

New Irrigation at Ben Fiorendino Pembroke Lakes Park

Invitation for Bids # RE-19-08

General Information				
Project Cost Estimate	\$100,000	See Section 1.4		
Project Timeline	60 calendar days from NTP	See Section 1.4		
Evaluation of Proposals	Staff	See Section 1.7		
Non Mandatory	9:00 a.m. on September 5, 2019	See Section 1.8		
Pre-Bid Meeting	at Ben Fiorendino Pembroke Lakes			
	Park located at 10211 Taft Street,			
	Pembroke Pines, FL. 303026			
Question Due Date	September 10, 2019	See Section 1.8		
Proposals will be accepted until	2:00 p.m. on September 24, 2019	See Section 1.8		
5% Proposal Security / Bid Bond	Not Applicable	See Section 4.1		
100% Payment and Performance Bonds	Not Applicable	See Section 4.2		

THE CITY OF PEMBROKE PINES
PURCHASING DIVISION
8300 SOUTH PALM DRIVE
PEMBROKE PINES, FLORIDA 33025
(954) 518-9020



Table of Contents

SECTION	I 1 - INSTRUCTIONS	5
1.1	NOTICE	5
1.2	PURPOSE	5
1.3	SCOPE OF WORK	6
1.4	PROJECT COST ESTIMATE & TIMELINE	6
1.4.1	PERMITS	6
1.4.2	PERMIT ALLOWANCE	7
1.5	PROPOSAL REQUIREMENTS	7
1.5.1	Attachment A: Contact Information Form	7
1.5.2	Attachment B: Non-Collusive Affidavit	8
1.5.3	Attachment C: Proposer's Qualifications Statement	8
1.5.4	Attachment F: References Form	8
1.6	VENDOR REGISTRATION AND QUALIFICATION DOCUMENTS	8
1.6.1	Vendor Information Form	9
1.6.2	Form W-9 (Rev. October 2018)	9
1.6.3	Sworn Statement on Public Entity Crimes Form	9
1.6.4	Local Vendor Preference Certification	9
1.6.5	Local Business Tax Receipts	9
1.6.6	Veteran Owned Small Business Preference Certification	9
1.6.7	Equal Benefits Certification Form	10
1.6.8	Vendor Drug-Free Workplace Certification Form	10
1.6.9	Scrutinized Company Certification	10
1.7	EVALUATION OF PROPOSALS & PROCESS OF SELECTION	10
1.8	TENTATIVE SCHEDULE OF EVENTS	10
1.8.1	NON-MANDATORY PRE-BID MEETING / SITE VISIT	10
1.9	SUBMISSION REQUIREMENTS	10
SECTION	I 2 - INSURANCE REQUIREMENTS	12
2.1	REQUIRED INSURANCE	13
2.2	REQUIRED ENDORSEMENTS	15



SECTIO	N 3 - GENERAL TERMS & CONDITIONS	17
3.1	EXAMINATION OF CONTRACT DOCUMENTS	17
3.2	CONFLICT OF INSTRUCTIONS	17
3.3	ADDENDA or ADDENDUM	17
3.4	INTERPRETATIONS AND QUESTIONS	17
3.5	RULES, REGULATIONS, LAWS, ORDINANCES and LICENSES	17
3.6	WARRANTIES FOR USAGE	18
3.7	BRAND NAMES	18
3.8	QUALITY	18
3.9	SAMPLES	18
3.10	DEVELOPMENT COSTS	18
3.11	PRICING	18
3.12	DELIVERY POINT	18
3.13	TAX EXEMPT STATUS	18
3.14	CONTRACT TIME	19
3.15	COPYRIGHT OR PATENT RIGHTS	19
3.16	PUBLIC ENTITY CRIMES	19
3.17	CONFLICT OF INTEREST	
3.18	FACILITIES	19
3.19	ENVIRONMENTAL REGULATIONS	19
3.20	SIGNATURE REQUIRED	20
3.21	MANUFACTURER'S CERTIFICATION	20
3.22	MODIFICATION OR WITHDRAWAL OF PROPOSAL	20
3.23	PUBLIC BID; BID OPENING AND GENERAL EXEMPTIONS	20
3.24	RESERVATIONS FOR REJECTION AND AWARD	21
3.25	BID PROTEST	21
3.26	INDEMNIFICATION	21
3.27	DEFAULT PROVISION	22
3.28	ACCEPTANCE OF MATERIAL	22
3.29	LOCAL GOVERNMENT PROMPT PAYMENT ACT	23
3.30	SCRUTINIZED COMPANIES LIST	23



3.31 PUBLIC RECORDS; TRADE SECRET, PROPRIETARY AND CONFIDEN' SUBMITTALS	
SECTION 4 - SPECIAL TERMS & CONDITIONS	25
4.1 SOLID WASTE CONSTRUCTION AND DEMOLITION DEBRIS COLLEC AND DISPOSAL REQUIREMENTS	
ATTACHMENTS	
Attachment A: Contact Information Form	
Attachment B: Non-Collusive Affidavit	
Attachment C: Proposer's Qualifications Statement	
Attachment D: Sample Insurance Certificate	
Attachment E: Specimen Contract - Construction Agreement	
Attachment F: References Form	
Attachment G: Standard Release of Lien Form	
Attachment H: Schematic Irrigation Plans for Ren Fiorendino Park	

SECTION 1 - INSTRUCTIONS

1.1 NOTICE

Notice is hereby given that the City Commission of the City of Pembroke Pines is seeking sealed proposals for:

IFB # RE-19-08 New Irrigation at Ben Fiorendino Pembroke Lakes Park

Solicitations may be obtained from the City of Pembroke Pines website at http://www.ppines.com/index.aspx?NID=667 and on the www.BidSync.com website.

If you have any problems downloading the solicitation, please contact the BidSync Support line at 1-800-990-9339.

