

3100 SW 15th Street Deerfield Beach, Florida 33442 Office:(954)426-1221

Fax:(954)426-1226

City of Miami Beach Capital Improvement Projects Office 1700 Convention Center Drive Miami Beach, FL 33139

May 11, 2021 Sent Via Email

Attn: Sabrina Baglieri

Re: West Ave 091 - North

Subj: Change Order Review - RMCF Submission dated April 21, 2021

CMA Comment Sheet Received 4/28/21

Revision #1

10 Year Storm Piping & Structures \$ 2,801,335 WTS Relocation \$ 3,290,898 Water Quality \$ 11,180,539 Commodity & Subcontractor Escalation \$ 1,486,952 RMCF Labor Escalation \$ 416,765 Time Extension 1961 Cal Days

Sabrina.

In response to the change order review conducted yesterday 4/28/21 wherein RMCF received CMA's comment sheet (attached) we offer the following response and clarifications to our proposal sent on 4/21/21. RMCF revises its original submission dated 4/21/21 to account for errantly including of 2.1B pricing from the 8/7/19 proposal in the evaluation, and certain reductions in rebar, redimix quantities based on further developed WQ design, commodity and labor escalation was revised accordingly.

Pump Station Design - Items 1-4

Comments have been sent to CES for formal response and will be submitted to the City under separate cover.

Storm Drainage Design 2016-KB 60%, Phase II North of 14th Street resubmittal dated 4/2/21 and Change Order Submittal.

Item 1 - RMCF provided detailed cost and support documentation in its 4/21/21 submittal. However, as discussed, we can re-organize the submission to the City's format (template) at your direction upon approval of the Change order amount including scope clarifications contained therein.

Item 2 - Commodity escalation was detailed in RMCF's proposal letter with documentation provided on escalations from the U.S Bureau of Labor Statistics which confirms at least a 3.6% average increase in pricing January 2020 through February 2021. This factor was applied to specific commodities shown on the submitted spread sheet. Escalations quoted by Subcontractors and main/critical suppliers such as Flygt pumps, DI pipe, Asphalt and Electrical where direct quotes



3100 SW 15th Street Deerfield Beach, Florida 33442 Office:(954)426-1221

Fax:(954)426-1226

from RMCF's suppliers under contract presently and are listed separately. These submissions reflect the most up to date pricing available.

- **Item 3 -** RMCF offered in lieu of a fixed escalation adjustment that the City consider an escalation clause to protect RMCF and the City from volatile swings in material pricing, particularly steel and lumber.
- **Item 4** Labor escalation was provided at 3% and deemed reasonable. The hours provided are actual anticipated work hours for RMCF labor for the base and changed work escalated at .25% per month taking into account CO 3B escalation already approved. The 0.25% per month factor was extended to substantial completion. (see submitted spread sheet for dates and calculation.)
- **Item 5** The credits provided are identified on the revised spread sheets attached with back-up from the CO # 3B approved amounts. See item E below for further clarification.
- **Item 6** All available back-up has been provided. RMCF's HCSS estimating and summary sheets with full costing breakouts and work hour/equipment calculations were provided. Certain old CES proposals were included for reference in the correspondence section of the submission as referenced in the cover letter.
- Item 7 Not applicable.
- **Item 8** The full 60 % submittal of the WQ wells will be submitted shortly under separate cover. The 30% drawings which depict the location and arrangement of the wells including mechanical and electrical details have been submitted to e-builder.
- **Item 9** Detail of the connection to the trunk lines are shown on the details provided in the 60% drainage submission.

Other items:

- A- RMCF has revised the cost sheets to designate the applied 5% Subcontractor mark-up and 10% RMCF mark up, accordingly.
- B- RMCF attaches back-up for the Bond and Insurance premium re-calculation of actual = 1.44%.
- C- RMCF includes the engineering fee adder for the 17th street sea wall and Lincoln road sea wall re-design. Construction costs for both Seawalls is included in the proposal.
- D- Conflict structure costs have not been included in either the August 7, 2019 proposal (not acted upon by the City) or the current pricing which supersedes the August 7 proposal due to the fact that FPL has not settled on relocation or payment to RMCF for installing these conflict structures. Further, CO 3B item 17 did not contemplate conflict structures since the utility plan was in its infancy at the time of submission and pricing was based solely on AECOM's drainage map. In either case, either FPL relocates their ductbank with others or pays RMCF for the new conflict structures under a contract arrangement.



3100 SW 15th Street Deerfield Beach, Florida 33442 Office: (954) 426-1221 Fax:(954)426-1226

E- The Drainage Piping was re-calculated based on our incorrect assumption that the 2.1B proposal dated 8/7/19 was an actual change order. 2.1B was never acted upon by the City as a change. Therefore, no credit for the 96" pipe is forth coming. The final changes have been adjusted off of CO 3B item 17. (see attached documentation package)

Please contact me if you require additional information.

Sincerely,

Michael R. Fischer, COO

Ric-Man Construction Florida, Inc.

Attachments:

- CMA West Ave C.O. Review Meeting Comments
- RMCF's Performance and Payment Bond Rates
- Brown & Brown Policy Premium Summary
- CES Proposals dated 5/7/21 (2 Ea.)
- Commodity and Subcontractor Escalation Rev 1 5/11/21
- Escalation RMCF Direct Labor Rev 1 5/11/21
- Revised Cost Spread Sheet and HCSS Summaries (WQ, WTS Relo & Drainage) Rev 1 -5/10/21
- Quantity Comparison Structures

CC:

Danny Mancini Tyson DiPetrillo Dan LaCross Rafael Vega Jose Caraballo Jorge Rodriguez

Nick Karpathy - Chen Moore

2103 Coral Way, Suite 401 Miami, FL 33145 Office: +1 (786) 497-1500



WEST AVENUE STORM DRAINAGE DESIGN CHANGE ORDER REVIEW MEETING COMMENTS 4/28/2021

GENERAL COMMENTS:

PUMP STATION DESIGN - 60% SUBMITTAL DATED 3/22/2021

- 1. Need to Clarify heading on sheet PS-M01 "Pump Design Criteria" and "Pump System Design Notes", what pumps they are referring to (primary pumps and sump pumps).
- 2. The plans show five (5) primary pumps with one (1) backup pump at 19,750 GPM (44 CFS), what is the Pump Station Maximum Flow based on?
- 3. Drainage well conductivity is given as 500 GPM/FT of Head. Has this value been verified? Has a Reasonable Assurance Report been done to justify the assumed flow? Please advise
- 4. Cannot determine if the proposed well design is providing an adequate bypass with a design elevation of 6.50 FT-NAVD. Please provide.

STORM DRAINAGE DESIGN 2016-091-KB 60%, PHASE II NORTH OF 14TH STREET RESUBMITTAL DATED 4/02/2021 and CHANGE ORDER SUBMITTAL

- 1. First and foremost, this submittal is a compilation of documents put together that do not have the format, or organization that we need in order to create a Change Order. Provide a Request for Change Order document with Exhibits numbered and organized.
- 2. Material escalations can vary from time to time and even day to day and are subject to revisions up to 4 months after estimated. Projects of this magnitude can command a better negotiated price with suppliers that does not always include the higher of the average increases. Please provide the most up to date pricing available with this submittal.
- 3. Perhaps a clause can be stated that a credit for materials needs to be returned to the City if prices do go down during the life of the project.
- 4. The labor escalation of 3% per year seems reasonable. However, no back-up was provided in this package to compare the man-hours being claimed with the previous man-hour estimates. Please provide.

2103 Coral Way, Suite 401 Miami, FL 33145 Office: +1 (786) 497-1500



STORM DRAINAGE DESIGN 2016-091-KB 60%, PHASE II NORTH OF 14TH STREET RESUBMITTAL DATED 4/02/2021 (cont.)

- 5. Some of the credits for the new "Drainage" spreadsheet (10yr increase + WTS) are not identified. Please identify.
- CMB/CIP will need more detail to evaluate the new prices in these proposals. Almost ½ of the back-up package consists of the old e-mails and CES proposals that have already been evaluated.
- 7. The estimated increase in the duration of the project has not changed.
- 8. Plans did not include any details on the water quality pump stations (graphic views but no callouts, sections, or insets).
- 9. The direct connections of future yard drains/stub-outs to trunklines take into consideration system maintenance to prevent blockages and provide for cleaning?

STORM DRAINAGE DESIGN 2016-090-KB 60%, PHASE II SOUTH OF 14TH STREET RESUBMITTAL DATED 4/02/2021 and CHANGE ORDER SUBMITTAL

- 1. In the narrative, please clarify conflict structures as required by 60% design drawings and specifically excluded by August 7, 2019 correspondence.
- 2. In the narrative for subcontractor commodity escalation, complete backup must be provided to justify the proposed cost.
- 3. In the narrative for Water Quality Enhancements utility relocations as needed shall include details describing what is affected now that was not affected before.
- 4. Provide the previous amount RMC was considering for labor escalation.
- 5. Provide back up for Water Quality enhancement cost: clarify subcontractor markup percentage and estimated amounts, GC markup, bond and insurance percentage.
- 6. All the info must be referenced as exhibits in the narrative.
- 7. Plans did not include any details on the water quality pump stations (graphic views but no callouts, sections, or insets).
- 8. The direct connections of future yard drains/stub-outs to trunklines take into consideration system maintenance to prevent blockages and provide for cleaning?



C91 North

CUYALUR

19,155

RIC-MAN CONSTRUCTION FLORIDA, INC. PERFORMANCE AND PAYMENT BOND RATES

For first \$100,000 contract value \$10.80 per \$1,000 2,400,000 contract value For next 7.56 per \$1,000 For next 2,500,000 contract value 6.48 per \$1,000 For next 5,000,000 contract value 5.64 per \$1,000 For over 10,000,000 contract value 4.56 per \$1,000

> 1. 1080 100,000 7. 18144 Z,400,000 3. 16,200 2,500,000 4. 28,200 5,000,000 5. 71,746 106,370

106,370 19,155,000 = 0.56 70



BROWN & BROWN OF DETROIT, INC.

35735 MOUND ROAD

STERLING HEIGHTS, MI 48310

PHONE: 586-977-6300 | FAX: 586-977-6780

WWW.BBDETROIT.COM

Ric-Man Construction Florida, Inc 3100 SW 15th Street Deerfield Beach, FL 33442

RE: Policy Premium Summary

Policy #'s; A-5CAA-0001702; ZUP-16N53072-20-NF; A-5CGA-001702; QT-660-72N270023; SXS 7186303-01

To Whom it May Concern,

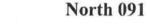
Included are the policy premiums for Ric-Man Construction Florida, Inc for their insurance years.

	W/ Labor		W/ Labor	
Policy Year	General Liability	Automobile	Umbrella	Installation/Equipment
2019-2020	\$222,560 (\$51.74 rate)	\$90,000	\$123,000	\$19,828
2020-2021	\$368,869 (\$67.21 rate)	\$150,660	\$160514	\$22,525
2021-2022	\$287,017 (\$68.45 rate)	\$175,992	\$230,000	\$30,251

Please direct any additional inquires to my attention. Thank you.

Sincerely,

Brian Pilarski C.I.C.; M.B.A.; L.I.C. Commercial Insurance Agent Resident Counselor Surplus Broker



2019-2020 = \$109,828 / \$34,278,000 = 0.32% 2020-2021 = \$173,185 / \$39,693,000 = 0.44%

% Inc = 38% - Contract Completion 1/2025 Allow 3 Years @ 15% Inc = 45% Inc 0.44% x 1.38 = 0.61 + 45% Escal = 0.88

Carry 0.88

City of Miami Beach

Design / Build Services for West Avenue Improvements Phase II North of 14th Street

2016-091-KB

Lincoln Road Bulkhead Redesign
Scope of Services

May 7, 2021

Prepared By:



880 SW 145th Avenue, Suite 106 Pembroke Pines, Florida 3302



City of Miami Beach
D/B Services for West Avenue Improvements
2016-091-KB
Lincoln Road Bulkhead Redesign
Scope of Services

INTRODUCTION

At the request of the City of Miami Beach, CES Consultants, Inc. (CES) is pleased to submit this proposal to perform a redesign of the Lincoln Road Bulkhead. Due to the relocation of the Lincoln Road Pump Station, the bulkhead at the west end of Lincoln Road requires a complete redesign to remove the bulkhead and rework the connection between the Baywalk and the bulkhead.

DESCRIPTION OF SERVICES

Services to be provided shall include, but are not limited to, the following activities:

1. Project Coordination and Meetings.

CES will host or participate in meetings with the Project Team to coordinate and review the design approach. Additionally, CES will manage communication between its subconsultant and the client.

2. Lincoln Road Bulkhead Improvement Redesign.

CES's subconsultant will redesign the waterfront bulkhead improvements to raise the bulkhead at Lincoln Road from the existing elevation at +3.0 NAVD up to the minimum elevation required by the City which is +5.70' NAVD. Based on design plans for the existing wall dated 2008 (constructed in 2010 timeframe), CES's subconsultant envisions a retaining wall concept to raise the elevation. Alternatively, a new sheet pile wall could be driven landward of the existing bulkhead. An 18-inch and a 36-inch culvert penetrate the bulkhead, both with backflow preventors that are currently located in drainage structures behind the bulkhead. If needed, the concrete retaining wall concept will facilitate accommodating these structures unless the Right of Way construction will abandon these culverts. In addition, an FPL duct bank extends under the existing bulkhead. This scope of work does not address a new sheet pile wall waterward of the existing wall. Connections to the proposed Baywalk will be coordinated. Additionally, this scope of work is to provide design services from 0% to 100%. The original task was 100% complete prior to this modification.

3. Lincoln Road Bulkhead - Baywalk Connection.

CES's subconsultant will design connection details for the proposed overwater Baywalk segment coming into the south end of the Lincoln Road shoreline from the first pile bent, over the existing bulkhead to the top of the wall landward of the existing bulkhead. This additional design work will be completed concurrently with the Baywalk Design.

4. Lincoln Road Bulkhead Design Coordination Meetings.

CES's subconsultant will participate or attend virtual meetings with the Project Team to coordinate and review the design approach. Due to COVID 19, CES's subconsultant will conduct these meetings with on-line collaboration tools such as WebEx, etc. Approximately ten (10) hours are budgeted. The Client will be advised if additional meetings are required for any reason.



City of Miami Beach
D/B Services for West Avenue Improvements
2016-091-KB
Lincoln Road Bulkhead Redesign
Scope of Services

5. Lincoln Road Bulkhead Building Permitting Consulting.

CES's subconsultant will review and respond to comments from the City building department as the Client processes the plans through the building department. Approximately ten (10) hours are budgeted for this effort to include some CAD design hours for revisions to drawings.

COMPENSATION

Compensation for this activity will be based on required effort. The total compensation for this effort will be \$44,217.04. Please see attached spreadsheet for details and individual amounts for each task.

Detailed Breakdown of Proposed Lincoln Road Bulkhead Change Order

C.O. Task No.	C.O. Task Name	C.O. Contract Amount
1	Project Coordination and Meetings	\$13,217.04
2	Lincoln Road Bulkhead Improvement Redesign	\$18,000.00
3	Lincoln Road Bulkhead – Baywalk Connection	\$10,000.00
4	Lincoln Road Bulkhead Design Coordination Meetings	\$1,500.00
5	Lincoln Road Bulkhead Building Permitting Consulting	\$1,500.00
	TOTAL	\$44,217.04

West A	venue	Phas	se II	- Nort	h Con	tract	(091)	- Bay	walk	and	Lince	oln Ro	oad B	ulkh	ead F	tedes	ign		
TITLES	Principal	Project Manager EOR	DA/DC	Engineering Manager	Senior Civil Engineer	Structural	Electrical	Hydraulio	Project Engineer	Civil Engineer	Staff Engineer	Designer / CAD Manager	CAD Designer	Inspector	Public Relations Coordinator	Accounting	Admin,	Total Hours	Total Loaded Labor
CONTRACT RATES	\$ 362.50	\$ 267.93	\$ 233.54	4 \$ 209.15	\$ 226.93	\$ 217.50				\$ 130.60	\$ 104.52	\$ 116.00	\$ 98.60	\$ 169.50	\$ 152.25	\$ 115.71	\$ 78.10		
	The second		STATE OF THE		A CHARLES	-		ange Orde			Control of the	Dept. Bright	7 - 10 24	100	ON BUILDING	0.000	1993		-
1 Project Coordination and Meetings	1	- 40	1	T		Man	agement, uu	ilty Control, a	20	anon								60 5	13.21
JB-TOTAL	POLICE TO SERVICE TO S			0000000	4 million (1972)	1000	-		100		ALC: NO	10000	or other transmission of the last of the l	-	STEEL STORY		MARKE BY		13,217
	will be a second	District His		ALL VALUE OF			51	b-Consultant	3			BANKS.					Contract of		
Lincoln Road Bulkhead Improvement Redesign																			18.00
Lincoln Road Buikhead - Baywalk Connection					and the same of th											1		5	10.00
Lincoln Road Bulkhead Design Coordination Meetings																			1.50
Lincoln Road Bulkhead Building Permitting Consulting																			1.5
B-TOTAL	Con 1985	2000				The same of the									And a second			5	31,00
OTAL HOURS PER TITLE		4)	SHOPE	The state of	THE PERSON		Hampines.	SECURE LAND	20		STATE OF	THE RESERVE				The latest and the la	-	60	44,217
OTAL FEE PER TITLE:	16	E 10:317.04	1	Action 18	9	1 1 1	Part of the last	1	\$ 2,900.00	3	5		A COLUMN TO SERVICE AND ADDRESS OF THE PARTY	1	1	1	B. Company		

ES Conculturity Inc.

17/2003

.....

Moffatt & Nichol Project Fee Proposal

Allaher Marie Meriden Allaher Allahe							6664	(dest)	-	gas flatt esp till estapolity		}			
1. 排版·维尔·民间与研		Imperviewry Rose 201 g-2	150	ERU ELL/E/m/LA	1 (± + + + + + + + + + + + + + + + + + +	619.7721 1-3	2:32: Eng. 1-1, 1-2	Feldica Testina 17-5	Tentigher Tel	0440 11 753	out t	Nigh Factorias Ann. Ann.	Granul Clarital		LAUT
Title Interior Factor Title Tit	2.400 2.400 2.400 2.400 2.400	#3/05,60 1,000 2,000 6,000	\$154,60 \$10,00 \$2,00	2100 2100 2100 8100	93.55.000 281.000 22.000	4150-55	# 10 A	#136,246	110.46	\$51,00 203,00 50,00	\$100.000	2257/10 2277/11/20 1/20 1/31/20 2/31/2	at \$5.00	Hote2	TVD8 \$13,002,003 \$14,002,003 \$14,003,003 \$1,003,00
TOTAL MAN-MONES	2,00	31,000	15.00 53.615.00	3,00	67(20h 81250h-60	6,00	2001.08	0.0	6,00	143,70	0,00	4.29	A,60	170,0	\$0,00 231,000.0
111. order surre A. Sactional taster 1. 3. 4. 4. 5. 5. 6. 6. 7. 7. 7. 7. 7. 7. 7. 7	\$10 \$17 \$10 \$10 \$10 \$10 \$20 \$20 \$20 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$1	Harting 2: 10 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Total 20 20 20 20 20 20 20 20 20 20 20 20 20		19. Est		Total Man L Total Sare Total Mac Hantage of the Hadage of the Total Pro	nemitari () Direct Con Lournabati Car	CENE.				\$31,000		
E. OLDAT Careat Alatana Alatana Adding basis IDleage Kental Cas Contain to Expression this Fortage Careat Fortage Careat Telephonometry Telephonometry Telephonometry Schitzsplagage and	\$0 \$0 \$0 \$0 \$1 \$1 \$1 \$1 \$1 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5	10 = 5 11 A = 5 11 Z = 5	6) 6) 6) 6) 6) 7) 6) 6) 6)						-	L.		ı			

City of Miami Beach

Design / Build Services for West Avenue Improvements
Phase II North of 14th Street

2016-091-KB

17th Street Bulkhead, Dissipator, Discharge Piping, and Junction Box Structures Design

Scope of Services

May 7, 2021

Prepared By:



880 SW 145th Avenue, Suite 106 Pembroke Pines, Florida 33027



17th Street Bulkhead, Dissipator, Discharge Piping, and Junction Box Structures Design Scope of Services

INTRODUCTION

At the request of the City of Miami Beach, CES Consultants, Inc. (CES) is pleased to submit this proposal to perform a design of the 17th Street Bulkhead, discharge piping, and junction boxes. Due to the relocation of the Lincoln Road Pump Station, the bulkhead at the west end of Lincoln Road requires a complete redesign to remove the bulkhead and rework the connection between the Baywalk and the bulkhead. Additionally, due to the relocation of the Lincoln Road Pump Station, the bulkhead located at the Northwest corner of the intersection of West Avenue and 17th Street requires a complete design to incorporate discharge piping and a dissipator.

DESCRIPTION OF SERVICES

Services to be provided shall include, but are not limited to, the following activities:

1. Project Coordination and Meetings.

CES will host or participate in meetings with the Project Team to coordinate and review the design approach. Additionally, CES will manage communication between its subconsultant and the client.

2. 17th Street and 1671 West Avenue Junction Box Structures.

CES will complete the engineering/structural design of the 17th Street and 1671 West Avenue junction box structures. CES will incorporate review comments as the design progresses. Technical specifications will be incorporated into the construction plans, with City details incorporated as appropriate.

3. 17th Street Engineering Site Visit.

CES's subconsultant will visit the site to obtain field measurements of the existing bulkhead along Dade Canal. The system is most likely a concrete pile/panel wall system with batter piles in lieu of tie backs. Field measurements will be obtained to verify as-built conditions. Existing utilities will be noted, and the utility routing design will be reviewed. Field notes and photographs will be taken, and the topographic survey will be reviewed in the field.

4. 17th Street Preliminary Dissipator Design.

CES's subconsultant will design a concrete dissipator box that will generally align with the back side (landward) of the existing bulkhead. The depth of the invert will be coordinated with the outfall pipes. CES will provide the maximum flow and velocity of the pumped discharge entering the dissipator box for CES's subconsultant to evaluate hydraulic forces on the structures. The dissipator box will be designed to be either cast-in-place or precast concrete. The existing bulkhead will be reviewed in terms of potential loads induced on the existing wall from the dissipator box, as support piling may be required so as not to overload the existing wall. Calculations will be performed, as the City will require these checks so the existing structure is



17th Street Bulkhead, Dissipator, Discharge Piping, and Junction Box Structures Design Scope of Services

not impacted. This design approach assumes the existing bulkhead is a concrete pile/panel bulkhead, and CES's subconsultant will design penetrations through the panels to connect the dissipator box. These penetrations will likely be 2 feet tall by 4 feet wide (or possibly wider), assuming the king piles are spaced on 10-foot centers. Structural detailing will be required to modify the concrete panels, and manatee grates will be specified, as applicable to comply with regulatory requirements. A riprap apron will be designed at the toe of the bulkhead to protect the adjacent channel from erosion. If an alternative design is required due to environmental impact concerns, the Client will be advised of any additional design effort required to be addressed under an addendum scope of work. CES's subconsultant will provide the number of dissipator penetrations, and the Client will evaluate the estimated flow and velocity from the 120,000 gpm pumps to ensure hydraulic performance of the dissipator system.

