

**Coral Springs  
Improvement District**

**Agenda**

**April 18, 2022**



# Coral Springs Improvement District

Est. 1970

April 12, 2022

Board of Supervisors  
Coral Springs Improvement District

Dear Board Members:

The regular meeting of the Board of Supervisors of the Coral Springs Improvement District will be held Monday, April 18, 2022, at 4:00 p.m. at the District Offices, 10300 NW 11<sup>th</sup> Manor, Coral Springs, Florida. To comply with CDC guidelines on social distancing due to Covid-19, members of the public can attend via conference call by dialing 1-646-838-1601, meeting ID# 209017029#. Following is the advance agenda for the meeting.

1. Call to Order
2. Approval of the Minutes of the March 21, 2022 Meeting
3. Audience Comments
4. Financials for March 2022
5. Consideration of Permits
  - A. Consideration of SWM Permit 2020-6 for the Eagle Trace Tennis Center - Glen
  - B. Consideration of ROW Permit 2022-3, for Installation of Conduit on 1533 NW 111<sup>th</sup> Avenue – Shawn/Curt
6. Discussion and Consideration of Setting a Fee for Initial Pre-Meetings for Developers to Minimize Potential Cost Recovery Agreement Costs and Improve Communication
7. Ratification of Purchase of a Variable Frequency Drive (VFD) for Deep Well Pump P405 in the Amount of \$15,232 (*the VFD failed and even though the model is no longer manufactured, staff was able to find an exact replacement in new old stock at Industrial Solutions Authority, LLC, saving the District from having to make electrical modifications and programming, which would have required additional spending*) – Tom
8. Consideration of Proposal by Florida Technical Consultants, LLC in an Amount not to Exceed \$145,440 for Conducting Updates to the District's GIS System Based on Existing Record Drawings and Material (*work will be done under the contract between Cooper City and FTC, which the District piggybacked on in January of 2020*) - Curt
9. Consideration of a Request by Staff for Board Approval of a Contract with Brightview Landscape Services as the Low Bidder to the District Advertised RFP for Landscaping Services at (\$67,760 annually (\$5,647 month), Staff also Requests Board Approval to Engage the Next Lowest Bidder if the Contract is Terminated for Any Reason (*all bidders are qualified*)) - Joe
10. Consideration of Work Authorizations
  - A. Work Authorization #191 for CSID North Blower Room Blower Replacement at a Total Cost of \$919,363.63
  - B. Work Authorization #201 for Site 15 Bank Assessment & Design for a Total Cost of \$113,436 (Tabled Item)
11. Engineer's Report

12. Staff Reports
  - A. Manager – Ken Cassel
  - B. Department Reports
    - Operations – David McIntosh
    - Utilities Update – Joe Stephens
    - Utility Billing Customer Service Report – Dave Berringer
    - Water – Christian McShea
    - Wastewater – Tom Kedrierski
    - Stormwater – Shawn Frankenhauser
    - Field – Curt Dwigins
    - Maintenance Report – Pedro Vasquez
    - Human Resources – Jan Zilmer
    - Motion to Accept Department Reports
  - C. Attorney
13. Supervisors' Requests
14. Adjournment

Any supporting documents not included in the agenda package will be distributed at the meeting.  
If you have any questions prior to the meeting, please contact me.

Sincerely,



Kenneth Cassel/sd  
District Manager

cc: District Staff  
Terry Lewis  
Seth Behn  
Rick Olson  
Beverley Servé  
Stephen Bloom

## **Second Order of Business**



**MINUTES OF MEETING  
CORAL SPRINGS  
IMPROVEMENT DISTRICT**

The regular meeting of the Board of Supervisors of the Coral Springs Improvement District was held Monday, March 21, 2022, at 4:05 p.m. at the District Office at 10300 NW 11<sup>th</sup> Manor, Coral Springs, Florida.

Present and constituting a quorum were:

Martin Shank	President
Len Okyn	Vice President

Also present were:

Ken Cassel	District Manager
Terry Lewis	District Attorney (Via Teams)
David McIntosh	Director of Operations
Joe Stephens	Director of Utilities
Ettie Schwartz	Director of Finance and Accounting
Jan Zilmer	Human Resources (Via Teams)
Rick Olson	District Engineer (Via Teams)
Shawn Frankenhauser	Stormwater Department (Via Teams)
Curt Dwiggin	Field Department (Via Teams)
Christian McShea	Water Department (Via Teams)
Tom Kedriewski	Wastewater Department (Via Teams)
David Berringer	Utility Billing and Customer Service
Pedro Vazquez	Maintenance Department (Via Teams)

***The following is a summary of the discussions and actions taken.***

**FIRST ORDER OF BUSINESS**

**Call to Order**

Mr. Cassel called the meeting to order at 4:05 p.m. and called the roll.

**SECOND ORDER OF BUSINESS**

**Approval of the Minutes of the  
February 28, 2022 Meeting**

There being no questions or comments,

On MOTION by Mr. Okyn seconded by Dr. Shank with all in favor, the minutes of the February 28, 2022 meeting were approved.
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**THIRD ORDER OF BUSINESS**

**Audience Comments**

There were no audience comments.

**FOURTH ORDER OF BUSINESS**

**Financials for February 2022**

There being no questions or comments.

On MOTION by Mr. Okyn seconded by Dr. Shank with all in favor the February 2022 financials were approved.

**FIFTH ORDER OF BUSINESS**

**Ratification of the Purchase of a Breaker for the North Blower Backup Generator Emergency Transfer Switch (The Purchase was Required to Replace a Failed Part and Ensure Automatic Power Transfer to the Generator on a Loss of FPL Power) – Joe/Tom**

Mr. Stephens provided an overview of the need to purchase a replacement breaker for the north blower backup generator emergency transfer switch.

On MOTION by Mr. Okyn seconded by Dr. Shank with all in favor the purchase of a breaker for the north blower backup generator emergency transfer switch at a total cost of \$13,099 was ratified.

**SIXTH ORDER OF BUSINESS**

**Consideration of a Request by Staff to Allow CSID to Piggyback on Florida-Spectrum Environmental Services Contract with the Town of Davie, Florida, Including Extensions (The Contract is ITB# CS-18-89 for Water and Wastewater Laboratory Services) - Joe**

Mr. Stephens reviewed the Florida-Spectrum Environmental Services contract for water and wastewater laboratory services.

On MOTION by Mr. Okyn seconded by Dr. Shank with all in favor a contract with Florida-Spectrum Environmental Services for water and wastewater laboratory services, piggybacking off the Town of Davie contract, was approved.

**SEVENTH ORDER OF BUSINESS**

**Consideration of a Supplemental Agreement to the Contract with Quest for Management and Operating Services for the Development of a Video Series for Establishing CSID’s YouTube Channel – David**

Mr. McIntosh reviewed the supplemental agreement to the Quest contract for management and operating of the YouTube channel.

Mr. Okyn MOVED to approve the supplemental agreement to the Quest contract for management and operating services for the development of a video series establishing the District’s YouTube channel and Dr. Shank seconded it.

- Discussion ensued and Dr. Shank expressed opposition. There was further discussion regarding addressing the referendum, which will be on the 2020 General Election ballot.

On VOICE vote with all in favor, the motion as previously outlined passed.

**EIGHTH ORDER OF BUSINESS**

**Consideration of a Request by Staff to Sign on the Contract with Port Consolidated, Negotiated by the City of Pompano Beach, as Lead Agency for the Southeast Florida Governmental Purchasing Cooperative (The Contract Allows for the Purchase of Unleaded Gasoline and Diesel Fuel and CSID as a Member of the Cooperative) - Joe**

Mr. Stephens provided an overview of the contract with Port Consolidated for the purchase of fuel.

On MOTION by Mr. Okyn seconded by Dr. Shank with all in favor the contract with Port Consolidated, for the purchase of gasoline and diesel fuel under a membership cooperative was approved.

**NINTH ORDER OF BUSINESS**

**Consideration of Request by MWI for Change Order #1 to Contract GF-2020-01, Increasing the Total Contract Amount from \$31,644 to \$35,166, an Increase of \$3,522 (This is Due to Repairs that were not Anticipated by the Contract being Discovered when the Pumps were Disassembled) - Shawn**

Mr. Frankenhauser reviewed Change Order #1 to contract GF-2020-01 with MWI.

On MOTION by Mr. Okyn seconded by Dr. Shank with all in favor Change Order #1 to contract GF-2020-01 with MWI for an increase of \$3,522 was approved.

**TENTH ORDER OF BUSINESS**

**Consideration of Request by Staff for Board Approval of a Proposal from ATL to Carry Out Cleaning of Culverts in the District as Specified (CSID is Piggybacking on the Contract between ATL with the City of West Palm Beach and Culvert Cleaning Services is Included) - Shawn**

Mr. Frankenhauser reviewed the proposal from ATL to cleanout culverts.

On MOTION by Mr. Okyn seconded by Dr. Shank with all in favor the proposal from ATL to cleanout culverts, piggybacking off the West Palm Beach contract, was approved.

**ELEVENTH ORDER OF BUSINESS**

**Consideration of Work Authorizations**

**A. Work Authorization #201 for Site 15 Bank Assessment & Design for a Total Cost of \$113,346 (Tabled Item)**

On MOTION by Mr. Okyn seconded by Dr. Shank with all in favor this item was tabled.

**TWELFTH ORDER OF BUSINESS**

**Engineer's Report**

Mr. Olson reviewed his report, a copy of which is attached hereto and made a part of the public record.

- Work Authorization #168 - expected to be completed tomorrow. A programmer will be out to finish the programming.

- Work Authorization #183 – the manufacturer is providing a new pump and dampening system.
- Work Authorization #184 – is in the permitting process. Electrical is being redesigned.
- Work Authorization #197 – they walked this project today and identified a vendor that can deliver the valves within three weeks.
- Work Authorization #199 – the subcontractor is finishing up the design plans and a permit application is expected to be submitted soon.

**THIRTEENTH ORDER OF BUSINESS**

**Staff Reports**

**A. Manager – Ken Cassel**

Mr. Cassel discussed the following:

- He is still trying to get in contact with the County regarding the right-of-way issues.
- Mr. Stephens has letters provided by District Counsel’s office to be sent to the various insurance companies for the entities involved.
- He has been speaking with Mr. McIntosh and Mr. Stephens to see what they may have missed, kind of like a six-sigma system.

**B. Department Reports**

• **Operations – David McIntosh**

Mr. McIntosh reported the following:

- There is a no trespassing agreement with the Coral Springs Police Department so they can arrest any trespassers. He executed the necessary documents on behalf of the District.
- Ms. Catherine Givens, the Assistant City Manager for Coral Springs, would like a tour of the facility. She will be available next month, and Mr. McIntosh will coordinate with Dr. Shank.
- They have started preparations for the 2022 Open House.
- He introduced Ms. Schwartz, the new Director of Finance and Accounting.

• **Utilities Update – Joe Stephens**

Mr. Stephens reported the following:

- He is working on having a police officer available during the Open House.

- A landscaping RFP is being advertised and there will be a pre-bid meeting at the end of this month.

- **Utility Billing Customer Service Report – Dave Berringer**

Mr. Berringer reviewed his report, a copy of which is attached hereto and made part of the public record.

- **Wastewater – Tom Kedrierski**

Mr. Kedrierski reviewed his report, a copy of which is attached hereto and made part of the public record.

- **Water – Christian McShea**

Mr. McShea reviewed his report, a copy of which is attached hereto and made part of the public record.

- **Stormwater – Shawn Frankenhauser**

Mr. Frankenhauser reviewed his report, a copy of which is attached hereto and made part of the public record.

- **Field – Curt Dwiggin**

Mr. Dwiggin reviewed his report, a copy of which is attached hereto and made part of the public record.

- **Maintenance Report – Pedro Vasquez**

Mr. Vasquez reviewed his report, a copy of which is attached hereto and made part of the public record.

- **Human Resources – Jan Zilmer**

Mr. Zilmer discussed the following:

- Everything necessary for the Open House has been ordered or reserved.
- The end of this month will mark six months into the current Fiscal Year. Department Managers are working on their reviews

- **Motion to Accept Department Reports**

On MOTION by Mr. Okyn seconded by Dr. Shank with all in favor, the Department Reports were accepted.
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**C. Attorney**

• **Attorney General Opinion Request**

Mr. Lewis reported the following:

- He submitted the Attorney General Opinion request. He hopes to get a response back before the next Board meeting.
- He involved one of his partners, Mr. Wayne E. Flowers, in the case with the busted pipes. His opinion is there is potential liability for all parties: AT&T, Bluestream, etcetera.
- He discussed the ownership issue of the C-2 Canal. In 1972, Florida National Properties deeded the canal to CSID with an additional 32 acres. Three decades later WCI Properties issued a deed to the Lake Coral Springs Homeowner Association.
- Dr. Shank asked about recent legislation allowing meeting notices to be published on the website. Mr. Lewis reviewed the new legislation and explained it must be on a particular website. He also noted it is more difficult to do this, then to publish in a newspaper. He will review further and update the Board.
- Dr. Shank asked whether the NSID local bill passed. Mr. Lewis responded he believes it has passed but has not been signed yet.
- There was brief discussion regarding how the referendum will affect future District elections if passed.
- Dr. Shank asked if Mr. Lewis will be attending the FASD conference in June. Mr. Lewis will not be attending; however, Mr. Behn and Mr. Lyon from his firm will attend.

**FOURTEENTH ORDER OF BUSINESS                      Supervisors' Requests**

- Mr. Okyn asked Mr. Zilmer if there were any training programs going on for any internal and/or external staff. Mr. Zilmer spoke with Mr. Fred Fryer, and they will hold virtual classes. He is looking into what classes are applicable.
- Mr. Stephens discussed CPR and safety training that Mr. Frankenhauser set up for staff.
- Mr. Okyn congratulated staff on their efficiencies.

- Dr. Shank reminded everyone about the FASD conference and welcomed Ms. Schwartz to the team. He appreciates what everyone is doing.

**FIFTEENTH ORDER OF BUSINESS**

**Adjournment**

There being no further business,

On MOTION by Mr. Okyn seconded by Dr. Shank with all in favor the meeting was adjourned.

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Kenneth Cassel  
Assistant Secretary

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Dr. Martin Shank  
President



# **Fourth Order of Business**



## CORAL SPRINGS IMPROVEMENT DISTRICT

**FINANCIAL REPORTING FOR MARCH 2022**

**BOARD OF SUPERVISORS' MEETING APRIL 18, 2022**

**CORAL SPRINGS IMPROVEMENT DISTRICT  
GENERAL FUND  
SUMMARY REPORT**

For the Period Ending March 31, 2022

	<b>ADOPTED BUDGET FY 2021/2022</b>	<b>PRORATED BUDGET THRU 3/31/2022</b>	<b>ACTUAL 6 MONTHS ENDING 3/31/2022</b>	<b>VARIANCE FAVORABLE (UNFAVORABLE)</b>
<b>REVENUES</b>				
<b>TOTAL REVENUES</b>	\$ 8,242,100	\$ 2,974,374	\$ 2,979,187	\$ 4,813
<b>EXPENDITURES &amp; RESERVES</b>				
<b>TOTAL EXPENDITURES</b>	\$ 7,542,100	\$ 6,601,225	\$ 569,421	\$ 6,031,804
<b>TOTAL RESERVES</b>	\$ 700,000	\$ 350,000	\$ -	\$ 350,000
<b>TOTAL EXPENDITURES &amp; RESERVES</b>	\$ 8,242,100	\$ 6,951,225	\$ 569,421	\$ 6,381,804
<b>EXCESS REVENUES OVER (UNDER) EXPENDITURES &amp; RESERVES</b>			\$ 2,409,766	
<b>FUND BALANCE BEGINNING</b>			\$ 10,988,324	
<b>FUND BALANCE ENDING</b>			\$ 13,398,090	

**CORAL SPRINGS IMPROVEMENT DISTRICT  
WATER & SEWER FUND  
SUMMARY REPORT**

For the Period Ending March 31, 2022

	<b>ADOPTED BUDGET FY 2021/2022</b>	<b>PRORATED BUDGET THRU 3/31/2022</b>	<b>ACTUAL 6 MONTHS ENDING 3/31/2022</b>	<b>VARIANCE FAVORABLE (UNFAVORABLE)</b>
<b>REVENUES</b>				
<b>TOTAL REVENUES</b>	\$ 16,729,989	\$ 7,032,789	\$ 7,417,606	\$ 384,817
<b>EXPENDITURES</b>				
<b>TOTAL ADMINISTRATIVE</b>	\$ 2,582,880	\$ 1,319,215	\$ 1,182,578	\$ 136,637
<b>TOTAL PLANT</b>	\$ 7,919,893	\$ 3,225,177	\$ 2,711,951	\$ 513,226
<b>TOTAL FIELD</b>	\$ 3,124,073	\$ 1,179,074	\$ 960,640	\$ 218,434
<b>TOTAL EXPENDITURES</b>	\$ 13,626,846	\$ 5,723,466	\$ 4,855,169	\$ 868,297
<b>AVAILABLE FOR DEBT SERVICE</b>			\$ 2,562,437	
<b>Total Debt Service</b>			\$ 1,410,518	
<b>Excess Revenues (Expenses)</b>			\$ 1,151,919	
<b>Net Assets Beginning</b>			\$ 41,174,833	
<b>Net Assets Ending</b>			\$ 42,326,752	

# **Fifth Order of Business**

**5A**

April 12, 2022

Ken Cassel, Manager  
Coral Springs Improvement District  
10300 NW 11<sup>th</sup> Manor  
Coral Springs, FL 33071

RE: Recommendation for storm water management and variance approval for the construction of new, stand-alone 3,717 SF recreation building and associated parking and recreational amenities on a 4.69 AC site  
CR 2020-6  
Coral Springs, FL 33071

Ken:

This office reviewed updated materials prepared by Stantec Engineering and submitted on March 31, 2022 for the construction of a new 3,717 SF stand-alone recreation building, additional parking utilizing permeable concrete pavers, modifications to the exiting parking lot and relocation of an existing playground area on a 4.69 acre parcel. Drainage from the proposed project is collected in inlets and routed through existing and proposed drainage system, discharging to the L207 canal in two locations.