If additional information help is needed with downloading the solicitation package please contact the Purchasing Office at (954) 518-9020 or by email at purchasing@ppines.com. The Purchasing Office hours are between 7:00 a.m. - 6:00 p.m. on Monday through Thursday and is located at 8300 South Palm Drive, Pembroke Pines, Florida 33025.

The City requires all questions relating to the solicitation be entered through the "Ask a Question" option tab available on the BidSync website. Responses to the questions will be provided online at www.bidsync.com. Such request must be received by the "Question Due Date" stated in the solicitation. The issuance of a response via BidSync is considered an Addendum and shall be the only official method whereby such an interpretation or clarification will be made.

Proposals will be accepted until 2:00 p.m., Tuesday, September 24, 2019. Proposals must be **submitted electronically at <u>www.BidSync.com</u>**. The sealed electronic proposals will be publicly opened at 2:30 p.m. by the City Clerk's Office, in the City Hall Administration Building, 4th Floor Conference Room located at 601 City Center Way, Pembroke Pines, Florida, 33025.

1.2 PURPOSE

The City of Pembroke Pines is seeking proposals from qualified firms, hereinafter referred to as the Contractor, to provide a new irrigation system at Ben Fiorendino Pembroke Lakes Park to ensure the growth and vitality of surrounding vegetation, in accordance with the terms, conditions, and specifications contained in this solicitation.

1.3 SCOPE OF WORK

See Attachment H: Schematic Irrigation Plans for Ben Fiorendino Park for details on scope of work.

General Conditions:

- 1. Contractor is responsible for all materials, labor, equipment and any other necessary items required to complete the project.
- 2. Contractor shall provide all warranties for work completed.
- 3. Contractor shall be able to communicate effectively with Project Manager/City Staff progress of onsite work. All communications will be conducted between Contractor and City Staff.
- 4. Contractor will be required to schedule all work with Project Manager/City Staff.
- 5. Contractor shall be responsible for all debris removal and restoration to any existing areas damaged by the contractor once the project is completed. Site shall be made safe and clean of debris at the end of each workday.
- 6. All precautions need to be taken for life safety and protection of people, vehicles and other structures on the site.
- 7. The work must be performed Monday-Thursday or as approved by the City Staff/Project Manager.
- 8. Assume full responsibility for the protection and safe keeping of products and equipment and move any stored products to a secured area.

1.4 PROJECT COST ESTIMATE & TIMELINE

Staff estimates this project to cost approximately \$100,000 which does not include permit costs.

Please note the City will include a Permit Allowance for this project, therefore proposers should not include permit costs in their total proposal price.

The work shall be completed within 60 days days from issuance of CITY's Notice to Proceed, with an estimated start date of November 1, 2019.

1.4.1 PERMITS

The City anticipates this project to require the following permits:

Permit	Agency	Cost (or related method of calculation)
Engineering	City of Pembroke Pines	4.9136% of construction costs
	Engineering Department	



1.4.2 PERMIT ALLOWANCE

The City shall include a "Permit Allowance" for this project. The Contractor shall obtain all required permits to complete the work, however the City shall utilize the Permit Allowance to reimburse the contractor for the related permit, license, impact or inspection fees. Payments will be made to the contractor based on the actual cost of permits upon submission of paid permit receipts. The City shall not pay for other costs related to obtaining or securing permits.

The City shall determine the amount of the allowance at time of award. The allowance may be based on a specified percent of the proposed project amount and shall be established for the specific project being performed under the contract. This dollar amount shall be shown on the specific project purchase order as a distinct item from the vendor's overall offer to determine the total potential dollar value of the contract. Any Permit Allowance funds that have not been utilized at the end of the project will remain with the City, if the City Permit fees exceed the allowance indicated, the City will reimburse the contractor the actual amount of City Permit Fees required for project completion.

1.5 PROPOSAL REQUIREMENTS

The following documents will need to be completed, scanned and submitted through www.bidsync.com as part of the bidder's submittal. The proposer interested in responding to this solicitation must provide the information requested below. Submittals that do not respond completely to all requirements specified herein may be considered non-responsive and eliminated from the process.

1.5.1 Attachment A: Contact Information Form

- a. Attached is contact information form (Attachment A) where the vendor will enter their contact information and complete the proposal checklist. The Contact information form shall be electronically signed by the contact person authorized to represent the contractor. This form must be completed and submitted through www.bidsync.com as part of the bidder's submittal.
- b. The vendor must provide their pricing through the designated lines items listed on the BidSync website.
- c. Please note vendors should be registered on BidSync under the name of the organization that they are operating as and it should match the organization name on the documents that they are submitting and utilizing when responding to the solicitation.

- d. The contact information form should contain an electronic signature of the authorized representative of the Proposer along with the address and telephone number for communications regarding the Proposal.
- e. Proposals by corporations should be executed in the corporate name by the President or other corporate officer accompanied by evidence of authority to sign. The corporate address and state of incorporation must also be shown.
- f. Proposals by partnerships should be executed in the partnership name and signed by a partner whose title and the official address of the partnership must be shown.

1.5.2 Attachment B: Non-Collusive Affidavit

1.5.3 Attachment C: Proposer's Qualifications Statement

1.5.4 Attachment F: References Form

a. Complete **Attachment F: References Form**. References should be from the last five years and should be capable of explaining and confirming your firm's capacity to successfully complete the scope of work outlined herein. As part of the proposal evaluation process, the City may conduct an investigation of references, including a record check or consumer affairs complaints. Proposers' submission of a proposal constitutes acknowledgment of the process and consent to investigate. The City is the sole judge in determining Proposers qualifications.

1.6 VENDOR REGISTRATION AND QUALIFICATION DOCUMENTS

The City has implemented a new process that is intended to make the bidding process easier for vendors that bid on multiple City projects. This process will require vendors to complete and submit the following standard forms and documents at any time prior to bidding on a project. In addition, the vendors will be able to utilize these same forms without the need to re-fill and resubmit the forms each time they bid on a City project.

<u>Furthermore</u>, please make sure to update this information on an as-needed basis so that all pertinent information is accurate, such as local business tax receipts, and any other relevant information.

