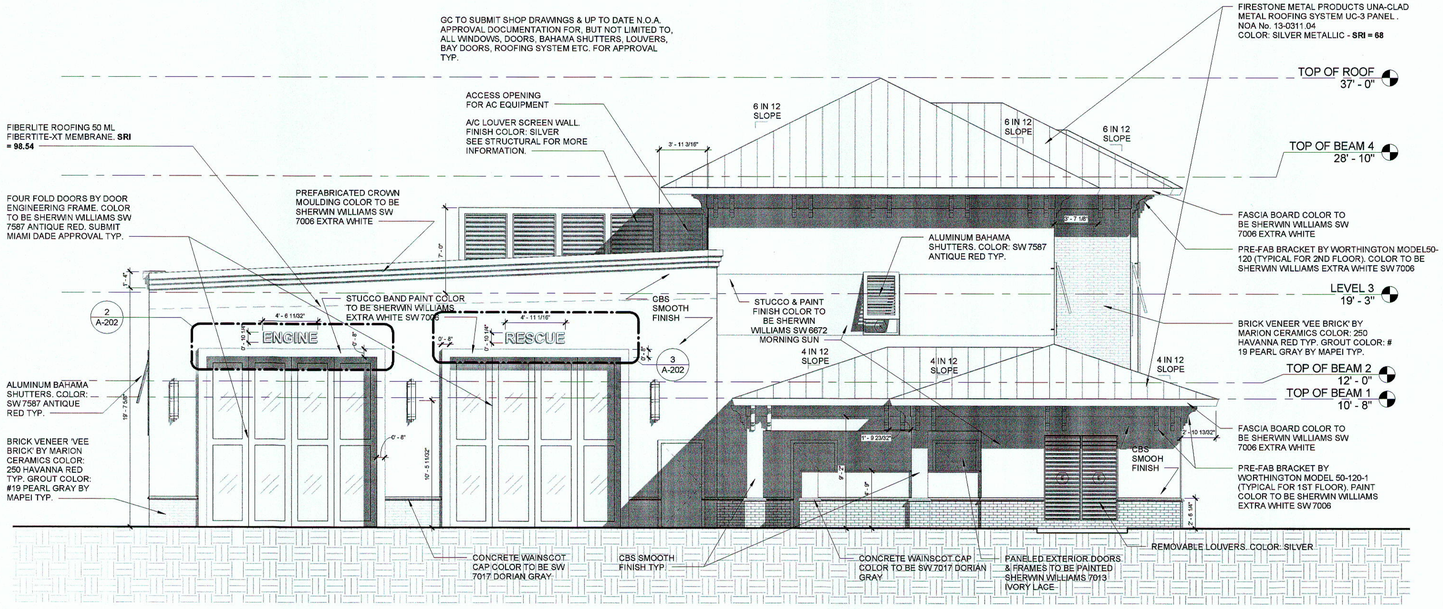


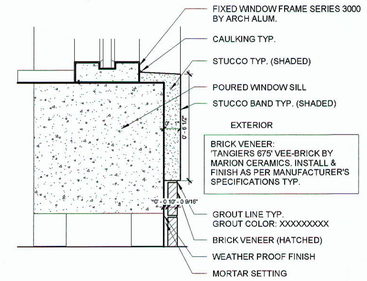
North

SCALE: 3/16" = 1'-0"

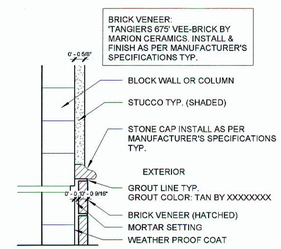


South

SCALE: 3/16" = 1'-0"



STUCCO BAND WINDOW DETAIL



STONE CAP DETAIL

PAINT SPECIFICATION

PART 3.0 EXTERIOR PAINT SCHEDULE

A. CONCRETE, STUCCO, AND CEMENT PLASTER:

1. 100% ACRYLIC COATING:

A. PRIMER: APPLY SHERWIN WILLIAMS LOXON ACRYLIC PRIMER (A24W300) AT A WET FILM THICKNESS OF 8 MILS TO DRY TO 3.2 MILS DRY FILM THICKNESS.

B. FIRST COAT: APPLY SHERWIN WILLIAMS SUPERPAINT EXTERIOR LATEX SATIN (A89 SERIES) AT A WET FILM THICKNESS OF 4 MILS TO DRY TO 1.44 MILS DRY FILM THICKNESS.

C. SECOND COAT: APPLY SHERWIN WILLIAMS SUPERPAINT EXTERIOR LATEX SATIN (A89 SERIES) AT A WET FILM THICKNESS OF 4 MILS TO DRY TO 1.44 MILS DRY FILM THICKNESS.

B. CMU BLOCK

1. 100% ACRYLIC COATING:

A. BLOCK FILLER: APPLY SHERWIN WILLIAMS HEAVY DUTY LATEX BLOCK FILLER (B42W46) AT A WET FILM THICKNESS OF 18-34 MILS TO DRY TO 10-18 MILS DRY FILM THICKNESS, AT AN EFFECTIVE APPLICATION RATE OF APPROXIMATELY 50-88 SF/GAL.

B. FIRST FINISH COAT: APPLY SHERWIN WILLIAMS SUPERPAINT EXTERIOR LATEX SATIN (A89 SERIES AT A WET FILM THICKNESS OF 4 MILS TO DRY TO 1.44 MILSDRY FILM THICKNESS.

C. SECOND FINISH COAT: APPLY SHERWIN WILLIAMS SUPERPAINT EXTERIOR LATEX SATIN (A89 SERIES) AT A WET FILM THICKNESS OF 4 MILSTO DRY TO 1.44 MILS DRY FILM THICKNESS.

C. FERROUS METALS:

1. FULL GLOSS:

A. PRIMER: APPLY SHERWIN WILLIAMS PRO-CRYL UNIVERSAL PRIMER, (B66-310 SERIES), APPLIED AT 5.0-10.0 MILS WET TO ACHIEVE 2.0-4.0 MILS DRY FILM THICKNESS.

B. FIRST COAT: APPLY SHERWIN WILLIAMS SHER-CRYLTM HPA HIGH PREFORMANCE ACRYLIC GLOSS, (B66-300 SERIES), APPLIED AT A WET FILM THICKNESS OF 4 MILS, TO ACHEIVE A DRY FILM THICKNESS OF 1.4

C. SECOND COAT: APPLY SHERWIN WILLIAMS SHER-CRYLTM HPA HIGH GLOSS PREFORMANCE ACRYLIC GLOSS, (B66-300 SERIES), APPLIED AT A WET FILM THICKNESS OF 4 MILS, TO ACHIEVE A CRY FILM THICKNESS OF 1.4.

CHRIS P. ZIMMERMAN, A.I.A.
REGISTERED ARCHITECT NO. 10,995
STATE OF FLORIDA
DATE: 4-24-14

NO.	REVISION	DATE
	50% CD's	04-10-2014
	DRC CMNTS	03.17.14
	DRC CMNTS 2	04.17.14

CONSULTANT:

FIRE STATION 50

NW 45 AVE. & COCONUT CREEK PARKWAY, COCONUT CREEK, FLORIDA

CPZ ARCHITECTS, INC.
4316 WEST BROWARD BOULEVARD
PLANTATION, FLORIDA 33317
PHONE: (954) 792-8325 FAX: (954) 337-0159
AA C000065 WWW.CPZARCHITECTS.COM

DRAWING TITLE:

North & South Elevations

DRAWN: RJMG
CHECKED:
DATE: 04-10-2014
SCALE: As indicated
PROJECT NO. 1220D
SHEET:

A-200

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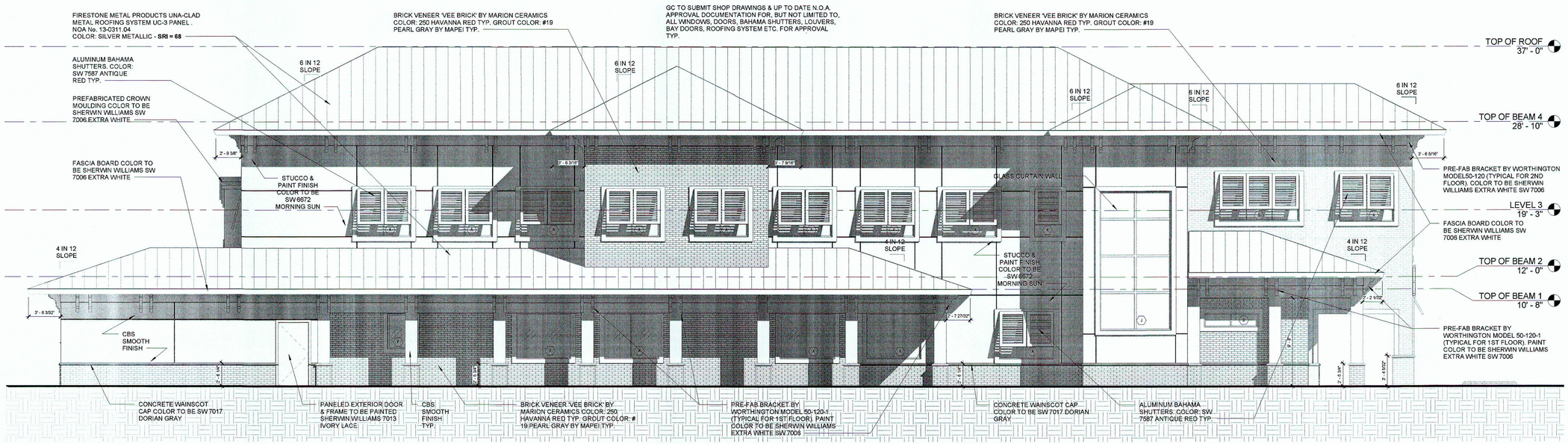

East

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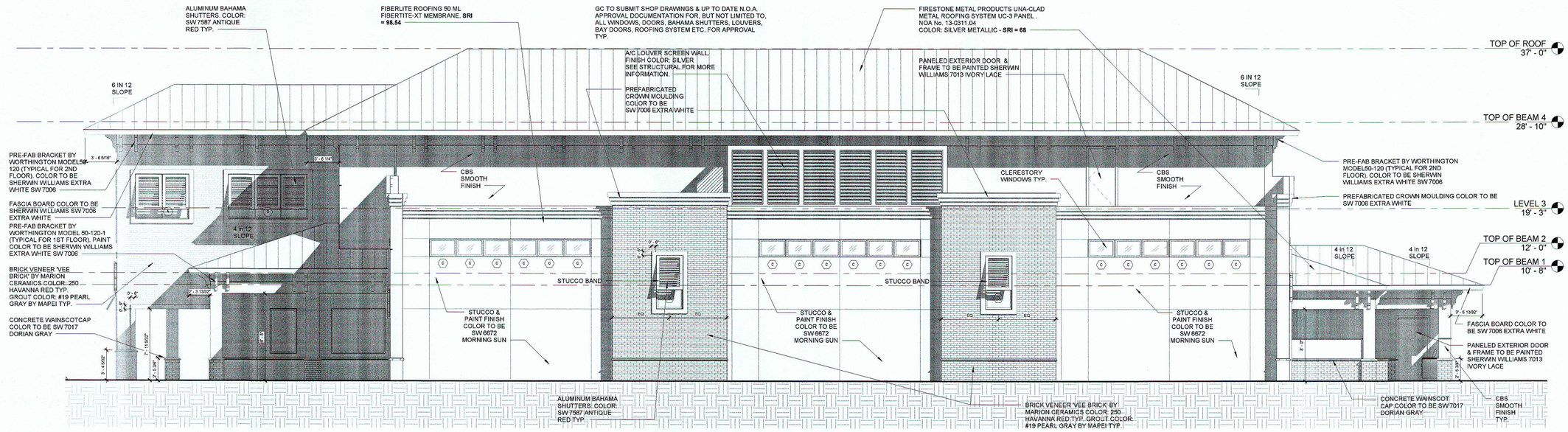

West

SCALE: 3/16" = 1'-0"

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NO.	REVISION	DATE
	50% CD's	04-10-2014
	DRC CMNTS	04.17.14
	DRC CMNTS 2	04.17.14

CONSULTANT:

FIRE STATION 50

NW 45 AVE. & COCONUT CREEK PARKWAY, COCONUT CREEK, FLORIDA

CPZ ARCHITECTS, INC.
4316 WEST BROWARD BOULEVARD
PLANTATION, FLORIDA 33317
PHONE: 954.792.8225 FAX: (954) 337-0159
AA #26000685 WWW.CPZARCHITECTS.COM

DRAWING TITLE:

East & West Elevations

DRAWN: RJMG
CHECKED:
DATE: 04-10-2014
SCALE: 3/16" = 1'-0"
PROJECT NO. 1220D
SHEET:

A-201

CHRIS P. ZIMMERMAN, A.I.A.
REGISTERED ARCHITECT NO. 10,995
STATE OF FLORIDA
DATE 4-24-14

PORTLAND CEMENT PLASTER (STUCCO) SPECIFICATIONS

PART 1 GENERAL

1.1 SECTION INCLUDES
A. PORTLAND CEMENT PLASTER (STUCCO), INCLUDES BUT ARE NOT LIMITED TO, THE FOLLOWING:
1. EXTERIOR AND INTERIOR PORTLAND CEMENT PLASTER.
2. INTERIOR SKIM COAT OVER MASONRY.
B. PORTLAND CEMENT PLASTER FOR INSTALLATION OVER METAL LATH, MASONRY, CONCRETE, AND SOLID BACKING.

1.2 SUBMITTALS
A. SUBMIT PRODUCT DATA AND MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR EACH PRODUCT, INCLUDING DATA SHOWING COMPLIANCE WITH REQUIREMENTS.
B. PROVIDE PRODUCT DATA ON STUCCO MATERIALS AND ACCESSORIES, INCLUDING CHARACTERISTICS AND LIMITATIONS OF PRODUCTS SPECIFIED.
C. MATERIAL CERTIFICATES: SUBMIT PRODUCER'S CERTIFICATE FOR EACH KIND OF PLASTER AGGREGATE INDICATING MATERIALS COMPLY WITH REQUIREMENTS.
D. TEST REPORTS: PROVIDE TEST REPORTS FROM AN INDEPENDENT LABORATORY CERTIFYING THAT CEMENT, SAND AGGREGATE AND OTHER STUCCO MIX COMPONENTS ARE FREE FROM CONTAMINATES AND LOW ALKALINITY.

1.3 QUALITY ASSURANCE
A. APPLICATOR: COMPANY SPECIALIZING IN APPLICATION OF STUCCO WORK AND WITH MINIMUM 3 PROJECTS EQUAL IN SCOPE TO THIS WORK AND 5 YEARS DOCUMENTED EXPERIENCE ON PROJECTS OF SIMILAR SCOPE.
B. EXCEPT AS MODIFIED HEREIN, APPLY CEMENT PLASTER UNDER PROVISIONS OF THE FLORIDA BUILDING CODE, PCA PLASTER (STUCCO) MANUAL, AND ASTM C926. MAINTAIN ONE COPY OF EACH STANDARD ON SITE.

1.4 ENVIRONMENTAL REQUIREMENTS
A. DO NOT APPLY STUCCO WHEN SUBSTRATE OR AMBIENT AIR TEMPERATURE IS LESS THAN 45 DEGREES FAHRENHEIT NOR NO MORE THAN 90 DEGREES FAHRENHEIT, WITH A HUMIDITY INDEX OF LESS 75, OR UP TO 95 DEGREES WITH A HUMIDITY INDEX IS IN EXCESS OF 75.
B. MAINTAIN MINIMUM AMBIENT TEMPERATURE OF 45 DEGREES FAHRENHEIT DURING AND AFTER INSTALLATION OF PLASTER FOR NOT LESS THAN 48 HOURS.
C. PROTECT STUCCO AGAINST UNEVEN AND EXCESSIVE EVAPORATION AND FROM BLASTS OF DRY AIR. APPLY AND CURE STUCCO AS REQUIRED BY CLIMATIC AND JOB CONDITIONS TO PREVENT RAPID DRYOUT. PROVIDE SUITABLE COVERINGS, MOIST CURING, AND BARRIERS TO DEFLECT DIRECT SUNLIGHT AND WIND, OR COMBINATION THEREOF.

1.5 WARRANTY
A. CONTRACTOR, SUB-CONTRACTOR, EACH MATERIAL SUPPLIER: PROVIDE A 5 YEAR UNCONDITIONAL WRITTEN GUARANTEE OR WARRANTY COVERING ALL WORKMANSHIP AND MATERIALS. SAID GUARANTEE: UNDER PROVISIONS OF ALL STIPULATIONS AND REQUIREMENTS STATED IN THE GENERAL CONDITIONS. ALL SUCH GUARANTEES: COMMENCE AT THE DATE OF SUBSTANTIAL COMPLETION AND/OR DATE OF ACCEPTANCE OF PROJECT BY OWNER, AND MUST INCLUDE LABOR AND MATERIALS TO PROVIDE REPAIR OR REPLACEMENT OF STUCCO AND ALL FINISHES INCLUDING PAINTING, SEALANTS, SIGNAGE AND OTHER COMPONENTS.

PART 2 PRODUCTS

2.1 MATERIALS
A. MASONRY CEMENT TYPE S (ASTM C91) OR PLASTIC (STUCCO) CEMENT TYPE S (ASTM C1328).
B. APPROVED MANUFACTURERS OF A PORTLAND STUCCO SYSTEM, WHICH CONTAINS AN INTEGRAL WATER-RETARDING AGENT, CONFORMING TO ASTM C926.
1. MFR: VULCAN MATERIAL; PRODUCT: FLORIDA SUPER STUCCO CEMENT.
2. MFR: CEMEX; PRODUCT: CEMEX BROCO STUCCO CEMENT OR RINKER STUCCO CEMENT.
3. MFR: TITAN AMERICA; PRODUCT: STUCCO CEMENT.
C. AGGREGATE (CONFORMING TO ASTM C897):
1. SAND:
(a) CLEAN, HARD, NATURAL SAND.
(b) MANUFACTURED WITHIN THE FOLLOWING LIMITS:

SIEVE SIZE	PERCENT RETAINED	
NO. 4	MIN 0	MAX 0
NO. 8	MIN 0	MAX 10
NO. 16	MIN 10	MAX 40
NO. 30	MIN 30	MAX 65
NO. 50	MIN 60	MAX 80
NO. 100	MIN 75	MAX 100
NO. 200	MIN 90	MAX100

D. WATER FOR MIXING AND CURING PORTLAND CEMENT PLASTER: POTABLE, CLEAN, FREE OF CONTAMINANTS SUCH AS: OIL, ACIDS, ALKALI, VEGETABLE MATTER, SALTS OR OTHER DELETERIOUS MATERIALS.

2.2 ADMIXTURES
A. BONDING AGENT:
1. A NON-RE-EMULSIFIABLE ACRYLIC EMULSION. TO BE USED AS INTEGRALLY MIXED PRODUCT WHEN RECOMMENDED BY THE PORTLAND CEMENT-BASED STUCCO MANUFACTURER.
(a) PRODUCTS:
(1) MFR: BASF; PRODUCT: THOROSEAL/ACRYL 60.
(2) MFR: DANA MARINE LAB, INC.; TUF-LINK.
(3) MFR: LAMBERT, INC.; PRODUCT: ACRYLBOND.
2. DELIVER PRODUCTS TO JOB SITE PREMIXED IN THE WATER AT SPECIFIED RATIOS.
B. GLASS FIBERS: ALKALI RESISTANT GLASS FIBERS CONFORMING TO ASTM C1116 (100 PERCENT VIRGIN POLYPROPYLENE IN MICROFILAMENT FORM): MICRO FIBER BY GRACE CONSTRUCTION PRODUCTS.
1. SUBSTITUTIONS:
(a) WILL BE CONSIDERED BY THE A/E AND OWNER WHEN SUBMITTED PER REQUIREMENTS OF DIVISION-0, DIVISION-1, AND SECTION 01630-PRODUCT SUBSTITUTION PROCEDURE.

2.3 LATH
A. MANUFACTURER: TILATH, AS MANUFACTURED BY ALABAMA METAL INDUSTRIES CORPORATION (AMICO), OR UNITED STATES GYPSUM COMPANY (USG). COMPLY WITH ASTM C847.
1. SUBSTITUTIONS:
(a) WILL BE CONSIDERED BY THE A/E AND OWNER WHEN SUBMITTED.
B. METAL LATH: GALVANIZED
1. FOR OVERHEAD INSTALLATION: 3/8-INCH RIB LATH, 3.4 POUNDS PER SQUARE YARD.
2. FOR VERTICAL STUCCO INSTALLATION: DIAMOND MESH, 3.4 POUNDS PER SQUARE YARD.
C. PAPER-BACKED WIRE FABRIC LATH: FS-UU-B-690A, TYPE I, GRADE D, STYLE 2, ASPHALT IMPREGNATED PAPER FACTORY-BONDED TO BACK; USG PAPER BACKED METAL LATH.
D. FASTENERS: CLIPS, SCREWS, NAILS, STABLES, WIRE TIES, LOOPS, POWER ACTUATED FASTENERS, AND AS RECOMMENDED BY THE MANUFACTURER OF THE LATH SYSTEM. COMPLY WITH ASTM C1063.

2.4 FRAMING
A. CHANNELS: COLD ROLLED STEEL, 16 GAGE, GALVANIZED.
1. MAIN RUNNER: 1-1/2 INCH, 475 POUNDS/1000 FEET.
2. CROSS FURRING CHANNELS: 3/4 INCH, 300 POUNDS/1000 FEET.
2.5 HANGERS
A. TIE WIRE: CONFORM TO ASTM A 641 WITH CLASS I ZINC COATED (GALVANIZED), SOFT TEMPERED STEEL.
1. SUPPORT OF MAIN RUNNERS: NO. 9 GAGE.
2. SUPPORT OF CROSS FURRING: NO. 18 GAGE.
3. SUPPORT OF WIRE LATH: NO. 18 GAGE.
B. ROD: COLD DRAWN, MILD STEEL, GALVANIZED, 1/4 INCH DIAMETER.
C. STRAP: FLAT MILD STEEL, GALVANIZED, 3/16 INCH X 1 INCH.

2.6 ACCESSORIES
A. MANUFACTURERS
1. ACCEPTABLE MANUFACTURERS: SUBJECT TO COMPLIANCE WITH THE SPECIFIED REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING MANUFACTURERS:
(a) PLASTIC COMPONENTS, INC. (PCI)
(b) VINYL CORPORATION.
2. SUBSTITUTIONS:
(a) WILL BE CONSIDERED BY THE PROJECT CONSULTANT AND OWNER WHEN SUBMITTED.
B. ACCESSORIES, BEADS, AND MOLDINGS (MAY BE USED ON WIRE LATH AND/OR INTERIOR APPLICATIONS ONLY): EXTRUDED POLYVINYLCHLORIDE (PVC). PROVIDE IN PROFILE AND LOCATIONS SHOWN ON DRAWINGS.

PART 3 EXECUTION

3.1 EXAMINATION
A. VERIFY THAT SURFACES AND SITE CONDITIONS ARE READY TO RECEIVE WORK.
B. VERIFY ALL SURFACES TO RECEIVE PLASTER ARE TRUE AND PLUMB WITHIN THEIR ALLOWABLE TOLERANCE. NOTIFY PROJECT CONSULTANT AND OWNER IF DEFICIENCIES EXIST. SUBMIT PROPOSED REMEDY OF DEFICIENCIES TO PROJECT CONSULTANT. DO NOT PROCEED WITH WORK OF THIS SECTION WITHOUT ACCEPTANCE OF PROPOSED REMEDY BY THE PROJECT CONSULTANT.
C. CONCEALED SUPPORTS, BLOCKING: VERIFY ITEMS HAVE BEEN INSTALLED IN PROPER LOCATIONS.

3.2 PREPARATION
A. PROTECT OTHER WORK AND BUILDING SURFACES FROM SPLATTERED STUCCO.
B. CLEAN ALL EXTERIOR BLOCK SURFACES WITH A ACID BASED MASONRY CLEANER AND WASH MASONRY CLEANER OFF BY PRESSURE WASHING ALL EXTERIOR BLOCK SURFACES WITH A MACHINE PROVIDING 2,500 P.S.I. AT 45 DEGREE ANGLE TO REMOVE ALL FOREIGN MATTER AND FORM OIL FROM MASONRY AND CONCRETE SURFACES. ALL CONCRETE SURFACES SHALL BE PREPARED TO RECEIVE PLASTER TO COMPLY WITH ASTM C926.
C. NOTIFY THE GENERAL CONTRACTOR IN WRITING OF DEFICIENCIES IN THE PLANE TO RECEIVE PLASTER. TUCKPOINT BEE-HOLES IN ALL MASONRY JOINTS AND TUCKPOINT HONEYCOMBING IN CAST-IN-PLACE CONCRETE WITH AN ASTM C270 TUCKPOINT MORTAR TO PROVIDE FLUSH, TRUE SURFACES TO RECEIVE PLASTER.
D. ON EXTERIOR MASONRY AND CONCRETE SURFACES INSTALL TEMPORARY GROUNDS AND SCREEDS AS NECESSARY TO STRIKE OFF PLASTER TO TRUE SURFACES (STRIP-FORMING). THE USE OF PERMANENT CORNER BEADS, FABRICATED CONTROL JOINTS, GROUNDS SCREEDS, RECESSES, ETC. ON EXTERIOR MASONRY AND CAST-IN-PLACE CONCRETE SURFACES ARE NOT ALLOWED, EXCEPT AT BUILDING STRUCTURAL EXPANSION JOINTS.
E. ON WIRE LATH:
1. INSTALL CORNER BEADS, CONTROL JOINTS, EXPANSION JOINTS AND ACCESSORIES INDICATED ON DRAWINGS AND NOTED WITHIN THIS SECTION TRUE AND PLUMB, USING MAXIMUM LENGTHS AVAILABLE. AT INTERSECTIONS OF SUCH JOINTS OR ACCESSORIES, THE VERTICAL ELEMENT SHALL REMAIN CONTINUOUS AND THE HORIZONTAL ELEMENT INTERRUPTED AT SUCH INTERSECTION.
2. ANCHOR CORNER AND CASING BEADS SECURELY TO SUBSTRATE.
3. EXPANSION AND CONTROL JOINTS: TIED TO THE WIRE LATH AND NOT TO SUBSTRATE.
4. WIRE LATH: DO NOT EXTEND THROUGH EXPANSION OR CONTROL JOINTS.
F. APPLICATION OF APPLIED BONDING AGENT.
1. EXTERIOR SURFACES:
(a) DO NOT APPLY BONDING AGENT OF ANY KIND.
(b) DAMPEN EXTERIOR SURFACES PRIOR TO THE APPLICATION OF PLASTER.
(c) VERIFY THE SURFACE IS FREE OF VISIBLE STANDING WATER PRIOR TO INSTALLING PLASTER.

3.3 INSTALLATION-LATHING MATERIALS AND ACCESSORIES
A. INSTALLATION TO CONFORM TO ASTM C1063, EXCEPT AS MODIFIED HEREIN.
B. INSTALL MAIN RUNNERS AT 48 INCHES ON CENTER (MAXIMUM) WITH THEIR SUPPORTS AT 36 INCHES ON CENTER, OR INSTALL MAIN RUNNERS AT 36 INCHES ON CENTER (MAXIMUM) WITH THEIR SUPPORTS AT 48 INCHES ON CENTER. INSTALL MAIN RUNNERS WITHIN 6 INCHES OF WALLS PARALLELING, TO SUPPORT ENDS OF CROSS FURRING. WHERE SYSTEM IS EXPOSED TO WIND UP-LIFT, PROVIDE VERTICAL STIFF LEGS EQUAL TO MAIN RUNNERS OR BETTER AT 8 FEET ON CENTER (MAXIMUM) EACH WAY, OR CLOSER IF REQUIRED DUE TO UPLIFT LOADING.
C. INSTALL CROSS FURRING FOR OVERHEAD APPLICATIONS AT 16 INCHES ON CENTER (MAXIMUM) AND FOR VERTICAL APPLICATION AT 24 INCHES ON CENTER (MAXIMUM). SADDLE TIE FURRING CHANNELS TO EACH MAIN RUNNERS WITH DOUBLED NO. 18 TIE WIRE. THE SPAN OF CROSS FURRING: 48 INCHES ON CENTER (MAXIMUM).
D. APPLY LATH TAUT, WITH LONG DIMENSION PERPENDICULAR TO SUPPORTS. TIE LATH TO SUPPORTS WITH NO. 18 WIRE AT 6 INCHES ON CENTER FOR HORIZONTAL INSTALLATION AND 9 INCHES ON CENTER FOR VERTICAL INSTALLATION.
E. LAP ENDS OF LATH A MINIMUM 1 INCH TO 1-1/4 INCH (MAXIMUM). NEST RIBS OF RIB LATH AT END LAPS. SECURE END LAPS WITH TIE WIRE. END LAPS: SHALL OCCUR OVER SUPPORTS.
F. LAP SIDES OF DIAMOND MESH LATH TOGETHER MINIMUM 1/2 INCH TO 1 INCH (MAXIMUM). NEST OUTSIDE RIBS OF RIB LATH TOGETHER AND SECURE WITH WIRE.
G. PLACE STRIP MESH DIAGONALLY AT CORNERS OF LATHED OPENINGS. SECURE RIGIDLY IN PLACE.
H. WHERE DISSIMILAR MATERIALS ABUT, PROVIDE A CONTINUOUS EXPANSION JOINT AND JOINT MOLDING. WIRE LATH AND SUPPORTS: DO NOT EXTEND THROUGH THE JOINT. AT FRAME CONDITIONS, DOUBLE STUD EACH SIDE OF EXPANSION JOINTS.
I. PLACE EXPANDED CASING BEADS (STUCCO STOP) AT TERMINATION OF STUCCO FINISHES AND FINISHES BETWEEN CONCRETE AND FRAMING. BUTT AND ALIGN ENDS. SECURE RIGIDLY IN PLACE.
J. INSTALL ACCESSORIES TO REQUIRED LINES AND LEVELS.
K. STUCCO SHALL BE CUT BACK 1/4 INCH FROM ALL PENETRATIONS THROUGH THE PLASTER COAT TO ALLOW FOR EXPANSION AND CONTRACTION OF DISSIMILAR MATERIALS. A BACKER ROD AND SEALANTS SHALL BE PLACED IN SEPARATION CREATED.

3.4 CEMENT PLASTER MIXES
A. APPLICATIONS-MASONRY, CONCRETE AND WIRE LATH:
1. DASH-BOND COAT (APPLY ON CONCRETE SURFACES):
(a) ONE BAG (1 CUBIC FEET) OF STUCCO CEMENT.
(b) NOT MORE THAN 2 CUBIC FEET OF DAMP AGGREGATE.
(c) WATER: MIXED WITH BONDING AGENT AT A RATE OF ONE (1) PART-BONDING AGENT TO 2 PARTS WATER.
2. SCRATCH COAT:
(a) ONE BAG OF STUCCO CEMENT.
(b) 2.5 TO 4 CUBIC FEET * OF DAMP AGGREGATE.
(c) WATER (MIXED WITH BONDING AGENT AT A RATE OF 1 PART BONDING AGENT TO 2 PARTS WATER). ** (APPROXIMATELY 7 PERCENT SOLIDS CONTENT).
*THE NUMBER OF SHOVELS OF SAND EQUALING ONE CUBIC FOOT SHALL BE CALIBRATED USING A CUBIC FOOT BOX AND RE-CALIBRATED SEVERAL TIMES A DAY.
** VERIFY THE MIXING OF THE INTEGRAL BONDING AGENT WITH PORTLAND STUCCO SYSTEM MANUFACTURER.
3. BROWN COAT:
(a) ONE BAG OF STUCCO CEMENT.
(b) 3 TO 5 CUBIC FEET OF DAMP AGGREGATE.
(c) 1/2 POUND OF FIBERGLASS FIBERS.
(d) WATER: POTABLE.
4. FINISH COAT:
(a) ONE BAG OF STUCCO CEMENT.
(b) 1.5 TO 3 CUBIC FEET OF AGGREGATE.
(c) WATER: POTABLE.
B. MIXING:
1. MECHANICAL MIXER:
(a) PROVIDE SUFFICIENT HORSEPOWER TO AGITATE THE STIFF STUCCO MIX.
(b) MIXER BLADES: CLEAN AND FREE OF FOREIGN MATERIALS.
(c) THOROUGHLY CLEAN MIXER AFTER EACH MIX.
2. LOAD MATERIALS INTO THE STUCCO MIXER IN THE FOLLOWING ORDER:
(a) 2/3 OF THE WATER.
(b) 1/2 OF THE AGGREGATE.
(c) ALL OF THE STUCCO CEMENT.
(d) 1/2 OF THE AGGREGATE (ALLOW TO MIX 2 MINUTES).
(e) REMAINING WATER.
3. MECHANICALLY MIX CEMENTITIOUS AND AGGREGATE MATERIALS FOR PLASTERS TO COMPLY WITH APPLICABLE REFERENCED APPLICATION STANDARD AND WITH RECOMMENDATIONS OF PLASTER MANUFACTURER. TURN EACH FINISHED MIX FOR AT LEAST 5 MINUTES.
4. DO NOT RETEMPER MIXES AFTER THE INITIAL SET HAS OCCURRED, OR IF MIX HAS BEEN PREPARED MORE THAN 60 MINUTES EARLIER.
5. DO NOT ADD ADMIXTURES OTHER THAN THOSE SPECIFIED HEREIN ON THE JOB SITE.

3.5 STRESS RELIEF
A. MASONRY AND CONCRETE SURFACES:
1. INSTALL CONTROL JOINTS AND EXPANSION JOINTS IN STUCCO WHERE THESE JOINTS OCCUR IN THE WALL SUBSTRATE.
B. INSTALLED WIRE LATH:
1. PROVIDE CONTROL AND EXPANSION JOINTS IN LOCATIONS INDICATED ON DRAWINGS AND SPACED AS FOLLOWS:
(a) IN ANY DIRECTION NOT TO EXCEED 18 FEET ON CENTER.
(b) LIMIT WALL AREA TO 144 SQUARE FEET AND CEILING AREA TO 100 SQUARE FEET.
(c) THE LENGTH TO WIDTH RATIO: NOT TO EXCEED 2-1/2 TO 1.
(d) PROVIDE AN EXPANSION JOINT WHERE STUCCO SUPPORT ON WIRE LATH ABUTS DISSIMILAR MATERIAL.
(e) METAL LATH SHALL BE DISCONTINUOUS BEHIND CONTROL AND EXPANSION JOINT ACCESSORIES.

3.6 PLASTER APPLICATION
A. APPLY CEMENT PLASTER UNDER PROVISIONS OF ASTM C926 AND AS HEREIN MODIFIED.
B. SEQUENCE THE WORK TO ALLOW FOR THE CONTINUOUS APPLICATION OF PLASTER OVER ALL SURFACES, AND INCLUDING WINDOW AND DOOR RETURNS, LOUVERS AND OTHER FEATURES TO PROVIDE UNIFORM THICKNESS AND FINISHES.
C. PLASTER:
1. PROVIDE PORTLAND CEMENT PLASTER (STUCCO), OF THE COMPOSITION INDICATED, TO COMPLY WITH THE FOLLOWING REQUIREMENTS:
(a) DAMPEN MASONRY AND CONCRETE SURFACES BY FOG SPRAYING PRIOR TO INSTALLATION OF DASH-BOND COAT OR SCRATCH COAT. SURFACE: FREE OF VISIBLE WATER BEFORE APPLYING DASH-BOND COAT OR SCRATCH COATS. AS FAR AS POSSIBLE, APPLY EACH COAT IN A CONTINUOUS OPERATION SO AS TO AVOID UNSIGHTLY JOINTING.
(b) WHERE APPLICABLE APPLY DASH-BOND COAT OVER CONCRETE SURFACES, ALLOW TO SET AND MOIST CURE BEFORE APPLICATION OF A SCRATCH COAT. A DASH-BOND COAT IS A THICK SLURRY MIX THAT IS DASHED ON AND PROVIDES A MECHANICAL BOND FOR SUCCEEDING PLASTER. A DASH-BOND COAT SHALL NOT REPLACE ONE OF THE SPECIFIED NUMBERS OF COATS.
(c) SCRATCH, BROWN, AND SKIM COAT BY HAND TROWELLING.
(d) BACK TROWEL EACH COAT, APPLYING WITH HEAVY PRESSURE TO FILL VOIDS, ELIMINATE AIR BUBBLES, AND PROMOTE MECHANICAL BOND.
(e) WHEN THE SCRATCH COAT BECOMES FIRM, SCORE THE ENTIRE SURFACE WITH SCARIFIER TOOL BEFORE INITIAL SET. ON VERTICAL SURFACES SCORE HORIZONTALLY. THE TOOL'S PURPOSE IS TO CREATE A SCORE OF SUFFICIENT WIDTH TO PERMIT INTRUSION OF THE BROWN COAT. NOTE: THE USE OF WIRE COMBS OR BRUSHES FOR SCORING THE SCRATCH COAT IS NOT ALLOWED.
(f) STRIP FORM ALL EXTERIOR CORNERS.
(g) REQUIRED NOMINAL THICKNESS: WITH A TOLERANCE OF ZERO TO PLUS 1/8 INCH PER COAT.
(1) THREE-COAT WORK ON METAL PLASTER BASE:

	VERTICAL SURFACES	HORIZONTAL SURFACES
(a)		
(b)	SCRATCH COAT	3/8 INCH 1/4 INCH
(c)	BROWN COAT	3/8 INCH 1/4 INCH
(d)	FINISH COAT	1/8 INCH* 1/8 INCH*
(e)	TOTAL	7/8 INCH* 5/8 INCH*

* PLUS ANY RAISED TEXTURE FINISHES. NOTE: ON WIRE LATH, THE SCRATCH COAT SHALL EXTEND 1/4 INCH BEYOND THE LATH.

(2) THREE-COAT WORK ON MASONRY AND POURED CONCRETE:

	VERTICAL SURFACES	HORIZONTAL SURFACES
(a)		
(b)	SCRATCH COAT	1/4 INCH -
(c)	BROWN COAT	1/4 INCH -
(d)	FINISH COAT	1/8 INCH* -
(e)	TOTAL	5/8 INCH 3/8 INCH*

* PLUS ANY RAISED TEXTURE FINISHES.

(3) THREE-COAT WORK ON METAL PLASTER BASE ON SOLID BASE:

	VERTICAL SURFACES	HORIZONTAL SURFACES
(a)		
(b)	SCRATCH COAT	1/2 INCH 1/2 INCH
(c)	BROWN COAT	1/4 INCH 1/4 INCH
(d)	FINISH COAT	1/8 INCH* 1/8 INCH*
(e)	TOTAL	7/8 INCH 7/8 INCH

* PLUS ANY RAISED TEXTURE FINISHES. NOTE: ON WIRE LATH, THE SCRATCH COAT SHALL EXTEND 1/4 INCH BEYOND THE LATH.

2. STUCCO FINISHES TO MATCH EXISTING.
3. STUCCO SURFACES TO BE STRAIGHT-EDGED, WITH JAMBS AND ANGLES STRAIGHT AND TRUE.
D. MISCELLANEOUS:
1. ENSURE ALL SURFACES ARE CLEAN AND FREE OF HARMFUL MATERIALS BEFORE APPLICATION OF STUCCO.
2. APPLY COATING CONTINUOUSLY WITHOUT ALLOWING MIX TO DRY AT EDGES.
3. FULLY STUCCO ALL EXTERIOR EXPOSED OR PROJECTING CONCRETE UNLESS OTHERWISE INDICATED.

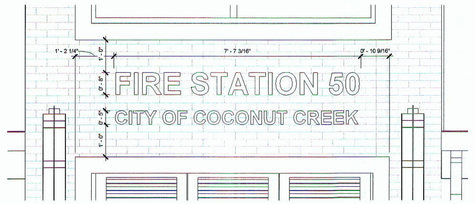
3.7 CURING
A. PROVIDE SUFFICIENT MOISTURE TO ALL COATS TO PERMIT CONTINUOUS HYDRATION OF THE CEMENTITOUS MATERIALS.
B. MOIST CURING OF PLASTER:
1. LIGHTLY MIST THE STUCCO USING A NURSERY-FOGGING NOZZLE OR WITH PRESSURE TANK NURSERY SPRAYER TO MAINTAIN LIGHTLY DAMP CONDITION. DO NOT OVER WET.
2. THE STUCCO SURFACES; NEVER SATURATE OR DIRECTLY SPRAY WITH JETTED WATER.
3. ENSURE THERE IS NO VISIBLE WATER ON THE SURFACE WHEN PLASTER IS APPLIED.
C. AFTER APPLYING THE SCRATCH COAT APPLY EACH SUCCEEDING COAT(S) (BROWN OR FINISH COAT) AFTER THE COAT IN PLACE HAS BECOME SUFFICIENTLY RIGID TO RESIST CRACKING, THE PRESSURES OF THE NEW COAT BEING APPLIED AND THE LEVELING PROCESS, AND FIRM TO THE TOUCH. MOIST CURE EACH COAT UNTIL THE NEXT COAT IS READY TO BE APPLIED. DO NOT SATURATE THE STUCCO.
D. AFTER APPLYING FINISH COAT, MOIST CURE A MINIMUM OF 3 TIMES A DAY FOR A MINIMUM OF 3 - 5 DAYS AS DICTATED BY WEATHER OR AS NECESSARY TO REACH THE REQUIRED PH LEVEL TO RECEIVE PAINT. MAINTAIN FINISHED WORK IN A CONTINUOUSLY MOIST CONDITION BY PH TESTING UNTIL TEST READING IS 8-10. MAINTAIN A WRITTEN AND PHOTOGRAPHIC RECORD OF EACH SUCH TEST.
E. MOIST CURING OF PLASTER MUST BE DONE BY THE PLASTER/STUCCO APPLICATOR (A.K.A. THE PLASTERER).
F. COMPLY WITH ASTM C926.

3.8 REPAIRING
A. SOUNDING SURFACES:
1. SOUND OUT ALL STUCCO ON MASONRY AND POURED CONCRETE BY DRAGGING A SMALL HAMMER (4 OZ BALL PEEN) OVER THE SURFACE.
2. MARK ALL HOLLOW SOUNDING SURFACES THAT INDICATE A NON-BONDING OF SUBSTRATE.
B. CUTTING AND PATCHING:
1. CUT, PATCH, POINT-UP, AND REPAIR REMOVED PLASTER AS NECESSARY TO ACCOMMODATE OTHER WORK AND TO RESTORE CRACKS, DENTS, AND IMPERFECTIONS.
2. REMOVE PLASTER TO ELIMINATE BLISTERS, BUCKLES, EXCESSIVE CRAZING, AND CHECK CRACKING, DRY OUT, EFFLORESCENCE, SWEAT-OUT AND SIMILAR DEFECTS, AND WHERE BOND TO SUBSTRATE HAS FAILED, REPLACE PLASTER MATCHING ADJACENT SURFACES.

3.9 PAINTING
A. PRIOR TO PAINTING PLASTER, ENSURE THE MOISTURE CONTENT OF THE PLASTER IS LESS THAN THAT RECOMMENDED BY THE PAINT MANUFACTURER AND THE PH OF THE PLASTER IS LESS THAN 10. VERIFY THE MOISTURE CONTENT USING AN ELECTRONIC MOISTURE METER AND THE PH USING A PH PENCIL. TEST EVERY 1,000 SQUARE FEET.

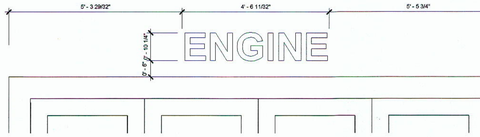
3.10 CLEANING
A. REMOVE TEMPORARY PROTECTION AND ENCLOSURE OF OTHER WORK.
B. PROMPTLY REMOVE PLASTER FROM DOORFRAMES, WINDOWS, AND OTHER SURFACES, WHICH ARE NOT TO BE PLASTERED.
C. REPAIR FLOORS, WALLS AND OTHER SURFACES, WHICH HAVE BEEN STAINED, MARRED, OR OTHERWISE DAMAGED DURING PLASTERING WORK.
D. WHEN PLASTERING WORK IS COMPLETED, REMOVE UNUSED MATERIALS, CONTAINERS AND EQUIPMENT, AND CLEAN FLOORS OF PLASTER DEBRIS.

3.11 PROTECTION
A. PROVIDE FINAL PROTECTION AND MAINTAIN CONDITIONS, WHICH ENSURES PLASTER WORK BEING WITHOUT DAMAGE OR DETERIORATION AT TIME OF SUBSTANTIAL COMPLETION.



1 A-202 ENLARGED MAIN SIGN
SCALE: 1/2" = 1'-0"

NOTE: ALL LETTERING FONT TO BE ARIAL.
FINISH TO BE ALUMINUM FINISH.
RAISED 1-1/2".



2 A-202 ENLARGED ENGINE SIGN
SCALE: 1/2" = 1'-0"

3 A-202 ENLARGED RESCUE SIGN
SCALE: 1/2" = 1'-0"

NO.	REVISION	DATE
	50% CD's	04-10-2014
	ORC CMNTS 2	04.17.14

CONSULTANT:

FIRE STATION 50
NW 49 AVE. & COCONUT CREEK PARKWAY, COCONUT CREEK, FLORIDA

CPZ ARCHITECTS, INC.
4316 WEST BROWARD BOULEVARD
PLANTATION, FLORIDA 33317
PHONE: (954) 792-8825 FAX: (954) 357-0159
AA 26000680 WWW.CPZARCHITECTS.COM

DRAWING TITLE:

Stucco Specifications & Details

DRAWN: RJMG
CHECKED: Checker
DATE: 04-10-2014
SCALE: As indicated
PROJECT NO. 1220D
SHEET:

A-202

CHRIS P. ZIMMERMAN, A.I.A.
REGISTERED ARCHITECT NO. 10,995
STATE OF FLORIDA
DATE: 4-24-14

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4/16/2014 6:56:27 AM

SUMMARY OF CONTRACT QUANTITIES

ITEM	SECT.	DESCRIPTION	UNIT	BID QUANTITY TOTAL	C.O.	FINAL
1		MOBILIZATION	LS	1		
2		MAINTENANCE OF TRAFFIC	LS	1		
3		CLEARING + GRUBBING	ACRE	0.79		
4		REMOVAL OF EXISTING ASPHALT	SY	1200		
5		REMOVAL OF EXISTING CURB	LF	170		
6		EROSION CONTROL SYSTEM (INSTALL + MAINTAIN)	LS	1		
7		FILL MATERIAL / EMBANKMENT (BLDG + PARKING DRIVE)	CY			
8		FILL MATERIAL / EMBANKMENT (GRASS AND SWALES)	CY			
9		EXCAVATION	CY			
10		2" BITUMINOUS S-3 ASPHALT: 2 LIFTS	TN	66		
11		BITUMINOUS PRIME COAT	GAL	90		
12		BITUMINOUS TACK COAT	GAL	30		
13		8" LIMEROCK BASE COURSE	SY	3350		
14		12" COMPACTED SUBGRADE	SY	3400		
15		8" THICK CONCRETE APRON AREA (4,000 PSI)	SY	1020		
16		4" THK CONCRETE SIDEWALK / RAMPS 5-FT WIDE	SY	60		
17		PERMOUS PAVERS	SY	310		
18		FDOT TYPE 'C' DITCH BOTTOM INLETS	EA	4		
19		STORM DRAINAGE MANHOLE TYPE J BOTTOM	EA	1		
20		TYPE 'D' FDOT CONCRETE CURB (CN-SITE)	LF	600		
21		EXFILTRATION TRENCH SYSTEM (18" HDPE)	LF	130		
22		FDOT CONCRETE PARKING BUMPER (PARKING LOT)	EA	11		
23		6" SOLID WHITE STRIPE PAINTED PAVT MARKING	LF	110		
24		24" STOP BAR STRIPE PAVT MARKING (CN-SITE)	LF	35		
25		DIRECTIONAL ARROW PAINTED PAVT MARKING EACH = 28 SF (CN-SITE)	EA	4		
26		HANDICAPPED WALKWAY PAINTED PAVT MARKING (CN-SITE)	SF	100		
27		24" WHITE SIDEWALK CROSS-WALK PAINTED MARKING (CN-SITE)	LF	120		
28		HC SYMBOL PAINTED MARKING = 4.5 SF (FDOT INDEX 17346)	EA	2		
29		SIGNAGE STOP SIGN (R1-0) ASSEMBLY (CN-SITE)	EA	2		
30		SIGNAGE HANDICAPPED SIGN (F17P-26) ASSEMBLY (CN-SITE)	EA	3		
31		POTABLE WATER SVS. (2" NEW METER, SERVICE LINE, DOUBLE STRAP SADDLE WITH CORP STOP,ETC.)	LS	1		
32		6" GATE VALVE WATER MAIN	EA	5		
33		6"X6" TAP TO EXIST. 6" WATER MAIN	EA	1		
34		6" DOUBLE DETECTOR CHECK VALVE + FIV ASSEMBLY (FIRE PROTECT.)	EA	1		
35		FIRE DEPT. CONNECTION ASSEMBLY, SIAMESE (FIRE PROTECT.)	EA	1		
36		FIRE HYDRANT (INCL. 6" DIP LENGTH)	EA	1		
37		PR. 6" DUCTILE IRON PIPE (DIP) CLASS 50 (INCLUDES ALL BENDS)	LF	105		
38		PR. 6" DUCTILE IRON PIPE (DIP) CLASS 50 (FIRE PROTECTION)	LF	20		
39		PR. 2" POTABLE WATER MAIN	LF	105		
40		6"X2" STRAP SADDLE W/ 2" CORP. STOP CONNECTION TO PR. 2" POTABLE WATER	EA	1		
41		SANITARY SEWER SERVICE CONNECTION TO EXIST. OFF-SITE MANHOLE	EA	1		
42		MANHOLE 4' DIA. SANITARY SEWER	EA	1		
43		4" PVC SCH. 40 SANITARY SEWER (INC. ALL BENDS)	LF	25		
44		4" PVC SCH. 40 SANITARY SEWER	LF	75		
45		SOD(ING) BAHIA (INCL. FERTILIZER + WATERING)	SY	610		
46		BUILDING AND RELATED SYSTEMS (REFER TO ARCH.)	LS	1		
47		LANDSCAPING (REFER TO LANDSCAPE ARCHITECT)	LS	1		
48		TESTING AND CLEANUP	LS	1		
49		TRASH ENCLOSURE (REFER TO ARCHITECT)	LS	1		
50		IRRIGATION SYSTEM (REFER TO LANDSCAPE ARCH.)	LS			

I. APPLICABLE CODES

A. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COCONUT CREEK, BROWARD COUNTY ENVIRONMENTAL PROTECTION DEPARTMENT, FDOT DESIGN STANDARD INDICES (2013) / FDOT SPECIFICATIONS (2013), AND ALL OTHER LOCAL STATE AND NATIONAL CODES WHERE APPLICABLE.

B. ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER AND IN STRICT COMPLIANCE WITH ALL THE REQUIREMENTS OF FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, AND ALL STATE AND LOCAL SAFETY AND HEALTH REGULATIONS.

C. ALL ELEVATIONS SHOWN ON THE CONSTRUCTION DRAWINGS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988, (N.A.V.D.), UNLESS OTHERWISE NOTED.

D. WATER & SEWER SERVICES PROVIDED BY CITY OF MARGATE DEPARTMENT OF ENVIRONMENTAL ENGINEERING SERVICES (DEES) DETAILS AND SPECIFICATIONS SHALL DICTATE WHEN IN CONFLICT WITH THE FOLLOWING SPECIFICATIONS. MARGATE DEES UTILITY DETAILS HAVE BEEN INCLUDED IN THESE CONSTRUCTION DOCUMENTS.

E. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING IF A DEWATERING PERMIT IS REQUIRED FOR ANY OF THE PROPOSED CONSTRUCTION ACTIVITIES. IF A DEWATERING PERMIT IS REQUIRED, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PREPARE AND SUBMIT A DEWATERING REPORT APPLICATION (PREPARED BY A STATE OF FLORIDA LICENSED ENGINEER OR A REGISTERED PROFESSIONAL GEOLOGIST) TO ALL APPLICABLE AGENCIES FOR PERMIT APPROVAL. PROOF OF SUCH COPIES OF THE DEWATERING PERMIT SHALL RESIDE AS THE CONTRACTOR'S RESPONSIBILITY.

II. PRECONSTRUCTION RESPONSIBILITIES

A. UPON THE FORMAL WRITTEN RECEIPT OF THE 'NOTICE TO PROCEED', THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AND THE CITY OF COCONUT CREEK TO ARRANGE A PRECONSTRUCTION CONFERENCE. TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, UTILITY OWNERS, AND ALL DESIGN DISCIPLINES THAT HAVE CREATED THESE CONSTRUCTION DRAWINGS.

B. THE CONTRACTOR SHALL OBIDE BY THE SUNSHINE STATE ONE CALL OF FLORIDA AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION, CALL 811 (www.call811.com).

C. ALL UTILITY EASEMENTS TO BE IDENTIFIED AND SECURED PRIOR TO CONSTRUCTION AS REQUIRED.

D. LOCATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON DRAWINGS WERE DRAWN FROM AVAILABLE RECORDS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE UNDERGROUND UTILITIES OR FOR ANY UNDERGROUND SYSTEMS NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE ELEVATIONS AND LOCATIONS OF EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. IF EXISTING UNDERGROUND UTILITIES FOUND TO CONFLICT WITH THE PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE FIELD ENGINEER SUCH THAT APPROPRIATE MEASURES CAN BE TAKEN TO RESOLVE CONFLICTS.

III. INSPECTIONS

A. THE CONTRACTOR SHALL NOTIFY THE CITY OF COCONUT CREEK ENGINEERING DEPARTMENT, THE ENGINEER OF RECORD AND ANY OTHER GOVERNMENTAL AGENCIES HAVING JURISDICTION, AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION, AND PRIOR TO THE FOLLOWING CONSTRUCTION ITEMS AS APPLICABLE:

1. CLEARING & GRUBBING / ALL EARTHWORK / ROUGH GRADING
2. SANITARY SEWER SYSTEM
3. WATER DISTRIBUTION SYSTEM
4. SUBGRADE
5. LIMEROCK BASE, APPLICATION OF PRIME / TACK MATERIALS
6. ASPHALT PAVEMENT
7. SIDEWALK
8. SUBSTANTIAL COMPLETION AND FINAL WALK THROUGH PUNCHLIST

B. THE CONTRACTOR SHALL ADHERE TO CITY OF COCONUT CREEK, BROWARD COUNTY ENVIRONMENTAL PROTECTION DEPARTMENT AND/OR ANY OTHER GOVERNMENT AGENCY STANDARD PROCEDURE(S) FOR REQUIRED INSPECTIONS (I.E., REQUESTS, ATTENDANCE, ETC.). WHERE REQUIRED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ANY / ALL INSPECTIONS WHERE THE PRESENCE OF THE ENGINEER OF RECORD AND/OR ANY OTHER INDIVIDUAL(S) SPECIFIC PARTICIPATION IS WARRANTED.

IV. SHOP DRAWINGS

A. PRIOR TO CONSTRUCTION SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD AND THE CITY OF COCONUT CREEK FOR ITEMS DEPICTED WITHIN THE PLANS. AS EXAMPLE, BUT NOT LIMITED TO, THE FOLLOWING ITEMS: SANITARY SEWER MANHOLES, SANITARY SEWER PIPE, WATER MAINS, FIRE HYDRANTS, PIPING, VALVES AND ALL REQUIRED ACCESSORIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL OTHER AGENCY APPROVAL(S) AS REQUIRED PER CONTRACT WITH THE CITY OF COCONUT CREEK.

V. TEMPORARY FACILITIES

A. TEMPORARY FACILITIES:

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR THE SUPPLY OF TEMPORARY WATER SERVICE, SANITARY SEWER SERVICE, AND ELECTRICAL THE CONTRACTOR SHALL ADHERE TO AND REVIEW THE CITY'S CODE OF ORDINANCES IF A CONSTRUCTION TRAILER TO BE USED.

2. SAID SERVICES SHALL BE SUPPLIED THROUGHOUT THE DURATION OF THE CONSTRUCTION PHASE PERIOD. REMOVAL OF SUCH ITEMS SHALL BE ALLOWED ONCE SUBSTANTIAL COMPLETION PUNCH-LIST ITEMS ARE ADDRESSED.

B. TRAFFIC REGULATIONS:

1. MAINTENANCE OF TRAFFIC IN THE PUBLIC RIGHTS-OF-WAY SHALL BE IN ACCORDANCE WITH M.U.T.C.D. AND FDOT INDEX 600 (2013). THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND PROCESSING A MOT / TCP PLAN THROUGH APPLICABLE AGENCIES. AT ALL TIMES, THE CONTRACTOR SHALL HAVE A FDOT CERTIFIED MOT PERSON ON-SITE FOR MONITORING THE MOT / TCP LAYOUT. THE CONTRACTOR SHALL SUPPLY SAID PERSON'S FDOT CERTIFICATION TO BOTH THE CITY OF COCONUT CREEK AND THE FIELD ENGINEER PRIOR TO START OF WORK.

2. ALL OPEN TRENCHES AND / OR HOLES ADJACENT TO ROADWAYS, WALKWAYS, SIDEWALKS, BIKE LANES, ETC. SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY ON AND ADJACENT TO SITE.

3. NO OPEN TRENCHES AND / OR HOLES ARE TO BE LEFT OPEN DURING NIGHT TIME HOURS WITHOUT EXPRESSED WRITTEN PERMISSION OF THE CITY OF COCONUT CREEK'S ENGINEER.

4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR ANY NECESSARY CONSTRUCTION OF PAVEMENT MARKING AND SIGNAGE TO ACCOMMODATE AN ALTERNATE SAFE VEHICULAR DRIVING, CYCLING AND/ OR WALKING ROUTE FOR THE PROJECT.

VI. PAVING

A. GENERAL:

1 ALL MUCK AND YELDING MATERIAL WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REMOVED AND REPLACED WITH APPROPRIATE ROADWAY FILL. SAID FILL SHALL BE INSTALLED IN LIFTS, COMPACTED AND GRADED TO CONFORM TO THE REQUIRED CONDITIONS AS SHOWN WITHIN THE PLANS. ALL EARTHWORK SHALL BE COMPACTED TO NOT LESS THAN 100% OF MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR TESTING (AASHTO T-180). ALL STABILIZED EARTHWORK TO CONFORM TO A LIMEROCK BEARING RATIO (LBR) OF 40, OR GREATER.

SUBSOIL EXCAVATION: WHERE MUCK, ROCK, CLAY, OR OTHER MATERIAL WITHIN THE LIMITS OF CONSTRUCTION ARE UNSUITABLE IN ITS ORIGINAL POSITION, EXCAVATE SUCH MATERIAL TO THE CROSS SECTIONS SHOWN IN THE PLANS OR INDICATED BY THE ENGINEER, AND BACKFILL WITH SUITABLE MATERIAL. SHAPE BACKFILL MATERIAL TO THE REQUIRED CROSS-SECTIONS. WHERE THE REMOVAL OF SOILS BELOW THE PRELIMINARY EARTHWORK GRADE IS RECOMMENDED, SEE GEOTECHNICAL TOLERANCE. FROM THE LINES SHOWN IN THE PLANS AS THE REMOVAL LIMITS, OF PLUS OR MINUS 0.2 FEET IN DEPTH AND PLUS OR MINUS 6 INCHES (EACH SIDE) IN WIDTH. CONTRACTOR SHALL ABIDE BY AND MAKE HIMSELF FAMILIAR WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2013, SECTION 120 EXCAVATION AND EMBANKMENT AND 125 EXCAVATION FOR ALL SITE PREPARATION FOR ROADWAYS, STRUCTURES, UTILITY LINES AND PIPING.

2 ALL UNDERGROUND UTILITIES SHALL BE COMPLETED PRIOR TO THE FIRST LIFT OF LIMEROCK BASE.

3 ALL EXISTING PAVEMENT, CUT OR DAMAGED DURING CONSTRUCTION SHALL BE PROPERLY RESTORED AT THE CONTRACTOR'S EXPENSE. MINIMUM ONE FULL LANE SHALL BE RESTORED.

4 WHERE ANY NEW PAVEMENT IS TO BE CONNECTED TO EXISTING PAVEMENT, THE EXISTING EDGE OF PAVEMENT SHALL HAVE A CLEAN SAW CUT AND TACK APPLIED TO EDGE. ALL FINAL AS-BUILT ELEVATIONS, INCLUDING THE ELEVATIONS, VALVE COVERS, ASPHALT GRADES, INVERTS, ETC., SHAL NOT DEVIATE MORE THAN 1" FROM THE PROPOSED ELEVATIONS. IF CORRECTIONS ARE WARRANTED, IT SHALL BE AT THE CONTRACTOR'S EXPENSE.

B. MATERIALS:

1 BASE COURSE SHALL BE CRUSHED LIMEROCK WITH A MINIMUM OF 70% CARBONATES OF CALCIUM AND MAGNESIUM. LIMEROCK TO COMPLY WITH FDOT SPECIFICATIONS 200, 204, 210, AND 230 AS PER FDOT SPECIFICATIONS 2013 EDITION AND PROVIDED BY LIMEROCK.

2 ASPHALT SURFACES SHALL BE TYPE S-III ASPHALTIC CONCRETE, UNLESS OTHERWISE SPECIFIED ON THE PLANS, SHALL BE A MINIMUM OF 2" THICK, INSTALLED IN TWO (2) 1" LIFTS. VIRGIN ASPHALT MUST BE USED FOR THIS PROJECT. RECYCLED ASPHALT PAVEMENT (RAP) IN EITHER LIFT IS PROHIBITED UNLESS WRITTEN CONSENT IS PROVIDED BY PARKLAND WITH A COST SAVINGS DEMONSTRATED, AND WITH THE APPROVAL OF THE ENGINEER OF RECORD. SHOP DRAWING TO BE PROVIDED FOR S-III ASPHALTIC CONCRETE PAVEMENT.

3 SIDEWALK CONSTRUCTION SHALL BE AT LEAST 4" THICK CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28-DAY LABORATORY TESTING. CYLINDERS SHALL BE WARRANTED FOR 3-DAY, 7-DAY, 14-DAY AND THREE (3) 28-DAY BREAKS. ALL CONCRETE SIDEWALKS WITH VEHICULAR USE SHALL BE 6" THICK. SIDEWALK SAWCUT JOINTS AND EXPANSION JOINTS SHALL COMPLY WITH FDOT INDEX (2013) AND FDOT SPECIFICATION 522 (2013). SHOP DRAWING TO BE PROVIDED FOR CONCRETE SIDEWALK.

4 CONCRETE CURBING. FDOT TYPE 'F' AND TYPE 'D' AS SHOWN WITHIN FDOT INDEX 300 (2013). CONCRETE CURBING TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28-DAY LABORATORY TESTING. CYLINDERS SHALL BE WARRANTED FOR 3-DAY, 7-DAY, 14-DAY AND THREE (3) 28-DAY BREAKS. SHOP DRAWING TO BE PROVIDED FOR CONCRETE SIDEWALK.

5 REINFORCED CONCRETE APRON FOR FIRE STATION APPARATUS DRIVES. THE FIRE STATION APRONS SHALL BE COMPRISED OF 8" THICK CONCRETE (NOMINAL SLAB THICKNESS) WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI. CYLINDERS SHALL BE WARRANTED FOR 3-DAY, 7-DAY, 14-DAY AND THREE (3) 28-DAY BREAKS. REINFORCEMENT SHALL BE 6"X6" WIRE WELDED FABRIC W4.0/W4.0. GALVANIZED MESH SHALL NOT BE USED. SHOP DRAWING TO BE PROVIDED FOR REINFORCING AND CONCRETE MIX.

C. INSTALLATION:

1 ALL SUBGRADE COMPACTION FOR PROPOSED DRIVABLE SURFACES (I.E., CONCRETE OF ASPHALT) SHALL BE COMPACTED TO A MINIMUM OF 100% MAXIMUM DRY DENSITY PER MODIFIED PROCTOR TEST RESULTS FROM TESTING LAB (AASHTO T-180). SUBGRADES SHALL HAVE A MINIMUM LIMEROCK BEARING RATIO (LBR) 40.

2 LIMEROCK BASE COURSE MATERIALS SHALL BE A MINIMUM OF 8" THICK FOR PAVED AREAS AND A MINIMUM OF 4" THICK FOR FDOT TYPE "F" CURB AND GUTTER. LIMEROCK BASE COURSE SHALL BE COMPACTED TO A MINIMUM OF 100% MAXIMUM DRY DENSITY PER MODIFIED PROCTOR TEST RESULTS FROM TESTING LAB (AASHTO T-180) AND SHALL HAVE A MINIMUM LIMEROCK BEARING RATIO (LBR) 100.

3 CONSTRUCTION OF ALL DRIVING SURFACES, BOTH ASPHALT PAVEMENT S-III AND CONCRETE APRON SHALL BE IN ACCORDANCE TO THESE PLANS AND ADHERE TO FDOT DESIGN STANDARD INDICES (2013)/FDOT SPECIFICATIONS (2013), AND ALL OTHER LOCAL STATE AND NATIONAL CODES WHERE APPLICABLE.

D. TESTING:

1. THE FINISHED SURFACE OF THE BASE COURSE AND THE PAVEMENT SURFACE SHALL NOT VARY MORE THAN 1/4" FROM STRAIGHT-EDGE TESTING USING A 12FT STRAIGHT EDGE.

2. FIELD TESTS SHALL BE TAKEN BY AN INDEPENDENT TESTING LABORATORY CERTIFIED BY THE STATE OF FLORIDA, WHERE DIRECTED BY THE ENGINEER. ALL FIELD TESTING SHALL BE A COST PAID BY THE CONTRACTOR. ALL FAILED TEST RESULTS SHALL BE TAKEN AT LEAST 24-HRS AFTER FAILURE DETERMINED, OR UPON CONTRACTOR'S SCHEDULE.

3. DENSITY TESTS ON STABILIZED SUBGRADE SHALL BE SUPPLIED TO THE ENGINEER OF RECORD AND THE CITY OF COCONUT CREEK AND APPROVED BEFORE PROCEEDING TO LIMEROCK WORK. DENSITY TESTING SHALL BE CONDUCTED EVERY 200 FEET AND 15 FEET AWAY FROM ALL STRUCTURES.

4. ALL DENSITY TEST RESULTS AND AS-BUILT SURVEY OF THE LIMEROCK BASE SHALL BE PROVIDED TO THE ENGINEER OF RECORD AND APPROVED BEFORE ASPHALT PAVEMENT SHALL COMMENCE.

5. BOTH CONCRETE CYLINDER TESTING AND SOILS TESTING ARE AT THE DISCRETION OF THE FIELD ENGINEER AND/OR CITY OF COCONUT CREEK.

VII. STORM DRAINAGE

A. GENERAL:

1. EXISTING DRAINAGE STRUCTURES SHALL BE ADJUSTED AS NEEDED SHOWN WITHIN THE PLANS.

2. DISTANCES AND LENGTHS SHOW ON PLANS AND PROFILE DRAWINGS ARE REFERENCED TO THE CENTER OF STRUCTURES.

B. MATERIALS:

1 REINFORCED CONCRETE PIPE (R.C.P.) SHALL MEET THE REQUIREMENTS OF ASTM C76, CLASS III, WALL THICKNESS "B" AS DEFINED IN FDOT INDEX 205. RUBBER GASKETS OR OTHER MANUFACTURER SUPPLIED JOINT SEALER SHALL BE USED.

2 PVC A2000 DRAINAGE PIPE, GASKETS, AND JOINTS SHALL CONFORM TO ASTM F949 AND F794. ASTM F477 AND ASTM D3212 RESPECTFULLY AS MANUFACTURED BY CONTECH OR APPROVED EQUAL.

3 ALL DRAINAGE CATCH BASINS AND STRUCTURES SHALL BE PRECAST CONCRETE AND SHALL MEET THE REQUIREMENTS OF ASTM C-478 AND 64T UNLESS OTHERWISE NOTED IN THE PLANS. THE MINIMUM WALL AND SLAB THICKNESS SHALL BE 5 INCHES AND THE MINIMUM REINFORCING SHALL BE NO. 4 BARS AT 12 INCHES EACH WAY UNLESS OTHERWISE INDICATED. DRAINAGE STRUCTURE CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF NO LESS THAN 3,750 PSI AT 28-DAY STRENGTH. SHOP DRAWINGS FOR DRAINAGE STRUCTURES TO BE PROVIDED.

C. INSTALLATION

1 BACKFILL MATERIAL SHALL BE WELL GRADED GRANULAR MATERIAL TAMPED TO A HEIGHT OF 8 INCHES (MINIMUM) ABOVE PIPE AS SHOWN ON THE PLANS. TAMPING TO BE DONE IN LAYERS NOT TO EXCEED 12 INCHES.

2 PROVIDE A MINIMUM PROTECTIVE LAYER OF 18 INCHES OF COVER OVER STORM SEWER PIPE TO AVOID UNNECESSARY DAMAGE DUE TO HEAVY CONSTRUCTION VEHICLE LOADING DURING CONSTRUCTION.

3 THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AT LEAST 7 DAYS BEFORE THE START OF THE CONSTRUCTION FOR THE INSPECTION OF PROPOSED DRAINAGE INSTALLATION TO PROVIDE ASSURANCE THAT ALL SHOP DRAWINGS WERE SUPPLIED, APPROVED AND INITIATE SCHEDULING OF INSPECTIONS.

VIII. WATER DISTRIBUTION SYSTEM AND/OR SEWAGE FORCE MAINS

A. SEPARATION OF WATER AND SEWER MAINS:

1. AS DEMONSTRATED WITHIN THE PLANS, POTABLE WATER LINES SHOULD ALWAYS BE CONSTRUCTED ABOVE SANITARY SEWER LINES WITH AN 18" VERTICAL CLEARANCE.

2. ALL CROSSINGS SHALL BE CONSTRUCTED SO THAT THE SANITARY SEWER PIPE JOINTS AND THE POTABLE WATER MAIN JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING.

3. AS PER THE CITY OF MARGATE STANDARD DETAILS FOUND WITHIN THIS SET OF PLANS, THE CONTRACTOR SHALL SUBMIT SIX (6) COPIES OF SHOP DRAWINGS WITHIN 30-DAYS AFTER THE CONTRACT AWARD BY THE CITY OF COCONUT CREEK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO TRANSMIT SAID SHOP DRAWINGS IN ACCORDANCE TO THE REVIEW TABLE WITHIN CITY OF MARGATE DEPT. OF ENVIRONMENTAL ENGINEERING SERVICES, AND BROWARD COUNTY STANDARDS.

4. WHERE A NEW PIPE CONNECTS WITH AN EXISTING PIPE WITH LESS THAN 18 INCHES VERTICAL CLEARANCE, THE NEW PIPE SHALL BE CONSTRUCTED OF DIP, AND THE CROSSING SHALL BE ARRANGED TO MEET THE PRIOR LISTED REQUIREMENTS.

5. A MINIMUM 10-FT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ALL PARALLEL WATER AND SEWER SERVICES.

6. IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10-FT HORIZONTAL SEPARATION THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN AT AN ELEVATION SUCH THAT THE BOTTOM OF THE WATER LINE IS AT LEAST 18" ABOVE THE TOP OF THE SEWER.

7. CONTRACTOR SHALL MAINTAIN ALL EXISTING WATER AND SEWER SERVICES TO ALL EXISTING FACILITIES DURING CONSTRUCTION.

B. MATERIALS:

1. ALL MATERIALS INSTALLED FOR THE DEVELOPMENT SHALL BE IN COMPLIANCE WITH CITY OF MARGATE DEPARTMENT OF ENVIRONMENTAL AND ENGINEERING SERVICES, AND THE CITY OF COCONUT CREEK. REFER TO CITY OF MARGATE WATER AND SEWER DETAILS WITHIN CONSTRUCTION PLANS.

2. ALL WATER MAIN PIPE, INCLUDING FITTINGS, SHALL BE COLOR CODED OR MARKED BLUE AS A PREDOMINANT COLOR TO DIFFERENTIATE POTABLE WATER FROM RECLAIMED (PURPLE) OR OTHER WATER. UNDERGROUND PLASTIC PIPE SHALL BE SOLID WALL BLUE PIPE, OR SHALL HAVE A CO-EXTRUDED BLUE EXTERNAL SKIN, OR SHALL BE WHITE OR BLACK PIPE WITH BLUE STRIPES INCORPORATED INTO, OR APPLIED TO, THE PIPE WALL. UNDERGROUND METAL OR CONCRETE PIPE SHALL HAVE BLUE STRIPES APPLIED TO THE PIPE WALL. PIPE STRIPED DURING MANUFACTURING OF THE PIPE SHALL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE. STRIPES ARE LOCATED AT NO GREATER THAN 90 DEGREE INTERVALS AROUND THE PIPE. AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IF TAPE OR PAINT IS USED TO STRIPE PIPE DURING INSTALLATION, THE TAPE OR PAINT SHALL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ALONG THE TOP OF THE PIPE. FOR PIPES WITH AN INTERNAL DIAMETER OF 24" OR GREATER, TAPE OR PAINT SHALL BE APPLIED IN A CONTINUOUS LINE ALONG EACH SIDE OF THE PIPE, AS WELL AS ALONG THE TOP OF THE PIPE.

3. DUCTILE IRON PIPE FOR WATER DISTRIBUTION MAINS SHALL CONFORM TO ANSI/AWWA STANDARD C151/A21.51-02 LATEST REVISION, "DUCTILE IRON PIPE, CENTRIFUGALLY CAST IN METAL MOLDS OR "SAND-LINED MOLDS" WITH A MINIMUM WALL THICKNESS OF CLASS 50 FOR 6" AND ABOVE AND CLASS 51 FOR LINES LESS THAN 6", UNLESS OTHERWISE DIRECTED BY THE ENGINEER. PRESSURE CLASS SHALL BE 350 FOR PIPE SIZES 4"-24" AND 250 FOR PIPE SIZES 30"-64". DUCTILE IRON PIPE SHALL BE CEMENT LINED AND SEAL COATED IN ACCORDANCE WITH ANSI/AWWA STANDARD C104/A21.4-03 LATEST REVISION. THE PIPE SHALL BE ADAPTED FOR USE WITH CLASS 250 FITTINGS THROUGH 12" AND FOR CLASS 150 FITTINGS IN SIZES 16" AND OVER.

4. PVC PRESSURE PIPE 4" THROUGH 12" SHALL CONFORM TO ANSI/AWWA STANDARD C900-97 OR LATEST REVISION. PVC PRESSURE PIPE SHALL BE MADE FROM CLASS 12454-A OR CLASS 12454-B VIRGIN MATERIAL AND CONFORM WITH THE OUTSIDE DIAMETER OF CAST IRON PIPE WITH A MINIMUM WALL THICKNESS OF OR SERIES 18. ULTRA VIOLET DEGRADATION OR SUN BLEACHED PIPE WILL BE CAUSE FOR REJECTION.

5. DUCTILE IRON FITTING FOR WATER DISTRIBUTION MAINS SHALL CONFORM TO ANSI/AWWA STANDARD C153/A21.53-00 LATEST REVISION. FITTINGS 4" AND LARGER SHALL BE CEMENT LINED AND SEAL COATED IN ACCORDANCE WITH ANSI/AWWA STANDARD C104/A21.4-03 LATEST REVISION.

6. FITTINGS SHALL BE CAST IRON OR DUCTILE IRON MEETING ANSI/AWWA C-153/A21.53-00 SPECIFICATIONS. FITTINGS MUST BE CEMENT LINED AND SEAL COATED PER ANSI/AWWA C104/A21.4-03.

Water Distribution / Sewage – continued

7. BACKFLOW PREVENTOR TO BE A FEBCO MODEL OR APPROVED EQUAL.

8. a. VALVES SHALL BE GATE VALVES, IRON BODY FULLY RESILIENT SEAT BRONZE MOUNTED NON-RISING STEM (NRS) AT 200 PSI AND CONFORMING TO ANSI/AWWA C509-01 OR LATEST REVISION, AND SHALL HAVE MECHANICAL JOINTS.
b. GATE VALVES 4" AND LARGER SHALL BE MUELLER A-2360-20 OR APPROVED EQUAL RESILIENT SEATED GATE VALVES SHALL BE AMERICAN 80 LINE OR CLOW F-6100 OR APPROVED EQUAL. GATE VALVES CONFORMING TO ANSI/AWWA C509 (LATEST ED.) FOR RESILIENT SEATED GATE VALVES.
c. TAPPING VALVES SHALL BE MUELLER HEAT AND APPROVED EQUAL.
d. GATE VALVES 3" OR LESS SHALL BE NIBCO T-133 OR T-136 WITH MALLEABLE HAND WHEELS OR APPROVED EQUAL.

9. TAPPING SLEEVES SHALL BE MUELLER H615, CLOW F-2505 OR APPROVED EQUAL.

10. VALVE BOXES SHALL BE OPELIKE NO. 19 OR APPROVED EQUAL.

11. FIRE HYDRANTS SHALL BE AMERICAN DARLING B848-5 WITH 5-1/4" INTERNAL VALVE OPENING AS PER NSD. MAIN VALVE OPENING TO BE DETERMINED BY THE WATER DEPARTMENT (NSD). PUMPER NOZZLE TO BE 18" FROM FINISHED GRADE. HYDRANTS TO BE INSTALLED WITH CONTROL VALVE. RETAINER GLANDS ARE PREFERRED FOR RESTRAINING. FIRE HYDRANT SHALL COMPLY WITH ANSI/AWWA C502-05.

12. METALLIC TAPE SHALL BE INSTALLED ONE (1) FOOT ABOVE INSTALLED PVC PRESSURE PIPE TO ENSURE THAT THE PIPE CAN BE LOCATED AFTER BURIAL.

13. CAST IRON AND DUCTILE IRON FITTINGS FOR SEWAGE FORCE MAINS SHALL CONFORM TO ANSI/AWWA STANDARD C153/A21.53-00 OR C110/A21.10-03 LATEST REVISION. FITTINGS 4" AND LARGER SHALL BE COATED IN ACCORDANCE WITH THE REQUIREMENTS OF DUCTILE IRON PIPE FOR SEWAGE FORCE MAINS.

14. PLUG VALVES SHALL BE DESIGNED FOR A WORKING PRESSURE OF150 P.S.I. THE VALVE AND ACTUATOR SHALL BE CAPABLE OF OPERATION IN EITHER DIRECTION OF FLOW AGAINST PRESSURE DROPS UP TO AND INCLUDING 100 P.S.I. (FOR PLUG VALVES OVER 12" DIA.). VALVES SHALL BE BUBBLE TIGHT IN BOTH DIRECTIONS AT 100 PSI DIFFERENTIAL.

15. PLUG VALVES OVER 12" IN DIA. SHALL HAVE WORM GEAR OPERATORS. THE OPERATING MECHANISM SHALL BE FOR BURIED SERVICE WITH A 2" SQUARE OPERATING NUT.

16. PLUG VALVES ARE TO BE INSTALLED WITH THE SEAT POINTED TOWARDS THE UPSTREAM FLOW, WHEN SPECIFIED.

C. SERVICE CONNECTION:

1. SERVICE SADDLES SHALL BE DOUBLE STRAP WITH STAINLESS STEEL STRAPS FOR CONNECTING TO CAST IRON LINES. ALL SERVICE SADDLES SHALL CONFORM TO ANSI/AWWA C111/A21.11-00 AND ASTM A-588.

2. SERVICE LINES SHALL BE POLYETHYLENE TUBING (PE3408), 250 PSI RATED, SER-8 MEETING ASTM D-2239. PIPE JOINTS SHALL BE COMPRESSION TYPE TOTALLY CONFINED GRIP SEAL AND COUPLING NUT.

3. CORPORATION STOP(S) SHALL BE MANUFACTURED OF BRASS ALLOY IN ACCORDANCE WITH

BOUNDARY AND TOPOGRAPHIC SURVEY

SEE SHEET 1 OF 3 FOR SURVEY NOTES, LEGEND, ABBREVIATIONS
SEE SHEET 3 OF 3 FOR TREE TABLE

SURVEYOR'S REFERENCES:

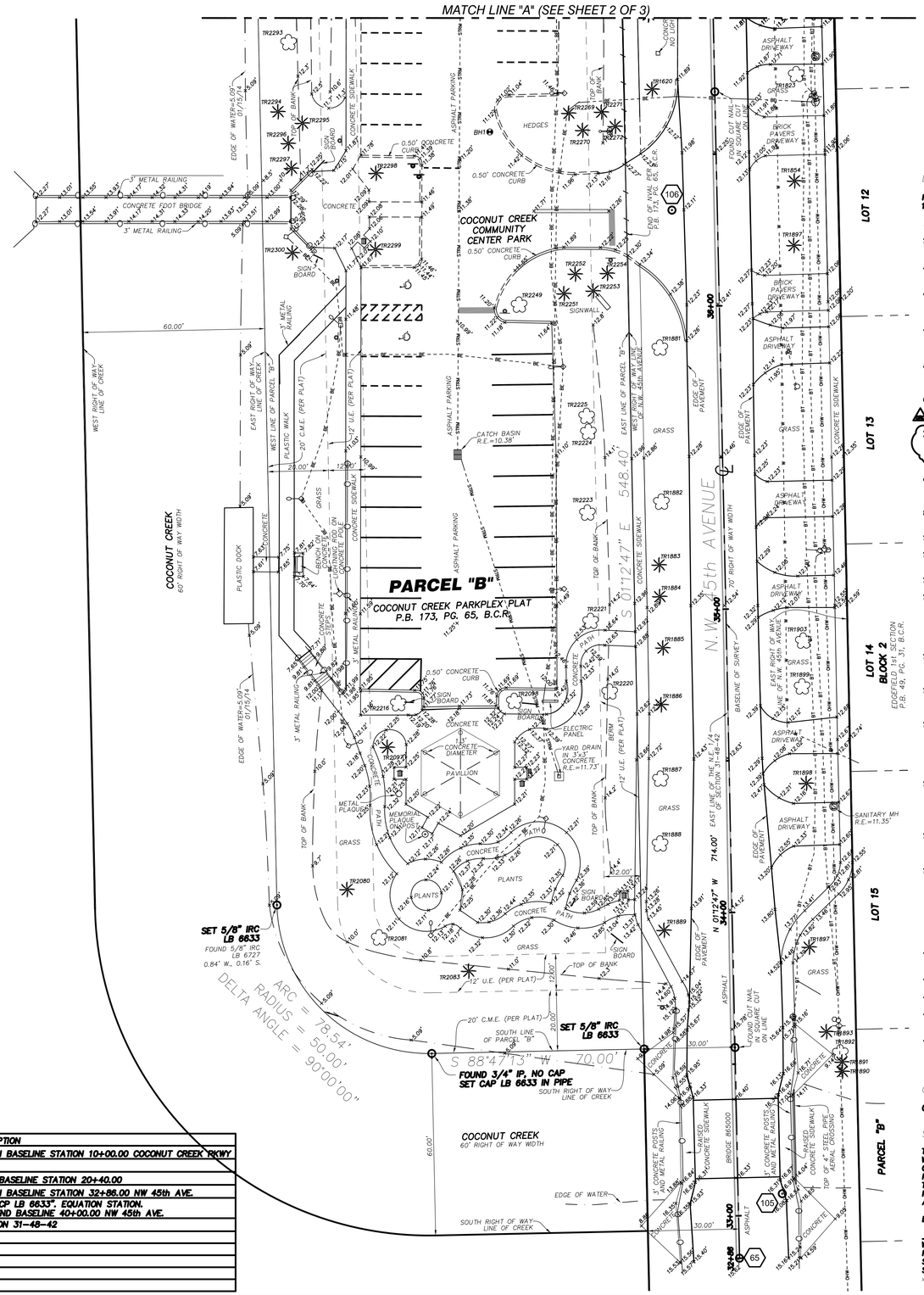
1. COCONUT CREEK PARKPLEX PLAT, RECORDED IN P.B. 173, PG. 65, B.C.R.
2. EDGEFIELD 1st SECTION, RECORDED IN P.B. 49, PG. 31, B.C.R.
3. FLORIDA DEPARTMENT OF TRANSPORTATION RIGHT OF WAY MAP FOR S.R. 814 – COCONUT CREEK PARKWAY SECTION 86130–2506, LAST REVISED 8/22/89 BROWARD COUNTY.
4. BROWARD COUNTY PROPERTY APPRAISER'S NETWORK. BROWARD OFFICIAL RECORDS PUBLIC SEARCH.

ABBREVIATIONS

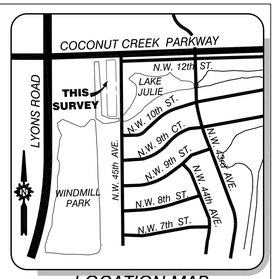
B.C.R.	BROWARD COUNTY RECORDS
O.R.B.	OFFICIAL RECORDS BOOK
P.B.	PLAT BOOK
PG.	PAGE
LB.	LICENSED BUSINESS
S.R.	STATE ROAD
NVAL	NON–VEHICULAR ACCESS LINE
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION
ID.	IDENTIFICATION
PRM	PERMANENT REFERENCE MARKER
IRC	IRON ROD AND CAP
IP	IRON PIPE
U.E.	UTILITY EASEMENT
C.M.E.	CANAL MAINTENANCE EASEMENT
℄	CENTERLINE
MH	MANHOLE
R.E.	RIM ELEVATION
I.E.	INVERT ELEVATION
L1	LINE NUMBER 1 (SEE TABLE)
BH1	BOREHOLE NUMBER 1 (SEE TABLE)

LEGEND

	GUY ANCHOR
	BACKFLOW PREVENTOR
	BORE HOLE
	METAL BENCH
	CATCH BASIN
	CONCRETE LIGHT POLE
	CONCRETE POLE
	FIRE HYDRANT
	GRILL
	STORM DRAINAGE MANHOLE
	SANITARY SEWER MANHOLE
	TELEPHONE MANHOLE
	WATER METER
	POST WITH PEDESTRIAN LIGHT
	SIGN ON POST
	TELEPHONE RISER
	TRASH CAN
	UTILITY MARKER
	WATER VALVE
	ELECTRIC WIRE PULL BOX
	STREET LIGHT WIRE PULL BOX
	TRAFFIC WIRE PULL BOX
	WIRE PULL BOX
	IRRIGATION PUMP
	TRANSFORMER OF CONCRETE PAD
	TELEPHONE CABINET ON CONCRETE PAD
	HANDICAP PARKING SPACE
	5 REGULAR PARKING SPACES
123	PALM TREE # 123 (SEE TREE TABLE)
124	TREE # 124 (SEE TREE TABLE)
105	SPOT ELEVATION
101	CONTROL POINT (SEE TABLE)
	NON–VEHICULAR ACCESS LINE
OHW	OVERHEAD WIRES
BE	BURIED ELECTRIC
BFO	BURIED FIBER OPTIC
BT	BURIED TELEPHONE
BT–DUCT	BURIED TELEPHONE DUCT
BTV	BURIED CABLE TELEVISION
FM	FORCE MAIN
GAS	BURIED GAS
SL	BURIED STREET LIGHT
STRM	STORM DRAINAGE LINE
TS	TRAFFIC SIGNAL
UNK	UNKNOWN LINE



SCALE: 1" = 20'
0 5 10 20 40
GRAPHIC SCALE



LOCATION MAP
NOT TO SCALE

BORE HOLES TABLE

BORE HOLE #	NORTHING	EASTING	ELEVATION
1	695125.84	923561.65	11.21
2	695164.97	923572.42	10.81
3	695218.21	923538.72	11.30
4	695264.95	923501.17	12.28
5	695367.08	923514.68	11.02
6	695285.71	923566.50	11.96
7	695401.40	923583.47	12.89
8	695306.09	923532.95	11.42
9	695507.51	923680.95	13.54

CONTROL POINTS TABLE

CONTROL POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
62	695453.006	923109.110	N/A	SET NAIL & DISC "STONER&ASSOC. PCP LB 6633". BEGIN BASELINE STATION 10+00.00 COCONUT CREEK PKWY
63	695457.397	923332.987	N/A	FOUND BOAT SPIKE. BASELINE PI STATION 12+23.92
64	695487.764	924148.502	N/A	SET NAIL & DISC "STONER&ASSOC. PCP LB 6633". END BASELINE STATION 20+40.00
65	694754.575	923643.978	N/A	SET NAIL & DISC "STONER&ASSOC. PCP LB 6633". BEGIN BASELINE STATION 32+86.00 NW 45th AVE.
66	695468.415	923628.862	N/A	FOUND NAIL HOLE, SET NAIL & DISC "STONER&ASSOC. PCP LB 6633". EQUATION STATION. COCONUT CREEK PKWY BASELINE STATION 15+20.00 = END BASELINE 40+00.00 NW 45th AVE.
101	695477.948	923628.661	N/A	FOUND BOAT SPIKE. N.E. CORNER OF N.E. 1/4 OF SECTION 31–48–42
104	695501.472	923627.992	13.95	SET NAIL & DISC "TRAV.PT. LB 6633"
105	694775.852	923658.091	16.21	FOUND NAIL AND DISC BROWARD COUNTY
106	695100.070	923621.702	12.18	SET NAIL & DISC "TRAV.PT. LB 6633"
107	695389.512	922997.249	13.77	SET NAIL & DISC "TRAV.PT. LB 6633"
108	695530.698	924178.441	13.27	FOUND NAIL & DISC, NO ID. IN ASPHALT

LEGAL DESCRIPTION:

PARCELS "B" AND "D", COCONUT CREEK PARKPLEX PLAT, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 173, AT PAGE 65, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

SURVEY NOTES:

1. THIS SURVEY REPRESENTS A BOUNDARY AND TOPOGRAPHIC SURVEY AS DEFINED BY MINIMUM TECHNICAL STANDARDS FOR SURVEYING AND MAPPING, CHAPTER 5J–17, FLORIDA ADMINISTRATIVE CODES.
2. THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
3. THIS SURVEY IS LIMITED TO (1) THE DOCUMENTATION OF THE PERIMETER OF THE PARCELS OF LAND SHOWN HEREON BY MONUMENTING THE BOUNDARY LINES FOR THE PURPOSE OF DESCRIBING SAID PARCEL. (2) LOCATION OF ABOVE GROUND IMPROVEMENTS. 3) SPOT ELEVATIONS. 4) TREE SURVEY 5) UNDERGROUND UTILITIES LOCATION (MARKED BY OTHERS).
4. THE SURVEYED PROPERTY SHOWN HEREON CONTAINS A TOTAL AREA OF 1.5691 ACRES (68,350 SQUARE FEET).
   PARCEL "B" = 1.5234 ACRES (66,359 SQUARE FEET)
   PARCEL "D" = 0.0457 ACRES (1,991 SQUARE FEET)
5. THE PROPERTY SHOWN HEREON IS LOCATED WITHIN FLOOD ZONE X, AS SHOWN ON FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP NUMBER 12011C0115F, COMMUNITY NUMBER 120031, CITY OF COCONUT CREEK, BROWARD COUNTY, FLORIDA. MAP REVISED DATE: AUGUST 18, 1992.
6. THE SYMBOLS REFLECTED IN THE LEGEND AND ON THIS SURVEY MAY HAVE BEEN ENLARGED FOR CLARITY. THE SYMBOLS HAVE BEEN PLOTTED AT THE CENTER OF THE FIELD LOCATION AND MAY NOT REPRESENT THE ACTUAL SHAPE OR SIZE OF THE FEATURE.
7. THE ELEVATIONS SHOWN HEREON ARE BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), ESTABLISHED FROM BROWARD COUNTY ENGINEERING DIVISION BENCHMARK No. 0248, DESCRIBED AS FOLLOWS: 5RD BRASS DISC IN MIDDLE OF SOUTH CONCRETE BRIDGE RAILING ON WEST SIDE OF BRIDGE. BRIDGE IS LOCATED 150' (+ OR –) WEST OF N.W. 45th AVENUE, AND COCONUT CREEK PARKWAY. ELEVATION = 17.828'.
8. BEARINGS AND DISTANCES SHOWN HEREON ARE PER COCONUT CREEK PARKPLEX PLAT, RECORDED IN PLAT BOOK 173, PAGE 65, PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA. SAID BEARINGS ARE RELATIVE TO THE FLORIDA STATE PLANE COORDINATES SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983.
9. WHEEL STOPS, GROUND COVERAGE. SPRINKLER HEADS AND IRRIGATION WIRE PULL BOXES WERE NOT LOCATED AND ARE NOT SHOWN HEREON.
10. FENCES, RAILINGS, BARRIER WALLS AND WALL DIMENSIONS ARE APPROXIMATE.
11. THE INFORMATION DEPICTED ON THIS SURVEY REPRESENTS THE RESULTS OF A FIELD SURVEY ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS A REPRESENTATION OF THE GENERAL CONDITIONS EXISTING AT THAT TIME.
12. THE SURVEYOR DID NOT INSPECT THE PROPERTY SHOWN HEREON FOR ENVIRONMENTAL HAZARDS.
13. THE STORM DRAINAGE AND SANITARY SEWER AS–BUILT DATA SHOWN HEREON WAS COLLECTED FOR ENGINEERING DESIGN PURPOSES ONLY. THE AS–BUILT DATA IS LIMITED TO RIM ELEVATIONS ONLY. THE CONNECTIONS BETWEEN STRUCTURES WAS OBTAINED BY VISUAL OBERVATIONS WITHOUT REMOVING THE LIDS, WERE NOT INSPECTED AND THE CONDITION OF THE PIPES WAS NOT DETERMINED. CRITICAL ELEVATIONS AND DIMENSIONS SHOULD BE VERIFIED WITH THE FACILITIES PUMPED DOWN AND CLEANED OUT TO FACILITATE ACCURATE COLLECTION OF AS–BUILT DATA. THE SIZE AND TYPE OF PIPES SHOULD BE OBTAINED AND CONFIRMED BEFORE ORDERING REPLACEMENT PIPES OR CONNECTING PIPES.
14. BOREHOLES WERE LOCATED DURING THE PROCESS OF THE SURVEY AT LOCATIONS WERE RECENT GEOTECHNICAL WORK HAS BEEN PERFORMED. A FINAL SKETCH OF BOREHOLES LOCATIONS WAS NOT SUPPLIED TO SURVEYOR AT TIME OF SURVEY.
15. UNDERGROUND UTILITIES WERE MARKED ON THE SURFACE BY KEITH & ASSOCIATES, INC., CONSULTING ENGINEERS AND LOCATED BY STONER & ASSOCIATES. STONER & ASSOCIATES, INC. IS NOT RESPONSIBLE FOR THE IDENTIFICATION OR ACCURACY OF UNDERGROUND UTILITIES.
16. THIS FIRM HAS IDENTIFIED VARIOUS TYPES OF TREES LOCATED ON THIS SITE BASED ON COMMON KNOWLEDGE OF TREE SPECIES. A QUALIFIED LANDSCAPE ARCHITECT SHOULD BE EMPLOYED FOR POSITIVE IDENTIFICATION OF TREE SPECIES. TREE DIAMETERS ARE APPROXIMATE AND WERE MEASURED AT BREAST HEIGHT. ONLY TREES 3 CALIPER INCHES IN DIAMETER OR LARGER WERE LOCATED AND SHOWN ON THE SURVEY. HEDGES AND GROUND COVER WERE NOT LOCATED AND ARE NOT SHOWN. EXOTIC TREES SUCH AS MELALEUCA, BRAZILIAN PEPPER AND AUSTRALIAN PINE WERE NOT LOCATED OR SHOWN HEREON.
17. THIS SURVEY IS LIMITED TO THE LOCATION OF ABOVE GROUND IMPROVEMENTS ONLY. SUBSURFACE UTILITIES, FOUNDATIONS AND ENCROACHMENTS WERE NOT LOCATED AND ARE NOT SHOWN HEREON. THIS SITE COULD HAVE UNDERGROUND INSTALLATIONS THAT ARE NOT SHOWN HEREON. BEFORE DESIGN, CONSTRUCTION OR EXCAVATION, CONTACT SUNSHINE STATE ONE CALL OF FLORIDA (811 OR 1–800–432–4770) AND THE APPROPRIATE UTILITY COMPANIES FOR FIELD VERIFICATION OF UTILITIES.
18. STONER & ASSOCIATES, INC., DID NOT SEARCH THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA FOR OWNERSHIP, RIGHTS–OF–WAY, EASEMENTS OR OTHER MATTERS AFFECTING THE PROPERTY BEING SURVEYED. THERE MAY BE ADDITIONAL RESTRICTIONS NOT SHOWN ON THIS SURVEY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY.
19. THE INFORMATION CONTAINED IN THIS DOCUMENT WAS PREPARED BY STONER & ASSOCIATES, INC. (S&A). S&A HAS TAKEN ALL REASONABLE STEPS TO ENSURE THE ACCURACY OF THIS DOCUMENT. WE CANNOT GUARANTEE THAT ALTERATIONS AND/OR MODIFICATIONS WILL NOT BE MADE BY OTHERS AFTER IT LEAVES OUR POSSESSION. THIS DOCUMENT MUST BE COMPARED TO THE ORIGINAL HARD COPY (WHICH BEARS THE RAISED SURVEYOR'S CERTIFICATION SEAL IF APPLICABLE) TO ENSURE THE ACCURACY OF THE INFORMATION CONTAINED HEREON AND TO FURTHER ENSURE THAT ALTERATIONS AND/OR MODIFICATIONS HAVE NOT BEEN MADE. S&A MAKES NO WARRANTIES, EXPRESS OR IMPLIED, CONCERNING THE ACCURACY OF THE INFORMATION CONTAINED IN THIS OR ANY DOCUMENT TRANSMITTED OR REVIEWED BY COMPUTER OR OTHER ELECTRONIC MEANS. CONTACT S&A DIRECTLY FOR VERIFICATION OF ACCURACY.
20. ADDITIONS OR DELETIONS TO THIS SURVEY MAP BY OTHER THAN THE SIGNING PARTY OR PARTIES ARE PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
21. THE VERTICAL AND HORIZONTAL POSITIONAL ACCURACY OF WELL DEFINED IMPROVEMENTS ON THIS SURVEY IS ±0.10'.
22. THIS SURVEY MAP IS INTENDED TO BE DISPLAYED AT A SCALE OF 1/20 OR SMALLER.
23. CURRENT PROPERTY OWNER: CITY OF COCONUT CREEK. BROWARD COUNTY PROPERTY APPRAISER PARCEL ID # 4821–31–32–0020 (PARCEL "B") AND 4842–31–32–0040 (PARCEL "D")
24. THE DESCRIPTION OF THE SUBJECT PROPERTY FORMS A MATHEMATICALLY CLOSED FIGURE WITH NO GORES, GAPS, OVERLAYS OR HIATUS.