**Background**

This project involves the redevelopment of a 4.69 AC parcel presently improved with tennis courts, a small building, parking and a playground. The parcel was assigned a low-density residential land use for the original drainage calculations for the CSID west basin. Historical aerial photos depict construction on this parcel in April of 1987. The 1990 aerial reveals conditions approximating those existing today and consisting of 11 tennis courts, one building and associated parking on this site. Drainage presently operates by the collection of runoff from parking and impervious areas with conveyance to the CSID canal system.

Existing Requirements and Compliance			
	Required	Provided	Compliance
Impervious Area	25% max	42%	No
Water Quality Treatment	1.05" and ½" dry pretreatment	1" in CSID system	No
Storage @ 10-year flood elevation	0.234 AF + 0.42 AF for excess impervious	.035 AF	No
Storage @ 100-year flood elevation	1.45 AF + 0.42 AF for excess impervious	1.906	Complies
PRB	Prior to discharge	None	No

## Eagle Trace Tennis Center

April 12, 2022

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**Project**

The proposed project involves the construction of a new 3,717 SF stand-alone recreation building, additional parking utilizing permeable concrete pavers, relocation of an existing playground area, along with modifications to the drainage system to provide dry pretreatment for vehicular use areas and accommodate changes to the exiting parking lot. Drainage modifications include:

- Construction of dry detention areas providing water quality treatment and increased storage
- Installation of a control structure causing all storm water flows from vehicular use areas to be routed through dry pretreatment facilities.
- Installation of a pollution retardant device prior to outfall for all portions of the drainage system serving vehicular use areas. T
- Utilization of permeable interlocking concrete pavers providing 0.02 AF of storage in the aggregate base while providing for percolation.

PCM Requirements and Compliance of Proposed			
	Required	Provided	Compliance
Impervious Area	25% max	51%	No
Dry pretreatment	½"	½" over vehicular use areas	Variance Required
Onsite Water Quality Treatment	Greater of 0.28" over site (=4667 CF total)	2,613 CF in dry retention providing 5226 CF of equivalent treatment	Complies
Storage @ 10-year flood elevation	0.234 AF + 0.66 AF for excess impervious	0.323 AF	Variance Required
Storage @ 100-year flood elevation	1.45 AF + 0.66 AF for excess impervious	2.11 AF (2.089 +0.02AF in base of permeable pavers)	Variance Required
PRB	Prior to discharge	Prior to discharge for drainage system serving VUA	Complies

**Assessment**

This project provides the required water quality treatment and storage at the 100-year flood elevation. Variances to allow dry pretreatment to be provided only for vehicular use areas and accept less storage than required at the 10 and 100-year flood elevations. The retroactive installation of PRBs is required only on those portions of the drainage system serving vehicular



Eagle Trace Tennis Center

April 12, 2022

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use areas. Runoff from tennis courts, walks, buildings, and landscaped areas are not required to pass through a pollution retardant device at this time.

Regards,

Glen A. Hanks, P.E.

cc Ken Cassel, Manager – CSID  
Joe Stephens – CSID  
Shawn Frankenhauser – CSID  
Najla Zerrouki P.E. – City of Coral Springs.

Comparison of Impacts to District Facilities: Existing – Proposed

	Existing	Proposed	Impact
Dry Pretreatment	None	½" for VUAs	Reduced pollution loading
Water Quality Treatment	Backbone system only. Slight deficiency	0.055 AF	Improved water Quality
Surface Runoff from 10-year Storm	2.13 AF	2.38 AF	0.25 AF increase
Surface Storage @ 10-year flood elevation	0.035 AF	0.323 AF	Increased storage at 10-year flood
10 year runoff to CSID system	2.095 AF	2.057	Reduced discharges to CSID system for 10-year storm
Surface storage @ 100-year flood elevation	1.906 AF	2.089 AF	Increased storage for 100-year storm
PRB	None	Prior to outfall	Reduced discharge of contaminants.

Comparison of Impacts to District Facilities: Existing - Proposed

	Existing	Proposed	Impact
Dry Pretreatment	None	½" for VUAs	Reduced pollution loading
Water Quality Treatment	Backbone system only. Slight deficiency	0.055 AF	Improved water Quality
Surface Runoff from 10-year Storm	2.13 AF	2.38 AF	0.25 AF increase
Surface Storage @ 10-year flood elevation	0.035 AF	0.323 AF	Increased storage at 10-year flood
10 year runoff to CSID system	2.095 AF	2.057	Reduced discharges to CSID system for 10-year storm
Surface storage @ 100-year flood elevation	1.906 AF	2.11 AF	Increased storage for 100-year storm
PRB	None	Prior to outfall	Reduced discharge of floating contaminants .



### Stage Storage Calculations (Post Development)

Project: Eagle Trace  
 Date: \_\_\_\_\_

Designed By: SMB  
 Reviewed By: \_\_\_\_\_

Stage/Storage Land Use				
Land Use	Area		Elevation	
	(sq.ft.)	(Ac)	Min. (ft)	Max. (ft)
Asphalt/Concrete	102,091	2.34	8.3	11
Open Space	87,422	2.01	7.80	11
Roof	5,200	0.12	11	11
Dry Det. Bottom	2,700	0.06	7	10
Dry Det Slopes	6,883	0.16	7	10
	204,296	4.69		

Roof area is excluded from stage/storage comps

Stage (Ft NAVD)	Dry Detention Slopes (ac-ft) (L)	Dry Detention (ac-ft) (V)	Impervious (ac-ft) (L)	Pervious (ac-ft) (L)	Total Storage (ac-ft)
7		0.000		-	0.000
<b>7.69</b>	<b>0.01</b>	<b>0.043</b>			<b>0.055</b>
8	0.03	0.062		0.01	0.101
<b>8.5</b>	<b>0.06</b>	<b>0.093</b>	<b>0.017</b>	<b>0.15</b>	<b>0.323</b>
9	0.11	0.124	0.213	0.45	0.894
9.5	0.16	0.155	0.625	0.91	1.851
<b>9.6</b>	<b>0.18</b>	<b>0.161</b>	<b>0.733</b>	<b>1.02</b>	<b>2.089</b>
10	0.24	0.186	1.254	1.52	3.195
10.5	0.316	0.217	2.101	2.29	4.920
11	0.395	0.248	3.164	3.21	7.018



## Water Quality Volume Calculations

Project: <u>Eagle Trace</u>	Designed By: <u>SMB</u>	
Date: <u>1/27/2022</u>	Reviewed By: <u>JC</u>	

**Notes:**

- Water Quality criteria states that drainage management system must treat the higher of the first inch of runoff from the site or 2.5 inches times the percent impervious. Studies have shown that the first inch (1") contains nearly 100% of all stormwater pollutants.

Drainage Area = 4.69 Acres  
 Impervious Area = 2.34 Acres  
 Pervious Area = 2.23 Acres  
 Lake/Pond Area = 0.00 Acres  
 Roof Area = 0.12 Acres

**Required Water Quality Volume**

1- First Inch of Runoff = Drainage Area X 1" = 4.69 Ac. In.  
 = **0.391** Ac. ft.

2- 2.5" x % Imperviousness =

Site area for water quality pervious/impervious calculations only:

= Total project - (water surface + roof) = 4.57 Acres

Impervious area for water quality pervious/impervious:

= (Site area for water quality pervious/impervious) - Pervious Area  
 = 2.34 Acres

Percentage of Imperviousness for water quality:

= (Impervious area for water quality/Site area for water quality) x 100%  
 = 51% Impervious

For 2.5 inches times the percentage impervious:

= 2.5 x 0.512035  
 = 1.28 inches to be treated

Compute volume required for water quality

= inches to be treated x (total site - lakes)  
 = **0.500** Ac.ft.

<b>0.500</b>	>	0.39	Ac.ft.
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3- Pretreatment Volume = 0.5 in x 0.61 Ac (vehicular use area) x (1 ft/12in) = **0.026** Ac.ft.

CSID requires Water quality treatment amounting to the greater of water quality treatment for the entire 4.69 AC site less the 1 inch provided in the backbone system, or ½" of dry pretreatment for vehicular use areas is required. (Required Quality Detention Volume)

Required WQV =  
 0.500 - 0.391 = **0.109** Ac.ft.

According to the CSID PERMIT CRITERIA MANUAL (Basin Criteria-pg18), if dry detention is used then 50% of the volume must be provided.

The required Water Quality Detention Volume = 0.109 / 2 = **0.055** Ac.ft.

April 12, 2022

Ken Cassel, Manager  
Coral Springs Improvement District  
10300 NW 11<sup>th</sup> Manor  
Coral Springs, FL 33071

RE: Recommendation for approval of variance  
for the construction of new, stand-alone 3,717 SF recreation building and  
associated parking and recreational amenities on a 4.69 AC site  
CR 2020-6  
Coral Springs, FL 33071

### **Summary**

The owner of the Eagle Trace Tennis Center, Eagle Trace Community Association Inc., submitted an application, requesting the Coral Springs Improvement District accept or allow: 52.5% impervious coverage, where 25% was originally anticipated; accept 0.323 AF of storage at the 10-year flood elevation where 0.90 AF is required; accept 2.11 AF of total storage (0.02 AF in permeable paver base and 2.09 AF of surface storage) where surface storage is specified in CSID standards; and allow pretreatment requirements to apply to vehicular use areas rather than the entire site.

### **Background**

The Eagle Trace Tennis Center was built in the late 1980's and is located at the NW corner of Eagle Trace Boulevard and Lakeview Drive. The project currently discharges to the L-206 canal to the north side of the property. When originally built, the tennis center exceeded the impervious percentage accommodated in the underlying master permit for CSID and failed to provide the basin required storage at the 10 and 100-year elevations. The tennis center relied on the CSID system for water quality treatment.

### **Requirements**

The Permit Criteria Manual requires

- Water quality treatment in excess of the 1" provided in the CSID system must be provided on-site
- 0.234 AF (0.05 AF/AC) of storage at the 10-year flood elevation to meet basin criteria
- 0.66 AF of additional storage at the 10-year flood stage to off-set increased storm water runoff from impervious areas exceeding those accommodated in the design of CSID's master system. This additional storage is to be provided at the 10 and 100-year flood elevations.

Eagle Trace Tennis Center  
Variance Evaluation and Recommendation  
April 12, 2022  
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- 2.11 AF of storage (basin requirement plus compensation for excess impervious areas) at the 100-year flood elevation.
- Dry pretreatment
- Pollution retardant baffles

### **Variance Requested**

The applicant is requesting a variance from District Storm Water Management Criteria, accepting 0.323 AF of storage at the 10-year flood elevation where 0.9 AF is required, allowing storage within the pervious paver aggregate base to count towards surface storage requirements, and allowing dry pretreatment requirements to only apply to vehicular use areas.

### **Evaluation of Variance**

The applicant demonstrated compliance with the following general criteria for Variances:

1. The owner/developer would encounter difficulties complying with the criteria. The existing site exceeds impervious area allowances and fails to provide the required storage at the 10 and 100-year flood elevations. The drainage modifications associated with the proposed 10% increase in impervious area increase the amount of storage provided at the 10-year flood eight fold (800%), reduce discharges to the CSID system for the 10-year storm (compared to existing). The permeable pavers incorporated into the project provides storage below ground but above the 100-year flood. The design provides reasonable assurances that this storage is utilized and may be counted towards the required storage at the 100-year flood elevation. To comply with storage requirements at the 10 year flood elevation considerable portions of the existing facility would need to be demolished and converted into retention areas.
2. The relaxation of criterial requested would not harm or interfere with the rights of others. The project presented reduces drainage impacts (quantity and quality) to CSID facilities. The incorporation of permeable interlocking concrete pavers to help meet storage requirements for the 100-year storm is innovative and provides a concrete example of alternative means of complying with CSID criteria.
3. Relaxing the storage and treatment criteria for this project provides immediate benefit to the community by reducing discharges to the CSID system while improving the quality of water being discharged.
4. The community will benefit from CSID granting the requested variances by expanding recreation opportunities for residents of Eagle Trace while improving the quality of storm water discharged to CSID while simultaneously improving the quality of discharged storm water.

Eagle Trace Tennis Center  
Variance Evaluation and Recommendation  
April 12, 2022  
Page 3

**Recommendation**

The variance request meets the criteria for waiving District Criteria and results in a positive impact to this District and the community in general. As an aside, the survey did not clearly depict the locations of existing trees. Review of recent aerial photos indicates there may be existing shade trees on the right of way line or within CSID right of way. The location of these trees does not warrant removal at this time.

We recommend the board grant the following subject to the attached conditions

1. Accept the construction of 0.288 AF of storage at the 10 year flood elevation as a reasonable and appropriate increase in the amount of storage provided at the 10-year flood elevation
2. Allow pretreatment requirements to apply to vehicular use areas only.
3. Allow storage within the permeable paver base and above the 100- year flood elevation to count towards meeting the required storage at the 100-year flood elevation.
4. Allow existing native trees to remain within the canal right of way adjacent to this project.

Respectfully,

Glen A. Hanks, P.E.



#### Conditions of Approval

1. The relaxation of District Criteria is temporary only. Subsequent modifications to this site are subject to approval by the Coral Springs Improvement District and may require additional improvements to the storm water management system.
2. Permeable concrete pavers must be maintained to ensure long-term performance. Perform periodic maintenance consistent with industry standards for permeable concrete pavers.
3. The use of sealants on permeable pavers is prohibited.
4. Native existing native trees within the adjacent CSID right of way may remain provided the owner maintain these trees, promptly clearing or removing downed trees, limbs and debris. Non-native trees shall be removed at the owner's expense.
5. Applicant shall prune remaining trees on a regular basis using a certified arborist, ensuring the clearances depicted on the attached exhibit are maintained.
6. Future plantings in CSID right of way other than grass and ground cover are prohibited.
7. The owner agrees to hold the District harmless from damages associated with the trees remaining in the right of way by executing a hold harmless agreement in a form acceptable to CSID's attorney.
8. Applicant shall reimburse the District for
  - a. any repairs to District facilities caused by components covered in this variance
  - b. the cost of any pruning or removal of trees from within the right of way if required.
9. Permits for the removal of any trees are the responsibility of the owner.

PARKING ANALYSIS - EAGLE TRACE					
Use	ft <sup>2</sup>	Quantity	Total ft <sup>2</sup>	Space/ft <sup>2</sup>	Parking Spaces
<b>Proposed Building</b>					
Break Room/Kitchen	92	1	92	200	0.46
Foyer	785	1	785	0	0
Gym	861	1	861	200	4.31
Restrooms	423	1	423	0	0
Mechanical	78	1	78	0	0
Meeting Room	1217	1	1217	200	6.09
Storage	260	1	260	0	0
<b>Existing Building</b>					
Office	500	1	500	200	2.5
Bathrooms	500	1	500	0	0
storage	26	1	26	0	0
Use	Spaces per	Quantity	Patrons Total	Spaces/Court	Parking Spaces
Existing Tennis Courts	5	5		5	25
Existing Basketball Courts	5	2		5	10

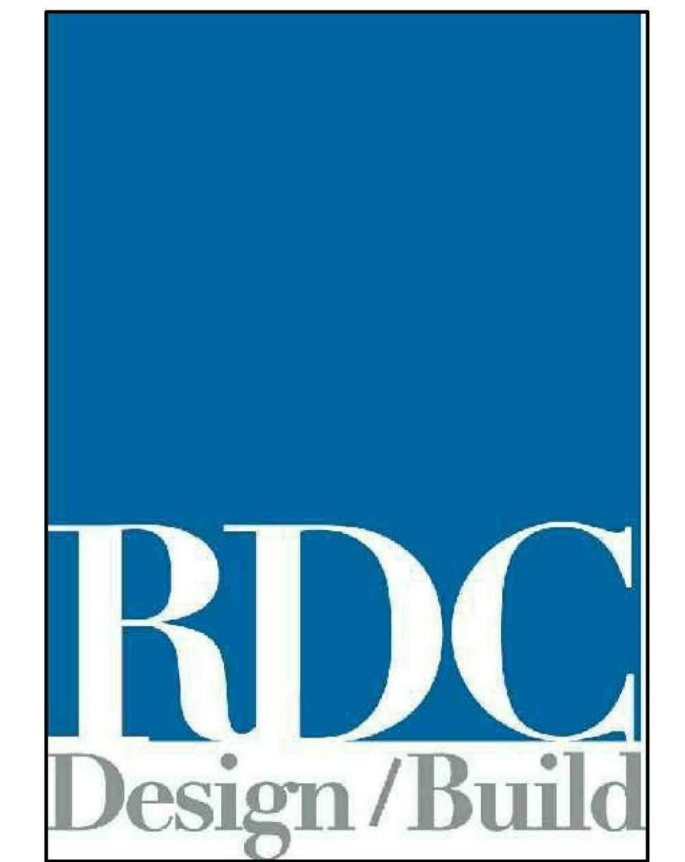
TOTAL = 48.35

Existing Onsite Parking	49
Onsite Parking Lost	-2
Onsite Parking Added North	8
Parking Provided	55
Parking Needed By Code	49
Deficit/Surplus	6