These forms will be found under the "Vendor Registration" group of "Qualifications" on the BidSync website for the City of Pembroke Pines. Please note that the BidSync website requires bidders to complete all of these qualifications prior to being able to submit questions on any bids, therefore, please make sure to complete this information as soon as possible.

The following documents can be completed prior to the bidding process through the BidSync website and do not need to be attached to your submittal as the BidSync website will automatically include it.

1.6.1 Vendor Information Form

1.6.2 Form W-9 (Rev. October 2018)

a. Previously dated versions of this form will delay the processing of any payments to the selected vendor.

1.6.3 Sworn Statement on Public Entity Crimes Form

1.6.4 Local Vendor Preference Certification

- a. If claiming Local Pembroke Pines Vendor Preference, business must attach a current business tax receipt from the City of Pembroke Pines
- b. If claiming Local Broward County Vendor Preference, business must attach a current business tax receipt from Broward County or the city within Broward County where the business resides.
- c. The Local Vendor Preference Certification form must be completed by/for the proposer; the proposer <u>WILL NOT</u> qualify for Local Vendor Preference based on their sub-contractors' qualifications.

1.6.5 Local Business Tax Receipts

1.6.6 Veteran Owned Small Business Preference Certification

- a. If claiming Veteran Owned Small Business Preference Certification, business must attach the "Determination Letter" from the United States Department of Veteran Affairs Center for Verification and Evaluation notifying the business that they have been approved as a Veteran Owned Small Business (VOSB).
- b. The Veteran Owned Small Business Preference Certification form must be completed by/for the proposer; the proposer <u>WILL NOT</u> qualify for Veteran Owned Small Business Preference based on their sub-contractors' qualifications.

1.6.7 Equal Benefits Certification Form

1.6.8 Vendor Drug-Free Workplace Certification Form

1.6.9 Scrutinized Company Certification

1.7 EVALUATION OF PROPOSALS & PROCESS OF SELECTION

- A. Staff will evaluate all responsive proposals received from proposers who meet or exceed the bid requirements contained in the solicitation. Evaluations shall be based upon the information contained in the proposals as submitted.
- B. Staff will make a recommendation to the City Commission for award of contract.

1.8 TENTATIVE SCHEDULE OF EVENTS

Event	Time &/or Date
Issuance of Solicitation (Posting Date)	August 27, 2019
Non-Mandatory Pre-Bid Meeting	9:00 a.m. on September 5, 2019
Question Due Date	September 10, 2019
Anticipated Date of Issuance for the	September 12, 2019
Addenda with Questions and Answers	
Proposals will be accepted until	2:00 p.m. on September 24, 2019
Proposals will be opened at	2:30 p.m. on September 24, 2019
Evaluation of Proposals by Staff	September 24, 2019 – October 3, 2019
Recommendation of Contractor to	October 16, 2019
City Commission award	
Issuance of Notice to Proceed	November 1, 2019
Project Commencement	Not later than 10 days after NTP
Project Completion	60 days after NTP

1.8.1 NON-MANDATORY PRE-BID MEETING / SITE VISIT

There will be a non-mandatory scheduled pre-bid meeting on **September 5, 2019 at 9:00 a.m.** Meeting location will be at Ben Fiorendino Pembroke Lakes Park located at 10211 Taft Street, Pembroke Pines, FL 33026.

1.9 SUBMISSION REQUIREMENTS

Bids/proposals <u>must be submitted electronically</u> at <u>www.bidsync.com</u> on or before 2:00 p.m. on September 24, 2019



Please note vendors should be registered on BidSync under the name of the organization that they are operating as and it should match the organization name on the documents that they are submitting and utilizing when responding to the solicitation.

The vendor must provide their pricing through the designated lines items listed on the BidSync website. In addition, the vendor must complete any webforms on the BidSync website and provide any additional information requested throughout this solicitation. Any additional information requested in the solicitation should be scanned and uploaded. <u>Unless otherwise specified, the City requests for vendors to upload their documents as one (1) PDF document in the order that is outline in the bid package.</u>

The City recommends for proposers to submit their proposals as soon as they are ready to do so. Please allow ample time to submit your proposals on the BidSync website. Proposals may be modified or withdrawn prior to the deadline for submitting Proposals. BidSync Support is happy to help you with submitting your proposal and to ensure that you are submitting your proposals correctly, but we ask that you contact their support line at 1-800-990-9339 with ample time before the bid closing date and time.

PLEASE DO NOT SUBMIT ANY PROPOSALS VIA MAIL, E-MAIL OR FAX.

Attachment A

CONTACT INFORMATION FORM

IN ACCORDANCE WITH "RE-19-08" titled "New Irrigation at Ben Fiorendino Pembroke Lakes Park" attached hereto as a part hereof, the undersigned submits the following:

A) Contact Information

The Contact information form shall be electronically signed by one duly authorized to do so, and in case signed by a deputy or subordinate, the principal's properly written authority to such deputy or subordinate must accompany the proposal. This form must be completed and submitted through www.bidsync.com as part of the bidder's submittal. The vendor must provide their pricing through the designated lines items listed on the BidSync website.