CERTIFIED TO:

CPZ ARCHITECTS, INC.

SURVEYOR'S CERTIFICATE:

THIS IS TO CERTIFY THAT THIS BOUNDARY AND TOPOGRAPHIC SURVEY WAS MADE UNDER MY RESPONSIBLE CHARGE AND IS ACCURATE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
I FURTHER CERTIFY THAT THIS BOUNDARY SURVEY MEETS THE MINIMUM TECHNICAL STANDARDS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J–17, FLORIDA ADMINISTRATIVE CODE.

DATE:

WALTER DE LA ROCHA
PROFESSIONAL SURVEYOR AND MAPPER NO. 6081
STATE OF FLORIDA
STONER AND ASSOCIATES, INC. L.B. 6633
wdelarocha@stonersurveyors.com

MARC A. FERMANIAN LICENSE No 52626 STATE OF FLORIDA PROFESSIONAL ENGINEER

MARC A. FERMANIAN, P.E.
PROFESSIONAL ENGINEER NO. 52626
STATE OF FLORIDA

DATE:

NO.	REVISION	DATE
	50% CD SET	04/10/14
	DRC COMM#2	04/17/14

CONSULTANT:

CRJ & Associates, Inc.
Consulting Engineers and Planners
Florida Authorization # 0008245
3999 Inverrary Boulevard, Suite 3-N, Lauderhill, Florida 33319
Tel. (954) 584-1600 / Fax. (954) 584-1607

PROPOSED NEW FIRE STATION 50
NW 45 AVE.
NW 43 AVE. & COCONUT CREEK PARKWAY
COCONUT CREEK, FLORIDA

CPZ ARCHITECTS, INC.
4316 WEST BROWARD BOULEVARD
PLANTATION, FLORIDA 33317
PHONE: (954) 792-8525 FAX: (954) 337-0359
AA #26000685 WWW.CPZARCHITECTS.COM

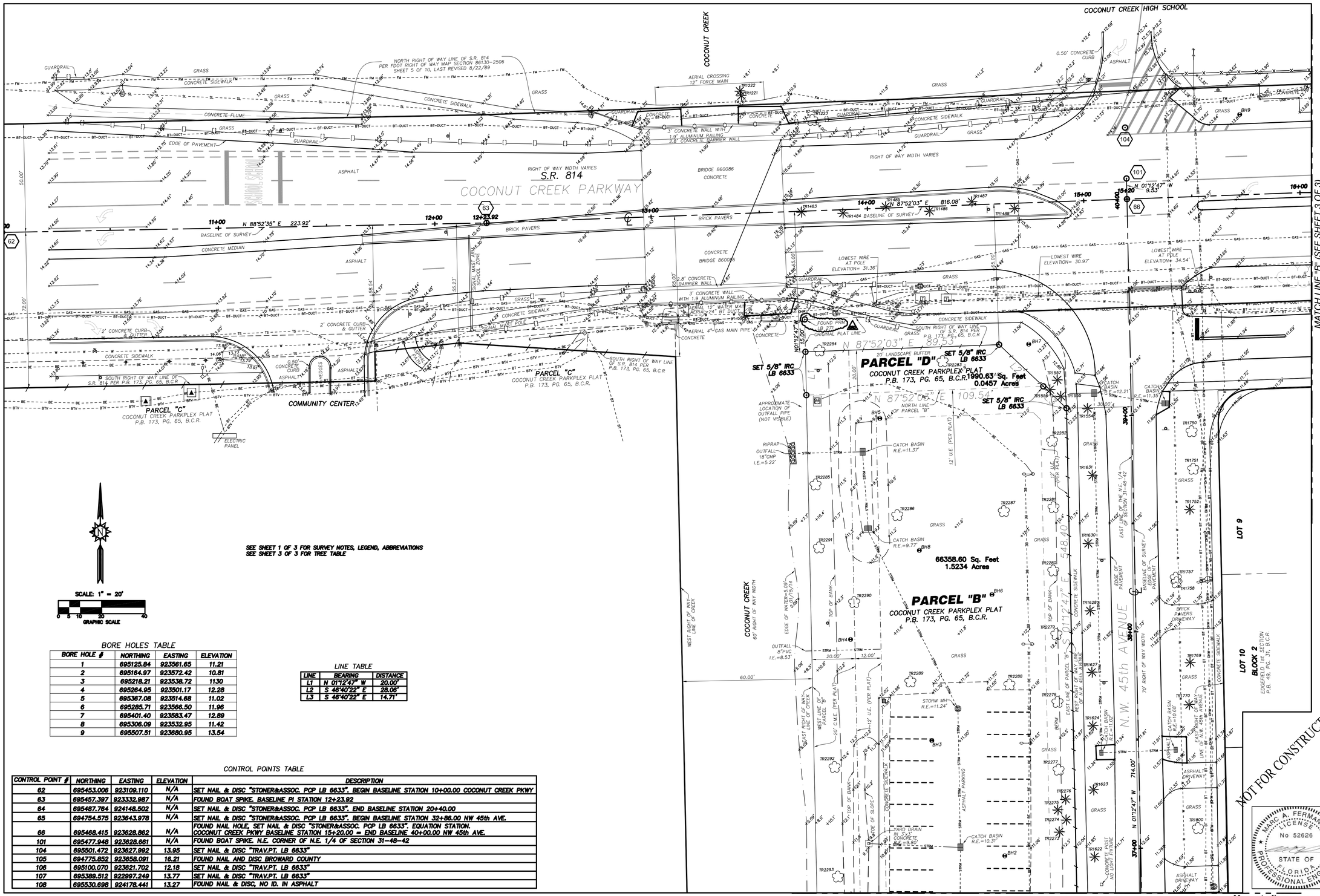
DRAWING TITLE:

SURVEY

DRAWN	C.E.O.
CHECKED	M.A.F.
DATE	04/10/2014
SCALE	AS NOTED
PROJ. NO.	CNK-1018
SHEET:	G-2

G-2-3-4.DWG

BOUNDARY AND TOPOGRAPHIC SURVEY



SEE SHEET 1 OF 3 FOR SURVEY NOTES, LEGEND, ABBREVIATIONS
SEE SHEET 3 OF 3 FOR TREE TABLE

SCALE: 1" = 20'

0 5 10 20 40
GRAPHIC SCALE

BORE HOLES TABLE

BORE HOLE #	NORTHING	EASTING	ELEVATION
1	695125.84	923561.65	11.21
2	695164.97	923572.42	10.81
3	695218.21	923538.72	11.30
4	695264.95	923501.17	12.28
5	695367.08	923514.68	11.02
6	695285.71	923566.50	11.96
7	695401.40	923583.47	12.89
8	695306.09	923532.95	11.42
9	695507.51	923680.95	13.54

LINE TABLE

LINE	BEARING	DISTANCE
L1	N 01°12'47" W	20.00'
L2	S 46°40'22" E	28.08'
L3	S 46°40'22" E	14.71'

CONTROL POINTS TABLE

CONTROL POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
62	695453.006	923109.110	N/A	SET NAIL & DISC "STONER&ASSOC. PCP LB 6633". BEGIN BASELINE STATION 10+00.00 COCONUT CREEK PKWY
63	695457.397	923332.987	N/A	FOUND BOAT SPIKE. BASELINE PI STATION 12+23.92
64	695487.764	924148.502	N/A	SET NAIL & DISC "STONER&ASSOC. PCP LB 6633". END BASELINE STATION 20+40.00
65	694754.575	923643.978	N/A	SET NAIL & DISC "STONER&ASSOC. PCP LB 6633". BEGIN BASELINE STATION 32+86.00 NW 45th AVE.
66	695468.415	923628.862	N/A	FOUND NAIL HOLE, SET NAIL & DISC "STONER&ASSOC. PCP LB 6633". EQUATION STATION. COCONUT CREEK PKWY BASELINE STATION 15+20.00 = END BASELINE 40+00.00 NW 45th AVE.
101	695477.948	923628.661	N/A	FOUND BOAT SPIKE. N.E. CORNER OF N.E. 1/4 OF SECTION 31-48-42
104	695501.472	923627.992	13.95	SET NAIL & DISC "TRAV.PT. LB 6633"
105	694775.852	923658.091	16.21	FOUND NAIL AND DISC BROWARD COUNTY
106	695100.070	923621.702	12.18	SET NAIL & DISC "TRAV.PT. LB 6633"
107	695389.512	922997.249	13.77	SET NAIL & DISC "TRAV.PT. LB 6633"
108	695530.698	924178.441	13.27	FOUND NAIL & DISC, NO ID. IN ASPHALT

G-2-3-4.DWG

MARC A. FERMANIAN, P.E.
PROFESSIONAL ENGINEER NO. 52626
STATE OF FLORIDA

DATE:

NO.	REVISION	DATE
	50% CD SET	04/10/14
	DRC COMM#2	04/17/14

CONSULTANT:

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PROPOSED NEW FIRE STATION 50
NW 45 AVE. & COCONUT CREEK PARKWAY
COCONUT CREEK, FLORIDA

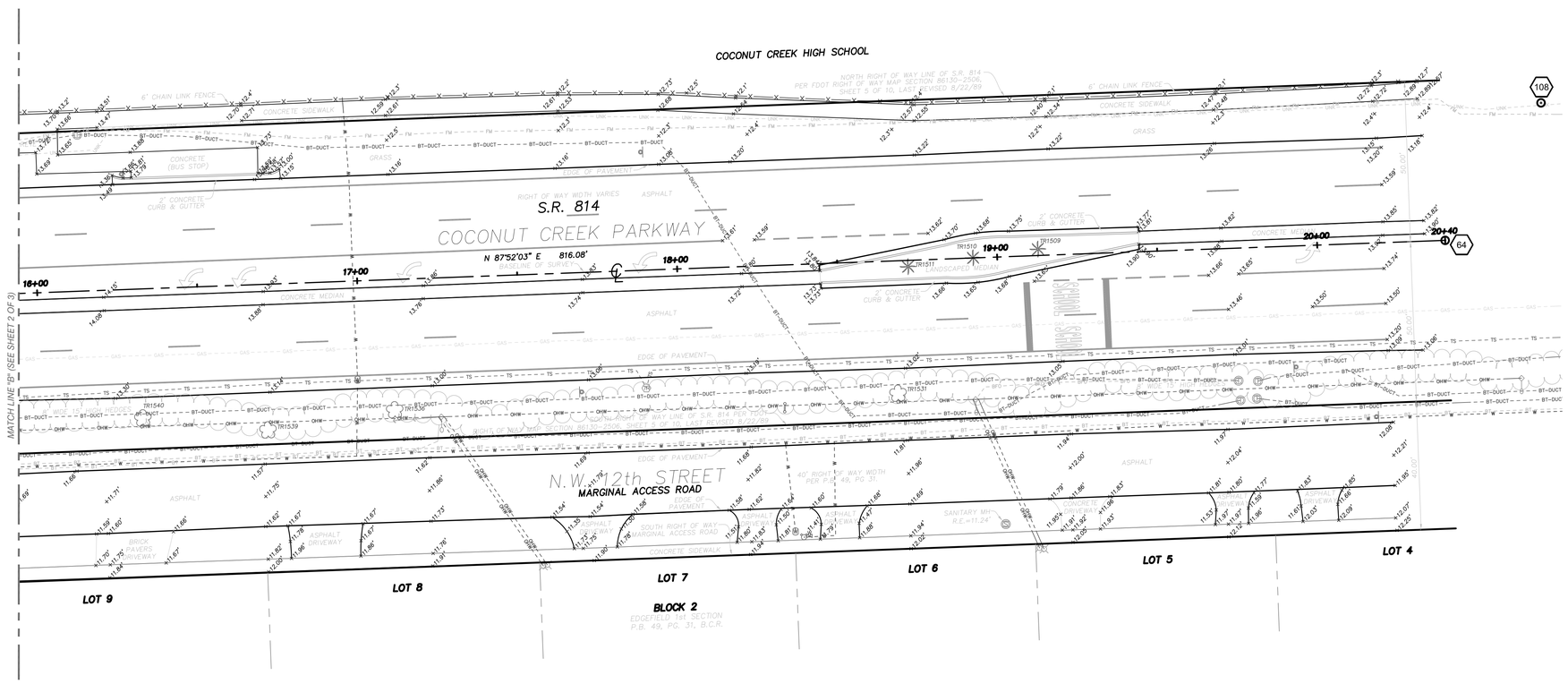
CPZ ARCHITECTS, INC.
4316 WEST BROWARD BOULEVARD
PLANTATION, FLORIDA 33317
PHONE: (954) 792-8525 FAX: (954) 337-0359
AA #26000685 WWW.CPZARCHITECTS.COM

DRAWING TITLE:

SURVEY

DRAWN	C.E.O.
CHECKED	M.A.F.
DATE	04/10/2014
SCALE	AS NOTED
PROJ. NO.	CNK-1018
SHEET:	G-3

BOUNDARY AND TOPOGRAPHIC SURVEY



TREE TABLE

TREE ID #	DESCRIPTION	TRUNK DBH	HEIGHT
1221	PALM	12"	
1222	PALM	12"	
1223	ACACIA	24"	
1483	SOLITARY PALM	4"	15'
1484	SOLITARY PALM	4"	14'
1485	SOLITARY PALM	4"	14'
1486	SOLITARY PALM	4"	15'
1487	SOLITARY PALM	4"	15'
1488	SOLITARY PALM	4"	14'
1509	SOLITARY PALM	4"	14'
1510	SOLITARY PALM	4"	14'
1511	SOLITARY PALM	4"	14'
1531	BOTTLE BRUSH	16"	
1536	YELLOW TABEBUIA	12"	
1539	YELLOW TABEBUIA	12"	
1540	YELLOW TABEBUIA	12"	
1554	PALM	12"	7'
1555	CABBAGE PALM	12"	15'
1556	CABBAGE PALM	11"	18'
1557	CABBAGE PALM	15"	16'
1620	PALM	12"	8'
1622	PALM	12"	8'
1623	PALM	12"	8'
1624	PALM	12"	8'
1627	PALM	12"	7'
1628	PALM	12"	8'
1630	PALM	12"	8'
1631	PALM	12"	7'
1750	PINK TABEBUIA	9"	
1751	PINK TABEBUIA	7"	
1752	PALM	12"	4'
1757	MAPLE	8"	
1758	MAPLE	8"	
1769	PALM	24"	4'
1770	PALM	24"	4'
1800	YELLOW TABEBUIA	15"	
1823	UNKNOWN	18"	
1854	PALM	12"	6'
1855	PALM	12"	6'
1881	BLACK OLIVE	24"	
1882	BLACK OLIVE	16"	
1883	PALM	12"	7'
1884	PALM	12"	7'
1885	PALM	12"	5'
1886	PALM	12"	8'
1887	UNKNOWN	8"	
1888	UNKNOWN	8"	
1889	ROYAL PALM	16"	16"
1890	CABBAGE PALM	12"	11'
1891	CABBAGE PALM	12"	12'
1893	CABBAGE PALM	12"	13'
1897	PALM	12"	4'
1898	PALM	8"	4'
1899	BLACK OLIVE	24"	
1903	BLACK OLIVE	24"	
2080	CABBAGE PALM	12"	21'
2081	UNKNOWN	6"	
2083	CABBAGE PALM	9.00	9'
2097	CABBAGE PALM	12"	18'
2098	UNKNOWN	12"	
2216	LIGUSTRUM	9"	
2220	OAK	15"	
2221	UNKNOWN	3"	
2223	UNKNOWN	3"	
2224	BLACK OLIVE	3"	
2225	UNKNOWN	3"	
2249	UNKNOWN	12"	
2251	CABBAGE PALM	12"	19'
2252	CABBAGE PALM	12"	15'
2253	CABBAGE PALM	12"	13'
2254	CABBAGE PALM	12"	15'
2269	CABBAGE PALM	12"	17'
2270	CABBAGE PALM	12"	15'
2271	CABBAGE PALM	10"	13'
2272	CABBAGE PALM	12"	13'
2273	CABBAGE PALM	14"	18'
2274	CABBAGE PALM	12"	13'
2275	CABBAGE PALM	10"	17'
2276	CABBAGE PALM	14"	18'
2277	OAK	20"	
2278	OAK	20"	
2279	OAK	16"	
2280	OAK	20"	
2281	OAK	18"	
2282	OAK	18"	
2283	UNKNOWN	12"	
2284	FICUS	60"	
2285	OAK	22"	
2286	UNKNOWN	10"	
2287	UNKNOWN	10"	
2288	UNKNOWN	8"	
2289	UNKNOWN	8"	
2290	OAK	22"	
2291	OAK	20"	
2292	OAK	10"	
2293	OAK	8"	
2294	CABBAGE PALM	12"	
2295	CABBAGE PALM	12"	
2296	CABBAGE PALM	12"	
2297	ROYAL PALM	12"	
2298	ROYAL PALM	12"	
2299	ROYAL PALM	12"	
2300	ROYAL PALM	12"	

DBH = DIAMETER AT BREAST

NOT FOR CONSTRUCTION

MARC A. FERMANIAN LICENSE No 52626 STATE OF FLORIDA PROFESSIONAL ENGINEER

MARC A. FERMANIAN, P.E.
PROFESSIONAL ENGINEER NO. 52626
STATE OF FLORIDA

CONTROL POINTS TABLE

CONTROL POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
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9	695507.51	923680.95	13.54

SEE SHEET 1 OF 3 FOR SURVEY NOTES, LEGEND, ABBREVIATIONS
SEE SHEET 3 OF 3 FOR TREE TABLE

G-2-3-4.DWG

DATE:

NO.	REVISION	DATE
	DRC COMMENTS	3/17/14

CONSULTANT:

CRJ & Associates, Inc.
Consulting Engineers and Planners
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3999 Hollywood Blvd, Suite 315, Hollywood, Florida 33021
Tel (954) 236-1600 • Fax (954) 236-1601

PROPOSED NEW FIRE STATION 50
NW 45 AVE.

NW 43 AVE. & COCONUT CREEK PARKWAY
COCONUT CREEK, FLORIDA

CPZ ARCHITECTS, INC.
4316 WEST BROWARD BOULEVARD
PLANTATION, FLORIDA 33317
PHONE: (954) 792-8325 FAX: (954) 337-0359
AA 26000085 WWW.CPZARCHITECTS.COM

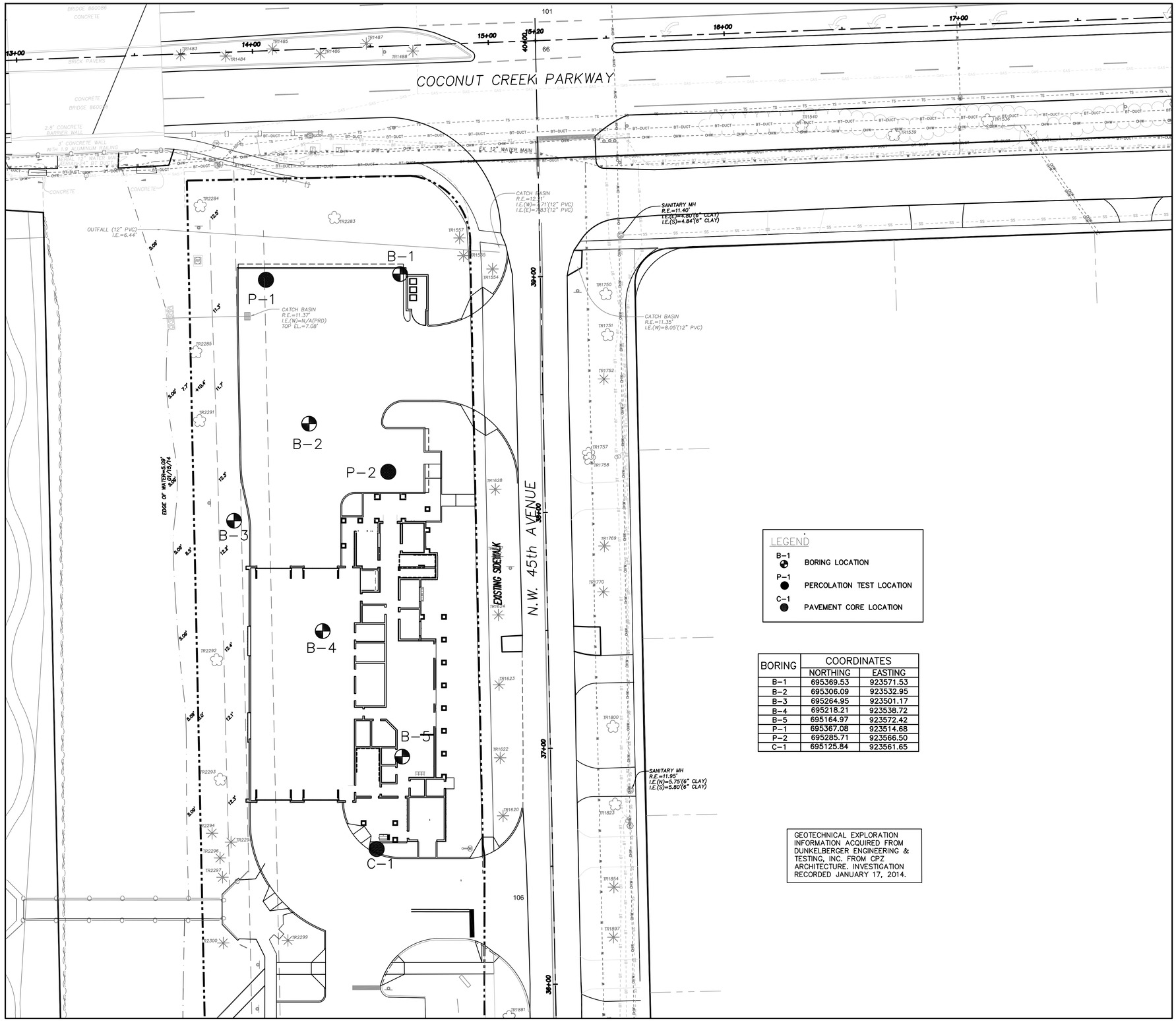
DRAWING TITLE:

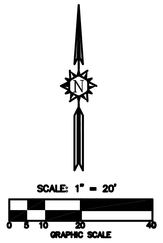
SURVEY

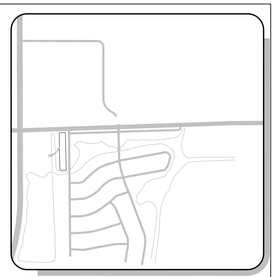
DRAWN	C.E.O.
CHECKED	M.A.F.
DATE	03/17/2014
SCALE	AS NOTED
PROJ. NO.	CNK-1018

SHEET:

G-4







LOCATION MAP

NOT TO SCALE

LEGEND

- B-1 — BORING LOCATION
- P-1 — PERCOLATION TEST LOCATION
- C-1 — PAVEMENT CORE LOCATION

BORING	COORDINATES	
	NORTHING	EASTING
B-1	695369.53	923571.53
B-2	695306.09	923532.95
B-3	695264.95	923501.17
B-4	695218.21	923538.72
B-5	695164.97	923572.42
P-1	695367.08	923514.68
P-2	695285.71	923566.50
C-1	695125.84	923561.65

GEOTECHNICAL EXPLORATION INFORMATION ACQUIRED FROM DUNKELBERGER ENGINEERING & TESTING, INC. FROM CPZ ARCHITECTURE. INVESTIGATION RECORDED JANUARY 17, 2014.

NOT FOR CONSTRUCTION

MARC A. FERMANIAN LICENSE No 52626 STATE OF FLORIDA PROFESSIONAL ENGINEER

MARC A. FERMANIAN, P.E.
PROFESSIONAL ENGINEER NO. 52626
STATE OF FLORIDA

NO.	REVISION	DATE
	DRC COMMENTS	3/17/14

CONSULTANT:

CRJ & Associates, Inc.
Consulting Engineers and Planners
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3999 Inverrary Blvd. Suite 3-205, Lauderhill, Florida 33319
Tel. (954) 584-1616 • Fax (954) 584-1619

PROPOSED NEW FIRE STATION 50
NW 45 AVE. & COCONUT CREEK PARKWAY
COCONUT CREEK, FLORIDA

CPZ ARCHITECTS, INC.
4316 WEST BROWARD BOULLEVARD
PLANTATION, FLORIDA 33317
PHONE: (954) 792-8525 FAX: (954) 337-0359
AA #26006085 WWW.CPZARCHITECTS.COM

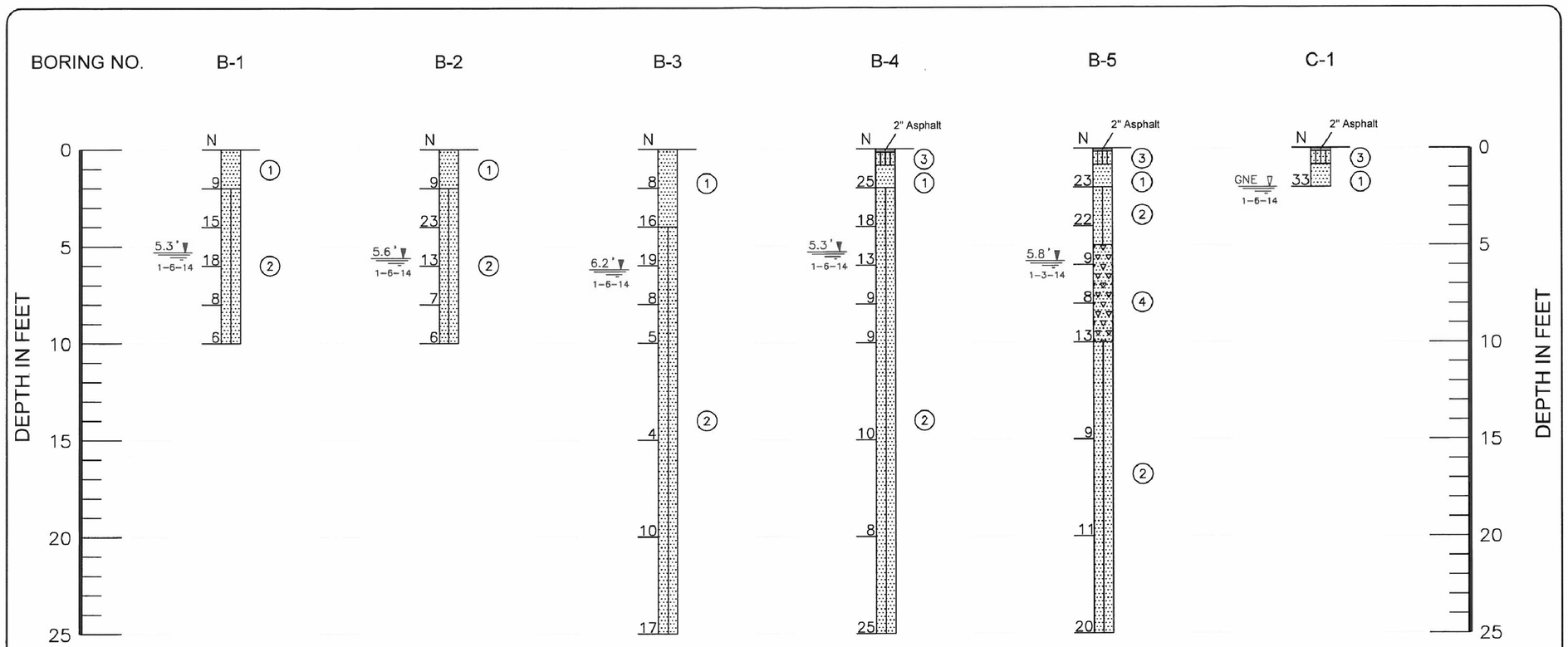
DRAWING TITLE:

BORING LOCATION PLAN

DRAWN	C.E.O.
CHECKED	M.A.F.
DATE	03/17/2014
SCALE	AS NOTED
PROJ. NO.	CNK-1018
SHEET:	G-5

G-5.DWG

DATE:



LEGEND

- (1) Brown and light brown fine SAND, trace limestone fragments, trace silt (SP)
- (2) Brown, light brown and orange brown fine SAND, trace silt (SP)
- (3) Brown and light brown SAND with limestone fragments (GP) (Aggregate Base Course)
- (4) Brown and light brown fine SAND, trace to little limestone fragments, trace silt (SP)

SP – Unified Soil Classification System Group Symbol (ASTM D 2487)

N – Indicates the number of blows of a 140 pound hammer, freely falling a distance of 30 inches, required to drive a 2-inch diameter sampler 12 inches (ASTM D 1586)

B-1 – Standard Penetration Test (SPT) boring and number

C-1 – Pavement core and number

5.3' 1-6-14 – Depth of groundwater (feet) & date measured

GNE 1-6-14 – Groundwater not encountered

NOTES

(1) Borings were drilled on January 3 and 6, 2014 using a Central Mine Equipment Model 55 (CME 55) drilling rig.

(2) Strata boundaries are approximate and represent soil strata at each test hole location only. Soil transitions may be more gradual than implied.

(3) Groundwater depths shown on the subsurface profiles represent groundwater surfaces on the dates shown. Groundwater level fluctuations should be anticipated throughout the year.

DRAWN	JJ
CHECKED	RN
APPROVED	TT
SCALE	1" = 5'
REVISED	

SUBSURFACE PROFILES
FIRE STATION 50
NW 45TH AVENUE & COCONUT CREEK PARKWAY
COCONUT CREEK, FLORIDA

DUNKELBERGER
engineering & testing, inc.
A Terracon COMPANY

DATE	PROJ. NO.	SHEET
1-17-14	34135011	A-2

NO. REVISION DATE
DRC COMMENTS 3/17/14

CONSULTANT:

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Consulting Engineers and Planners
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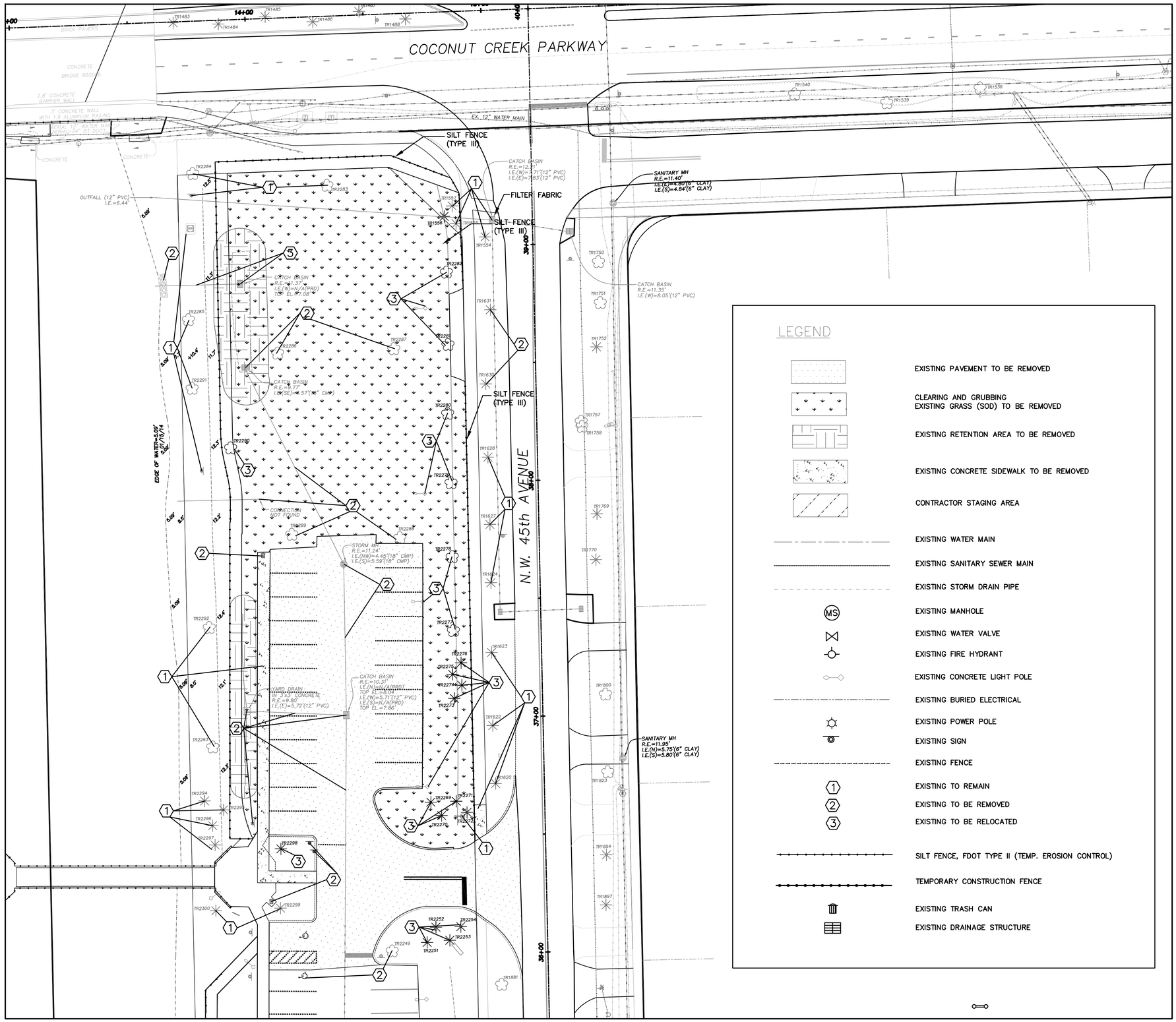
PROFESSIONAL ENGINEER NO. 52626
STATE OF FLORIDA

DATE:

DRAWING TITLE:
SOIL BORING PROFILES

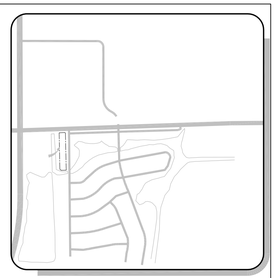
DRAWN	C.E.O.
CHECKED	M.A.F.
DATE	03/17/2014
SCALE	AS NOTED
PROJ. NO.	CNK-1018
SHEET:	G-6

G-6.DWG



SCALE: 1" = 20'

GRAPHIC SCALE



LOCATION MAP

NOT TO SCALE

NO.	REVISION	DATE
	DRC COMMENTS	3/17/14

CONSULTANT:

CRJ & Associates, Inc.
Consulting Engineers and Planners
Florida Authorization # 0008245
3999 Inverrary Blvd., Suite 3-D, Lauderhill, Florida 33319
Tel. (954) 584-1400 • Fax (954) 584-1407

PROPOSED NEW FIRE STATION 50
NW 45 AVE. & COCONUT CREEK PARKWAY
NW 43 AVE. & COCONUT CREEK PARKWAY
COCONUT CREEK, FLORIDA

CPZ ARCHITECTS, INC.
4316 WEST BROWARD BOULEVARD
PLANTATION, FLORIDA 33317
PHONE: (954) 792-8525 FAX: (954) 337-0359
AA #26000685 WWW.CPZARCHITECTS.COM

NOT FOR CONSTRUCTION

MARC A. FERMANIAN LICENSE No 52626 STATE OF FLORIDA PROFESSIONAL ENGINEER

MARC A. FERMANIAN, P.E.
PROFESSIONAL ENGINEER NO. 52626
STATE OF FLORIDA

DRAWING TITLE:

DEMOLITION PLAN AND EROSION CONTROL

DRAWN	C.E.O.
CHECKED	M.A.F.
DATE	03/17/2014
SCALE	AS NOTED
PROJ. NO.	CNK-1018

SHEET:

G-7

G-7.DWG

DATE:

1. SITE DESCRIPTION

Construction Activity: The work consists of constructing an apron area for Hangar H of Galaxy Aviation at Palm Beach International Airport (PBIA) in Palm Beach County, Florida. Construction activities includes: Placing/grading fill for new hangar and office space building, site development, asphalt apron and extension to taxilane tug area, installation of the swale retention area.

Project Limits: All proposed construction activities are within The Legal Property Limits of Palm Beach International Airport .Property limits are within Section 36, Township 43 South, Ranges 42 and 43 East of Palm Beach County, Florida.

Major Soil Disturbing Activities: Soil disturbing activities (i.e., excavation, fill, and site grading) will be associated with site clearing and grubbing activities, placing/grading fill material for asphalt apron area, and installation of swale retention area.
Soil disturbing activities will be conducted in construction phases to limit the exposure of bare soils to reduce soil loss due to erosion.

The Contractor shall be responsible for minimizing erosion potential by providing temporary seeding and water for areas that have been cleared and will remain inactive for a period greater than three calendar days.
Total Project Area = 9.19 Ac
Total Area to be Disturbed = 9.19 Ac

Runoff Coefficients Before, During, and After Construction Activities:
Runoff Coefficient (Before) = 0.35 (Grassed/Comercial Property)
Runoff Coefficients (During) = 0.70 (Exposed Soil)
Runoff Coefficients (After) = 0.90 (Finished Aircraft Apron With Grass Swale)

Runoff Coefficients will vary during construction from 0.35 to 0.90 in proportion to the construction completeness.

Description of Soils: General soils information was obtained from the US Department of Agriculture Soil Conservation Service's Soil Survey of Palm Beach County, December 1978 edition. Soils within the Project Limits vary by nomenclature but consist of Sands/Urban Land Fill and have a composite hydrologic classification of type "A/D"

Name of Receiving Body of Water: The project stormwater system outfalls into the SFWMD C-51 canal which ties in with the Intracoastal Waterway and ultimately outfalls into the Atlantic Ocean.

Wetland Area: there are no jurisdictional wetlands involved with the Project.

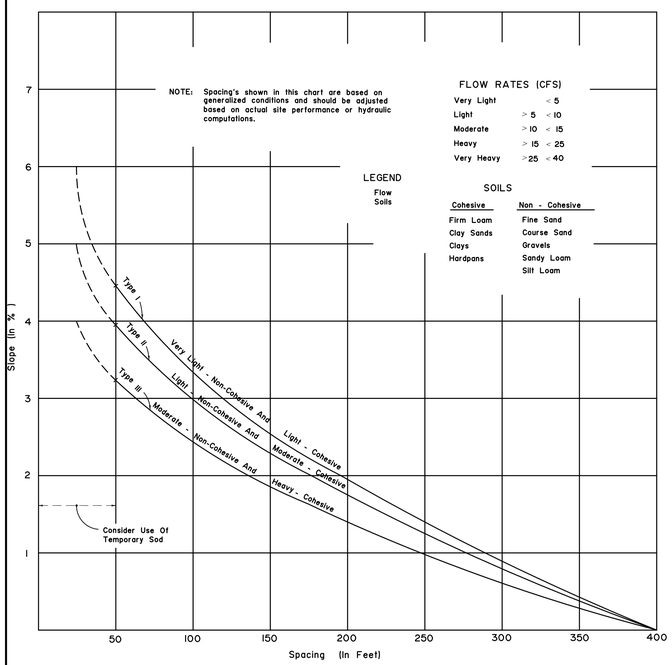


CHART I

RECOMMENDED SPACING FOR TYPE I AND TYPE II HAY BALE BARRIERS, AND TYPE III SILT FENCES

2. EROSION AND SEDIMENT CONTROLS

A.) Implementation of Erosion Controls: The sequence of Construction will be in accordance to the Maintenance of Traffic (M.O.T.) Plan Sheets as presented within these Plans. Installation of controls will be in accordance with the Plans, Technical Specification, and "FDOT Standard Specifications for Road and Bridge Construction (2013)" Section 104. At the Contractor's own expense and discretion, an alternative plan may be implemented.

in order to enhance appropriate control of site erosion during environmentally sensitive construction activity. The Contractor shall supply PBIA & Owner with SWPP Plan Changes signed and sealed by a registered Professional Engineer for implementation of alternate control measures.

B.) Drainage Conveyance: Drainage during construction of this Project will be conveyed within the Project Limits as found in the existing site conditions and demonstrated throughout the construction plans.

3. EROSION AND SEDIMENT CONTROL SYSTEM

A.) During construction, the Contractor will provide temporary seeding and/or mulching for areas which have been cleared and not reworked within three calendar days. The entire disturbed areas will be graded, sodded and/or seeded upon completion. The cost of Temporary Seeding & Watering and Mulching will be paid under the Seeding and Sodding pay item number.

B.) All inlets shall be protected from sediment intake for the entire duration of the project. Hay bales shall be installed around inlets, where necessary.

C.) Fencing shall be used throughout the project's length; silt fencing location will be verified by the Project Engineer.

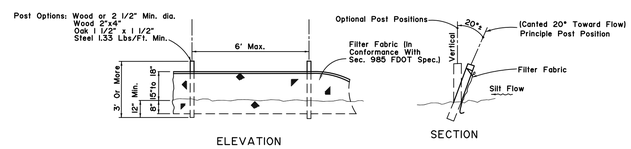
D.) Floating Turbidity Barriers shall not be utilized for this Project.

E.) Temporary Erosion Control devices are shown within the Plans and are quantified below:

Staked Silt Fence (LF)	=	3,450 LF
Hay Bales w/ stakes (EA)	=	0 BALES
Floating Turbidity Barriers (LF)	=	0 LF

The devices itemized above will be implemented according to this narrative, the Technical Specifications, and the Plans.

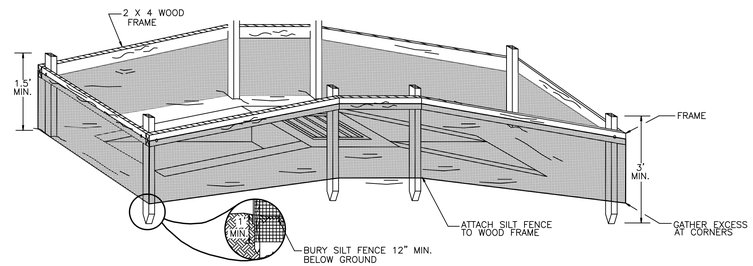
F.) Additional Sedimentation and Erosion Control devices may be utilized as deemed necessary by the Field Engineer. Additional devices will be an incidental cost incurred by the Contractor.



Note: Silt Fence to be paid for under the contract unit price for Staked Silt Fence (LF).

FDOT TYPE III SILT FENCE

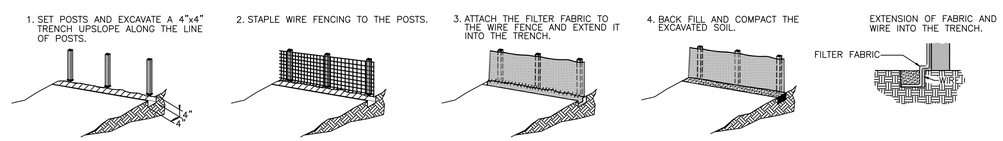
N.T.S.



NOTE: SEE STORM WATER POLLUTION PREVENTION PLAN FOR LOCATION OF ALL SILT FENCE.

TYPICAL DRAINAGE INLET SEDIMENTATION PROTECTION DETAIL

NTS



NOTE: SEE STORM WATER POLLUTION PREVENTION PLAN FOR LOCATION OF ALL SILT FENCE.

SILT FENCE CONSTRUCTION DETAILS

NTS

4. OTHER CONTROLS

A.) Waste Disposal: The Contractor shall provide litter control and collection within the construction boundaries during the duration of construction activity. All fertilizer, hydrocarbons, or other hazardous materials utilized during construction shall be disposed of by the Contractor according to local, State and Federal (EPA) standard practices as detailed by the manufacturer.

B.) Sanitary Waste: This project can be classified as being a "rural" area. The Contractor's field office will require permits for sewage treatment in accordance with FAC 64E-6, "Standards for On-Site Sewage Disposal Systems." Portable units provided by the Contractor will be serviced by a licensed sanitary waste management contractor a minimum of three time per week.

C.) Non-Stormwater Contaminants : If contaminated soils and/or groundwater is encountered during excavation, the Contractor will notify the Field Engineer immediately.

5. MAINTENANCE OF EROSION AND SEDIMENT CONTROLS

A.) The Contractor shall be responsible for daily inspection and maintenance of all control devices throughout the construction phasing. Maintenance shall be conducted in accordance with "FDOT Standard Specifications for Road and Bridge Construction (2013)" Section 104, and "FDOT Roadway and Traffic Design Standards (2013 or latest edition)" Standard Indices 100 - 106.

B.) All devices will be maintained in good working order; if repair is necessary, it will be completed within 24 hours of report.

C.) Built up sediment shall be removed from the Staked Silt Fence and Hay Bales when it reaches one-third the fence height.

D.) Staked Silt Fencing will be inspected for depth of sediment, tears in fabric, to determine if fabric is securely attached to the fence posts, and to determine if the fence posts are hammered firmly into the ground.

6. INSPECTION

The Field Engineer shall be responsible for completing the weekly inspection reports and submission of the reports to the Department of Environmental Protection (FDEP) on a monthly basis. Inspection will be conducted and recorded after rainfall events greater than 0.25 inches.

7. PERMITS

SFWMD CONSTRUCTION PERMIT NO. 50-00471-S

SILT FENCE NOTES

SILT FENCE SHALL BE IN PLACE PRIOR TO GRADING.

SILT FENCE AND FILTER FABRIC MUST BE ENTRENCHED.

POSTS FOR SILT FENCES SHALL BE EITHER 2.5 X 2 INCH DIAMETER WOOD OR 1.25 POUNDS PER LINEAR FOOT STEEL WITH A MINIMUM LENGTH OF 5 FEET. STEEL POSTS SHALL HAVE PROJECTIONS FOR FASTENING WIRE TO THEM.

WIRE FENCE REINFORCEMENT FOR SILT FENCES USING STANDARD STRENGTH FILTER CLOTH SHALL BE A MINIMUM OF 42 INCHES IN HEIGHT, A MINIMUM OF 14 GAUGE AND SHALL HAVE A MAXIMUM MESH SPACING OF 6 INCHES.

POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MIN. OF 12 INCHES) WHEN EXTRA STRENGTH FABRIC IS USED. WITHOUT THE WIRE SUPPORT FENCE, POSTS SHALL NOT EXCEED 8 FEET.

WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POST.

SEDIMENT MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ON-HALF THE HEIGHT OF THE BARRIER.

ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE PROPOSED AND EXISITNG GRADES, PREPARED AND SEEDED OR SODDED.

UNDER NO CIRCUMSTANCES SHALL SILT FENCE BE CONSTRUCTED IN LIVE STREAMS.

SILT FENCE SHALL BE REMOVED UPON COMPLETION OF THE PROJECT OR AT A TIME DIRECTED BY THE OWNER. IF THE OWNER FEELS IT IS NECESSARY FOR THE SILT FENCE TO REMAIN IN PLACE FOR SOME GIVEN TIME AFTER CONSTRUCTION IS COMPLETE, THE CONTRACTOR SHALL LEAVE IT IN PLACE, IN THE PROPERLY INSTALLED WAY, AND WILL, AT THE DIRECTION OF THE OWNER, REMOVE IT AT NO ADDITIONAL COST TO THE OWNER WHEN THE OWNER DEEMS IT APPROPRIATE.