5. 17th Street Final Dissipator Design.

CES's subconsultant will complete the engineering design of the marine structure and advance the plans to 100% design. CES will provide review as the design progresses, and comments will be incorporated. Technical specifications will be incorporated into the construction plans with FDOT standard specifications and City details incorporated as appropriate.

6. 17th Street Design Coordination Meetings.

CES's subconsultant will participate or attend virtual meetings with the Project Team to coordinate and review the design approach. Due to COVID 19, CES's subconsultant will conduct these meetings with on-line collaboration tools such as WebEx, etc. Approximately ten (10) hours are budgeted. The Client will be advised if additional meetings are required for any reason.

7. 17th Street Building Permitting Consulting.

CES's subconsultant will review and respond to comments from the City building department as the CES processes the plans through the building department. Approximately twenty (20) hours are budgeted for this effort to include some CAD design hours for revisions to drawings.

Analysis and Revision of Maintenance of Traffic (MOT) Plans, due to the Pump Station Relocation.

CES's subconsultant will analyze and revise the Maintenance of Traffic (MOT) plans to address relocation of the proposed pump station. Two (2) additional MOT phases will be added: Phase #10 and Phase #11. Phase #10 will include a roadway closure along West Ave (from Lincoln Road to south of 17th Street), to allow for the installation of the proposed pump station and discharge piping. Phase #11 will include a roadway closure along 17th Street (from Dade Boulevard to just east of West Ave), to allow for the installation of the proposed discharge piping.

9. MOT Permit Processing and Meetings.

CES's subconsultant will represent the Project before agency staff, confer with staff to further advise them of the details of the Project, answer questions and address staff comments or requests for additional information. The Miami-Dade County Maintenance of Traffic (MOT) permit



17th Street Bulkhead, Dissipator, Discharge Piping, and Junction Box Structures Design Scope of Services

was issued on 2/18/2020; this permit can be extended by submitting the revised MOT plans. The FDOT General Use permit for MOT was issued on 9/25/2019 and expired on 9/24/2020. Since this permit cannot be extended, a new FDOT permit application and processing is required to obtain the MOT permit. CES's subconsultant will prepare the FDOT permit application and process the revised plans approvals. Miami Beach Public Works Department approved the MOT plans on 9/25/2019; reprocessing will be needed once the revised MOT plans are finalized.

10. Additional Survey for Discharge Piping and MOT Temporary Signalization

CES's subconsultant will provide a topographic survey for the following survey limits: Along West Avenue (between Lincoln Road and Dade Boulevard), along 17th Street (between Dade Boulevard and West Avenue), and along Dade Boulevard (between Sunset Harbour Drive and West Avenue). Survey information along Dade Boulevard is required to develop temporary signal plans and additional detours for street closures. Horizontal and vertical control points will be set, and right-of-way information will be collected within the survey limits. CES's subconsultant will locate the following aboveground improvements: trees, palms, concrete slabs, sidewalks, signs, fire hydrants, aboveground utilities, poles, catch basins, manholes, overhead lines, etc. CES's subconsultant will collect elevations equivalent to a fifty (50) foot grid and will include crown-of-road, back of sidewalk, edge of pavement, and lowest adjacent/highest adjacent elevations. CES's subconsultant will also collect existing drainage and sanitary sewer information such as: rim elevation, pipe size, pipe material, pipe direction and inverts. The Survey will be referenced to the Florida State Plane Coordinate System based on the North American Datum of 1983/2011 (NAD83/11) and elevations will be referenced to the North American Vertical Datum of 1988 (NAVD88).

11. Bathymetric Survey

CES's subconsultant collect five (5) cross-sections within Collins Canal using a Single-Beam Sonar Scanner. Spot elevations will be collected throughout the canal and will include top of bank, edge of water and top of sediment. Additionally, CES's subconsultant will attempt to collect the bottom of the canal. The Survey will be referenced to the Florida State Plane Coordinate System based on the North American Datum of 1983/2011 (NAD83/11) and elevations will be referenced to the North American Vertical Datum of 1988 (NAVD88).

12. 17th Street Dissipator Environmental Permitting.

CES's subconsultant has not yet consulted with the environmental agencies regarding this redesign of the pumped stormwater discharge into Dade Canal. Based on the services outlined in the Dissipator Design, the existing pile/panel wall will be modified, and a scour apron will be placed along the seabed within the canal such that a Miami-Dade County Division of Environmental Resources Management (DERM) Class I Permit will be required. This scope assumes that no seagrasses are present in the Project area, or that the scour apron can be sited to avoid seagrass impacts, such that the Project will qualify for a State Environmental Resource Permit (ERP) "de minimus" exemption and DERM and the U.S. Army Corps of Engineers (Corps) will not require any mitigation. It is assumed that National Marine Fisheries Service (NMFS) individual project consultation, scour or water quality studies, elevated authorizations, and/or mitigation calculations/design will not be required and that NMFS/Corps Jacksonville District



17th Street Bulkhead, Dissipator, Discharge Piping, and Junction Box Structures Design Scope of Services

Statewide Programmatic Biological Opinion (JaxBO) compliance can be verified without significant debate. It is assumed that there will be no submerged lands use issues, special easement considerations, separate/additional land use authorization requirements or water quality concerns raised in the context of the marine structures permit applications.

CES's subconsultant will provide for the permit application packages Construction Plans, a construction methodology narrative, turbidity control plan, and information regarding the project design and construction details, as appropriate. It is assumed that the Project does not require County Commission approval or Environmentally Sensitive Lands review for any reason and there will be no public comments/objections.

While we make every effort to keep our fees within estimates quoted, additional costs may be incurred due to circumstances beyond our immediate control, including but not limited to, rule or procedural changes, agency staff changes/delays, or legal actions. Please note that we cannot guarantee a particular outcome with agency staff in permitting negotiations.

13. Environmental Permit Consultations / Strategy.

CES's subconsultant will review Project background documents provided by the City and advise regarding any concerns or additional data collection needs. CES's subconsultant will draft a DERM Biological Assessment (BA) request and agent authorization letter for signature by the City and provide to the Client for execution. The City will directly provide payment of the BA fee in the amount of \$854.63 electronically or via check; please note that a \$530 credit toward the permit application fee will be provided if a Class I Permit application is submitted while the biological assessment is still valid. CES's subconsultant will submit the Biological Assessment request to DERM and follow up relative to scheduling the site visit. It is assumed that the DERM BA will be completed withing the federally recognized seagrass growing season between June 1 and September 30 and that an additional/independent biological assessment will not be required for any reason. The location of any seagrasses within the Project vicinity will be used to inform the Project design.

CES's subconsultant will coordinate and conduct initial remote (online or telephone format) preapplication consultation discussions with Corps, State and Miami-Dade County DERM staff
regarding the proposed Project scope and schedule. Florida Department of Environmental
Protection (FDEP) versus South Florida Water Management District (SFWMD) jurisdiction will be
discussed/confirmed based on site permitting history or other factors. Key regulatory compliance
criteria will be discussed with agency staff, such as direct and secondary environmental impact
avoidance/minimization. CES's subconsultant will provide to the Client a summary of initial
environmental permitting agency feedback and advise regarding any concerns, recommendations
and/or action items. Environmental permitting scope assumptions will be reviewed and confirmed
or refined at this early point in the Project. Approximately sixteen (16) hours are budgeted for this
effort; the Client will be advised if additional scope/budget is required for any reason.



17th Street Bulkhead, Dissipator, Discharge Piping, and Junction Box Structures Design Scope of Services

14. Corps Permit Application.

CES's subconsultant will prepare a draft Corps permit application package and submit it for City review and signature prior to submittal to the agency. This scope of work assumes that a request for Nationwide Permit (NWP) verification will be submitted and that the Project design will meet all NWP conditions, including 1 cy/foot maximum volume for scour protection. It is assumed that no permit fee will be required.

15. ERP Exemption Application.

CES's subconsultant will prepare an Environmental Resource Permit (ERP) exemption verification request package and will submit it to the Client for City review and signature prior to submittal to the agency. The City will directly provide payment of the permit application and issuance fees electronically or via check upon agency confirmation of the amount due. This scope of work assumes that the Project will qualify for an exemption.

16. DERM Class I Permit Application.

CES's subconsultant will prepare a DERM Class I Coastal Construction Permit application package for the proposed Project and submit it to the Client for City review and signature. The City shall provide signed application forms and recorded warranty deeds or other property ownership evidence. The City will directly provide payment of the permit application and issuance fees electronically or via check upon agency confirmation of the amount due. CES's subconsultant will submit the permit application package to DERM. This scope of work assumes that the Project will qualify for a short form permit.

17. Environmental Permit Processing.

CES's subconsultant will represent the Project before agency staff, confer with staff to further advise them of the details of the Project, answer questions and address staff comments or requests for additional information. CES's subconsultant will maintain communications with agency staff to expedite their review and processing of the permit applications. CES's subconsultant will draft NMFS JAXBO consultation forms, if requested by the Corps or DERM project manager. CES's subconsultant will confer with the Client, and/or other Project team members as to questions, revisions, or additional items that may be required by agency staff. CES's subconsultant will submit the construction drawings for DERM Class I preliminary stamp of approval and provide these plans to the Client to process for City Structural and Zoning approval, which is required prior to DERM Class I permit issuance. The Client will provide a DERM Class I Permit contractor letter noting contact and license information prior to permit issuance, if required, or in satisfaction of permit conditions.

18. Environmental Permitting Meetings.

CES's subconsultant will coordinate and participate in meetings with the Client, City and/or regulatory agency staff, as appropriate, to discuss environmental permitting strategy, review permit-related documents, review agency requests for additional information and draft responses,



17th Street Bulkhead, Dissipator, Discharge Piping, and Junction Box Structures Design Scope of Services

or to address other permitting matters. Approximately sixteen (16) hours are budgeted for this effort; the Client will be advised if additional scope/budget is required for any reason.

COMPENSATION

Compensation for this activity will be based on required effort. The total compensation for this effort will be \$174,468.32. Please see attached spreadsheet for details and individual amounts for each task. Additionally, a credit will be issued to City of Miami Beach for the following tasks from the original agreement:

Detailed Breakdown of Proposed Lincoln Road Bulkhead Redesign and 17th Street Bulkhead Design Change Order

C.O. Task No.	C.O. Task Name	C.O. Contract Amount
1	Project Coordination and Meetings	\$27,014.08
2	17th Street and 1671 West Avenue Junction Box Structures	\$34,704.24
3	17th Street Engineering Site Visit	\$1,800.00
4	17th Street Preliminary Dissipator Design	\$8,900.00
5	17th Street Final Dissipator Design	\$13,400.00
6	17th Street Design Coordination Meetings	\$1,500.00
7	17th Street Building Permitting Consulting	\$3,000.00
8	Analysis and Revision of Maintenance of Traffic (MOT) Plans, due to the Pump Station Relocation	\$13,800.00
9	MOT Permit Processing and Meetings	\$19,600.00
10	Additional Survey for Discharge Piping and MOT Temporary Signalization	\$15,950.00
11	Bathymetric Survey	\$5,000.00
12	17th Street Dissipator Environmental Pern	nitting
13	Environmental Permit Consultations / Strategy	\$2,800.00
14	Corps Permit Application	\$3,000.00
15	ERP Exemption Application	\$3,000.00
16	DERM Class I Permit Application	\$3,000.00
17	Environmental Permit Processing	\$15,000.00
18	Environmental Permitting Meetings	\$3,000.00
100000	TOTAL	\$174,468.32

West Ave			Disc	harge	e Pipir	ıg, an	ıd Ju	nctio	n Box	Stru	cture	s Des	ign			•			
TITLES	Principal	Project Janager EOR	PANGC	Ingineering	enior Civil	ingineer	Sectrical	lydraulic	roject	ivii Engineer	tall Engineer	esigner? AD Manager	AD Designer	spector	ublic elations cordinator	ccounting	drain.	Total Hours	Total Loaded Labor
CONTRACT RATES	\$ 362.50	1 257.93	\$ 233.54	\$ 205.15	\$ 226.93	\$ 217.50	\$ 188.50	1 198 97	5 145 00	\$ 130 50	\$ 104.52	00	5 99.60	£ 159.50	£ 00 U	\$ 115.71	* 70 40		
		Oliver to the second	AL PRINCE	district that	William Children	0.00 (0.00) (0.00)		ange Orde		70-110-00-00-00-00-00-00-00-00-00-00-00-0	101102	- 110.00		100.00	102.20	9 210.71	20.10	-	_
Company of the second s	7					Manag			nd Coordinat	on							1000		
1 Project Coordination and Meetings. UB-TOTAL		80							44				T					124 3	\$ 27,014
UB-TOTAL	-								The second residence		VO. 10	1000				CONTRACTOR OF THE PARTY.	-		
2 17th Street and 1671 West Avenue Junction Box		DE HELD	20.00	-	17th Street B	ulkhead, Dins	ipator, Disch	sarge Piping.	and Junction	Box Structure	es Design		The same of	FICHIE		1000	SD65		
Structures.		. 6				40			40	40	402	40.	40				2	250 4	5 3470
UB-TOTAL		THE RESTO		Mark San	1600 XXXX												-		\$ 34,704
						Part Street	Su	b-Consultant		The same		12 COL 12 COL		S 10 10 10 10 10			_	-	34,7 (44
3 17th Street Engineering Site Visit													T						5 1,800
4 17th Street Prefermacy Dissipator Design 5 17th Street Final Dissipator Design																		1	\$ 8500
5 17th Street Design Coordination Meetings			-		-													1	\$ 13,400
7 17th Street Building Permitting Consulting			-						_										1 150
Analysis and Revision of Maintenance of Traffic (MOT) Plans, due to the Pump Station Relocation																			1 1180
MOT Permit Processing and Meetings								112										1	1 19.60
Additional Survey for Discharge Piping and MOT Temporary Signa keation																		1	15.959
11 Bathymetric Survey																		1	5 5,000
2				W-1881		17th	Street Dissi	pater Environ	mental Permi	itting	D TO COL	10 m	Mark Hill	530.740		ELSE S	10000		
3 Environmental Permit Consultations / Strategy							-		all the same of the same of		-							17	2.60
Corps Permit Application																		1	
ERP Exemption Application																		8	
DERM Class Permit Application								9										9	100
Environmental Permit Processing Environmental Permitting Meetings		_				_												- 3	15.00
B-TOTAL	Se french Grant						_											4	
OTAL HOURS PER TITLE:	THE RESERVE OF THE PERSON NAMED IN	AA	Control of the last of the las	Residence .		an I			2.1	70.1	46.1	100	-					-	112,760
OTAL FEE PER TITLE:		27 607 49		-		40 1 8.700.00	100	200	5 12 (80 00 S	5 200 00	40 5 4 100 G4	1 4540.00	7.944.00	THE RESERVE	The state of	200	156.19	124 5	\$ 174,468

CES Consultants, Inc

5/5/2003

Page 1 or

Moffatt & Nichel Project Fee Proposal

Inclusin Number/1986 Forcett Titler Social Principle 2-An embedding Forcett Manager Chasty 2-English Forcett Principle Trong 2-English	-						Dates	08,68.01		Zub Hagh-up DDC Mag-up		}			
1. RUS-HORE BRIDGET					CTARRETTO	ATTOW/KATE	_								
thans Task Titl-	Principal/Env Linuxustal E-N, S-S SEND. DO	Supervisory Key Jura E-1 \$205,00		Eng III/famirons I-5 3135,60	Eng	Eng./981	Staff Deg. Fel, Fel 595 HT	Sunior Tech. Tel \$745.00	Demigner TH4 #150,00	CASS 11	CRID 1 T-0, 7-1 885.00	Word Pennessur Red, And 845-80	General Clerical R-1, A-2 555.00	MODRICA	LARCH
19 15th Street Biaripator Design	-	-			1	341,000	777	2132110	1220200	177.00	10000	11/5-00	235,00	10000	Hillon
a Engineering Site Visit b Preliminary Discipator Design	2,00			7,00 30,00			17,00			14,00		1.54		75.5	\$1,40 \$0,90
c Final Simmipator Design	12-00	1000		22,50			16,00			53,60		1.62		110.0	\$17,40
# Design Coorditation Heatings # Saliding Permitting Consetting	4.00	2-50										1.04		7,5	11,39
20 Jim Street Dissipator Environmental Persitting	1.90		-	1,65	+		12,00	-	-		-	1.46		21.5	15,09
a Environmental Swimit Communitations/Strategy	10,00			_	-		4,05		+		1	-1.85		1538	12,00
p Corps Permit Application	1,00.1			1.00			12,00					1.46		27.5	11,00
c EAS Exemption Application	7.05			1.000			12,00					1.46		2115	13,000
d DEAN Class I POINT Application	7,00			1.90			12,00				_	1,46		21.5	3.5,000
6 Davistandstal Fernit Properting f Davistandstal Fernitting Montage	12.00	-	-	10.05			60,00		1			8,00		1,08.0	115,00
The state of the s	10.110			2,00			3,10		+ -		_	9,88	_	16.4	\$3,000
															- 1
				47		/								+.0	
														-	0.0
			_			market and								-	- 16
	-	,		- 4					-		_			-	- 31
															31
									1	-				-	- 14
														-	- 1
									V					-	10
CONT. MAN-HOURS	100	2.70	-											-	36
MAN LABOR	£03,4+0,00	2517155		510,040,00	20,00	0,60 40,00	150.55	0.00	0.00	31.00	8,60	21,255,00	0.65	431.1	\$18,400
II. DTHEN COGTS	EL ANTONIA STORY	231111-111	49,010	91/14/1907080				50.00	10,00	28,043.00	30,001	21,255,00	10,00		356, 100
Total correct Total screensuitate	#E #	### APP ### AP	10		IT. HOLD		Total MaN Labs Total Subsection Total Other Did Hadingo Total Other Did Hadingo Total Other Total Project	ltous cost: rect Costs: carbon:					358,400 40 40 20 30 358,400		



Miami - Ft. Lauderdale - Orlando 305-591-4323 954-344-6568 407-339-0040

www.civilworks.com

cwi@civilworks.com

Pump Station Relocation, page 1 Feb. 8, 2021, Rev 3/15/21, Rev 3/30/21, Rev 5/03/2021

CES Consultants, Inc.

14361 Commerce Way, Suite 103

Miami Lakes, FL 33016

Attn: Jose Caraballo, P.E.

Email to: jcaraballo@cesconsult.com

Email to: Erik Alcantara <ealcantara@cesconsult.com>

Re:

Change Order for Pump Station relocation and West Avenue (North) Water Quality Wells

RFP No. 2016-090-KB, CWI No. 17102.00

Dear Jose:

Civil Works, Inc. (CWI) is pleased to submit this change order to your firm CES (the Client, and RIC-MAN FL, RCFL) for Selective Civil Engineering Design Services for the above project. The selective engineering design services will include improvements for the Maintenance of Traffic that will be modified to include the new work in West Ave between Lincoln Road and 17 St and at the 17 St and West Ave intersection. The water quality wells along the side streets between West Ave and Alton Road will modify the MOT segments. These include 7 locations on the side streets on 14 Ct/ Bay Road, 15 Terr/ Bay Road, 15 Terr/ West Ave, 16 St/ Bay Road, 16 St/ West Ave, Lincoln Road/ Bay Road, Lincoln Road/Bay Road.

This change order is based on the plans received 1/29/2021, Drainage Wells and Revised Pump Station plans. As background, the previous submitted plans showed the Storm water pump station in Lincoln Road west of Lincoln Court. This revision is to move the pump station off of West Ave into a City owned parking lot and add storm water quality wells to 7 locations. The Signing and Marking Plans and lighting will require revisions to remove the pump station from Lincoln Road and revise the base plans for Lighting and signing and marking. Therefore, CWI will revise the affected civil engineer sheets.

Task 1 - Lincoln Rd Stormwater Pump Station and addition of Water Quality Wells.

Under this Task, CWI will revise the following items based on the revised roadway base files of Lincoln Rd, West Ave, Bay Rd and Alton Rd.

Sheet No	Description
M-1	The MOT phases will be renumbered based on the coordination with The Team Members due to the new location of the pump station at 1671 West Ave between Lincoln Road and 17 St. The pump station was Phase 1 in the previous schedule.
M-3	Revise the MOT signage based on the revised roadway base plan and moving the pump station to the 1671 West Ave parking lot.
M-4	Revise the MOT based on the additional phase at 17 St and West Avenue
M-6	Add an additional phase 10 in the MOT to include the West Ave from Lincoln Road to south of 17 St pump station and discharge pipes.