COMPANY INFORMATION	<u>N:</u>	
COMPANY:		
STREET ADDRESS:		
CITY, STATE & ZIP CODE:		
PRIMARY CONTACT FOR	THE PROJECT:	
NAME:	TITLE:	
E-MAIL:		
TELEPHONE:	FAX:	
AUTHORIZED APPROVER	<u>₹:</u>	
NAME:	TITLE:	
E-MAIL:		
TELEPHONE:	FAX:	
SIGNATURE:		
B) Proposal Checklist		
Did you make sure to submit the for Requirements" of the bid package?		•
Attachment A - Contact Informa	ation Form	Yes
Attachment B - Non-Collusive A	Affidavit	Yes



Attachment A

Attachment C - Proposer's Completed Qualification Statement	Yes
Attachment F - References Form	Yes

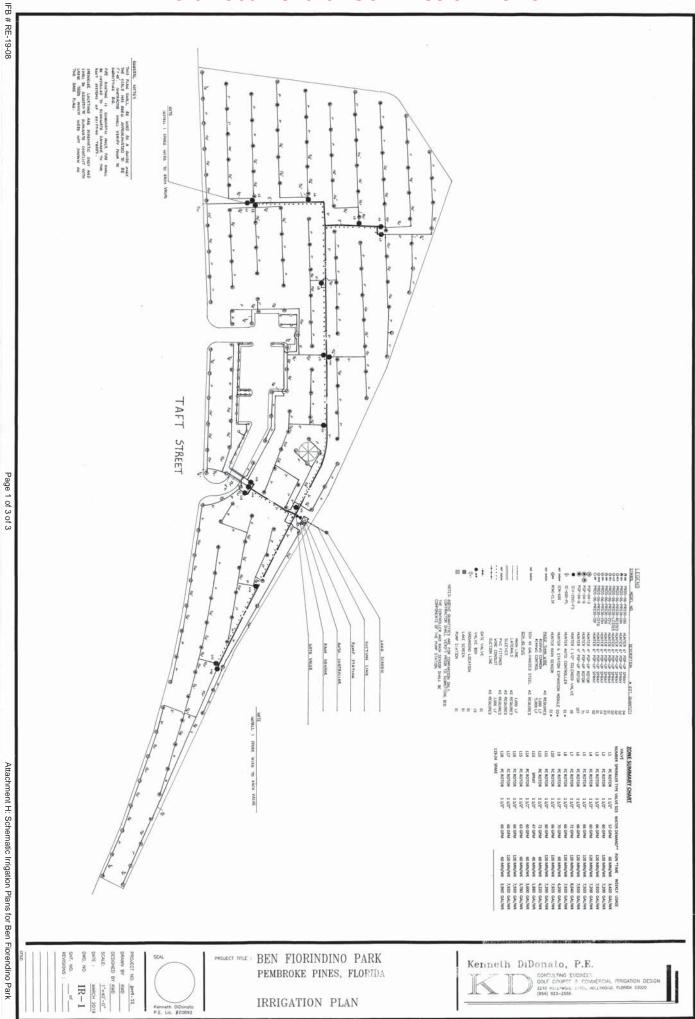
Did you make sure to update the following documents found under the "Vendor Registration" group of "Qualifications" on the BidSync website for the City of Pembroke Pines?

Vendor Information Form	Yes
Form W-9 (Rev. October 2018)	Yes
Sworn Statement on Public Entity Crimes Form	Yes
Local Vendor Preference Certification	Yes
Local Business Tax Receipts	Yes
Veteran Owned Small Business Preference Certification	Yes
Equal Benefits Certification Form	Yes
Vendor Drug-Free Workplace Certification Form	Yes
Scrutinized Company Certification	Yes

C) Sample Proposal Form

The following sample price proposal is for information only. The vendor must provide their pricing through the designated lines items listed on the BidSync website.

Item #	Item Description	Total Cost
1)	Total cost for the New Irrigation at Ben Fiorendino Pembroke Lakes	Price to be Submitted
	Park Project, per the scope of work provided for in the IFB.	Via BidSync