NOT FOR CONSTRUCTION

MARC A. FERMANIAN LICENSE No 52626 STATE OF FLORIDA PROFESSIONAL ENGINEER

MARC A. FERMANIAN, P.E.
PROFESSIONAL ENGINEER NO. 52626
STATE OF FLORIDA

DATE:

NO.	REVISION	DATE
	DRC COMMENTS	3/17/14

CONSULTANT:

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PROPOSED NEW FIRE STATION 50
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NW 43 AVE. & COCONUT CREEK PARKWAY
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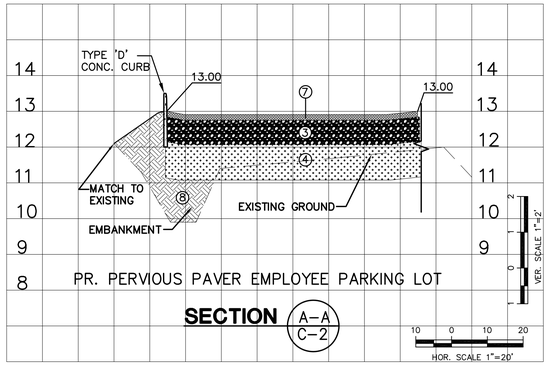
DRAWING TITLE:

STORMWATER POLLUTION PREVENTION PLAN SHEET

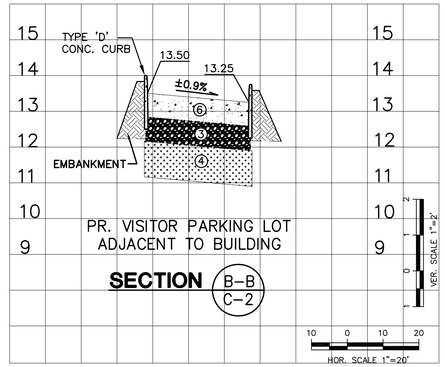
DRAWN	C.E.O.
CHECKED	M.A.F.
DATE	03/17/2014
SCALE	AS NOTED
PROJ. NO.	CNK-1018
SHEET:	G-8

G-8.DWG



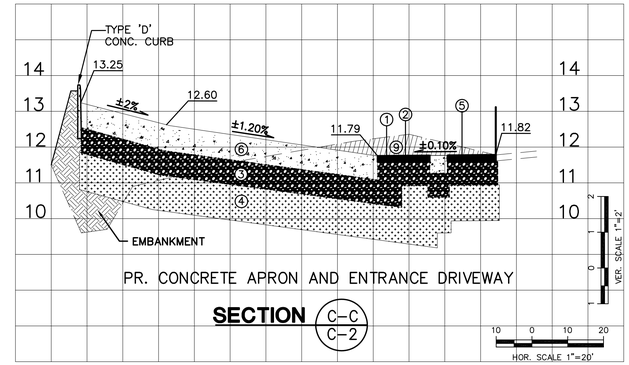
PR. PERVIOUS PAVER EMPLOYEE PARKING LOT

SECTION A–A / C–2



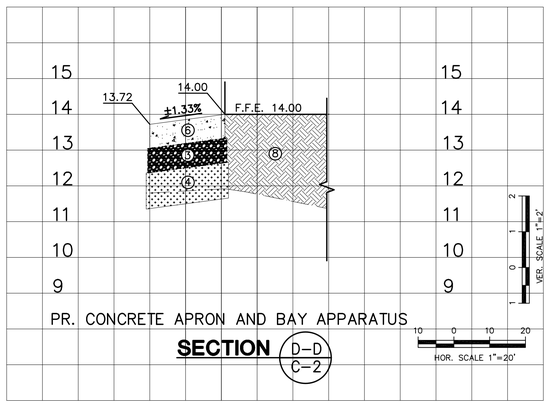
PR. VISITOR PARKING LOT ADJACENT TO BUILDING

SECTION B–B / C–2



PR. CONCRETE APRON AND ENTRANCE DRIVEWAY

SECTION C–C / C–2



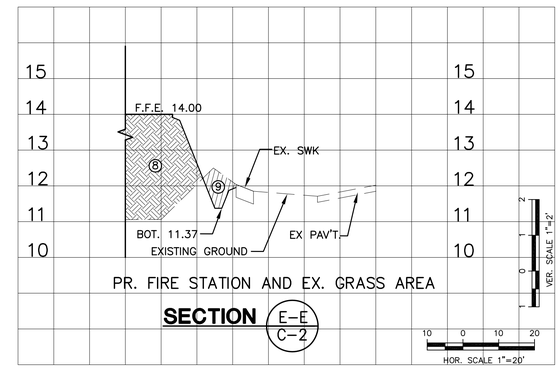
PR. CONCRETE APRON AND BAY APPARATUS

SECTION D–D / C–2

LEGEND:

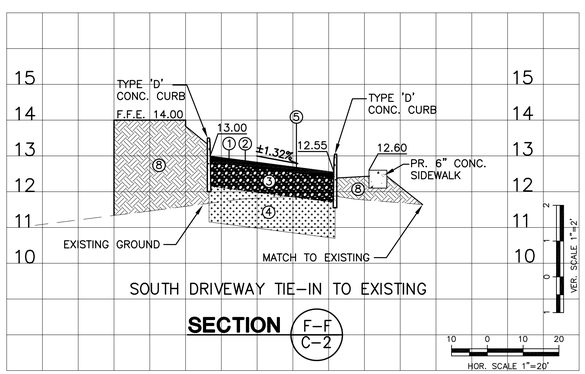
1. 2" BITUMINOUS SURFACE COURSE TYPE S–3: 2 LIFTS AT 1" LIFTS
2. BITUMINOUS PRIME COAT
3. 8" LIMEROCK BASE COURSE (LBR–100) COMPACTED @ 100% MAX. DENSITY, WITH A MINIMUM 70% CARBONATES OF CALCIUM AND MAGNESIUM.
4. 12" STABILIZED SUBGRADE (LBR–40) @ 100% MAX. DENSITY
5. BITUMINOUS TACK COAT
6. 8" THICK CONCRETE APRON (COMPRESSIVE STRENGTH AT 4,000 PSI)
7. PERVIOUS PAVERS
8. EMBANKMENT COMPACTED AT 100% MAX. DENSITY
9. EXCAVATION (CUT)

NOTE:
CONTRACTOR TO COMPLY WITH THE FDOT INDICES OF THE "ROADWAY AND TRAFFIC DESIGN STANDARDS", JANUARY 2013 EDITION.



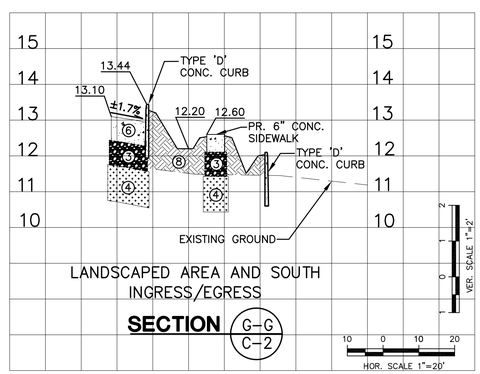
PR. FIRE STATION AND EX. GRASS AREA

SECTION E–E / C–2



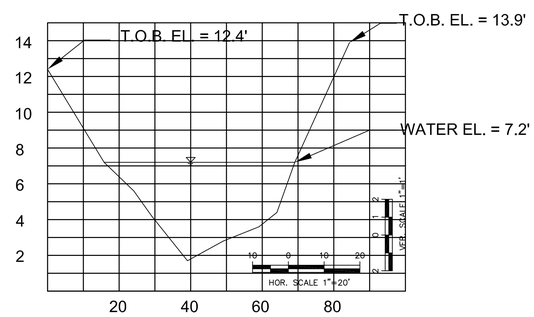
SOUTH DRIVEWAY TIE–IN TO EXISTING

SECTION F–F / C–2



LANDSCAPED AREA AND SOUTH INGRESS/EGRESS

SECTION G–G / C–2



EX. CANAL (FROM COCONUT CREEK COMMUNITY CENTER AS–BUILTS CIRCA (06–2004)

SECTION H–H / C–2

C-1.DWG

NO.	REVISION	DATE
	DRC COMMENTS	3/17/14

CONSULTANT:

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PROPOSED NEW FIRE STATION 50
NW 45 AVE.

NW 43 AVE. & COCONUT CREEK PARKWAY
COCONUT CREEK, FLORIDA

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NOT FOR CONSTRUCTION

MARC A. FERMANIAN LICENSE No 52626 STATE OF FLORIDA PROFESSIONAL ENGINEER

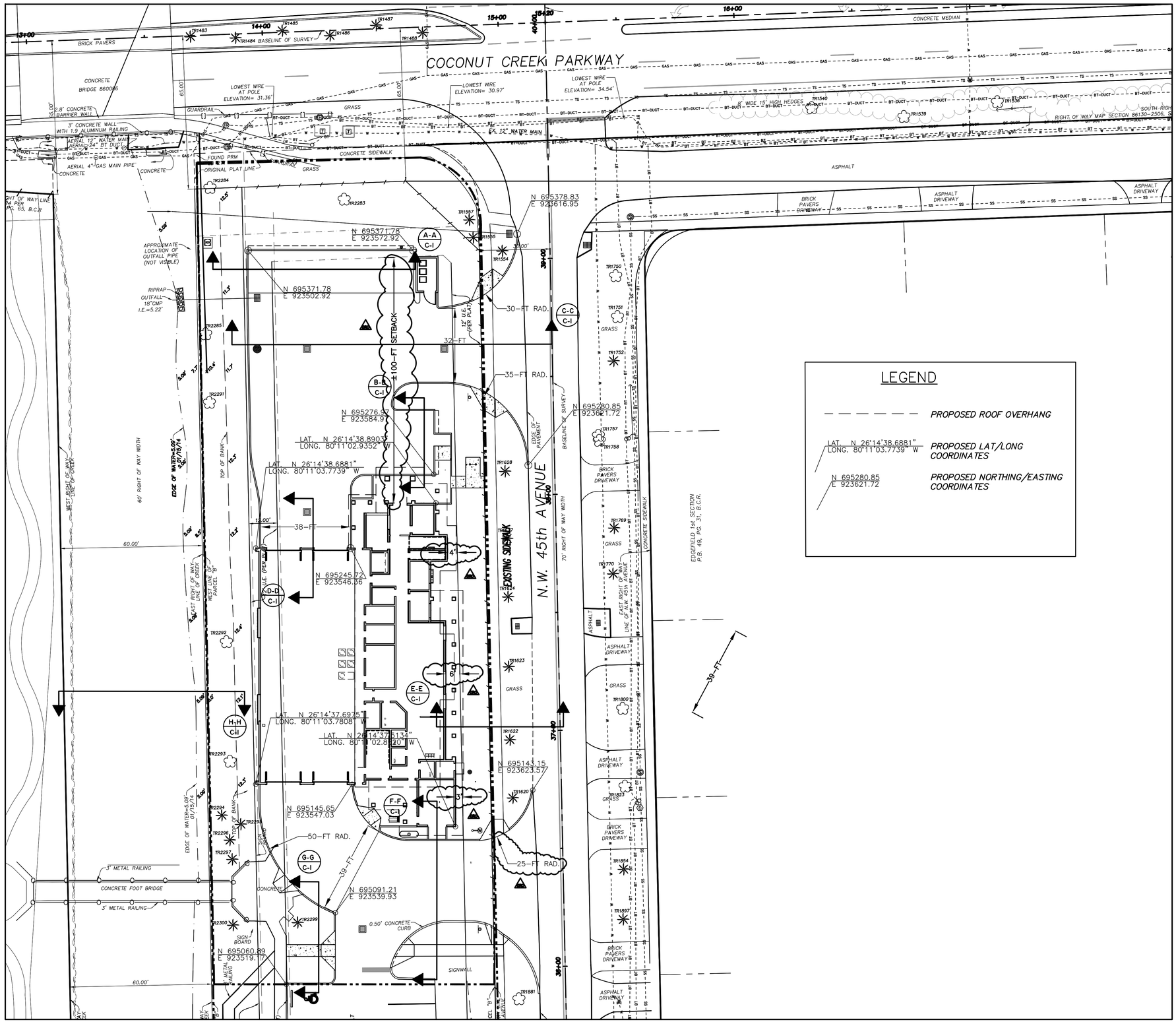
MARC A. FERMANIAN, P.E.
PROFESSIONAL ENGINEER NO. 52626
STATE OF FLORIDA

DATE:

DRAWING TITLE:

SECTIONS

DRAWN	C.E.O.
CHECKED	M.A.F.
DATE	03/17/2014
SCALE	AS NOTED
PROJ. NO.	CNK-1018
SHEET:	C-1

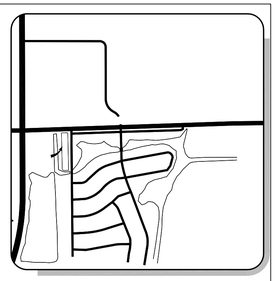


LEGEND

— — — — —	PROPOSED ROOF OVERHANG
LAT. N 26°14'38.6881" LONG. 80°11'03.7739" W	PROPOSED LAT/LONG COORDINATES
N 695280.85 E 923621.72	PROPOSED NORTHING/EASTING COORDINATES

SCALE: 1" = 20'

GRAPHIC SCALE 0 5 10 20 40



LOCATION MAP

NOT TO SCALE

NO.	REVISION	DATE
	50% CD SET	04/10/14
	DRC COMM#2	04/17/14

CONSULTANT:

CRJ & Associates, Inc.
Consulting Engineers and Planners
Florida Authorization # 0008245
3500 Hiatus Road, Suite 8-101, Plantation, Florida 33324
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PROPOSED NEW FIRE STATION 50
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COCONUT CREEK, FLORIDA

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4316 WEST BROWARD BOULEVARD
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PHONE: (954) 792-8525 FAX: (954) 337-0359
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MARC A. FERMANIAN LICENSE No 52626 STATE OF FLORIDA PROFESSIONAL ENGINEER

MARC A. FERMANIAN, P.E.
PROFESSIONAL ENGINEER NO. 52626
STATE OF FLORIDA

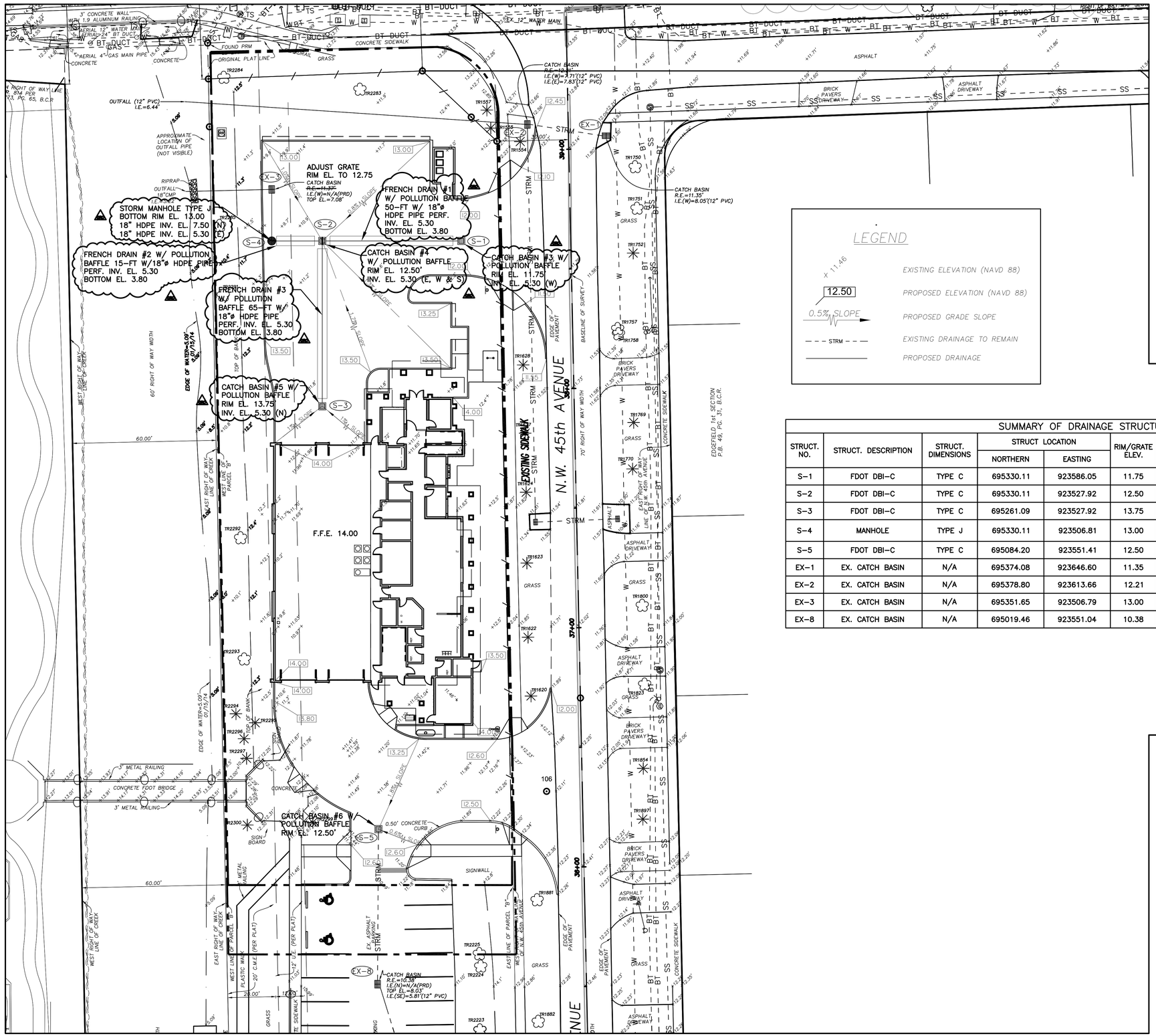
DRAWING TITLE:

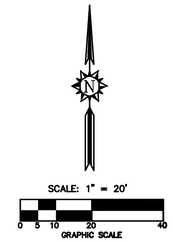
GEOMETRY LAYOUT PLAN

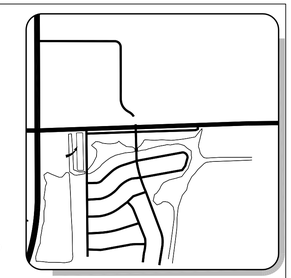
DRAWN	C.E.O.
CHECKED	M.A.F.
DATE	04/10/2014
SCALE	AS NOTED
PROJ. NO.	CNK-1018
SHEET:	C-2

C-2.DWG

DATE:







LOCATION MAP

NOT TO SCALE

LEGEND

+ 11.46	EXISTING ELEVATION (NAVD 88)
12.50	PROPOSED ELEVATION (NAVD 88)
0.5% SLOPE	PROPOSED GRADE SLOPE
STRM	EXISTING DRAINAGE TO REMAIN
	PROPOSED DRAINAGE

SUMMARY OF DRAINAGE STRUCTURES

STRUCT. NO.	STRUCT. DESCRIPTION	STRUCT. DIMENSIONS	STRUCT LOCATION		RIM/GRATE ELEV.	INVERT ELEVATION				REMARKS
			NORTHERN	EASTING		N	S	E	W	
S-1	FDOT DBI-C	TYPE C	695330.11	923586.05	11.75	–	–	–	5.30	EXFIL. TRENCH 18" HDPE
S-2	FDOT DBI-C	TYPE C	695330.11	923527.92	12.50	–	5.30	5.30	5.30	EXFIL. TRENCH 18" HDPE
S-3	FDOT DBI-C	TYPE C	695261.09	923527.92	13.75	5.30	–	–	–	EXFIL. TRENCH 18" HDPE
S-4	MANHOLE	TYPE J	695330.11	923506.81	13.00	7.50	–	5.30	–	EXFILT. TRENCH & 18" HDPE TO EX-1
S-5	FDOT DBI-C	TYPE C	695084.20	923551.41	12.50	–	7.57	–	–	CONNECT TO EX. EXFIL. TRENCH
EX-1	EX. CATCH BASIN	N/A	695374.08	923646.60	11.35	–	–	7.83	7.71	EX. 12" PVC TO EX-2
EX-2	EX. CATCH BASIN	N/A	695378.80	923613.66	12.21	–	–	–	8.05	EX. 12" PVC TO OUTFALL
EX-3	EX. CATCH BASIN	N/A	695351.65	923506.79	13.00	–	5.15	–	7.10	EX. 18" CMP
EX-8	EX. CATCH BASIN	N/A	695019.46	923551.04	10.38	7.64 (AB)	5.81 (SE)	–	–	EX. 18" CMP (N) EX. 10" PVC (SE)

NOT FOR CONSTRUCTION

MARC A. FERMANIAN LICENSE No 52626 STATE OF FLORIDA PROFESSIONAL ENGINEER

MARC A. FERMANIAN, P.E.
PROFESSIONAL ENGINEER NO. 52626
STATE OF FLORIDA

DATE:

NO.	REVISION	DATE
	50% CD SET	04/10/14
	DRC COMM#2	04/17/14

CONSULTANT:

CRJ & Associates, Inc.
Consulting Engineers and Planners
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PROPOSED NEW FIRE STATION 50
NW 45 AVE.

NW 43 AVE. & COCONUT CREEK PARKWAY
COCONUT CREEK, FLORIDA

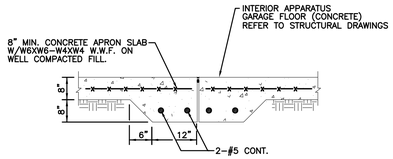
CPZ ARCHITECTS, INC.
4316 WEST BROWARD BOULEVARD
PLANTATION, FLORIDA 33317
PHONE: (954) 792-8325 FAX: (954) 337-0359
AA #26000685 WWW.CPZARCHITECTS.COM

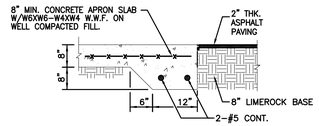
DRAWING TITLE:

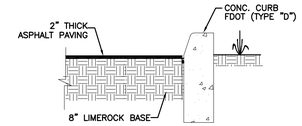
PAVING GRADING AND DRAINAGE PLAN

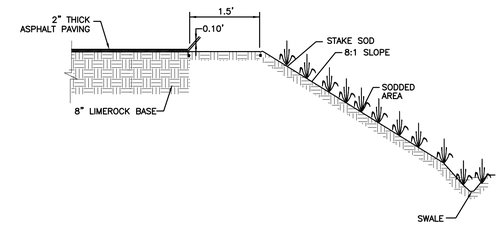
DRAWN	C.E.O.
CHECKED	M.A.F.
DATE	04/10/2014
SCALE	AS NOTED
PROJ. NO.	CNK-1018
SHEET:	C-3

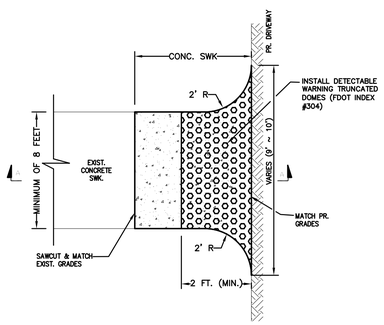
C-3.DWG

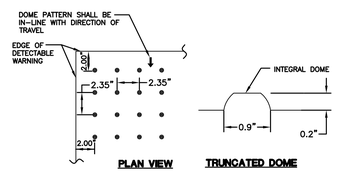












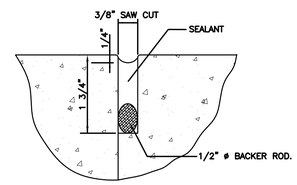
NOTES:

1. DETECTABLE WARNING PER FDOT INDEX # 304

2. ALL SIDEWALK CURB RAMPS SHALL HAVE DETECTABLE WARNING SURFACES THAT EXTEND THE FULL WIDTH OF THE RAMP AND IN THE DIRECTION OF TRAVEL 24" INCHES FROM THE BACK OF CURB.

DETECTABLE WARNING DETAIL

N.T.S.

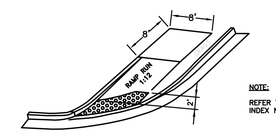


EXPANSION JOINT DETAILS (A) (B)

N.T.S.

A = SAW-CUT JOINT

B = CONSTRUCTION JOINT (NO SAW-CUT)



NOTE:

REFER TO FDOT INDEX NO. 304

PUBLIC SIDEWALK CURB RAMP (CR 21)

N.T.S.

C-4.DWG

NOT FOR CONSTRUCTION

MARC A. FERMANIAN
LICENSE
No 52626
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

MARC A. FERMANIAN, P.E.
PROFESSIONAL ENGINEER NO. 52626
STATE OF FLORIDA

DATE:

NO.	REVISION	DATE
	DRC COMMENTS	3/17/14

CONSULTANT:

CRJ & Associates, Inc.
Consulting Engineers and Planners
Florida Authorization # 0008245
3999 Inverrary Boulevard, Suite 3-210, Lauderhill, Florida 33319
Tel. (954) 584-1616 • Fax (954) 584-1619

PROPOSED NEW FIRE STATION 50
NW 45 AVE.

NW 43 AVE. & COCONUT CREEK PARKWAY
COCONUT CREEK, FLORIDA

CPZ ARCHITECTS, INC.
4316 WEST BROWARD BOULEVARD
PLANTATION, FLORIDA 33317
PHONE: (954) 792-8525 FAX: (954) 337-0359
AA #26000685 WWW.CPZARCHITECTS.COM

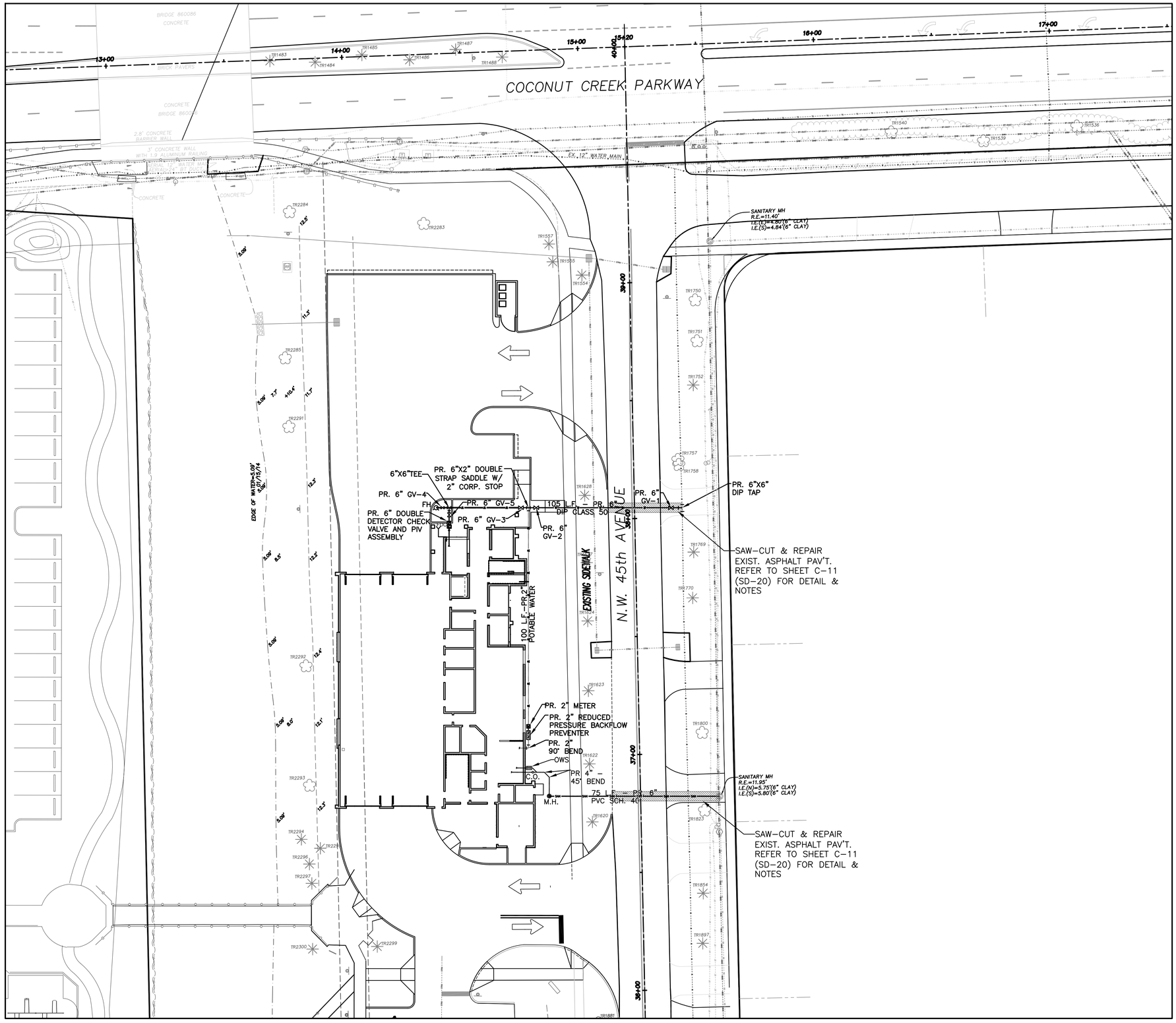
DRAWING TITLE:

DETAILS

DRAWN	C.E.O.
CHECKED	M.A.F.
DATE	03/17/2014
SCALE	AS NOTED
PROJ. NO.	CNK-1018

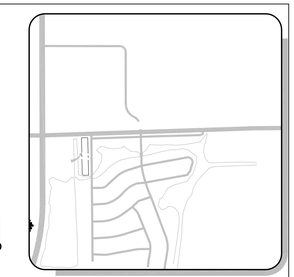
SHEET:

C-4



SCALE: 1" = 20'

GRAPHIC SCALE 0 5 10 20 40



LOCATION MAP

NOT TO SCALE

NO.	REVISION	DATE
	DRC COMMENTS	3/17/14

CONSULTANT:

CRJ & Associates, Inc.
Consulting Engineers and Planners
Florida Authorization # 0008245
3999 Inverrary Blvd. Suite 2-101, Lauderhill, Florida 33319
Tel. (954) 584-1616 • Fax (954) 584-1629

PROPOSED NEW FIRE STATION 50
NW 45 AVE.

NW 43 AVE. & COCONUT CREEK PARKWAY
COCONUT CREEK, FLORIDA

CPZ ARCHITECTS, INC.
416 WEST BROWARD BOULEVARD
PLANTATION, FLORIDA 33317
PHONE: (954) 792-8525 FAX: (954) 337-0359
AA #26000685 WWW.CPZARCHITECTS.COM

NOT FOR CONSTRUCTION

MARC A. FERMANIAN LICENSE No 52626 STATE OF FLORIDA PROFESSIONAL ENGINEER

MARC A. FERMANIAN, P.E.
PROFESSIONAL ENGINEER NO. 52626
STATE OF FLORIDA

DRAWING TITLE:

WATER AND SEWER PLAN

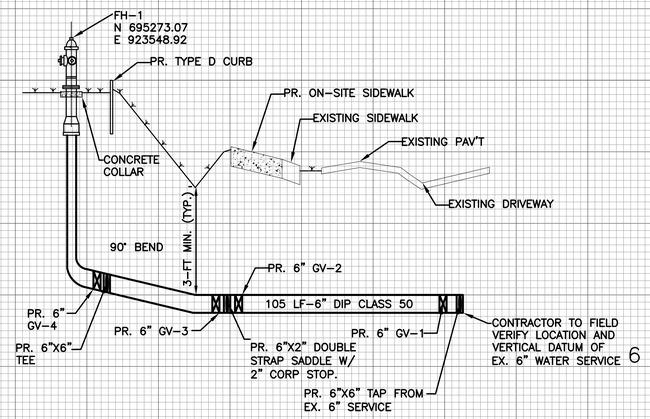
DRAWN	C.E.O.
CHECKED	M.A.F.
DATE	03/17/2014
SCALE	AS NOTED
PROJ. NO.	CNK-1018

SHEET:

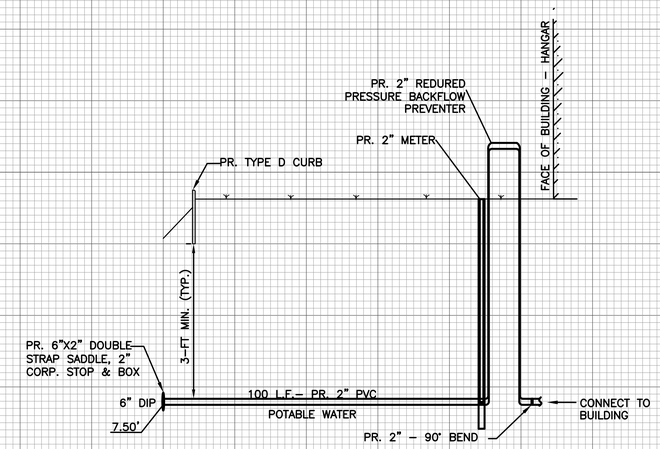
C-5

C-5.DWG

DATE:



PROFILE A
WEST TO EAST
PR. 6" DIP WM FROM FIRE HYDRANT TO EX. 6" SERVICE



PROFILE B
NORTH TO SOUTH
PR. 2" POTABLE WATER SERVICE

Scale:
Horizontal: 1"=20'
Vertical: 1"=2'

NOT FOR CONSTRUCTION

MARC A. FERMANIAN
LICENSE
No 52626
STATE OF FLORIDA
PROFESSIONAL ENGINEER

MARC A. FERMANIAN, P.E.
PROFESSIONAL ENGINEER NO. 52626
STATE OF FLORIDA

DATE:

C-6-7.DWG

NO.	REVISION	DATE
	DRC COMMENTS	3/17/14

CONSULTANT:

CRJ & Associates, Inc.
Consulting Engineers and Planners
Florida Authorization # 0008245
3999 Inverrary Boulevard, Ft. Lauderdale, Florida 33319
Tel. (954) 536-1600 • Fax (954) 536-1601

PROPOSED NEW FIRE STATION 50
NW 45 AVE.

NW 43 AVE. & COCONUT CREEK PARKWAY
COCONUT CREEK, FLORIDA

CPZ ARCHITECTS, INC.

4316 WEST BROWARD BOULEVARD
PLANTATION, FLORIDA 33317 FAX: (954) 337-0359
PHONE: (954) 792-8325 WWW.CPZARCHITECTS.COM
AA 26000085

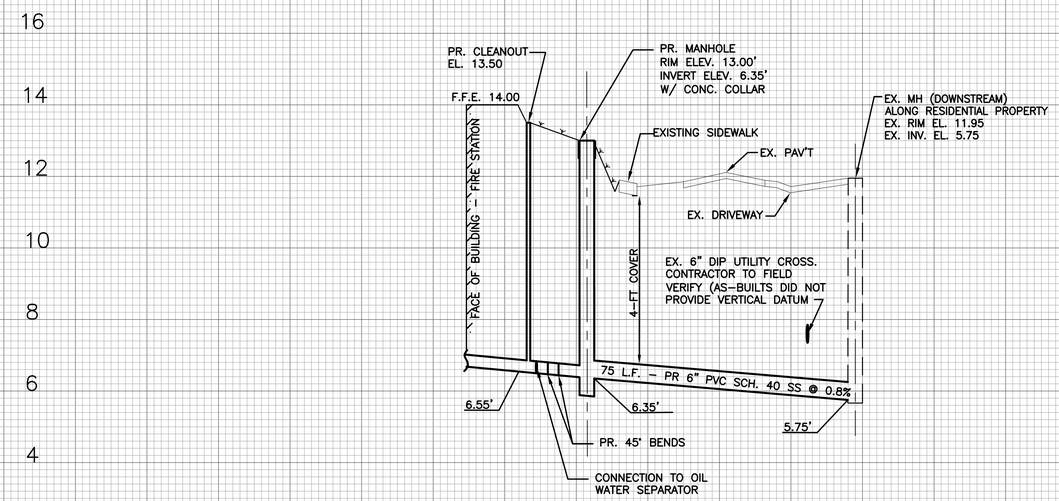
DRAWING TITLE:

WATER PROFILE

DRAWN	C.E.O.
CHECKED	M.A.F.
DATE	03/17/2014
SCALE	AS NOTED
PROJ. NO.	CNK-1018

SHEET:

C-6



PROFILE A

PROPOSED 6" PVC GRAVITY SEWER
FROM EX. MANHOLE TO BUILDING

Scale:
Horizontal: 1"=20'
Vertical: 1"=2'

C-6-7.DWG

NO.	REVISION	DATE
	DRC COMMENTS	3/17/14

CONSULTANT:

CRJ & Associates, Inc.
Consulting Engineers and Planners
Florida Authorization # 0008245
3999 Inverrary Blvd., Suite 2-270, Lauderhill, Florida 33319
Tel. (954) 584-1400 • Fax. (954) 584-1407

PROPOSED NEW FIRE STATION 50
NW 45 AVE.

NW 43 AVE. & COCONUT CREEK PARKWAY
COCONUT CREEK, FLORIDA

CPZ ARCHITECTS, INC.

4316 WEST BROWARD BOULEVARD
PLANTATION, FLORIDA 33317
PHONE: (954) 792-8325 FAX: (954) 337-0359
AA #26000685 WWW.CPZARCHITECTS.COM

NOT FOR CONSTRUCTION

MARC A. FERMANIAN
LICENSE
No 52626
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

MARC A. FERMANIAN, P.E.
PROFESSIONAL ENGINEER NO. 52626
STATE OF FLORIDA

DATE:

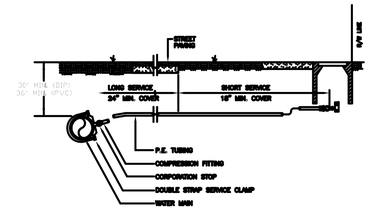
DRAWING TITLE:

SEWER PROFILE

DRAWN	C.E.O.
CHECKED	M.A.F.
DATE	03/17/2014
SCALE	AS NOTED
PROJ. NO.	CNK-1018

SHEET:

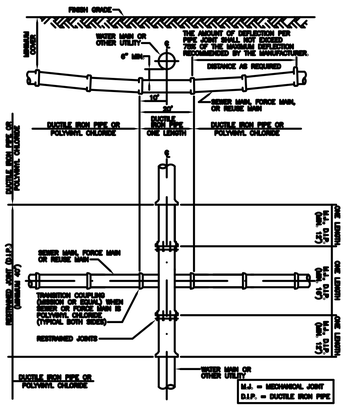
C-7



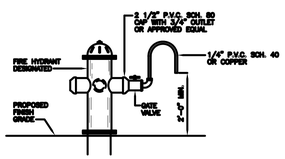
NOTES:

1. SUCCESSIVE TAPS INTO THE WATER MAIN SHALL BE SPACED NOT LESS THAN 18" ON CENTER.
2. SERVICE PIPE SHALL BE SAME SIZE AS THE WATER METER USED EXCEPT THAT NO SERVICE PIPE SHALL BE SMALLER THAN 1".
3. APPROVED TYPE COPPER TUBING MAY BE USED IN PLACE OF PLASTIC.

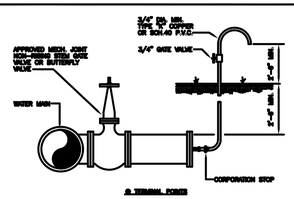
WATER SERVICE CONNECTION DETAIL



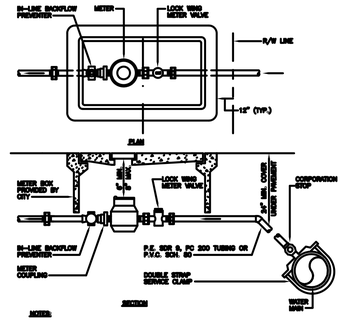
STANDARD UTILITY CROSSING (LESS THAN 18" VERTICAL SEPARATION)



SAMPLING POINTS DETAIL @ FIRE HYDRANTS



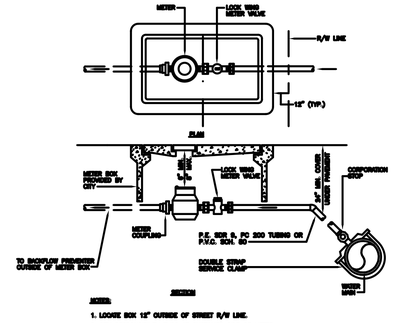
SAMPLING POINTS DETAIL



NOTES:

1. LOCKIE BOX 12" OUTSIDE OF STREET R/W LINE.
2. CITY RESPONSIBILITY ENDS AT CUSTOMER SIDE OF METER.
3. METERS UP TO 2" SHALL BE FURNISHED AND INSTALLED BY CITY. (ALL OTHER WORK BY CUSTOMER)

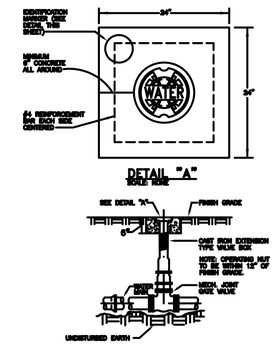
METER INSTALLATION FOR UP TO 1" METER



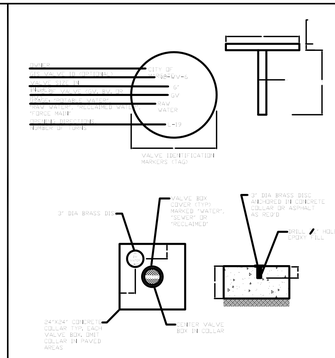
NOTES:

1. LOCKIE BOX 12" OUTSIDE OF STREET R/W LINE.
2. CITY RESPONSIBILITY ENDS AT CUSTOMER SIDE OF METER.
3. METERS UP TO 2" SHALL BE FURNISHED AND INSTALLED BY CITY. (ALL OTHER WORK BY CUSTOMER)

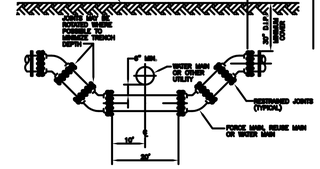
METER INSTALLATION FOR 1 1/2"



VERTICAL GATE VALVE DETAIL



VALVE COLLAR AND IDENTIFICATION MARKER DETAIL



NOTE:
MAXIMUM POSSIBLE DEFLECTION OF THE PIPE WILL BE USED TO SUIT SITE CONDITIONS. DEFLECTION TO BE ONLY BE USED ONLY WHEN ORDERED BY THE ENGINEER.

SPECIAL UTILITY CROSSING

LAYING CONDITION: TYPE 4 (PIPE BEDDED IN SAND, GRAVEL, OR CRUSHED STONE TO THE DEPTH OF 1/8 PIPE DIAMETER, 4 INCHES MINIMUM. BACKFILL COMPACTED TO TOP OF PIPE).

DEPTH OF COVER: 2.5 FEET

WORKING PRESSURE: 150 P.S.I.

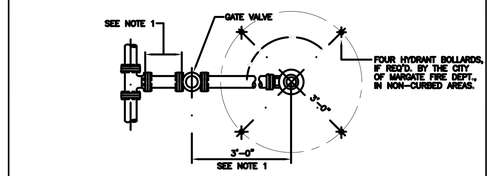
SOIL BEARING: 2,000 P.S.F. AGAINST UNDISTURBED SOIL.

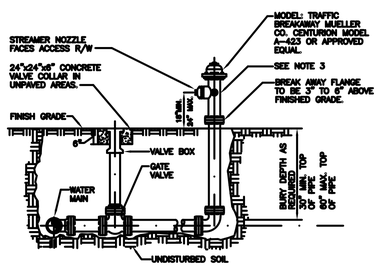
PIPE DIA. (IN.)	11.25d (FT)	22.5d (FT)	45d (FT)	90d (FT)	DEAD END (FT)	TEE (FT)	45d VERT. BEND (FT)	22d VERT. BEND (FT)
4	1	3	6	15	31	5	HORIZ. = 13	HORIZ. = 38
6	5	9	16	31	60	35	20	12
8	6	11	20	42	80	50	25	14
10	7	14	24	52	100	60	26	18
12	8	16	28	63	120	65	30	20
14	10	18	32	73	130	80	35	23
16	11	20	35	84	140	90	40	26
18	12	22	39	94	150	100	45	28
20	13	24	42	105	180	120	55	32
24	14	27	49	126	220	150	65	35

NOTE THAT IN ACTUAL INSTALLATIONS, THE RESTRAINED LENGTH WILL BE IN MULTIPLES OF LENGTH OF ONE PIECE OF PIPE (NORMALLY 16 TO 20 FEET). THUS, FOR EXAMPLE, IF THE RESTRAINED LENGTH FOR 6 INCH PIPE LEADING UP TO A 90 DEGREE BEND IS 30 FEET, TWO FULL LENGTHS OF RESTRAINED PIPE WILL RESULT IN 36 TO 40 FEET OF RESTRAINT, PROVIDING AN ADDITIONAL SAFETY FACTOR. WHERE SHORT CONNECTING PIECES ARE NEEDED TO POSITION FITTINGS, THEY SHOULD, WHEN POSSIBLE, BE PLACED OUTSIDE THE RESTRAINED SECTION FOR MAXIMUM ECONOMY.

THE ABOVE SCHEDULE IS ONLY A GUIDLINE.
THE ENGINEER OF RECORD MUST VERIFY AND REVISE CALCULATIONS TO MEET INSTALLATION REQUIREMENTS.

RESTRAINED PIPE JOINT SCHEDULE

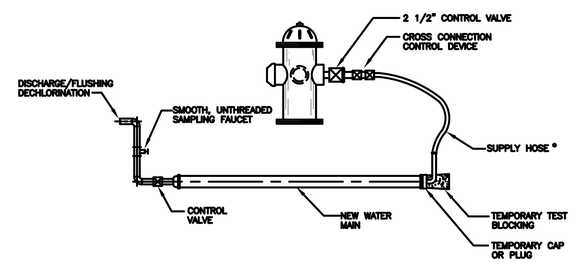




NOTES:

1. ALL FIRE HYDRANTS SHALL BE DIRECTLY CONNECTED TO FIRE HYDRANT SERVICE LINES HAVING A STANDARD INSIDE DIA. OF NOT LESS THAN 6 INCHES.
2. USE RESTRAINT JOINTS FOR ENTIRE ASSEMBLY SHOWN.
3. PAINT BARREL AND BONNET PER CITY REQUIREMENTS.
4. INSTALL BLUE PAVEMENT MARKERS PER CITY REQUIREMENTS.
5. APPROVED LOCKING CAPS AND CHAINS REQUIRED ON ALL NOZZLES.

FIRE HYDRANT CONNECTION DETAIL



* CLEAN POTABLE-WATER HOSE ONLY. SIZE AND NUMBER OF TAPS PER AWWA C651 TABLE. THIS HOSE MUST BE REMOVED DURING THE HYDROSTATIC PRESSURE TEST.

NOTE: THIS DETAIL APPLIES TO PIPES WITH DIAMETERS 4 INCHES THROUGH 12 INCHES. LARGER PIPE SIZES MUST BE HANDELED ON A CASE BY CASE BASIS.

FLUSHING AND FILL CONNECTION DETAIL

NOT FOR CONSTRUCTION

MARC A. FERMANIAN, P.E.
PROFESSIONAL ENGINEER NO. 52626
STATE OF FLORIDA

DATE:

C-8.DWG

NO.	REVISION	DATE
	DRC COMMENTS	3/17/14

CONSULTANT:

CRJ & Associates, Inc.
Consulting Engineers and Planners
Florida Authorization # 0008245
3300 Hiatus Road, Suite 9-170, Plantation, Florida 33324
Tel. (954) 236-1600 / Fax. (954) 236-1601

CITY OF MARGATE
BROWARD COUNTY, FLORIDA
WATER DETAILS

APPROVED BY

DRAWN BY

DATE

SCALE

DETAILS

PROPOSED NEW FIRE STATION 50
NW 45 AVE.