	West Ave North -091	161	5/11/2021	-		
	Commodity and St	Commodity and Subcontractor Escalation				
Item	New Total	CO 38 total	Delta	Delta	Total Impact	
			Material	Subcontract	7700	Notes
Quoted Escalator						
Flygt Pumps w/tax	\$ 2,202,075,00	5 2 899 219 00				
DI Pipe	\$ 704,608.00	\$ 526.924.00	5 697,144.00			See attached quotes
Tax 7%						US Pipe
3.6% Escalator						
						See Producer Price index Graph
Trench drains	\$ 81,681.00	5 78.843.00	2 239 00			
Aggregates	S	u				
Landscaping/Irrigation						
Pipe Commodities	\$ 935,877.00					
PVC Pipe, Fittings			\$ 2,829.00			
Taxes - 7% on \$120,897			\$ 8.463.00			
Subcontractor Adjustments						
Asphalt						
Electrical- So FI Elect				26,016.00	0	See Quate Comparison and Proportioning to 090
Electrical- Benson -WT5					0	See unit Pricing spread sheet from So FI Elect
				\$ 40,824.00	0	See quote comparison
Total			\$ 977 647 00	v		
OH- 10/5				n 4		
Subtotal			*	S	0	
1.44% Bond & Ins			\$ 1,079,310,00	36		
			0.245,00		0	

Fersion DAACE Direct Labor			
ESCRIBION MAICE DIRECT INDOC	5/11/2021	7	
	06	91	
Item	Hours Cost	Hours Cost	Comments
Base Contract	23,762 \$ 1,019,810.00	50,573 \$ 2,157,261.00	
CO3B			
#11/23- labor escalation	\$ 66.028.00	\$ 114 825 00	
#5/17- 10 year Storm water	3		
#16- Alton Ct	s		
#15- Rear to Front		939 \$ 45,862,00	
#6/18	\$ 0		
# 1/14- Gen sets			
#14- Lincoln Rd PS		1	
#2 -Alton CT	95 \$ 6,141.00		
#4 -6th St Side walk	s		
#3- Alton CT re-surfacing	(1)		
Sub Totals	36.117 \$ 1.720.909.00	000000000000000000000000000000000000000	
30 Months at 3% per year (0.25% per month)= 7.5%) -091		· vs	2005 vacuael -000 anul
27 Months at 3% per year (0.25% per Month=6.75%- 090	\$ 116,161.00		March 9,2021 - July 4,2023
New CO Escalation			
24 Months at 3% per year= 6%- 091		53,725 \$ 2.736,752.00	lan 2023- Ian 2025
And the subsection of the subs			
o months at 5% pet year (0.25% per month = 1.5%)- 090			Jan 2023- July 2023
Total Escalation		410 040 00	
1.44% N/1.55%S		\$ 5,916.00	
Grand Total		4	



West Avenue North - 091

Drainage Pipe & Structures 5/10/2021

Drainage Pipe & Structures		5/10/2021										
Item	Qty	Unit	Subcontractor	Material	MH	Labor Rate	Total	Equipment	NewTotal	Original Total	Delta	Notes
Drainage Pipe					14111	Nate	Total					
Lincoln Court												
24" RCP	301	LF		\$ 17,654.00	200.66	\$ 47.06		\$ 8,341.00	\$ 35,438.00		\$ 35,438.00	All material reflects current pricing
30" RCP Haul out of Muck	8	LF CY		\$ 1,644.00 \$ 225.00	6.4 2.42	\$ 47.03 \$ 49.17	\$ 301.00 \$ 119.00	\$ 266.00 \$ 162.00	\$ 2,211.00 \$ 506.00		\$ 2,211.00 \$ 506.00	All material reflects current pricing All material reflects current pricing
Dewatering	8	LF		\$ 112.00	1.34	\$ 48.51	\$ 65.00	\$ 31.00	\$ 208.00		\$ 208.00	All material reflects current pricing
14th Terrace 24" RCP	372	LF		\$ 21,820.00	248	\$ 47.06	\$ 11,671.00	\$ 10.310.00	\$ 43,801.00		\$ 43,801.00	All material reflects current pricing
24 RCr	312	LI		\$ 21,820.00	240	3 47.00	\$ 11,071.00	\$ 10,510.00	3 43,001.00		\$ 45,801.00	All material reflects current pricing
14th Court												
24" RCP	377	LF		\$ 22,113.00	251.34	\$ 47.06	\$ 11,829.00	\$ 10,450.00	\$ 44,392.00		\$ 44,392.00	All material reflects current pricing
Flamingo Way	106	1.5		6 11 400 00	120.66	6 47.00	6 (140.00	6 5 421 00	e 22.070.00		£ 22.070.00	411 4 1 1 0 4
24" RCP	196	LF		\$ 11,499.00	130.66	\$ 47.06	\$ 6,149.00	\$ 5,431.00	\$ 23,079.00		\$ 23,079.00	All material reflects current pricing
15th Street												
24" RCP	505	LF		\$ 29,623.00	336.66	\$ 47.06	\$ 15,844.00	\$ 13,995.00	\$ 59,462.00		\$ 59,462.00	All material reflects current pricing
15th Terrace												
24" RCP 36" RCP	888 357	LF LF		\$ 52,089.00 \$ 66,315.00	592 285.6		\$ 27,861.00 \$ 13,441.00		\$ 104,561.00 \$ 91,629.00		\$ 104,561.00 \$ 91,629.00	All material reflects current pricing All material reflects current pricing
								,,,,,,,,,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			1 5
24" RCP	461	LF		\$ 27,026.00	307.34	\$ 47.06	\$ 14,464.00	\$ 12,778.00	\$ 54,268.00		\$ 54,268.00	All material reflects current pricing
Lincoln Terrace												
24" RCP	133	LF		\$ 7,803.00	88.66	\$ 47.07	\$ 4,173.00	\$ 3,685.00	\$ 15,661.00		\$ 15,661.00	All material reflects current pricing
· · · - ·												
Lincoln Road 24" RCP	510	LF		\$ 29,915.00	340	\$ 47.06	\$ 16,001.00	\$ 14,135.00	\$ 60,051.00		\$ 60,051.00	All material reflects current pricing
36" RCP	149	LF		\$ 27,678.00	119.2	\$ 47.06	\$ 5,610.00	\$ 4,955.00	\$ 38,243.00		\$ 38,243.00	All material reflects current pricing
48" RCP 72" RCP	188 370	LF LF		\$ 40,643.00 \$ 163,219.00	136.72 493.34	\$ 47.06 \$ 47.06	\$ 6,434.00 \$ 23,218.00	\$ 5,684.00 \$ 20,510.00	\$ 52,761.00 \$ 206,947.00		\$ 52,761.00 \$ 206,947.00	All material reflects current pricing All material reflects current pricing
Bay Road (Lincoln Rd to 14th St.)						<u> </u>						
24" RCP 48" RCP	818 906	LF LF		\$ 47,979.00 \$ 186,948.00	545.34 1132.5	\$ 47.06 \$ 47.06		\$ 22,672.00 \$ 47,080.00	\$ 96,316.00 \$ 287,326.00		\$ 96,316.00 \$ 287,326.00	All material reflects current pricing All material reflects current pricing
60" RCP	495	LF		\$ 160,748.00	660	\$ 47.06	\$ 31,061.00	\$ 27,438.00	\$ 219,247.00		\$ 219,247.00	All material reflects current pricing
72" RCP	288	LF		\$ 126,543.00	382.66	\$ 47.06	\$ 18,009.00	\$ 15,907.00	\$ 160,459.00		\$ 160,459.00	All material reflects current pricing
West Avenue (North of Lincoln Rd.) 24" RCP	50	LF		\$ 2,933.00	33.34	\$ 47.06	\$ 1,569.00	\$ 1,387.00	\$ 5,889.00		\$ 5,889.00	All material reflects current pricing
48" RCP 96" RCP	313 435	LF LF		\$ 78,778.00 \$ 256,355.00	227.63 1271.25	\$ 47.06 \$ 50.41		\$ 9,462.00 \$ 76,895.00	\$ 98,953.00 \$ 397,334.00		\$ 98,953.00 \$ 397,334.00	All material reflects current pricing All material reflects current pricing
Haul out of Muck	359	CY		\$ 4,840.00	162.6	\$ 49.35	\$ 8,025.00	\$ 10,874.00	\$ 23,739.00		\$ 23,739.00	All material reflects current pricing
Dewatering	435	LF		\$ 33,373.00	33.9	\$ 48.29	\$ 1,637.00	\$ 783.00	\$ 35,793.00		\$ 35,793.00	All material reflects current pricing
W												
West Avenue (Lincoln Rd. to 14th St.) 24" RCP	224	LF		\$ 13,139.00	149.34	\$ 47.06	\$ 7,028.00	\$ 6,209.00	\$ 26,376.00		\$ 26,376.00	All material reflects current pricing
60" RCP 72" RCP	93 1826	LF LF		\$ 30,207.00 \$ 812,081.00	124		\$ 5,836.00 \$ 114,580.00		\$ 41,198.00 \$ 1,027,875.00		\$ 41,198.00 \$ 1,027,875.00	All material reflects current pricing All material reflects current pricing
	1620	LF		\$ 612,061.00	2434.00	\$ 47.00	\$ 114,580.00	\$ 101,214.00	\$ 1,027,675.00		\$ 1,027,873.00	All material reflects current pricing
Pipe Credit 24" RCP	865	LF							\$ (118,780.53)		\$ (118,780.53)	Pipe Under Contract (Base Bid & CO 3-B)
36" RCP	28	LF							\$ (3,277.90)		\$ (3,277.90)	Pipe Under Contract (Base Bid & CO 3-B)
48" RCP 60" RCP	3492 584	LF LF							\$ (636,760.00) \$ (164,078.37)		\$ (636,760.00) \$ (164,078.37)	Pipe Under Contract (Base Bid & CO 3-B) Pipe Under Contract (Base Bid & CO 3-B)
72" RCP 78" RCP	370 260	LF LF							\$ (172,606.25) \$ (227,282.53)		\$ (172,606.25) \$ (227,282.53)	Pipe Under Contract (Base Bid & CO 3-B) Pipe Under Contract (Base Bid & CO 3-B)
/o KCr	200	LI							\$ (221,202.33)		\$ (227,282.33)	ripe Olidei Colitiact (Base Bid & CO 3-B)
Drainage Structures												
Dramage Structures												
Structures 4'x2.5' - 4'x4' - 4'x5' Structures Type 1, 2, 4, 5, 6J, J7, F and V	87	EA		\$ 218,610.00	3480	\$ 47.06	\$ 163,776.00	\$ 144 672 00	\$ 527,058.00		\$ 527.058.00	All material reflects current pricing
Structures Type 1, 2, 4, 3, 63, 37, 1 and v	87	LA		3 210,010.00	3400	3 47.00	3 103,770.00	\$ 144,072.00	\$ 527,038.00		\$ 327,036.00	All material reflects current pricing
Round 3.5' & 4'												
Structures Type 4, 6 and 10	7	EA		\$ 23,982.00	280	\$ 47.06	\$ 13,177.00	\$ 11,640.00	\$ 48,799.00		\$ 48,799.00	All material reflects current pricing
				1		 						
Structures 4'x8' - 8'x6' - 8'x5' - 8'x8'	26	E.A		e 145 520 00	2240	¢ 40 77	£ 114.000.00	¢ 110 222 00	¢ 260.060.00		¢ 260.060.00	All motorial rofle-t-
Structures Type 5, 6J and J7	26	EA		\$ 145,539.00	2340	\$ 48.76	\$ 114,098.00	\$ 110,232.00	\$ 369,869.00		\$ 369,869.00	All material reflects current pricing
Round 6', 7', 8' & 10'												
Structures Type 5, 6J and J7	6	EA		\$ 37,138.00	320	\$ 47.06	\$ 15,060.00	\$ 13,303.00	\$ 65,501.00		\$ 65,501.00	All material reflects current pricing
	<u> </u>	<u> </u>		<u> </u>		<u> </u>						
Structures 6'x4' - 6'x6' - 6'x7'					2 2				0			
Structures Type 6J, J7 & G	21	EA		\$ 78,740.00	1680	\$ 47.06	\$ 79,065.00	\$ 69,842.00	\$ 227,647.00		\$ 227,647.00	All material reflects current pricing
Ct												
Structures 7'x4' Structures Type 6J, J7 & F	8	EA	<u> </u>	\$ 34,638.00	720	\$ 48.76	\$ 35,107.00	\$ 33,918.00	\$ 103,663.00		\$ 103,663.00	All material reflects current pricing
Structures 12'x8' - 12'x12'					_							
Structures Type J7	4	EA		\$ 67,735.00	360	\$ 48.76	\$ 17,554.00	\$ 16,959.00	\$ 102,248.00		\$ 102,248.00	All material reflects current pricing
Stuctures Credit									6 /226 22		6 (220.22	P. H.I. C
P-9 Catch Basin Catch Basin	25 2	EA EA				L			\$ (230,236.19) \$ (19,690.05)		\$ (230,236.19) \$ (19,690.05)	Pipe Under Contract (Base Bid & CO 3-B) Pipe Under Contract (Base Bid & CO 3-B)
J-7 Catch Basin	11	EA							\$ (132,329.64)		\$ (132,329.64)	Pipe Under Contract (Base Bid & CO 3-B)
J-9 Catch Basin J-7 Catch Basin	13 4	EA EA				 			\$ (155,722.33) \$ (53,949.23)		\$ (155,722.33) \$ (53,949.23)	Pipe Under Contract (Base Bid & CO 3-B) Pipe Under Contract (Base Bid & CO 3-B)
J-9 Catch Basin	7	EA EA							\$ (38,490.97)		\$ (38,490.97)	Pipe Under Contract (Base Bid & CO 3-B)
Type P Inilet MH Round	15	EA							\$ (52,257.00) \$ (109,963.47)		\$ (52,257.00) \$ (109,963.47)	Pipe Under Contract (Base Bid & CO 3-B) Pipe Under Contract (Base Bid & CO 3-B)
Manhole	2	EA					<u> </u>		\$ (36,878.53)		\$ (36,878.53)	Pipe Under Contract (Base Bid & CO 3-B)
				4			4 0	4.0	4.0		4.0	
	<u> </u>	<u> </u>]	\$ 1,431,014.00	8138.9	<u> </u>	\$ 387,712.00	\$ 365,924.00	\$ 2,184,650.00 5% Subco	ontractor Markup	\$ 2,546,205.01	
										10% Markup	\$ 218,465.00	
									1.44%	Bond & Insurance TOTAL	\$ 36,665.35 \$ 2,801,335.36	
									·		,	•



			·	•				
Biditem Activity	Description	Quantity Unit	Calendar WC Hrs/Shift	Labor	Perm Material	Constr Matl/Exp	Equip- Ment	Sub- Contract Total
*** 100		Lincoln Court		Takeoff:	1.00	LS	Bid:	1.00 LS
100.01	24" RCP Installation	301.00 LF	F6319A 50 10.00	9,443	15,879	1,775	8,341	35,438
Mh:	200.66 Shifts: 2.5	Mh/Un: 0.6666	Un/Sh: 120.0159	31.37	52.75	5.90	27.71	117.73
380.10	30" RCP Installation	8.00 LF	F6319A 50 10.00	301	1,595	49	266	2,212
Mh:	6.40 Shifts: 0.1	Mh/Un: 0.8000	Un/Sh: 100.0000	37.65	199.39	6.15	33.26	276.45
380.11	Haul Out Muck	4.00 CY	F6319A 50 10.00	119		225	162	506
Mh:	2.42 Shifts:	Mh/Un: 0.6050	Un/Sh:	29.86		56.25	40.46	126.57
380.12	Dewatering	8.00 LF	F6319A 50 10.00	65	112		31	208
Mh:	1.34 Shifts: 0.0	Mh/Un: 0.1675	Un/Sh: 307.6923	8.11	14.04		3.90	26.05
*****	****Biditem/Category 10	00 *******		9,929	17,586	2,049	8,800	38,364
Mh:		210.8200		9,928.99	17,586.01	2,049.00	8,800.15	38,364.15
*** 110	1	14th Terrace		Takeoff:	1.00	LS	Bid:	1.00 LS
110.01	24" RCP Installation	372.00 LF	F6319A 50 10.00		19,624	2,196	10,310	43,802
Mh:	248.00 Shifts: 3.1	Mh/Un: 0.6667	Un/Sh: 120.0000	31.37	52.75	5.90	27.71	117.75
*****	****Biditem/Category 11	0 *******		11,671	19,624	2,196	10,310	43,802
Mh:		248.0000		,	19,624.47	2,196.00	10,309.95	43,801.85
*** 120	1	14th Court		Takeoff:	1.00	I C	Bid:	1.00 LS
120.01	24" RCP Installation	377.00 LF	F6319A 50 10.00		19,888	2,225	10,450	1.00 LS 44,391
Mh:	24 RCP installation 251.34 Shifts: 3.1		Un/Sh: 120.0255	31.38	52.75	5.90	27.72	117.75
***	4444D' I' /C /	0 ******		11.920	10.000	2 225	10.450	44 201
Mh:	****Biditem/Category 251.34 Mh/Un: 2	251.3400		11,829 11,828.65	19,888 19,887.99	2,225 2,224.80	10,450 10,449.63	44,391 44,391.07
*** 130	I	Flamingo Way		Takeoff:	1.00	LS	Bid:	1.00 LS
130.01	24" RCP Installation	196.00 LF	F6319A 50 10.00	6,149	10,340	1,159	5,431	23,080
Mh:	130.66 Shifts: 1.6	Mh/Un: 0.6666	Un/Sh: 120.0245	31.37	52.76	5.91	27.71	117.75
*****	****Biditem/Category 13	30 *******		6,149	10,340	1,159	5,431	23,080
Mh:		130.6600		· · · · · · · · · · · · · · · · · · ·	10,340.29	1,159.20	5,431.02	23,079.63
*** 140	1	15th Street		Takeoff:	1.00	IS	Bid:	1.00 LS
140.01	24" RCP Installation	505.00 LF	F6319A 50 10.00		26,641	2,982	13,995	59,461
Mh:	336.66 Shifts: 4.2		Un/Sh: 120.0095	31.37	52.75	5.90	27.71	117.75
****	****Biditem/Category 14	0 ******		15 044	26 641	2.002	12 005	50.461
Mh:		336.6600		15,844 15,843.93	26,641 26,640.51	2,982 2,982.00	13,995 13,994.94	59,461 59,461.38
*** 150		15th Terrace		Takeoff:	1.00	LS	Bid:	1.00 LS
150.01	24" RCP Installation	888.00 LF	F6319A 50 10.00	27,861	46,845	5,244	24,611	104,561
Mh:	592.00 Shifts: 7.4	Mh/Un: 0.6667	Un/Sh: 120.0000	31.37	52.75	5.91	27.71	117.75
*****	****Biditem/Category 15	50 *******		27,861	46,845	5,244	24,611	104,561
Mh:		592.0000			46,845.49	5,244.00	24,610.85	104,561.16
*** 160		16th Street	E(210) 20	Takeoff:	1.00		Bid:	1.00 LS
160.01	24" RCP Installation	461.00 LF	F6319A 50 10.00		24,322	2,704	12,778	54,267
Mh:	307.34 Shifts: 3.8		Un/Sh: 120.0208	31.38	52.76	5.86	27.72	117.72
380.10 Mh:	36" RCP Installation 285.60 Shifts: 3.6	357.00 LF Mh/Un: 0.8000	F6319A 50 10.00 Un/Sh: 100.0000	13,441 37.65	64,142 179.67	2,173 6.09	11,873 33.26	91,629 256.66
				<u> </u>			<u>.</u>	
	****Biditem/Category 16			27,905	88,464	4,877	24,651	145,896
Mh:	592.94 Mh/Un:	592.9400		27,905.07	88,463.58	4,876.80	24,650.76	145,896.21
*** 170	I	Lincoln Terrace		Takeoff:	1.00	LS	Bid:	1.00 LS
170.01	24" RCP Installation	133.00 LF	F6319A 50 10.00	4,173	7,016	787	3,685	15,661
Mh:	88.66 Shifts: 1.1	Mh/Un: 0.6666	Un/Sh: 120.0361	31.37	52.76	5.92	27.71	117.75
***** Mh:	****Biditem/Category 17 88.66 Mh/Un:	7 0 ******** 88.6600		4,173 4,172.50	7,016 7,016.49	787 787.20	3,685 3,684.98	15,661 15,661.17
1,222				.,1,2.00	.,		2,500	10,001.17



					Activity	Unit Frice S	ummar y				
Biditem Activity	Description		Quantity	Unit	Calen WC	dar Hrs/Shift	Labor	Perm Material	Constr Matl/Exp	Equip- Ment	Sub- Contract To
*** 380	38]	Lincoln Road				Takeoff:	1.00	LS	Bid:	1.00 LS
380.01	24" RCP Inst	tallation	510.00	LF	F6319A	50 10.00	16,001	26,904	3,011	14,135	60,0
Mh:	340.00 Sh	nifts: 4.3	Mh/Un:	0.6667	Un/Sh:	120.0000	31.37	52.75	5.90	27.71	117.
380.10	36" RCP Inst	tallation	149.00	LF	F6319A	50 10.00	5,610	26,771	907	4,955	38,2
Mh:	119.20 Sh	nifts: 1.5	Mh/Un:	0.8000	Un/Sh:	100.0000	37.65	179.67	6.09	33.26	256.
380.20	48" RCP Inst	tallation	188.00		F6319A		6,434	39,797	846	5,684	52,7
Mh:		nifts: 1.7	Mh/Un:			110.0059	34.23	211.68	4.50	30.23	280.
380.30	72" RCP		370.00		F6319A		23,218	161,474	1,745	20,510	206,9
Mh:	493.34 Sh	nifts: 6.2	Mh/Un:	1.3334	Un/Sh:	60.0065	62.75	436.42	4.72	55.43	559.
	*****Biditem/Cat	0 .	0	*****			51,263	254,946	6,509	45,284	358,0
Mh:	1,089.26 N	/Ih/Un: 1,0	089.2600				51,262.99	254,945./1	6,509.10	45,283.98	358,001.
*** 390	39	1	Bay Rd. (Linc	oln Rd. to	14th St.)		Takeoff:	1.00	LS	Bid:	1.00 LS
395.01	60" RCP Inst	tallation	495.00		F6319A		31,061	158,569	2,179	27,438	219,2
Mh:		nifts: 8.3	Mh/Un:	1.3333	Un/Sh:		62.75	320.34	4.40	55.43	442.
395.10	72" RCP Inst		287.00		F6319A		18,009	125,251	1,292	15,907	160,4
Mh:		nifts: 4.8	Mh/Un:		Un/Sh:		62.75	436.42	4.50	55.43	559.
395.20	24" RCP Inst		818.00		F6319A		25,665	43,153	4,826	22,672	96,3
Mh:		nifts: 6.8	Mh/Un:		Un/Sh:		31.38	52.75	5.90	27.72	117.
395.40	48" RCP		906.00		F6319A		53,298	182,838	4,110	47,080	287,3
Mh:	1,132.50 Sh	nifts: 14.2	Mh/Un:	1.2500	Un/Sh:	64.0011	58.83	201.81	4.54	51.96	317.
****	****Biditem/Cat	tegory 39	00 ****	****			128,033	509,812	12,407	113,097	763,3
			720.5000				128,032.62	509,811.74	12,407.10	113,096.83	763,348.
*** 395		•	West Ave. (No	orth of Lin	coln Rd.)		Takeoff:	1.00	LS	Bid:	1.00 LS
390.01	24" RCP Inst		50.00		F6319A		1,569	2,638	295	1,387	5,8
Mh:	33.34 Sh	nifts: 0.4	Mh/Un:	0.6668	Un/Sh:	120.1923	31.38	52.75	5.90	27.74	117.
390.05	48" RCP Inst	tallation	313.00	LF	F6319A	50 10.00	10,713	77,369	1,409	9,462	98,9
Mh:	227.63 Sh	nifts: 2.8	Mh/Un:	0.7273	Un/Sh:	110.0176	34.23	247.19	4.50	30.23	316.
390.10	96" RCP Inst	tallation	339.00	LF	F6319A	50 10.00	64,084	252,939	3,416	76,895	397,3
Mh:	1,271.25 Sh	nifts: 14.1	Mh/Un:	3.7500	Un/Sh:		189.04	746.13	10.08	226.83	1,172.
390.11	Haul Out Mu		271.00		F6319A	50 10.00	8,025		4,840	10,874	23,7
Mh:	162.60 Sh	nifts:	Mh/Un:		Un/Sh:		29.61		17.86	40.12	87.
390.12	Dewatering		339.00		F6319A		1,637	33,373		783	35,7
Mh:	33.90 Sh	nifts: 0.7	Mh/Un:	0.1000	Un/Sh:	500.0000	4.83	98.45		2.31	105.
****	****Biditem/Cat	tegory 39)5 *****	*****			86,028	366,320	9,960	99,400	561,7
Mh:	1,728.72 M	/Ih/Un: 1,	728.7200				86,027.91	366,319.73	9,960.10	99,399.80	561,707.
*** 400			West Ave. (Li			*	Takeoff:	1.00		Bid:	1.00 LS
390.01	24" RCP Inst		224.00			50 10.00	7,028	11,817	1,322	6,209	26,3
Mh:		nifts: 1.9	Mh/Un:			120.0429	31.38	52.75	5.90	27.72	117.
390.11	60" RCP Inst		93.00			50 10.00	5,836	29,792	415	5,155	41,1
Mh:		nifts: 1.6	Mh/Un:		Un/Sh:		62.75	320.34	4.46	55.43	442.
400.12 Mh:	72" RCP Inst 2,434.66 Sh	nifts: 30.4	1,826.00 Mh/Un:		F6319A Un/Sh:		114,580 62.75	796,896 436.42	15,185 8.32	101,214 55.43	1,027,8 562.
							107.444	020 504	16000	110.550	1.005.4
	*****Biditem/Cat 2,708.00 M	0 .	0 0 ***** 708.0000	*****			127,444 127,444.44	838,504 838,504,17	16,922 16,922.10	112,578 112,578.00	1,095,4 1,095,448.
	2,700.00	m/On. 2,	700.0000				127,777.77	030,20117	10,722.10	112,576.00	1,073,446.
*** 501			Additional Str		E(2104		Takeoff:	1.00		Bid:	1.00 LS
501.01		x2.5', 4'x4' &			F6319A		163,776	,	15,660	144,672	527,0
Mh:	· ·	nifts: 43.5	Mh/Un:		Un/Sh:		1,882.49		180.00	1,662.90	6,058.
501.02	Round 3.5 &			10 0000	F6319A		13,177		1,260	11,640	48,8
Mh:		nifts: 3.5	Mh/Un: 5' & 26.00		Un/Sh:		1,882.49		180.00	1,662.90	6,971.
501.03 Mh:	Structures 4'x 2,340.00 Sh	x8,8x6,8x3 nifts: 26.0	Mh/Un:		F6319A Un/Sh:		114,098 4,388.38	140,859 5,417.67	4,680 180.00	110,232 4,239.71	369,8 14,225.
501.04	Round 6', 7'			90.0000 EA	F6319A		15,060	36,058	1,080	13,303	14,225.
Mh:		ifts: 4.0	Mh/Un:		Un/Sh:	1.5000	2,509.98	6,009.59	180.00	2,217.19	10,916.
501.05	Structures 6'				F6319A		79,065	74,960	3,780	69,842	227,6
Mh:		nifts: 21.0	Mh/Un:		Un/Sh:		3,764.98	,	180.00	3,325.79	10,840.
501.06	Structures 7'2) EA	F6319A		35,107	33,198	1,440	33,918	103,6
2 2 2 . 0 0						20.00	25,157	23,270		20,510	