IRRIGATION PLAN

Attachment H

ZONE SUMMARY CHART

HAMES SERBALE PITE VALVE SEE WATER CORAMET* RAWN TABLE VALVE SEE WATER CORAMET* ANN TABLE VALVE SEE WATER CORAMET* ANN TABLE SEE WATER CORAMET* AND ANNOW A 200 GALVAN A 200 G					SPARE	19.74
R REDION 11/2: 59 death 120 MAN/MX 2000 R REDION 11/2: 59 death 20 MAN/MX 2000 R REDION 11/2: 59 death 20 MAN/MX 2000 R REDION 11/2: 50 death 20 MAN/MX 2000 R REDION 11/2: 66 death 210 MAN/MX 2000 R REDION 11/2: 70 death 210 MAN/MX 2000 R REDION 11/2: 60 death 210 MAN/MX 2000 R REDION 11/2: 61 death 210 MAN/MX 2000 R REDION 11/2: 61 death 210 MAN/MX 2000 R REDION 11/2: 61 death 20 MAN/MX 2000 R RE	XM/WE	3,960	66 GPM	11/2"	PC ROTOR	811
E REDOTION 11/27: 50 GMAN 1200 MAN/WAX 2007 MARCH 1200 MARCH 1200 MAN/WAX 2007 MARCH 1200 MARCH 120	SW/WK	7,920	Web 99	11/2"	FC ROTOR	117
E REGION 11/2" ST GAM-ME TAME WETAY E REGION 11/2" ST GAM-ME TAME WETAY E REGION 11/2" ST GAM-ME TAME WETAY E REGION 11/2" ST GAM-ME TAME TAME E REGION 11/2" ST GAM-ME TAME E REGION	SM/WK	7,920	MAS 99	11/2"	FC ROTOR	513
E REDORN 11/2" 50 GMM 120 MAN/ME 200 MAN/ME	SW/WX	3,780	63 GPM	11/2"	PC ROTOR	517
SERBIALITY WAYE SEZ WATER GROWNET* BARF "MREET FE ROTOR 11/2" 50 GMA DO MANYMA ZO FE ROTOR 11/2" 50 GMA DO MANYMA ZO FE ROTOR 11/2" 66 GMA DO MANYMA ZO FE ROTOR 11/2" 76 GMA DO MANYMA ZO FE ROTOR 11/2" 76 GMA DO MANYMA ZO FE ROTOR 11/2" 77 GMA DO MANYMA ZO FE ROTOR 11/2" 77 GMA DO MANYMA ZO FE ROTOR 11/2" 77 GMA DO MANYMA ZO FE ROTOR 11/2" 77 GMA DO MANYMA ZO FE ROTOR 11/2" 77 GMA DO MANYMA ZO FE ROTOR 11/2" 77 GMA DO MANYMA ZO FE ROTOR 11/2" 77 GMA DO MANYMA ZO FE ROTOR 11/2" 77 GMA DO MANYMA ZO FE ROTOR 11/2" 77 GMA DO MANYMA ZO FE ROTOR 11/2" 77 GMA DO MANYMA ZO FE ROTOR 11/2" 77 GMA DO MANYMA ZO FE ROTOR 11/2" 77 GMA DO MANYMA ZO FE ROTOR 11/2" 77 GMA DO MANYMA ZO FE ROTOR 11/2" 77 GMA DO MANYMA ZO FE ROTOR 11/2" 77 GMA DO MANYMA ZO FE ROTOR 11/2" 77 GMA DO MANYMA ZO FE ROTOR 11/2" 77 GMA DO MANYMA ZO FE ROTOR 11/2" 77 GMA DO MANYMA ZO FE ROTOR 11/2" 77 GMA DO MANYMA ZO FE ROTOR 11/2" 77 GMA DO MANYMA ZO FE ROTOR 11/2" 77 GMA DO MANYMA ZO FE ROTOR 11/2" 77 GMA DO MANYMA ZO FE ROTOR 11/2" 77 GMA DO MANYMA ZO FE ROTOR 11/2" 77 GMA DO MANYMA ZO FE ROTOR 11/2" 77 GMA DO MANYMA ZO FE ROTOR 11/2" 77 GMA DO MANYMA ZO FE ROTOR 11/2" 77 GMA DO MANYMA ZO FE ROTOR 11/2" 77 GMA DO MANYMA ZO FE ROTOR 11/2" 77 GMA DO MANYMA ZO FE ROTOR 11/2" 77 GMA DO MANYMA ZO FE ROTOR 11/2" 77 GMA DO MANYMA ZO FE ROTOR 11/2" 77 GMA DO MANYMA ZO	SW/WK	3,600	60 GPM	11/2"	PC ROTOR	114
E REDORN 11/2". 50 GMA 100 MAN/MA 200 MAN/MA	SW/WX	1,880	47 GPM	11/2"	SPRAY	E
SE REGISTE THE VALVE SEZ MUTTE GENAMEN* RAM* THAE WEETAY ER REGION 11/17: 55 GMA 20 DAWAWA 2,000 ER REGION 11/17: 65 GMA 120 DAWAWA 7,000 ER REGION 11/17: 70 GMA 120 DAWAWA 7,000 ER REGION 11/17: 70 GMA 120 DAWAWA 7,000 ER REGION 11/17: 65 GMA 120 DAWAWA 7,000 ER REGION 11/17	SW/WK	4,320	72 GPM	11/2"	PC ROTOR	122
E REDOTRI 11/2' 50 GM 10 DAWAYWA ZAO E REDOTRI 11/2' 50 GM 10 DAWAYWA ZAO E REDOTRI 11/2' 50 GM 10 DAWAYWA ZAO E REDOTRI 11/2' 66 GM 10 DAWAYWA ZAO E REDOTRI 11/2' 70 DAWAYWA ZAO E RE	SW/WK	7,200 4	80 CPM	11/2"	PC ROTOR	E
SE REGISTE THE VALVE SEZ MUTTE COLOMON ²⁸ RAIN "THE WETAY SE REGISTE 11/1/2" 55 GMA 120 MW/WX 2,200 RE REGISTE 11/1/2" 65 GMA 120 MW/WX 2,200 RE REGISTE 11/1/2" 75 GMA 120 MW/WX 2,200 RE REGISTE 11/1/2" 75 GMA 120 MW/WX 2,200 REGISTE 11/1/2" 75 GMA 120 MW/	SW/WK	7,920	MAPS 99	11/2"	FC ROTOR	110
R ROTOR 11/2' 55 GM 10 DAWAWA 2,500 R ROTOR 11/2' 55 GM 10 DAWAWA 2,500 R ROTOR 11/2' 56 GM 10 DAWAWA 2,500 R ROTOR 11/2' 66 GM 10 DAWAWA 3,600	SW/WS	4,200	70 GPM	11/2"	PC ROTOR	5
S PRISHALLY PRI VALY SEZ MATTE GRAMANI* RAM* THAE WEEKAY R R GOTOR 11/2* 50 GMA 120 MAYAN 2,200 R R GOTOR 11/2* 60 GMA 120 MAYAN 7,200 R R GOTOR 11/2* 60 GMA 120 MAYAN 7,200 R R GOTOR 11/2* 60 GMA 120 MAYAN 7,200 R R GOTOR 11/2* 60 GMA 120 MAYAN 7,200 R R GOTOR 11/2* 60 GMA 120 MAYAN 7,200 R GOTOR 11/2* 7,7 GMA 120 MAYAN 7,200	SW/7PPS	7,920	W45 99	11/2"	FC ROTOR	5
SEMBRULTIPE WAYE SEZ MUTE GEMAND* BAN **THAE WEEKAY R ROTOR 11/2* 50 GMA 100 MAN/WA 2,000 R ROTOR 11/2* 66 GMA 100 MAN/WA 2,000	SW/WK	8,640	72 GPM	11/2"	FC ROTOR	IJ
8 SHIRIQUES PITER VALVE SIZE WARTER DEMANDAR SAND THE MERCENTOR 11/2" ST GRM GO MANUNK 3,420 FR ROTOR 11/2" 60 GRM 120 MANUNK 7,200 FR	SW/WK	7,920	66 GPM	11/2"	FC ROTOR	16
S-SHANLER PITE VALVE SEE WATER DEDAMON* RUN *THAE WEEKY RE ROTOR 11/2" 50 GM 00 MHVWX 1,200 RE ROTOR 11/2" 60 GM 120 MHVWX 2,200 RE ROTOR 11/2" 60 GM 120 MHVWX 2,200 RE ROTOR 11/2" 60 GM 120 MHVWX 2,200 RE ROTOR 11/2" 60 GM 120 MHVWX 2,200	SM/MX	7,920	M45 99	11/2"	FC ROTOR	5
8 SPRINGLE TYPE VALVE SUZ WATES DEMAND** RIN *TIME WEEKLY DE ROTOR 11/2* 65 GPM 120 MIN/WX 7,200 EC ROTOR 11/2* 66 GPM 120 MIN/WX 7,920	SW/WK	7,200	Web 09	11/2"	FC ROTOR	2
R SPRINKLER TYPE VALVE SIZE WATER DEMAND** RIN *TIME WEEKLY PC ROTOR 11/2" 57 GPM 60 MIN/WK 3,420 FC ROTOR 11/2" 60 GPM 120 MIN/WK 7,200	WATNES	7,920	Web 99	11/2"	FC ROTOR	G
R SPRINKER TYPE VALVE SIZE WATER DEMAND** RUN *TIME WEEKLY PC ROTOR 11/2" 57 GPM 60 MIN/WK 3,420	XM/MS	7,200	Web 09	11/2"	FC ROTOR	ū
R SPRINKLER TYPE VALVE SIZE WATER DEMAND** RUN "TIME WEEKLY	SW/WK	3,420	57 GPM	11/2"	PC ROTOR	F
	USAGE	WEEKLY I	WATER DEMAND**	VALVE SIZE	SPRINKLER TYPE	UMBER