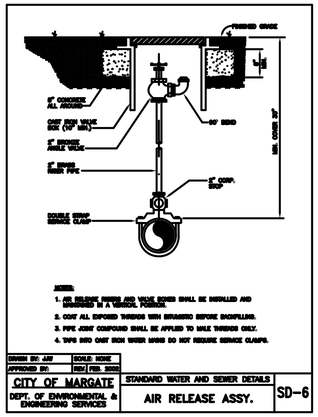
NW 43 AVE. & COCONUT CREEK PARKWAY
COCONUT CREEK, FLORIDA

CPZ ARCHITECTS, INC.
4316 WEST BROWARD BOULEVARD
PLANTATION, FLORIDA 33317
PHONE: (954) 792-8525 FAX: (954) 337-0359
AA #26000685 WWW.CPZARCHITECTS.COM

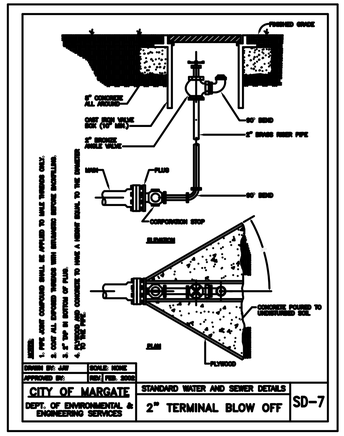
DRAWING TITLE:
WATER DISTRIBUTION DETAILS

DRAWN	C.E.O.
CHECKED	M.A.F.
DATE	03/17/2014
SCALE	AS NOTED
PROJ. NO.	CNK-1018

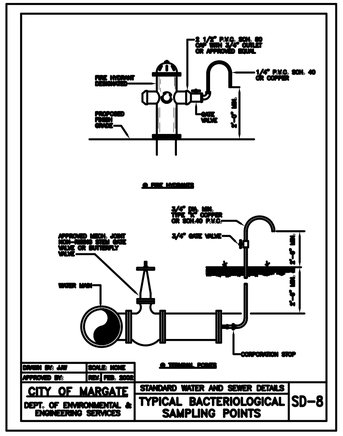
SHEET:
C-8



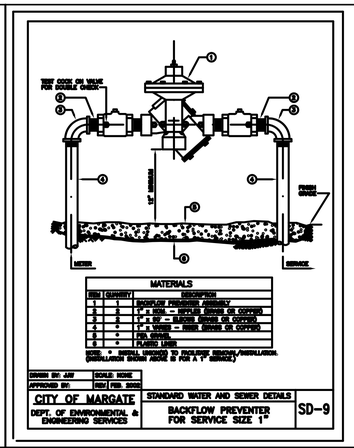
DRAWN BY: AMF	SCALE: NONE
APPROVED BY:	RBM FEB. 2002
CITY OF MARGATE DEPT. OF ENVIRONMENTAL & ENGINEERING SERVICES	STANDARD WATER AND SEWER DETAILS AIR RELEASE ASSY.
SD-6	



DRAWN BY: AMF	SCALE: NONE
APPROVED BY:	RBM FEB. 2002
CITY OF MARGATE DEPT. OF ENVIRONMENTAL & ENGINEERING SERVICES	STANDARD WATER AND SEWER DETAILS 2" TERMINAL BLOW OFF
SD-7	



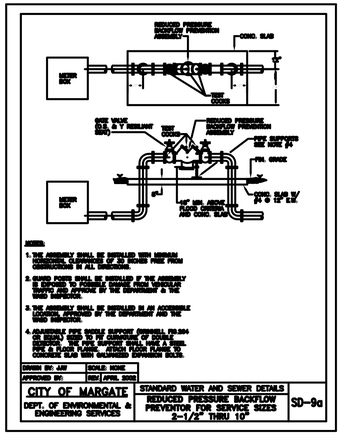
DRAWN BY: AMF	SCALE: NONE
APPROVED BY:	RBM FEB. 2002
CITY OF MARGATE DEPT. OF ENVIRONMENTAL & ENGINEERING SERVICES	STANDARD WATER AND SEWER DETAILS TYPICAL BACTERIOLOGICAL SAMPLING POINTS
SD-8	



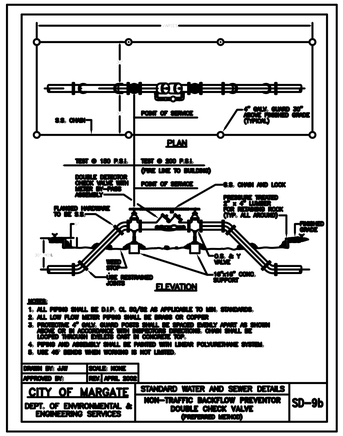
MATERIALS		
ITEM	QUANTITY	DESCRIPTION
1	1	BACKFLOW PREVENTER ASSEMBLY
2	1	1" x NOM. – NIPPLE BRASS OR COPPER
3	1	1" x 1" x 1" – TEE BRASS OR COPPER
4	4	1" x NIPPLE – BRASS OR COPPER
5	4	1" x UNION – BRASS OR COPPER
6	4	PIPE STAND
7	4	FLANGE LINER

NOTE: * INDICA INDICATES TO PROVIDE SERVICE/INSTALLATION.
CONCRETE BLOCK TO BE FOR A 1" SERVICE.

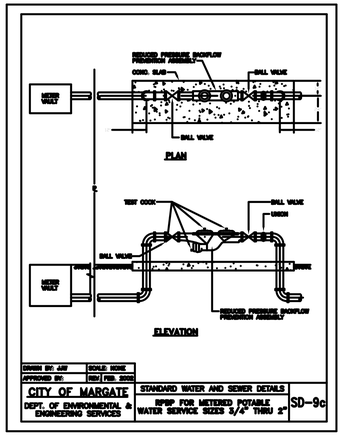
DRAWN BY: AMF	SCALE: NONE
APPROVED BY:	RBM FEB. 2002
CITY OF MARGATE DEPT. OF ENVIRONMENTAL & ENGINEERING SERVICES	STANDARD WATER AND SEWER DETAILS BACKFLOW PREVENTER FOR SERVICE SIZE 1"
SD-9	



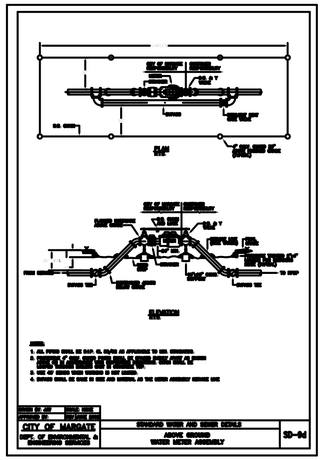
DRAWN BY: AMF	SCALE: NONE
APPROVED BY:	RBM APRIL 2002
CITY OF MARGATE DEPT. OF ENVIRONMENTAL & ENGINEERING SERVICES	STANDARD WATER AND SEWER DETAILS REDUCED PRESSURE BACKFLOW PREVENTOR FOR SERVICE SIZES 2-1/2" THRU 10"
SD-9a	



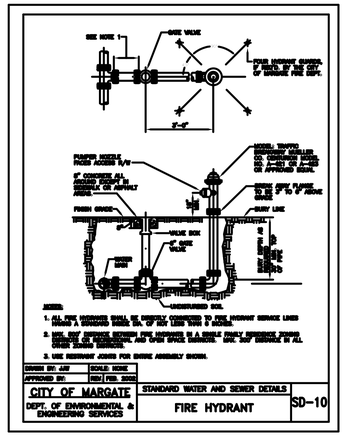
DRAWN BY: AMF	SCALE: NONE
APPROVED BY:	RBM APRIL 2002
CITY OF MARGATE DEPT. OF ENVIRONMENTAL & ENGINEERING SERVICES	STANDARD WATER AND SEWER DETAILS NON-TRAFFIC BACKFLOW PREVENTOR DOUBLE CHECK VALVE (PREFERRED METHOD)
SD-9b	



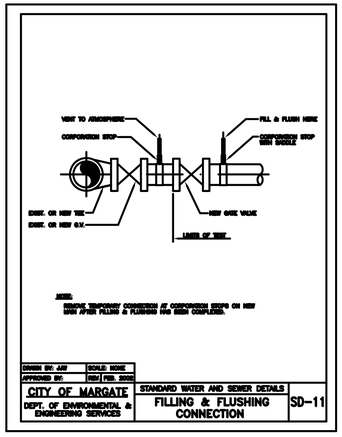
DRAWN BY: AMF	SCALE: NONE
APPROVED BY:	RBM FEB. 2002
CITY OF MARGATE DEPT. OF ENVIRONMENTAL & ENGINEERING SERVICES	STANDARD WATER AND SEWER DETAILS RPBP FOR METERED POTABLE WATER SERVICE SIZES 3/4" THRU 2"
SD-9c	



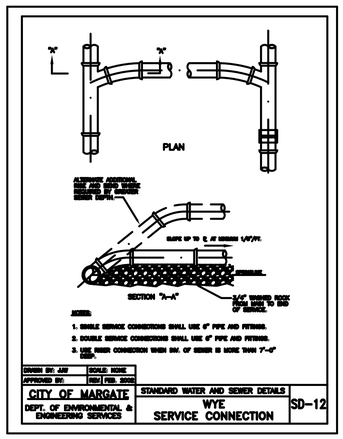
DRAWN BY: AMF	SCALE: NONE
APPROVED BY:	RBM FEB. 2002
CITY OF MARGATE DEPT. OF ENVIRONMENTAL & ENGINEERING SERVICES	STANDARD WATER AND SEWER DETAILS ABOVE GROUND WATER METER ASSEMBLY
SD-9d	



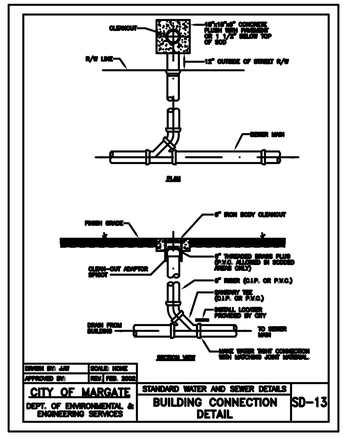
DRAWN BY: AMF	SCALE: NONE
APPROVED BY:	RBM FEB. 2002
CITY OF MARGATE DEPT. OF ENVIRONMENTAL & ENGINEERING SERVICES	STANDARD WATER AND SEWER DETAILS FIRE HYDRANT
SD-10	



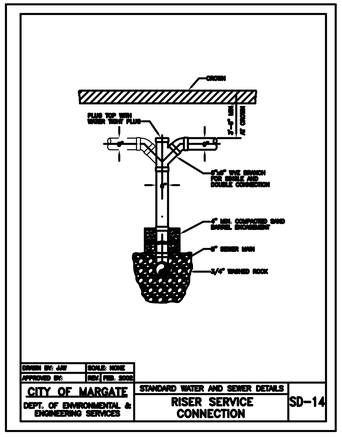
DRAWN BY: AMF	SCALE: NONE
APPROVED BY:	RBM FEB. 2002
CITY OF MARGATE DEPT. OF ENVIRONMENTAL & ENGINEERING SERVICES	STANDARD WATER AND SEWER DETAILS FILLING & FLUSHING CONNECTION
SD-11	



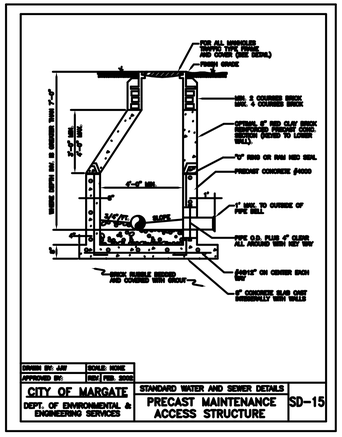
DRAWN BY: AMF	SCALE: NONE
APPROVED BY:	RBM FEB. 2002
CITY OF MARGATE DEPT. OF ENVIRONMENTAL & ENGINEERING SERVICES	STANDARD WATER AND SEWER DETAILS WYE SERVICE CONNECTION
SD-12	



DRAWN BY: AMF	SCALE: NONE
APPROVED BY:	RBM FEB. 2002
CITY OF MARGATE DEPT. OF ENVIRONMENTAL & ENGINEERING SERVICES	STANDARD WATER AND SEWER DETAILS BUILDING CONNECTION DETAIL
SD-13	



DRAWN BY: AMF	SCALE: NONE
APPROVED BY:	RBM FEB. 2002
CITY OF MARGATE DEPT. OF ENVIRONMENTAL & ENGINEERING SERVICES	STANDARD WATER AND SEWER DETAILS RISER SERVICE CONNECTION
SD-14	



DRAWN BY: AMF	SCALE: NONE
APPROVED BY:	RBM FEB. 2002
CITY OF MARGATE DEPT. OF ENVIRONMENTAL & ENGINEERING SERVICES	STANDARD WATER AND SEWER DETAILS PRECAST MAINTENANCE ACCESS STRUCTURE
SD-15	

C-9.DWG

NO. REVISION DATE

DRC COMMENTS 3/17/14

CONSULTANT:

CRJ & Associates, Inc.
Consulting Engineers and Planners
Florida Authorization # 0008245
3999 West Broward Blvd. Plantation, Florida 33312
Tel. (954) 584-0616 / Fax. (954) 584-0337

CITY OF MARGATE
BROWARD COUNTY, FLORIDA
SEWER DETAILS

APPROVED BY

DRAWN BY

DATE

SCALE

DETAILS

NOT FOR CONSTRUCTION

PROPOSED NEW FIRE STATION 50
NW 45 AVE.

NW 43 AVE. & COCONUT CREEK PARKWAY
COCONUT CREEK, FLORIDA

CPZ ARCHITECTS, INC.
4316 WEST BROWARD BOULEVARD
PLANTATION, FLORIDA 33317
PHONE: (954) 792-8525 FAX: (954) 337-0359
AA #26000685 WWW.CPZARCHITECTS.COM

MARC A. FERMANIAN
LICENSE
No 52626
STATE OF FLORIDA
PROFESSIONAL ENGINEER

MARC A. FERMANIAN, P.E.
PROFESSIONAL ENGINEER NO. 52626
STATE OF FLORIDA

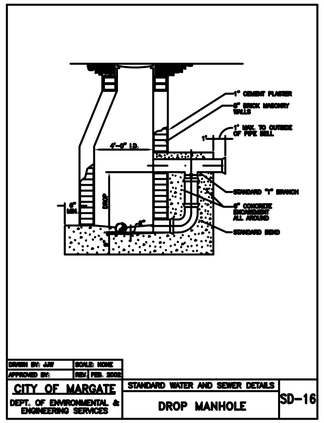
DATE:

DRAWING TITLE:
SANITARY SEWER DETAILS

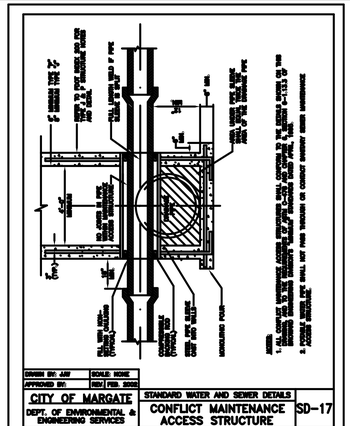
DRAWN	C.E.O.
CHECKED	M.A.F.
DATE	03/17/2014
SCALE	AS NOTED
PROJ. NO.	CNK-1018

SHEET:

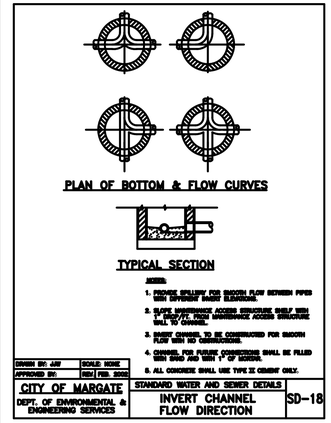
C-9



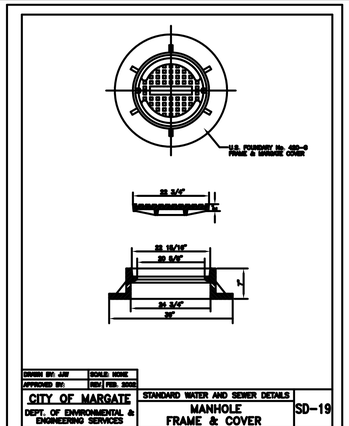
DRAWN BY: AJF | SCALE: NONE
APPROVED BY: | REV/ FEB. 2002
CITY OF MARGATE — DEPT. OF ENVIRONMENTAL & ENGINEERING SERVICES
STANDARD WATER AND SEWER DETAILS
DROP MANHOLE — SD-16



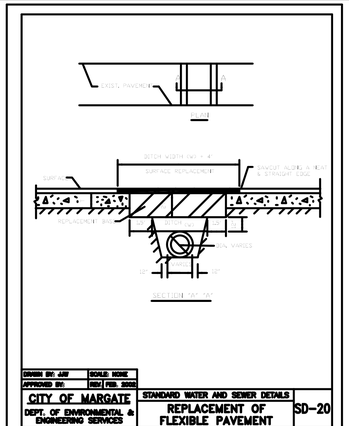
DRAWN BY: AJF | SCALE: NONE
APPROVED BY: | REV/ FEB. 2002
CITY OF MARGATE — DEPT. OF ENVIRONMENTAL & ENGINEERING SERVICES
STANDARD WATER AND SEWER DETAILS
CONFLICT MAINTENANCE ACCESS STRUCTURE — SD-17



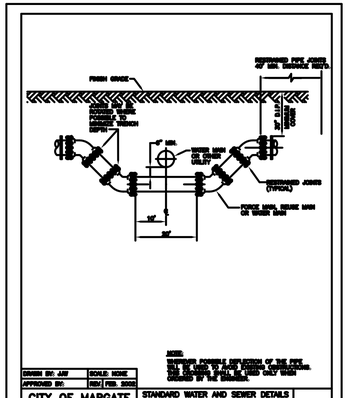
DRAWN BY: AJF | SCALE: NONE
APPROVED BY: | REV/ FEB. 2002
CITY OF MARGATE — DEPT. OF ENVIRONMENTAL & ENGINEERING SERVICES
STANDARD WATER AND SEWER DETAILS
INVERT CHANNEL FLOW DIRECTION — SD-18



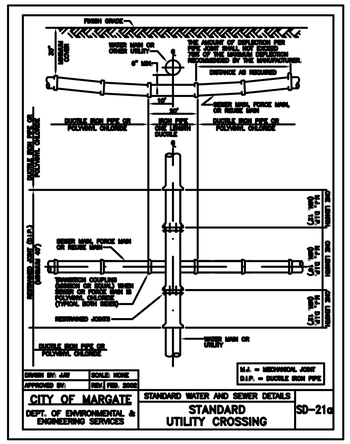
DRAWN BY: AJF | SCALE: NONE
APPROVED BY: | REV/ FEB. 2002
CITY OF MARGATE — DEPT. OF ENVIRONMENTAL & ENGINEERING SERVICES
STANDARD WATER AND SEWER DETAILS
MANHOLE FRAME & COVER — SD-19



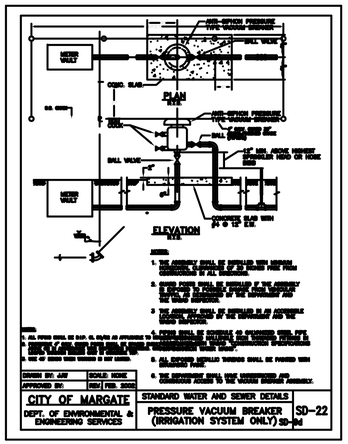
DRAWN BY: AJF | SCALE: NONE
APPROVED BY: | REV/ FEB. 2002
CITY OF MARGATE — DEPT. OF ENVIRONMENTAL & ENGINEERING SERVICES
STANDARD WATER AND SEWER DETAILS
REPLACEMENT OF FLEXIBLE PAVEMENT — SD-20



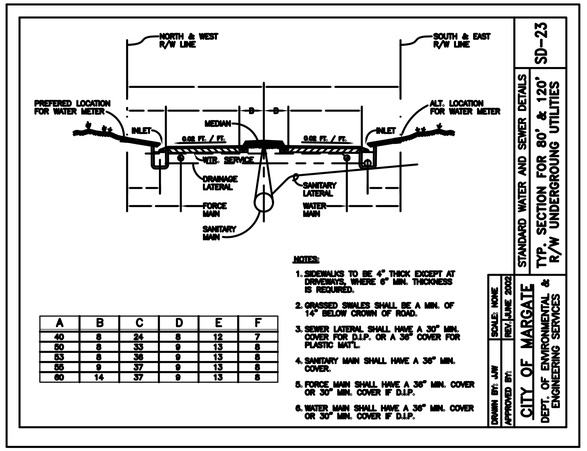
DRAWN BY: AJF | SCALE: NONE
APPROVED BY: | REV/ FEB. 2002
CITY OF MARGATE — DEPT. OF ENVIRONMENTAL & ENGINEERING SERVICES
STANDARD WATER AND SEWER DETAILS
SPECIAL UTILITY CROSSING — SD-21



DRAWN BY: AJF | SCALE: NONE
APPROVED BY: | REV/ FEB. 2002
CITY OF MARGATE — DEPT. OF ENVIRONMENTAL & ENGINEERING SERVICES
STANDARD WATER AND SEWER DETAILS
STANDARD UTILITY CROSSING — SD-21a



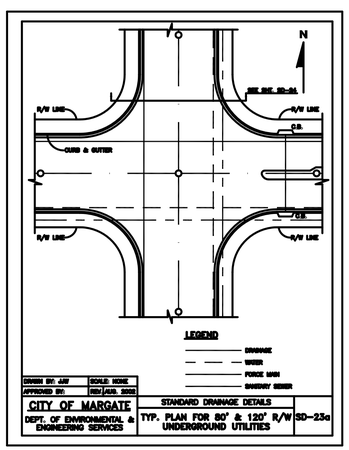
DRAWN BY: AJF | SCALE: NONE
APPROVED BY: | REV/ FEB. 2002
CITY OF MARGATE — DEPT. OF ENVIRONMENTAL & ENGINEERING SERVICES
STANDARD WATER AND SEWER DETAILS
PRESSURE VACUUM BREAKER (IRRIGATION SYSTEM ONLY) — SD-22



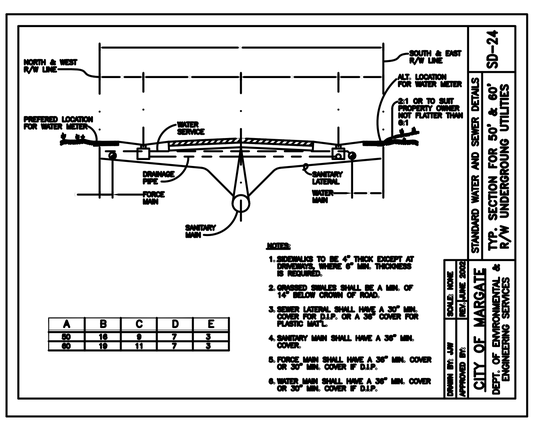
A	B	C	D	E	F
40	8	24	8	12	7
50	8	33	9	13	8
53	8	36	9	13	8
56	9	37	9	13	8
60	14	37	9	13	8

NOTES:
1. SIDEWALKS TO BE 4" THICK EXCEPT AT DRIVEWAYS, WHERE 6" MIN. THICKNESS IS REQUIRED.
2. GRASSED SWALES SHALL BE A MIN. OF 14" BELOW CROWN OF ROAD.
3. SEWER LATERAL SHALL HAVE A 30" MIN. COVER FOR D.I.P. OR A 36" COVER FOR PLASTIC MAT'L.
4. SANITARY MAIN SHALL HAVE A 36" MIN. COVER.
5. FORCE MAIN SHALL HAVE A 36" MIN. COVER OR 30" MIN. COVER IF D.I.P.
6. WATER MAIN SHALL HAVE A 36" MIN. COVER OR 30" MIN. COVER IF D.I.P.

DRAWN BY: AJF | SCALE: NONE
APPROVED BY: | REV/ JUNE 2002
CITY OF MARGATE — DEPT. OF ENVIRONMENTAL & ENGINEERING SERVICES
STANDARD WATER AND SEWER DETAILS
TYP. SECTION FOR 80' & 120' R/W UNDERGROUNG UTILITIES — SD-23



DRAWN BY: AJF | SCALE: NONE
APPROVED BY: | REV/ AUG. 2002
CITY OF MARGATE — DEPT. OF ENVIRONMENTAL & ENGINEERING SERVICES
STANDARD DRAINAGE DETAILS
TYP. PLAN FOR 80' & 120' R/W UNDERGROUND UTILITIES — SD-23a



NOTES:
1. SIDEWALKS TO BE 4" THICK EXCEPT AT DRIVEWAYS, WHERE 6" MIN. THICKNESS IS REQUIRED.
2. GRASSED SWALES SHALL BE A MIN. OF 14" BELOW CROWN OF ROAD.
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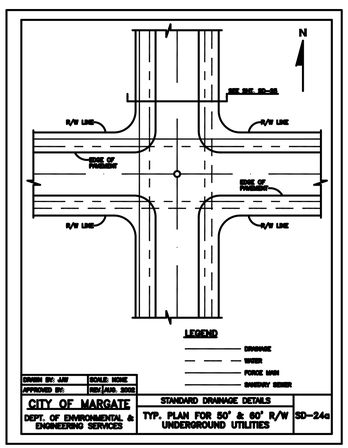
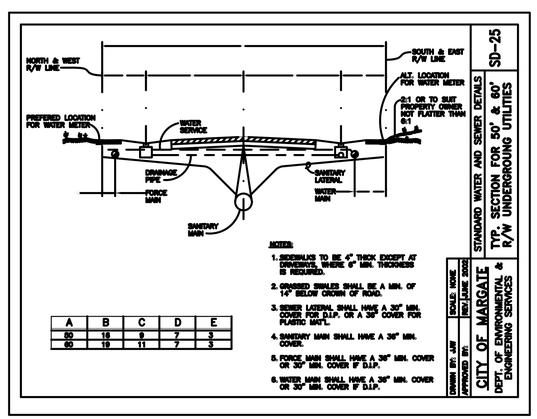
6. WATER MAIN SHALL HAVE A 36" MIN. COVER OR 30" MIN. COVER IF D.I.P.

A	B	C	D	E
50	16	9	7	3
60	19	11	7	3

DRAWN BY: AJF | SCALE: NONE
APPROVED BY: | REV/ JUNE 2002
CITY OF MARGATE — DEPT. OF ENVIRONMENTAL & ENGINEERING SERVICES
STANDARD WATER AND SEWER DETAILS
TYP. SECTION FOR 50' & 60' R/W UNDERGROUNG UTILITIES — SD-24



DRAWN BY: AJF | SCALE: NONE
APPROVED BY: | REV/ AUG. 2002
CITY OF MARGATE — DEPT. OF ENVIRONMENTAL & ENGINEERING SERVICES
STANDARD DRAINAGE DETAILS
TYP. PLAN FOR 50' & 60' R/W UNDERGROUND UTILITIES — SD-24a



NOTES:
1. SIDEWALKS TO BE 4" THICK EXCEPT AT DRIVEWAYS, WHERE 6" MIN. THICKNESS IS REQUIRED.
2. GRASSED SWALES SHALL BE A MIN. OF 14" BELOW CROWN OF ROAD.
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6. WATER MAIN SHALL HAVE A 36" MIN. COVER OR 30" MIN. COVER IF D.I.P.

A	B	C	D	E
50	16	9	7	3
60	19	11	7	3

DRAWN BY: AJF | SCALE: NONE
APPROVED BY: | REV/ JUNE 2002
CITY OF MARGATE — DEPT. OF ENVIRONMENTAL & ENGINEERING SERVICES
STANDARD WATER AND SEWER DETAILS
TYP. SECTION FOR 50' & 60' R/W UNDERGROUNG UTILITIES — SD-25

C-10.DWG

CITY OF MARGATE
BROWARD COUNTY, FLORIDA
SEWER DETAILS

APPROVED BY

DRAWN BY

DATE

SCALE

DETAILS

NOT FOR CONSTRUCTION

MARC A. FERMANIAN — LICENSE No 52626 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

MARC A. FERMANIAN, P.E.
PROFESSIONAL ENGINEER NO. 52626
STATE OF FLORIDA

DATE:

NO.	REVISION	DATE
	DRC COMMENTS	3/17/14

CONSULTANT:

CRJ & Associates, Inc.
Consulting Engineers and Planners
Florida Authorization # 0008245
3999 West Broward Blvd. Plantation, Florida 33314
Tel. (954) 584-9616 / Fax (954) 584-1439

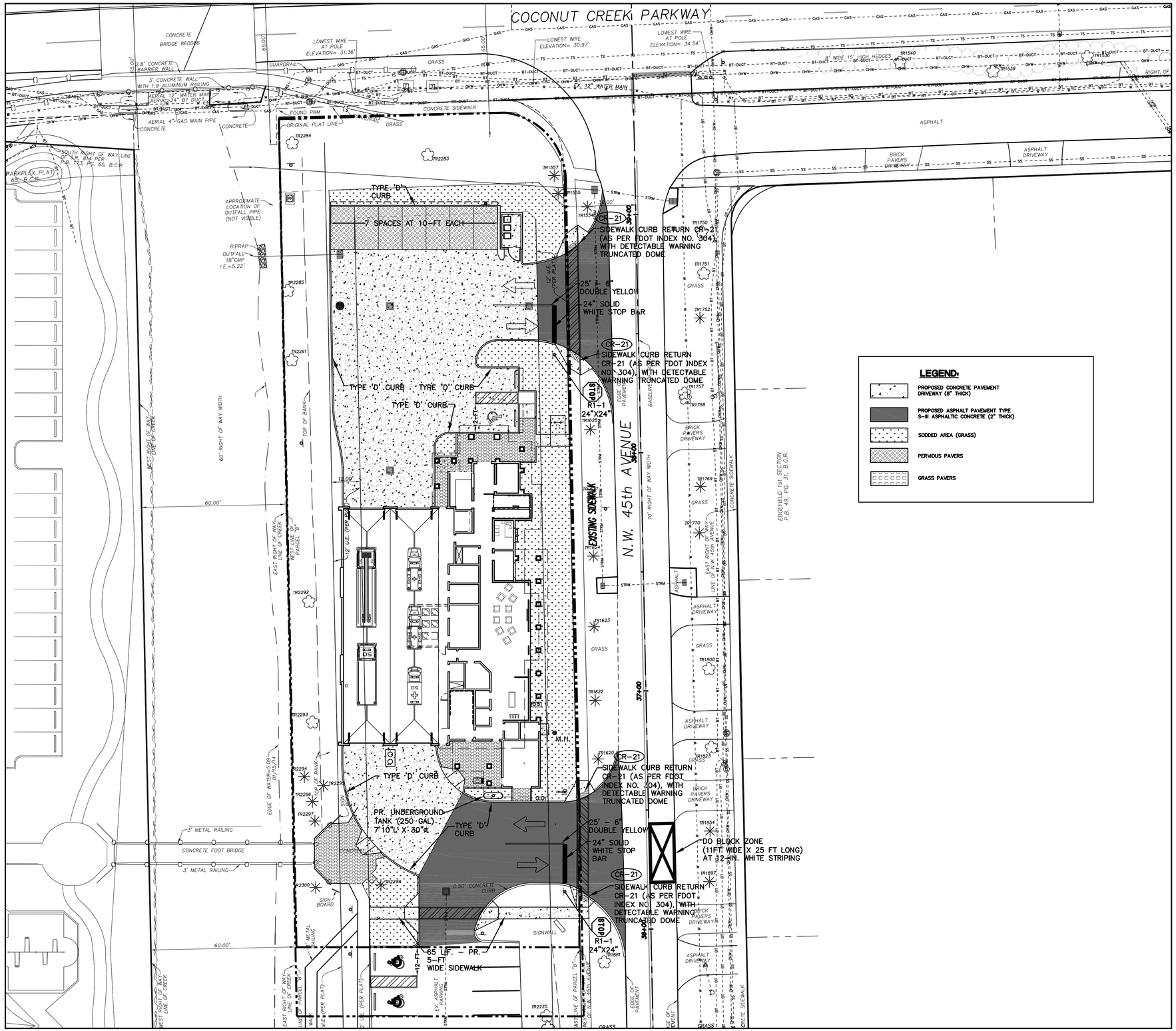
PROPOSED NEW FIRE STATION 50
NW 45 AVE.

NW 43 AVE. & COCONUT CREEK PARKWAY
COCONUT CREEK, FLORIDA

CPZ ARCHITECTS, INC.
4316 WEST BROWARD BOULEVARD
PLANTATION, FLORIDA 33317
PHONE: (954) 792-8525 FAX: (954) 337-0359
AA #26006685 WWW.CPZARCHITECTS.COM

DRAWING TITLE:
SANITARY SEWER DETAILS

DRAWN	C.E.O.
CHECKED	M.A.F.
DATE	03/17/2014
SCALE	AS NOTED
PROJ. NO.	CNK-1018
SHEET:	C-10

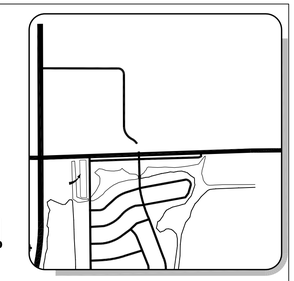


LEGEND:

- PROPOSED CONCRETE PAVEMENT DRIVEWAY (8" THICK)
- PROPOSED ASPHALT PAVEMENT TYPE S-III ASPHALTIC CONCRETE (2" THICK)
- SODDED AREA (GRASS)
- PERVIOUS PAVERS
- GRASS PAVERS

SCALE: 1" = 20'

GRAPHIC SCALE 0 5 10 20 40



LOCATION MAP

NOT TO SCALE

NO.	REVISION	DATE
	50% CD SET	04/10/14
	DRC COMM#2	04/17/14

CONSULTANT:

CRJ & Associates, Inc.
Consulting Engineers and Planners
Florida Authorization # 0008245
3000 Weston Road, Suite 301, Fort Lauderdale, Florida 33331
Tel. (954) 384-1600 / Fax (954) 384-1607

PROPOSED NEW FIRE STATION 50
NW 45 AVE.

NW 43 AVE. & COCONUT CREEK PARKWAY
COCONUT CREEK, FLORIDA

CPZ ARCHITECTS, INC.
4316 WEST BROWARD BOULEVARD
PLANTATION, FLORIDA 33317
PHONE: (954) 792-8525 FAX: (954) 337-0359
AA #26006085 WWW.CPZARCHITECTS.COM

NOT FOR CONSTRUCTION

MARC A. FERMANIAN LICENSE No 52626 STATE OF FLORIDA PROFESSIONAL ENGINEER

MARC A. FERMANIAN, P.E.
PROFESSIONAL ENGINEER NO. 52626
STATE OF FLORIDA

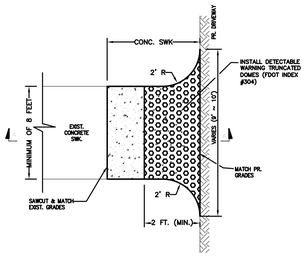
DRAWING TITLE:

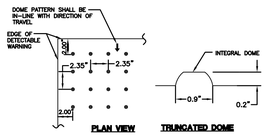
MARKING AND SIGNAGE PLAN

DRAWN	C.E.O.
CHECKED	M.A.F.
DATE	04/10/2014
SCALE	AS NOTED
PROJ. NO.	CNK-1018
SHEET:	C-11

C-11.DWG

DATE:





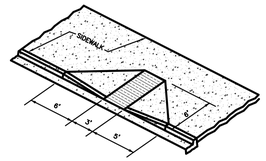
PLAN VIEW TRUNCATED DOME

NOTES:

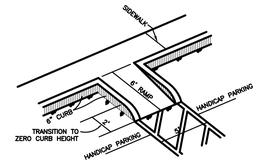
1. DETECTABLE WARNING PER FDOT INDEX # 304
2. ALL SIDEWALK CURB RAMPS SHALL HAVE DETECTABLE WARNING SURFACES THAT EXTEND THE FULL WIDTH OF THE RAMP AND IN THE DIRECTION OF TRAVEL 24" INCHES FROM THE BACK OF CURB.

DETECTABLE WARNING DETAIL

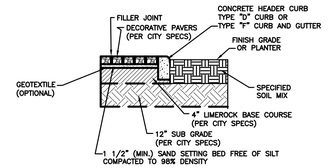
N.T.S.

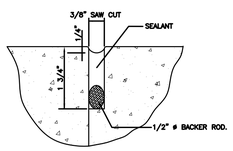


HANDICAP RAMP



RAMP AT HANDICAP PARKING



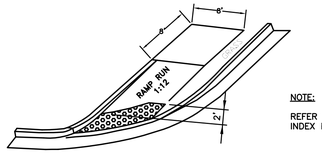


EXPANSION JOINT DETAILS (A) (B)

N.T.S.

A = SAW-CUT JOINT

B = CONSTRUCTION JOINT (NO SAW-CUT)

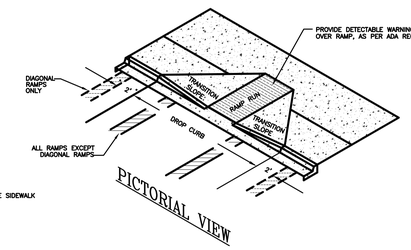


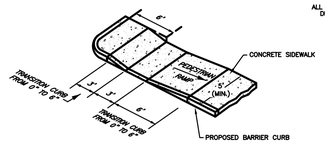
NOTE:

REFER TO FDOT INDEX NO. 304

PUBLIC SIDEWALK CURB RAMP (CR 21)

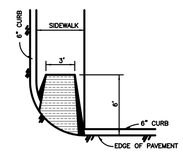
N.T.S.



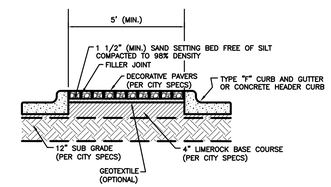


SAMPLE PEDESTRIAN RAMPS

Fig: 407



RAMP AT BULL NOSE

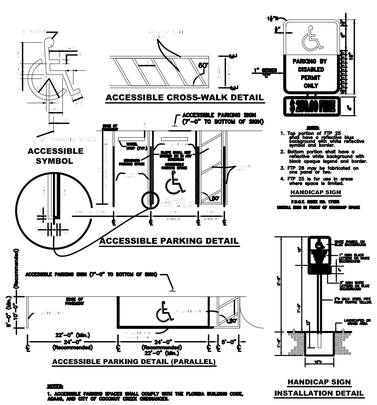


NOTES:

1. PAVERS TO BE INSTALLED FLUSH WITH TOP OF CURB.
2. PAVERS TO BE INSTALLED PER ASTM C 1272.

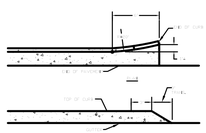
PAVER INSTALLATION

Fig: 405

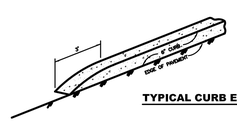


HANDICAP PARKING DETAILS

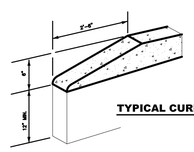
Fig: 320



CURB & GUTTER TERMINATION DETAIL



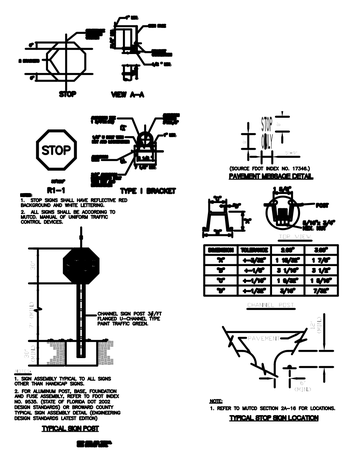
TYPICAL CURB ENDING



TYPICAL CURB TERMINATION

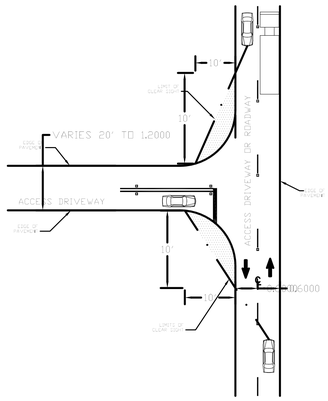
CURB TERMINATION DETAILS

Fig: 351



STOP SIGN AND TYPICAL SIGN BRACKET DETAIL

Fig: 313



DRIVEWAY CONNECTION

NOTE: FOR CONNECTIONS WITH PUBLIC ROADWAYS, REFER TO FDOT INDEX 546.

SIGHT VISIBILITY TRIANGLE

Fig: 550A

NO.	REVISION	DATE
	50% CD SET	04/10/14
	DRC COMM#2	04/17/14

CONSULTANT:

CRJ & Associates, Inc.
Consulting Engineers and Planners
Florida Authorization # 0008245
3999 Wiley Road, Suite 2-101, Plantation, Florida 33314
Tel. (954) 584-1616 / Fax (954) 584-1629

PROPOSED NEW FIRE STATION 50
NW 45 AVE.

NW 43 AVE. & COCONUT CREEK PARKWAY
COCONUT CREEK, FLORIDA

CPZ ARCHITECTS, INC.

4316 WEST BROWARD BOULEVARD
PLANTATION, FLORIDA 33317
PHONE: (954) 792-8525 FAX: (954) 337-0359
AA #26000685 WWW.CPZARCHITECTS.COM

NOT FOR CONSTRUCTION

MARC A. FERMANIAN LICENSE No 52626 STATE OF FLORIDA PROFESSIONAL ENGINEER

MARC A. FERMANIAN, P.E.
PROFESSIONAL ENGINEER NO. 52626
STATE OF FLORIDA

DATE:

DRAWING TITLE:

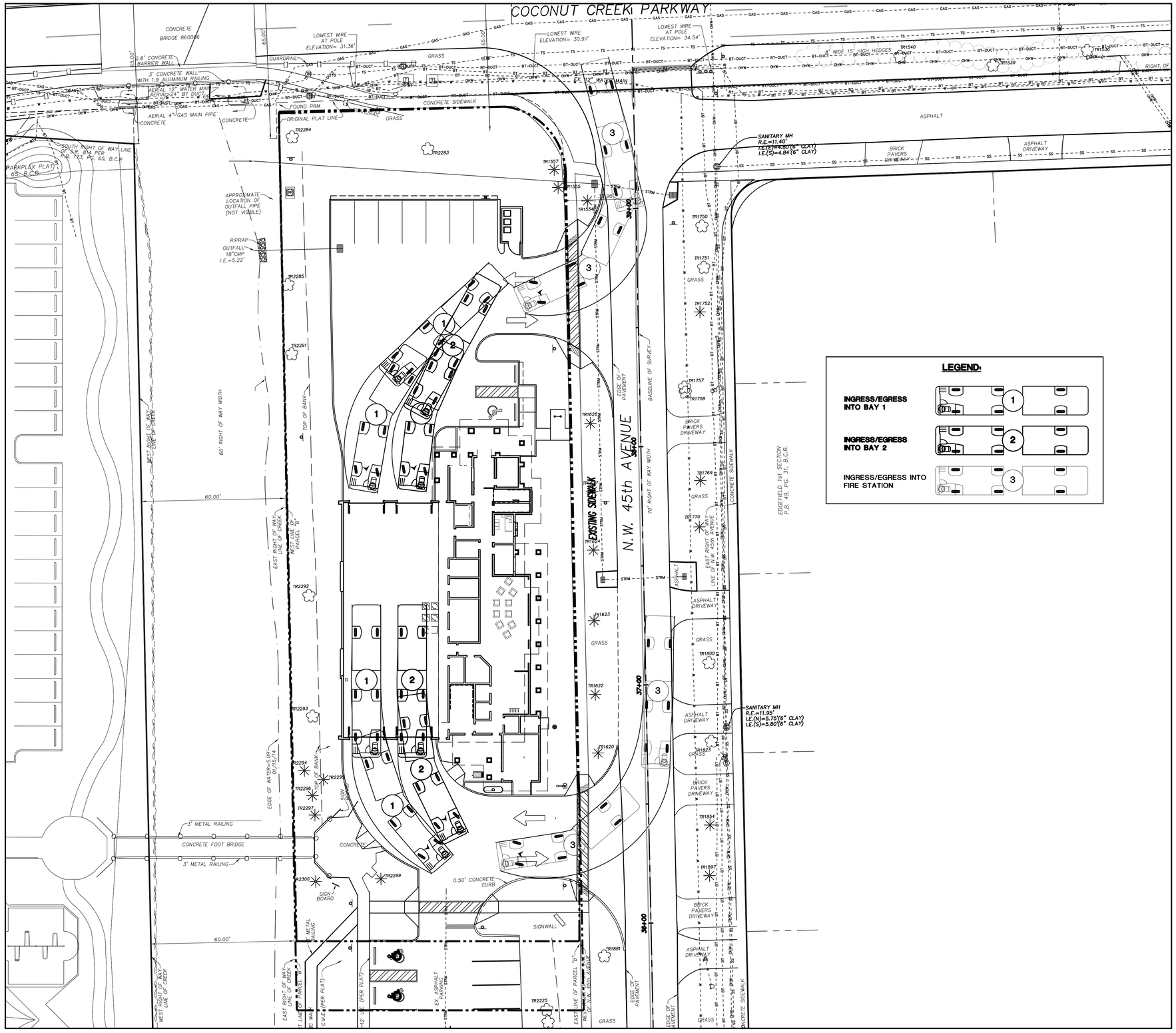
MARKING SIGNAGE,SIDEWALK DETAILS

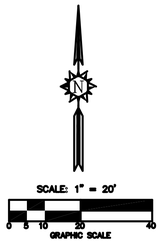
DRAWN	C.E.O.
CHECKED	M.A.F.
DATE	04/10/2014
SCALE	AS NOTED
PROJ. NO.	CNK-1018

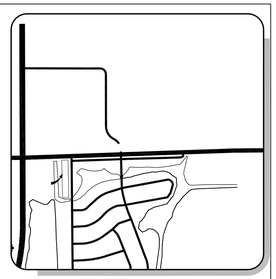
SHEET:

C-12

C-12.DWG







LOCATION MAP

NOT TO SCALE

NO.	REVISION	DATE
	50% CD SET	04/10/14
	DRC COMM#2	04/17/14

CONSULTANT:

CRJ & Associates, Inc.
Consulting Engineers and Planners
Florida Authorization # 0008245
3000 Weston Road, Suite 300, Fort Lauderdale, Florida 33331
Tel. (954) 236-1600 • Fax (954) 236-1601

PROPOSED NEW FIRE STATION 50
NW 45 AVE.

NW 43 AVE. & COCONUT CREEK PARKWAY
COCONUT CREEK, FLORIDA

CPZ ARCHITECTS, INC.