05012021 West Ave. 091 N - Drainage Complete 60%



Biditem Activity	Description			Quantity	Unit	Calend WC	lar Hrs/Shift	Labor	Perm Material	Constr Matl/Exp	Equip- Ment	Sub- Contract Total
Mh:	720.00	Shifts:	8.0	Mh/Un:	90.0000	Un/Sh:	1.0000	4,388.38	4,149.80	180.00	4,239.71	12,957.89
501.07	Structure	s 12'x8 and	112'x12	" 4.00) EA	F6319A	50 10.00	17,554	67,015	720	16,959	102,247
Mh:	360.00	Shifts:	4.0	Mh/Un:	90.0000	Un/Sh:	1.0000	4,388.38	16,753.73	180.00	4,239.71	25,561.81
****	****Biditem/	Category	501	****	*****			437,837	577,762	28,620	400,566	1,444,784
Mh:	9,180.00	Mh/Un:	9,18	80.0000				437,836.68	577,761.55	28,620.00	400,565.87	1,444,784.10
Mh:	19,877.56	***REP	ORT T	OTALS***				945,965	2,783,748	95,937	872,857	4,698,507

N = Activity not adjusted to bid quantity



West Avenue North - 091

Pump Station - Rev 1 5/10/2021

Item	Qty	Unit	Subcontractor	Material		Labor		Equipment	NewTotal	Original Total	Delta	Notes
					MH	Rate	Total					
Pump Station												
Engineering												
Redesign of Pump Station	1	LS	\$ 152,500.00	\$ -			\$ -	\$ -	\$ 152,500.00		\$ 152,500.00	
Lincoln Road Bulkhead Redesign	1	LS	\$ 44,217.04						\$ 44,217.04		\$ 44,217.04	
17th St. Bulkhead	1	LS	\$ 174,468.32						\$ 174,468.32		\$ 174,468.32	
Sidewalk/Tree Removal/Landscaping/Fencing			s -	\$ -			\$ -	S -	s -		S -	
Fence 7' high	420	LF	\$ 8,400.00	\$ -			\$ -	s -	\$ 8,400.00		\$ 8,400.00	
Double Gate	1	EA	\$ 10,000.00	\$ -			s -	s -	\$ 10,000.00		\$ 10,000.00	
Landscaping 17th St. & Parking Area	1	LS	\$ 35,000.00	\$ -			\$ -	\$ -	\$ 35,000.00		\$ 35,000.00	
Irrigation	1	LS	\$ 5,000.00	\$ -			\$ -	\$ -	\$ 5,000.00		\$ 5,000.00	
Sidewalk - 6' wide	3000	SF	\$ 30,000.00	\$ -			\$ -	\$ -	\$ 30,000.00		\$ 30,000.00	
Tree Removal	1	LS	\$ 5,000.00	\$ -			\$ -	\$ -	\$ 5,000.00		\$ 5,000.00	
Utility Relocation Utility Relocation	1	LS	S -	\$ 1,200.00	300	\$ 48.68	\$ 14,604.00	\$ 13,886.00	\$ 29,690.00		\$ 29,690.00	
Utility Removal	1	LS	3 -	3 1,200.00	300	3 40.00	3 14,004.00	\$ 13,000.00	3 29,090.00		3 29,090.00	
Utility Removal	1	LS	S -	\$ 960.00	240	\$ 48.68	\$ 11,683.00	\$ 11,109.00	\$ 23,752.00		\$ 23,752.00	
Paving Parking Lot				•				, , , , , ,				
Paving Parking Lot	1611	SY	\$ 24,926.00	\$ -			\$ -	\$ -	\$ 24,926.00		\$ 24,926.00	
Existing Aspahlt Removal & Stone Base Installation	1000	SY	\$ -	\$ 5,675.00	180	\$ 48.68	\$ 8,762.00	\$ 8,331.00	\$ 22,768.00		\$ 22,768.00	
MOT 17th St. & West Ave.												
MOT 17th St. & West Ave.	1	LS	\$ 7,500.00	\$ 10,300.00	880	\$ 38.79	\$ 34,139.00	\$ 13,200.00	\$ 65,139.00	1	\$ 65,139.00	
Platform Screening & Support	2400	CE.	e	£ 277 479 00	1200	6 40.00	£ 50 416 00	\$ 17,051.00	0 252 045 00		6 252 045 00	
Platform Screening & Support Curb & Gutter	3400 420	SF LF	\$ - \$ 14,700.00	\$ 277,478.00 \$	1200	\$ 48.68	\$ 58,416.00	\$ 17,051.00	\$ 352,945.00 \$ 14,700.00	 	\$ 352,945.00 \$ 14,700.00	
FPL Vault	420	LF	g 14,/00.00	9 -	 		φ -	g -	a 14,700.00	1	9 14,/00.00	
FPL Vault	1	LS	\$ -	\$ 171,600.00			\$ -	S -	\$ 171,600.00	1	\$ 171,600.00	
Transition Box			-	,				-			,	
Cofferdam 60' x 30'	5400	SF	\$ 170,000.00	\$ 13,375.00	1760	\$ 48.28	\$ 84,968.00	\$112,915.00	\$ 381,258.00		\$ 381,258.00	
Escavate/Backfill extra at deep section	800	CY	\$ -	\$ 3,852.00	300	\$ 48.68	\$ 14,604.00	\$ 13,886.00	\$ 32,342.00		\$ 32,342.00	
Backfill Perimeter	320	TON	\$ -	\$ 13,136.00	180	\$ 48.68	\$ 8,762.00	\$ 8,331.00	\$ 30,229.00		\$ 30,229.00	
Dewatering	1	LS	S -	\$ 16,374.00	200	\$ 50.66	\$ 10,131.00	\$ 4,617.00	\$ 31,122.00		\$ 31,122.00	
Dissipator Receiver Box	4200	an	# 100 000 TT	â 12.255 ···	640	0.40.00	A 20 005	A 25 055 5		ļ	d 100 125	
Dissipator Receiver Box	4200	SF	\$ 100,000.00	\$ 13,375.00	640	\$ 48.28 \$ 48.68	\$ 30,897.00	\$ 35,857.00	\$ 180,129.00	1	\$ 180,129.00	
Tremie Seal Backfill - Stone Base	200 800	CY CY	\$ - \$ -	\$ 2,782.00 \$ 2,889.00	144 300	\$ 48.68	\$ 7,010.00 \$ 14,604.00	\$ 7,200.00 \$ 13,886.00	\$ 16,992.00 \$ 31,379.00	-	\$ 16,992.00 \$ 31,379.00	
Backfill Perimeter	400	TON	\$ -	\$ 11,670.00	180	\$ 48.68	\$ 8,762.00	\$ 8,331.00	\$ 28,763.00	1	\$ 28,763.00	
Dewatering Dewatering	1	LS	\$ -	\$ 16,374.00	126.61	\$ 50.66		\$ 2,922.00	\$ 25,710.00		\$ 25,710.00	
17th Sea Wall & Lincoln Rd.		-		.,	,,,,,		.,	,==			3,,	
Credits	1	LS	\$ -	\$ (19,000.00)	0		\$ -	\$ -	\$ (19,000.00)		\$ (19,000.00)	Tie-Back System
Sea Wall Removal (17th St.)	80	LF	\$ 3,500.00	\$ 11,000.00	240	\$ 48.68	\$ 11,683.00		\$ 34,514.00		\$ 34,514.00	
Pile Cap Replacement	12	CY	\$ 15,600.00	\$ 43,228.00	640	\$ 48.08	\$ 30,769.00	\$ 21,761.00	\$ 111,358.00		\$ 111,358.00	
Tremie Seal	20	CY	\$ -	\$ 2,782.00	144	\$ 48.68	\$ 7,010.00	\$ 6,665.00	\$ 16,457.00		\$ 16,457.00	
Dewatering 84" Hober Pine	1	LS	\$ -	\$ 6,634.00	50	\$ 50.66	\$ 2,533.00	\$ 1,154.00	\$ 10,321.00	1	\$ 10,321.00	
84" Hobas Pipe	450	LF		\$ 647,948.00	1312.5	\$ 52.50	\$ 68,909.00	\$ 89,892.00	\$ 806,749.00	 	\$ 806,749.00	
Haul out of Muck	359	CY		\$ 6,475.00	211.86	\$ 53.57	\$ 11,349.00	\$ 14,168.00	\$ 31,992.00	1	\$ 31,992.00	
Dewatering	450	LF		\$ 44,191.00	45		\$ 2,280.00		\$ 47,510.00	1	\$ 47,510.00	
<u>. </u>	.50			,,,,,,,,,,,	"	, 20.07	,200.00	,,,,,,,,,	- 17,510.00		, 5 1 0 . 0 0	
Flap Valves											<u> </u>	
Credits	4	EA	\$ -	\$ (10,000.00)			\$ -	\$ -	\$ (10,000.00)		\$ (10,000.00)	60" Flap Valves
8" AV Butterfly Valves												
			\$ -	\$ -	0	#DIV/0!	\$ -	\$ -	\$ -	ļ	\$ -	
Hatches			e	¢	0	#DIV/01	¢	6	6	1	¢	
Platform			\$ -	\$ -	0	#DIV/0!	\$ -	S -	\$ -	1	S -	
Platform	48	SF	\$ -	\$ -	80	\$ 49.54	\$ 3,963.00	\$ 1.791.00	\$ 5,754.00	1	\$ 5,754.00	
Restoration West Ave. from Lincoln Rd. to 17th	70	DI:	· -	· -	30	9 77.24	w 5,705.00	y 1,/71.00	φ 5,754.00	+	5,754.00	
Milling Existing Asphalt	3310	SY	\$ 9,930.00	\$ -			\$ -	s -	\$ 9,930.00		\$ 9,930.00	
Road Grading	3310	SY	\$ -	\$ 6,698.00	132	\$ 51.06	\$ 6,740.00	\$ 5,563.00	\$ 19,001.00		\$ 19,001.00	İ
Paving	3310	SY	\$ 49,650.00	\$ -			\$ -	\$ -	\$ 49,650.00		\$ 49,650.00	
Striping and Signage	1	LS	\$ 12,500.00	\$ -			\$ -	\$ -	\$ 12,500.00		\$ 12,500.00	
Header Pipe System					ļ		•					Tr. I Di G
Credits	1	LS	\$ -	\$ (62,534.00)	ļ		\$ -	5 -	\$ (62,534.00)	1	\$ (62,534.00)	Header Pipe System
			\$ 872,891.36	\$ 1 238 462 00	9425 07		\$ 458,992.00	\$ 421 886 00	\$ 2,992,231.36		\$ 2,992,231.36	
			y 0/2,031.30	y 1,230,402.00	2 4 03.97		y 4J0,332.00	y 421,000.UU		ntractor Markup		
										% RMCF Markup		
										Sond & Insurance		
									2.74/6		\$ 3,290,898.06	
											,,	I



				Activity	Unit Frice	Summary					
Biditem				Calend			Perm	Constr	Equip-	Sub-	
Activity	Description	Quantity	Unit	WC	Hrs/Sh	ft Labo	r Material	Matl/Exp	Ment	Contract	Total
*** 11		CES Engineer	ing			Takeoff:	1.00	IS	Bid:	1 (00 LS
11.01	CES Engineering	1.00	0	F6319A	50 10.0		1.00	152,500	Dia.	1.0	152,500
Mh:	Shifts:	Mh/Un:	Lo	Un/Sh:	30 10.	,,		152,500.00		1.5	52,500.00
11.02	CES Engineering	1.00	TC	F6319A	50 10.0	00		44,217		13	44,217
	Shifts:	Mh/Un:	LS		30 10.0	<i>,</i>					
Mh:			1.0	Un/Sh:	50 104	NO.		44,217.04		4	14,217.04
11.03	CES Engineering	1.00	LS	F6319A	50 10.0)()		174,468		1.5	174,468
Mh:	Shifts:	Mh/Un:		Un/Sh:				174,468.32		17	74,468.32
	****Biditem/Category	11 *****	****					371,185			371,185
Mh:	Mh/Un:							371,185.36		37	71,185.36
*** 12		Sidewalk/tree	removal/I	andscapii	ng/Fencir	g Takeoff:	1.00	LS	Bid:	1.0	00 LS
12.01	Fence 7' high	420.00	LF	F6319A	50 10.0	00				8,400	8,400
Mh:	Shifts:	Mh/Un:		Un/Sh:						20.00	20.00
12.02	Double Gate	1.00	EA	F6319A	50 10.0	00				10,000	10,000
Mh:	Shifts:	Mh/Un:		Un/Sh:						10,000.00 1	0,000.00
12.03	Landscaping 17th St.	. & Parkin 1.00	LS	F6319A	50 10.0	00				35,000	35,000
Mh:	Shifts:	Mh/Un:		Un/Sh:						35,000.00 3	
12.04	Irrigation	1.00	LS	F6319A	50 10.0	00				5,000	5,000
Mh:	Shifts:	Mh/Un:	20	Un/Sh:	20 10.					5,000.00	
12.05	Sidewalk - 6' wide	3,000.00	CE.	F6319A	50 10.0	00				30,000	30,000
Mh:	Shifts:	,	31		30 10.	<i>,</i>				,	10.00
		Mh/Un:	IC	Un/Sh:	50 107	MA				10.00	
12.06	Tree Removal	1.00	LS	F6319A	50 10.0)()				5,000	5,000
Mh:	Shifts:	Mh/Un:		Un/Sh:						5,000.00	3,000.00
***** Mh:	****Biditem/Category Mh/Un:	12 *****	****							93,400 93,400.00 9	93,400 93,400,00
IVIII.	will on.									73,400.00 7	75,400.00
*** 13		Utility Relocat	topn			Takeoff:	1.00	LS	Bid:	1.0	00 LS
13.01	Utility Relocatopn	1.00		F6319A	50 10.0	00 14,60	4	1,200	13,886		29,690
Mh:	300.00 Shifts:	5.0 Mh/Un:	300.0000	Un/Sh:	0.200			1,200.00	13,885.80		29,689.73
								-,	,	_	.,,,,,,,,,,,
*****	****Biditem/Category	13 *****	****			14,60	1	1,200	13,886		29,690
Mh:	300.00 Mh/Un:	300.0000				14,603.9		1,200.00	13,885.80	-	29,689.73
IVIII.	300.00 IVIII/ UII.	300.0000				14,003.9	,	1,200.00	13,863.60	2	.9,069.73
*** 14		TIME D	,			T. 1 CC	1.00	T.C.	D:1	1.	00.1.0
17	11:11: D 1	Utility Remov		E(2104	50 10 4	Takeoff:	1.00		Bid:	1.0	00 LS
14.01	Utility Removals	830.00		F6319A				960	11,109		23,752
Mh:	240.00 Shifts:	4.0 Mh/Un:	0.2892	Un/Sh:	207.500	00 14.0	8	1.16	13.38		28.62
*****	****Biditem/Category	14 *****	****			11,68		960	11,109		23,752
Mh:	240.00 Mh/Un:	240.0000				11,683.1	4	960.00	11,108.64	2	23,751.78
*** 15		Paving Parkin	g Lot			Takeoff:	1.00	LS	Bid:	1.0	00 LS
15.01	Paving Parking Lot	1,611.00	SY	F6319A	50 10.0	00				24,926	24,926
Mh:	Shifts:	Mh/Un:		Un/Sh:						15.47	15.47
15.02	Aphalt Removal & St	tone Base 1.000.00	SY	F6319A	50 10.0	00 8,76	2 2,675	3,000	8,331		22,769
Mh:	180.00 Shifts:	3.0 Mh/Un:		Un/Sh:				3.00	8.33		22.77
*****	****Biditem/Category	15 *****	****			8,76	2,675	3,000	8,331	24,926	47,695
Mh:	180.00 Mh/Un:	180.0000					8 2,675.00	3,000.00	,	24,926.30 4	,
14111.	100.00 WILL CIT.	100.0000				0,702.5	2,073.00	3,000.00	0,551.40	24,720.30 4	7,075.10
*** 16		MOT 17th St.	& West A	WO.		Takeoff:	1.00	IS	Bid:	1 (00 LS
16.01	MOT 17th St. & Wes			F6319A	50 10.0			10,300	13,200		65,139
					30 10.0					,	
Mh:	880.00 Shifts:	Mh/Un:	880.0000	Un/Sh:		34,139.4	b	10,300.00	13,200.00	7,500.00 6	5,139.46
	****Biditem/Category	16 *****	****			34,13		10,300	13,200		65,139
Mh:	880.00 Mh/Un:	880.0000				34,139.4	6	10,300.00	13,200.00	7,500.00 6	55,139.46
*** 17		Platform Scre	0			Takeoff:	1.00	LS	Bid:	1.0	00 LS
17.01	Platform Screening &	& Support 3,400.00	SF	F6319A	50 10.0	00 58,41	6 277,478		17,051		352,945
Mh:	1,200.00 Shifts: 2	20.0 Mh/Un:	0.3529	Un/Sh:	170.000	00 17.1	8 81.61		5.02		103.81
17.02	Curb & Gutter	420.00		F6319A						14,700	14,700
Mh:	Shifts:	Mh/Un:		Un/Sh:						35.00	35.00