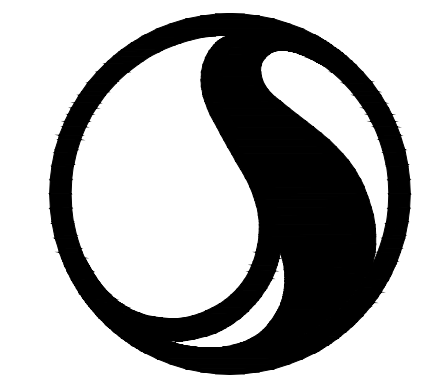
BICYCLE PARKING CALCULATION	
Use	Total
Vehicle Parking Spaces	55
Bicycle Parking Spaces Required = (1/40 Bicycle Per Vehicle)	1.3750
<b>TOTALS</b>	
BICYCLE PARKING REQUIRED	2
PROVIDED	12

PROPOSED IMPERVIOUS AREA TABLE	
Item	Total Area (acres)
Pavement	.09
Building	.11
Sidewalks	.23
Planter	.02
Playground	.04
Tennis Courts (Existing)	.31
<b>TOTALS</b>	
TOTAL PROPOSED IMPERVIOUS AREA	.80

EAGLE TRACE SITE DATA TABLE		
	REQUIRED	PROPOSED
ON-SITE EASEMENTS	1. ACCESS EASEMENT (ORB. 23495, PG. 881 B.C.R.) 2. 12' U.E. (ORB. 14151, PG. 252 B.C.R.) 3. C.S.I.D. ROAD ESMT. (PB. 116, PG. 19 B.C.R.) 4. U.E. (ORB. 14151 PG. 252 B.C.R.) 5. M.E. (ORB. 11883, PG. 176 B.C.R.) 6. 5' UTILITY ESMT. (ORB. 27240, PG. 310 B.C.R.) 7. 5' SIDEWALK ESMT. (ORB. 31622, PG. 296 B.C.R.) 8. ADDITIONAL R/W (ORB. 23638, PG. 792 B.C.R.) 9. UTILITY ESMT. (ORB. 24856, PG. 668 B.C.R.) 10. 12' D.E. (ORB. 28722, PG. 884 B.C.R.)	
LAND USE DESIGNATION	RESIDENTIAL MEDIUM, 8-20 D.U./ACRE	
ZONING DESIGNATION	B-2 COMMUNITY BUSINESS	
SITE AREA	FOLIO NUMBER(S): 484131030010; 484131030020; AREA = 204,166 SQ.FT. (4.688 ACRES) <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">1E</span>	
BUILDING GROSS FLOOR AREA	EXISTING BUILDING = 1,300 SQ.FT. PROPOSED BUILDING = 3,900 SQ.FT. TOTAL = 5,200 SQ.FT. <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span>	
FLOOR AREA RATIO (F.A.R.)	2.0 LOCAL ACTIVITY CENTER	0.0240
BLDG AREA/SITE AREA		
IMPERVIOUS AREA	107,291 SQ.FT. (2.46 AC) <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">1D</span>	
PERVIOUS AREA	97,005 SQ.FT. (2.23 AC)	
PARKING CALCS	1 SPACE/ 200 SQ.FT. COMM CENTER (NON-GOV) 5 SPACES/ TENNIS COURT 5 SPACES/ BASKETBALL COURT	55 SPACES (SEE PARKING ANALYSIS TABLE)
ADA PARKING SPACES	3 SPACES/TOTAL PARKING SPACES (51 TO 75)	3 SPACES
LOADING SPACES	NOT REQUIRED FOR THE PROPOSED USE PER THE CITY OF CORAL SPRINGS CODE	
YARDS	FRONT YARD ≥ 65' STREET SIDE YARD ≥ 20'	FRONT YARD = 214.0' SIDE YARD = 109.1
BUILDING HEIGHT	25' OR (1) FT IN HEIGHT FOR EVERY (2) FEET IN DISTANCE FROM RM ZONED PLOT	> 25'



**RECREATIONAL DESIGN & CONSTRUCTION, INC.**  
 3990 N. Powerline Rd.  
 Fort Lauderdale, FL 33309 USA  
 T: 954.566.3885  
 F: 954.566.3335  
 W:DCDesignbuild.com



**Stantec**  
 800 Fairway Dr, Suite 195  
 Deerfield Beach, FL 33441  
 Voice: 954.481.2812 Fax: 954.481.2818  
 www.stantec.com



FL PE # 46575  
 JEFFREY S. CREWS

No.	Description	Date
<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">A</span>	D.R.C. COMMENTS	8/23/21
<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">A</span>	D.R.C. COMMENTS 2	1/12/22
<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">A</span>	CSID COMMENTS	3/2/22

**RECREATIONAL COMMUNITY CENTER**

**SITE DATA TABLE**

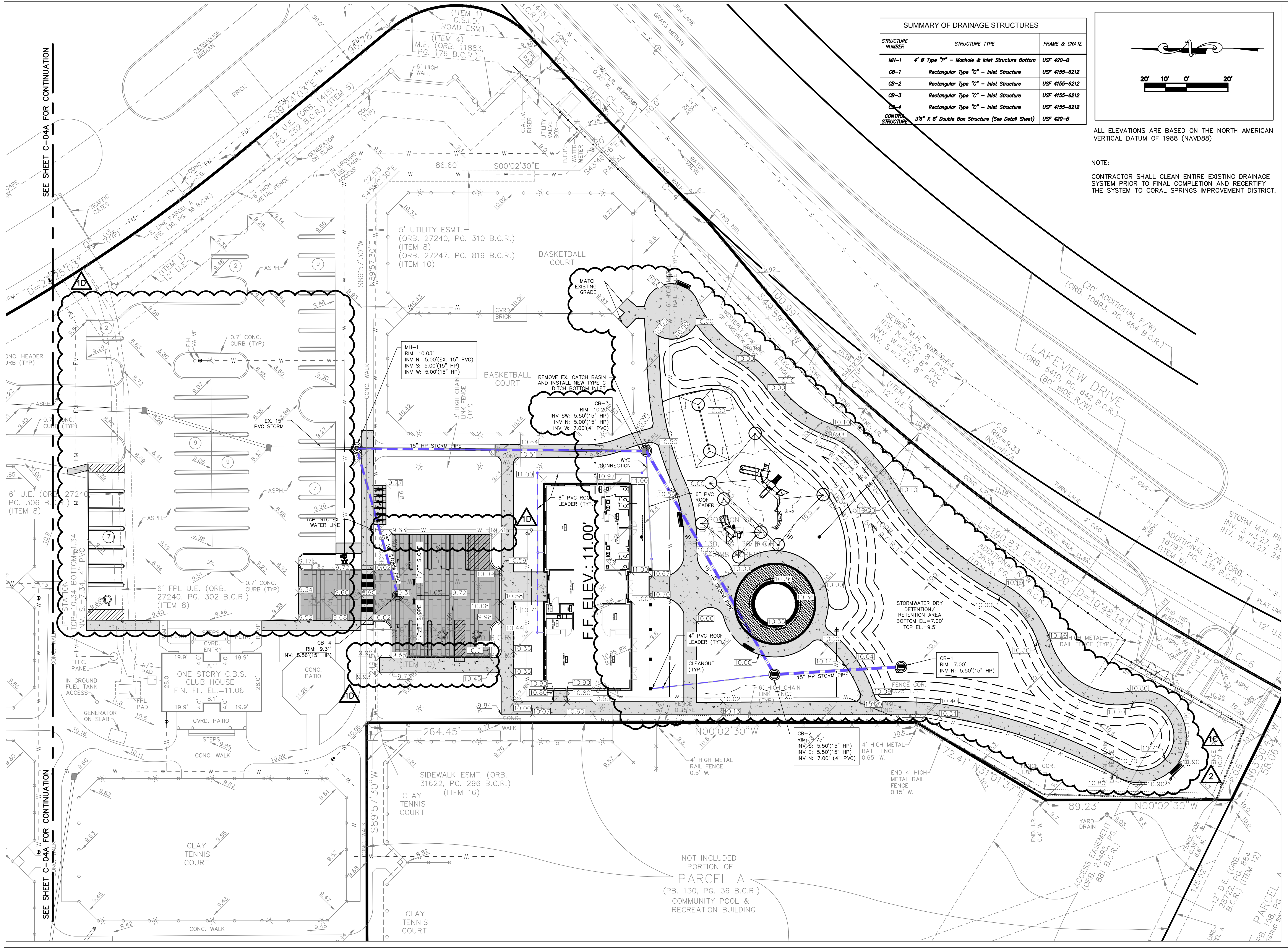
Project number	018-484
Date	1/12/2022
Drawn by	SMB
Checked by	JSC

**C-00**

Scale AS SHOWN

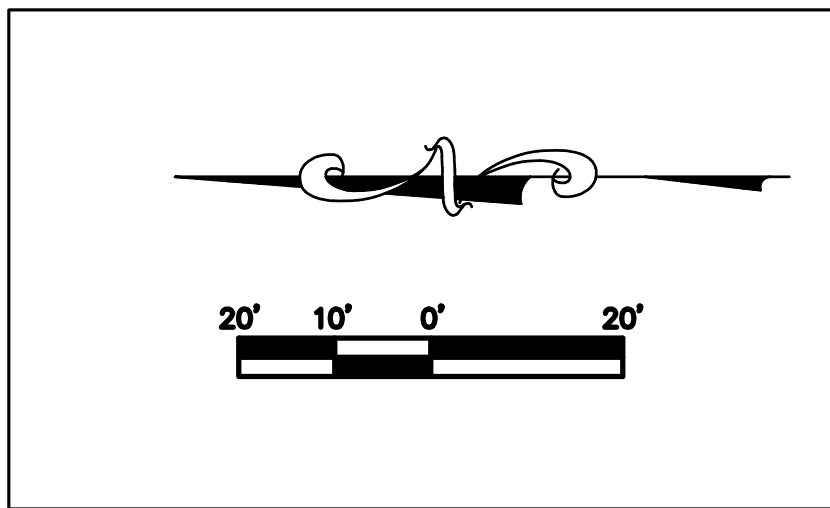
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**SUMMARY OF DRAINAGE STRUCTURES**

STRUCTURE NUMBER	STRUCTURE TYPE	FRAME & GRATE
MH-1	4' Ø Type "P" - Manhole & Inlet Structure Bottom	USF 420-B
CB-1	Rectangular Type "C" - Inlet Structure	USF 4155-6212
CB-2	Rectangular Type "C" - Inlet Structure	USF 4155-6212
CB-3	Rectangular Type "C" - Inlet Structure	USF 4155-6212
CB-4	Rectangular Type "C" - Inlet Structure	USF 4155-6212
CONTROL STRUCTURE	36" X 8' Double Box Structure (See Detail Sheet)	USF 420-B

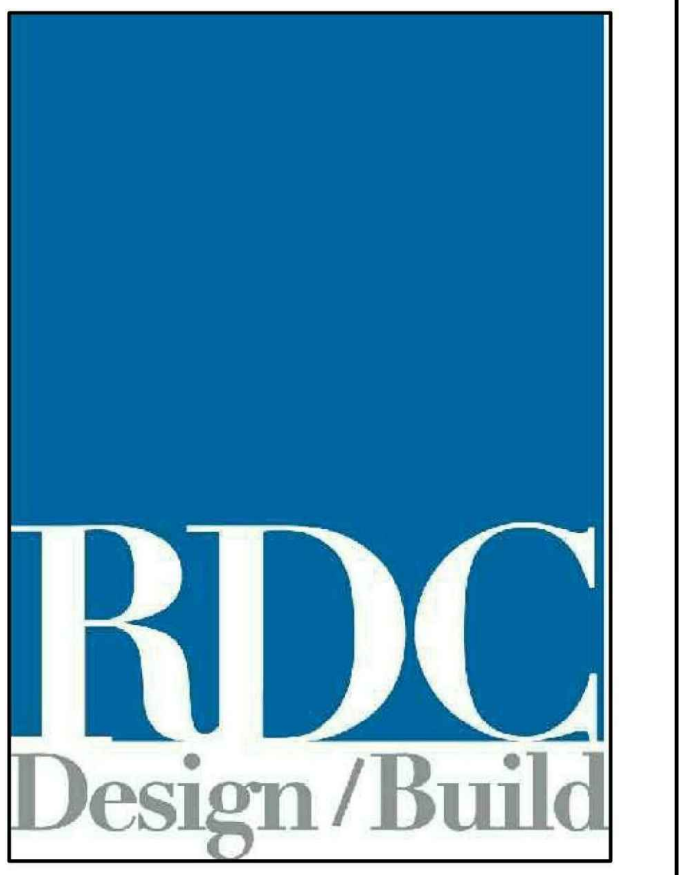


ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

NOTE:  
CONTRACTOR SHALL CLEAN ENTIRE EXISTING DRAINAGE SYSTEM PRIOR TO FINAL COMPLETION AND RECERTIFY THE SYSTEM TO CORAL SPRINGS IMPROVEMENT DISTRICT.

SEE SHEET C-04A FOR CONTINUATION

SEE SHEET C-04A FOR CONTINUATION



OWNER'S REVISION	7/1/21
D.R.C. COMMENTS	8/23/21
CSID COMMENTS	3/2/22

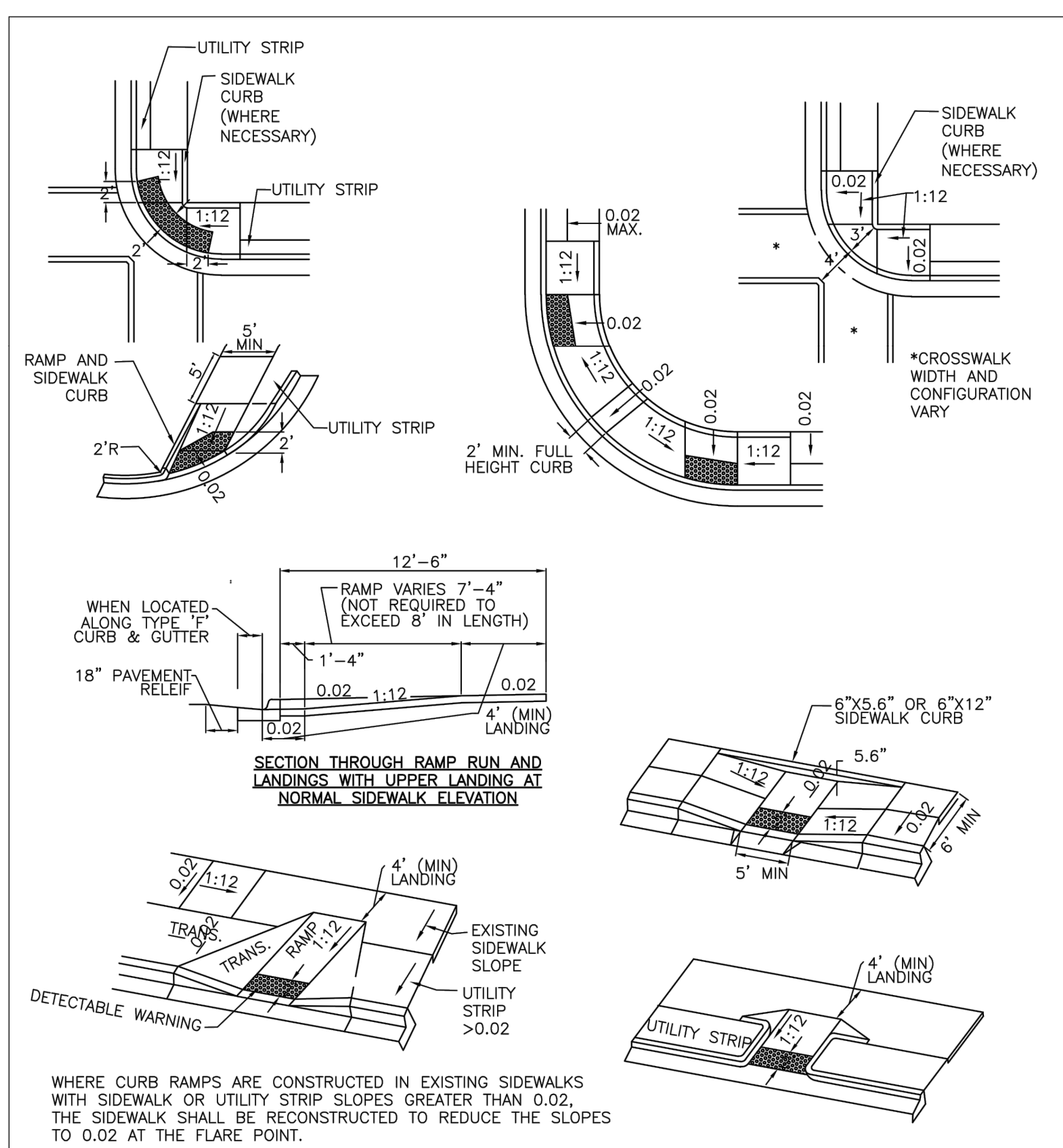
NOT INCLUDED PORTION OF PARCEL A (PB. 130, PG. 36 B.C.R.) COMMUNITY POOL & RECREATION BUILDING







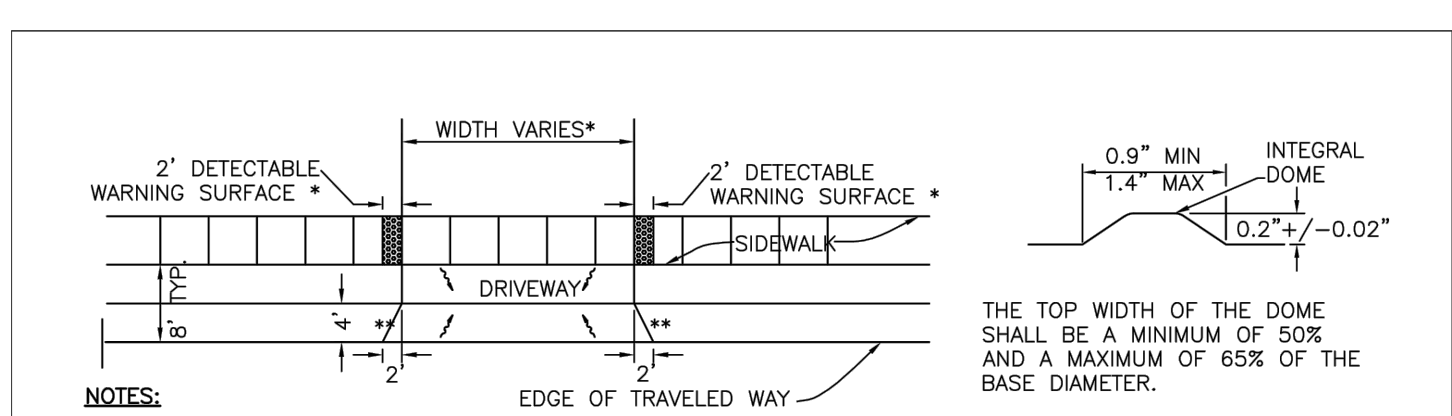
2



WHERE CURB RAMPS ARE CONSTRUCTED IN EXISTING SIDEWALKS WITH SIDEWALK OR UTILITY STRIP SLOPES GREATER THAN 0.02, THE SIDEWALK SHALL BE RECONSTRUCTED TO REDUCE THE SLOPES TO 0.02 AT THE FLARE POINT.