4316 WEST BROWARD BOULEVARD
PLANTATION, FLORIDA 33317
PHONE: (954) 792-8325 FAX: (954) 337-0359
AA 26000085 WWW.CPZARCHITECTS.COM

NOT FOR CONSTRUCTION

MARC A. FERMANIAN LICENSE No 52626 STATE OF FLORIDA PROFESSIONAL ENGINEER

MARC A. FERMANIAN, P.E.
PROFESSIONAL ENGINEER NO. 52626
STATE OF FLORIDA

DRAWING TITLE:

TRUCK CIRCULATION PLAN

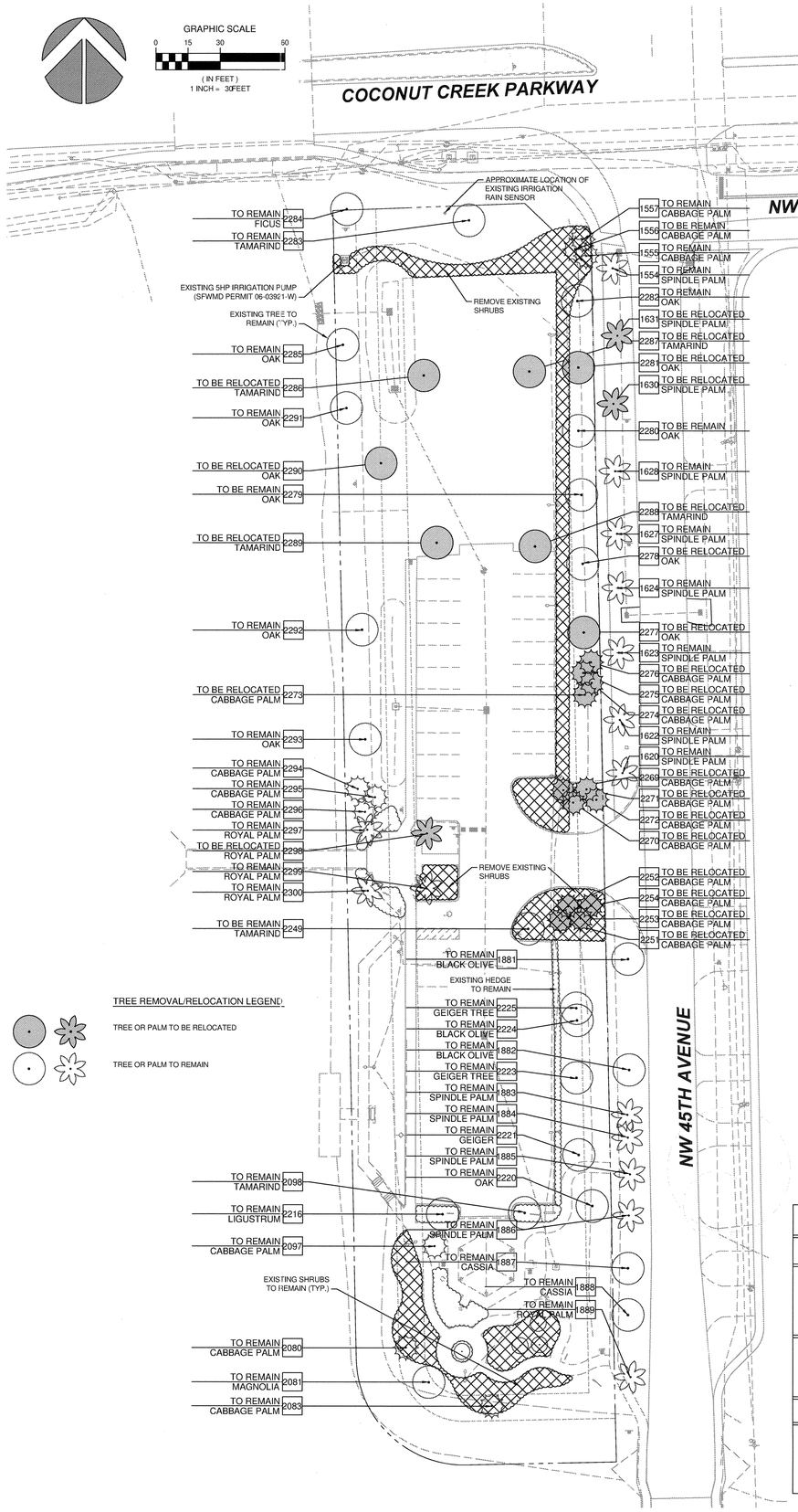
DRAWN	C.E.O.
CHECKED	M.A.F.
DATE	04/10/2014
SCALE	AS NOTED
PROJ. NO.	CNK-1018

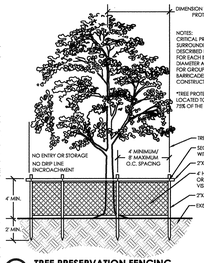
SHEET:

C-13

C-13.DWG

DATE:





1 TREE PRESERVATION FENCING
1/4" = 1'-0" 32934.24

TREE DISPOSITION TABLE

TREE ID #	COMMON NAME	BOTANICAL NAME	TRUNK DBH	HEIGHT	CANOPY SPREAD	ACTION	COMMENT
1221	QUEEN PALM	SYAGRUS ROMANZOFFIANA	12"		170 SF	REMAIN	OFF SITE
1222	QUEEN PALM	SYAGRUS ROMANZOFFIANA	12"		170 SF	REMAIN	OFF SITE
1223	ACACIA	ACACIA AURICULIFORMIS	24"		336 SF	REMAIN	OFF SITE
1483	SOUTAIRE PALM	PTYCHOSPERMA ELEGANS	4"	15'	115 SF	REMAIN	OFF SITE
1484	SOUTAIRE PALM	PTYCHOSPERMA ELEGANS	4"	14'	115 SF	REMAIN	OFF SITE
1485	SOUTAIRE PALM	PTYCHOSPERMA ELEGANS	4"	14'	115 SF	REMAIN	OFF SITE
1486	SOUTAIRE PALM	PTYCHOSPERMA ELEGANS	4"	15'	115 SF	REMAIN	OFF SITE
1487	SOUTAIRE PALM	PTYCHOSPERMA ELEGANS	4"	15'	115 SF	REMAIN	OFF SITE
1488	SOUTAIRE PALM	PTYCHOSPERMA ELEGANS	4"	14'	115 SF	REMAIN	OFF SITE
1509	SOUTAIRE PALM	PTYCHOSPERMA ELEGANS	4"	14'	115 SF	REMAIN	OFF SITE
1510	SOUTAIRE PALM	PTYCHOSPERMA ELEGANS	4"	14'	115 SF	REMAIN	OFF SITE
1511	SOUTAIRE PALM	PTYCHOSPERMA ELEGANS	4"	14'	115 SF	REMAIN	OFF SITE
1531	NOT USED						
1536	NOT USED						
1539	NOT USED						
1540	NOT USED						
1554	SPINDLE PALM	HYOPHORBE VERSCHAFFELTII	12"	7'	50 SF	REMAIN	
1555	CABBAGE PALM	SABAL PALMETTO	12"	15'	115 SF	REMAIN	
1556	CABBAGE PALM	SABAL PALMETTO	11"	18'	115 SF	REMAIN	
1557	CABBAGE PALM	SABAL PALMETTO	15"	16'	115 SF	REMAIN	
1620	SPINDLE PALM	HYOPHORBE VERSCHAFFELTII	12"	8'	50 SF	REMAIN	
1622	SPINDLE PALM	HYOPHORBE VERSCHAFFELTII	12"	8'	50 SF	REMAIN	
1623	SPINDLE PALM	HYOPHORBE VERSCHAFFELTII	12"	8'	50 SF	REMAIN	
1624	SPINDLE PALM	HYOPHORBE VERSCHAFFELTII	12"	8'	50 SF	REMAIN	
1627	SPINDLE PALM	HYOPHORBE VERSCHAFFELTII	12"	7'	50 SF	REMAIN	
1628	SPINDLE PALM	HYOPHORBE VERSCHAFFELTII	12"	8'	50 SF	REMAIN	
1630	SPINDLE PALM	HYOPHORBE VERSCHAFFELTII	12"	8'	50 SF	RELOCATE	
1631	SPINDLE PALM	HYOPHORBE VERSCHAFFELTII	12"	7'	50 SF	RELOCATE	
1750	PINK TABEBUIA	TABEBUIA HETEROPHYLLA	9"		150 SF	REMAIN	OFF SITE
1751	PINK TABEBUIA	TABEBUIA HETEROPHYLLA	7"		150 SF	REMAIN	OFF SITE
1752	SPINDLE PALM	HYOPHORBE VERSCHAFFELTII	12"	4'	50 SF	REMAIN	OFF SITE
1757	RED MAPLE	ACER RUBRUM	8"		125 SF	REMAIN	OFF SITE
1758	RED MAPLE	ACER RUBRUM	8"		125 SF	REMAIN	OFF SITE
1769	DATE PALM	PHOENIX DACTYLIFERA	24"	4'	200 SF	REMAIN	OFF SITE
1770	DATE PALM	PHOENIX DACTYLIFERA	24"	4'	200 SF	REMAIN	OFF SITE
1800	YELLOW TABEBUIA	TABEBUIA CARAIBA	15"		615 SF	REMAIN	OFF SITE
1823	PINK TABEBUIA	TABEBUIA HETEROPHYLLA	18"		170 SF	REMAIN	OFF SITE
1854	SPINDLE PALM	HYOPHORBE VERSCHAFFELTII	12"	6'	50 SF	REMAIN	OFF SITE
1855	SPINDLE PALM	HYOPHORBE VERSCHAFFELTII	12"	6"	50 SF	REMAIN	OFF SITE
1881	BLACK OLIVE	BUCIDA BUCERAS	24"		1,500 SF	REMAIN	
1882	BLACK OLIVE	BUCIDA BUCERAS	16"		970 SF	REMAIN	
1883	SPINDLE PALM	HYOPHORBE VERSCHAFFELTII	12"	7'	50 SF	REMAIN	
1884	SPINDLE PALM	HYOPHORBE VERSCHAFFELTII	12"	7'	50 SF	REMAIN	
1885	SPINDLE PALM	HYOPHORBE VERSCHAFFELTII	12"	5'	50 SF	REMAIN	
1886	SPINDLE PALM	HYOPHORBE VERSCHAFFELTII	12"	8'	50 SF	REMAIN	
1887	CASSIA	CASSIA BAHAMENSIS	8"		200 SF	REMAIN	
1888	CASSIA	CASSIA BAHAMENSIS	8"		200 SF	REMAIN	
1889	ROYAL PALM	ROYSTONEA ELATA	16"	16"	300 SF	REMAIN	
1890	CABBAGE PALM	SABAL PALMETTO	12"	11'	115 SF	REMAIN	OFF SITE
1891	CABBAGE PALM	SABAL PALMETTO	12"	12'	115 SF	REMAIN	OFF SITE
1893	CABBAGE PALM	SABAL PALMETTO	12"	13'	115 SF	REMAIN	OFF SITE
1897	SPINDLE PALM	HYOPHORBE VERSCHAFFELTII	12"	4'	50 SF	REMAIN	OFF SITE
1898	SPINDLE PALM	HYOPHORBE VERSCHAFFELTII	8"	4'	50 SF	REMAIN	OFF SITE
1899	BLACK OLIVE	BUCIDA BUCERAS	24"		2,570 SF	REMAIN	OFF SITE
1903	BLACK OLIVE	BUCIDA BUCERAS	24"		730 SF	REMAIN	OFF SITE
2080	CABBAGE PALM	SABAL PALMETTO	12"	21'	115 SF	REMAIN	
2081	MAGNOLIA	MAGNOLIA GRANDIFLORA	6"		175 SF	REMAIN	
2083	CABBAGE PALM	SABAL PALMETTO	9.00	9'	115 SF	REMAIN	
2097	CABBAGE PALM	SABAL PALMETTO	12"	18'	115 SF	REMAIN	
2098	TAMARIND	LYSILOMA LATISILIQUIM	12"		550 SF	REMAIN	
2216	LIGUSTRUM	LIGUSTRUM JAPONICUM	9"		135 SF	REMAIN	
2220	OAK	QUERCUS VIRGINIANA	15"		605 SF	REMAIN	
2221	ORANGE GEIGER	CORDIA SEBESTINA	3"		175 SF	REMAIN	
2223	ORANGE GEIGER	CORDIA SEBESTINA	3"		175 SF	REMAIN	
2224	BLACK OLIVE	BUCIDA BUCERAS	3"		175 SF	REMAIN	
2225	ORANGE GEIGER	CORDIA SEBESTENA	3"		175 SF	REMAIN	
2249	TAMARIND	LYSILOMA LATISILIQUIM	12"		460 SF	REMAIN	
2251	CABBAGE PALM	SABAL PALMETTO	12"	19'	115 SF	RELOCATE	
2252	CABBAGE PALM	SABAL PALMETTO	12"	15'	115 SF	RELOCATE	
2253	CABBAGE PALM	SABAL PALMETTO	12"	13'	115 SF	RELOCATE	
2254	CABBAGE PALM	SABAL PALMETTO	12"	15'	115 SF	RELOCATE	
2269	CABBAGE PALM	SABAL PALMETTO	12"	17'	115 SF	RELOCATE	
2270	CABBAGE PALM	SABAL PALMETTO	12"	15'	115 SF	RELOCATE	
2271	CABBAGE PALM	SABAL PALMETTO	10"	13'	115 SF	RELOCATE	
2272	CABBAGE PALM	SABAL PALMETTO	12"	13'	115 SF	RELOCATE	
2273	CABBAGE PALM	SABAL PALMETTO	14"	18'	115 SF	RELOCATE	
2274	CABBAGE PALM	SABAL PALMETTO	12"	13'	115 SF	RELOCATE	
2275	CABBAGE PALM	SABAL PALMETTO	10"	17'	115 SF	RELOCATE	
2276	CABBAGE PALM	SABAL PALMETTO	14"	18'	115 SF	RELOCATE	
2277	OAK	QUERCUS VIRGINIANA	20"		1,175 SF	RELOCATE	
2278	OAK	QUERCUS VIRGINIANA	20"		530 SF	REMAIN	
2279	OAK	QUERCUS VIRGINIANA	16"		675 SF	REMAIN	
2280	OAK	QUERCUS VIRGINIANA	20"		600 SF	REMAIN	
2281	OAK	QUERCUS VIRGINIANA	18"		440 SF	RELOCATE	
2282	OAK	QUERCUS VIRGINIANA	18"		794 SF	REMAIN	
2283	TAMARIND	LYSILOMA LATISILIQUIM	12"		375 SF	REMAIN	
2284	FICUS	FICUS SPP.	60"		3,522 SF	REMAIN	
2285	OAK	QUERCUS VIRGINIANA	23"		417 SF	REMAIN	
2286	TAMARIND	LYSILOMA LATISILIQUIM	10"		236 SF	RELOCATE	
2287	TAMARIND	LYSILOMA LATISILIQUIM	10"		550 SF	RELOCATE	
2288	TAMARIND	LYSILOMA LATISILIQUIM	10"		680 SF	RELOCATE	
2289	TAMARIND	LYSILOMA LATISILIQUIM	8"		320 SF	RELOCATE	
2290	OAK	QUERCUS VIRGINIANA	23"		600 SF	RELOCATE	
2291	OAK	QUERCUS VIRGINIANA	20"		290 SF	REMAIN	
2292	OAK	QUERCUS VIRGINIANA	10"		266 SF	REMAIN	
2293	OAK	QUERCUS VIRGINIANA	8"		282 SF	REMAIN	
2294	CABBAGE PALM	SABAL PALMETTO	10"	16'	115 SF	REMAIN	
2295	CABBAGE PALM	SABAL PALMETTO	10"	19'	115 SF	REMAIN	
2296	CABBAGE PALM	SABAL PALMETTO	10"	18'	115 SF	REMAIN	
2297	ROYAL PALM	ROYSTONEA ELATA	16"	17'	300 SF	REMAIN	
2298	ROYAL PALM	ROYSTONEA ELATA	16"	18'	300 SF	RELOCATE	
2299	ROYAL PALM	ROYSTONEA ELATA	16"	14'	300 SF	REMAIN	
2300	ROYAL PALM	ROYSTONEA ELATA	24"	20'	300 SF	REMAIN	

TREE PRESERVATION AND PROTECTION REQUIREMENTS

SECTION 13-448. PRESERVATION AND PROTECTION OF TREES AND TREE PRESERVATION TRUST ACCOUNT

CODE APPLICATION	AREA/QUANTITY/METHODOLOGY
13-448(G)(1)	
A. TREE COVERAGE ON-SITE SHALL FIRST BE DETERMINED USING ONE (1) OR ANY COMBINATION OF THE FOLLOWING METHODS: REVIEW OF AERIAL PHOTOGRAPHY, ON-SITE INSPECTION, AND/OR REVIEW OF A TREE SURVEY. THE CITY SHALL REQUIRE THE APPLICANT TO SUBMIT A TREE SURVEY IN ORDER TO MAKE THIS DETERMINATION, UNLESS THE APPLICANT CAN DEMONSTRATE THAT IT IS CLEARLY UNNECESSARY.	TREE LOCATIONS AND SPECIES DETERMINED BY: • BOUNDARY AND TOPOGRAPHIC SURVEY AS PROVIDED BY STONER AND ASSOCIATES DATED 01.16.14. • CANOPY SQUARE FOOTAGE CALCULATED VIA LABINS AERIAL IMAGERY . • TREE SPECIES UNDEFINED BY THE BOUNDARY & TOPOGRAPHIC SURVEY DENOTED AS "UNKNOWN" VERIFIED BY GOOGLE STREET VIEW AND APPROVED COCONUT CREEK COMMUNITY CENTER LANDSCAPE PLANS PREPARED BY SCHARF & ASSOCIATES, LATEST REVISION 06.24.04
B. RELOCATION OF TREES ON-SITE WILL BE COUNTED TOWARDS EQUIVALENT REPLACEMENT. RELOCATION OF TREES OFF-SITE SHALL BE COUNTED AS HALF CREDIT TOWARDS EQUIVALENT REPLACEMENT. GUIDELINES IN THIS SECTION SHALL BE FOLLOWED FOR ANY TREES TO BE RELOCATED.	THE TREES NOTED BELOW ARE PROPOSED FOR RELOCATION: • THIRTEEN (12) CABBAGE PALMS • ONE (1) ROYAL PALM • TWO (2) SPINDLE PALMS • SEVEN (3) LIVE OAK TREES • FOUR (4) TAMARIND TREES 22 TOTAL TREES PROPOSED FOR RELOCATION
C. NATIVE TREES IDENTIFIED IN 13-448 APPENDIX 1 AND APPENDIX 2 SHALL BE REQUIRED TO REPLACE NATIVE TREE COVERAGE REMOVED.	
D. A DETERMINATION OF THE NUMBER OF TREES TO BE REPLACED SHALL BE PERFORMED. THIS DETERMINATION SHALL BE BASED UPON THE AREA OF IMPACT AND THE CATEGORY OF REPLACEMENT TREES SELECTED BY THE APPLICANT. THE REPLACEMENT AT TREE MATURITY SHALL AT LEAST EQUAL THE CANOPY REMOVED. THE FOLLOWING TABLE SHALL BE USED TO DETERMINE THE NUMBER OF REQUIRED REPLACEMENT TREES:	REFER TO LANDSCAPE PLANS FOR TREE RELCOATIONS.

TREE REMOVAL/RELOCATION LEGEND

TREE OR PALM TO BE RELOCATED

TREE OR PALM TO REMAIN

1.00 GENERAL NOTES:

A. THE LOCATIONS OF ALL TREES PROPOSED FOR RELOCATION SHALL BE COORDINATED WITH CITY OF COCONUT CREEK DIVISION OF PARKS AND NATURAL RESOURCES. 954.973.6780.

1.01 ROOT PRUNING, WATERING & BEFORE TRANSPLANTING:

A. TREE RELOCATION, ROOT PRUNING AND TRIMMING, SHALL BE PERFORMED UNDER THE SUPERVISION OF A CERTIFIED & LICENSED ARBORIST.
B. ROOT PRUNE TREES A MINIMUM OF EIGHT (8) WEEKS PRIOR TO MOVING THEM. PRIOR TO ROOT PRUNING, THOROUGHLY WATER THE ROOT ZONE WITH AT LEAST 2 TO 3 INCHES OF WATER. 2 TO 3 DAYS PRIOR TO ROOT PRUNING. IF THE TREE HAS A DORMANT PERIOD, THEY SHOULD NOT BE TRANSPLANTED DURING THAT TIME. SEE BELOW FOR RELOCATION TIMELINE.
   1. CROWN PRUNING FOR STRUCTURAL DEFICIENCIES AND CLEARANCE ISSUES FOR THE ROUTE TAKEN TO THE RELOCATION AREA.
   2. SPRAY A PHOTOSYNTHETIC HERBICIDE OVER ANY EXISTING PLANT MATERIAL OR GRASS WITHIN THE LIMITS OF ROOT PRUNING.
   3. PROVIDE TEMPORARY IRRIGATION FOR EACH TREE UNTIL RELOCATION.
   4. ROOT PRUNE 100% OF THE ROOT SYSTEM OF EACH TREE.
   5. BACKFILL TRENCH WITH PLANTING SOIL.
   6. FERTILIZE WITHIN THE ROOT ZONE.
   7. PREPARE THE RELOCATION AREA; PROVIDE IRRIGATION TO THE BASE OF EACH TREE. PROVIDE IRRIGATION TO THE CROWN OF EACH TREE ON A SEPARATE ZONE.
   9. RELOCATE THE TREES.
C. ROOT PRUNING SHALL BE ACCOMPLISHED BY DIGGING A TRENCH TWO-THIRDS (2/3) OF THE WAY AROUND THE TREE AT A MINIMUM OF 24" DEEP. ROOT PRUNE ONLY WITH A MECHANICAL ROOT-PRUNING SAW OR A TRENCHER WITH A MAXIMUM TRENCH WIDTH OF 8". THIS TRENCH SHALL FORM A 6' DIAMETER ROOTBALL.
D. ALL EXPOSED ROOTS SHALL BE CUT OFF SMOOTHLY, WITH SHARP INSTRUMENTS. BACKFILL TRENCHES WITH SOIL CONSISTING OF 30% SILICA SAND AND 70% MUCK. WATER THEM THOROUGHLY AFTER ROOT PRUNING, AND ONCE WEEKLY DURING THE ROOT REGENERATION PERIOD, WITH A SOLUBLE FERTILIZER THAT HAS A 20-20-20 ANALYSIS AT MANUFACTURER'S RECOMMENDED RATE.

1.02 TOP PRUNING AND THINNING:

A. THE AMOUNT OF GENERAL PRUNING AND THINNING SHALL BE LIMITED TO THE MINIMUM NECESSARY TO REMOVE DEAD OR INJURED TWIGS OR BRANCHES AS A RESULT OF TRANSPLANTING OPERATIONS. PRUNING AND THINNING SHALL BE DONE IN SUCH A MANNER AS NOT TO CHANGE THE NATURAL HABIT OR SHAPE OF A PLANT. THE PROJECT LANDSCAPE ARCHITECT SHALL BE CONTACTED PRIOR TO PERFORMING ANY MAJOR PRUNING OR THINNING.
B. ALL CROWN PRUNING SHALL BE DONE IN ACCORDANCE WITH AMERICAN NATIONAL STANDARDS INSTITUTE A-300 STANDARDS OR ACCORDANCE WITH THE STANDARDS IN "Arboriculture Second Edition" by Richard W. Harris, CURRENT EDITION.

1.03 BRACING AND GUYING OF TREES AFTER ROOT PRUNING:

A. BRACING AND GUYING SHALL BE PROVIDED TO ASSURE THE TREES' STABILITY DURING THE ROOT REGENERATION PERIOD: AS PER THE APPLICABLE DETAIL.

1.04 BALLING AND BURLAPPING

A. PLANT MATERIAL, WHICH IS IN A SOIL OF A LOOSE TEXTURE, WHICH DOES NOT READILY ADHERE TO THE ROOT SYSTEM, ESPECIALLY IN THE CASE OF LARGE PLANTS OR TREES, SHALL HAVE THE ROOTBALL WRAPPED IN BURLAP AND THEN WIRE, UNLESS OTHERWISE DIRECTED BY THE PROJECT LANDSCAPE ARCHITECT.

1.05 TRANSPLANTING PLANT MATERIAL

A. MOVEMENT OF PLANTS ON PUBLIC R.O.W.'S SHALL COMPLY WITH ALL ORDINANCES, CODES AND SAFETY REQUIREMENTS, ETC.
B. TRANSPORT MATERIALS ON VEHICLES LARGE ENOUGH TO ALLOW PLANTS TO NOT BE CROWDED AND DAMAGED. PLANTS SHALL BE COVERED TO PREVENT WIND DAMAGE DURING TRANSIT.
C. PROTECT PLANT MATERIAL DURING TRANSPORTING TO PREVENT DAMAGE TO THE ROOT SYSTEM AND DESICCATION OF LEAVES. TREES SHALL BE PROTECTED BY TYING IN THE BRANCHES AND COVERING ALL EXPOSED BRANCHES AS NECESSARY. DO NOT BEND OR BIND-TIE PLANT MATERIAL IN SUCH A MANNER AS TO DAMAGE BARK, BREAK BRANCHES OR ALTER THE NATURAL SHAPE.
D. THE CONTRACTOR SHALL EXERCISE CARE IN HANDLING, LOADING, UNLOADING, STORING, AND TRANSPORTING MATERIAL TO PREVENT DAMAGE. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR PROTECTION AND SAFEKEEPING OF MATERIALS STORED.
E. TRANSPORTING MUST BE DONE WITHIN 24 HOURS AFTER BEING DUG. STORE PLANTS IN SHADE AND KEEP THE ROOT BALL AND CANOPY MOIST.

1.06 INSTALLATION

A. EXCAVATION OF HOLES:
PLANT HOLES SHALL BE ROUGHLY CYLINDRICAL IN SHAPE WITH SIDES APPROXIMATELY VERTICAL. THE DEPTH OF THE HOLE SHALL BE EQUAL TO THE ROOTBALL DEPTH PLUS 12" UNLESS FURTHER DEPTH IS REQUIRED TO PROVIDE ADEQUATE DRAINAGE. THE DIAMETER OF THE HOLE SHALL BE A MINIMUM OF 24" LARGER THAN THE ROOTBALL DIAMETER.
B. SETTING OF PLANTS:
PLANT MATERIAL SHALL BE PLANTED AT THEIR NATURAL AND ORIGINAL PLANTING LEVEL PRIOR TO THEIR RELOCATION AND PLACEMENT ON THE NEW SITE. WHEN LOWERED INTO THE HOLE, THE PLANTS SHALL REST ON THE PREPARED HOLE BOTTOM SUCH THAT THE SURFACE ROOTS AT THE TOP OF THE ROOTBALL ARE LEVEL OR SLIGHTLY ABOVE THE LEVEL OF THE TOP OF THE HOLE. CREATE A SAUCER, APPROXIMATELY 6" DEEP TO HELP HOLD WATER. THE PLANTS SHALL BE SET STRAIGHT OR PLUMB OR NORMAL TO THE RELATIONSHIP OR THEIR GROWTH PRIOR TO TRANSPLANTING. THE PROJECT LANDSCAPE ARCHITECT OR REPRESENTATIVE RESERVES THE RIGHT TO REALIGN ANY PLANT MATERIAL AFTER IT HAS BEEN SET, WITHOUT ADDITIONAL COST.
C. BACKFILLING
   1) USE PLANTING SOIL FOR TREE INSTALLATION CONSISTING OF 80/20 MIX OF GENERAL PURPOSE PLANTING SOIL TO SAND. PALMS RECEIVE 30/70 GENERAL PURPOSE PLANTING SOIL TO SAND MIX.
   2) BACKFILL THE BOTTOM TWO-THIRDS OF THE PLANTING HOLE AND FIRMLY TAMP AND SETTLE BY WATERING AS BACKFILLING PROGRESSES. AFTER HAVING TAMPED AND SETTLED THE BOTTOM TWO-THIRDS OF THE HOLE, THOROUGHLY PUDDLE WITH WATER AND FILL REMAINING ONE-THIRD OF THE HOLE WITH PLANTING SOIL. TAMPING AND WATERING TO ELIMINATE AIR POCKETS.

1.07 WATERING TRANSPLANTED TREES:

A. ROOTBALL WATERING: MAINTAIN A SOIL MOISTURE IN THE ROOT ZONE AT AN OPTIMUM LEVEL FOR HEALTHY. DEEP WATER THE ENTIRE ROOTBALL AREA AT A MINIMUM ACCORDING TO THE FOLLOWING SCHEDULE:

WHEN	FREQUENCY	AMOUNT
1ST MONTH	ONCE DAILY	3" PER TREE
2ND MONTH	EVERY OTHER DAY	2" PER TREE
FOLLOWING 2 MONTHS	TWICE A WEEK	1" PER TREE
LAST 8 MONTHS	ONCE PER WEEK	1" PER TREE

B. IF THERE IS NO SOURCE FOR WATER AVAILABLE AT THE PROJECT, SUCH AS A HOSE BIB(S) OR FIRE HYDRANTS(S) IF APPROVED FOR USE, THEN THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING WATER BY MEANS OF A TRUCK OR TANK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PAY ANY FEES FOR WATER USE.
C. THE CONTRACTOR SHALL ADHERE TO THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT'S WATER RESTRICTIONS CURRENT AT THE TIME OF RELOCATION ACTIVITIES.

1.08 MULCHING OF PLANT SAUCER:

A. SPREAD 3" MINIMUM DEPTH THICK LAYER OF SHREDDED EUCALYPTUS OR MELALEUCA GRADE 'B' MULCH OR EQUAL OVER ENTIRE AREA OF THE ROOTBALL.

1.09 APPLICATION OF FERTILIZER:

A. AT TIME OF WATERING ROOT-PRUNED TREES PRIOR TO TRANSPLANTING, DRENCH ROOTBALL ONCE PER WEEK DURING THE COURSE OF WATERING WITH A SOLUBLE FERTILIZER THAT HAS A 20-20-20 ANALYSIS AT MANUFACTURER'S RECOMMENDED RATE.
B. RELOCATED TREES SHALL NOT BE FERTILIZED AT TIME OF PLANTING, BUT SHALL BE WATERED SUFFICIENTLY UNTIL THE TREE GROWTH IS RE-ESTABLISHED. THREE (3) WEEKS AFTER TRANSPLANTING, AND AFTER MULCHING, APPLY ON THE SURFACE, EVENLY SPREAD OVER THE AREA OF THE ENTIRE ROOTBALL. FEC (FLORIDA EAST COAST FERTILIZER CO.) #5231 (12-6-8) OR EQUAL AT THE RATE OF 0.5KG PER 1" OF TRUNK DIAMETER.

1.10 STAKING TREES:

A. STAKE ALL TREES AND PALMS AT THE NEW SITE WITH NEW TIMBERS WITH A MINIMUM 2" X 4" DIMENSION AS PER THE DETAILS ENCLOSED, OR IN THE CASE OF OBSTACLE, IN ANOTHER MANNER WHICH WILL SUPPORT THE TREES.

1.11 CLEAN-UP:

A. DISPOSAL OF WASTE: ALL WASTE AND OTHER OBJECTIONABLE MATERIAL CREATED THROUGH PLANTING OPERATIONS AND LANDSCAPE CONSTRUCTION SHALL BE REMOVED COMPLETELY ON A DAILY BASIS FROM THE JOB OR AS DIRECTED BY THE PROJECT ENGINEER. ANY PAVED AREAS, INCLUDING CURBS AND SIDEWALKS THAT HAVE BEEN STAINED WITH SOIL, SOD WASTE, FERTILIZER OR OTHER WASTE SHALL BE THOROUGHLY SWEPT.
B. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF STAKES AND BATTENS AND UNTIE ANY TIED-UP CANOPIES WHEN IT IS DETERMINED BY THE PROJECT ENGINEER THAT SUFFICIENT TIME HAS ELAPSED FOR THE PLANTS TO ROOT STABILIZE, AND/OR AT THE END OF THE ONE YEAR GUARANTEE PERIOD . THIS SHALL BE DONE EVEN IF THE PROJECT HAS BEEN COMPLETED AND GIVEN FINAL ACCEPTANCE. THE CONTRACTOR SHALL UNTIE CANOPIES IMMEDIATELY AFTER INSTALLATION AND REMOVE STAKES AFTER ONE YEAR.
C. BACKFILLING OF HOLE LEFT BY RELOCATED TREE SHALL BE DONE IMMEDIATELY AFTER TREE REMOVAL. OR SUITABLE BARRICADES SHALL BE PROVIDED TO PREVENT INJURIES UNTIL HOLES ARE FILLED. THE CONTRACTOR SHALL BACKFILL HOLES WITH CLEAN FILL AND TOP SOIL TO A LEVEL FLUSH WITH ADJACENT GRADE.

1.12 GUARANTEE AND REPLACEMENT:

A. ALL RELOCATED PLANT MATERIAL SHALL BE GUARANTEED FOR ONE (1) YEAR FROM TIME OF RELOCATION.
B. ALL TREES THAT LEAN OR ARE BLOWN OVER, CAUSED BY WINDS LESS THAN 75 MPH AS DEFINED BY THE MIAMI HURRICANE CENTER, WILL BE RE-SET AND BRACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.

1.13 SCHEDULE AND APPROVALS:

A. THE LANDSCAPE CONTRACTOR SHALL SUBMIT A WRITTEN SCHEDULE OF OPERATIONS AND WRITTEN REQUESTS FOR APPROVALS IN ACCORDANCE WITH PROJECT SPECIFICATIONS OR AS OTHERWISE AGREED UPON WITH THE OWNER.

1.14 FINAL ACCEPTANCE:

A. OWNER SHALL REVIEW PROJECT UPON NOTIFICATION BY CONTRACTOR. OWNER SHALL ISSUE A FINAL ACCEPTANCE AFTER ALL CONTRACT ITEMS AND OBLIGATIONS ARE SATISFACTORY.

THE CITY OF COCONUT CREEK WILL PERFORM ROOT PRUNING TO THE TREES PROPOSED FOR RELOCATION PRIOR TO CONSTRUCTION. ROOT PRUNING SHALL BE IN ACCORDANCE THE NOTES AND DETAILS ON SHEET L1.01. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATING THE TREES AS SPECIFIED ON THE DRAWINGS.

NOT FOR CONSTRUCTION

CRAIG AL BETANCOURT, RLA
LANDSCAPE ARCHITECT
REGISTRATION NO. LA0000941
STATE OF FLORIDA

NO.	REVISION	DATE
	Site Plan Submittal	2-7-14
	DRC Comments	3-17-14
	50% CD Set	4-10-14
	DRC Comments #2	4-17-14

CONSULTANT:

CHEN·MOORE &ASSOCIATES
CERTIFICATES OF AUTHORIZATION
EB0004593 LC26000425

PROPOSED NEW FIRE STATION 50
NW 45 AVE.
NW 45 AVE. & COCONUT CREEK PARKWAY
COCONUT CREEK, FLORIDA

CPZ ARCHITECTS, INC.
4316 WEST BROWARD BOULEVARD
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PHONE (954) 792-8525 FAX (954) 337-0359
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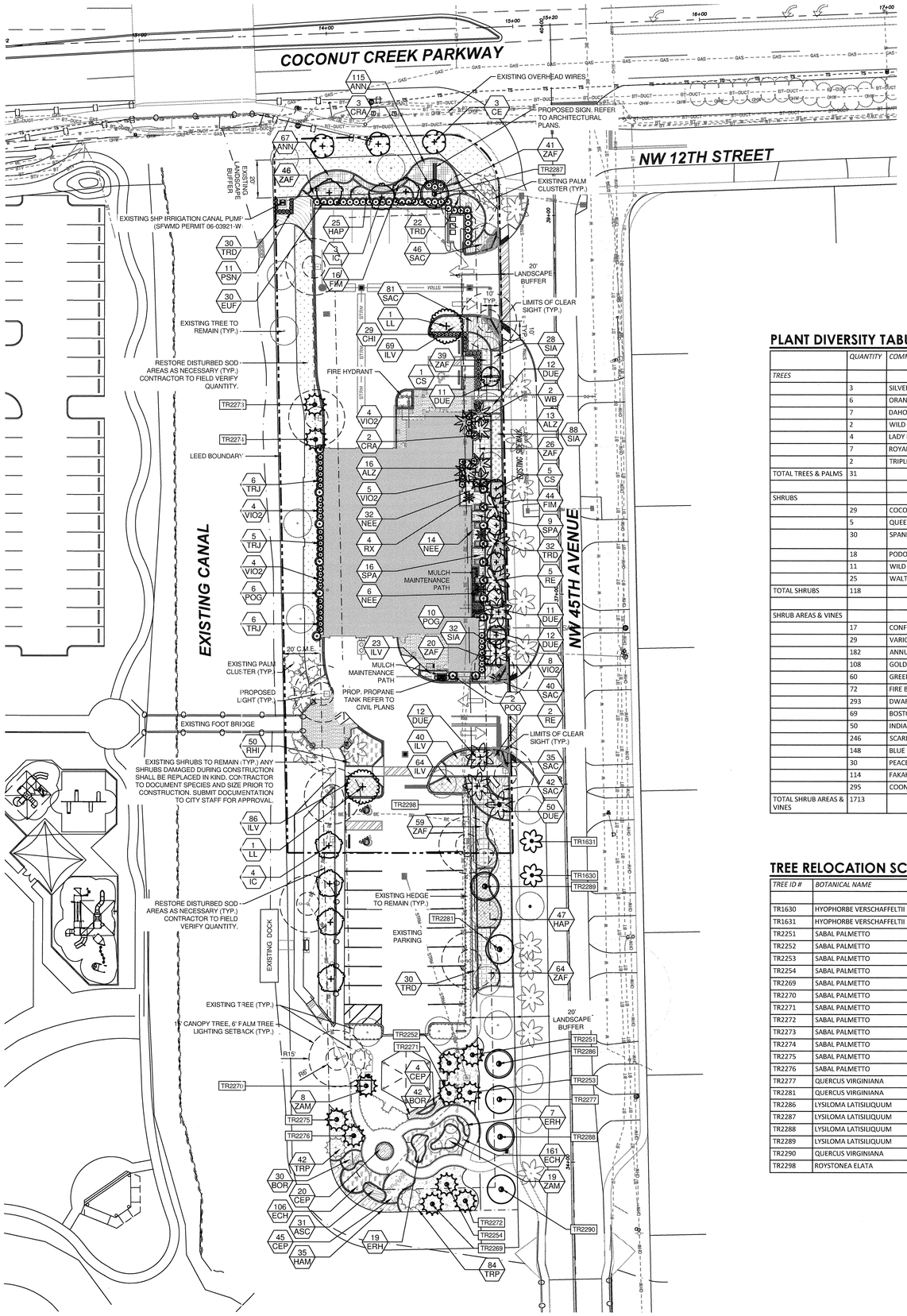
DRAWING TITLE:
TREE DISPOSITION PLAN

DRAWN	EDH
CHECKED	MSB



P:\PROJECTS\430.001 - COCONUT CREEK FIRE STATION 50\CAD\430.001_LNP.DWG 4/21/14 by EHARRISON

GRAPHIC SCALE

0 15 30 60

(IN FEET)
1 INCH = 30 FEET

PLANT DIVERSITY TABULATIONS

	QUANTITY	*COMMON NAME*	% OF TOTAL (25% MAX.)	COMMENTS
TREES				
	3	SILVER BUTTONWOOD	9.68%	
	6	ORANGE GEIGER TREE	19.35%	
	7	DAHOON HOLLY	22.58%	
	2	WILD TAMARIND	6.45%	
	4	LADY PALM	12.90%	
	7	ROYAL PALM	22.58%	
	2	TRIPLE FOXTAIL PALM	6.45%	
TOTAL TREES & PALMS	31		100.00%	
SHRUBS				
	29	COCOPLUM	24.58%	
	5	QUEEN EMMA CRINUM	4.24%	
	30	SPANISH STOPPER	25.42%	HEDGE IS EXEMPT FROM REQUIREMENT
	18	PODOCARPUS	15.25%	
	11	WILD COFFEE	9.32%	
	25	WALTER'S VIBURNUM	21.19%	
TOTAL SHRUBS	118		100.00%	
SHRUB AREAS & VINES				
	17	CONFEDERATE JASMINE	0.99%	
	29	VARIGATED SHELL GINGER	1.69%	
	182	ANNUALS	10.62%	
	108	GOLD MOUND DURANTA	6.30%	
	60	GREEN ISLAND FICUS	3.50%	
	72	FIRE BUSH	4.20%	
	293	DWARF YAUPON HOLLY	17.10%	
	69	BOSTON FERN	4.03%	
	50	INDIAN HAWTHORN	2.92%	
	246	SCARLET SAGE	14.36%	
	148	BLUE EYED GRASS	8.64%	
	30	PEACE LILY	1.75%	
	114	FAKAHATCHEE GRASS	6.65%	
	295	COONTIE	17.22%	
TOTAL SHRUB AREAS & VINES	1713		100.00%	

TREE RELOCATION SCHEDULE

TREE ID #	*BOTANICAL NAME*	*COMMON NAME*
TR1630	HYOPHORBE VERSCHAFFELTII	SPINDLE PALM
TR1631	HYOPHORBE VERSCHAFFELTII	SPINDLE PALM
TR2251	SABAL PALMETTO	CABBAGE PALM
TR2252	SABAL PALMETTO	CABBAGE PALM
TR2253	SABAL PALMETTO	CABBAGE PALM
TR2254	SABAL PALMETTO	CABBAGE PALM
TR2269	SABAL PALMETTO	CABBAGE PALM
TR2270	SABAL PALMETTO	CABBAGE PALM
TR2271	SABAL PALMETTO	CABBAGE PALM
TR2272	SABAL PALMETTO	CABBAGE PALM
TR2273	SABAL PALMETTO	CABBAGE PALM
TR2274	SABAL PALMETTO	CABBAGE PALM
TR2275	SABAL PALMETTO	CABBAGE PALM
TR2276	SABAL PALMETTO	CABBAGE PALM
TR2277	QUERCUS VIRGINIANA	LIVE OAK
TR2281	QUERCUS VIRGINIANA	LIVE OAK
TR2286	LYSILOMA LATISILIQUUM	TAMARIND
TR2287	LYSILOMA LATISILIQUUM	TAMARIND
TR2288	LYSILOMA LATISILIQUUM	TAMARIND
TR2289	LYSILOMA LATISILIQUUM	TAMARIND
TR2290	QUERCUS VIRGINIANA	LIVE OAK
TR2298	ROYSTONEA ELATA	ROYAL PALM

PLANT SCHEDULE

TREES	CODE	QTY	COMMON NAME	BOTANICAL NAME	CONT	SIZE	NATIVE	REMARKS
	CE	3	Silver Button Wood	Conocarpus erectus sericeus	B & B	12' - 14' HT, 6' SPRD, 3" CAL	Yes	Full To Base
	CS	6	Orange Geiger Tree	Cordia sebestena	B & B	12' O.A.H., 2.5" CAL.	Yes	
	IC	7	Dahoon Holly	Ilex cassine	B & B	8' HT, 3' SPRD, 1-1/2" DBH	Yes	Full To Base
	LL	2	Wild Tamarind	Lysiloma latisiliqua	B & B	14' - 16' HT, 4" CAL	Yes	
	RX	3	Lady Palm	Rhapis excelsa	7 gal	6' HT	No	
	RE	7	Florida Royal Palm	Roystonea elata	B & B	14' CT	Yes	
	WB	2	Foxtail Palm	Wodyetia bifurcata	B & B	8' - 10' GW	No	Triple Trunk

TREES 80% NATIVE

RELOCATED TREES	CODE	QTY	COMMON NAME	BOTANICAL NAME	CONT	SIZE	NATIVE	REMARKS
TREE NUMBER	HV-R	2	Spindle Palm	Hyophorbe verschaffeltii	Relocated	See Tree Disposition Plan	No	
TREE NUMBER	LL-R	4	Wild Tamarind	Lysiloma latisiliquum	Relocated	See Tree Disposition Plan	Yes	
TREE NUMBER	QV-R	3	Live Oak	Quercus virginiana	Relocated	See Tree Disposition Plan	Yes	
TREE NUMBER	RE-R	1	Florida Royal Palm	Roystonea elata	Relocated	See Tree Disposition Plan	Yes	
TREE NUMBER	SP-R	12	Cabbage Palmetto	Sabal palmetto	Relocated	See Tree Disposition Plan	Yes	

SHRUBS	CODE	QTY	COMMON NAME	BOTANICAL NAME	CONT	SIZE	NATIVE	REMARKS
	CHI	29	Red Tip Cocoplum	Chrysobalanus icaco 'Red Tip'	3 gal	24" HT, 24" SPRD	Yes	
	CRA	5	'Queen Emma' Crinum	Crinum augustum 'Queen Emma'	7 gal	3' HT, 3' SPRD	No	
	EUF	30	Spanish Stopper	Eugenia foetida	7 gal	6' OAH	Yes	
	POG	18	Podocarpus	Podocarpus gracilior 'Column'	7 gal	5' OAH	No	
	PSN	11	Wild Coffee	Psychotria nervosa	3 gal	24"x24"	Yes	
	VIO2	24	Walter's Viburnum	Viburnum obovatum	3 gal	24"x24"	Yes	

SHRUBS 80% NATIVE

VINE/ESPALIER	CODE	QTY	COMMON NAME	BOTANICAL NAME	CONT	SIZE	NATIVE	REMARKS
	TRJ	17	Confederate Jasmine	Trachelospermum jasminoides 'Confederate'	3 gal	24"x24"	No	

SHRUB AREAS	CODE	QTY	COMMON NAME	BOTANICAL NAME	CONT	SIZE	NATIVE	SPACING	REMARKS
	ALZ	29	Variegated Shell Ginger	Alpinia zerumbet 'Variegata'	3 gal	18"x18"	No	36" o.c.	
	ANN	176	Species Varies	Annuals	1 gal	10"x10"	No	18" o.c.	
	DUE	102	Gold Mound Duranta	Duranta erecta 'Gold Mound'	3 gal	18"x18"	Yes	30" o.c.	
	FIM	58	Green Island Ficus	Ficus microcarpa 'Green Island'	3 gal	18" HT, 18" SPRD	No	30" o.c.	
	HAP	72	Fire Bush	Hamelia patens	3 gal	24" HT, 24" SPRD	Yes	30" o.c.	
	ILV	282	Dwarf Yaupon Holly	Ilex vomitoria	3 gal	18" HT, 18" SPRD	Yes	18" o.c.	
	NEE	50	Boston Fern	Nephrolepis exaltata	3 gal	18" HT, 18" SPRD	Yes	24" o.c.	
	RHI	50	Indian Hawthorn	Rhaphiolepis indica	3 gal	18"x18"	No	30" o.c.	
	SAC	244	Scarlet Sage	Salvia coccinea	1 gal	9" HT, 9" SPRD	Yes	18" o.c.	
	SIA	148	Blue-eyed Grass	Sisyrinchium angustifolium	1 gal	10"x10"	Yes	18" o.c.	
	SPA	25	Peace Lily	Spathiphyllum spp.	3 gal	18"x18"	No	24" o.c.	
	TRD	114	Fakahatchee Grass	Tripsacum dactyloides	3 gal	18"x18"	Yes	36" o.c.	
	ZAF	295	Coontie Palm	Zamia floridana	3 gal	18" HT, 18" SPRD	Yes	24" o.c.	

SHRUB AREAS & VINES 76% NATIVE

BUTTERFLY GARDEN	CODE	QTY	COMMON NAME	BOTANICAL NAME	CONT	SIZE	NATIVE	SPACING	REMARKS
	ASC	31	Milk Weed	Asclepias curassavica	1 gal	10"x10"	Yes	18" o.c.	
	BOR	72	Sea Oxeye	Borrichia frutescens	1 gal	9"x9"	Yes	18" o.c.	
	CEP	69	Buttonbush	Cephalanthus occidentalis	3 gal	18"x18"	Yes	24" o.c.	
	ECH	267	Purple Coneflower	Echinacea purpurea	1 gal	10"x10"	Yes	18" o.c.	
	ERH	26	Coral Bean	Erythrina herbacea	1 gal	10"x10"	Yes	24" o.c.	
	HAM	35	Dwarf Scarlet Bush	Hamelia patens 'Compacta'	3 gal	18"x18"	Yes	30" o.c.	
	TRP	198	Fakahatchee Grass	Tripsacum dactyloides	3 gal	18"x18"	Yes	36" o.c.	
	ZAM	27	Coontie Palm	Zamia floridana	3 gal	18"x18"	Yes	30" o.c.	

BUTTERFLY AREA 100% NATIVE

GROUND COVERS	CODE	QTY	COMMON NAME	BOTANICAL NAME	CONT	SIZE	NATIVE	REMARKS
	SOD	6,826 sf	St. Augustine Grass	Stenotaphrum secundatum 'Floratam'	SOD	FULL	No	

REFER TO SHEET L2.02 FOR LANDSCAPE REQUIREMENTS, NOTES AND LANDSCAPE SPECIFICATIONS.

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NOT FOR CONSTRUCTION
CRISTOBAL BETANCOURT, RLA
REGISTRATION NO. 5660
STATE OF FLORIDA
DATE:

NO.	REVISION	DATE
	Site Plan Submittal	2-7-14
	DRC Comments	3-17-14
	50% CD Set	4-10-14
	DRC Comments #2	4-17-14

CONSULTANT:

CHEN·MOORE &ASSOCIATES
CERTIFICATES OF AUTHORIZATION EB0004593 LC26000425

PROPOSED NEW FIRE STATION 50
NW 45 AVE.
NW 45 AVE. & COCONUT CREEK PARKWAY
COCONUT CREEK, FLORIDA

CPZ ARCHITECTS, INC.
4316 WEST BROWARD BOULEVARD
PLANTATION, FLORIDA 33317
PHONE: (954) 792-8525 FAX: (954) 337-0359
AA #26000665 WWW.CPZARCHITECTS.COM

DRAWING TITLE:
LANDSCAPE PLAN

DRAWN	EDH
CHECKED	MSB
DATE	4-23-14
SCALE	AS NOTED
PROJECT NO.	1220B
SHEET:	L2.01

CITY OF COCONUT CREEK STANDARD LANDSCAPE NOTES

ALL LANDSCAPE AND SPECIFICATIONS SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS AS PROVIDED IN THE CITY OF COCONUT CREEK LAND DEVELOPMENT CODE. PLANS ARE INCOMPLETE WITHOUT WRITTEN NOTES AND SPECIFICATIONS.

1. ALL PLANTING MATERIAL SHALL MEET OR EXCEED FLORIDA GRADE #1 AS SPECIFIED IN GRADES AND STANDARDS FOR NURSERY PLANTS, CURRENT EDITION. TREES SHALL NOT BE TIPPED, TOPPED, OR SHAPED PRIOR TO INSTALLATION.
2. LANDSCAPE SHALL BE PLACED TO EDGE OF ABUTTING STREETS, CANALS, LAKES OR OTHER LANDS.
3. ALL MECHANICAL EQUIPMENT, AIR CONDITIONING, IRRIGATION PUMP STATIONS AND EQUIPMENT, FPL TRANSFORMERS, POOL PUMPS, ETC., MUST BE SCREENED ON THREE (3) SIDES BY LANDSCAPE SHRUBS.