						Activity	Unit Frice S	ouiiiiiai y					
Biditem Activity	Description			Quantity	Unit	Calen WC	dar Hrs/Shift	Labor	Perm Material	Constr Matl/Exp	Equip- Ment	Sub- Contract	Total
	*****Biditem/C	Category Mh/Un:	17 1,2	*****	****			,	277,478 277,477.75		17,051 17,051.20	14,700 14,700.00	367,645 367,644.71
*** 18			F	PL Vault				Takeoff:	1.00	LS	Bid:	1	.00 LS
18.01 Mh:	FPL Vault	t Shifts:		1.00 Mh/Un:	LS	F6319A Un/Sh:	50 10.00					171,600 171,600.00	171,600 171,600.00
***** Mh:	*****Biditem/C	Category Mh/Un:	18	****	****							171,600 171,600.00	171,600 171,600.00
*** 19			T	ransition Bo	X			Takeoff:	1.00	LS	Bid:	1	.00 LS
19.01	Cofferdan			5,400.00			50 10.00	84,968	13,375		112,915	,	381,258
Mh:			22.0	Mh/Un:			245.4545	15.73	2.48		20.91	31.48	70.60
19.02 Mh:	300.00	Backfill e: Shifts:	xtra at d 5.0	leep 800.00 Mh/Un:	0.3750	F6319A Un/Sh:		14,604 18.25	3,852 4.82		13,886 17.36		32,342 40.43
19.03	Backfill P		3.0	320.00		F6319A		8,762	5,136	8,000	8,331		30,230
Mh:	180.00	Shifts:	3.0	Mh/Un:		Un/Sh:		27.38	16.05	25.00	26.04		94.47
19.04	Dewaterin			1.00		F6319A			16,374		4,617		31,122
Mh:		Shifts:	4.0	Mh/Un:		Un/Sh:	0.2500		16,374.36		4,616.68		31,122.40
	*****Biditem/C 2,440.00	Category Mh/Un:	19 2,4	40.0000	****			118,466 118,465.60		8,000 8,000.00	139,749 139,749.19	170,000 170,000.00	474,952 474,952.15
*** 20			D	issipator Re	ceiver Box	[Takeoff:	1.00	LS	Bid:	1	.00 LS
20.01	Dissipator	Receiver	Box	4,200.00	SF	F6319A	50 10.00	30,897	13,375		35,857	100,000	180,129
Mh:	640.00	Shifts:	8.0	Mh/Un:	0.1524	Un/Sh:	525.0000	7.36	3.18		8.54	23.81	42.89
20.02	Tremie Se			20.00		F6319A		7,010	2,782		7,200		16,992
Mh:	144.00	Shifts:	2.4	Mh/Un:		Un/Sh:	8.3333	350.50	139.10		360.01		849.60
20.03	Backfill -			800.00		F6319A		14,604	2,889		13,886		31,379
Mh:		Shifts:	5.0	Mh/Un:		Un/Sh:		18.25	3.61	5.250	17.36		39.22
20.04	Backfill Po		2.0	400.00		F6319A Un/Sh:	50 10.00	8,762 21.91	6,420 16.05	5,250	8,331		28,764 71.91
Mh: 20.05	Dewaterin	Shifts:	3.0	Mh/Un: 1.00		F6319A		6,414	16.03	13.13	20.83 2,922		25,710
Mh:		Shifts:	2.5	Mh/Un:		Un/Sh:		,	16,374.36		2,922.36		25,710.25
	***** Biditem/C 1,390.61	Category Mh/Un:	20 1,3	***** 90.6100	****			67,687 67,687.16	41,840 41,840.36	5,250 5,250.00	68,197 68,196.54	100,000 100,000.00	282,974 282,974.06
*** 21			1'	7th Sea Wall	& Lincol	n Rd.		Takeoff:	1.00	LS	Bid:	1	.00 LS
21.01	Credits			-1.00	LS	F6319A	50 10.00			-19,000			-19,000
Mh:		Shifts:		Mh/Un:		Un/Sh:				19,000.00			19,000.00
21.02	Sea Wall I		`	,			50 10.00		,	300	8,331	3,500	,
Mh:		Shifts:	4.0	Mh/Un:		Un/Sh:	20.0000	146.04	133.75	3.75	104.14	43.75	431.43
21.03 Mh:	Pile Cap R 640.00	Replaceme Shifts:	5.0	12.00 Mh/Un:		F6319A Un/Sh:	50 10.00 2.4000				21,761		111,358
Mn: 21.04	Tremie Se		3.0	Mn/Un: 20.00			50 10.00	2,564.12 7,010			1,813.40 6,665	1,500.00	9,279.85
Mh:		Shifts:	2.4	Mh/Un:		Un/Sh:		350.50			333.26		822.85
21.05	Dewaterin		2	1.00			50 10.00				1,154		10,321
Mh:	50.00	Shifts:	1.0	Mh/Un:	50.0000	Un/Sh:			6,634.00		1,154.17		10,320.99
	***** Biditem/C 1,074.00	Category Mh/Un:	21 1,0	**** 974.0000	****			51,995 51,995.25	63,344 63,344.00	-18,700 -18,700.00	37,912 37,911.63	19,100 19,100.00	153,651 153,650.88
*** 22			84	4" Hobas Pip	oe .			Takeoff:	1.00	LS	Bid:	1	.00 LS
22.01	84" PCCP			450.00	LS	F6319A	50 10.00	68,909	647,948		89,892		806,750
Mh:			18.8	Mh/Un:		Un/Sh:		153.13			199.76		1,792.78
380.02	Haul Out 1			80.00		F6319A	50 10.00	,		6,475	14,168		31,992
Mh:		Shifts:		Mh/Un:		Un/Sh:	50 1000	141.86		80.94	177.10		399.90
380.03 Mh:	Dewaterin 45.00	ng Shifts:	0.9	450.00 Mh/Un:		F6319A Un/Sh:	50 10.00 500.0000	2,280 5.07	44,191 98.20		1,039 2.31		47,509 105.58
	***** Biditem/C 1,569.36	Category Mh/Un:	22 1,5	***** 69.3600	****			82,538 82,537.65	692,139 692,139.13	6,475 6,475.00	105,099 105,099.06	8	886,251 86,250.84



Biditem Activity	Description		Quantity	Unit	Calend WC	dar Hrs/Shift	Labor	Perm Material	Constr Matl/Exp	Equip- Ment	Sub- Contract	Total
*** 23			60" Flap Valv	/es			Takeoff:	1.00	LS	Bid:	1.0	00 LS
23.01	Credits		-4.00) EA	F6319A	50 10.00			-10,000			-10,000
Mh:	Shifts:		Mh/Un:		Un/Sh:				2,500.00			2,500.00
***** Mh:	****Biditem/Catego Mh/U		23 ****	****					-10,000 -10,000.00		-1	-10,000 0,000.00
*** 26			PLatform				Takeoff:	1.00	LS	Bid:	1.0	00 LS
26.01	PLatform		48.00) SF	F6319A	50 10.00	3,963			1,791		5,754
Mh:	80.00 Shifts:		Mh/Un:	1.666	7 Un/Sh:		82.56			37.31		119.87
*****	****Biditem/Catego	·v 2	26 ****	****			3,963			1,791		5,754
Mh:	80.00 Mh/U		80.0000				3,962.68			1,790.88		5,753.56
*** 27			Restoration V	Vest Ave.	from Linco	oln Rd. to 1	7Takeoff:	1.00	LS	Bid:	1.0	00 LS
27.01	Milling Existing	Asphalt	3,310.00) SY	F6319A	50 10.00					9,930	9,930
Mh:	Shifts:	•	Mh/Un:		Un/Sh:						3.00	3.00
27.02	Road Grading		3,300.00) SY	F6319A	50 10.00	6,740	6,698		5,563		19,001
Mh:	132.00 Shifts:	3.3	Mh/Un:	0.040	0 Un/Sh:	1,000.0000	2.04	2.03		1.69		5.76
27.03	Paving		3,310.00) SY	F6319A	50 10.00					49,650	49,650
Mh:	Shifts:		Mh/Un:		Un/Sh:						15.00	15.00
27.04	Striping and Sigr	age	1.00) LS	F6319A	50 10.00					12,500	12,500
Mh:	Shifts:		Mh/Un:		Un/Sh:						12,500.00 1	2,500.00
*****	****Biditem/Catego	·y 2	27 ****	****			6,740	6,698		5,563	72,080	91,081
Mh:	132.00 Mh/U	n:	132.0000				6,740.05	6,698.20		5,562.97	72,080.00 9	01,081.22
*** 28			Header Pipe S	System			Takeoff:	-1.00	LS	Bid:	-1.0	00 LS
28.01	Header Pipe Syst	em	-1.00	LS	F6319A	50 10.00)		-62,534			-62,534
Mh:	Shifts:		Mh/Un:		Un/Sh:				62,534.00		6	52,534.00
*****	****Biditem/Catego	·y 2	28 ****	****					-62,534			-62,534
Mh:	Mh/U	n:							62,534.00		6	52,534.00
Mh:	9,485.97 ***R	EPORT	TOTALS***				458,993	1,122,912	315,136	421,887	673,306 2	2,992,235

N = Activity not adjusted to bid quantity



West Avenue North - 091

Water Quality Rev-1	5/10/2021										
Item General Conditions	Qty	Unit	Subcontractor	Material	МН	Labor Rate	Total	Equipment	NewTotal	Original Total Delta	Notes
General Conditions	1	LS	\$ -	\$ 426,230.00	600	\$ 347.13	\$ 208,275.00	\$ 72,000.00	\$ 706,505.00	\$ 706,505.00	
Settelment Tank Drill 30' Template											
Exacavate and Haul Concrete Template Forms (Sonotube)	170 115 120	CY CY EA	\$ 835.00 \$ - \$ -	\$ - \$ 16,082.00 \$ 7,790.00	140 151.67 840	\$ 47.64	\$ 6,670.00 \$ 7,226.00 \$ 40,019.00	\$ 9,110.00 \$ 9,871.00 \$ 54,660.00	\$ 16,615.00 \$ 33,179.00 \$ 102,469.00	\$ 16,615.00 \$ 33,179.00 \$ 102,469.00	
Forms (Exterior) Blocking	5 5 1	EA EA LS	\$ - \$ - \$ 9,750.00	\$ 6,433.00 \$ -	140 35		\$ 6,670.00 \$ 1,667.00	\$ 9,110.00 \$ 2,277.00	\$ 22,213.00 \$ 3,944.00 \$ 9,750.00	\$ 22,213.00 \$ 3,944.00 \$ 9,750.00	
Survey Concrete Pump Haul Old Template Debris	1 1	LS LS	\$ 9,750.00 \$ 3,574.00 \$ -	\$ - \$ - \$ 6,722.00	70	\$ 47.64	\$ - \$ - \$ 3,335.00	\$ - \$ - \$ 4,555.00	\$ 9,750.00 \$ 3,574.00 \$ 14,612.00	\$ 9,750.00 \$ 3,574.00 \$ 14,612.00	
Drill and Place Grout Drill and Place Grout Grout			\$ - \$ -	\$ - \$ 116,595.00	3600	\$ 44.54	\$ 160,359.00	\$ 415,160.00	\$ 575,519.00 \$ 116,595.00	\$ 575,519.00 \$ 116,595.00	
Rebar Spoils Disposal	119400 750	LBS CY	\$ 35,910.00 \$ 8,454.00	\$ 57,636.36 \$ -			\$ - \$ -	\$ -	\$ 93,546.36 \$ 8,454.00	\$ 93,546.36 \$ 8,454.00	
Concrete Pump Mass Excavation and Tremie Excavation	750 740	CY	\$ 10,721.00 \$ - \$ -	\$ - \$ -	400	\$ 44.19	\$ -	\$ -	\$ 10,721.00 \$ 40,449.00	\$ 10,721.00 \$ 40,449.00	
Excavation (Last 4') Clean Sides	110 5	CY EA	\$ - \$ -	\$ -	173.34 120	\$ 44.18 \$ 44.18	\$ 7,659.00 \$ 5,302.00	\$ 9,871.00 \$ 6,832.00	\$ 17,530.00 \$ 12,134.00	\$ 17,530.00 \$ 12,134.00	
Tremie Pour Tremie Rebar/Bottom Slab Dewater and Seal	125 10000 5	CY LB EA	\$ - \$ 2,992.50 \$ -	\$ 16,853.00 \$ 5,336.63 \$ -	260		\$ 11,488.00 \$ - \$ 8,838.00	\$ 14,804.00 \$ - \$ 11,387.00	\$ 43,145.00 \$ 8,329.13 \$ 20,225.00	\$ 43,145.00 \$ 8,329.13 \$ 20,225.00	
Leveling Course Trucking	50 1	CY LS	\$ - \$ 9,582.00	\$ 6,701.00	198.33		\$ 9,450.00 \$ -	\$ 12,904.00 \$ -	\$ 29,055.00 \$ 9,582.00	\$ 29,055.00 \$ 9,582.00	
Tremie Pump and Leveling Course Poly Tube Injection / Seal	1	LS LS	\$ 3,216.00	\$ 8,935.00			\$ -	\$ -	\$ 3,216.00 \$ 8,935.00	\$ 3,216.00 \$ 8,935.00	
Wet Well Drill 33' (15' Dia.) Template	470	CV	Å 935.00	^	140	Ć 47.64	Ć (C70.00	Ć 0.440.00	A 45 545 00	45 545 00	
Exacavate and Haul Concrete Template Forms (Sonotube)	170 115 120	CY CY EA	\$ 835.00 \$ - \$ -	\$ 16,082.00 \$ 7,790.00	140 151.67 840	\$ 47.64	\$ 6,670.00 \$ 7,226.00 \$ 40,019.00	\$ 9,110.00 \$ 9,871.00 \$ 54,660.00	\$ 16,615.00 \$ 33,179.00 \$ 102,469.00	\$ 16,615.00 \$ 33,179.00 \$ 102,469.00	
Forms (Exterior) Blocking	5	EA EA	\$ -	\$ 6,433.00	140 35		\$ 6,670.00 \$ 1,667.00	\$ 9,110.00 \$ 2,277.00	\$ 22,213.00 \$ 3,944.00	\$ 22,213.00 \$ 3,944.00	
Survey Concrete Pump Haul Old Template Debris	1 1 1	LS LS LS	\$ 9,750.00 \$ 3,574.00 \$ -	\$ - \$ - \$ 6,722.00	70	\$ 47.64	\$ - \$ - \$ 3,335.00	\$ - \$ - \$ 4,555.00	\$ 9,750.00 \$ 3,574.00 \$ 14,612.00	\$ 9,750.00 \$ 3,574.00 \$ 14,612.00	
Drill and Place Grout Drill and Place Grout Grout	120 810	EA CY	\$ - \$ -	\$ - \$ 135,725.00	4760	\$ 44.54	\$ 212,031.00 \$ -	\$ 548,935.00 \$ -	\$ 760,966.00 \$ 135,725.00	\$ 760,966.00 \$ 135,725.00	
Rebar Spoils Disposal	113400 750	LBS CY	\$ 34,190.00 \$ 9,394.00	\$ 60,987.00 \$ -			\$ - \$ -	\$ -	\$ 95,177.00 \$ 9,394.00	\$ 95,177.00 \$ 9,394.00	
Concrete Pump Mass Excavation and Tremie Excavation	810 810	CY	\$ 10,721.00 \$ -	\$ -	372	\$ 44.19	\$ -	\$ -	\$ 10,721.00 \$ 37,618.00	\$ 10,721.00 \$ 37,618.00	
Excavation (Last 8') Clean Sides	235 5	CY EA	\$ - \$ -	\$ - \$ -	370.31 146.66	\$ 44.18 \$ 44.18	\$ 16,362.00 \$ 6,480.00	\$ 21,085.00 \$ 8,349.00	\$ 37,447.00 \$ 14,829.00	\$ 37,447.00 \$ 14,829.00	
Tremie Pour Tremie Rebar/Bottom Slab Dewater and Seal	125 28000 1	CY LB LS	\$ 3,024.00 \$ -	\$ 19,363.00 \$ 5,393.00 \$ -	197.92 0 173.34	\$ 44.18	\$ 8,745.00 \$ - \$ 7,659.00	\$ 11,269.00 \$ - \$ 9,871.00	\$ 39,377.00 \$ 8,417.00 \$ 17,530.00	\$ 39,377.00 \$ 8,417.00 \$ 17,530.00	
Leveling Course Trucking	35 1	CY LS	\$ - \$ 9,582.00	\$ 4,691.00 \$ -	116.67		\$ 5,558.00 \$ -	\$ 7,593.00 \$	\$ 17,842.00 \$ 9,582.00	\$ 17,842.00 \$ 9,582.00	
Tremie Pump and Leveling Course Poly Tube Injection / Seal Mechanical Work	1	LS LS	\$ 3,216.00	\$ - \$ 8,350.00			\$ - \$ -	\$ -	\$ 3,216.00 \$ 8,350.00	\$ 3,216.00 \$ 8,350.00	
Baffle Skimmer 25 HP Flygt Pump	5 5	EA EA	\$ - \$ -	\$ 53,500.00 \$ 693,997.00	100 600	\$ 46.66	\$ 4,864.00 \$ 27,996.00	\$ 5,850.00 \$ 29,250.00	\$ 64,214.00 \$ 751,243.00		
12" DIP Discharge 12" Check Valve NBG Sets / Flanges	550 5 100	LF EA EA	\$ - \$ -	\$ 17,770.00 \$ 31,828.00 \$ 46,331.00	146.66 45 300	\$ 48.64	\$ 7,133.00 \$ 2,189.00 \$ 14,592.00	\$ 8,579.00 \$ 2,632.00 \$ 17,550.00	\$ 33,482.00 \$ 36,649.00 \$ 78,473.00	\$ 33,482.00 \$ 36,649.00 \$ 78,473.00	
24" x 12" Cross w/ Cap 24" Well	5 500	EA LF	\$ - \$ 375,000.00	\$ 11,140.00 \$ 9,095.00	40 25	\$ 48.65 \$ 48.68	\$ 1,946.00 \$ 1,217.00	\$ 2,340.00 \$ 1,462.00	\$ 15,426.00 \$ 386,774.00	\$ 15,426.00 \$ 386,774.00	
36" x 78" HS 20 Hatch & Frame 56" x 60" HS 20 Hatch & Frame 56" x 112" HS 20 Hatch & Frame	5 5 5	EA EA	\$ - \$ -	\$ - \$ -	25 25 40	\$ 48.68	\$ 1,217.00 \$ 1,217.00 \$ 1,946.00	\$ 1,462.00 \$ 1,462.00 \$ 2,340.00	\$ 2,679.00 \$ 2,679.00 \$ 4,286.00	\$ 2,679.00 \$ 2,679.00 \$ 4,286.00	
11'-8" x 8' x 7' Vault Concrete Cover (15' Dia.)	5	EA EA	\$ -	\$ 48,150.00 \$ 56,175.00	250 60	\$ 48.63	\$ 12,160.00 \$ 2,918.00	\$ 14,625.00 \$ 3,510.00	\$ 74,935.00 \$ 62,603.00	\$ 74,935.00 \$ 62,603.00	
Platform (8.44 NAVD) Landscaping Screening Grout / Seal / Coatings	5 5 5	LS LS	\$ 40,000.00 \$ 37,500.00 \$ -	\$ -	225		\$ 1,459.00 \$ - \$ 10,944.00	\$ 1,755.00 \$ - \$ 13,162.00	\$ 43,214.00 \$ 37,500.00 \$ 50,856.00	\$ 43,214.00 \$ 37,500.00 \$ 50,856.00	
Start up / Commissioning Warranty Allowance 24" Well Credit	5 1	EA LS	\$ - \$ (201,251.00)	\$ 1,605.00 \$ 10,700.00	50 100		\$ 2,432.00 \$ 4,864.00	\$ 2,925.00	\$ 6,962.00 \$ 21,414.00 \$ (201,251.00)	\$ 6,962.00 \$ 21,414.00 \$ (201,251.00)	
Electrical / I&C Control Pannels w/ Floats	5	EA	\$ 170,000.00	\$ -			\$ -	\$ -	\$ 170,000.00	\$ 170,000.00	
Ductbank - Civil Settelment Tank Drill 30'	1650	LF	\$ -	\$ 26,322.00	2227	\$ 46.67	\$ 103,936.00	\$ 108,589.00	\$ 238,847.00	\$ 238,847.00	
Template Exacavate and Haul	98	CY	\$ -	\$ -	84		\$ 4,002.00	\$ 5,466.00	\$ 9,468.00	\$ 9,468.00	
Concrete Template Forms (Sonotube) Forms (Exterior)	78 64 2	CY EA EA	\$ - \$ -	\$ 13,375.00 \$ 4,109.00 \$ 5,350.00	98 448 56	\$ 47.64	\$ 4,669.00 \$ 21,344.00 \$ 2,668.00	\$ 6,377.00 \$ 29,152.00 \$ 3,644.00	\$ 24,421.00 \$ 54,605.00 \$ 11,662.00	\$ 24,421.00 \$ 54,605.00 \$ 11,662.00	
Blocking Survey	2 2	EA EA	\$ -	\$ 1,070.00 \$ -	42		\$ 2,001.00	\$ 2,733.00 \$ -	\$ 5,804.00 \$ 7,800.00	\$ 5,804.00 \$ 7,800.00	
Concrete Pump Haul Old Template Debris Drill and Place Grout	2	EA EA	\$ 2,333.00	\$ -	21	\$ 47.62	\$ 1,000.00	\$ - \$ 1,366.00	\$ 2,333.00 \$ 3,166.00	\$ 2,333.00 \$ 3,166.00	
Drill and Place Grout Grout	64 384 67200	EA CY LBS	\$ - \$ - \$ 34,361.00	\$ - \$ 59,578.00 \$ 36,046.00	1917	\$ 44.54	\$ 85,391.00	\$ 221,073.00	\$ 306,464.00 \$ 59,578.00 \$ 70,407.00	\$ 306,464.00 \$ 59,578.00 \$ 70,407.00	
Rebar Spoils Disposal Concrete Pump	300 384	CY CY	\$ 5,062.00 \$ 4,815.00	\$ 36,046.00	0		\$ - \$ -	\$ - \$ -	\$ 70,407.00 \$ 5,062.00 \$ 4,815.00	\$ 70,407.00 \$ 5,062.00 \$ 4,815.00	
Mass Excavation and Tremie Excavation Excavation (Last 4')	558 186	CY CY	\$ - \$ -	\$ -	368 296		\$ 16,260.00 \$ 13,079.00	\$ 20,953.00 \$ 16,853.00	\$ 37,213.00 \$ 29,932.00	\$ 37,213.00 \$ 29,932.00	
Clean Sides Tremie Pour	2 90	EA CY	\$ - \$ -	\$ - \$ 9,619.00	128 124.14	\$ 44.19	\$ 5,656.00 \$ 5,485.00	\$ 7,288.00 \$ 7,069.00	\$ 12,944.00 \$ 22,173.00	\$ 12,944.00 \$ 22,173.00	
Tremie Rebar/Bottom Slab Dewater and Seal Leveling Course	20300 2 24	LBS EA CY	\$ 5,481.00 \$ - \$ -	\$ 5,865.00 \$ - \$ 3,210.00	80 56		\$ 3,535.00 \$ 2,668.00	\$ 4,555.00 \$ 3,644.00	\$ 11,346.00 \$ 8,090.00 \$ 9,522.00	\$ 11,346.00 \$ 8,090.00 \$ 9,522.00	
Trucking Tremie Pump and Leveling Course	1 2	LS EA	\$ 10,547.00 \$ 2,140.00	\$ - \$ -	0		\$ - \$ -	\$ - \$ -	\$ 10,547.00 \$ 2,140.00	\$ 10,547.00 \$ 2,140.00	
Poly Tube Injection / Seal Wet Well Drill 33' (20' Dia.)	2	EA	\$ -	\$ 5,350.00	0		\$ -	\$ -	\$ 5,350.00	\$ 5,350.00	
Template Exacavate and Haul	123	CY	\$ -	\$ -	105.42	\$ 47.64	\$ 5,022.00	\$ 6,860.00	\$ 11,882.00	\$ 11,882.00	
Concrete Template Forms (Sonotube) Forms (Exterior)	98 64 2	CY EA EA	\$ - \$ -	\$ 16,853.00 \$ 5,136.00 \$ 5,350.00	123.13 448 56	\$ 47.64	\$ 5,866.00 \$ 21,344.00 \$ 2,668.00	\$ 8,012.00 \$ 29,152.00 \$ 3,644.00	\$ 30,731.00 \$ 55,632.00 \$ 11,662.00	\$ 30,731.00 \$ 55,632.00 \$ 11,662.00	
Blocking Survey	2	EA LS	\$ - \$ 7,800.00	\$ 1,070.00	42		\$ 2,001.00	\$ 2,733.00	\$ 5,804.00 \$ 7,800.00	\$ 5,804.00 \$ 7,800.00	
Concrete Pump Haul Old Template Debris Drill and Place Grout	1	LS LS	\$ 3,745.00	\$ -	21	\$ 47.62	\$ - \$ 1,000.00	\$ - \$ 1,366.00	\$ 3,745.00 \$ 3,166.00	\$ 3,745.00 \$ 3,166.00	
Drill and Place Grout Grout	64 480 67200	EA CY LBS		\$ - \$ 74,472.00 \$ 36,046.00	1872 0	\$ 44.54		\$ 215,883.00 \$ - \$ -	\$ 299,270.00 \$ 74,472.00 \$ 70,407.00		
Rebar Spoils Disposal Concrete Pump	375 384	CY CY	\$ 6,328.00	\$ 36,046.00 \$ - \$ -	0		\$ -	\$ - \$ -	\$ 70,407.00 \$ 6,328.00 \$ 6,019.00	\$ 6,328.00	
Mass Excavation and Tremie Excavation Excavation (Last 8')	698 232	CY CY	\$ - \$ -	\$ - \$ -	460.33 369.2	\$ 44.19 \$ 44.18	\$ 20,340.00 \$ 16,313.00	\$ 26,209.00 \$ 21,021.00	\$ 46,549.00 \$ 37,334.00		
Clean Sides Tremie Pour	2 90	EA CY	\$ - \$ -	\$ - \$ 12,102.00	104 124.14	\$ 44.18	\$ 4,595.00 \$ 5,485.00	\$ 5,921.00 \$ 7,069.00	\$ 10,516.00 \$ 24,656.00	\$ 10,516.00 \$ 24,656.00	
Tremie Rebar/Bottom Slab Dewater and Seal Leveling Course	11000 2 24	LBS EA CY	\$ 5,481.00 \$ - \$ -	\$ 5,864.67 \$ - \$ 3,210.00	0 80 56		\$ 3,535.00 \$ 2,668.00	\$ 4,555.00 \$ 3,644.00	\$ 11,345.67 \$ 8,090.00 \$ 9,522.00		
Trucking Tremie Pump and Leveling Course	1	LS LS	\$ 8,437.00 \$ 2,140.00	\$ - \$ -	0		\$ - \$ -	\$ -	\$ 8,437.00 \$ 2,140.00	\$ 8,437.00 \$ 2,140.00	
Poly Tube Injection / Seal Mechanical Work Baffle Skimmer	2	EA EA	\$ 5,350.00	\$ -	80			\$ -	\$ 5,350.00 \$ 62,071.00		
60 HP Flygt Pump 18" DIP Discharge	2 500	EA LF	\$ -	\$ 699,266.00 \$ 38,988.00	720 166.66	\$ 46.66 \$ 48.64	\$ 33,595.00 \$ 8,106.00	\$ 35,100.00 \$ 9,749.00	\$ 767,961.00 \$ 56,843.00	\$ 767,961.00 \$ 56,843.00	
18" Check Valve NBG Sets / Flanges 24" x 12" Cross w/ Cap	6 24 3	EA EA	\$ - \$ -	\$ 79,608.00 \$ 111,194.00 \$ 12,840.00	200 400 150	\$ 48.64	\$ 9,728.00 \$ 19,456.00 \$ 7,296.00	\$ 11,700.00 \$ 23,400.00 \$ 8,775.00	\$ 101,036.00 \$ 154,050.00 \$ 28,911.00		
24" Well	700	LF	Ÿ	\$ 226,086.00	125				\$ 764,478.00	T -0,0	