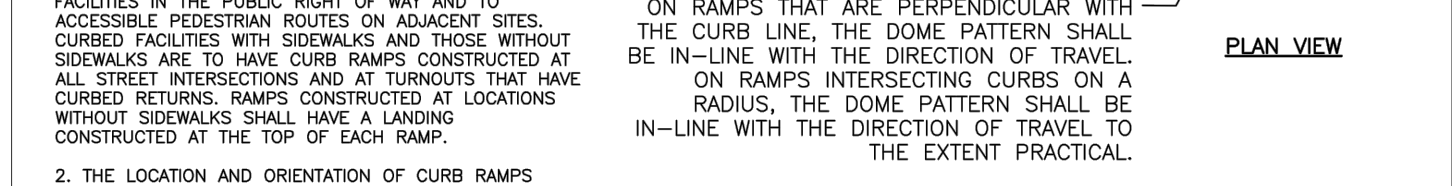
\* ALL DIMENSIONS ARE CONSIDERED MINIMUM DESIGN CONDITIONS UNLESS OTHERWISE APPROVED BY CITY ENGINEER FOR SPECIAL EXCEPTION AREAS

STANDARD DETAILS		TYPICAL SIDEWALK CURB CUT RAMPS	
	MARCH 2008	LAST MODIFIED	07/2014
NO.	DATE	REVISIONS	DETAIL NUMBER
		S-19	SHEET 1 OF 2



**NOTES:**  
 \* USE DETECTABLE WARNING SURFACES ONLY FOR DRIVEWAYS  
 \*\* 24" OR WIDER.  
 1. PUBLIC SIDEWALK CURB RAMPS SHALL BE CONSTRUCTED IN THE PUBLIC RIGHT OF WAY AT LOCATIONS THAT WILL PROVIDE CONTINUOUS UNRESTRICTED PEDESTRIAN ROUTES TO ADJACENT SITES.  
 2. SIDEWALKS ADJOINING 24" DRIVEWAYS, ALLEYS, OR STREETS SHALL HAVE A DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH OF THE SIDEWALK IN THE DIRECTION OF TRAVEL. THE MINIMUM LENGTH OF THE DETECTABLE WARNING SURFACE SHALL BE 24" FROM THE EDGE OF DRIVEWAYS, EDGE OF SIDE ROADS, OR STREETS.  
 3. SIDEWALKS SHALL BE CONTINUOUS THROUGH ALL DRIVEWAYS REGARDLESS OF DRIVEWAY WIDTH.

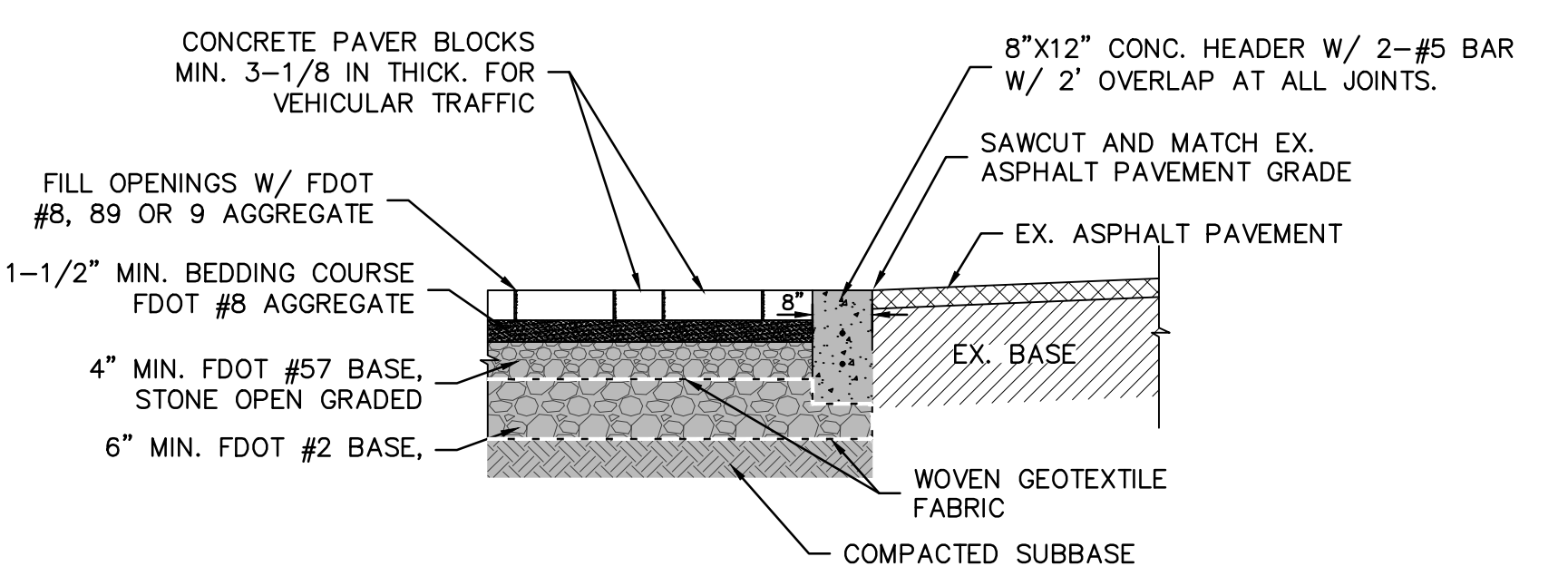
**GENERAL NOTES:**  
 1. PUBLIC SIDEWALK CURB RAMPS SHALL BE CONSTRUCTED IN THE PUBLIC RIGHT OF WAY AT LOCATIONS THAT WILL PROVIDE CONTINUOUS UNRESTRICTED PEDESTRIAN ROUTES TO ADJACENT SITES.  
 2. THE LOCATION AND ORIENTATION OF CURB RAMPS SHALL BE AS SHOWN IN THE PLANS.  
 3. CURB RAMP RUNNING SLOPES AT UNRESTRICTED SITES SHALL NOT BE STEEPER THAN 1:12 AND CROSS SLOPE SHALL BE 0.02 OR FLATTER. TRANSITION SLOPES SHALL NOT BE STEEPER THAN 1:12 WHEN ALTERING PEDESTRIAN FACILITIES WHERE EXISTING SITE DEVELOPMENT PRECLUDES THE ACCOMMODATION OF A RAMP SLOPE OF 1:12. A RUNNING SLOPE BETWEEN 1:12 AND 1:10 IS PERMITTED FOR A RISE OF 6" MAXIMUM AND A RUNNING SLOPE OF BETWEEN 1:10 AND 1:8 IS PERMITTED FOR A RISE OF 3" MAXIMUM. WHERE COMPLIANCE WITH THE REQUIREMENTS FOR A CROSS SLOPE CANNOT BE FULLY MET, THE MINIMUM FEASIBLE CROSS SLOPE SHALL BE PROVIDED. RAMP RUNNING SLOPE IS NOT REQUIRED TO EXCEED 8' IN LENGTH, EXCEPT AT SITES WHERE THE PLANS SPECIFY A GREATER LENGTH.  
 4. IF A CURB RAMP IS LOCATED WHERE PEDESTRIANS MUST WALK ACROSS THE RAMP, THEN THE WALK SHALL HAVE TRANSITION SLOPES TO THE RAMP. THE MAXIMUM SLOPE OF THE TRANSITIONS SHALL BE 1:12. RAMPS WITH CURB RETURNS MAY BE USED AT LOCATIONS WHERE OTHER IMPROVEMENTS PROVIDE GUIDANCE AWAY FROM THAT PORTION OF THE CURB PERPENDICULAR TO THE SIDEWALK; IMPROVEMENTS FOR GUIDANCE ARE NOT REQUIRED AT CURB RAMPS FOR LINEAR PEDESTRIAN TRAFFIC.  
 5. CURB RAMP DETECTABLE WARNING SURFACES SHALL EXTEND THE FULL WIDTH OF THE RAMP AND IN THE DIRECTION OF TRAVEL 24" FROM THE BACK OF THE CURB. DETECTABLE WARNING SURFACES SHALL BE VANGUARD, ARMOR TILE, OR APPROVED EQUAL.  
 6. WHERE A RAMP IS CONSTRUCTED WITHIN EXISTING CURB, CURB AND GUTTER, AND/OR SIDEWALK, THE EXISTING CURB OR CURB AND GUTTER SHALL BE REMOVED TO THE NEAREST JOINT BEYOND THE CURB TRANSITIONS OR TO THE EXTENT THAT NO REMAINING SECTION OF CURB OR WALK AROUND OR TO THE EXTENT THAT NO REMAINING SECTION OF SIDEWALK IS LESS THAN 5' LONG.  
 7. DETECTABLE WARNING SURFACE COLOR SHALL CONTRAST WITH SURROUNDING SURFACE AS DIRECTED BY CITY ENGINEER (DEFAULT COLOR IS YELLOW).



**GENERAL NOTES:**  
 1. PUBLIC SIDEWALK CURB RAMPS SHALL BE CONSTRUCTED IN THE PUBLIC RIGHT OF WAY AT LOCATIONS THAT WILL PROVIDE CONTINUOUS UNRESTRICTED PEDESTRIAN ROUTES TO ADJACENT SITES.  
 2. THE LOCATION AND ORIENTATION OF CURB RAMPS SHALL BE AS SHOWN IN THE PLANS.  
 3. CURB RAMP RUNNING SLOPES AT UNRESTRICTED SITES SHALL NOT BE STEEPER THAN 1:12 AND CROSS SLOPE SHALL BE 0.02 OR FLATTER. TRANSITION SLOPES SHALL NOT BE STEEPER THAN 1:12 WHEN ALTERING PEDESTRIAN FACILITIES WHERE EXISTING SITE DEVELOPMENT PRECLUDES THE ACCOMMODATION OF A RAMP SLOPE OF 1:12. A RUNNING SLOPE BETWEEN 1:12 AND 1:10 IS PERMITTED FOR A RISE OF 6" MAXIMUM AND A RUNNING SLOPE OF BETWEEN 1:10 AND 1:8 IS PERMITTED FOR A RISE OF 3" MAXIMUM. WHERE COMPLIANCE WITH THE REQUIREMENTS FOR A CROSS SLOPE CANNOT BE FULLY MET, THE MINIMUM FEASIBLE CROSS SLOPE SHALL BE PROVIDED. RAMP RUNNING SLOPE IS NOT REQUIRED TO EXCEED 8' IN LENGTH, EXCEPT AT SITES WHERE THE PLANS SPECIFY A GREATER LENGTH.  
 4. IF A CURB RAMP IS LOCATED WHERE PEDESTRIANS MUST WALK ACROSS THE RAMP, THEN THE WALK SHALL HAVE TRANSITION SLOPES TO THE RAMP. THE MAXIMUM SLOPE OF THE TRANSITIONS SHALL BE 1:12. RAMPS WITH CURB RETURNS MAY BE USED AT LOCATIONS WHERE OTHER IMPROVEMENTS PROVIDE GUIDANCE AWAY FROM THAT PORTION OF THE CURB PERPENDICULAR TO THE SIDEWALK; IMPROVEMENTS FOR GUIDANCE ARE NOT REQUIRED AT CURB RAMPS FOR LINEAR PEDESTRIAN TRAFFIC.  
 5. CURB RAMP DETECTABLE WARNING SURFACES SHALL EXTEND THE FULL WIDTH OF THE RAMP AND IN THE DIRECTION OF TRAVEL 24" FROM THE BACK OF THE CURB. DETECTABLE WARNING SURFACES SHALL BE VANGUARD, ARMOR TILE, OR APPROVED EQUAL.  
 6. WHERE A RAMP IS CONSTRUCTED WITHIN EXISTING CURB, CURB AND GUTTER, AND/OR SIDEWALK, THE EXISTING CURB OR CURB AND GUTTER SHALL BE REMOVED TO THE NEAREST JOINT BEYOND THE CURB TRANSITIONS OR TO THE EXTENT THAT NO REMAINING SECTION OF CURB OR WALK AROUND OR TO THE EXTENT THAT NO REMAINING SECTION OF SIDEWALK IS LESS THAN 5' LONG.  
 7. DETECTABLE WARNING SURFACE COLOR SHALL CONTRAST WITH SURROUNDING SURFACE AS DIRECTED BY CITY ENGINEER (DEFAULT COLOR IS YELLOW).

\* ALL DIMENSIONS ARE CONSIDERED MINIMUM DESIGN CONDITIONS UNLESS OTHERWISE APPROVED BY CITY ENGINEER FOR SPECIAL EXCEPTION AREAS

STANDARD DETAILS		TYPICAL SIDEWALK CURB CUT RAMPS	
	MARCH 2008	LAST MODIFIED	07/2014
NO.	DATE	REVISIONS	DETAIL NUMBER
		S-19	SHEET 2 OF 2



**NOTES:**  
 1. CONCRETE PAVERS SHALL CONFORM TO ASTM C-936 AND SPECIFICALLY DESIGNED AND CONFIGURED AS PERVIOUS PAVEMENT AND ERATED FOR VEHICULAR TRAFFIC.  
 2. DESIGN PATTERN AND COLOR TO BE APPROVED BY OWNER.

BRICK PAVERS AND HEADER DETAIL  
N.T.S.

**GENERAL NOTES**

- CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE DEPARTMENT OF TRANSPORTATION, FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, BROWARD COUNTY ENVIRONMENTAL PROTECTION AND GROWTH MANAGEMENT DEPARTMENT, BROWARD COUNTY HEALTH DEPARTMENT, FLORIDA BUILDING CODE LATEST EDITION AND ALL OTHER LOCAL AND NATIONAL CODES WHERE APPLICABLE.
- PERFORM CONSTRUCTION IN A SAFE MANNER. SPECIFICALLY, THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES SHALL BE STRICTLY OBSERVED.
- ELEVATIONS ON THE DRAWINGS OR REFERENCED IN THE SPECIFICATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929.
- THE CONTRACTOR SHALL OBTAIN THE SERVICES OF A UTILITY LOCATION SERVICE SUCH AS "SUNSHINE STATE ONE CALL OF FLA. INC." AT (800) 432-4370 AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION.
- PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION AND MATERIAL OF ALL EXISTING UTILITIES WITHIN THE AREA OF CONSTRUCTION.
- IF UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE OF A SIZE OR MATERIAL DIFFERENT FROM THAT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CORAL SPRINGS IMPROVEMENT DISTRICT.
- STANDARD SEPARATION STATEMENT:
  - MANTAIN A MINIMUM THREE (3) FOOT HORIZONTAL DISTANCE BETWEEN WATER MAINS AND VACUUM SEWER, STORM SEWER OR RECLAIMED WATER MAINS REGULATED UNDER PART II OF CHAPTER 62-610.
  - MANTAIN A MINIMUM SIX (6) FOOT HORIZONTAL DISTANCE BETWEEN WATER MAINS AND GRAVITY SEWER, PRESSURE-TYPE SANITARY SEWER OR RECLAIMED WATER MAINS NOT REGULATED UNDER PART II OF CHAPTER 62-610. THIS DISTANCE CAN BE REDUCED TO THREE (3) FOOT HORIZONTAL DISTANCE WHEN EITHER PIPE IS ENCLOSED IN A WATER-TIGHT CASING OR CONCRETE AND WHEN WATER MAINS ARE LOCATED AT LEAST SIX (6) INCHES ABOVE GRAVITY SEWER MAINS.
  - MANTAIN A MINIMUM TEN (10) FOOT HORIZONTAL DISTANCE BETWEEN WATER MAINS AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS.
  - MANTAIN SIX (6) INCH VERTICAL SEPARATION WHERE WATER MAINS CROSS ABOVE VACUUM SEWER, GRAVITY SEWER OR STORM SEWER.
  - MANTAIN A TWELVE (12) INCH VERTICAL SEPARATION WHERE WATER MAINS CROSS BELOW VACUUM SEWER, GRAVITY SEWER OR STORM SEWER.
  - MANTAIN A TWELVE (12) INCH VERTICAL SEPARATION WHERE WATER MAINS CROSS ABOVE OR BELOW PRESSURE-TYPE SANITARY SEWER FORCE MAIN OR RECLAIMED WATER MAINS.
- THE CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO LOCATE, EXCAVATE AND PREPARE FOR CONNECTIONS TO THE EXISTING SYSTEMS ALL AS SHOWN ON THE DRAWINGS. THE COST FOR THIS WORK AND FOR THE ACTUAL CONNECTION TO THE EXISTING SYSTEMS SHALL BE INCLUDED IN THE BID PRICE FOR THE PROJECT AND SHALL NOT RESULT IN ANY ADDITIONAL COST TO THE CORAL SPRINGS IMPROVEMENT DISTRICT.
- CONTRACTOR MUST PROVIDE FOR AND MAINTAIN ADEQUATE ACCESS AT ALL TIMES TO ALL BUSINESSES AND RESIDENCES AFFECTED BY PROGRESS OF THE WORK.
- PROJECT SITE SAFETY:
  - THE ENGINEER/CORAL SPRINGS IMPROVEMENT DISTRICT OR THEIR EMPLOYEES HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER THE CONTRACTOR, ANY SUB-CONTRACTOR OR OTHER ENTITY OR THEIR EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY JOB SITE HEALTH OR SAFETY PRECAUTIONS.
  - THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SITE SAFETY, AND WARRANTS THAT THIS INTENT IS MADE EVIDENT BY THE AGREEMENT BETWEEN OWNER AND CONTRACTOR.
  - ALL EXISTING OVERHEAD AND UNDERGROUND UTILITIES SHOWN ON THESE DRAWINGS OR ENCOUNTERED THROUGH THE PROGRESSION OF WORK AT THIS PROJECT SITE AREA ARE ASSUMED TO BE LIVE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS WHEN WORKING AROUND EXISTING OVERHEAD OR UNDERGROUND UTILITIES.
  - VALVE BOXES AND MANHOLE RIM ELEVATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL ADJUST VALVE BOX AND MANHOLE RIM ELEVATIONS AS REQUIRED TO MEET TYPICAL GRADES.