SMILLY

CENERAL D	WATER SDURCE PRESSURE REQUIRED PUMPING CAPACITY	AUTOMATIC IRRIGATION SYSTEM	IRRIGATION NOTES & SPECIFICA

REFER TO PLAN LAKE 55 PSI 70 GPM @ 127 FTAD

RERIGATION SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES, CONTRACT DRAVINGS, CONTRACT SPECIFICATIONS, AND APPENDIX "F" OF THE FLORIDA BUILDING CODE. IGATION DESIGN DANSED ON CITY OF PEMBROKE PINES SITE PLAN NYIDED BY THE CITY.

THE STURCE SHALL BE A PRE-FABRICATED PUMP STATION DRAWING WATER THIS PLAN SMALL BE USED AS A GUIDE (DAY, DROZENTIDN SMALL BE NETHALED IT MAYOR DIN STELL CONDITIONS AND TO TO POPUME THE NAMEDEAT INACCORNICES THAT RESULT WHEN DESIGNING FROM BASE TAMES SCALED AT THIS PLAN IS APPROXIMATE AND SMALL BE VERIFIED DIN STILL NO SMALL BE VERIFIED DIN STILL NO SMALL BE VERIFIED DIN STILL NO

TO ENSURE PROPER OPERATION, PURPING CAPACITY, VALVE SIZES, ZIDE VARCITIES, SPRINKLER SPACING, PIPE AND VIES SIZES, AND INSTALLATION WITES AND DETAILS SHALL BE FOLLOWED AS SHOWN. ONTRACTOR SHALL REFER TO THE PLANS FOR ADDITIONAL DEFORMATION AND HIS DREIGHTIDN HAS BEEN DESIGNED AS A TYPICAL BLOCK VALVE TYPE ISING HANTER SPRINGERS, IN-LIME VALVES AND CONTROL SYSTEM A RAIN IENSOR SHALL BE INSTALLED TO CONSERVE WATER. RRIGATION SHALL BE INSTALLED AND MAINTAINED TO MOMMIZE UNDESTRABLE VERTHROW ONTO PAVEMENT, SIDEVALKS, AND BUILDINGS.

PE SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND PIPE WALFACTURGER'S INSTRUCTIONS. ERDITING IS SCHEMATIC DWLY AND SHALL BE ADJUSTED FOR ON SITE DITIONS. PIPE SHALL BE INSTALLED TO HONNIZE DANAGE TO THE ROOT TENS OF EXISTING TREES.

IPE SIZED TO LIMIT FLOW VELOCITIES TO 5 FEET/SECOND AND TO LIMIT RICTION LOSS IN THE PIPONO NETWORK INSTALLED ABOVE GRADE AT THE PUMP STATION SHALL BE SON 40 YANIZED STEEL, SUCTION LINE SHALL BE HIPE. ALL DITHER PIPE AND THIS SHALL BE SON 40 TYPE 1120 PVC. ROUTED UNDER MARDSCHEFEL MECAS SMALL BE SLEEVED IN SCH. 40 PVC.
SECTOR SMALL BES DIE BEREIDE BEREINMEN BETH DE SH. 48 ECON.
SECTOR SMALL BES DIE BEREIDE BEREINMEN DE STEVENEL OF BECOM.
SECTOR SMALL BES DIE BEREINE BEREINE SMALL VERFIT HE STEV. BEPH.
LECKHEIM DE ALL EXISTING SLEEVEN.

ACKFILL SHALL BE OF SUITABLE MATERIAL, FREE OF ROCKS, STONES, AND THER DEBRIS THAT VOULD DAMAGE TRRIGATION SYSTEM COMPONENTS. SWALL BE INSTALLED AT SUFFICIENT IDEPTH BELDY GROUND TO PROTECT TON HARMON SICH AN CYCHICILAR PROFFIC OR DUTTING DOCROROWESS IN DICK HORMON LUSE AND HAINTENHALE OF THE PROPERTY. NO DYS COLVER SWALL HALL TO BE EXCELD SES CODE. 430-10. REVER TO THE ICABLE. ESTALL FOR ADDITIONAL INFORMATION.

> THE PARTY OF THE P SENGTE CONTROL VALVE DETAIL

HALL BE INSTALLED PER BOX TO PROMOTE DRAINAGE.

OLINE SIZE AND INSTALLED IN A RECTAMIGNAR VALVE BOX POROUS MATERIA

DE LINE SIZE AND INSTALLED IN A RECTAMIGNAR VALVE BOX POROUS MATERIA

HALL BE INSTALLED PER BOX TO PROMOTE DRAINAGE.