NBG Sets / Flanges	24	EA	\$ -	\$ 111,194.00	400				\$ 154,050.0		\$ 154,050.00	
24" x 12" Cross w/ Cap	3	EA	\$ -	\$ 12,840.00	150	\$ 48.64	\$ 7,296.00	\$ 8,775.00	\$ 28,911.0	0	\$ 28,911.00	
24" Well	700	LF	\$ 525,000.00	\$ 226,086.00	125	\$ 48.64	\$ 6,080.00		\$ 764,478.0	0	\$ 764,478.00	
48" x 100" HS 20 Hatch & Frame	2	EA	\$ -	\$ -	50	\$ 48.64	\$ 2,432.00	\$ 2,925.00	\$ 5,357.0	0	\$ 5,357.00	
75" x 86" HS 20 Hatch & Frame	2	EA	\$ -	\$ -	30	\$ 48.63	\$ 1,459.00	\$ 1,755.00	\$ 3,214.0	0	\$ 3,214.00	
56" x 112" HS 20 Hatch & Frame	2	EA	\$ -	\$ -	120	\$ 48.64	\$ 5,837.00	\$ 7,020.00	\$ 12,857.0	0	\$ 12,857.00	
55" x 51" HS 20 Hatch & Frame	3	EA	\$ -	\$ -	75	\$ 48.64	\$ 3,648.00	\$ 4,387.00	\$ 8,035.0	0	\$ 8,035.00	
36" x 60" HS 20 Hatch & Frame	2	EA	\$ -	\$ -	50	\$ 48.64	\$ 2,432.00	\$ 2,925.00	\$ 5,357.0	0	\$ 5,357.00	
11'-8" x 8' x 7' Vault	3	EA	\$ -	\$ 101,115.00	600	\$ 48.64	\$ 29,184.00	\$ 35,100.00	\$ 165,399.0	0	\$ 165,399.00	
Concrete Cover (15' Dia.)	2	EA	\$ -	\$ 38,520.00	45	\$ 48.64	\$ 2,189.00	\$ 2,632.00	\$ 43,341.0	0	\$ 43,341.00	
Platform (8.44 NAVD)	2	EA	\$ 5,000.00	\$ -	40	\$ 48.65	\$ 1,946.00	\$ 2,340.00	\$ 9,286.0	0	\$ 9,286.00	
Landscaping Screening	1	LS	\$ 15,000.00	\$ -	0		\$ -	\$ -	\$ 15,000.0	0	\$ 15,000.00	
Grout / Seal / Coatings	2	LS	\$ -	\$ 16,050.00	75	\$ 48.64	\$ 3,648.00	\$ 4,387.00	\$ 24,085.0	0	\$ 24,085.00	
Start up / Commissioning	2	EA	\$ -	\$ 1,070.00	30	\$ 48.67	\$ 1,460.00	\$ 1,755.00	\$ 4,285.0	0	\$ 4,285.00	
Warranty Allowance	1	LS	\$ -	\$ 10,700.00	40	\$ 48.65	\$ 1,946.00	\$ 2,340.00	\$ 14,986.0	0	\$ 14,986.00	
14th Ct. & Bay Rd. Set Up	2	EA	\$ -	\$ -	985	\$ 48.64	\$ 47,912.00	\$ 57,622.00	\$ 105,534.0	0	\$ 105,534.00	
24" Well Credit	1	LS	\$ (281,750.00)	\$ -			\$ -	\$ -	\$ (281,750.0	0)	\$ (281,750.00)	
Electrical / I&C												
Control Pannels w/ Floats	2	EA	\$ 422,493.00	\$ -			\$ -	\$ -	\$ 422,493.0	0	\$ 422,493.00	
Ductbank - Civil	920	LF	\$ -	\$ 23,433.00	1380	\$ 46.66	\$ 64,391.00	\$ 67,274.00	\$ 155,098.0	0	\$ 155,098.00	
Rock Anchors												
Rock Anchors	8	EA		\$ 299,600.00					\$ 299,600.0	0	\$ 299,600.00	
24" Interconnecting Pipping												
Sheet Plating - Shoring	110	LBS	\$ 1,000.00	\$ 8,507.00	840	\$ 47.64	\$ 40,019.00	\$ 47,628.00	\$ 97,154.0	0	\$ 97,154.00	
Dewatering	1	LS	\$ -	\$ 10,138.00	240	\$ 51.61	\$ 12,387.00	\$ 8,904.00	\$ 31,429.0	0	\$ 31,429.00	
Excavation	300	CY	\$ 60,000.00	\$ 5,350.00	300	\$ 46.66	\$ 13,998.00	\$ 13,175.00	\$ 92,523.0	0	\$ 92,523.00	
Set up/Down & Install	1	LS	\$ -	\$ -	500	\$ 48.64	\$ 24,320.00	\$ 11,550.00	\$ 35,870.0	0	\$ 35,870.00	
Seal, Grout & Backfill	360	TN	\$ -	\$ 10,165.00	100	\$ 48.64	\$ 4,864.00	\$ 2,950.00	\$ 17,979.0	0	\$ 17,979.00	
Utility Relocation & Removals												
Utility Relocation & Removals	1	LS	\$ -	\$ 7,000.00	2450	\$ 47.64	\$ 116,723.00	\$ 83,885.00	\$ 207,608.0	0	\$ 207,608.00	
			\$ 1,489,512.50	\$ 4,038,618.66	36101.59		\$ 1,847,450.00	\$ 2,724,037.00	\$ 10,099,618.1	6	\$ 10,099,618.16	
		•		1			1		5% Su	contractor Markup		İ
										10% RMCF Markup		İ
									1.44	6 Bond & Insurance	\$ 145,434.50	İ
										ΤΟΤΔΙ	\$ 11,180,538.85	