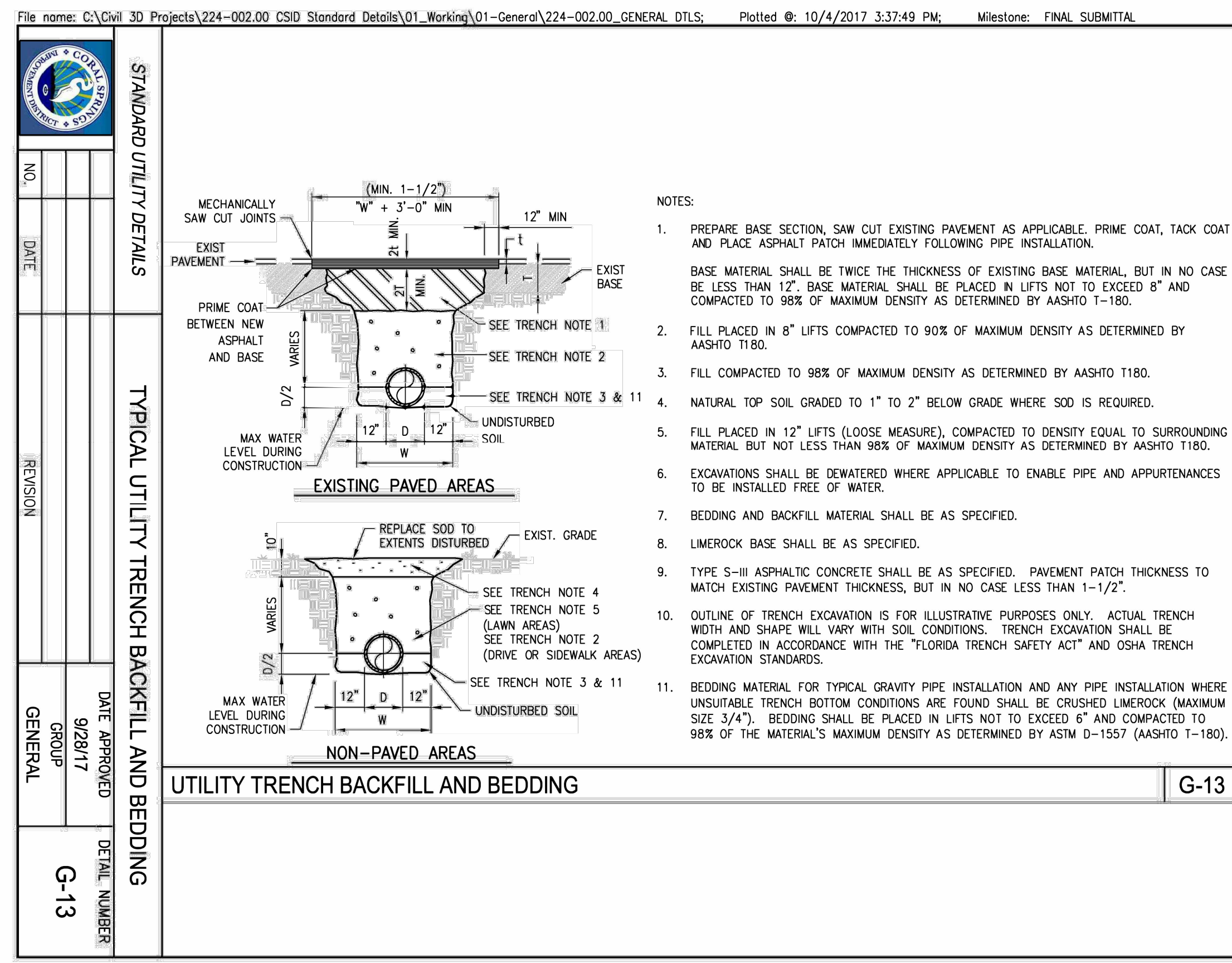
STANDARD UTILITY DETAILS		GENERAL NOTES	
	9/28/17	DATE APPROVED	9/28/17
NO.	DATE	REVISION	GENERAL
			G-01

PROPOSED UTILITY	MINIMUM HORIZONTAL AND VERTICAL SEPARATION REQUIREMENTS							
	POTABLE WATER		RECLAIMED WATER*		SANITARY SEWER GRAVITY MAIN		STORM SEWER OR SANITARY SEWER	
	HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL
POTABLE WATER	3'	12"	3'	12"	3'	12"	3'	12"
RECLAIMED WATER	3'	12"	3'	12"	3'	12"	3'	12"
SANITARY SEWER GRAVITY MAIN	6'	12" ABOVE	3'	12"	3'	12"	3'	12"
SANITARY SEWER FORCE MAIN	6'	12" ABOVE	3'	12"	3'	12"	3'	12"
FIRE HYDRANT	3'	12" ABOVE	3'	12"	3'	12"	3'	12"
STORM SEWER OR SANITARY SEWER	3'	12" ABOVE	3'	12"	3'	12"	3'	12"

**MINIMUM HORIZONTAL AND VERTICAL SEPARATION REQUIREMENTS**

- THIS TABLE REPRESENTS THE MINIMUM SEPARATION REQUIREMENTS AS DESCRIBED IN F.O.E.P. RULES FOR THE FLORIDA ADMINISTRATION CODE (F.A.C.) THESE SEPARATION REQUIREMENTS APPLY BETWEEN NEWLY PROPOSED UTILITY LINES AND EXISTING OR PROPOSED UTILITY LINES.
- FOR THE PURPOSE OF THIS TABLE RECLAIMED WATER SHALL MEAN UNRESTRICTED PUBLIC ACCESS REUSE WATER AS DEFINED BY F.A.C. 62-610. OTHER TYPES OF RECLAIMED WATER ARE CONSIDERED RAW GRADE AND SEPARATION LISTED FOR SANITARY SEWER SHALL APPLY.
- ALL SEPARATION DISTANCES ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
- THE MINIMUM HORIZONTAL SEPARATION BETWEEN POTABLE WATER AND GRAVITY SANITARY SEWER MAY BE REDUCED TO 3 FEET IF THE BOTTOM OF THE WATER MAIN IS LOCATED AT LEAST 8 INCHES ABOVE THE TOP OF THE GRAVITY SEWER.
- AT UTILITY CROSSINGS ONE FULL LENGTH OF WATER MAIN SHALL BE CENTERED ABOVE OR BELOW THE OTHER UTILITY PIPELINE MAXIMIZING THE SEPARATION OF PIPELINE JOINTS. ALTERNATIVELY, WATER MAIN JOINTS MUST BE:
  - AT LEAST 3' FROM ALL JOINTS IN VACUUM TYPE SANITARY SEWER, STORM SEWER, STORMWATER FORCE MAINS OR UNRESTRICTED PUBLIC ACCESS RECLAIMED WATER.
  - AT LEAST 6' FROM ALL JOINTS IN GRAVITY OR PRESSURE SANITARY SEWER, WATERWATER FORCE MAINS AND ALL OTHER TYPES OF RECLAIMED WATER.
- NO WATER PIPE SHALL PASS THROUGH OR BE CONSTRUCTED TOUCHING ANY PART OF A SANITARY MANHOLE OR STORM SEWER MANHOLE OR INLET STRUCTURE.
- NEW OR RELOCATED WATER MAINS AND FIRE HYDRANTS WITH UNDERGROUND DRAINS MUST BE AT LEAST 10 FEET FROM ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT SYSTEM (OSTS)" AS DEFINED IN SECTION 39.000(2), F.S., AND RULE 64E-8.002 F.A.C. EXAMPLES OF OSTIS INCLUDE SEPTIC TANKS, DRAINFIELDS AND OSEGS TRAPS.
- THE FOLLOWING ARE ACCEPTABLE ALTERNATIVE CONSTRUCTION VARIANCES WHERE IT IS NOT POSSIBLE TO MEET THE SEPARATION REQUIREMENTS, AND ARE ONLY TO BE IMPLEMENTED UPON RECEIPT OF EXPRESSED WRITTEN CONSENT FROM THE CORAL SPRINGS IMPROVEMENT DISTRICT.
  - WHERE A WATER MAIN IS BEING LAID LESS THAN THE REQUIRED MINIMUM HORIZONTAL DISTANCE AND/OR WHERE A WATER MAIN CROSSING HAS LESS THAN THE MINIMUM REQUIRED DISTANCE BETWEEN JOINTS.
  - USE OF PRESSURE RATED PIPE CONFORMING TO AWWA STANDARDS FOR A GRAVITY OR VACUUM TYPE PIPE LINE.
  - USE OF WELDED, FUSED OR OTHERWISE RETAINED JOINTS FOR EITHER PIPE.
  - USE OF WATER TIGHT CASING PIPE OR CONCRETE ENCASMENT AT LEAST 4" THICK FOR EITHER PIPE.
  - WHERE A WATER MAIN IS BEING LAID LESS THAN 3 FEET HORIZONTALLY FROM ANOTHER PIPE LINE AND/OR WHERE A WATER MAIN IS BEING LAID WITH LESS THAN THE REQUIRED MINIMUM VERTICAL SEPARATION:
    - USE OF PIPE OR CASING PIPE HAVING HIGH IMPACT STRENGTH (AT LEAST EQUAL TO 0.25" THICK D.U.P.) OR CONCRETE ENCASMENT AT LEAST 4" THICK FOR THE WATER MAIN AND THE OTHER PIPELINE IF THE OTHER PIPE LINE CONVEYS WASTEWATER OR RECLAIMED WATER.

STANDARD UTILITY DETAILS		MINIMUM HORIZONTAL AND VERTICAL SEPARATION REQUIRED	
	9/28/17	DATE APPROVED	9/28/17
NO.	DATE	REVISION	GENERAL
			G-02



STANDARD UTILITY DETAILS		MINIMUM HORIZONTAL AND VERTICAL SEPARATION REQUIRED	
	9/28/17	DATE APPROVED	9/28/17
NO.	DATE	REVISION	GENERAL
			G-13



**RECREATIONAL DESIGN & CONSTRUCTION, INC.**  
 3990 N. Powerline Rd.  
 Fort Lauderdale, FL 33309 USA  
 T: 954.566.3885  
 F: 954.566.3335  
 W: DCDesignbuild.com



FL PE # 46575  
JEFFREY S. CREWS

No.	Description	Date
1	CSID COMMENTS	3/2/22

RECREATIONAL COMMUNITY CENTER

DETAILS

Project number	018-484
Date	1/12/2022
Drawn by	SMB
Checked by	JSC

C-07  
Scale AS SHOWN

1/12/2018 12:23:30 PM

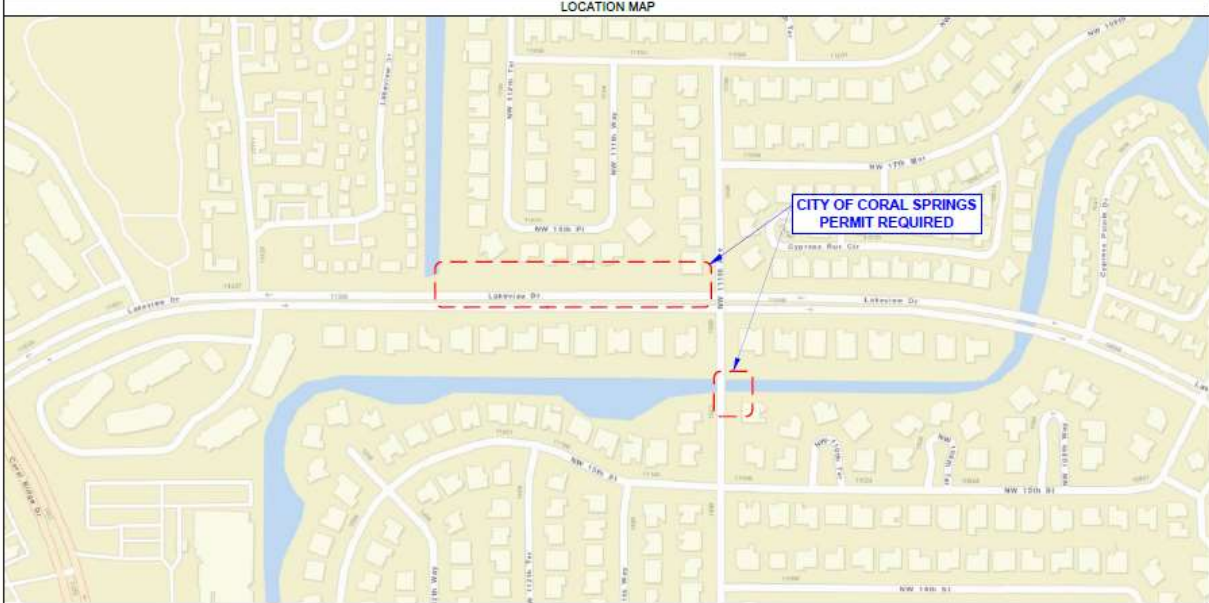


**5B**

**DESCRIPTION**

**AT&T PROPOSES TO INSTALL 804' OF CONDUIT WITHIN  
CITY OF CORAL SPRINGS RIGHT OF WAY,  
SEE PLANS FOR LOCATION.**

- CONSTRUCTION NOTES**
- RESTORE ALL SURFACES TO EQUAL OR BETTER CONDITION.
  - VERIFY ALL MEASUREMENTS AND DISTANCES.
  - MAINTAIN MINIMUM 12" SEPARATION BETWEEN PROPOSED AT&T CONDUIT & EXISTING UTILITIES.
  - NO PROPOSED RUNNING LINE CHANGES ARE TO BE DONE WITHOUT AT&T APPROVAL.
  - MAINTAIN A MIN BENDING RADIUS OF 5' ON ALL DUCT CONFIGURATION.



**BROWARD COUNTY UTILITY CONTACTS**

COMPANY	ENGINEERING & SURVEYING CONTACT	PHONE
COMCAST CABLE CATV/FIBER UTILITY	LEONARD MAXWELL - NEWBOLD	(954) 447-8428
AMERICAN TRAFFIC SOLUTIONS	SANTIAGO MARTINEZ	(407) 596-4586
FPL-FIBERNET	DANNY HASNETT	(305) 852-2631
FPL-BROWARD	ERNESTO DOMINGUEZ	(954) 561-3388
TECO PEOPLES GAS SOUTH FLORIDA	YVONNE GOLDMAN	(954) 493-0824
LEVEL3 COMMUNICATIONS	NETWORK RELATIONS	(877) 386-6344 EXT. 2
BROWARD COUNTY TRAFFIC ENGINEERING DIVISION (STC2)	ROBERT BLOUNT	(954) 547-2746
AT&T DISTRIBUTION	OTIS KEEVE, BROWARD	(954) 723-2540

- UG CONSTRUCTION NOTES:**
- RESTORE ALL SURFACES TO EQUAL OR BETTER CONDITION.
  - VERIFY ALL MEASUREMENTS AND DISTANCES.
  - MAINTAIN MINIMUM 12" SEPARATION BETWEEN PROPOSED AT&T CONDUIT & EXISTING UTILITIES.
  - NO PROPOSED RUNNING LINE CHANGES ARE TO BE DONE WITHOUT AT&T APPROVAL.
  - MAINTAIN A MIN BENDING RADIUS OF 5' ON ALL DUCT CONFIGURATION.
- EXISTING UTILITY LOCATIONS OBTAINED FROM RECORD DRAWINGS AND/OR PROVIDED BY DEVELOPMENT ENGINEER.  
**ALL FACILITIES SUBJECT TO FIELD VERIFICATION.**

## **Seventh Order of Business**





**Industrial Solutions Authority, LLC**

Agenda Page 37

530 N Third St  
Hamilton, OH 45011  
+1 5133494119  
jeff@isaelectric.com  
www.isaelectric.com

PO-2205745

**INVOICE**

**BILL TO**  
Miguel  
Coral Springs Improvement District  
10300 NW 11th Manor  
Coral Springs, FL 33071

**SHIP TO**  
Miguel  
Coral Springs Improvement District  
10300 NW 11th Manor  
Coral Springs, FL 33071

**INVOICE** 10038  
**DATE** 03/21/2022  
**TERMS** Due on receipt  
**DUE DATE** 03/21/2022

ACTIVITY	QTY	RATE	AMOUNT
VFD - Variable Frequency Drive New Surplus Allen Bradley Powerflex 753 VFD Cat: 20F1AND248ANONNNNN 18 Month Warranty Ships 1 Day ARO	1	14,649.00	14,649.00
Shipping LTL Freight	1	285.00	285.00
CC Charges 2.0% fee	1	298.00	298.00

Thank you for your business!  
Please contact us at 513-349-4119 or 513-225-9680 with any questions.