   NOTE: THE QUANTITY OF SCREENING SHRUBS IS IN ADDITION TO THE REQUIRED NUMBER OF SHRUBS AS PROVIDED IN THE CODE CALCULATION TABLE. ALL SCREENING SHRUBS SHALL BE PLANTED FOR PROPER OPERATION OF EQUIPMENT BEING SCREENED AND/OR PER THE REQUIREMENTS OF THE UTILITY AS NECESSARY. ALL HEDGE MATERIAL REQUIRED FOR SCREENING PURPOSES SHALL BE PLANTED WITH BRANCHES TOUCHING. ADJUST ON-CENTER SPACING AS NECESSARY AND/OR PROVIDE ADDITIONAL PLANTS TO PROVIDE AN ADEQUATE SCREEN.
4. SIGHT DISTANCE CONCERNS MUST BE MAINTAINED FOR CLEAR SIGHT VISIBILITY FROM THIRTY (30) INCHES TO SEVENTY-TWO INCHES, TREE TRUNKS EXCLUDED. MEASUREMENT SHALL BE MADE FROM TOP OF ROOT BALL PLANTED AT PROPER ELEVATION.
5. GUYING/STAKING PRACTICES SHALL NOT PERMIT NAILS, SCREWS, WIRES, ETC., TO PENETRATE OUTER SURFACES OF TREES, PALMS OR OTHER PLANT MATERIAL. TREES, PALMS AND PLANT MATERIAL REJECTED DUE TO THIS PRACTICE SHALL BE REPLACED WITH THE INSPECTOR ON SITE.
6. BURLAP MATERIAL, WIRE CAGES, PLASTIC/CANVAS STRAPS, ETC., MUST BE CUT AND REMOVED FOR THE TOP ONE-HALF (1/2) DEPTH OF THE ROOT BALL. TREES AND SHRUBS GROWN IN GROW BAGS OR GROW BAG TYPE MATERIAL MUST HAVE SUCH MATERIAL REMOVED ENTIRELY PRIOR TO PLANTING THE TREE OR SHRUB.
7. ALL PLANT MATERIAL SHALL BE FREE OF PESTS, INSECTS, DISEASE, WEEDS, ETC.
8. ALL REQUIRED LANDSCAPE MATERIAL SHALL BE INSTALLED USING A PLANTING SOIL MIX COMPRISED OF A TYPE APPROPRIATE TO THE INDIVIDUAL PROPOSED PLANT MATERIAL AND THE NATIVE SOIL FOUND ON THE SITE.
9. ALL PLANT MATERIAL SHALL BE PLANTED AT THE PROPER DEPTH, AS ORIGINALLY GROWN AND/OR SO THE TOP OF THE ROOT BALL IS FLUSH OR SLIGHTLY ABOVE FINISHED GRADE IMMEDIATELY AFTER PLANTING. ALL TREES SHOULD PROVIDE TRUNK TAPER WHEN PROPERLY PLANTED AT THE CORRECT PLANTING DEPTH.
10. ALL PLANT MATERIAL SHALL BE WATERED IN AT TIME OF PLANTING TO ELIMINATE AIR POCKETS IN THE ROOT ZONE AREA.
11. COLOR-TREATED OR DYED MULCH WILL NOT BE ACCEPTED.
12. UPON COMPLETION OF WORK, THE SITE SHALL BE CLEARED OF ALL DEBRIS, SUPERFLUOUS MATERIALS, AND EQUIPMENT CAUSED BY THIS PERMIT TO THE SATISFACTION OF THE INSPECTOR.
13. REFER TO COCONUT CREEK FIRE EQUIPMENT CLEAR ZONE DIAGRAM TO MAINTAIN A SAFE ZONE FRONTING FIRE HYDRANTS.
14. DO NOT PLANT TREES, SHRUBS OR GROUNDCOVER WITHIN ELECTRIC METER CLEAR ZONE. PROVIDE A SAFE ZONE AS DESCRIBED BY THE ELECTRICAL INSPECTOR.
15. ALL LANDSCAPED AREAS SHALL BE PROVIDED WITH AN UNDERGROUND FULLY AUTOMATIC IRRIGATION SYSTEM USING POP-UP SPRINKLERS. SYSTEM SHALL PROVIDE 100% COVERAGE WITH A 50% OVERLAP (MINIMUM) USING RUST FREE WATER, EXCEPT PRESERVED AREAS REMAINING IN NATURAL STATE. A RAIN SENSOR DEVICE OR SWITCH SHALL BE INSTALLED THAT WILL OVERRIDE THE IRRIGATION SYSTEM WHEN ADEQUATE RAINFALL HAS OCCURRED. WATER SHALL NOT BE DIRECTED AND/OR PROVIDED ONTO IMPERVIOUS SURFACES AND/OR BE DESIGNED OR INSTALLED TO THROW WATER OVER AN IMPERVIOUS SURFACE SUCH AS A SIDEWALK, ETC. HOURS OF OPERATION FOR ALL IRRIGATION SYSTEMS SHALL BE LIMITED TO 5:00 P.M. TO 8:00 A.M. ONLY OR AS MAY BE FURTHER RESTRICTED BY SOUTH FLORIDA WATER MANAGEMENT DISTRICT OR OTHER JURISDICTIONAL AGENCY.
16. IRRIGATION PERMITS AND PLANS SHALL BE SUBMITTED FOR APPROVAL AT TIME OF BUILDING PERMITS.
17. ALL NON-SINGLE FAMILY OR DUPLEX IRRIGATION SYSTEMS OTHER THAN CITY WATER SYSTEMS SHALL REQUIRE A SOUTH FLORIDA WATER MANAGEMENT DISTRICT WATER USE PERMIT PRIOR TO ISSUANCE OF AN IRRIGATION PERMIT AND INSTALLATION OF THE IRRIGATION SYSTEM AS REQUIRED.
18. ALL SITE AMENITIES TO INCLUDE SITE STREET LIGHTS, LANDSCAPE COMMON OPEN SPACE, IRRIGATION COMMON OPEN SPACE, BUFFERS, BERMS, LANDSCAPE ENTRY FEATURES, ETC. LEADING UP TO AND INCLUDING THE MODEL CENTER AND/OR FIRST CERTIFICATE OF OCCUPANCY MUST BE COMPLETED AND FUNCTIONAL PRIOR TO ISSUANCE OF THE FIRST REQUESTED CERTIFICATE OF OCCUPANCY.
19. THE HEIGHT OF ALL REQUIRED, DESIGNED AND INSTALLED BERMS SHALL BE FROM THE HIGHEST ADJACENT POINT WHETHER IT IS THE SIDEWALK, PARKING AREA, VEHICULAR USE AREA, SURROUNDING GROUND, ETC. WHERE A BERM ABUTS A SIDEWALK, THERE SHALL BE A ONE (1) FOOT LEVEL SOD AREA ADJACENT TO THE SIDEWALK PRIOR TO THE START OF INCLINE FOR THE BERM.
20. AN INSPECTION IS REQUIRED PRIOR TO THE BACKFILLING OF TREES/PALMS IN ALL PARKING MEDIANS AND ISLANDS.

GENERAL NOTES

1. THE LOCATIONS OF PLANTS AS SHOWN ON THESE PLANS, ARE APPROXIMATE. THE FINAL LOCATIONS MAY BE ADJUSTED TO ACCOMMODATE UNFORESEEN FIELD CONDITIONS, TO COMPLY WITH SAFETY SETBACKS, OR AS OTHERWISE DIRECTED/APPROVED BY THE LANDSCAPE ARCHITECT. FLAG PROPOSED TREE AND PLANT BED LOCATIONS TO THE EXTENT REQUESTED BY THE LANDSCAPE ARCHITECT PRIOR TO PLANTING FOR APPROVAL.
2. VERIFY ABOVE AND BELOW GROUND UTILITIES PRIOR TO COMMENCING WORK IN THE PROJECT AREA. IF UTILITY CONFLICTS ARE DISCOVERED, NOTIFY THE ENGINEER AND LANDSCAPE ARCHITECT IMMEDIATELY. IN THE CASE OF UTILITY CONFLICTS, THE LANDSCAPE WILL BE ADJUSTED, DO NOT ADJUST THE UTILITY. NOTIFY UTILITY OWNERS AND SUNSHINE STATE ONE CALL OF FLORIDA, INC (811)TWO FULL WORKING DAYS IN PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
3. THE IRRIGATION SYSTEM MAY NOT BE COMPLETELY OPERATIONAL, OR MAY NOT PROVIDE ADEQUATE WATER TO ESTABLISH NEW PLANTINGS. THEREFORE HAND WATERING IS REQUIRED, UNTIL THE IRRIGATION IS FULL OPERATIONAL. CONTRACTOR SHALL DETERMINE WATERING SCHEDULE AND RATE TO ENSURE THE HEALTHY ESTABLISHMENT OF PLANTS. PLANTS THAT DIE OR EXCESSIVELY SHOCK DUE TO LACK OF WATER MUST BE REPLACED, AT NO COST TO THE OWNER. IF A WATER TRUCK IS UTILIZED DURING THE ESTABLISHMENT PERIOD, THE PRESSURE FROM THE WATERING TRUCK SHALL BE ADJUSTED SO THAT WATER PRESSURE IS NOT APPLIED IN A MANNER WHICH WOULD DAMAGE PLANTS, SOIL SAUCER RING OR MULCH AROUND EACH PLANT. REPAIR OR REPLACE PLANTS OR OTHER SURROUNDING ITEMS WHICH ARE DAMAGED EITHER BY WATER PRESSURE OR THE WATER TRUCK.
4. ALL PLANTS WILL RECEIVE A PREMIXED, DRY GRANULAR FUNGI INOCULATE COMPOUND CONSISTING OF ENDO AND ECTOMYCORRHIZAL FUNGI, BENEFICIAL BACTERIA TRICHODERMA, ORGANIC MICROBIAL NUTRIENTS AND A HORTICULTURAL GRADE GEL THAT IS MIXED IN THE BACKFILL AT PLANTING. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR APPLICATION METHODS AND RATES. PROVIDE SATISFACTORY EVIDENCE TO THE LANDSCAPE ARCHITECT THAT THESE SOIL AMENDMENTS HAVE BEEN PURCHASED AND UTILIZED PRIOR TO PROCEEDING WITH PLANT INSTALLATION.
5. ENSURE THAT PAVEMENT, STONES, ROAD BASE OR OTHER UNSUITABLE MATERIAL OVER ½ IS REMOVED FROM PLANTING AREAS.THIS PROJECT CONTAINS BOTH PROPOSED AND EXISTING PLANTING CONDITIONS. ALL AREAS TO RECEIVE NEW OR RELOCATED PLANT MATERIAL AS SHOWN ON THE LANDSCAPE PLAN SHALL BE EXCAVATED OF UNSUITABLE PLANTING MATERIAL, MINIMUM DEPTH OF 30" OR TO NATIVE SOIL, WHICHEVER IS GREATER. IMPORT AND FILL PLANTING AREAS WITH PLANTING SOIL AS SPECIFIED ON PLANS.

LANDSCAPE CODE REQUIREMENTS

CODE APPLICATION	#	REQUIRED	PROVIDED	EXISTING	RELOCATED	PROPOSED	TREE VALADATION/LOCATION
SEC. 13-443 (4) OPEN PLOT AREA							
1 TREE PER 1000 SF	30,675	31	31	12	10	9	EX. TREES (1) FICUS, (4) OAK, 3 ROYAL PALMS, 2 * SABAL CLUSTERS - RELCOATED TREES: (1) ROYAL PALM, (1) OAK (4 SABAL PALM CLUSTERS, (4)TAMARIND - PROPOSED TREES: (7 DAHOON HOLLY, (2) TRIPLE FOX TAIL PALMS, (1) ROYAL PALM, (1) TAMARIND)
5 SHRUBS PER 1000 SF		154	154				
SEC. 13-443 (6) COMMERCIAL ABUTTING RESIDENTIAL							
3 TREES PER 100 LF	563	17	17	4	2	11	EX. TREES (1) OAK, (1) ORANGE GEIGER, (1) BLACK OLIVE, (1) *SABAL PALM CLUSTER - RELOCATED TREES: (2) OAKS - PROPOSED TREES: (6) ROYAL PALMS, (5) ORANGE GEIGER
CONTINUOUS HEDGE		CONTINUOUS HEDGE	CONTINUOUS HEDGE	X	X	CONTINUOUS HEDGE	
SEC. 13-443 (7)(E) LANDSCAPE BETWEEN BUILDINGS AND VUA							
1 TREE PER 40 LF OF GREEN SPACE	40	1	1			1	PROPOSED TREES: (1) ROYAL PALM
20 SHRUBS PER 40 LF OF GREEN SPACE		20	20	X	X		
30 GROUNDCOVERS PLANTS PER 40 LF OF GREEN SPACE		30	30	X	X		
SEC. 13-443 (12) INTERIOR LANDSCAPE FOR VUA							
1 TREE PER 10 PARKING SPACES	31	4	4	3		1	EX. TREES: (3)TAMARIND - PROPOSED TREES (1) TAMARIND
1 SF LANDSCAPE AREA PER 100 SF VUA	21,460	215	215	X	X		
SEC. 13-443 (13) STREET TREES							
COCONUT CREEK PARKWAY 1 TREE PER 40 LF OF STREET FRONTAGE	118	3	3	0	0	3	(3) ROYAL PALM TREES
NW 45TH AVENUE 1 TREE PER 40 LF OF STREET FRONTAGE	563	15	18	16	2		EX. TREES: (11)SPINDLE PALMS, (2) BLACK OLIVE, (2) CASSIA, (1) ROYAL PALM - RELOCATED TREES: (2) SPINDLE PALMS
SEC. 13-443 (15) A) ROADWAY LANDSCAPE BUFFER WIDTH							
COCONUT CREEK PARKWAY	70'	20'	20'				
NW 45TH AVENUE	115'	20'	VARIES**: 14.5' - 20'				
SEC. 13-443 (15)(C)(2) & (5) ROADWAY LANDSCAPE BUFFER							
COCONUT CREEK PARKWAY 1 TREE PER 2000 SF OF BUFFER	1,991	1	1	1			EX. TREES: (1) TAMARIND
40 SHRUBS PER 2000 SF OF BUFFER		40		X	X		
NW 45TH AVENUE 1 TREE PER 2000 SF OF BUFFER	11,119	6	6	6			EX. TREES: (4) OAKS, (2) ORANGE GEIGER
40 SHRUBS PER 2000 SF OF BUFFER		223	223	X	X		
TOTAL TREES		78	81	42	14	25	
TOTAL SHRUBS		682	642	X	X	0	

* SABAL PALM CLUSTER = 3 INDIVIDUAL SABAL PALM TREES
** APPLICANT HAS APPLIED FOR A VARIANCE WITH REGARDS TO THE REQUIRED BUFFER WIDTH ALONG NW 45THAVENUE.

LANDSCAPE SPECIFICATIONS

1. PLANT MATERIAL: ALL PLANT MATERIAL SHALL BE FLORIDA #1 OR BETTER AS ESTABLISHED BY "GRADES AND STANDARDS FOR NURSERY PLANTS" OF THE STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE.
2. ALL TREES, SHRUBS AND GROUNDCOVERS SHALL BE OF THE SIZES AS SPECIFIED IN THE PLANT LIST.
3. QUANTITIES LISTED ON THE PLANT LIST ARE FOR ESTIMATING PURPOSES. CONTRACTOR SHALL VERIFY ALL QUANTITIES. MULCH, TOPSOIL, FERTILIZER, ETC. SHALL BE INCLUDED IN THE UNIT COST OF THE PLANTS.
4. WHERE THERE IS A DISCREPANCY EITHER IN QUANTITIES, PLANT NAMES, SIZES OR SPECIFICATIONS BETWEEN THE PLAN OR PLANT LIST, THE PLAN TAKES PRECEDENCE.
5. THE PLANTING PLAN SHALL BE INSTALLED IN COMPLIANCE WITH ALL EXISTING CODES AND APPLICABLE DEED RESTRICTIONS.
6. CONTRACTOR IS RESPONSIBLE FOR DETERMINING ALL UTILITY LOCATIONS AND INSTALLING FACILITIES SO AS TO NOT CONFLICT. ALL DAMAGE TO EXISTING UTILITIES OR IMPROVEMENTS CAUSED BY CONTRACTOR SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
7. CONTRACTOR TO NOTIFY "SUNSHINE STATE ONE CALL OF FLORIDA, INC." AT 1-800-432-4770 TWO FULL BUSINESS DAYS PRIOR TO DIGGING FOR UNDERGROUND UTILITY LOCATIONS.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FINAL GRADING OF ALL ASSOCIATED PLANTING AREAS.
9. AFTER FINAL GRADE, AREA TO BE RAKED TO 6" DEPTH AND ALL ROCK AND FOREIGN INORGANIC MATERIALS REMOVED AND DISPOSED OF PROPERLY OFF-SITE.
10. ALL PLANTING HOLES TO BE HAND DUG EXCEPT WHERE MACHINE DUG HOLES WILL NOT ADVERSELY AFFECT OR DAMAGE UTILITIES OR IMPROVEMENTS.
11. NO PLUNGING OF ANY TREE OR PALM WILL BE ACCEPTED. ALL PLANTS TO BE PLANTED AT THE NURSERY GRADE OR SLIGHTLY HIGHER.
12. CONTRACTOR SHALL STAKE & GUY ALL TREES AND PALMS AT TIME OF PLANTING AS PER THE APPROPRIATE DETAIL. CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE AND/OR REPAIR OF ALL STAKING AND GUYING DURING WARRANTY PERIOD AND REMOVAL & DISPOSAL OF STAKING AFTER ESTABLISHMENT PERIOD.
13. SOD: ALL AREAS NOT USED FOR BUILDINGS, VEHICULAR USE AREAS, WALKS OR PLANTING BEDS SHALL BE GRASSED. GRASSING SHALL EXTEND TO ANY ABUTTING STREET PAVEMENT EDGE AND TO THE MEAN WATERLINE OF ANY ABUTTING CANAL, LAKE OR WATERWAY. SOD WITHIN BALLFIELDS SHALL BE CYNODON DACTYLON `CELEBRATION` (CELEBRATION BERMUDA GRASS). ALL OTHER SOD AREAS SHALL BE PASPALUM NOTATUM (BAHIA GRASS).
14. PLANTING SOIL: ALL TREES AND SHRUBS SHALL BE PLANTED WITH A MINIMUM OF 12" TOPSOIL AROUND AND BENEATH THE ROOTBALL. MINIMUM TOPSOIL SHALL BE 4" FOR SODDED GRASS AREAS.
15. PLANTING SOIL TO BE A WEED-FREE MIXTURE OF 50% SAND, 40% MUCK, AND 10% CANADIAN PEAT.
16. MULCH: A CONSISTENT 3" LAYER OF STERILZED MALELEUCA, EUCALYPTUS OR FLORIMULCH GRADE 'B' OR BETTER. MULCH SHALL BE SPREAD OVER ALL PLANTING BEDS. CYPRESS OR TREATED RED MULCH SHALL NOT ACCEPTED. CONTRACTOR TO SUBMIT SAMPLE OF MULCH TO LANDSCAPE ARCHITECT FOR FINAL ACCEPTANCE.
17. ALL PLANTING BEDS AND WATER BASINS FOR TREES SHALL BE COVERED WITH A 3" MINIMUM DEPTH OF MULCH.
18. FERTILIZATION: 12-4-12 FERTILIZER SHALL BE APPLIED TO ALL TREES, SHRUBS AND GROUNDCOVERS. THE APPLICATION RATE SHALL BE ONE POUND OF NITROGEN PER 1,000 S.F. AND THE FERTILIZER SHALL BE BROADCAST PER MANUFACTURER'S RECOMMENDATIONS. 12-4-12 COMPLETE FERTILIZER, WITH MICOR-NUTIRENTS AND LOW PHOSPHORUS SHALL BE APPLIED TO PALMS OVER 8' IN HEIGHT AT A RATE OF 6 POUNDS PER TREE. PALMS UNDER 8' IN HEIGHT SHALL RECEIVE THE SAME FERTILIZER AT 2-5 POUNDS PER TREE.
19. SUBSTITUTIONS AND CHANGES: ALL SUBSTITUTIONS AND CHANGES SHALL BE APPROVED IN WRITING PRIOR TO INSTALLATION. ANY DISCREPANCIES BETWEEN PLANS, SITE AND SPECIFICATIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE LANDSCAPE ARCHITECT, THE OWNER AND GOVERNING MUNICIPALITY.
20. WATERING: ALL PLANT MATERIAL SHALL BE WATERED IN AT TIME OF PLANTING IN ACCORDANCE WITH STANDARD NURSERY PRACTICES. IN ADDITION, CONTRACTOR WILL CONTINUE WATERING OF PLANT MATERIAL UNTIL SUBSTANTIAL COMPLETION AND AS NEEDED THEREAFTER FOR A PERIOD OF 3 MONTHS.
21. WARRANTY: ALL NEW PLANT MATERIAL SHALL BE GUARANTEED FOR 1 YEAR FROM TIME OF FINAL ACCEPTANCE OF PROJECT. ANY PLANT MATERIAL NOT IN A HEALTHY GROWING CONDITION WILL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER WITHIN 10 DAYS OF NOTIFICATION. FOR ALL REPLACEMENT PLANT MATERIAL, THE WARRANTY PERIOD SHALL BE EXTENDED AN ADDITIONAL 45 DAYS BEYOND THE ORIGINAL WARRANTY PERIOD. ALL TREES THAT LEAN OR ARE BLOWN OVER, CAUSED BY WINDS LESS THAN 75 MPH, WILL BE RE-SET AND BRACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
22. THE SUCCESSFUL BIDDER SHALL FURNISH TO THE OWNER A UNIT PRICE BREAKDOWN FOR ALL MATERIALS. THE OWNER MAY, AT ITS DISCRETION, ADD OR DELETE FROM THE MATERIALS UTILIZING THE UNIT PRICE BREAKDOWN SUBMITTED.
23. NO PLANT MATERIAL WILL BE ACCEPTED SHOWING EVIDENCE OF CABLE, CHAIN MARKS, EQUIPMENT SCARS, OR OTHERWISE DAMAGED.
24. PLANT MATERIAL WILL NOT BE ACCEPTED WHEN THE BALL OF EARTH SURROUNDING ITS ROOTS HAS BEEN CRACKED, BROKEN OR OTHERWISE DAMAGED.
25. ROOT-PRUNE ALL TREES A MINIMUM OF (8) WEEKS PRIOR TO PLANTING.
26. ALL PLANT MATERIAL PLANTED WITHIN THE SIGHT DISTANCE TRIANGLE AREAS SHALL PROVIDE UNOBSTRUCTED CROSS-VISIBILITY AT A HORIZONTAL LEVEL BETWEEN 30 INCHES AND 8 FEET ABOVE ADJACENT STREET GRADE.
27. NO CANOPY TREES SHALL BE PLANTED WITHIN 15 FEET OF A LIGHT POLE. NO PALM SPECIES SHALL BE PLANTED WITHIN 6 FEET OF A LIGHT POLE.
28. GROUND COVER PLANTINGS SHALL PROVIDE NOT LESS THAN 50 PERCENT COVERAGE IMMEDIATELY UPON PLANTING AND 100 PERCENT COVERAGE WITHIN 6 MONTHS AFTER PLANTING.
29. TREE PROTECTION BARRICADES SHALL BE PROVIDED BY LANDSCAPE CONTRACTOR AROUND EXISTING TREES THAT MAY BE IMPACTED BY THE PROPOSED CONSTRUCTION. PRIOR TO ANY CONSTRUCTION A TREE PROTECTION BARRICADE INSPECTION SHALL BE CONDUCTED BY THE LANDSCAPE ARCHITECT, OWNER OR GOVERNING MUNICIPALITY. REFER TO LANDSCAPE DETAIL FOR TREE PRESERVATION BARRICADE FENCING THE PRIMARY CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF THE TREE PRESERVATION BARRICADES. IN ADDITION THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE CITY FORESTER PRIOR TO ANY ON-SITE WORK INCLUDING TREE RELOCATIONS/REMOVALS.
30. IN ALL PEDESTRIAN AREAS, ALL TREES AND PALMS SHALL BE MAINTAINED TO ALLOW FOR CLEAR PASSAGE AT AN 8 FOOT CLEAR TRUNK.
31. ALL LANDSCAPE MATERIAL SHALL BE SETBACK A MINIMUM OF 10' FROM ANY FIRE HYDRANT.
32. LARGE TREES INSTALLED WITHIN 8' OF HARDSCAPE AREAS OR UTILITIES SHALL REQUIRE A ROOT BARRIER TO PROTECT ADJACENT PAVED AREAS. CONTRACTOR TO SUBMIT PRODUCT CUT SHEETS FOR APPROVAL.

NOT FOR CONSTRUCTION
CRISTOBAL BETANCOURT, RLA
FL REGISTRATION NO. 6676981
STATE OF FLORIDA
DATE:

NO.	REVISION	DATE
	Site Plan Submittal	2-7-14
	DRC Comments	3-17-14
	50% CD Set	4-10-14
	DRC Comments #2	4-17-14

CONSULTANT:

CHEN·MOORE &ASSOCIATES
CERTIFICATES OF AUTHORIZATION EB0004593 LC26000425

PROPOSED NEW FIRE STATION 50
NW 45 AVE.
NW 45 AVE. & COCONUT CREEK PARKWAY
COCONUT CREEK, FLORIDA

CPZ ARCHITECTS, INC.
4316 WEST BROWARD BOULEVARD
PLANTATION, FLORIDA 33317
PHONE: (954) 792-8525 FAX: (954) 337-0359
AA #26000065 WWW.CPZARCHITECTS.COM

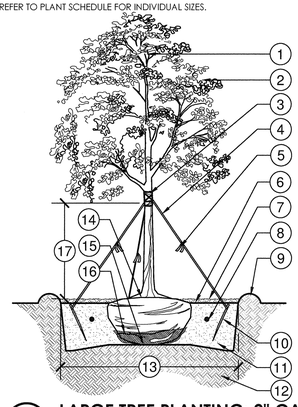
DRAWING TITLE:
LANDSCAPE DETAILS

DRAWN	EDH
CHECKED	MSB
DATE	4-23-14
SCALE	AS NOTED
PROJECT NO.	1220B
SHEET:	L2.02

P:\PROJECTS\430.001 - COCONUT CREEK FIRE STATION 50\CAD\430.001_LNP.DWG 4/21/14 by EHARRISON

CALIPER MEASUREMENTS NOTES:
1. CALIPER MEASUREMENT IS 6" FROM TOP OF ROOT BALL FOR TREES WITH 6" CALIPER OR LESS.
2. CALIPER MEASUREMENT IS12" FROM TOP OF ROOT BALL FOR TREES WITH 6" CALIPER GREATER.

REFER TO PLANT SCHEDULE FOR INDIVIDUAL SIZES.



1. DO NOT PRUNE CENTRAL LEADER
2. PRUNE DAMAGED OR DEAD WOOD IMMEDIATELY PRIOR TO PLANTING USING ACCEPTABLE NURSERY PRACTICES OR AS DIRECTED BY THE LANDSCAPE ARCHITECT
3. PROTECT TRUNK WITH 3 LAYERS OF BURLAP MINIMUM
4. 1" WIDE MIN. NYLON STRAPPING AT EQUAL SPACING (3 PER TREE) GUY WIRES SHALL NOT TO BE USED
5. FLUORESCENT MARKING FLAG
6. FINISH GRADE
7. 3" LAYER OF SPECIFIED MULCH: DO NOT INSTALL WITHIN 3" OF TREE TRUNK
8. FERTILIZER TABLET IF APPLICABLE
9. CONSTRUCT TEMPORARY 3" WATERING BASIN.
10. 2"X4"X8" STAKE: SET 2" BELOW FINISH GRADE
11. SPECIFIED SOIL MIX
12. EXISTING SOIL
13. 2X DIAMETER OF THE ROOTBALL
14. SET CROWN OF ROOT BALL SLIGHTLY ABOVE SURROUNDING FINISH GRADE. REMOVE TOP 2/3 OF BURLAP FROM ROOTBALL. TRUNK TAPER SHALL BE VISIBLE AT TIME OF INSTALLATION
15. SET ROOTBALL ON UNDISTURBED SOIL
16. REMOVE TOP 2/3 OF BURLAP/WIRE BASKET FROM ROOTBALL
17. CLEAR TRUNK: REFER TO PLANT SCHEDULE

1 LARGE TREE PLANTING: 2" CALIPER AND GREATER

1/4" = 1'-0" 329343-17

CALIPER MEASUREMENTS NOTES:
1. CALIPER MEASUREMENT IS 6" FROM TOP OF ROOT BALL FOR TREES WITH 6" CALIPER OR LESS.
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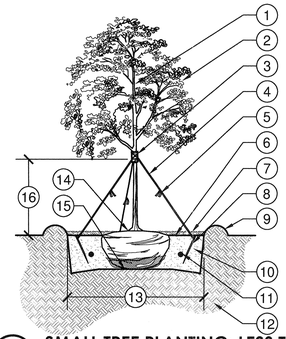

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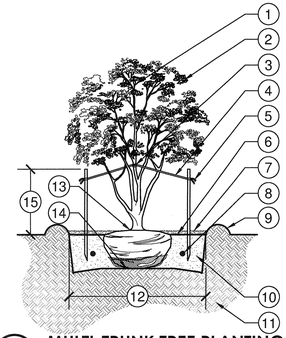
3. PROTECT TRUNK WITH 3 LAYERS OF BURLAP MINIMUM
4. 1" WIDE MIN. NYLON STRAPPING AT EQUAL SPACING (3 PER TREE) GUY WIRES SHALL NOT TO BE USED
5. 1/2"X2' FLUORESCENT MARKER
6. FINISH GRADE
7. 3" LAYER OF SPECIFIED MULCH: DO NOT INSTALL WITHIN 3" OF TREE TRUNK
8. 2"X4"X8" STAKE: SET 2" BELOW FINISH GRADE
9. CONSTRUCT TEMPORARY 3" WATERING BASIN
10. BACKFILL WITH SPECIFIED SOIL MIX
11. FERTILIZER TABLET IF APPLICABLE
12. EXISTING SOIL
13. 2X DIAMETER OF THE ROOTBALL
14. SET CROWN OF ROOT BALL SLIGHTLY ABOVE SURROUNDING FINISH GRADE. REMOVE TOP 2/3 OF BURLAP FROM ROOTBALL: TRUNK TAPER SHALL BE VISIBLE AT TIME OF INSTALLATION
15. SET ROOTBALL ON UNDISTURBED SOIL
16. CLEAR TRUNK: REFER TO PLANT SCHEDULE

2 SMALL TREE PLANTING: LESS THAN 2" CALIPER

1/4" = 1'-0" 329343-18

CALIPER MEASUREMENTS NOTES:
1. CALIPER MEASUREMENT IS 6" FROM TOP OF ROOT BALL FOR TREES WITH 6" CALIPER OR LESS.
2. CALIPER MEASUREMENT IS12" FROM TOP OF ROOT BALL FOR TREES WITH 6" CALIPER GREATER.

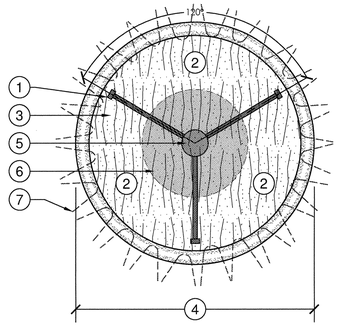
REFER TO PLANT SCHEDULE FOR INDIVIDUAL SIZES.



1. DO NOT PRUNE CENTRAL LEADER
2. PRUNE DAMAGED OR DEAD WOOD IMMEDIATELY PRIOR TO PLANTING USING ACCEPTABLE NURSERY PRACTICES OR AS DIRECTED BY THE LANDSCAPE ARCHITECT
3. PROTECT TRUNK WITH 3 LAYERS OF BURLAP MINIMUM
4. 1" WIDE MIN. NYLON STRAPPING AT EQUAL SPACING (3 PER TREE) GUY WIRES SHALL NOT TO BE USED
5. 1/2"X2' FLUORESCENT MARKER
6. FINISH GRADE
7. 3" LAYER OF SPECIFIED MULCH. DO NOT INSTALL WITHIN 3" OF TREE TRUNK
8. FERTILIZER TABLET IF APPLICABLE
9. CONSTRUCT TEMPORARY 3" WATERING BASIN
10. BACKFILL WITH SPECIFIED SOIL MIX
11. EXISTING SOIL
12. 2X DIAMETER OF THE ROOTBALL
13. SET CROWN OF ROOT BALL SLIGHTLY ABOVE SURROUNDING FINISH GRADE. REMOVE TOP 2/3 OF BURLAP FROM ROOTBALL: TRUNK TAPER SHALL BE VISIBLE AT TIME OF INSTALLATION
14. SET ROOTBALL ON UNDISTURBED SOIL
15. CLEAR TRUNK: REFER TO PLANT SCHEDULE

3 MULTI-TRUNK TREE PLANTING

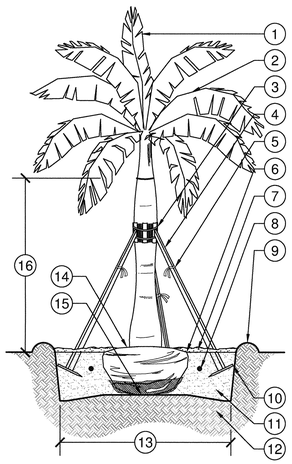
1/4" = 1'-0" 329343-19



1. 2"x4" WOOD BRACE AT EQUAL SPACING (3 PER TREE)
2. 3" LAYER OF SPECIFIED MULCH: DO NOT INSTALL WITHIN 3" OF TREE TRUNK
3. CONSTRUCT TEMPORARY 3" WATERING BASIN
4. 2x DIAMETER OF THE ROOTBALL.
5. TREE TRUNK
6. ROOTBALL
7. TREE CANOPY

4 LARGE TREE STAKING DETAIL

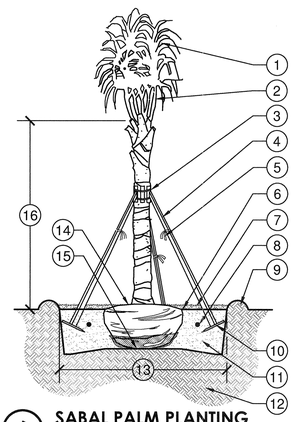
3/8" = 1'-0" 329343-22



1. TERMINAL BUD/FROND.
2. UNTIE FRONDS PRIOR TO INSPECTION.
3. METAL STRAPS SECURING 2"x4" WOOD BATTENS, MIN. 5 LAYERS BURLAP. TOE NAIL BRACES TO 2"X4" WOOD BATTENS. DO NOT NAIL STAKES DIRECTLY TO TRUNK.
4. 2"x4" WOOD BRACE AT EQUAL SPACING (3 PER TREE).
5. 1/2"x2' FLUORESCENT MARKER.
6. FINISH GRADE.
7. 3" LAYER OF SPECIFIED MULCH. DO NOT INSTALL WITHIN 3" OF TREE TRUNK.
8. FERTILIZER TABLET IF APPLICABLE.
9. CONSTRUCT TEMPORARY 3" WATERING BASIN.
10. 2"X4"X8" STAKE. SET 2" BELOW FINISH GRADE.
11. BACKFILL WITH SPECIFIED SOIL MIX.
12. EXISTING SOIL.
13. 2x DIAMETER OF THE ROOTBALL
14. SET CROWN OF ROOT BALL 0"-2" ABOVE SURROUNDING FINISH GRADE. REMOVE TOP 2/3 OF BURLAP FROM ROOTBALL. TRUNK TAPER SHALL BE VISIBLE AT TIME OF INSTALLATION.
15. SET ROOTBALL ON UNDISTURBED SOIL.
16. CLEAR TRUNK/GRAY WOOD. REFER TO PLANT SCHEDULE

5 LARGE PALM PLANTING DETAIL

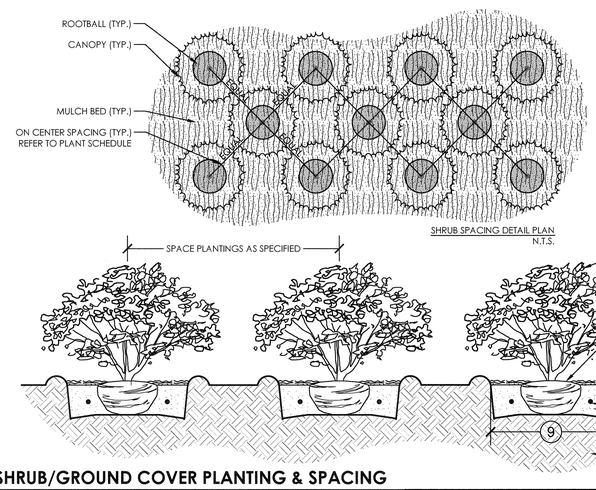
1/4" = 1'-0" 329343-25



1. DO NOT HURRICANE CUT FRONDS
2. UNITE FRONDS PRIOR TO INSPECTION
3. METAL STRAPS SECURING 2"x4" WOOD BATTENS, MIN. 5 LAYERS BURLAP. TOE NAIL BRACES TO 2"X4" WOOD BATTENS: DO NOT NAIL STAKES DIRECTLY TO TRUNK
4. 2"x4" WOOD BRACE AT EQUAL SPACING (3 PER TREE)
5. 1/2"x2' FLUORESCENT MARKER
6. FINISH GRADE
7. 3" LAYER OF SPECIFIED MULCH: DO NOT INSTALL WITHIN 3" OF TREE TRUNK
8. FERTILIZER TABLET IF APPLICABLE
9. CONSTRUCT TEMPORARY 3" WATERING BASIN
10. 2"X4"X8" STAKE: SET 2" BELOW FINISH GRADE
11. BACKFILL WITH SPECIFIED SOIL MIX
12. EXISTING SOIL
13. 2x DIAMETER OF THE ROOTBALL
14. SET CROWN OF ROOT BALL 0"-2" ABOVE SURROUNDING FINISH GRADE. REMOVE TOP 2/3 OF BURLAP FROM ROOTBALL: TRUNK TAPER SHALL BE VISIBLE AT TIME OF INSTALLATION
15. SET ROOTBALL ON UNDISTURBED SOIL
16. CLEAR TRUNK: REFER TO PLANT SCHEDULE

6 SABAL PALM PLANTING

1/4" = 1'-0" 329343-21

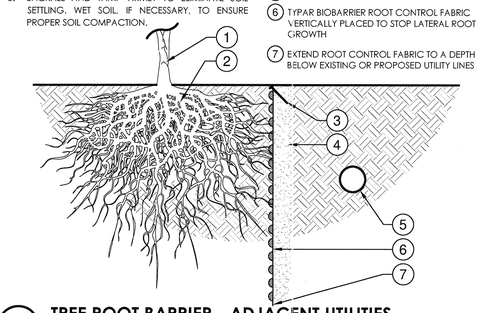


1. PLANT MATERIAL SHALL NOT BE PRUNED PRIOR TO INSTALLATION: AFTER PLANTS HAVE BEEN INSTALLED, EACH PLANT SHALL BE PRUNED FOR UNIFORMITY
2. SET CROWN OF ROOT SLIGHTLY ABOVE SURROUNDING FINISH GRADE: TRUNK TAPER SHALL BE VISIBLE AT TIME OF INSTALLATION
3. 3" LAYER OF SPECIFIED MULCH: DO NOT INSTALL WITHIN 3" OF TREE TRUNK
4. CONSTRUCT TEMPORARY 3" WATERING BASIN
5. FINISH GRADE
6. FERTILIZER TABLET IF APPLICABLE.
7. BACKFILL WITH SPECIFIED SOIL MIX
8. EXISTING SOIL
9. 2x DIAMETER OF THE ROOTBALL

7 SHRUB/GROUND COVER PLANTING & SPACING

1" = 1'-0" 329333-08

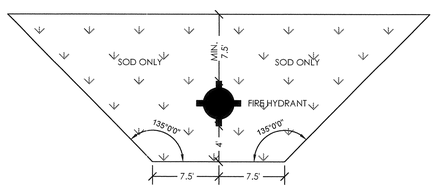
INSTALLATION NOTES
1. CONTACT UTILITY COMPANY AND ENSURE UTILITY LINES ARE PROPERLY LOCATED PRIOR TO DIGGING OR TRENCHING.
2. FOR EXISTING TREES, CONSULT A PROFESSIONAL ARBORIST IF ROOT TRIMMING IS REQUIRED.
3. INSTALL & COVER BIOBARRIER WITHIN 12 HOURS AFTER OPENING. HIGH TEMPERATURES AND DIRECT SUNLIGHT CAN REDUCE EFFECTIVE PRODUCT LIFE.
4. INSTALL TYPAR BIOBARRIER ROOT CONTROL FABRIC WITH NODULES FACING TOWARD ROOT SOURCE.
5. BACKFILL AND TAMP FIRMLY TO ELIMINATE SOIL SETTLING. WET SOIL, IF NECESSARY, TO ENSURE PROPER SOIL COMPACTION.



1. PROPOSED OR EXISTING TREE
2. FUTURE OR EXISTING ROOT STRUCTURE
3. SECURE FABRIC EVERY 2'-0" WITHIN 1/4" OF TOP EDGE
4. EXCAVATE TRENCHES A MINIMUM OF 4" WIDE; TRENCHES MUST BE A MINIMUM LENGTH OF MATURE PLANT CANOPY PLUS 10 FEET, CENTERED ON THE ROOT SOURCE AND ADJACENT TO PROTECTION AREA
5. PROPOSED OR EXISTING UTILITIES
6. TYPAR BIOBARRIER ROOT CONTROL FABRIC VERTICALLY PLACED TO STOP LATERAL ROOT GROWTH
7. EXTEND ROOT CONTROL FABRIC TO A DEPTH BELOW EXISTING OR PROPOSED UTILITY LINES

8 TREE ROOT BARRIER - ADJACENT UTILITIES

3/4" = 1'-0" 329413.23-01



9 COCONUT CREEK FIRE HYDRANT CLEAR ZONE DETAIL

N.T.S.

NO.	REVISION	DATE
	Site Plan Submittal	2–7–14
	DRC Comments	3–17–14
	50% CD Set	4–10–14
	DRC Comments #2	4–17–14

CONSULTANT:

CHEN·MOORE &ASSOCIATES
CERTIFICATES OF AUTHORIZATION
EB0004593 LC26000425

PROPOSED NEW FIRE STATION 50
NW 45 AVE.
NW 45 AVE. & COCONUT CREEK PARKWAY
COCONUT CREEK, FLORIDA

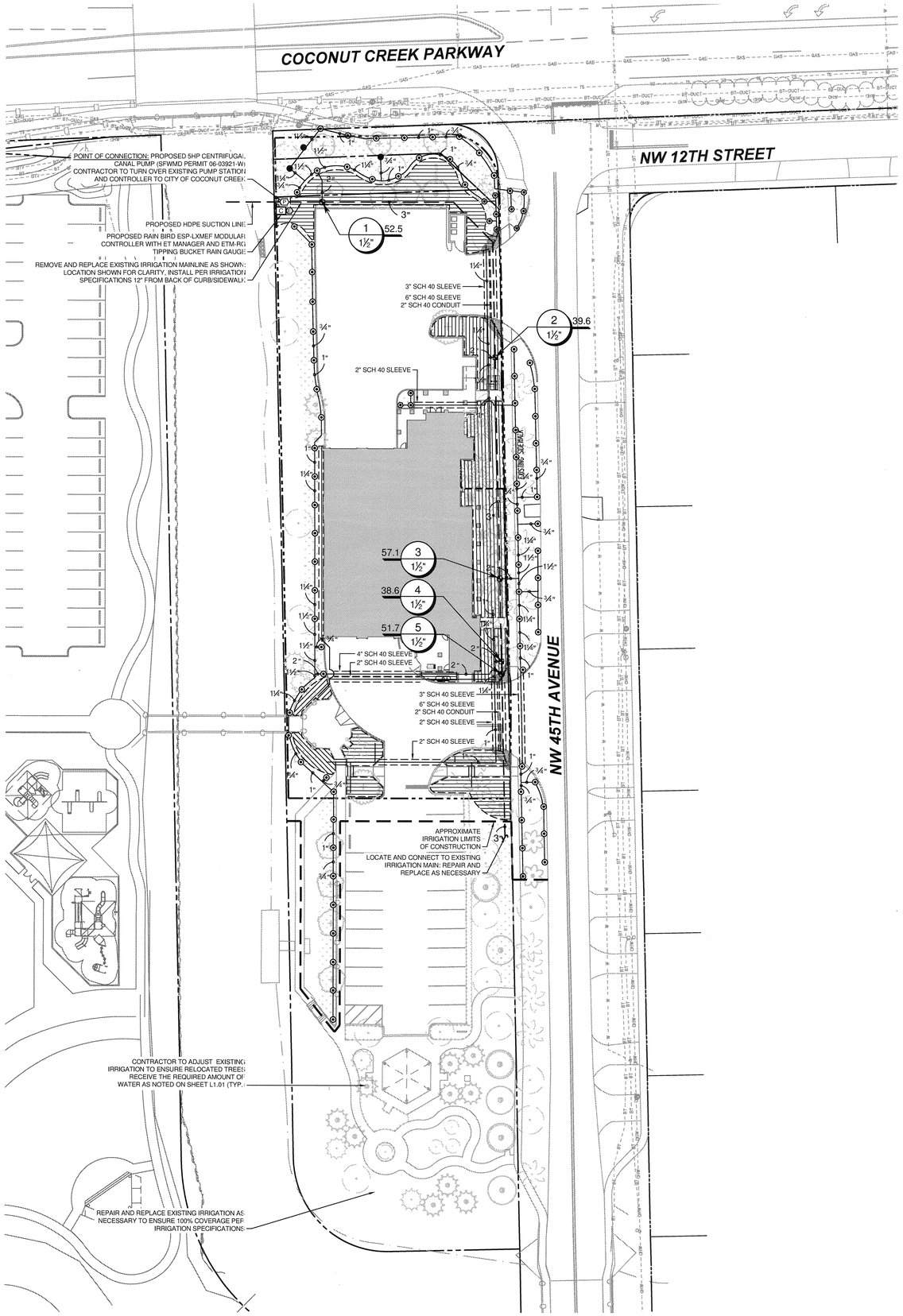
CPZ ARCHITECTS, INC.
4316 WEST BROWARD BOULEVARD
PLANTATION, FLORIDA 33317
PHONE: (954) 792-8325 FAX: (954) 337-0359
AA #26000065 WWW.CPZARCHITECTS.COM

DRAWING TITLE:
LANDSCAPE DETAILS

DRAWN	EDH
CHECKED	MSB
DATE	4–23–14
SCALE	AS NOTED
PROJECT NO.	1220B
SHEET:	L2.03

NOT FOR CONSTRUCTION
CRISTOBAL BETANCOURT, RLA
FL REGISTRATION NO. 6666941
STATE OF FLORIDA
DATE:

P:\PROJECTS\430.001 – COCONUT CREEK FIRE STATION 50\CAD\430.001_LNP.DWG 4/21/14 by EHARRISON



GRAPHIC SCALE
0 15 30 60
(IN FEET)
1 INCH = 30 FEET

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IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY	ARC	PSI	RADIUS
●	Rain Bird RD-06-S-P30-F 15 Series MPR	3	360	30	15'
⊙	Rain Bird RD-06-S-P30-F 10 Series VAN	13	Adj	30	10'
⊙	Rain Bird RD-06-S-P30-F 15 Series VAN	80	Adj	30	15'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Rain Bird XCZ-150-PRB-COM 1-1/2" PESB remote control valve with two 1" pressure regulating quick-check basket filters.	2
	Area to Receive Dripline Rain Bird XFD-09-12 (18) XFD On-Surface Pressure Compensating UV Resistant Dripline. 0.9GPH emitters at 12" O.C. Dripline laterals spaced at 18" apart, with emitters offset for triangular pattern.	7,254 s.f.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Rain Bird PEB-PRS-D 1-1/2" remote control valve with pressure regulator.	3
C	Rain Bird ESP-LXMEF 8 Station modular controller with plastic wall mount, flow sensing, and water management capabilities	1
E	Rain Bird ETC-LX and ETM-RG ET manager cartridge with ETM-RG tipping bucket rain gauge.	1
P	Pump Station 5 HP centrifugal pumping system with variable frequency drive, flow sensor, and discharge isolation valve. 60 GPM, 150 TDH.	1
———	Irrigation Lateral Line: PVC Class 200 SDR 21	2,300 l.f.
— — —	Irrigation Mainline: PVC Class 200 SDR 21	550 l.f.
= = =	Pipe Sleeve: PVC Schedule 40 Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	470 l.f.

Valve Callout
- # — Valve Number
- # — Valve Flow
- #" — Valve Size

GENERAL NOTES

1. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES.
2. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO TAKE THE NECESSARY PRECAUTIONS TO ENSURE PROPER SAFETY AND WORKMANSHIP WHEN WORKING IN THE VICINITY OF EXISTING UTILITY LINES.
3. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH FPL ON ANY WORK IN THE VICINITY OF OVERHEAD OR UNDERGROUND POWER LINES.
4. CONTRACTOR SHALL VERIFY PROPER CLEARANCE BELOW EXISTING OVERHEAD POWER LINES PRIOR TO WORKING WITHIN THE VICINITY THE POWER LINES.
5. MAINLINE LOCATION, WHERE SHOWN, IS FOR GRAPHIC CLARITY PURPOSES ONLY. INSTALL AT THE BACK OF CURB, FRONT OF WALK, BACK OF WALK, OR ADJACENT TO OTHER HARDSCAPES TO FACILITATE FUTURE LOCATION AND TO PROTECT FROM DAMAGE. ENSURE MAINLINE IS INSTALLED ACCORDING TO THE IRRIGATION SPECIFICATIONS AND DETAILS.
6. IF IT IS NECESSARY TO HAVE PIPING UNDER HARDSCAPE ITEMS, SUCH AS ROADS, WALKS AND PATIOS, THE PIPES MUST BE SLEEVED USING SCH 40 PVC WITH THE SLEEVE DIAMETER BEING AT LEAST TWICE THE SIZE OF THE PIPE IT IS CARRYING.
7. IRRIGATION SYSTEM SHALL COMPLY WITH SFWMD IRRIGATION SYSTEM CRITERIA AND CURRENT WATER USE PERMIT.