ACH SPRAY HEADS SHALL BE EQUIPPED WITH THE APPROPRIATE HER PRPAY MEADS SMALL BE MANTER PED SERIES SIX INCH PER-UP TYPE VAICH SMAL BE INSTALLED DW FLEXIBLE SVING JEINTS CONSISTING OF TADEXVALLED TALF PIPE AND INSERE ELEGYS. WIL BE TO ELIMANTE DYERRADU BOTO PAYCHENT, SIECALKIS, AND BUILDINGS WINGLIR LICATIONS ARE SCHIMATE DRIVING WHICH BOTH A PRIME DESCRIPTIVE WINDSCHIMA, SHE LICATION AND ADMINISTRATIVE A PRIME DESCRIPTIVE BRINGLIR LICATION AND ADMINISTRATIVE AND BUILDINGS WINGLIR LICATIONS AND ADMINISTRATIVE AND BUILDINGS WINGLIR LICATIONS.

ROTTOR HEADS SHALL BE HANTER POP SERIES FOUR INCH POPHUP TYPE VACHO SHALL BE INSTALLED ON SYPHS JOINTS CONSISTING OF THICKVALLED POLY PIPE AND 3/4* INSCRIE ELBOYS. IDJUSTMENT FEATURES OF SPRINKLERS SPECIFIED SMALL BE UTILIZED TO
NISURE PROPER COVERAGE WITH MINIMAL UNICESTRABLE OVERTHROW. LOW
NICLE, FLAT SRAW, AND ADJUSTABLE ARC NOZZLES SMALL BE USED TO
DINNIZE DVERTHROW. INNLERS LICANED ADJACENT TO HARDSCAPED AREAS SHALL BE INSTALLED
V FROM HARDSCAPED AREAS TO HARDIZE TURESHOW AND THE CHANCE
DHAME BY VEHICLES, PEDESTRIANS, AND LAWN HAINTENANCE PRESIDNEL,
A CICARRAL RALE, 6' PIDY-UP STRAY HEADS SHALL BE INSTALLED IN 4',
BOTTOR HEADS SHALL BE INSTALLED IN 6').

RENCHING DETAIL (NIS)

Page 2 of 3 of 3

STATISTIC COLUMN

LUCATION OF PUMP STATION SHALL BE VERIFIED ON SITE UMP STATION SHALL BE A PRE-FABRICATED TYPE WITH A CAPACITY OF GPM # 187 FTJ-ID BASIC COMPONENTS SHALL INCLUDE:

(3) AN EXD-SUCTION CENTRIFUGAL PUMP VITH THE CAPACITY NOTED.

(3) A 7.5 MP MOTTOR SELECTED TO MATCH ON SITE ELECTRIC.

(3) U. LISTED CONTROL PANEL ASSEMBLY VITH TYPICAL PROTECTIVE CHROUTEY.

(4) FLDY METER

(5) ALUMBUM DR GALVANIZED SKID

(6) FIRICALASS DRCLIDGUE

(7) ISDLATIDN AND CHECK VALVES

(8) ALUMBUM DR GALVANIZED SKID

(9) ALUMBUM DR GALVANIZED SKID

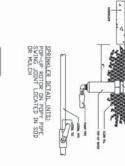
BEENED TO PREVENT THE INTAKE OF HARMFUL DEBRIS INTO THE SYSTEM ATION SHALL BE NOUNTED DN A 6' THICK REDWEDROED CONCRETE SLAB TO COMMODATE THE STATION AND AUXILLARY EQUIPMENT. ATION SHALL BE MANUFACTURED BY IRRIGATION CRAFT OR APPROVED UMAL CONTRACTOR SHALL SUBNIT SHOP DRAWINGS FOR APPROVAL

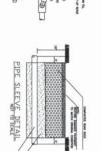
COMPOLER LOATIN SMAL BE APPRIVED BY THE CONTROLLER SMALL BE A
LEO VAC DEVER SUBJECT IS REQUIRED. THE CONTROLLER SMALL BE A
COMPONENT OF THE PUMP STATION. IONISCI, SYSTEM SHALL BE A HANTER I-CORE SERIES ELECTRIC TYPE DE 24 STATUM CONTROLLER SHALL AUTIVATE IB IN-LINE VALVES. A RAIN SENSOR SHALL BE INSTALLED TO CONSERVE VATER. TROLLER SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES HANGFACTURER'S INSTRUCTIONS. PROPER GROUNDING EQUIPMENT LL BE PROVIDED.

AN INDIVIDUAL CONTROL VISE SHALL BE ROUTED TO EACH VALVE AND VALVES WHICH DECENTE SHALL MANDUSLY SHALL BE TEED TOGETHER AT THE CONTROLLES. CALLEGE LEGEN TO THE WAY CONTROL TO LEGEN TO THE CONTROL LEGEN TO THE CALLEGE LEGEN TO THE CA

AUTOWATC VALVE LOCATIONS ARE SCHEMATIC DRLY AND SHALL BE ROLLISTED FIRE ORDITIONS. EACH VALVE SHALL BE INSTALLED IN A RECTANGLAR VALVE SIX A HUMBUR OF THE CUBIC FIRST OF GRAVEL SHALL BE PROVIDED PER BOX TO PROMOTE DRAINAGE. THE RAIN SENSOR SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. THE RAIN SENSOR SHALL BE A COMPONENT OF THE PUMP STATION TIMING OF EACH STATION SHALL BE SET IN THE FIELD TO MATCH LIDEAL RECOMMENDED RUN
RECOMMENDED RUN
THES TO APPLY 1.0 INCHES/VEEK.

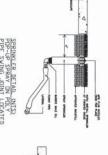
SYSTEM SHALL BE PROGRAMMED TO OPERATE VITHIN THE GUIDELINE STABLISHED FOR PHASE IT VATER RESTRICTIONS.