<b>PAYMENT</b>	<b>15,232.00</b>
<b>BALANCE DUE</b>	<b>\$0.00</b>
	<b>PAID</b>

**RECEIVED**  
By Robin at 2:45 pm, Mar 21, 2022

401-322-53600-46622  
deepwell-VFD Drive



**Industrial Solutions Authority, LLC**  
 530 N Third St  
 Hamilton, OH 45011  
 +1 5133494119  
 jeff@isaelectric.com  
 www.isaelectric.com

# Estimate

**ADDRESS**

Miguel  
 Coral Springs Improvement  
 District  
 10300 NW 11th Manor  
 Coral Springs, Fl 33071

**SHIP TO**

Miguel  
 Coral Springs Improvement  
 District  
 10300 NW 11th Manor  
 Coral Springs, Fl 33071

**ESTIMATE # 3379**

**DATE 03/18/2022**

ACTIVITY	QTY	RATE	AMOUNT
<b>VFD - Variable Frequency Drive</b> New Surplus Allen Bradley Powerflex 753 VFD Cat: 20F1AND248AN0NNNNN 18 Month Warranty Ships 1 Day ARO FOB Hamilton, Oh	1	14,649.00	14,649.00

**TOTAL \$14,649.00**

Accepted By

Accepted Date

*R. Hayes*  
*J. Mac*  
*J. Mac*

# **Eighth Order of Business**



SENT VIA E-MAIL: David McIntosh [mailto:davidm@fladistricts.com]

March 25, 2022

David McIntosh  
 Director of Utilities  
 Coral Springs Improvement District  
 10300 NW 11<sup>th</sup> Manor  
 Coral Springs, Florida 33071

**Subject: GIS Data updates from As Built Record Drawings**

Dear Mr. McIntosh:

Florida Technical Consultants (FTC) is pleased for the opportunity to submit this Proposal for Professional Services to assist you in updating the Utility GIS based on existing record drawings.

There are approximately 320 as built drawings, some with multiple sheets. This scope is based on 400 sheets. It is estimated that it will take 3 hrs per sheet to update the utility GIS. FTC will:

- Review each as-built
- Rubber-Sheet each as-built to property lines or aerial imagery
- Update water and sewer GIS layers
- Update attribute data including diameter and material
- Water and sanitary services laterals will not be included

All data and applications will be posted to CSID GIS Online. Hard copies of data will be provided.

The following is a schedule of positions, rates and estimated level of involvement.

Task	Project Manager	Senior GIS Consultant	GIS Technician	Fees
	\$140 / hr	\$130 / hr	\$115 / hr	
Update GIS 500 Sheets	16	40	1200	\$145,440
<b>Total Hours</b>	<b>16</b>	<b>40</b>	<b>1200</b>	<b>\$145,440</b>

The total for services will not exceed \$145,440 without additional authorizations from CSID. All services will be on an hourly basis. The CSID will be billed monthly according to the services and deliverables provided.

Should you have any questions, please do not hesitate to contact me at my office at (954) 954-8488 or send me an electronic message at [jbarton@fltechinc.com](mailto:jbarton@fltechinc.com).

Respectfully submitted,

Florida Technical Consultants  
 James Barton, P.E.  
 President

# **Ninth Order of Business**





## **TENTH ORDER OF BUSINESS**



**10A**

## **WORK AUTHORIZATION**

CSID Work Authorization 191

Globaltech No. 151314

Pursuant to the provisions contained in the "Contract for Professional Engineering Consulting and Design-Build Services on a Continuing Contract Basis " between the CORAL SPRINGS IMPROVEMENT DISTRICT, hereinafter referred to as "OWNER", and Globaltech, Inc., hereinafter referred to as "FIRM", dated July 1, 2012 (hereinafter referred to as "AGREEMENT"), this Work Authorization authorizes the FIRM to provide services under the terms and conditions set forth herein and in the AGREEMENT, which is incorporated herein by reference as though set forth in full.

The OWNER desires design-build services related to CSID North Blower Room Blower Replacement, hereinafter referred to as the "Specific Project".

### **Section 1 – Terms**

The FIRM will be defined as an individual, corporation or contractor having a direct contract with the OWNER or with any other subcontractor in the performance of a part of the work contracted for under the terms of this Work Authorization with the OWNER.

### **Section 2 – Scope of Work**

The FIRM will provide the following services in accordance with Sections 1 and 2 of the AGREEMENT:

The two (2) existing 200 HP constant-speed centrifugal-blowers in the north blower building supplying air to package plants C and D are over 30 years old (installed in 1984). The current blower control strategy is to manually throttle the blower inlet valve based on the dissolved oxygen (DO) levels in package plant C and D aeration basin. The OWNER desires to be proactive in their replacement as well

as increase operational efficiency by taking advantage of current blower control technologies to save on energy costs. The OWNER would like to replace the 200 HP units with two (2) new 200 HP centrifugal blowers. The blower packages will have new automatically actuated inlet valves, flow paced blower control trimmed by DO levels, alarm integration into SCADA, and premium efficiency motors.

The existing piping will be modified as necessary to mate the outlet/inlet flanges of the blowers to the existing piping. New inlet filter hoods will be installed. Pressure gauges will also be added to the discharge piping of each blower to verify new blower operation.

FIRM will subcontract programming necessary to integrate new blower packages into existing SCADA system.

The requested work will be completed by implementing the following three tasks:

### **Task 1 – Engineering Services**

This task includes project management and engineering services required to complete the project.

#### **Engineering and Project Management**

1. Meet with the OWNER to review the project scope and collect information. Collect pre-construction photographs.
2. The FIRM will collect and verify site dimensions and data (pressures and flows) necessary to install the new blower packages. Once final submittal drawings are obtained from the manufacturer, the location/orientation may need to be adjusted to accommodate final dimensions.
3. Design drawings will be prepared by FIRM and reviewed by OWNER. A courtesy notice of commencement letter will be submitted to the City of

Coral Springs Building Department. At this time no building modifications are expected.

4. Prepare detailed construction schedule to include as a minimum; design, site mobilization, detailed construction activities, scheduled shut downs and durations, equipment/material delivery times, testing, and startup and commissioning.
5. Coordinate material and equipment purchase. FIRM will be present to receive equipment deliveries.
6. Review, administer, and track equipment submittals.
7. Schedule and conduct meetings, inspections, and testing with OWNER's staff.
8. Coordinate with OWNER's SCADA group to determine what signals will be provided to SCADA. FIRM will submit a list of proposed SCADA signals for OWNER to review.
9. Attend progress meetings and coordination meetings.
10. Conduct start-up services for the new blower system with the blower factory representative.
11. Prepare Record Drawings illustrating the blower packages, and electrical improvements.
12. Provide OWNER with Operation and Maintenance (O&M) for blower packages.

## **Task 2 – Construction Services**

Construction Services consist of the following tasks:

### **Task 2 – Installation of Two (2) New 200 HP Blower Packages**

1. Perform Install of flexible bellows, inlet valves, and pressure gauges. Prefabricate stainless spool pieces as necessary to minimize shutdown time. FIRM to identify shelf-life of bellows coupling should OWNER choose to purchase extra for inventory.
2. Install new filter hoods located on roof. Flash into existing roof membrane. Modify inlet piping as necessary to install new blowers.

3. Install electrical improvements in the electrical room adjacent to Package Plant D necessary for the installation of the new blowers.
4. Demolish the existing blowers Install new blowers, one at a time.
5. Assist with integration into SCADA and perform blower startup.

### **Assumptions**

Assumptions for the project are as follows:

- FIRM is not responsible for obtaining planning or zoning permits for this work as it is a maintenance replacement. OWNER will provide assistance in expediting applicable agencies where possible.
- OWNER to ensure that existing mass air flow meters are properly calibrated so a blower duty point can be confirmed. If flow meters cannot be calibrated, OWNER to replace.
- No blower slab modification will be required for this project. Preliminary equipment submittals were reviewed and the existing equipment slabs were deemed sufficient. Final equipment submittals will determine final blower slab sizing requirements.
- Equipment costs are firm for 30 days following NTP (assumed April 18, 2022). FIRM may revisit equipment costs if not approved by the assumed date.
- Blowers will be removed and replaced one at a time. Plant down time to make piping connections will be less than four (4) hours.
- Waste disposal to be provided by OWNER. FIRM will place waste materials generated from this job into dumpsters identified by OWNER.
- No painting, coatings or finishes (coatings) are included. All coatings (if needed) to be provided by OWNER.
- The existing DO sensors provide an acceptable signal to SCADA that is available for blower control.
- The existing package plant flow meters provide a signal to SCADA that is available for blower control.

- Construction duration is assumed to be 16 weeks. Administrative charges associated with grant and Davis-Bacon reporting are budgeted accordingly.
- FIRM will comply with the supplemental federal contract provisions included in **Attachment A**.
- An allowance of \$25,000 is included with this project. Allowance is only to be accessed with OWNER's written approval. Unused portion of allowance to be credited back to OWNER. Allowance is in place for use at the OWNER's discretion.
- Existing soft starts are in acceptable condition and will be reused.

### **Section 3 – Location**

The services to be performed by the FIRM will be on the following site or sites:

#### **CSID WWTP North Blower Building**

### **Section 4 – Deliverables**

The FIRM will provide the following Deliverables to OWNER:

- Engineered Design Draft and Final Draft drawings for the new blower system and electrical equipment
- Reviewed submittals for new equipment (blower packages, electrical equipment, valves, instrumentation)
- Proposed list of SCADA signals
- Construction of Improvements
- Record Drawings and O&M Manual for blower system.

### **Section 5 – Time of Performance**

Project will commence after execution of this Work Authorization and a Notice to Proceed is issued by OWNER. The FIRM and OWNER agree to the following schedule:

<b>Task</b>	<b>Time Elapsed to Subtask Completion</b>
Notice to Proceed (NTP)	0 Days
PO issued for new blower packages	30 days after NTP
Delivery of new blower packages	32 weeks after NTP
Engineering Design Draft	90 days after NTP
Engineering Final Draft	120 days after NTP
Substantial Completion	16 weeks after delivery of new blower packages
Final Completion	10 days after Substantial Completion

### **Section 6 – Method and Amount of Compensation**

1. The FIRM will be paid by the OWNER in accordance with the Florida's Prompt Payment Act Florida Statute 218.70-79 and in accordance with the payment method as set forth in Section 6 of the AGREEMENT. The calculations will begin using the date the invoice was received.
2. Total job price: **\$ 919,363.63**
3. On the terms contained in the FIRM's said proposal for the doing of said work and the said award therefore, and the specifications herein specifically referred to and made a part of this contract.
4. The cost for the above scope of services is a lump sum (LS). The LS is based on the materials, methods, and assumptions presented in the scope of services and may be adjusted based on final detail design and alternative selections or omissions. The LS will not be greater than the stated amount unless there is an approved increase in the scope of services.
5. A Budget Summary for the above LS is provided in **Attachment B**.

### **Section 7 – Application for Progress Payment**

1. Unless otherwise prescribed by law, at the end of each month, the FIRM will submit to the OWNER for review, an Application for Progress Payment filled out and signed by the FIRM covering the Work completed as of the date of the Application and accompanied by such supporting documentation as is required by the AGREEMENT.

2. The Application for Progress Payment will identify the amount of the FIRM Total Earnings to Date based upon value of original contract Work performed to date as approved by fully executed Change Orders.
3. Payment will be based upon percentage of work completed based upon the approved schedule of values. Retainage in the amount of 10% will be withheld on the calculated value of any work, with the exception of stored materials which may be paid at the supplier's invoiced cost. At FIRM's request, after 50% completion of the work has been achieved, the OWNER will implement a reduction in retainage to 5% of all future pay requests. If retainage is reduced, FIRM may not withhold more than 5% retainage from subcontractors or suppliers and will be required to certify compliance with F.S. 218.70 *et seq* on each subsequent pay application. Notwithstanding the foregoing, in no instance can the amount retained be less than the value of OWNER's good faith claims plus the value of the work the OWNER determines remains to be put in place or required to be performed as remedial activities. For the purposes of this section, 50% completion will be that point in time when OWNER determines that half of the Work required by the Contract has been completed. In no event will the Work be determined to be 50% completed before the OWNER has paid 50% of the Contract amount and 50% of the Contract time has expired. The amount of previous Pay Estimate payments will then be subtracted to equal the Balance Due during the Pay Estimate period.
4. When the OWNER determines the Work to be Substantially Complete, the OWNER may reduce the retainage to five percent (5%) of the dollar value of all Work satisfactorily completed to date, provided that the FIRM is making satisfactory progress toward Final Completion of the Work, that in the opinion of both the Engineer and the OWNER there is no specific cause for a greater retainage, and the FIRM obtains the written consent of the Surety Companies furnishing the required Public Construction Bond on consent forms provided by the OWNER. The OWNER may reinstate the retainage up to ten percent (10%) if the OWNER determines, at its



- discretion or the Engineer's discretion, that the FIRM is not making satisfactory progress toward final completion of the Work or where there is other specific cause for such withholding.
5. Partial payment may be made for the delivered cost of stored materials planned for incorporation into the Work, provided such materials meet the requirements of this Contract, the Contract Drawings, and the Specifications, and are delivered and suitably stored at the project site, or at another location acceptable to the OWNER. Such material must be stored in a secure manor acceptable to the OWNER, and in accordance with the manufacturer's recommendations.
  6. The delivered cost of such stored or stockpiled materials may be included in any subsequent application for payment provided the FIRM meets the following conditions:
    - a. An applicable purchase order or supplier's invoice is provided listing the materials in detail, the cost of each item, and identifies this specific contract by name.
    - b. The materials are fully insured against loss or damage (from whatever source) or disappearance prior to incorporation into the Work.
    - c. Stored materials approved for payment by the OWNER will not be removed from the designated storage area except for incorporation into the Work.
    - d. Evidence that the FIRM has verified quantity and quality of the materials delivered (verified packing list).
  7. It is further agreed between the parties that the transfer of title and the OWNER's payment for any stored or stockpiled materials pursuant to these General Conditions, and any applicable provisions of the Supplementary General Conditions, will in no way relieve the FIRM of the responsibility of ensuring the correctness of those materials and for furnishing and placing such materials in accordance with the

requirements of this Contract, the Contract Drawings, the Technical Specifications, and any approved changes thereto.

8. The following monthly Application for Progress Payment will be accompanied by Bills of Sale, copies of paid invoices, releases of lien, or other documentation warranting that the FIRM has received the stored materials and equipment free and clear of all liens, charges, security interests, and encumbrances (which are hereinafter in these General Conditions referred to as "Liens") and evidence that the stored materials and equipment are covered by appropriate property insurance and other arrangements to protect the OWNER's interest therein, all of which will be satisfactory to the OWNER.
9. The FIRM will warrant and guarantee that title to all Work, materials, and equipment covered by an Application for Progress Payment, whether incorporated in the Work or not, will pass to the OWNER no later than the time of Final Payment free and clear of all liens or other encumbrances.
10. The Engineer will, within ten (10) days after receipt of each Application for Progress Payment, either indicate in writing a recommendation of payment and present the Application to the OWNER, or return the Application to the FIRM indicating in writing the Engineer's reasons for refusing to recommend payment. In the latter case, the FIRM may make the necessary corrections and resubmit the Application. Twenty (20) days after presentation of the application for progress payment to the OWNER with the Engineer's recommendation, the amount approved will (subject to the provisions of the following Paragraph) become due and when due will be paid by the OWNER to the FIRM.

In the event any dispute with respect to any payment or pay request cannot be resolved between the Contractor and Owner's project staff, Contractor may, in accordance with the alternative dispute resolution requirements of Florida Statute section 218.72, *et seq*, demand in writing a meeting with and review by the OWNER'S (agency) director. In the

absence of the agency director, a deputy director may conduct the meeting and review. Such meeting and review will occur within ten (10) business days of receipt by OWNER of FIRM's written demand. The OWNER's manager, will issue a written decision on the dispute within ten (10) business days of such meeting. This decision will be deemed the OWNER's final decision for the purposes of the Local Government Prompt Payment Act.

11. The OWNER may refuse to make payment of the full amount recommended by the Engineer because claims have been made against the OWNER on account of the FIRM's performance of the Work, or because Liens have been filed in connection with the Work, or there are other items entitling the OWNER to a credit against the amount recommended, but the OWNER must give the FIRM written notice within twenty (20) business days after the date on which the invoice is stamped as received (with a copy to the Engineer) which specifies the invoice deficiency and any action necessary to make the invoice complete and proper.

### **Section 8 – Responsibilities**

The FIRM will, under no circumstance, look to the OWNER to provide any labor or equipment for the FIRM. The FIRM will provide all of the labor and equipment necessary to perform the job or services contracted for at the expense of the FIRM. Property of any kind that may be on the premises, which are the site of the performance of this contract, during the performance of this Work Authorization, will be at the sole risk of the FIRM.

- 8.1** The OWNER hereby designates Tom Kedrierski as the OWNER's representative.
- 8.2** In addition to applicable provisions of Section 2 of the AGREEMENT, the OWNER will:

- Provide copies of existing drawings and equipment cut sheets if requested by FIRM
- Pay for any required permit fees

The FIRM acknowledges and understands that it is an independent contractor in its relationship with the OWNER. The FIRM hereby designates Rick Olson as the FIRM's representative.

### **Section 9 – Insurance**

The FIRM will provide certificate of insurance to the OWNER setting forth the type and amount of insurance carried by the FIRM and conforming to the minimum requirements set forth in the AGREEMENT.