Biditem Activity	Description	Quantity	Unit	Calendar WC H	Irs/Shift	Labor	Perm Material	Constr Matl/Exp	Equip- Ment	Sub- Contract	Total
*** 10		General Cond	itions			Takeoff:	1.00	LS	Bid:	1.	.00 LS
10.1	Mobilization	1.00	LS	F6319A 50	10.00			196,580			196,580
Mh:	Shifts:	Mh/Un:		Un/Sh:				196,580.00		1	96,580.00
10.2	General Conditions	1.00		F6319A 50	10.00	208,275		229,650	72,000	_	509,925
Mh:	600.00 Shifts:	Mh/Un:	600.0000) Un/Sh:		208,275.10		229,650.00	72,000.00	50	09,925.10
***** Mh:	*****Biditem/Category 600.00 Mh/Un:	10 ****** 600.0000	****			208,275 208,275.10		426,230 426,230.00	72,000 72,000.00	7	706,505 06,505.10
*** 31		Template				Takeoff:	1.00	IC	Bid:	1	.00 LS
31.01	Excavate and Haul	170.00	CY	F6319A 50		6,670	1.00	LS	9,110	835	16,615
Mh:		.0 Mh/Un:			85.0000	39.23			53.59	4.91	97.73
31.02	Concrete Template (5%			F6319A 50		7,226	16,082		9,871	7.71	33,179
Mh:		.2 Mh/Un:			53.0933	62.83	139.84		85.83		288.51
31.03	Forms - Sonotube	120.00		F6319A 50		40,019	137.01	7,790	54,660		102,469
Mh:	840.00 Shifts: 12			Un/Sh:	10.0000	333.49		64.91	455.50		853.91
31.04	Forms - Exterior	5.00		F6319A 50		6,670		6,433	9,110		22,213
Mh:		.0 Mh/Un:) Un/Sh:	2.5000	1,333.98		1,286.57	1,821.99		4,442.54
31.05	Blocking	5.00		F6319A 50		1,667		-,,-,	2,278		3,945
Mh:		.5 Mh/Un:	7.0000		10.0000	333.50			455.50		789.00
31.06	Survey	5.00		F6319A 50				9,750			9,750
Mh:	Shifts:	Mh/Un:		Un/Sh:				1,950.00			1,950.00
31.07	Pump Concrete	5.00	EA	F6319A 50	10.00			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3,574		3,574
Mh:	Shifts:	Mh/Un:		Un/Sh:					714.76		714.76
31.08	Haul Old Template De	bris 5.00	EA	F6319A 50	10.00	3,335		6,722	4,555		14,612
Mh:	•	.0 Mh/Un:	14.0000	Un/Sh:	5.0000	666.99		1,344.35	911.00		2,922.34
	*****Biditem/Category 1,376.67 Mh/Un:	31 ****** 1,376.6700	****			65,588 65,587.54	16,082 16,082.10	30,694 30,694.19	93,157 93,156.62		206,355 206,355.45
*** 32		Drill and PLac	ce Grout			Takeoff:	1.00	LS	Bid:	1.	.00 LS
32.01	D 31 1 1 1 C +						1.00	20		1.	
	Drill and Place Grout	120.00	EA	F6319A 50	10.00	160.359			415,160		575.519
	Drill and Place Grout 3,600.00 Shifts: 40	120.00 0.0 Mh/Un:	30.0000	F6319A 50 Un/Sh:	10.00	160,359 1,336.33			415,160 3,459.67		575,519 4,796.00
			30.0000		3.0000	160,359 1,336.33	116,595		415,160 3,459.67		575,519 4,796.00 116,595
Mh:	3,600.00 Shifts: 40	0.0 Mh/Un:	30.0000	Un/Sh:	3.0000		116,595 155.46				4,796.00
Mh: 32.02	3,600.00 Shifts: 40 Grout	0.0 Mh/Un: 750.00	30.0000 CY	Un/Sh: F6319A 50	3.0000 10.00					35,910	4,796.00 116,595
Mh: 32.02 Mh:	3,600.00 Shifts: 40 Grout Shifts:	0.0 Mh/Un: 750.00 Mh/Un:	30.0000 CY	Un/Sh: F6319A 50 Un/Sh:	3.0000 10.00		155.46			35,910 0.30	4,796.00 116,595 155.46
Mh: 32.02 Mh: 32.03	3,600.00 Shifts: 40 Grout Shifts: Rebar	0.0 Mh/Un: 750.00 Mh/Un: 119,400.00	30.0000 CY LBS	Un/Sh: F6319A 50 Un/Sh: F6319A 50	3.0000 10.00 10.00		155.46 57,636	8,454		,	4,796.00 116,595 155.46 93,546
Mh: 32.02 Mh: 32.03 Mh:	3,600.00 Shifts: 40 Grout Shifts: Rebar Shifts:	0.0 Mh/Un: 750.00 Mh/Un: 119,400.00 Mh/Un:	30.0000 CY LBS	Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh:	3.0000 10.00 10.00		155.46 57,636	8,454 11.27		,	4,796.00 116,595 155.46 93,546 0.78
Mh: 32.02 Mh: 32.03 Mh: 32.04	3,600.00 Shifts: 40 Grout Shifts: Rebar Shifts: Spoils Disposal	Mh/Un: 750.00 Mh/Un: 119,400.00 Mh/Un: 750.00	30.0000 CY LBS	Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50	3.0000 10.00 10.00 10.00		155.46 57,636			,	4,796.00 116,595 155.46 93,546 0.78 8,454
Mh: 32.02 Mh: 32.03 Mh: 32.04 Mh:	3,600.00 Shifts: 40 Grout Shifts: Rebar Shifts: Spoils Disposal Shifts:	Mh/Un: 750.00 Mh/Un: 119,400.00 Mh/Un: 750.00 Mh/Un:	30.0000 CY LBS	0 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh:	3.0000 10.00 10.00 10.00		155.46 57,636		3,459.67	,	4,796.00 116,595 155.46 93,546 0.78 8,454 11.27
Mh: 32.02 Mh: 32.03 Mh: 32.04 Mh: 32.05 Mh:	3,600.00 Shifts: 40 Grout Shifts: Rebar Shifts: Spoils Disposal Shifts: Concrete Pump	Mh/Un: 750.00 Mh/Un: 119,400.00 Mh/Un: 750.00 Mh/Un: 750.00	30.0000 CY LBS CY	0 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50	3.0000 10.00 10.00 10.00	1,336.33	155.46 57,636 0.48		3,459.67	0.30 35,910	4,796.00 116,595 155.46 93,546 0.78 8,454 11.27 10,721 14.30
Mh: 32.02 Mh: 32.03 Mh: 32.04 Mh: 32.05 Mh:	3,600.00 Shifts: 40 Grout Shifts: Rebar Shifts: Spoils Disposal Shifts: Concrete Pump Shifts:	Mh/Un: 750.00 Mh/Un: 119,400.00 Mh/Un: 750.00 Mh/Un: 750.00 Mh/Un: 32 *******	30.0000 CY LBS CY CY	0 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh:	3.0000 10.00 10.00 10.00 10.00	1,336.33	155.46 57,636 0.48	8,454 8,453.54	3,459.67 10,721 14.30 425,881	35,910 35,910.00	4,796.00 116,595 155.46 93,546 0.78 8,454 11.27 10,721 14.30
Mh: 32.02 Mh: 32.03 Mh: 32.04 Mh: 32.05 Mh:	3,600.00 Shifts: 40 Grout Shifts: Rebar Shifts: Spoils Disposal Shifts: Concrete Pump Shifts:	Mh/Un: 750.00 Mh/Un: 119,400.00 Mh/Un: 750.00 Mh/Un: 750.00 Mh/Un: 32 ****** 3,600.0000	30.0000CCY LBS CY CY cy con and T	0 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh:	3.0000 10.00 10.00 10.00 10.00	1,336.33 160,359 160,359.42	155.46 57,636 0.48 174,232 174,231.59	8,454 8,453.54	3,459.67 10,721 14.30 425,881 425,881.40	35,910 35,910.00	4,796.00 116,595 155.46 93,546 0.78 8,454 11.27 10,721 14.30 804,836 804,835.95
Mh: 32.02 Mh: 32.03 Mh: 32.04 Mh: 32.05 Mh: **** *** *** *** *** *** *** *** ***	3,600.00 Shifts: 40 Grout Shifts: Rebar Shifts: Spoils Disposal Shifts: Concrete Pump Shifts: *****Biditem/Category 3,600.00 Mh/Un:	Mh/Un: 750.00 Mh/Un: 119,400.00 Mh/Un: 750.00 Mh/Un: 750.00 Mh/Un: 32 ****** 3,600.0000 Mass Excavati	30.0000CCY LBS CY CY cy con and T	Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh:	3.0000 10.00 10.00 10.00 10.00	1,336.33 160,359 160,359.42 Takeoff:	155.46 57,636 0.48 174,232 174,231.59	8,454 8,453.54	3,459.67 10,721 14.30 425,881 425,881.40 Bid:	35,910 35,910.00	4,796.00 116,595 155.46 93,546 0.78 8,454 11.27 10,721 14.30 804,836 804,835.95
Mh: 32.02 Mh: 32.03 Mh: 32.04 Mh: 32.05 Mh: ******* Mh: ****** 33 33.01	3,600.00 Shifts: 40 Grout Shifts: Rebar Shifts: Spoils Disposal Shifts: Concrete Pump Shifts: *****Biditem/Category 3,600.00 Mh/Un:	Mh/Un: 750.00 Mh/Un: 119,400.00 Mh/Un: 750.00 Mh/Un: 750.00 Mh/Un: 32 ****** 3,600.0000 Mass Excavati 740.00	30.0000CCY LBS CY CY cy on and T CY 0.5405	0 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh:	3.0000 10.00 10.00 10.00 10.00 10.00 48.0000	1,336.33 160,359 160,359.42 Takeoff: 17,674	155.46 57,636 0.48 174,232 174,231.59	8,454 8,453.54	3,459.67 10,721 14.30 425,881 425,881.40 Bid: 22,775	35,910 35,910.00	4,796.00 116,595 155.46 93,546 0.78 8,454 11.27 10,721 14.30 804,836 804,835.95 00 LS 40,449
Mh: 32.02 Mh: 32.03 Mh: 32.04 Mh: 32.05 Mh: ******* Mh: ****** Mh: **** **** **** **** **** **** ****	3,600.00 Shifts: 40 Grout Shifts: Rebar Shifts: Spoils Disposal Shifts: Concrete Pump Shifts: *****Biditem/Category 3,600.00 Mh/Un: Excavation 400.00 Shifts: 5 Excavation (Last 8')	Mh/Un: 750.00 Mh/Un: 119,400.00 Mh/Un: 750.00 Mh/Un: 750.00 Mh/Un: 32 ****** 3,600.0000 Mass Excavati 740.00 .0 Mh/Un:	30.0000 CY LBS CY CY CY on and T CY 0.5405 CY	Mun/Sh: F6319A 50 Un/Sh: 1 F6319A 50	3.0000 10.00 10.00 10.00 10.00 10.00 48.0000	1,336.33 160,359 160,359.42 Takeoff: 17,674 23.88	155.46 57,636 0.48 174,232 174,231.59	8,454 8,453.54	3,459.67 10,721 14.30 425,881 425,881.40 Bid: 22,775 30.78	35,910 35,910.00	4,796.00 116,595 155.46 93,546 0.78 8,454 11.27 10,721 14.30 804,836 804,835.95 00 LS 40,449 54.66
Mh: 32.02 Mh: 32.03 Mh: 32.04 Mh: 32.05 Mh: ******* Mh: ******* Mh: 33.01 Mh: 33.02	3,600.00 Shifts: 40 Grout Shifts: Rebar Shifts: Spoils Disposal Shifts: Concrete Pump Shifts: *****Biditem/Category 3,600.00 Mh/Un: Excavation 400.00 Shifts: 5 Excavation (Last 8')	Mh/Un: 750.00 Mh/Un: 119,400.00 Mh/Un: 750.00 Mh/Un: 750.00 Mh/Un: 32 ****** 3,600.0000 Mass Excavati 740.00 .0 Mh/Un: 110.00	30.0000 CY LBS CY CY CY 0.5405 CY 1.5758	Mun/Sh: F6319A 50 Un/Sh: 1 F6319A 50	3.0000 10.00 10.00 10.00 10.00 48.0000 10.00 50.7849	1,336.33 1,336.33 160,359 160,359.42 Takeoff: 17,674 23.88 7,659	155.46 57,636 0.48 174,232 174,231.59	8,454 8,453.54	3,459.67 10,721 14.30 425,881 425,881.40 Bid: 22,775 30.78 9,871	35,910 35,910.00	4,796.00 116,595 155.46 93,546 0.78 8,454 11.27 10,721 14.30 804,836 804,835.95 00 LS 40,449 54.66 17,530
Mh: 32.02 Mh: 32.03 Mh: 32.04 Mh: 32.05 Mh: ****** Mh: **** *** *** *** *	3,600.00 Shifts: 40 Grout Shifts: Rebar Shifts: Spoils Disposal Shifts: Concrete Pump Shifts: *****Biditem/Category 3,600.00 Mh/Un: Excavation 400.00 Shifts: 5 Excavation (Last 8') 173.34 Shifts: 2 Clean Sides	Mh/Un: 750.00 Mh/Un: 119,400.00 Mh/Un: 750.00 Mh/Un: 750.00 Mh/Un: 32 ****** 3,600.0000 Mass Excavati 740.00 0.0 Mh/Un: 110.002 Mh/Un:	30.0000 CY LBS CY CY CY 0.5405 CY 1.5758 EA	Mun/Sh: F6319A 50 Un/Sh: 1 F6319A 50 Un/Sh: 1 F6319A 50 Un/Sh: 1	3.0000 10.00 10.00 10.00 10.00 48.0000 10.00 50.7849	1,336.33 1,336.33 160,359 160,359.42 Takeoff: 17,674 23.88 7,659 69.63	155.46 57,636 0.48 174,232 174,231.59	8,454 8,453.54	3,459.67 10,721 14.30 425,881 425,881.40 Bid: 22,775 30.78 9,871 89.73	35,910 35,910.00	4,796.00 116,595 155.46 93,546 0.78 8,454 11.27 10,721 14.30 804,836 804,835.95 00 LS 40,449 54.66 17,530 159.36
Mh: 32.02 Mh: 32.03 Mh: 32.04 Mh: 32.05 Mh: ****** Mh: **** 33.01 Mh: 33.02 Mh: 33.03	3,600.00 Shifts: 40 Grout Shifts: Rebar Shifts: Spoils Disposal Shifts: Concrete Pump Shifts: *****Biditem/Category 3,600.00 Mh/Un: Excavation 400.00 Shifts: 5 Excavation (Last 8') 173.34 Shifts: 2 Clean Sides	Mh/Un: 750.00 Mh/Un: 119,400.00 Mh/Un: 750.00 Mh/Un: 750.00 Mh/Un: 32 ****** 3,600.0000 Mass Excavati 740.00 .0 Mh/Un: 110.00 .2 Mh/Un: 5.00	30.0000 CY LBS CY CY CY 0.5405 CY 1.5758 EA 24.0000	Permie F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: 1 F6319A 50 Un/Sh: 1 F6319A 50 Un/Sh:	3.0000 10.00 10.00 10.00 10.00 48.0000 10.00 50.7849 10.00 3.3333	1,336.33 1,336.33 160,359 160,359.42 Takeoff: 17,674 23.88 7,659 69.63 5,302	155.46 57,636 0.48 174,232 174,231.59	8,454 8,453.54	3,459.67 10,721 14.30 425,881 425,881.40 Bid: 22,775 30.78 9,871 89.73 6,832	35,910 35,910.00	4,796.00 116,595 155.46 93,546 0.78 8,454 11.27 10,721 14.30 804,836 804,835.95 00 LS 40,449 54.66 17,530 159.36 12,135
Mh: 32.02 Mh: 32.03 Mh: 32.04 Mh: 32.05 Mh: ****** Mh: **** 33.01 Mh: 33.02 Mh: 33.03 Mh:	3,600.00 Shifts: 40 Grout Shifts: Rebar Shifts: Spoils Disposal Shifts: Concrete Pump Shifts: *****Biditem/Category 3,600.00 Mh/Un: Excavation 400.00 Shifts: 5 Excavation (Last 8') 173.34 Shifts: 2 Clean Sides 120.00 Shifts: 1 Tremie Pour	Mh/Un: 750.00 Mh/Un: 119,400.00 Mh/Un: 750.00 Mh/Un: 750.00 Mh/Un: 32 ****** 3,600.0000 Mass Excavati 740.00 0.0 Mh/Un: 110.00 .2 Mh/Un: 5.00 .5 Mh/Un:	30.0000 CY LBS CY CY CY 0.5405 CY 1.5758 EA 24.0000 CY	Permie F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50	3.0000 10.00 10.00 10.00 10.00 48.0000 10.00 50.7849 10.00 3.3333	1,336.33 1,336.33 160,359 160,359.42 Takeoff: 17,674 23.88 7,659 69.63 5,302 1,060.44	155.46 57,636 0.48 174,232 174,231.59	8,454 8,453.54	3,459.67 10,721 14.30 425,881 425,881.40 Bid: 22,775 30.78 9,871 89.73 6,832 1,366.50	35,910 35,910.00	4,796.00 116,595 155.46 93,546 0.78 8,454 11.27 10,721 14.30 804,836 804,835.95 00 LS 40,449 54.66 17,530 159.36 12,135 2,426.94
Mh: 32.02 Mh: 32.03 Mh: 32.04 Mh: 32.05 Mh: ****** Mh: **** 33 33.01 Mh: 33.02 Mh: 33.03 Mh: 33.04	3,600.00 Shifts: 40 Grout Shifts: Rebar Shifts: Spoils Disposal Shifts: Concrete Pump Shifts: *****Biditem/Category 3,600.00 Mh/Un: Excavation 400.00 Shifts: 5 Excavation (Last 8') 173.34 Shifts: 2 Clean Sides 120.00 Shifts: 1 Tremie Pour	Mh/Un: 750.00 Mh/Un: 119,400.00 Mh/Un: 750.00 Mh/Un: 750.00 Mh/Un: 32 ****** 3,600.0000 Mass Excavati 740.00 0.0 Mh/Un: 110.002 Mh/Un: 5.005 Mh/Un: 125.00	30.0000 CY LBS CY CY CY 0.5405 CY 1.5758 EA 24.0000 CY 2.0800	Permie F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50	3.0000 10.00 10.00 10.00 10.00 10.00 48.0000 10.00 50.7849 10.00 3.3333 10.00 38.4615	1,336.33 1,336.33 160,359 160,359.42 Takeoff: 17,674 23.88 7,659 69.63 5,302 1,060.44 11,488	155.46 57,636 0.48 174,232 174,231.59 1.00	8,454 8,453.54	3,459.67 10,721 14.30 425,881 425,881.40 Bid: 22,775 30.78 9,871 89.73 6,832 1,366.50 14,804	35,910 35,910.00	4,796.00 116,595 155.46 93,546 0.78 8,454 11.27 10,721 14.30 804,836 804,835.95 00 LS 40,449 54.66 17,530 159.36 12,135 2,426.94 43,144
Mh: 32.02 Mh: 32.03 Mh: 32.04 Mh: 32.05 Mh: ****** Mh: **** 33 33.01 Mh: 33.02 Mh: 33.03 Mh: 33.04 Mh:	3,600.00 Shifts: 40 Grout Shifts: Rebar Shifts: Spoils Disposal Shifts: Concrete Pump Shifts: *****Biditem/Category 3,600.00 Mh/Un: Excavation 400.00 Shifts: 5 Excavation (Last 8') 173.34 Shifts: 2 Clean Sides 120.00 Shifts: 1 Tremie Pour 260.00 Shifts: 3	Mh/Un: 750.00 Mh/Un: 119,400.00 Mh/Un: 750.00 Mh/Un: 750.00 Mh/Un: 32 ****** 3,600.0000 Mass Excavati 740.00 .0 Mh/Un: 110.00 .2 Mh/Un: 5.00 .5 Mh/Un: 125.00 .3 Mh/Un:	30.0000 CY LBS CY CY CY 0.5405 CY 1.5758 EA 24.0000 CY 2.0800	Pemie F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh:	3.0000 10.00 10.00 10.00 10.00 10.00 48.0000 10.00 50.7849 10.00 3.3333 10.00 38.4615	1,336.33 1,336.33 160,359 160,359.42 Takeoff: 17,674 23.88 7,659 69.63 5,302 1,060.44 11,488	155.46 57,636 0.48 174,232 174,231.59 1.00 16,853 134.82	8,454 8,453.54	3,459.67 10,721 14.30 425,881 425,881.40 Bid: 22,775 30.78 9,871 89.73 6,832 1,366.50 14,804	35,910 35,910.00	4,796.00 116,595 155.46 93,546 0.78 8,454 11.27 10,721 14.30 804,836 804,835.95 00 LS 40,449 54.66 17,530 159.36 12,135 2,426.94 43,144 345.15
Mh: 32.02 Mh: 32.03 Mh: 32.04 Mh: 32.05 Mh: **** Mh: *** 33.01 Mh: 33.02 Mh: 33.03 Mh: 33.04 Mh: 33.05	3,600.00 Shifts: 40 Grout Shifts: Rebar Shifts: Spoils Disposal Shifts: Concrete Pump Shifts: *****Biditem/Category 3,600.00 Mh/Un: Excavation 400.00 Shifts: 5 Excavation (Last 8') 173.34 Shifts: 2 Clean Sides 120.00 Shifts: 1 Tremie Pour 260.00 Shifts: 3 Tremie Rebar	Mh/Un: 750.00 Mh/Un: 119,400.00 Mh/Un: 750.00 Mh/Un: 750.00 Mh/Un: 32 ****** 3,600.0000 Mass Excavati 740.00 .0 Mh/Un: 110.00 .2 Mh/Un: 5.00 .5 Mh/Un: 125.00 .3 Mh/Un:	30.0000 CY LBS CY CY ***** On and T CY 0.5403 CY 1.5758 EA 24.0000 CY 2.0800 LBS	Pemie F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 5 Un/Sh: 1 F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50	3.0000 10.00 10.00 10.00 10.00 10.00 48.0000 10.00 50.7849 10.00 3.3333 10.00 38.4615 10.00	1,336.33 1,336.33 160,359 160,359.42 Takeoff: 17,674 23.88 7,659 69.63 5,302 1,060.44 11,488	155.46 57,636 0.48 174,232 174,231.59 1.00 16,853 134.82 5,337	8,454 8,453.54	3,459.67 10,721 14.30 425,881 425,881.40 Bid: 22,775 30.78 9,871 89.73 6,832 1,366.50 14,804	35,910 35,910.00 1.	4,796.00 116,595 155.46 93,546 0.78 8,454 11.27 10,721 14.30 804,836 804,835.95 00 LS 40,449 54.66 17,530 159.36 12,135 2,426.94 43,144 345.15 8,329
Mh: 32.02 Mh: 32.03 Mh: 32.04 Mh: 32.05 Mh: ****** Mh: **** *** *** *** *	3,600.00 Shifts: 40 Grout Shifts: Rebar Shifts: Spoils Disposal Shifts: Concrete Pump Shifts: *****Biditem/Category 3,600.00 Mh/Un: Excavation 400.00 Shifts: 5 Excavation (Last 8') 173.34 Shifts: 2 Clean Sides 120.00 Shifts: 1 Tremie Pour 260.00 Shifts: 3 Tremie Rebar Shifts: Dewater and Seal	Mh/Un: 750.00 Mh/Un: 119,400.00 Mh/Un: 750.00 Mh/Un: 750.00 Mh/Un: 750.00 Mh/Un: 32 ****** 3,600.0000 Mass Excavati 740.00 .0 Mh/Un: 110.00 .2 Mh/Un: 5.00 .5 Mh/Un: 125.00 .3 Mh/Un: 10,000.00 Mh/Un:	30.0000 CY LBS CY CY CY 0.5405 CY 1.5758 EA 24.0000 CY 2.0800 LBS	remie F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 5 Un/Sh: 1 F6319A 50 0 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh:	3.0000 10.00 10.00 10.00 10.00 10.00 48.0000 10.00 50.7849 10.00 3.3333 10.00 38.4615 10.00	1,336.33 1,336.33 160,359 160,359.42 Takeoff: 17,674 23.88 7,659 69.63 5,302 1,060.44 11,488 91.90	155.46 57,636 0.48 174,232 174,231.59 1.00 16,853 134.82 5,337	8,454 8,453.54	3,459.67 10,721 14.30 425,881 425,881.40 Bid: 22,775 30.78 9,871 89.73 6,832 1,366.50 14,804 118.43	35,910 35,910.00 1.	4,796.00 116,595 155.46 93,546 0.78 8,454 11.27 10,721 14.30 804,836 804,835.95 00 LS 40,449 54.66 17,530 159.36 12,135 2,426.94 43,144 345.15 8,329 0.83
Mh: 32.02 Mh: 32.03 Mh: 32.04 Mh: 32.05 Mh: ******* Mh: **** *** *** ***	3,600.00 Shifts: 40 Grout Shifts: Rebar Shifts: Spoils Disposal Shifts: Concrete Pump Shifts: *****Biditem/Category 3,600.00 Mh/Un: Excavation 400.00 Shifts: 5 Excavation (Last 8') 173.34 Shifts: 2 Clean Sides 120.00 Shifts: 1 Tremie Pour 260.00 Shifts: 3 Tremie Rebar Shifts: Dewater and Seal	Mh/Un: 750.00 Mh/Un: 119,400.00 Mh/Un: 750.00 Mh/Un: 750.00 Mh/Un: 750.00 Mh/Un: 32 ****** 3,600.0000 Mass Excavati 740.00 .0 Mh/Un: 110.00 .2 Mh/Un: 5.00 .5 Mh/Un: 125.00 .3 Mh/Un: 10,000.00 Mh/Un: 5.00 .5 Mh/Un:	30.0000 CY LBS CY CY CY 0.5405 CY 1.5758 EA 24.0000 CY 2.0800 LBS EA 40.0000	Pemie F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50	3.0000 10.00 10.00 10.00 10.00 10.00 48.0000 10.00 50.7849 10.00 3.3333 10.00 38.4615 10.00 2.0000	1,336.33 1,336.33 160,359 160,359.42 Takeoff: 17,674 23.88 7,659 69.63 5,302 1,060.44 11,488 91.90 8,837	155.46 57,636 0.48 174,232 174,231.59 1.00 16,853 134.82 5,337	8,454 8,453.54	3,459.67 10,721 14.30 425,881 425,881.40 Bid: 22,775 30.78 9,871 89.73 6,832 1,366.50 14,804 118.43	35,910 35,910.00 1.	4,796.00 116,595 155.46 93,546 0.78 8,454 11.27 10,721 14.30 804,836 804,835.95 00 LS 40,449 54.66 17,530 159.36 12,135 2,426.94 43,144 345.15 8,329 0.83 20,224
Mh: 32.02 Mh: 32.03 Mh: 32.04 Mh: 32.05 Mh: ******* Mh: **** 33.01 Mh: 33.02 Mh: 33.03 Mh: 33.04 Mh: 33.05 Mh: 33.06 Mh:	3,600.00 Shifts: 40 Grout Shifts: Rebar Shifts: Spoils Disposal Shifts: Concrete Pump Shifts: *****Biditem/Category 3,600.00 Mh/Un: Excavation 400.00 Shifts: 5 Excavation (Last 8') 173.34 Shifts: 2 Clean Sides 120.00 Shifts: 1 Tremie Pour 260.00 Shifts: 3 Tremie Rebar Shifts: Dewater and Seal 200.00 Shifts: 2 Leveling Course	Mh/Un: 750.00 Mh/Un: 119,400.00 Mh/Un: 750.00 Mh/Un: 750.00 Mh/Un: 750.00 Mh/Un: 32 ****** 3,600.0000 Mass Excavati 740.00 .0 Mh/Un: 110.00 .2 Mh/Un: 5.00 .3 Mh/Un: 10,000.00 Mh/Un: 5.00 .3 Mh/Un: 5.00 .5 Mh/Un:	30.0000 CY LBS CY CY CY 0.5405 CY 1.5758 EA 24.0000 CY LBS	remie F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50	3.0000 10.00 10.00 10.00 10.00 10.00 48.0000 10.00 50.7849 10.00 3.3333 10.00 38.4615 10.00 2.0000	1,336.33 1,336.33 160,359 160,359.42 Takeoff: 17,674 23.88 7,659 69.63 5,302 1,060.44 11,488 91.90 8,837 1,767.40	155.46 57,636 0.48 174,232 174,231.59 1.00 16,853 134.82 5,337 0.53	8,454 8,453.54	3,459.67 10,721 14.30 425,881 425,881.40 Bid: 22,775 30.78 9,871 89.73 6,832 1,366.50 14,804 118.43	35,910 35,910.00 1.	4,796.00 116,595 155.46 93,546 0.78 8,454 11.27 10,721 14.30 804,836 804,835.95 00 LS 40,449 54.66 17,530 159.36 12,135 2,426.94 43,144 345.15 8,329 0.83 20,224 4,044.90
Mh: 32.02 Mh: 32.03 Mh: 32.04 Mh: 32.05 Mh: ******* Mh: **** *** *** ***	3,600.00 Shifts: 40 Grout Shifts: Rebar Shifts: Spoils Disposal Shifts: Concrete Pump Shifts: *****Biditem/Category 3,600.00 Mh/Un: Excavation 400.00 Shifts: 5 Excavation (Last 8') 173.34 Shifts: 2 Clean Sides 120.00 Shifts: 1 Tremie Pour 260.00 Shifts: 3 Tremie Rebar Shifts: Dewater and Seal 200.00 Shifts: 2 Leveling Course 198.33 Shifts: 2	Mh/Un: 750.00 Mh/Un: 119,400.00 Mh/Un: 750.00 Mh/Un: 750.00 Mh/Un: 750.00 Mh/Un: 32 ****** 3,600.0000 Mass Excavati 740.00 .0 Mh/Un: 110.00 .2 Mh/Un: 5.00 .3 Mh/Un: 10,000.00 Mh/Un: 5.00 .3 Mh/Un: 5.00 .3 Mh/Un: 5.00 .4 Mh/Un: 5.00	30.0000 CY LBS CY CY CY 0.5405 CY 1.5758 EA 24.0000 CY 2.0800 LBS EA 40.0000 CY 3.9660	Permie F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50	3.0000 10.00 10.00 10.00 10.00 10.00 48.0000 10.00 3.3333 10.00 38.4615 10.00 10.00 2.0000 17.6491	1,336.33 1,336.33 160,359 160,359.42 Takeoff: 17,674 23.88 7,659 69.63 5,302 1,060.44 11,488 91.90 8,837 1,767.40 9,449	155.46 57,636 0.48 174,232 174,231.59 1.00 16,853 134.82 5,337 0.53	8,454 8,453.54	3,459.67 10,721 14.30 425,881 425,881.40 Bid: 22,775 30.78 9,871 89.73 6,832 1,366.50 14,804 118.43 11,387 2,277.49 12,904	35,910 35,910.00 1.	4,796.00 116,595 155.46 93,546 0.78 8,454 11.27 10,721 14.30 804,836 804,835.95 00 LS 40,449 54.66 17,530 159.36 12,135 2,426.94 43,144 345.15 8,329 0.83 20,224 4,044.90 29,054 581.08
Mh: 32.02 Mh: 32.03 Mh: 32.04 Mh: 32.05 Mh: **** *** *** Mh: 33.01 Mh: 33.02 Mh: 33.03 Mh: 33.04 Mh: 33.05 Mh: 33.06 Mh: 33.07 Mh: 33.08	3,600.00 Shifts: 40 Grout Shifts: Rebar Shifts: Spoils Disposal Shifts: Concrete Pump Shifts: *****Biditem/Category 3,600.00 Mh/Un: Excavation 400.00 Shifts: 5 Excavation (Last 8') 173.34 Shifts: 2 Clean Sides 120.00 Shifts: 1 Tremie Pour 260.00 Shifts: 3 Tremie Pour 260.00 Shifts: 3 Tremie Rebar Shifts: Dewater and Seal 200.00 Shifts: 2 Leveling Course 198.33 Shifts: 2 Trucking	Mh/Un: 750.00 Mh/Un: 119,400.00 Mh/Un: 750.00 Mh/Un: 750.00 Mh/Un: 750.00 Mh/Un: 32 ******* 3,600.0000 Mass Excavati 740.00 .0 Mh/Un: 110.00 .2 Mh/Un: 5.00 .3 Mh/Un: 10,000.00 Mh/Un: 5.00 .3 Mh/Un: 5.00 .4 Mh/Un: 5.00 .5 Mh/Un: 5.00	30.0000 CY LBS CY CY CY 0.5405 CY 1.5758 EA 24.0000 CY 2.0800 LBS EA 40.0000 CY 3.9660	Permie F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50	3.0000 10.00 10.00 10.00 10.00 10.00 48.0000 10.00 3.3333 10.00 38.4615 10.00 10.00 2.0000 17.6491	1,336.33 1,336.33 160,359 160,359.42 Takeoff: 17,674 23.88 7,659 69.63 5,302 1,060.44 11,488 91.90 8,837 1,767.40 9,449	155.46 57,636 0.48 174,232 174,231.59 1.00 16,853 134.82 5,337 0.53	8,454 8,453.54 LS	3,459.67 10,721 14.30 425,881 425,881.40 Bid: 22,775 30.78 9,871 89.73 6,832 1,366.50 14,804 118.43 11,387 2,277.49 12,904	35,910 35,910.00 1.	4,796.00 116,595 155.46 93,546 0.78 8,454 11.27 10,721 14.30 804,836 804,835.95 000 LS 40,449 54.66 17,530 159.36 12,135 2,426.94 43,144 345.15 8,329 0.83 20,224 4,044.90 29,054 581.08 9,582
Mh: 32.02 Mh: 32.03 Mh: 32.04 Mh: 32.05 Mh: **** 33 33.01 Mh: 33.02 Mh: 33.03 Mh: 33.04 Mh: 33.05 Mh: 33.06 Mh: 33.07 Mh: 33.08 Mh:	3,600.00 Shifts: 40 Grout Shifts: Rebar Shifts: Spoils Disposal Shifts: Concrete Pump Shifts: *****Biditem/Category 3,600.00 Mh/Un: Excavation 400.00 Shifts: 5 Excavation (Last 8') 173.34 Shifts: 2 Clean Sides 120.00 Shifts: 1 Tremie Pour 260.00 Shifts: 3 Tremie Rebar Shifts: Dewater and Seal 200.00 Shifts: 2 Leveling Course 198.33 Shifts: 2 Trucking Shifts:	Mh/Un: 750.00 Mh/Un: 119,400.00 Mh/Un: 750.00 Mh/Un: 750.00 Mh/Un: 750.00 Mh/Un: 32 ******* 3,600.0000 Mass Excavati 740.00 .0 Mh/Un: 110.00 .2 Mh/Un: 5.00 .3 Mh/Un: 10,000.00 Mh/Un: 5.00 .3 Mh/Un: 5.00 .4 Mh/Un: 5.00 .5 Mh/Un: 5.00 Mh/Un: 5.00 Mh/Un: 5.00 Mh/Un: 5.00 Mh/Un: 5.00 Mh/Un:	30.0000 CY LBS CY CY CY 0.5405 CY 1.5758 EA 24.0000 CY 2.0800 LBS EA 40.0000 CY 3.9666 LS	Permie F6319A 50 Un/Sh:	3.0000 10.00 10.00 10.00 10.00 10.00 48.0000 10.00 3.3333 10.00 38.4615 10.00 10.00 10.00 17.6491 10.00	1,336.33 1,336.33 160,359 160,359.42 Takeoff: 17,674 23.88 7,659 69.63 5,302 1,060.44 11,488 91.90 8,837 1,767.40 9,449	155.46 57,636 0.48 174,232 174,231.59 1.00 16,853 134.82 5,337 0.53	8,454 8,453.54 LS	3,459.67 10,721 14.30 425,881 425,881.40 Bid: 22,775 30.78 9,871 89.73 6,832 1,366.50 14,804 118.43 11,387 2,277.49 12,904 258.09	35,910 35,910.00 1.	4,796.00 116,595 155.46 93,546 0.78 8,454 11.27 10,721 14.30 804,836 804,835.95 000 LS 40,449 54.66 17,530 159.36 12,135 2,426.94 43,144 345.15 8,329 0.83 20,224 4,044.90 29,054 581.08 9,582 1,916.49
Mh: 32.02 Mh: 32.03 Mh: 32.04 Mh: 32.05 Mh: **** *** *** Mh: 33.01 Mh: 33.02 Mh: 33.03 Mh: 33.04 Mh: 33.05 Mh: 33.06 Mh: 33.07 Mh: 33.08	3,600.00 Shifts: 40 Grout Shifts: Rebar Shifts: Spoils Disposal Shifts: Concrete Pump Shifts: *****Biditem/Category 3,600.00 Mh/Un: Excavation 400.00 Shifts: 5 Excavation (Last 8') 173.34 Shifts: 2 Clean Sides 120.00 Shifts: 1 Tremie Pour 260.00 Shifts: 3 Tremie Pour 260.00 Shifts: 3 Tremie Rebar Shifts: Dewater and Seal 200.00 Shifts: 2 Leveling Course 198.33 Shifts: 2 Trucking	Mh/Un: 750.00 Mh/Un: 119,400.00 Mh/Un: 750.00 Mh/Un: 750.00 Mh/Un: 750.00 Mh/Un: 32 ******* 3,600.0000 Mass Excavati 740.00 .0 Mh/Un: 110.00 .2 Mh/Un: 5.00 .3 Mh/Un: 10,000.00 Mh/Un: 5.00 .3 Mh/Un: 5.00 .4 Mh/Un: 5.00 .5 Mh/Un: 5.00 Mh/Un: 5.00 Mh/Un: 5.00 Mh/Un: 5.00 Mh/Un: 5.00 Mh/Un:	30.0000 CY LBS CY CY CY 0.5405 CY 1.5758 EA 24.0000 CY 2.0800 LBS EA 40.0000 CY 3.9666 LS	Permie F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50	3.0000 10.00 10.00 10.00 10.00 10.00 48.0000 10.00 3.3333 10.00 38.4615 10.00 10.00 10.00 17.6491 10.00	1,336.33 1,336.33 160,359 160,359.42 Takeoff: 17,674 23.88 7,659 69.63 5,302 1,060.44 11,488 91.90 8,837 1,767.40 9,449	155.46 57,636 0.48 174,232 174,231.59 1.00 16,853 134.82 5,337 0.53	8,454 8,453.54 LS	3,459.67 10,721 14.30 425,881 425,881.40 Bid: 22,775 30.78 9,871 89.73 6,832 1,366.50 14,804 118.43 11,387 2,277.49 12,904	35,910 35,910.00 1.	4,796.00 116,595 155.46 93,546 0.78 8,454 11.27 10,721 14.30 804,836 804,835.95 000 LS 40,449 54.66 17,530 159.36 12,135 2,426.94 43,144 345.15 8,329 0.83 20,224 4,044.90 29,054 581.08 9,582