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	PSI	PSI @ POC	GPM	PRECIP
1	Rain Bird PEB-PRS-D	1-1/2"	Turf Spray	39.48	39.54	52.49	1.43 in/h
2	Rain Bird XCZ-150-PRB-COM	1-1/2"	Shrub Dripline	52.17	52.46	39.61	1.03 in/h
3	Rain Bird PEB-PRS-D	1-1/2"	Turf Spray	38.10	39.02	57.12	1.46 in/h
4	Rain Bird XCZ-150-PRB-COM	1-1/2"	Shrub Dripline	53.56	54.07	38.63	1.03 in/h
5	Rain Bird PEB-PRS-D	1-1/2"	Turf Spray	40.94	41.84	51.68	0.81 in/h

NO.	REVISION	DATE
	Site Plan Submittal	2–7–14
	DRC Comments	3–17–14
	50% CD Set	4–10–14
	DRC Comments #2	4–17–14

CONSULTANT:

CHEN•MOORE &ASSOCIATES
CERTIFICATES OF AUTHORIZATION EB0004593 LC26000425

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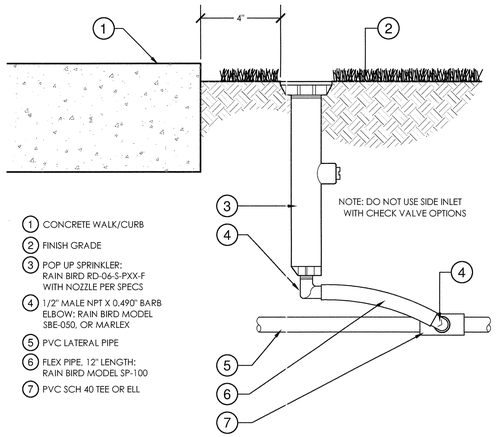
DRAWING TITLE:
IRRIGATION PLAN

NOT FOR CONSTRUCTION
CRISTOBAE BETANCOURT, RLA
REGISTRATION NO. 6669
STATE OF FLORIDA

DRAWN	EDH
CHECKED	MSB
DATE	4–23–14
SCALE	AS NOTED
PROJECT NO.	1220B
SHEET:	L3.01

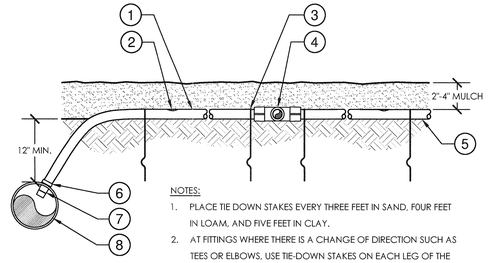


1. CONCRETE WALK/CURB
2. FINISH GRADE
3. POP UP SPRINKLER: RAIN BIRD RD-06-S-PXX-F WITH NOZZLE PER SPECS
4. 1/2" MALE NPT X 0.490" BARB ELBOW: RAIN BIRD MODEL SBE-050, OR MARLEX
5. PVC LATERAL PIPE
6. FLEX PIPE, 12" LENGTH: RAIN BIRD MODEL SP-100
7. PVC SCH 40 TEE OR ELL

1 6" POP-UP SPRAY

3" = 1'-0" 328403.13-03

1. ON-SURFACE DRIPLINE
2. INLINE DRIP EMITTER OUTLET
3. TIE DOWN STAKE (TYPICAL)
4. EASY FIT COMPRESSION TEE
5. FINISH GRADE
6. RATCHET CLAMP (INCLUDED WITH ADAPTER)
7. INSERT ADAPTER FOR PVC PIPE
8. PVC LATERAL PIPE (MINIMUM 1" IN DIAMETER MINIMUM 12" DEPTH



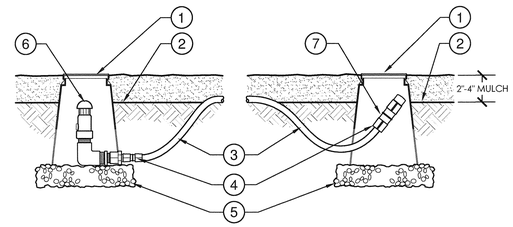
NOTES:

1. PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY.
2. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.

2 TYPICAL DRIPLINE AND HEADER

1 1/2" = 1'-0" 328413.56-86

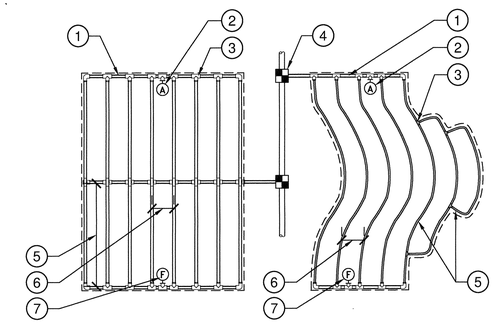
1. SUBTERRANEAN EMITTER BOX
2. FINISH GRADE
3. ON-SURFACE DRIPLINE
4. EASY FIT COUPLING
5. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
6. AIR RELIEF VALVE
7. FLUSH CAP FOR EASY FIT COMPRESSION FITTINGS



3 AIR RELIEF AND FLUSH VALVE

1 1/2" = 1'-0" 328413.56-87

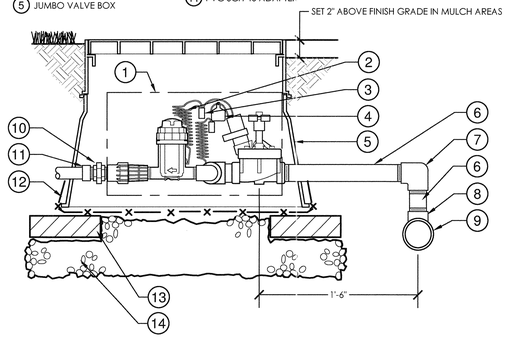
1. PVC HEADER
2. AIR RELIEF VALVE AT HIGH POINT
3. COMPRESSION FITTING
4. REMOTE CONTROL VALVE
5. DRIPLINE LATERAL NOT TO EXCEED MAXIMUM RECOMMENDED LENGTH
6. ROW SPACING AS PER PLANS. OFFSET EMITTERS FOR TRIANGULAR SPACING
7. FLUSH VALVE AT LOW POINT



4 TYPICAL DRIPLINE LAYOUT

1 1/2" = 1'-0" 328413.56-88

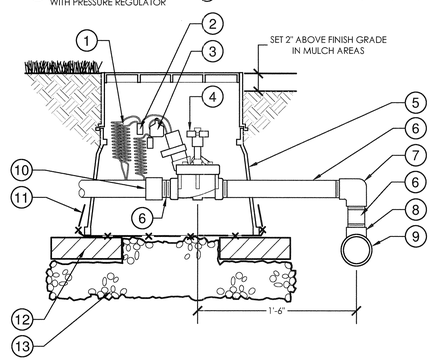
1. CONTROL ZONE KIT (AS SPECIFIED)
2. 30-INCH LINEAR LENGTH OF WIRE, COILED
3. WATERPROOF CONNECTION (1 OF 2)
4. ZONE ID TAG
5. JUMBO VALVE BOX
6. PVC SCH 80 NIPPLE
7. PVC SCH 40 ELL
8. PVC SCH 40 TEE
9. PVC MAINLINE PIPE
10. PVC UNION
11. PVC SCH 40 ADAPTER
12. 1/2" WIRE CLOTH GOPHER SCREEN WRAP ALL SIDES
13. BRICK (1 OF 4)
14. 6-INCH MINIMUM DEPTH 3/4" WASHED GRAVEL



5 CONTROL ZONE KIT WITH BASKET FILTER

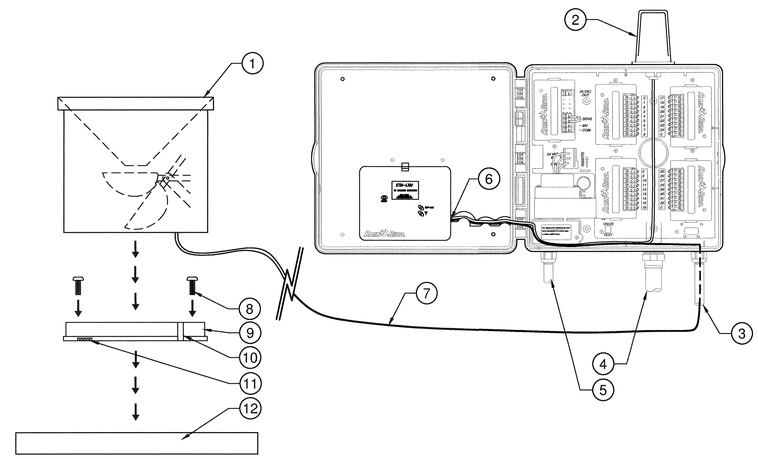
1 1/2" = 1'-0" 328413.76-31

1. 30-INCH LINEAR LENGTH OF WIRE, COILED
2. WATERPROOF CONNECTION (1 OF 2)
3. ZONE ID TAG
4. REMOTE CONTROL VALVE WITH PRESSURE REGULATOR
5. JUMBO VALVE BOX
6. PVC SCH 80 NIPPLE
7. PVC SCH 40 ELL
8. PVC SCH 40 TEE
9. PVC MAINLINE PIPE
10. PVC SCH 40 ADAPTER
11. 1/2" WIRE CLOTH GOPHER SCREEN WRAP ALL SIDES
12. BRICK (1 OF 4)
13. 6-INCH MINIMUM DEPTH 3/4" WASHED GRAVEL



6 PRESSURE REGULATING REMOTE CONTROL VALVE

1 1/2" = 1'-0" 328406.13-11

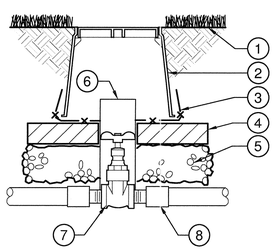


1. RAIN BIRD ET MANAGER TIPPING RAIN GAUGE: RAIN BIRD ETM-RG (DIMENSIONS 35/16" H X 115/16" W X 37/8" D)
2. RAIN BIRD LXME MODULAR CONTROLLER WITH ET MANAGER CARTRIDGE
3. 1-INCH PVC SCH 40 CONDUIT AND FITTINGS
4. 11/2"-INCH PVC SCH 40 CONDUIT AND FITTINGS
5. 1-INCH PVC SCH 40 CONDUIT TO POWER SUPPLY
6. CONNECT TIPPING RAIN GAUGE TO ET MANAGER CARTRIDGE
7. 30' LENGTH OF WIRE TO TIPPING RAIN GAUGE (INCLUDED). CUT TO REQUIRED LENGTH. IF ADDITIONAL DISTANCE IS REQUIRED THE RAIN GAUGE CAN HAVE A MAXIMUM CABLE RUN OF 500'. USE 14 AWG AS A MINIMUM WIRE SIZE FOR ADDITIONAL CABLE.
8. MOUNTING SCREWS (NOT INCLUDED)
9. MOUNTING PLATE WITH 2 MOUNTING HOLES
10. WIRE NOTCH
11. RAIN DRAINAGE HOLES
12. LEVEL SURFACE OR BRACKET

7 LXME OUTDOOR CONTROLLER WITH ET AND ETM-RG

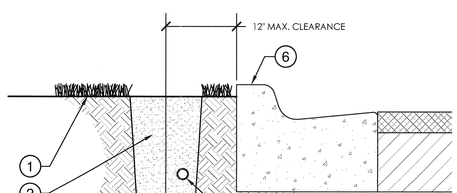
3/4" = 1'-0" 32 8409.13-09

1. FINISH GRADE
2. VALVE BOX
3. WIRE SCREEN CLOTH
4. BRICK (1 OF 4)
5. 6" DEPTH OF 3/4" MINUS GRAVEL
6. 3" ADS, SIZE AS REQUIRED
7. NIBCO T-113 BRASS GATE VALVE
8. PVC COUPLER AND SCHEDULE 80 TOE NIPPLE (EACH SIDE)



8 ISOLATION VALVE

1 1/2" = 1'-0" 32 8409.56-08

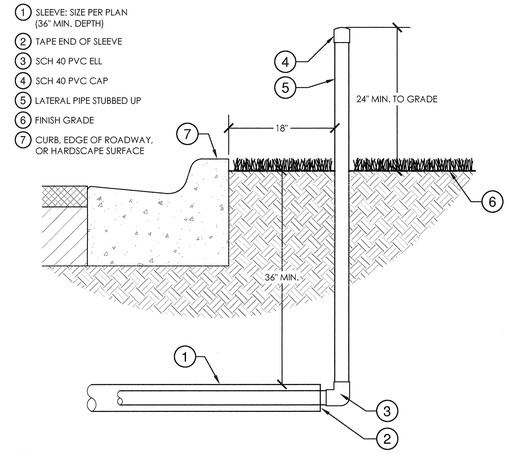


1. FINISH GRADE
2. BACKFILL PER SPECIFICATIONS
3. CONTROL WIRE IN SCH 40 CONDUIT
4. LATERAL PIPE (12" MIN. DEPTH)
5. MAINLINE PIPE (18" MIN. DEPTH)
6. CURB, EDGE OF ROADWAY, OR HARDSCAPE SURFACE

9 MAINLINE AND LATERAL PIPING

1" = 1'-0" 328409.76-24

1. SLEEVE: SIZE PER PLAN (36" MIN. DEPTH)
2. TAPE END OF SLEEVE
3. SCH 40 PVC ELL
4. SCH 40 PVC CAP
5. LATERAL PIPE STUBBED UP
6. FINISH GRADE
7. CURB, EDGE OF ROADWAY, OR HARDSCAPE SURFACE



10 PIPE SLEEVING

1" = 1'-0" 328409.76-32

NO.	REVISION	DATE
	Site Plan Submittal	2–7–14
	DRC Comments	3–17–14
	50% CD Set	4–10–14
	DRC Comments #2	4–17–14

CONSULTANT:

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DRAWING TITLE:
IRRIGATION DETAILS

DRAWN	EDH
CHECKED	MSB
DATE	4–23–14
SCALE	AS NOTED
PROJECT NO.	1220B
SHEET:	L3.02

NOT FOR CONSTRUCTION
CRISTOBAL BETANCOURT, RLA
FL REGISTRATION NO. 6666943
STATE OF FLORIDA

DATE:

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IRRIGATION SPECIFICATIONS

GENERAL NOTES

1. THE SYSTEM HAS BEEN DESIGNED TO CONFORM WITH THE REQUIREMENTS OF ALL APPLICABLE CODES. SHOULD ANY CONFLICT EXIST, THE REQUIREMENTS OF THE CODES SHALL PREVAIL. IT IS THE RESPONSIBILITY OF THE OWNER/INSTALLATION CONTRACTOR TO ENSURE THE ENTIRE SYSTEM IS INSTALLED ACCORDING TO ALL APPLICABLE LAWS, RULES, REGULATIONS AND CONVENTIONS. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS ACCORDING TO FEDERAL, STATE AND LOCAL LAWS.
2. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES.
3. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO TAKE THE NECESSARY PRECAUTIONS TO ENSURE PROPER SAFETY AND WORKMANSHIP WHEN WORKING IN THE VICINITY OF EXISTING UTILITY LINES.
4. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE AND VERIFY PROPER CLEARANCE WITH FPL ON ANY WORK IN THE VICINITY OF OVERHEAD OR UNDERGROUND POWER LINES.
5. THE CONTRACTOR MUST SUBMIT FOR APPROVAL, PRIOR TO INSTALLATION, COPIES OF THE MANUFACTURER'S CUT SHEETS/SPECIFICATIONS FOR ALL COMPONENTS TO BE USED IN THE IRRIGATION SYSTEM.
6. THE IRRIGATION CONTRACTOR SHALL BE CERTIFIED AS A CERTIFIED IRRIGATION CONTRACTOR BY THE IRRIGATION ASSOCIATION. THE CERTIFICATION SHALL BE CURRENT AND IN GOOD STANDING.

SCOPE OF WORK

1. THE WORK SPECIFIED IN THIS SECTION CONSISTS OF FURNISHING ALL COMPONENTS NECESSARY FOR THE INSTALLATION, TESTING, AND DELIVERY OF A COMPLETE, FULLY FUNCTIONAL AUTOMATIC LANDSCAPE IRRIGATION SYSTEM THAT COMPLETELY COMPLIES WITH THE 100% IRRIGATION PLANS, SPECIFICATIONS, NOTES, DETAILS AND ALL APPLICABLE LAWS, REGULATIONS, CODES AND ORDINANCES. THIS WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, THE PROVIDING OF ALL REQUIRED MATERIAL (PIPE, VALVES, FITTINGS, CONTROLLERS, WIRE, PRIMER, GLUE, ETC.), LAYOUT, PROTECTION OF THE PUBLIC, EXCAVATION, ASSEMBLY, INSTALLATION, BACK FILLING, COMPACTING, REPAIR OF ROAD SURFACES, CONTROLLER AND LOW VOLTAGE FEEDS TO VALVES, CLEANUP, MAINTENANCE, GUARANTEE AND AS-BUILT PLANS.
2. ALL IRRIGATED AREAS SHALL PROVIDE 100% HEAD-TO-HEAD COVERAGE FROM A FULLY AUTOMATIC IRRIGATION SYSTEM WITH A RAIN SENSOR AS SHOWN. THE RAIN SENSOR SHALL BE INSTALLED TO PREVENT ITS ACTIVATION BY ADJACENT HEADS. ALL WATERING PROCEDURES SHALL CONFORM TO LOCAL CODES, AS WELL AS THIS PROJECT'S REGIONAL WATER MANAGEMENT DISTRICT RESTRICTIONS AND REGULATIONS. ZONES ARE PRIORITIZED FIRST BY PUBLIC SAFETY AND THEN BY HYDRAULIC CONCERNS. THIS SEQUENCING WILL BE A MANDATORY PUNCH LIST ITEM. THESE PLANS HAVE BEEN DESIGNED TO SATISFY/EXCEED THE FLORIDA BUILDING CODE (FBC) APPENDIX F AND THE FLORIDA IRRIGATION SOCIETY STANDARDS AND SPECIFICATIONS FOR TURF AND LANDSCAPE IRRIGATION SYSTEMS, FOURTH EDITION.
3. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES 72 HOURS PRIOR TO COMMENCEMENT OF WORK.
4. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE THEMSELVES WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, STRUCTURES AND UTILITIES. DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTION, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE DESIGN. SUCH OBSTRUCTIONS, OR DIFFERENCES, SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER' AUTHORIZED REPRESENTATIVE. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
5. IRRIGATION CONTRACTOR SHALL REPAIR OR REPLACE ALL EXISTING SITE ITEMS DAMAGED BY THEIR WORK. IRRIGATION CONTRACTOR SHALL COORDINATE THEIR WORK WITH OTHER CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES AND LATERALS THROUGH WALLS, UNDER ROADWAYS AND PAVING, ETC.
6. THE CONTRACTOR SHALL TAKE IMMEDIATE STEPS TO REPAIR, REPLACE, OR RESTORE ALL SERVICES TO ANY UTILITIES WHICH ARE DISRUPTED DUE TO THEIR OPERATIONS. ALL COSTS INVOLVED IN DISRUPTION OF SERVICE AND REPAIRS DUE TO NEGLIGENCE ON THE PART OF THE CONTRACTOR SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

POINT OF CONNECTION (POC)

1. THE POC IS AN EXISTING 5HP PUMP SYSTEM UTILIZING A CANAL SOURCE (SFWMD PERMIT 06-03921-W). THE POC SHALL BE CAPABLE OF SUPPLYING A MINIMUM OF 50 GPM AT 150 TDH (60 PSI AT DISCHARGE). CONTRACTOR SHALL VERIFY THESE MINIMUM CONDITIONS CAN BE MET PRIOR TO BEGINNING IRRIGATION SYSTEM INSTALLATION.
2. IF THE CONDITIONS CAN NOT BE MET, THE CONTRACTOR MUST NOTIFY THE DESIGNER PRIOR TO PROCEEDING WITH THE WORK. IF THE CONTRACTOR DOES NOT DO SO, THE CONTRACTOR PROCEEDS AT THEIR OWN RISK AND BECOMES RESPONSIBLE FOR ANY FUTURE WORK REQUIRED TO MAKE THE SYSTEM PERFORM AS REQUIRED.

PIPING

1. PIPE LOCATIONS SHOWN ON THE PLAN ARE SCHEMATIC AND SHALL BE ADJUSTED IN THE FIELD. WHEN LAYING OUT MAINLINES PLACE A MAXIMUM OF 12" AWAY FROM EITHER THE BACK OF CURB, FRONT OF WALK, BACK OF WALK, OR OTHER HARDSCAPE TO ALLOW FOR EASE IN LOCATING AND PROTECTION FROM PHYSICAL DAMAGE. INSTALL ALL LATERAL PIPE NEAR EDGES OF PAVEMENT OR AGAINST BUILDINGS WHENEVER POSSIBLE TO ALLOW SPACE FOR PLANT ROOT BALLS. ALWAYS INSTALL PIPING INSIDE PROJECT PROPERTY BOUNDARY.
2. PIPES SHALL ALWAYS BE PLACED IN PLANTING BEDS. IF IT IS NECESSARY TO HAVE PIPING UNDER HARDSCAPES, SUCH AS ROADS, WALKS, AND PATIOS, THE PIPES MUST BE SLEEVED USING SCH 40 PVC WITH THE SLEEVE DIAMETER BEING TWICE THE SIZE OF THE PIPE IT IS CARRYING WITH A MINIMUM SLEEVE SIZE OF 2".
3. PIPE SIZES SHALL CONFORM TO THOSE SHOWN ON THE DRAWINGS. NO SUBSTITUTIONS OF SMALLER PIPE SIZES SHALL BE PERMITTED, BUT SUBSTITUTIONS OF LARGER SIZES MAY BE APPROVED. ALL DAMAGED AND REJECTED PIPE SHALL BE REMOVED FROM THE SITE AT THE TIME OF SAID REJECTION.
4. PVC PIPE JOINT COMPOUND AND PRIMER: SLOW-DRYING, HEAVY DUTY CEMENT AND TINTED (PURPLE) PRIMER THAT IS COMPATIBLE WITH THE CEMENT. THE PVC CEMENT SHALL BE WELD-ON 2711 GREY AND THE PRIMER SHALL BE WELD-ON P70 PURPLE PRIMER, OR APPROVED EQUALS.
5. MAIN LINE PIPE DEPTH MEASURED TO THE TOP OF PIPE SHALL BE 18" MINIMUM, 36" MINIMUM AT VEHICULAR CROSSINGS.
6. LATERAL LINE DEPTHS MEASURED TO TOP OF PIPE SHALL BE 12" MINIMUM, 30" MINIMUM AT VEHICULAR CROSSINGS.

WIRING

1. IRRIGATION CONTROL WIRE SHALL BE THERMOPLASTIC SOLID COPPER, SINGLE CONDUCTOR, LOW VOLTAGE IRRIGATION CONTROLLER WIRE SUITABLE FOR DIRECT BURIAL AND CONTINUOUS OPERATION AT RATED VOLTAGES.
2. TAPE AND BUNDLE CONTROL WIRES EVERY 10' AND RUN ADJACENT TO THE MAINLINE INSIDE SCHEDULE 40 PVC CONDUIT. AT ALL TURNS IN DIRECTION MAKE A 2' COIL OF WIRE USING A JUNCTION BOX. AT ALL VALVE BOXES COIL WIRE AROUND A 3/4" PIECE OF PVC PIPE TO MAKE A COIL USING 30 LINEAR INCHES OF WIRE. MAKE ELECTRICAL CONNECTIONS WITH 3M-DBY,DBR CONNECTORS.
3. WIRE SIZED, NUMBERED AND COLORED AS FOLLOWS:
   - #14 COMMON - WHITE
   - #14 TWO SPARE COMMON - BLACK
   - #14 HOT WIRES - RED
   - #14 FOUR SPARE HOT WIRES - YELLOW

LAYOUT

1. LAY OUT IRRIGATION SYSTEM MAINLINES AND LATERAL LINES. MAKE THE NECESSARY ADJUSTMENTS AS REQUIRED TO TAKE INTO ACCOUNT ALL SITE OBSTRUCTIONS AND LIMITATIONS PRIOR TO EXCAVATING TRENCHES.
2. STAKE ALL SPRINKLER HEAD LOCATIONS. ADJUST LOCATION AND MAKE THE NECESSARY MODIFICATIONS TO NOZZLE TYPES, ETC. REQUIRED TO ENSURE 100% HEAD TO HEAD COVERAGE. REFER TO THE EDGE OF PAVEMENT DETAIL ON THE IRRIGATION DETAIL SHEET.
3. SPRAY HEADS SHALL BE INSTALLED 4" FROM SIDEWALKS OR CURBED ROADWAYS AND 12" FROM UNCURBED ROADWAYS AND BUILDING FOUNDATIONS.
4. LOCATE VALVES PRIOR TO EXCAVATION. ENSURE THAT THEIR LOCATION PROVIDES FOR EASY ACCESS AND THAT THERE IS NO INTERFERENCE WITH PHYSICAL STRUCTURES, PLANTS, TREES, POLES, ETC. VALVE BOXES MUST BE PLACED A MINIMUM OF 12" AND A MAXIMUM OF 15" FROM THE EDGE OF PAVEMENT, CURBS, ETC., AND THE TOP OF THE BOX MUST BE 2" ABOVE FINISH GRADE. NO VALVE BOXES SHALL BE INSTALLED IN TURF AREAS WITHOUT APPROVAL BY THE IRRIGATION DESIGNER; ONLY IN SHRUB BEDS. NEVER INSTALL VALVE BOXES IN SPORT FIELD AREAS.

INSTALLATION

1. PIPES MUST CURE A MINIMUM OF 30 MINUTES PRIOR TO HANDLING AND PLACING INTO TRENCHES. A LONGER CURING TIME MAY BE REQUIRED; REFER TO THE MANUFACTURER'S SPECIFICATIONS. THE PIPE MUST CURE A MINIMUM OF 24 HOURS PRIOR TO FILLING WITH WATER.
2. PRIOR TO THE PLACEMENT OF HEADS, FLUSH ALL LINES FOR A MINIMUM OF 10 MINUTES OR UNTIL LINES ARE COMPLETELY CLEAN OF DEBRIS, WHICHEVER IS LONGER.

BACKFILLING

1. THE BACKFILL 6" BELOW AND 6" ABOVE ALL PIPING SHALL BE CLEAN SAND. ALL OTHER TRENCH BACKFILL CAN BE NATIVE MATERIAL BUT SHALL NOT CONTAIN ANYTHING LARGER THAN 2" IN DIAMETER.
2. CONTRACTOR SHALL BACKFILL ALL PIPING, BOTH MAINLINE AND LATERALS, PRIOR TO PERFORMING ANY PRESSURE TESTS. THE PIPE SHALL BE BACKFILLED WITH THE EXCEPTION OF 2' ON EACH SIDE OF EVERY JOINT (BELL FITTINGS, 90'S, TEES, 45'S, ETC.). THESE JOINTS SHALL NOT BE BACKFILLED UNTIL ALL PIPING HAS SATISFACTORILY PASSED ITS APPROPRIATE PRESSURE TEST AS OUTLINED BELOW.

FLUSHING

1. PRIOR TO THE PLACEMENT OF HEADS, FLUSH ALL LINES FOR A MINIMUM OF 10 MINUTES OR UNTIL LINES ARE COMPLETELY CLEAN OF DEBRIS, WHICHEVER IS LONGER.
2. USE SCREENS IN HEADS AND ADJUST HEADS FOR PROPER COVERAGE AVOIDING EXCESS WATER ON WALLS, WALKS AND PAVING.

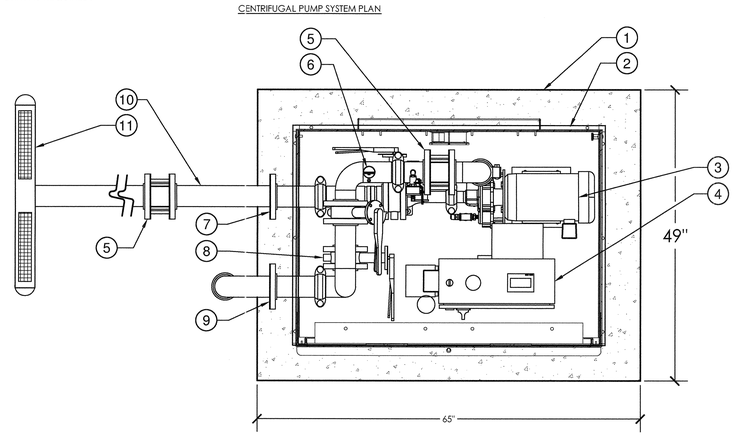
SUBMITTALS

1. THE CONTRACTOR MUST SUBMIT FOR APPROVAL, PRIOR TO INSTALLATION, COPIES OF THE MANUFACTURER'S CUT SHEETS/SPECIFICATIONS FOR ALL COMPONENTS TO BE USED IN THE IRRIGATION SYSTEM.
2. AFTER PROJECT COMPLETION, AND AS A CONDITION OF FINAL ACCEPTANCE, THE IRRIGATION CONTRACTOR SHALL PROVIDE THE OWNER WITH A HIGH QUALITY, ACCURATE, AND LEGIBLE SET OF AS-BUILT DRAWINGS. THE AS-BUILTS MUST IDENTIFY ALL REMOTE CONTROL VALVES, GATE VALVES, BALL VALVES, SPLICE BOXES, CONTROLLERS, MAINLINE, SLEEVING, AND LOW VOLTAGE WIRING. EACH OF THESE ITEMS IS SHALL LOCATED USING A SUBMETER GPS SYSTEM. THE IRRIGATION CONTRACTOR MUST ALSO PROVIDE ACCURATE, INFORMATIVE, AND EASY TO FOLLOW AND UNDERSTAND OPERATION AND MAINTENANCE MANUALS FOR ALL COMPONENTS OF THE IRRIGATION SYSTEM.
3. CONTROLLER CHARTS - UPON COMPLETION OF "AS-BUILTS", CONTRACTOR SHALL PREPARE CONTROLLER CHARTS AT ONE PER CONTROLLER. INDICATE ON EACH CHART THE AREA CONTROLLED BY A REMOTE CONTROL VALVE (USING A DIFFERENT COLOR FOR EACH ZONE). THIS CHART SHALL BE REDUCED TO A SIZE THAT WILL FIT INSIDE OF THE CONTROLLER DOOR. THE REDUCTION SHALL BE HERMETICALLY SEALED INSIDE TWO 2ML PIECES OF CLEAR PLASTIC.

FINAL ACCEPTANCE

1. FINAL ACCEPTANCE OF THE IRRIGATION SYSTEM WILL BE GIVEN AFTER THE FOLLOWING DOCUMENTS AND CONDITIONS HAVE BEEN COMPLETED AND APPROVED. FINAL PAYMENT WILL NOT BE RELEASED UNTIL THESE CONDITIONS ARE SATISFIED:
   1.1. FINAL WALK-THRU AND CORRECTION OF ALL PUNCH LIST ITEMS.
   1.2. COMPLETION AND ACCEPTANCE OF "AS-BUILT" DRAWINGS.
   1.3. ACCEPTANCE OF REQUIRED CONTROLLER CHARTS AND PLACEMENT INSIDE OF CONTROLLERS.
   1.4. TURNOVER OF ALL REQUIRED PARTS AND TOOLS AS OUTLINED IN THE PROJECT SPECIFICATIONS.
2. GUARANTEE: THE IRRIGATION SYSTEMS SHALL BE GUARANTEED FOR A MINIMUM OF ONE CALENDAR YEAR FROM THE TIME OF FINAL ACCEPTANCE.

CENTRIFUGAL PUMP SYSTEM PLAN



1. 3000 PSI CONCRETE SLAB
2. POWDER COATED ALUMINUM ENCLOSURE
3. HORIZONTAL 5 HP PUMP
4. NEMA 3R CONTROL PANEL
5. CHECK VALVE
6. FLOW SWITCH
7. INTAKE FLANGE
8. BYPASS VALVE
9. DISCHARGE FLANGE
10. HDPE SUCTION LINE
11. HDPE INTAKE WITH SELF CLEANING SCREEN

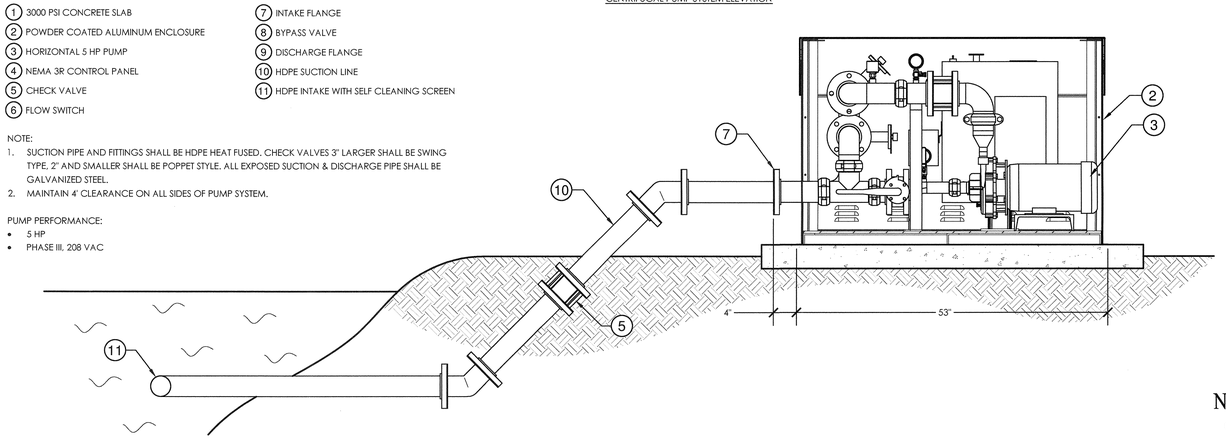
NOTE:

1. SUCTION PIPE AND FITTINGS SHALL BE HDPE HEAT FUSED. CHECK VALVES 3" LARGER SHALL BE SWING TYPE, 2" AND SMALLER SHALL BE POPPET STYLE. ALL EXPOSED SUCTION & DISCHARGE PIPE SHALL BE GALVANIZED STEEL.
2. MAINTAIN 4' CLEARANCE ON ALL SIDES OF PUMP SYSTEM.

PUMP PERFORMANCE:

- 5 HP
- PHASE III, 208 VAC

CENTRIFUGAL PUMP SYSTEM ELEVATION



9 5 HP CENTRIFUGAL SURFACE WATER PUMP SYSTEM

1" = 1'-0"

32 8409.56-08

NOT FOR CONSTRUCTION

CRISTOBAL BETANCOURT, RLA
FL REGISTRATION NO. 6666761
STATE OF FLORIDA

DATE:

NO.	REVISION	DATE
	Site Plan Submittal	2-7-14
	DRC Comments	3-17-14
	50% CD Set	4-10-14
	DRC Comments #2	4-17-14

CONSULTANT:

CHEN·MOORE &ASSOCIATES
CERTIFICATES OF AUTHORIZATION
EB0004593 LC26000425

PROPOSED NEW FIRE STATION 50
NW 45 AVE.

NW 45 AVE. & COCONUT CREEK PARKWAY
COCONUT CREEK, FLORIDA

CPZ ARCHITECTS, INC.
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DRAWING TITLE:
IRRIGATION
SPECIFICATIONS

DRAWN	EDH
CHECKED	MSB
DATE	4-23-14
SCALE	AS NOTED
PROJECT NO.	1220B
SHEET:	

L3.03

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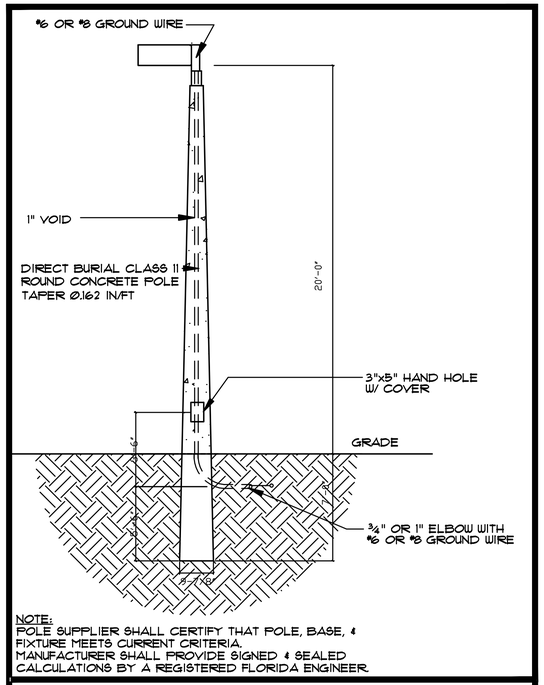
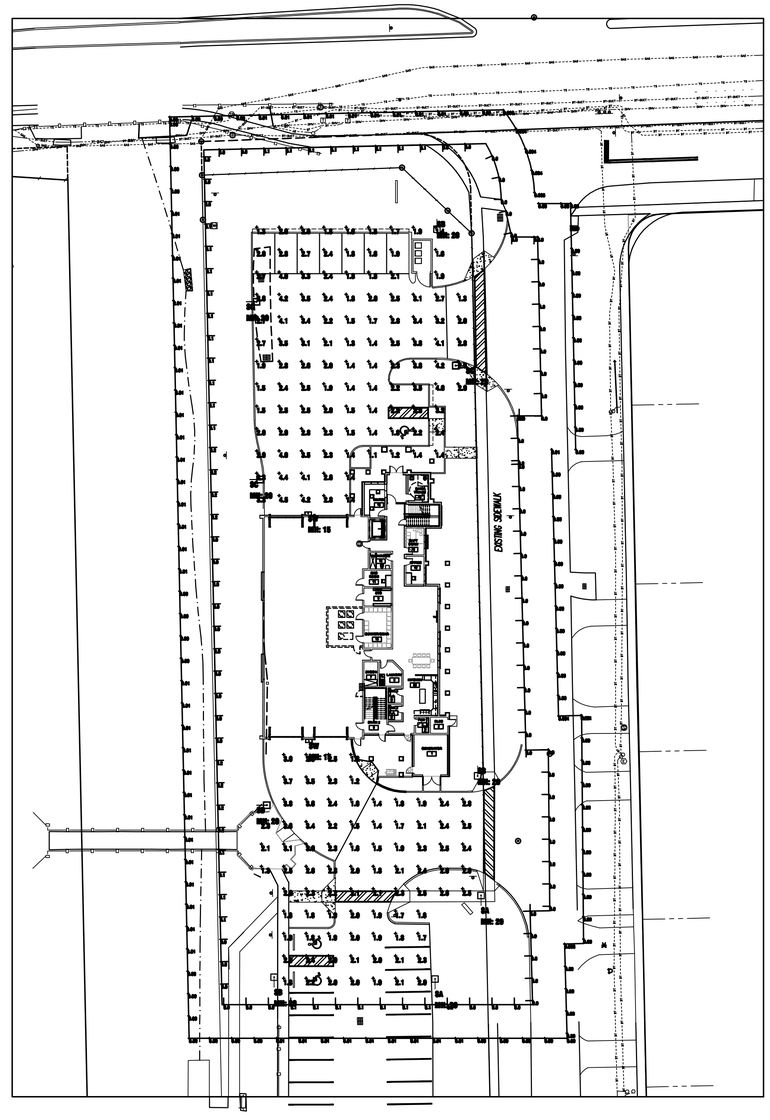


NOTE:
POLE SUPPLIER SHALL CERTIFY THAT POLE, BASE, & FIXTURE MEETS CURRENT CRITERIA.
MANUFACTURER SHALL PROVIDE SIGNED & SEALED CALCULATIONS BY A REGISTERED FLORIDA ENGINEER.

DIRECT BURIAL CONCRETE POLE DETAIL
NOT TO SCALE



SITE PHOTOMETRIC LEED PLAN
1/32"=1'-0"
NORTH

Luminaire Schedule

Project: FIRE STATION #50 NW 43 AVE AND COCONUT CREEK PARKWAY COCONUT CREEK, FL LEED SSS REV 1 3-10-2014

Symbol	Qty	Label	Description		Lum. Lumens	LLF	Lum. Watts	Total Watts	LED(W/Lamp)-EL	LED(W/Lamp)-HS
	2	EL	PHILIPS GARDCO PSU-4-EL-15SLA-SW	POLE MOUNT: 20' - 0" AFG	2644	1.000	150	300	0.0	0.0
	3	EL	PHILIPS GARDCO PSU-4-EL-15SLA-SW	POLE MOUNT: 20' - 0" AFG	2644	1.000	150	300	0.0	0.0
	3	HS	PHILIPS GARDCO PSU-SLS-C15SLA-SW-SSS	POLE MOUNT: 20' - 0" AFG	5945	1.000	210	630	0.0	0.0
	1	HS	PHILIPS GARDCO PSU-SLS-C70SLA-SW-SSS	POLE MOUNT: 20' - 0" AFG	5765	1.000	170	170	0.0	0.0
	2	SW	PHILIPS GARDCO 121-4-15SLA-SW	WALL MOUNT: 10' - 0" AFG	1345	1.000	15	30	0.0	0.0

Calculation Summary

Project: FIRE STATION #50 NW 43 AVE AND COCONUT CREEK PARKWAY COCONUT CREEK, FL LEED SSS REV 1 3-10-2014

Label	Avg	Max	Min	Avg/Min	Max/Min
SOUTH PARKING	2.43	4.5	1.1	2.21	4.09
SOUTH PARKING	2.21	3.0	1.2	1.84	2.17
LEED	N.A.	0.200	N.A.	N.A.	N.A.
LEED +10	N.A.	0.010	N.A.	N.A.	N.A.

LPD Area Summary

Project: FIRE STATION #50 NW 43 AVE AND COCONUT CREEK PARKWAY COCONUT CREEK, FL LEED SSS REV 1 3-10-2014

Label	Area	Total Watts	LPD
LPDArea	100127	1455	0.014

NO.	REVISION	DATE
	SITE PLAN SUBMITTAL	2-7-14
	DRC COMMENTS	3-17-14

CONSULTANT:

PROPOSED NEW FIRE STATION 50
NW 43 AVE.

NW 43 AVE & COCNUT CREEK PARKWAY
COCONUT CREEK, FLORIDA

CPZ ARCHITECTS, INC.
4316 WEST BROWARD BOULEVARD
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DRAWING TITLE:
LEED SITE PHOTOMETRIC PLAN

ISSUED FOR DRC 03/06/14

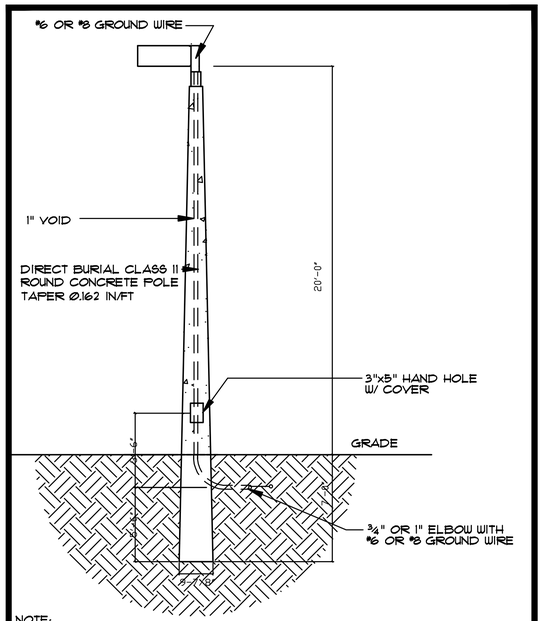
KAMM CONSULTING PROJECT #: 2013-0051
PROJECT MANAGER: JOHN MAYR

KAMM Consulting
1406 Orange Avenue
Fort Pierce, Florida 34950
Phone 772.595.1744 Fax 772.595.1745
www.kammconsulting.com
Certificate of Authorization #6116

PRINCIPAL
Bradly L. Brown Florida License #58232
03-17-14
date
signed

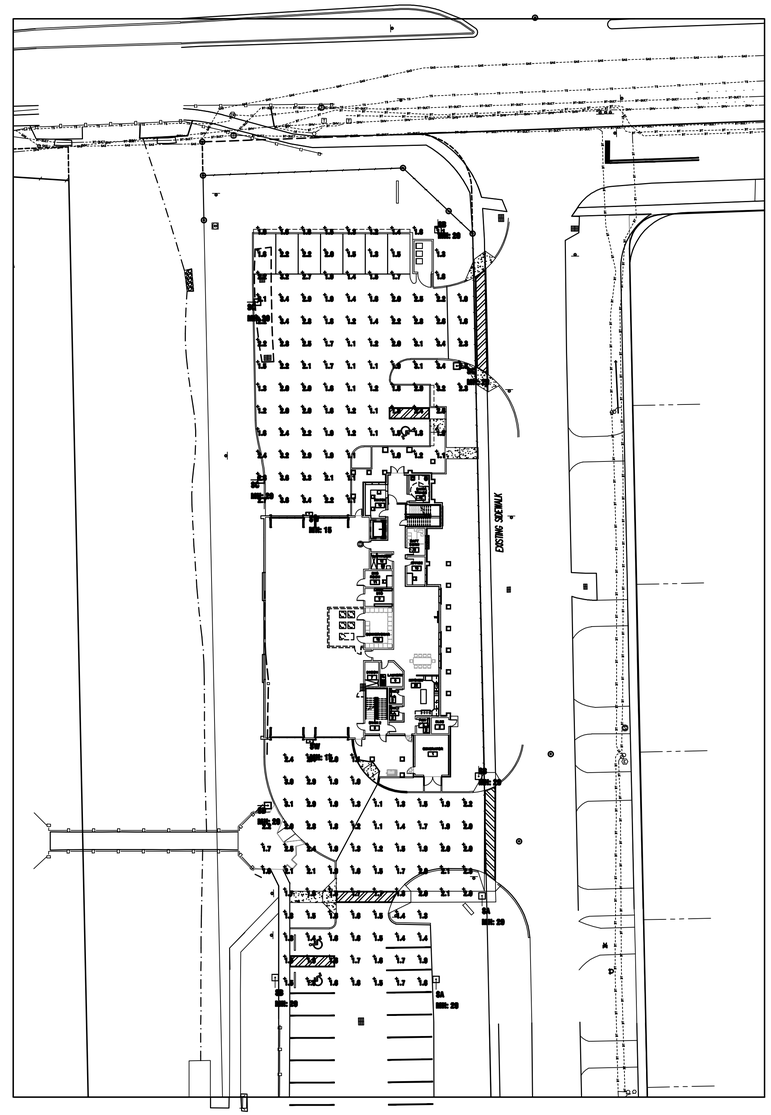
DRAWN	–
CHECKED	CPZ
DATE	–
SCALE	AS NOTED
PROJECT NO.	1220B
SHEET:	

E1.1



NOTE:
POLE SUPPLIER SHALL CERTIFY THAT POLE, BASE, & FIXTURE MEETS CURRENT CRITERIA.
MANUFACTURER SHALL PROVIDE SIGNED & SEALED CALCULATIONS BY A REGISTERED FLORIDA ENGINEER.

DIRECT BURIAL CONCRETE POLE DETAIL
NOT TO SCALE



SITE PHOTOMETRIC PLAN
1/32"=1'-0" NORTH

Luminaire Schedule

Project: FIRE STATION #50 NW 43 AVE AND COCONUT CREEK PARKWAY COCONUT CREEK, FL CCHE REV 1 3-10-2014

Symbol	Qty	Label	Description		Lum. Lumens	LLD	LDD	LLF	Lum. Watts	Total Watts
	2	SA	PHILIPS GARDCO PSU-LED-15SILA-SW	POLE MOUNT: 20' - 0" AFG	2444	0.850	0.925	0.910	130	260
	2	SB	PHILIPS GARDCO PSU-LED-15SILA-SW	POLE MOUNT: 20' - 0" AFG	2444	0.850	0.925	0.910	130	260
	2	SC	PHILIPS GARDCO PSU-SLD-24SILA-SW-SHIELD	POLE MOUNT: 20' - 0" AFG	3043	0.850	0.925	0.910	210	420
	1	SD	PHILIPS GARDCO PSU-SLD-17SILA-SW-SHIELD	POLE MOUNT: 20' - 0" AFG	2700	0.850	0.925	0.910	170	170
	2	SW	PHILIPS GARDCO 121-4-15SLA-SW	WALL MOUNT: 10' - 0" AFG	1240	0.850	0.925	0.910	15	30

Calculation Summary

Project: FIRE STATION #50 NW 43 AVE AND COCONUT CREEK PARKWAY COCONUT CREEK, FL CCHE REV 1 3-10-2014

Label	Avg	Max	Min	Avg/Min	Max/Min
NORTH PARKING	1.07	2.0	1.0	1.07	2.00
SOUTH PARKING	1.70	3.1	1.0	1.70	3.10

LPD Area Summary

Project: FIRE STATION #50 NW 43 AVE AND COCONUT CREEK PARKWAY COCONUT CREEK, FL CCHE REV 1 3-10-2014

Label	Area	Total Watts	LPD
LPDArea	102127	1430	0.014

NO.	REVISION	DATE
	SITE PLAN SUBMITTAL	2-7-14
	DRC COMMENTS	3-17-14

CONSULTANT:

PROPOSED NEW FIRE STATION 50
NW 43 AVE.

NW 43 AVE & COCNUT CREEK PARKWAY
COCONUT CREEK, FLORIDA

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AA #26000365 WWW.CPZARCHITECTS.COM

DRAWING TITLE:
SITE PHOTOMETRIC PLAN

ISSUED FOR DRC 03/06/14

KAMM CONSULTING PROJECT #: 2013-0031
PROJECT MANAGER: JOHN MAYR

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Certificate of Authorization #6189
PRINCIPAL
Brady L. Brown Florida License #58232
03-17-14
date
signed

DRAWN	–
CHECKED	CPZ
DATE	–
SCALE	AS NOTED
PROJECT NO.	1220B
SHEET:	

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