### **Section 10 – Level of Service**

The OWNER will have the right to terminate said Agreement by giving the FIRM thirty (30) days written notice if the service that is being provided is not maintained at levels necessary to provide the required service. The OWNER will determine in its sole judgment what constitutes a satisfactory level of service.

### **Section 11 – Indemnification**

The Firm will indemnify and hold harmless the Owner and its officers and employees as set forth in Section 11 of the Agreement.

IN WITNESS WHEREOF, this Work Authorization, consisting of twelve (12) pages and Attachment A has been caused fully executed on behalf of the FIRM by its duly authorized officer, and the OWNER has the same to be duly named and in its behalf, effective as of the date herein above written.

**CORAL SPRINGS IMPROVEMENT DISTRICT**

\_\_\_\_\_  
Signature of Witness

\_\_\_\_\_  
Signature of President

\_\_\_\_\_  
Printed name of Witness

Dr. Marty Shank  
Printed Name of President

\_\_\_\_\_  
Date

Approved as to form and legality

\_\_\_\_\_  
District Counsel

State of Florida  
County of Palm Beach

**FIRM**  
Globaltech, Inc.

The foregoing instrument was  
acknowledged before me on this

\_\_\_ day of \_\_\_\_\_, 2022 by

David A., Schuman, P.E.

\_\_\_\_\_  
Signature

David A. Schuman, P.E., Vice President  
Name and Title (typed or printed)

who is personally known to me OR  
produced \_\_\_\_\_  
as identification.

April 18, 2022  
Date

\_\_\_\_\_  
Signature of Notary

# **Attachment A**

## **Federal Contract Provisions**



ADAM H. PUTNAM  
COMMISSIONER

Florida Department of Agriculture and Consumer Services  
Office of Energy

**ATTACHMENT A**  
**FEDERAL FUNDING GRANTEE, SUBGRANTEE AND**  
**CONTRACTORS PROVISIONS**

**PURSUANT TO**  
**UNITED STATES DEPARTMENT OF ENERGY AWARDS**

All subgrants and contracts awarded by the Grantee, including small purchases, shall contain the following provisions as applicable:

1. **Equal Employment Opportunity** - All contracts shall contain a provision requiring compliance with E.O. 11246, "Equal Employment Opportunity," as amended by E.O. 11375, "Amending Executive Order 11246 Relating to Equal Employment Opportunity," and as supplemented by regulations at 41 CFR part 60, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor."
2. **Copeland "Anti-Kickback" Act (18 U.S.C. 874 and 40 U.S.C. 276c)** - All contracts and subgrants in excess of \$2,000 for construction or repair awarded by recipients and subrecipients shall include a provision for compliance with the Copeland "Anti-Kickback" Act (18 U.S.C. 874), as supplemented by Department of Labor regulations (29 CFR part 3, "Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States"). The Act provides that each contractor or subrecipient shall be prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he is otherwise entitled. The recipient shall report all suspected or reported violations to the Federal awarding agency.
3. **Davis-Bacon Act, as amended (40 U.S.C. 276a to a-7)** - When required by Federal program legislation, all construction contracts awarded by the recipients and subrecipients of more than \$2,000 shall include a provision for compliance with the Davis-Bacon Act (40 U.S.C. 276a to a-7) and as supplemented by Department of Labor regulations (29 CFR part 5, "Labor Standards Provisions Applicable to Contracts Governing Federally Financed and Assisted Construction"). Under this Act, contractors shall be required to pay wages to laborers and mechanics at a rate not less than the minimum wages specified in a wage determination made by the Secretary of Labor. In addition, contractors shall be required to pay wages not less than once a week. The recipient shall place a copy of the current prevailing wage determination issued by the Department of Labor in each solicitation and the award of a contract shall be conditioned upon the acceptance of the wage determination. The recipient shall report all suspected or reported violations to the Federal awarding agency.
4. **Contract Work Hours and Safety Standards Act (40 U.S.C. 327-333)** - Where applicable, all contracts awarded by recipients in excess of \$2000 for construction contracts and in excess of \$2,500 for other contracts that involve the employment of mechanics or laborers shall include a provision for compliance with Sections 102 and 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 327-333), as supplemented by Department of Labor regulations (29 CFR part 5). Under Section 102 of the Act, each contractor shall be required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than 1 ½ times the basic rate of pay for all hours worked in excess of 40 hours in the work week. Section 107 of the Act is applicable to construction work and provides that no laborer or mechanic shall be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.
5. **Rights to Inventions Made Under a Contract or Agreement** - Contracts or agreements for the performance of experimental, developmental, or research work shall provide for the rights of the Federal Government and the recipient in any resulting invention in accordance with 10 CFR part 600.325, "Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," and any implementing regulations issued by the awarding agency.
6. **Clean Air Act (42 U.S.C. 7401 et seq.), and the Federal Water Pollution Control Act (33 U.S.C. 1251 et seq.), as amended** - Contracts and subgrants of amounts in excess of \$100,000 shall contain a provision that requires the recipient to agree to comply with all applicable standards, orders or regulations issued pursuant to



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- the Clean Air Act (42 U.S.C. 7401 et seq.) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251 et seq.). Violations shall be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA).
7. **Byrd Anti-Lobbying Amendment (31 U.S.C. 1352)** - Contractors who apply or bid for an award of \$100,000 or more shall file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier shall also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the recipient.
  8. **Debarment and Suspension (E.O.s 12549 and 12689)** - No contract shall be made to parties listed on the General Services Administration's List of Parties Excluded from Federal Procurement or Nonprocurement Programs in accordance with E.O.s 12549 and 12689, "Debarment and Suspension." This list contains the names of parties debarred, suspended, or otherwise excluded by agencies, and contractors declared ineligible under statutory or regulatory authority other than E.O. 12549. Contractors with awards that exceed the small purchase threshold shall provide the required certification regarding its exclusion status and that of its principal employees.
  9. **Section 508 of the Federal Water Pollution Control Act, as amended (33 U.S.C. 1368) and Section 1424(e) of the Safe Drinking Water Act, (42 U.S.C. 300h-3(e))** - Contracts and subgrants of amounts in excess of \$100,000 shall contain a provision that requires the recipient to agree to comply with all applicable standards, orders or regulations issued pursuant to Section 508 of the Federal Water Pollution Control Act, as amended (33 U.S.C. 1368) and Section 1424(e) of the Safe Drinking Water Act, (42 U.S.C. 300h-3(e)). Violations shall be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA).
  10. **Compliance with all Federal statutes relating to nondiscrimination.** These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of sex; (b) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 795), which prohibits discrimination on the basis of handicaps; (c) the Age Discrimination Act of 1975, as amended (42 U.S.C. 6101-6107), which prohibits discrimination on the basis of age; (d) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (e) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (f) Sections 523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. 290 dd-3 and 290 ee-3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (g) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. 3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (h) any other nondiscrimination provisions in the specific statute(s) made; and, (i) the requirements of any other nondiscrimination statute(s) which may apply.
  11. **Compliance with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646)** which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
  12. **Compliance with the provision of the Hatch Act (5 U.S.C. 1501 – 1508 and 7324 – 7328)** which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.





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13. **Comply, if applicable, with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234)** which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.
14. **Compliance with environmental standards which may be prescribed to the following:** (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EP 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplain in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. 1451 et seq.); (f) conformity of Federal actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. 7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended, (P.L. 93-523); and (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).
15. **Compliance with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. 1271 et seq.)** related to protecting components or potential components of the national wild and scenic rivers system.
16. **Compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. 470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. 469a-1 et seq.)**
17. **Compliance with P.L. 93-348** regarding the protection of human subjects involved in research, development, and related activities supported by this award of assistance.
18. **Compliance with the Laboratory Animal Welfare Act of 1966 (P.L. 89-544, as amended, 7 U.S.C. 2131 et seq.)** pertaining to the care, handling, and treatment of warm blooded animals held for research, teaching, or other activities supported by this Agreement.
19. **Compliance with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. 4801 et seq.)** which prohibits the use of lead based paint in construction or rehabilitation of residence structures.
20. **Compliance with the mandatory standards and policies relating to energy efficiency which are contained in the State energy conservation plan issued in accordance with the Energy Policy and Conservation Act (Pub. L. 94-163, 89 Stat. 871).**
21. **Assist the Commission in complying with the State Energy Conservation Program as described in the Code of Federal Regulations, Title 10, Parts 420 and 450 and guidance issued by the U.S. Department of Energy and subsequent guidance issued by the U.S. Department of Energy; the Financial Assistance Rules described in Title 10, Part 600, as well as those regulations concerning the use of oil overcharge recovery funds.**
22. **The Commission reserves the right to transfer equipment acquired under this grant as provided in Title 10, Part 600.117. The Recipient can obtain a release of this right upon application containing certain commitments.**
23. **Compliance with the Buy American Act (41 U.S.C. 10a-10c)** By accepting funds under this Agreement, the Grantee agrees to comply with sections 2 through 4 of the Act of March 3, 1933, popularly known as the "Buy American Act." The Grantee should review the provisions of the Act to ensure that expenditures made under this Agreement are in accordance with it. It is the sense of the Congress that, to the greatest extent practicable, all equipment and products purchased with funds made available under this Agreement should be American-made.
24. **Preservation of open and competition and government neutrality towards contractors' labor relations on federally funded construction projects**



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- a. Unless in conflict with State or local laws, you must ensure that bid specifications, project agreement, or other controlling documents in construction contracts awarded pursuant to this agreement, or pursuant to a subaward to this agreement, do not:
1. Require or prohibit bidders, offerors, contractors, or subcontractors to enter into or adhere to agreements with one or more labor organizations, on the same or other related construction project(s); or
  2. Otherwise discriminate against bidders, offerors, contractors, or subcontractors for becoming or refusing to become or remain signatories or otherwise to adhere to agreements with one or more labor organizations, on the same or other related construction project(s).
- b. The term “construction contract” as used in this provision means any contract for the construction, rehabilitation, alteration, conversion, extension, or repair of buildings, highways, or other improvements to real property.
- c. Nothing in this provision prohibits bidders, offerors, contractors, or subcontractors from voluntarily entering into agreements with labor organizations.
25. **Compliance with the provision included in Title XV and Title XVI of Public Law 111-5, the American Recovery and Reinvestment Act of 2009.**
  26. **Segregation of Costs** – Recipients must segregate the obligations and expenditures related to funding under the Recovery Act. Financial and accounting systems should be revised as necessary to segregate, track, and maintain these funds apart and separate from other revenue streams. No part of the funds from the Recovery Act shall be commingled with any other funds or used for a purpose other than that of making payments for costs allowable for Recovery Act projects.
  27. **False Claims Act** – Recipient and sub-recipients shall promptly refer to the DOE or other appropriate Inspector General any credible evidence that a principle, employee, agent, contractor, sub-grantee, subcontractor, or other person has submitted a false claim under the False Claims Act or has committed a criminal or civil violation of laws pertaining to fraud, conflict of interest, bribery, gratuity or similar misconduct involving those funds.
  28. **Retention of Records:** CONTRACTOR shall retain all records relating to this contract for six (5) years after CITY makes final payment and all other pending matters are closed.
  29. Compliance with Section 103 and 107 of the contract Work Hours and Safety Standards Act
  30. **Access to Records:** CITY, the Florida Department of Agriculture, the U.S. Department of Energy, the Comptroller General of the United States, and any of their duly authorized representatives, shall have access to any books, documents, papers, and records of CONTRACTOR which are directly pertinent to this contract for the purpose of making audit, examination, excerpts, and transcriptions.
  31. Compliance with Section 287.133(2)(a) Public Entity Crimes
  32. Immigration and Nationality Act (Section 274A(e)), if applicable

## **Attachment B**

### **Budget Summary**



# Takeoff Worksheet

04/07/22

**Coral Springs Improvement Dist  
151314 CSID Blower Replacement**

Assembly#	Part#	Description	Unit	Quantity	Ext. Price
<b>Job: 151314 CSID Blower Replacement</b>					
	<b>Bid Item: 1</b>	<b>General Requirements</b>			
		General Conditions			
		Submittal Labor	HR	20.00	2,180.00
		O&M Manual	HR	20.00	2,180.00
		Progress Meetings	HR	40.00	6,240.00
		Project Estimating	HR	80.00	8,080.00
		Construction Scheduler	HR	20.00	2,100.00
		Construction PM	HR	140.00	21,840.00
		Purchasing & Subcontract	HR	60.00	7,740.00
		Bldg Permits Application & Coordination	HR	20.00	2,180.00
		Construction Assistant	HR	100.00	9,500.00
				<b>Bid Item Totals:</b>	<b>62,040.00</b>
	<b>Bid Item: 2</b>	<b>Sitework</b>			
		MOB/DEMOB	LOT	1.00	9,400.00
		Job Site Office Supplies	LOT	1.00	615.25
		Sanitary	MONTH	5.00	1,476.60
		Demo Blowers, Piping & Hoods	CR-D	7.00	14,000.00
		Startup Crew	CR-D	2.00	4,000.00
		Punch Out Crew	CR-D	3.00	6,000.00
				<b>Bid Item Totals:</b>	<b>35,491.85</b>
	<b>Bid Item: 3</b>	<b>Concrete</b>			
		Concrete Slab Repair	LOT	1.00	615.25

Takeoff Worksheet

04/07/22

Continued...

Assembly#	Part#	Description	Unit	Quantity	Ext. Price
		Materials	LOT	1.00	246.10
		Installation	CR-D	1.00	2,000.00
				<b>Bid Item Totals:</b>	<b>2,861.35</b>
<b>Bid Item:</b>	<b>5</b>	<b>Metals</b>			
		Blower Piping Mods	LOT	1.00	54,267.36
		Misc Metals & Fasteners	LOT	1.00	3,691.50
		Installation	CR-D	1.00	2,000.00
				<b>Bid Item Totals:</b>	<b>59,958.86</b>
<b>Bid Item:</b>	<b>7</b>	<b>Thermal &amp; Moisture Protection</b>			
		Roof Intake Flashing	EA	3.00	7,190.40
				<b>Bid Item Totals:</b>	<b>7,190.40</b>
<b>Bid Item:</b>	<b>11</b>	<b>Equipment</b>			
		Blower	LOT	1.00	469,371.34
		Unloading & Staging	CR-D	1.00	2,000.00
		Installation	CR-D	10.00	20,000.00
		Construction Superintendent	HR	50.00	5,050.00
				<b>Bid Item Totals:</b>	<b>496,421.34</b>
<b>Bid Item:</b>	<b>17</b>	<b>I&amp;C</b>			
		Programming	LOT	1.00	13,104.00
		Fiber Optic Cable & Misc Materials	LOT	1.00	4,306.75
		Installation & Termination	HR	20.00	2,200.00
				<b>Bid Item Totals:</b>	<b>19,610.75</b>
<b>Bid Item:</b>	<b>26</b>	<b>Electrical</b>			
		Electrical Sub	LOT	1.00	104,048.00
		Electrical PM	HR	80.00	8,800.00
				<b>Bid Item Totals:</b>	<b>112,848.00</b>
<b>Bid Item:</b>	<b>41</b>	<b>Rental Equipment &amp; Misc Tools</b>			
		Scissor Lift	Month	1.00	1,107.45
		Skid Steer W/ Forks	Month	1.00	2,707.10

Takeoff Worksheet

04/07/22

Continued...

Assembly#	Part#	Description	Unit	Quantity	Ext. Price
		Traversing Fork Lift	Month	1.00	5,967.93
		Misc Tools & equipment	LOT	1.00	2,461.00
		Equipment Fuel	GAL	60.00	476.10
		Safety Equipment	LOT	1.00	430.68
		Safety	HR	4.00	624.00
		Equipment Delivery & Pickup	EA	2.00	1,107.45
				<b>Bid Item Totals:</b>	<b>14,881.71</b>
<b>Bid Item:</b>	<b>100</b>	<b>Engineering</b>			
		Engineering Fee	LOT	1.00	63,756.00
				<b>Bid Item Totals:</b>	<b>63,756.00</b>
<b>Bid Item:</b>	<b>101</b>	<b>Allowance</b>			
		Allowance	LOT	1.00	25,000.00
				<b>Bid Item Totals:</b>	<b>25,000.00</b>
<b>Bid Item:</b>	<b>102</b>	<b>Bonds &amp; Insurance</b>			
		Bonds & Certifications	LOT	1.00	19,303.37
				<b>Bid Item Totals:</b>	<b>19,303.37</b>
				<b>Grand Totals:</b>	<b>919,363.63</b>



**10B.**



## **WORK AUTHORIZATION**

CSID WA # 201

Globaltech No. 151364

Pursuant to the provisions contained in the "Contract for Professional Engineering Consulting and Design-Build Services on a Continuing Contract Basis " between the CORAL SPRINGS IMPROVEMENT DISTRICT, hereinafter referred to as "OWNER", and Globaltech, Inc., hereinafter referred to as "FIRM", dated July 1, 2012 (hereinafter referred to as "AGREEMENT"), this Work Authorization authorizes the FIRM to provide services under the terms and conditions set forth herein and in the AGREEMENT, which is incorporated herein by reference as though set forth in full.

The OWNER desires engineering consulting services related to the Site 15 - Canal Bank Assessment and Design, hereinafter referred to as the "Specific Project".

### **Section 1 – Terms**

The FIRM shall be defined as an individual, corporation or contractor having a direct contract with the OWNER or with any other subcontractor in the performance of a part of the work contracted for under the terms of this Work Authorization with the OWNER.