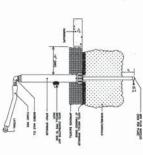


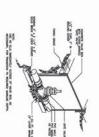


神代のと







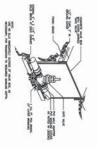


HUNTER I-CORE
AUTOMATIC CONTROLLER

RAIN SENSOR RSD-BEX

明を明 明神

TO POWER SUPPLY CONTROL VALUES AND RESIDENCE SON 40 COND.



GATE VALVE DETAIL

DESIGNED BY KND NECT NO. 2019-22 K Didento

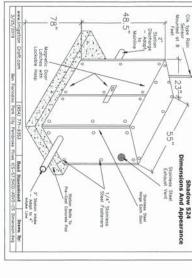
IR-2 WACH 2019 BEN FIORINDINO PARK PEMBROKE PINES, FLORIDA IRRIGATION LEGEND, NOTES, AND INSTALLATION DETAILS

Kenneth DiDonato, P.E.



www.lrrigotion Craft.com (954) 771-9353 | Band Dimensioned | Drawn By: RE 3/25/2019 | Ben Forindrio Park City Perntrole Pines ICS-57/5/CD-45/3-CS Install Surface.dwg

Site conditions (variations in water surface level, sater quality, aqualit growth, bank slopes, etc.), must be accounted for during instalation. Follow these guidelines to achieve best etc.), must be accounted for during instalation. Follow these guidelines to achieve best etc.).





-3

Ē

Fig.

The country - Manually starts some, all five safetiles by-pass except VOLUTE SENSOR.

It was not been been as the start entimatically as required.

C. Auto - The pump shall start entimatically as required.

6. BLEST PUSHBAITTON Respect to the START of the and pressure extension incide and onches the control passe, all roles and a did our mountable hardware shall be be severed and the start of the start of the control passed and so manually and an arrowment on the severed and the start of the st

from delayed. All pick operaturs and throuble indication paid tights shall be mounted on the PLOTES. All pick operaturs and throuble engined bases, one per device.

LAMP TREE & PLANT PROPER (EACL). All paid Test and Allems tallow requested bases, the per device.

LAMP TREE & PLANT PROPER (EACL). All paid Test and Allems tallow requested to the period of the period HOA SELECTOR SWITCH: This switch shall provide Hand, Off, and Auto functions as

SEMBURGH MENDERER JAPKSON LEADINGS EACH, VOIC CONNECTED DESIGNATION TO CONTROL TO CONTROL TO CONTROL THE THROUGHT SHE HAVE AN OF CONTROL TO CONTROL THE THROUGHT SHE HAVE AN OF CONTROL THE THROUGHT SHE OPERATE OF THE CONTROL THROUGHT SHE AND THROUGHT SHE THROUGHT SH

3" Intake Manifold-Adapt to 4" Intake Une

Irrigation Pump Station Specification

City of Pembroke Pines - Pembroke Pines, Florida Ben Fiorindino Park

March 25, 2019

A. U.B. SOBA - Enclosed Industrial Control Panel - File Number E208950.
B. U.B. QCZJ - Packaged Pumping System - File Number E143693.

1. ELECTRICAL ENCLOSURE à ROBUTTRIG: I'lle covere band enclaire shall le filosophies, Type 4, or 1604, The circlosure shall be marches to "Type 4 or 1604," The circlosure shall be morated on an aluminum marches to "Type 4 or 1604," The circlosure shall be morated on an aluminum souther to "Type 4 or 1604," The circlosure shall be morated on the destroited around by the shall be of level; also power. The order load presented to the destroited around by the shall be level as the shall be the shall be the shall be a not the circles around by the Type 4 or 15 amorates of \$2.00 which \$2.00 when \$0.00 miles of the order of the demonstration. CONTROL NUMBER: The destroited parel shall be ideal as an ENCLOSED INDIVIDUAL CONTROL NUMBER: \$1.00 miles parel shall be ideal as an ENCLOSED SHALL CONTROL NUMBER: \$1.00 miles parel shall be controlled assumed preventing discovered; shall not shall be accomplished with those a model of secretary beater. In the Control of the Control protection in the pumps station control panel shall be accomplished with the opposite passed whether, the carbon of the control of accomplished on the pumps stations control panel shall be accomplished with the opposite passed with stations.

Attachment H

fequipment Stud, Enclosure & Ventilation
All pump station explored with all the score mounted on a webdet aluminum stud
All pump station explored with all the scores mounted on a webdet abuninum control presess. The entire pump station main be enclosed
with b' (Thick based Statington, Vin including) averaged down providings consiste access to
suppliment, all doors studie as examply ladd closed by magnitic consist and found or suppliment, all doors studied scores to late of the score of the scor

Plump & Motor

The jump shall be a Goulds 1956 horizontal, and scritin, close coupled exit inno case.

The jump shall be a Goulds 1956 horizontal, and spring shall provide 70ppm @ 55ppl station state in moral plump shall be driven by a 7.5 horsepower Premium Efficiency TEFC exclused motor.

Variable Frequency Drise (VPD)

Variable Frequency Drise (VPD)

The VTD sale be rated for 7.5 horsepower and mounted inside the station enclosure. The VTD sale be protected against transper voltages with MOV surge and lightning protection. The VTD enclosure shall be If Type 12. The VTD environment shall be maintained per manufacturer's recommendation.

Station Flow Meter

Station Flow Meter

The flow meter will be a Netalim model 36WN82710.2" in line turbine with a magneticall direct, sealed analog register, polyeider coated cast iron body. The meter will indicate flow rate and total flow via analog register display.

BEN FIORINDINO PARK PEMBROKE PINES, FLORIDA

IRRIGATION PUMP STATION

Kenneth DiDonato, P.E. CONSULTING ENGINEER
GOLF COURSE & COMMERCIAL IRRIGATION DESIGN
2210 HOLLYWOOD BLVD., HOLLYWOOD, FLORIDA 33020
(954) 923-2555

PROJECT NO. 2019-22
DRAWN BY KNUD
DESIGNED BY KNUD
SCALE: N.T.S.
DATE: WACH 2019 K D.D. do IR-3

Page 3 of 3 of 3