### **Section 2 – Scope of Work**

The FIRM will provide the following services in accordance with the AGREEMENT:

OWNER has identified a specific area (Site 15) where canal bank erosion and deterioration has become a concern. In this area, erosion has occurred to such an extent, that the water's surface has encroached onto private property and/or insufficient right-of-way is left for OWNER to maintain the canal. The OWNER has requested that the FIRM prepare an assessment of the subject properties that will include an investigation of the affected

canal banks, a design to remediate the problematic conditions, and preparation of an approximate cost to complete the proposed remediation. For this project, the assessment and design have been combined so that a more accurate construction cost estimate can be prepared. If at the end of the assessment phase, it is deemed that remediation is not needed, FIRM will not prepare the design and will return unspent funding. In its current form, the project will be accomplished by executing the following seven tasks:

### **Task 1 – Project Management and Coordination**

FIRM will attend up one (1) meeting with OWNER to obtain available data and to coordinate applicable project issues and goals. FIRM will obtain aerial photographs and property appraiser data from Broward County to develop project specific base maps.

FIRM will conduct a field reconnaissance assessment of the subject site identified by OWNER from the canal bank and from the water with the assistance of OWNER. After the site visit, field data will be cataloged and documented along with site photographs.

### **Task 2 – Canal Surveying and Mapping**

FIRM will prepare a scope of work and subcontract with Avirom and Associates Surveyors, Inc. (Avirom). FIRM will coordinate work with Avirom, the OWNER and the individual property owners to ensure that the required, requested survey data is obtained. Subcontractor will identify and stake the rear property line for the 32 properties, prepare cross-sections at each property lines and at the mid-property locations (approximately 35-foot intervals). Cross sections will collect vertical elevations at 5-foot intervals from 15-feet within the private property to the water's surface. All elevations will be referenced to NGVD 1929 vertical datum. FIRM will use survey data to prepare cross sectional designs for right-of-way remediation and plan drawings. In addition,

subcontractor will locate and plot the locations of landscaping and structures located within the CSID Canal Right-of-Way.

### **Task 3 – Subsurface Exploration**

FIRM will prepare a scope of work for a geotechnical engineering / testing firm to conduct a subsurface investigation at the subject site. FIRM will subcontract with a geotechnical engineering / testing firm and will coordinate work between OWNER, subcontractor and adjacent home owners. Subcontractor will review existing subsurface data, cross sections and dive team data related to site determine site conditions and influence of erosion and roots on canal bank. Subcontractor will perform hand penetrometer assessment to reveal the locations of voids, subsidence, extensive voids and root matts from the surrounding trees.

### **Task 4 – Canal Bank Dive Inspection**

FIRM will prepare a scope of work to conduct an underwater dive inspection of the entire canal bank. FIRM will subcontract with Industrial Divers Corporation (IDC) and will coordinate work between OWNER, IDC and adjacent home owners. A three-person dive team will inspect the submerged shoreline and canal bank from water line to the mid-point of the canal (approximately 25 feet). Cross sections will be extensions of those prepared by the land surveyor and extend from the water's edge to the mid-point of the canal. Canal depths will be collected along each cross-section at 5-foot intervals. Each cross-section will include the depth of the toe and the horizontal distance of the toe of the slope from the water line which will provide the submerged slope. Any overhanging limestone ledges will be measured for horizontal extend, the depth of the undermining measured with a grade rod and the location of the center of the greatest extent of undermining delineated with an additional cross-section location. FIRM will review collected data and will ensure that the required, requested data is gathered. FIRM will compile information provided by IDC and will use this

information to prepare sketches of the observations for **Report of Findings** (Task 5).

### **Task 5 – Site 9 – Report of Findings**

Firm will use the information collected in Tasks 1 – 4 to prepare a Draft – Site 15 Report of Findings. The report will present the following information:

- Executive Summary
- Summary of collected data (available data, field assessment, planning level survey, geotechnical investigation, and diving inspection)
- Documentation of existing conditions of the canal bank at Site 15
- Categorization of the level of canal bank stability in terms of canal slope conditions and need for stabilization
- Proposed method of canal stabilization in areas that require remedial action

Following review by the OWNER, FIRM will request a meeting with OWNER to review the findings of the assessment and the need to move forward with remediation design. Three copies of the FINAL Report will be submitted that incorporates the OWNER's comments and locations requiring bank reconstruction. FIRM will then summarize the results of the **Report of Findings** in a presentation to the Board.

### **Task 6 – Canal Bank Stabilization Engineering and Design**

Based on the information collected during the first four tasks, FIRM will prepare construction plans with details and specification notes to implement canal bank stabilization at Site 15. The construction plans will be executed to a level necessary to complete work (sufficient to be executed by the FIRM) and will include the following sheets (27 total sheets):

- Cover Sheet (1 sheet)
- General Notes and Legend (1 sheet)
- Typical Section Sheets (1 sheets)
- Plan Sheets (6 sheets)
- Cross Section Sheets (16 sheets)
- Detail Sheets (1 sheets)
- Pollution Prevention Plan Sheets (1 sheets)

FIRM will develop supplemental specifications to clarify the work activities and sequence of work. Specifications will be incorporated on the construction plans.

FIRM will develop and submit three (3) sets of construction contract documents (plans, notes and clarifications) for review and comment by CSID at the draft and final-complete milestones.

### **Task 7 – Construction Cost Estimate**

Civil-CAD 3D will be used to prepare the proposed canal bank profiles. The program generates quantities of material required to be excavated and placed. With this information, Globaltech will work with a subcontractor (MEC) to prepare a cost estimate for the restoration of Site 15. The cost estimate will be developed to fully execute the work and will include project management, community outreach, construction oversight, construction implementation, and closeout services.

### **Assumptions**

Assumptions for the project are as follows:

- FIRM will coordinate assessment work with adjacent property owners.
- Utility location will be included in the base survey. Future contractor will need to verify utility locations with location service prior to commencing work.

- Permit applications for implementing the proposed improvements are not part of this work authorization.
- Following the data assessment and during the report review meeting, it will be decided by OWNER and FIRM if canal bank remediation is necessary. In the event that remediation is not required, FIRM will eliminate Task 6 (Engineering & Design) and will return unused funding (\$27,096) in a contract addendum.
- An alternatives evaluation will be performed to only include remediation methods suitable for this location (rip-rap, geotechnical membrane, shore reshaping with a protective barrier) and will not include the entire universe of remedial techniques.
- Cost of vegetation removal will not be included in project cost estimate.

### **Section 3 – Location**

The services to be performed by the FIRM shall be at Site 15 along Canal L-202 and include the following thirty-two (32) properties:

- **SW 1<sup>st</sup> Street** (12493, 12485, 12477, 12469, 12461, 12453, 12449, 12437, 12429, 12421, 12413, 12397, 12389, 12381, 12373, 12365, 12357, 12349, 12341, 12333, 12325, 12317, 12309, 12301, 12293, 12285)
- **NW 1<sup>st</sup> Street** (12233, 12211, 12199, 12177, 12155, 12133)

### **Section 4 – Deliverables**

The FIRM will provide the following Deliverables to OWNER:

- Draft and Final – Site 15– Report of Findings
- Presentation of Findings to Board of Directors
- Draft and Final – Site 15 Canal Bank Remediation Design

**Section 5 – Time of Performance**

Project will commence after execution of this Work Authorization. The FIRM and OWNER agree to the following schedule:

<b>Task</b>	<b>Time Elapsed to Subtask Completion</b>
Notice to Proceed (NTP)	0 Days
Data gathering	8 weeks after NTP
Draft Report	12 weeks after NTP
Final Report	14 weeks after NTP
Presentation to Board	14 weeks after NTP
Draft Design	18 weeks after NTP
Final Design	20 weeks after NTP

**Section 6 – Method and Amount of Compensation**

1. The FIRM shall be paid by the OWNER in accordance with the Florida’s Prompt Payment Act Florida Statute 218.70-79 and in accordance with the payment method as set forth in Section 6 of the AGREEMENT. The calculations shall begin using the date the invoice was received.
2. Total job price: **\$113,436**. No allowance is included in the proposed fee.
3. The cost for the above scope of services is a lump sum (LS). The LS is based on the materials, methods, and assumptions presented in the scope of services. The LS shall not be greater than the stated amount unless there is an approved increase in the scope of services.
4. A Budget Summary for the above LS is provided in Attachment A.

**Section 7 – Application for Progress Payment**

1. Unless otherwise prescribed by law, at the end of each month, the FIRM shall submit to the OWNER for review, an Application for Progress Payment filled out and signed by the FIRM covering the Work completed as of the

date of the Application and accompanied by such supporting documentation as is required by the AGREEMENT.

### **Section 8 – Responsibilities**

The FIRM shall, under no circumstance, look to the OWNER to provide any labor or equipment for the FIRM not specified herein. The FIRM shall provide all of the labor and equipment necessary to perform the job or services contracted for at the expense of the FIRM. Property of any kind that may be on the premises, which are the site of the performance of this contract, during the performance of this Work Authorization, shall be at the sole risk of the FIRM.

**8.1** The OWNER hereby designates Shawn Frankenhauser as the OWNER's representative.

**8.2** In addition to applicable provisions of Section 2 of the AGREEMENT, the OWNER will:

- Provide copies of existing drawings and equipment cut sheets if requested by FIRM
- Pay for any required permit fees

The FIRM acknowledges and understands that it is an independent contractor in its relationship with the OWNER. The FIRM hereby designates Rick Olson, P.E. as the FIRM's representative.

### **Section 9 – Insurance**

The FIRM shall provide certificate of insurance to the OWNER setting forth the type and amount of insurance carried by the FIRM and conforming to the minimum requirements set forth in the AGREEMENT.

### **Section 10 – Level of Service**

The OWNER shall have the right to terminate said Agreement by giving the FIRM thirty (30) days written notice if the service that is being provided is



not maintained at levels necessary to provide the required service. The OWNER will determine in its sole judgment what constitutes a satisfactory level of service.

**Section 11 – Indemnification**

The Firm shall indemnify and hold harmless the Owner and its officers and employees as set forth in Section 11 of the Agreement.

IN WITNESS WHEREOF, this Work Authorization, consisting of ten (10) pages and Attachment A has been caused fully executed on behalf of the FIRM by its duly authorized officer, and the OWNER has the same to be duly name and in its behalf, effective as of the date herein above written.

**CORAL SPRINGS IMPROVEMENT DISTRICT**

\_\_\_\_\_  
Signature of Witness

\_\_\_\_\_  
Signature of President

\_\_\_\_\_  
Printed name of Witness

Dr. Marty Shank  
Printed Name of President

\_\_\_\_\_  
Date

Approved as to form and legality

\_\_\_\_\_  
District Counsel

State of Florida  
County of Palm Beach

**ENGINEER**

The foregoing instrument was acknowledged before me on this

Globaltech, Inc.  
Company

     day of                     , 2022 by

\_\_\_\_\_  
Signature

\_\_\_\_\_  
who is personally known to me OR  
produced \_\_\_\_\_  
as identification.

David A. Schuman, P.E., Vice President  
Name and Title (typed or printed)

\_\_\_\_\_  
Signature of Notary

January 24, 2022  
Date

# **Attachment A**

## **Budget Summary**



**ATTACHMENT A**

WA#201 - Site 15 Canal Bank Assessment and Stabilization Design

**Engineering and Design Budget Summary**

Task	Task Description	Officer	E6	E4	E2	CADD	Adm 3	Adm 1	Total Labor	*Sub-Consultant Services	Sub-Consultants
		\$210.00	\$180.00	\$155.00	\$108.00	\$108.00	\$77.00	\$52.00			
<b>1</b>	<b>Project Engineering &amp; Coordination</b>										
	Project Management		16		4		4	6			
	Subconsultant Agreements / Coordination		4					2		0	
										0	
	<b>Subtotal Task 1</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>4</b>	<b>8</b>	<b>\$ 4,756</b>	<b>0</b>	
<b>2 - 5</b>	<b>Site Assessment / Report of Findings</b>										
	Subcontractor Management/Coordination		8				4	6			
	Coordination with Homeowners		16		16						
	Geotechnical Investigation		8					2		12,000	NET
	Canal Surveying and Mapping		12		6			2		18,500	Avirom
	Canal Dive Inspection		6		12			2		19,000	IDC
	Data Review		6							0	
	Report of Findings		16		8			8			
	Presentation to Board		4			2		2			
	<b>Subtotal Task 2</b>	<b>0</b>	<b>76</b>	<b>0</b>	<b>42</b>	<b>2</b>	<b>4</b>	<b>22</b>	<b>\$ 19,884</b>	<b>49,500</b>	
<b>6</b>	<b>Engineering and Design</b>										
	Design Concept and Slope Stability Analysis		24			4		2		0	
	Design Preparation		40		24	92					
	Cleint Review Meeting		4					2		0	
	Design Modificaitons		4			8		2			
	<b>Subtotal Task 3</b>	<b>0</b>	<b>72</b>	<b>0</b>	<b>24</b>	<b>104</b>	<b>0</b>	<b>6</b>	<b>\$ 27,096</b>	<b>0</b>	
<b>7</b>	<b>Construction Cost Estimate</b>										
	Construcion Cost Estimate		16		4		0	4		2,000	MEC
	<b>Subtotal Task 4</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>\$ 3,520</b>	<b>2,000</b>	
	Labor Subtotal Hours	0	184	0	74	106	8	40			
	Labor Subtotal	\$0	\$33,120	\$0	\$7,992	\$11,448	\$616	\$2,080			
	<b>Labor Total</b>								<b>\$ 55,256</b>		
	Subconsultant Labor Total									51,500	
	Subconsultant Multiplier									1.12	
	<b>Subcontract Total</b>									<b>57,680</b>	
	<b>Field Materials</b>									<b>\$ 500</b>	
	<b>TOTAL</b>									<b>\$ 113,436</b>	

MEC - Metro Equipment Corp.  
 AA - Avirom and Associates  
 IDC - Industrial Dive Corporation  
 NET - Nutting Engineering and Testing

## **Eleventh Order of Business**

**Globaltech, Inc.**  
**CSID Engineer's Report**  
**April 18, 2022**

**PROJECTS UNDER CONTRACT**

**WA#183 – Above Ground Fuel Storage Tanks & Dispensing System – Substantially Complete**

- Approved by Board – 11/16/20
- Pump replaced on unleaded fuel tank 12/06/21
- Recalibrated fuel dispenser
- Cypress Construction replaced impeller
- Manufacturer's representative on site to assess vibration, noise, and impeller wear
- Cypress Construction to implement changes proposed by pump manufacturer
- Globaltech ordered emergency stop button. CSID to install.
- New pump being shipped by manufacturer.
- Project should be complete in May

**WA#184 – HSP 7 Day Tank Replacement – Substantially Complete**

- Approved by Board – 1/25/21
- Project substantially complete – 5/27/21
- Cypress Construction and Globaltech met with Broward County electrical inspector
- Waiting to close out permit with Broward County
- Project should be complete in May 2022

**WA#187 – 500KW Emergency Generator – In Progress**

- Approved by Board – 5/17/21
- Project kick-off meeting 6/10/21
- Signed purchase order for generator – 6/10/21
- Received revised submittals – scheduling a review meeting with staff – 10/13/21
- Released generator for production
- Design review meeting conducted – 4/11/22
- Anticipated generator delivery – September 2022
- Estimated project substantial completion – October 2022

**WA#188 – Atlantic Blvd. 4-inch Sleeve – Complete**

- Approved by Board – 12/21/20
- Permit closeout received and forwarded to CSID

**WA#192 – Canal Right-of-Way Tree Inventory – On Hold**

- Approved by Board – 9/20/21
- Waiting on direction from CSID
- Estimated completion – 20 weeks from notice to begin work

**Globaltech, Inc.**  
**CSID Engineer's Report**  
**April 18, 2022**

**ACTIVE PROJECTS (Cont.)**

**WA#193 – WWTP Operating Permit Renewal and Reuse Study – Complete**

- Approved by Board – 9/20/21
- Permit issued by FDEP 3/09/22 (Permit period 6/18/22 – 6/17/27)
- Follow up correspondence with FDEP

**WA#195 – PW8 VFD – In Progress**

- Approved by Board – 11/15/21
- Issued Purchase Orders and Subcontracts
- Reviewing submittals from CC controls
- Estimated construction – April 2022
- Estimated project completion – May 2022

**WA#196 - DIW Building Breaker Replacement – In Progress**

- Approved by Board – 11/15/21
- Issued Purchase Orders and Subcontracts
- Coordinating work and site visit with FPL
- Submitted permit drawings to Energy Efficient
- Switch gear expected to be delivered by 5/13/22
- Construction to be completed by 5/27/22
- Estimated project completion – 6/15/22

**WA#197 – Distribution Line Valve Replacement –In Progress**

- Approved by Board – 11/15/21
- Ordered valves and fittings
- Pipe and fittings delivered – 3/19/22
- Submitted courtesy letter to FDEP notifying of valve replacement and requesting bacteriological testing protocol approval – 4/13/22
- Estimated valve delivery week of 4/25/22
- Estimated construction – May 2022
- Estimated project completion – June 2022

**WA#194 – HB53 Compliance – In Progress**

- Approved by Board – 12/20/21
- Preparing data requests from CSID to complete templates
- Estimated Project Completion – 6/30/22



**Globaltech, Inc.  
CSID Engineer's Report  
April 18, 2022**

**ACTIVE PROJECTS (Cont.)**

**WA#199 – LP Fuel Tank Installation – In Progress**

- Approved by Board – 12/20/21
- Executed subcontract with Sungas
- Construction scheduled – 4/25/22 through 5/06/22
- Estimated project completion – 5/20/22

**WA#200 – PS 1 & 2 Trash Rack Bracket Replacement – In Progress**

- Approved by Board – 12/20/21
- Brackets being fabricated – completed by 2/25/22
- PS-2 substantially completed – 3/11/22
- PS-1 substantially completed – 4/05/22
- Addressing minor issues prior to closeout
- Estimated project complete – 4/22/22

**Work Authorizations Under Development**

WA#191 – Replace Blowers 4 & 5 – On current agenda

WA#XX – Generator Storage Building – under development