Biditem Activity	Description		Quantity	Unit	Calend WC	ar Hrs/Shift	Labor	Perm Material	Constr Matl/Exp	Equip- Ment	Sub- Contract	Total
33.10 Mh:	Poly Tube Injection Shifts:	/ Seal	5.00 Mh/Un:	EA	F6319A : Un/Sh:	50 10.00		8,935 1,786.90				8,935 1,786.90
	*****Biditem/Category 1,351.67 Mh/Un:	33 1,35	***** 51.6700	****			60,409 60,409.32	37,825 37,824.51	9,582 9,582.46	81,790 81,789.89		192,599 192,598.68
*** 51		Т	emplate				Takeoff:	1.00	IS	Bid:	1	.00 LS
51.01	Excavate and Haul	1,	170.00	CY	F6319A :		6,670	1.00	LS	9,110	835	16,615
Mh:	140.00 Shifts:	2.0	Mh/Un:		Un/Sh:	85.0000	39.23			53.59	4.91	97.73
51.02	Concrete Template	(5% Wa	ste 115.00	CY	F6319A	50 10.00	7,226	16,082		9,871		33,179
Mh:	151.67 Shifts:	2.2	Mh/Un:		Un/Sh:	53.0933	62.83	139.84		85.83		288.51
51.03	Forms - Sonotube		120.00		F6319A		40,019		7,790	54,660		102,469
Mh:	840.00 Shifts:	12.0	Mh/Un:		Un/Sh:	10.0000	333.49		64.91	455.50		853.91
51.04	Forms - Exterior		5.00			50 10.00	6,670		6,433	9,110		22,213
Mh:	140.00 Shifts:	2.0	Mh/Un:		Un/Sh:	2.5000	1,333.98		1,286.57	1,821.99		4,442.54
51.05 Mh:	Blocking 35.00 Shifts:	0.5	5.00 Mh/Un:	7.0000	F6319A :	50 10.00 10.0000	1,667 333.50			2,278 455.50		3,945 789.00
51.06	Survey	0.3		7.0000 EA	F6319A		333.30		9,750	433.30		9,750
Mh:	Shifts:		Mh/Un:	LA	Un/Sh:	10.00			1,950.00			1,950.00
51.07	Pump Concrete		5.00	EA	F6319A 3	50 10.00			1,550.00	3,574		3,574
Mh:	Shifts:		Mh/Un:	2.1	Un/Sh:	10.00				714.76		714.76
51.08	Haul Old Template	Debris	5.00	EA	F6319A 5	50 10.00	3,335		6,722	4,555		14,612
Mh:	70.00 Shifts:	1.0	Mh/Un:	14.0000		5.0000	666.99		1,344.35	911.00		2,922.34
	*****Biditem/Category 1,376.67 Mh/Un:	51 1,37	***** 76.6700	****			65,588 65,587.54	16,082 16,082.10	30,694 30,694.19	93,157 93,156.62		206,355 206,355.45
*** 52	D'11 1 DI C		rill and PLac		E(2101		Takeoff:	1.00	LS	Bid:	1.	.00 LS
52.01	Drill and Place Grown 4,760.00 Shifts:		120.00 Mh/Un:	39.6667	F6319A 5 Un/Sh:	50 10.00 2.2689	212,031 1,766.92			548,935 4,574.46		760,966 6,341.38
Mh: 52.02	Grout Shifts:	52.9	810.00		F6319A		1,700.92	135,725		4,374.40		135,725
Mh:	Shifts:		Mh/Un:	CI	Un/Sh:	10.00		167.56				167.56
52.03	Rebar		113,400.00	LBS	F6319A 5	50 10.00		60,987			34,190	95,177
Mh:	Shifts:		Mh/Un:	LDS	Un/Sh:	10.00		0.54			0.30	0.84
52.04	Spoils Disposal		750.00	CY	F6319A 3	50 10.00			9,394			9,394
Mh:	Shifts:		Mh/Un:		Un/Sh:				12.53			12.53
52.05	Concrete Pump		810.00	CY	F6319A	50 10.00				10,721		10,721
Mh:	Shifts:		Mh/Un:		Un/Sh:					13.24		13.24
	*****Biditem/Category 4,760.00 Mh/Un:	52 4.76	***** 50.0000	****			212,031 212,030.85	196,712 196,711,90	9,394 9,393.75	559,656 559,656.35		1,011,983 1,011,982,95
17111.	1,700.00	1,70	70.0000				212,030.03	,	,,5,5.75	227,020.22	31,170.10	
*** 53		M	ass Excavati				Takeoff:	1.00	LS	Bid:	1.	.00 LS
53.01	Excavation	4.7	810.00		F6319A		16,437			21,181		37,618
Mh:	372.00 Shifts:	4.7	Mh/Un:		Un/Sh:		20.29			26.15		46.44
53.02 Mh:	Excavation (Last 8') 370.31 Shifts:	4.6	235.00 Mh/Un:		F6319A : Un/Sh:	50 10.00 50.7779	16,362 69.63			21,085 89.72		37,447 159.35
53.03	Clean Sides	4.0	Mn/Un: 5.00			50.7779	6,480			8,349		139.33
Mh:	146.66 Shifts:	1.8	Mh/Un:		Un/Sh:	2.7278	1,296.01			1,669.86		2,965.86
53.04	Tremie Pour	1.0	125.00			50 10.00	8,745	19,363		11,269		39,377
Mh:	197.92 Shifts:	2.5	Mh/Un:		Un/Sh:	50.5459	69.96	154.90		90.15		315.01
53.05	Tremie Rebar		10,000.00		F6319A			5,393			3,024	8,417
Mh:	Shifts:		Mh/Un:		Un/Sh:			0.54			0.30	0.84
53.06	Dewater and Seal		5.00	EA	F6319A	50 10.00	7,659			9,871		17,530
Mh:	173.34 Shifts:	2.2	Mh/Un:		Un/Sh:	2.3084	1,531.84			1,974.13		3,505.97
53.07	Leveling Course		35.00			50 10.00	5,558	4,691		7,593		17,842
Mh:	116.67 Shifts:	1.7	Mh/Un:		Un/Sh:	21.0084	158.81	134.02		216.95		509.78
53.08	Trucking		5.00	LS	F6319A	50 10.00			9,582			9,582
Mh:	Shifts:	1.~	Mh/Un:	. I C	Un/Sh:	50 1000			1,916.49	2.21		1,916.49
53.09	Tremie Pump and L	evel Co		LS	F6319A :	50 10.00				3,216		3,216
Mh: 53.10	Shifts:	/ Cas1	Mh/Un: 5.00	IC	Un/Sh:	50 10.00				643.28	8,350	643.28 8,350
Mh:	Poly Tube Injection Shifts:	/ Beal	Mh/Un:	Lo	F6319A 3	50 10.00					,	1,670.00
17111.	Silits.		17111/ UII.		OII/BII.						1,070.00	1,070.00



Math	Biditem Activity	Description	Quantity Unit	Calendar WC Hrs/Shift	Labor	Perm Material	Constr Matl/Exp	Equip- Ment	Sub- Contract Total
Math		- ·	,		,	,		,	
Math	*** 54		Mechanical Work		Takeoff:	1.00	LS	Rid:	1 00 LS
Math Math				F6319A 50 10.00			25		64,214
Min	Mh:					,		,	
Mile 146-66 Shifts 29	54.05	25 HP Flygt Pump	5.00 EA	F6319A 50 10.00				29,250	751,243
Mile 146.66 Shirls 29 Mir 157.01 29 31.21 31.28 36.59 36									
Mile Mile		e			,	,			, ,
Miller Miller									
Mile									
Math									,
		-							
Mem 4 0.00 Shifts 0.8 Mill Use 1.000 Use Use Use Use Use Use Use Use Use Use									
Mail	Mh:	40.00 Shifts: 0.8	Mh/Un: 8.000	00 Un/Sh: 6.2500	389.12	2,227.95		468.00	3,085.07
Mile	54.11		500.00 LF	F6319A 50 10.00				1,462	375,000 386,774
Mart Mart				,					
Mile Second Sec									
Mail Mail									
Mill Mill									· · · · · · · · · · · · · · · · · · ·
Mile Mile									
Mile Mile			* * * *						
Solid Control Contro									
Mile GOOD	Mh:	250.00 Shifts: 5.0	Mh/Un: 50.000	00 Un/Sh: 1.0000	2,432.02	9,630.00		2,924.97	14,986.99
Solicity Platform Solicity	55.01	Concrete Cover (15' Dia.)	5.00 EA	F6319A 50 10.00	2,918	56,175		3,510	62,603
Mile Solor Shifts Solor Shifts Solor So									
Stock Sto		` '							, , , , , , , , , , , , , , , , , , , ,
Mile Shifts: Mile Shifts:								351.00	
St. 0.4 Grout Seal Coatings S.0.0 LS F6319A 50 10.00 10.944 26.750 13,162 50,856 Mh 225.00 Start-up Commissioning S.0.0 EA F6319A 50 10.00 2.432 1.605 2.925 6.962 Mh 50.00 Shifts: 1.0 Mh/Un: 10.000 Un/Sh: 5.0000 48.640 321.00 584.99 1.392.40 55.06 Warranty Allowance S.0.0 EA F6319A 50 10.00 4.864 40.700 5.855 2.925 6.962 Mh 1.00 Shifts: 2.0 Mh/Un: 20.0000 Un/Sh: 2.5000 972.81 2.140.00 1.169.99 4.282.80 55.07 24" Well Credit -1.00 LS F6319A 50 10.00 972.81 2.140.00 1.169.99 4.282.80 55.07 24" Well Credit -1.00 LS F6319A 50 10.00 972.81 2.140.00 1.169.99 4.282.80 201.250 201.250 Mh 2.061.6600 Mh/Un: 2.061.6600 Wh/Un: 2.061.6600 99.091.89 1.007.040 114.755 251.250.00 1.472.137 Mh; 2.061.6600 Mh/Un: 2.061.6600 EA F6319A 50 10.00 99.091.89 1.007.040.01 114.755 251.250.00 1.472.137 Mh; 2.227.50 Shifts: Mh/Un: 2.061.6600 EA F6319A 50 10.00 EA F6319A 50 10.00 EA EA EA EA EA EA EA		1 6							, , , , , , , , , , , , , , , , , , , ,
Mile 225.00 Shifts: 4.5 Mh/Un: 45.000 Un/Sh: 1.1111 2.188.82 5.350.00 2.632.47 10.171.30 55.05					10.944	26.750		13 162	
Solution Commission Solution Commission Solution Commission Solution Commission Solution Commission Solution Commission Solution Commission Solution Commission Commis		- E				,			•
Mh:									,
Mh: 100.00 Shifts: 2.0 Mh/Un: ≥0.0000 Un/Sh: ≥.5000 972.81 2,140.00 1,169.99 4,282.80 55.07 24" Well Credit 1.10 LS F6319A 50 10.00 1.00.00 2-201,250 201,250.00	Mh:	50.00 Shifts: 1.0	Mh/Un: 10.000	00 Un/Sh: 5.0000	486.40	321.00		584.99	1,392.40
Shifts Shifts Shifts Mh/Un Un/Sh Shifts Shifts Mh/Un Un/Sh Shifts Shif	55.06	Warranty Allowance	5.00 EA	F6319A 50 10.00	4,864	10,700		5,850	21,414
Mh: Shifts: Mh/Un: Un/Sh: 201,250.00 201,251.20						2,140.00		1,169.99	

Mh: 2,061.66 Mh/Un: 2,061.6600 99,091.89 1,007,040.16 114,755.39 251,250.00 1,472,137.44 **** 55 Electrical / I&C Takeoff: 1.00 LS Bid: 1,000 LS 55.1 Control Pannels w/ Floats 5.00 EA F6319A 50 10.00 10.00 LS 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 170,000 238,847 Mh/Un: 2,227.50 Mh/Un: 1.3500 Un/Sh: 44.4444 62.99 15.95 65.81 144.76 44.76 44.4444 62.99 15.95 65.81 170,000 40.84 47.00 44.84 62.99 15.95 65.81 170,000 40.84 48.84 88.95 170,000 40.884 48.84 48.89 170,000 40.884 48.84 48.80 86.61 1.00 LS 86.61 1.00 LS 86.61				Un/Sh:					,
**** 55 Electrical / I&C Takeoff: 1.00 LS Bid: 1.00 LS 55.1 Control Pannels w/ Floats 5.00 EA F6319A 50 10.00 170,000 170,000 170,000 170,000 170,000 170,000 34,000.00 30,000.00 30,000.00 30,000.00 30,000.00 30,000.00 30,000.00 30,000.00 30,000.00 30,000.00 </td <td></td> <td></td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			•						
Solid Control Pannels w Floats Solid East Floats Solid East Floats Solid East Floats Solid East Floats Solid East Floats Solid East E		, , , , , , , , , , , , , , , , , , ,						114,755.39	
Mh: Shifts: Mh/Un: Un/Sh: 34,000.00 34,000.00 55.2 Ductbank - Civil 1,650.00 LF F6319A 50 10.00 103,936 26,322 108,590 238,847 Mh: 2,227.50 Shifts: 37.1 Mh/Un: 1.3500 Un/Sh: 44.4444 62.99 15.95 65.81 144.76 ***********************************	33					1.00	LS	Bid:	
55.2 Ductbank - Civil 1,650.00 LF F6319A 50 10.00 103,936 26,322 108,590 238,847 Mh: 2,227.50 Shifts: 37.1 Mh/Un: 1.3500 Un/Sh: 44.4444 62.99 15.95 65.81 144.76 ***********************************									
Mh: 2,227.50 Shifts: 37.1 Mh/Un: 1.3500 Un/Sh: 44.4444 62.99 15.95 65.81 144.76 ***********************************					103 036	26 322		108 500	
Mh: 2,227.50 Mh/Un: 2,227.5000 103,935.71 26,322.00 108,589.52 170,000.00 408,847.23 *** 71 Template Takeoff: 1.00 LS Bid: 1.00 LS 71.01 Excavate and Haul 98.00 CY F6319A 50 10.00 4,002 5,466 9,468 Mh: 84.00 Shifts: 1.2 Mh/Un: 0.8571 Un/Sh: 81.6667 40.84 55.78 96.61 71.02 Concrete Template (5% Waste 78.00 CY F6319A 50 10.00 4,669 13,375 6,377 24,421 Mh: 98.00 Shifts: 1.4 Mh/Un: 1.2564 Un/Sh: 55.7143 59.86 171.47 81.76 313.09 71.03 Forms - Sonotube 64.00 EA F6319A 50 10.00 21,344 4,109 29,152 54,604 Mh: 448.00 Shifts: 6.4 Mh/Un: 7.0000 Un/Sh: 10.000 333.50 64.20 455.50 853.19 71.04 Forms - Exterior 2.00 EA F6319A 50 10.00 2,668 5,350 3,644 11,662 Mh: 56.00 Shifts:						-)-		,	
Mh: 2,227.50 Mh/Un: 2,227.5000 103,935.71 26,322.00 108,589.52 170,000.00 408,847.23 *** 71 Template Takeoff: 1.00 LS Bid: 1.00 LS 71.01 Excavate and Haul 98.00 CY F6319A 50 10.00 4,002 5,466 9,468 Mh: 84.00 Shifts: 1.2 Mh/Un: 0.8571 Un/Sh: 81.6667 40.84 55.78 96.61 71.02 Concrete Template (5% Waste 78.00 CY F6319A 50 10.00 4,669 13,375 6,377 24,421 Mh: 98.00 Shifts: 1.4 Mh/Un: 1.2564 Un/Sh: 55.7143 59.86 171.47 81.76 313.09 71.03 Forms - Sonotube 64.00 EA F6319A 50 10.00 21,344 4,109 29,152 54,604 Mh: 448.00 Shifts: 6.4 Mh/Un: 7.0000 Un/Sh: 10.000 333.50 64.20 455.50 853.19 71.04 Forms - Exterior 2.00 EA F6319A 50 10.00 2,668 5,350 3,644 11,662 Mh: 56.00 Shifts:	****	*****Riditam/Catagory	******		102.026	26 222		100 500	170 000 400 047
71.01 Excavate and Haul 98.00 CY F6319A 50 10.00 4,002 5,466 9,468 Mh: 84.00 Shifts: 1.2 Mh/Un: 0.8571 Un/Sh: 81.6667 40.84 55.78 96.61 71.02 Concrete Template (5% Waste 78.00 CY F6319A 50 10.00 4,669 13,375 6,377 24,421 Mh: 98.00 Shifts: 1.4 Mh/Un: 1.2564 Un/Sh: 55.7143 59.86 171.47 81.76 313.09 71.03 Forms - Sonotube 64.00 EA F6319A 50 10.00 21,344 4,109 29,152 54,604 Mh: 448.00 Shifts: 6.4 Mh/Un: 7.0000 Un/Sh: 10.000 333.50 64.20 455.50 853.19 71.04 Forms - Exterior 2.00 EA F6319A 50 10.00 2,668 5,350 3,644 11,662 Mh: 56.00 Shifts: 0.8 Mh/Un:			,						
Mh: 84.00 Shifts: 1.2 Mh/Un: 0.8571 Un/Sh: 81.6667 40.84 55.78 96.61 71.02 Concrete Template (5% Waste 78.00 CY F6319A 50 10.00 4,669 13,375 6,377 24,421 Mh: 98.00 Shifts: 1.4 Mh/Un: 1.2564 Un/Sh: 55.7143 59.86 171.47 81.76 313.09 71.03 Forms - Sonotube 64.00 EA F6319A 50 10.00 21,344 4,109 29,152 54,604 Mh: 448.00 Shifts: 6.4 Mh/Un: 7.0000 Un/Sh: 10.0000 333.50 64.20 455.50 853.19 71.04 Forms - Exterior 2.00 EA F6319A 50 10.00 2,668 5,350 3,644 11,662 Mh: 56.00 Shifts: 0.8 Mh/Un: 28.0000 Un/Sh: 2.5000 1,333.98 2,675.00 1,822.00 5,830.97 71.05 Blocking	/ 1		•	T/010 1 - 12 - 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1			LS		
71.02 Concrete Template (5% Waste 78.00 CY F6319A 50 10.00 4,669 13,375 6,377 24,421 Mh: 98.00 Shifts: 1.4 Mh/Un: 1.2564 Un/Sh: 55.7143 59.86 171.47 81.76 313.09 71.03 Forms - Sonotube 64.00 EA F6319A 50 10.00 21,344 4,109 29,152 54,604 Mh: 448.00 Shifts: 6.4 Mh/Un: 7.0000 Un/Sh: 10.000 333.50 64.20 455.50 853.19 71.04 Forms - Exterior 2.00 EA F6319A 50 10.00 2,668 5,350 3,644 11,662 Mh: 56.00 Shifts: 0.8 Mh/Un: 28.0000 Un/Sh: 2.5000 1,333.98 2,675.00 1,822.00 5,830.97 71.05 Blocking 2.00 EA F6319A 50 10.00 2,001 1,070 2,733 5,804									
Mh: 98.00 Shifts: 1.4 Mh/Un: 1.2564 Un/Sh: 55.7143 59.86 171.47 81.76 313.09 71.03 Forms - Sonotube 64.00 EA F6319A 50 10.00 21,344 4,109 29,152 54,604 Mh: 448.00 Shifts: 6.4 Mh/Un: 7.0000 Un/Sh: 10.0000 333.50 64.20 455.50 853.19 71.04 Forms - Exterior 2.00 EA F6319A 50 10.00 2,668 5,350 3,644 11,662 Mh: 56.00 Shifts: 0.8 Mh/Un: 28.0000 Un/Sh: 2.5000 1,333.98 2,675.00 1,822.00 5,830.97 71.05 Blocking 2.00 EA F6319A 50 10.00 2,001 1,070 2,733 5,804									
71.03 Forms - Sonotube 64.00 EA F6319A 50 10.00 21,344 4,109 29,152 54,604 Mh: 448.00 Shifts: 6.4 Mh/Un: 7.0000 Un/Sh: 10.0000 333.50 64.20 455.50 853.19 71.04 Forms - Exterior 2.00 EA F6319A 50 10.00 2,668 5,350 3,644 11,662 Mh: 56.00 Shifts: 0.8 Mh/Un: 28.0000 Un/Sh: 2.5000 1,333.98 2,675.00 1,822.00 5,830.97 71.05 Blocking 2.00 EA F6319A 50 10.00 2,001 1,070 2,733 5,804		• ,							
Mh: 448.00 Shifts: 6.4 Mh/Un: 7.0000 Un/Sh: 10.0000 333.50 64.20 455.50 853.19 71.04 Forms - Exterior 2.00 EA F6319A 50 10.00 2,668 5,350 3,644 11,662 Mh: 56.00 Shifts: 0.8 Mh/Un: 28.0000 Un/Sh: 2.5000 1,333.98 2,675.00 1,822.00 5,830.97 71.05 Blocking 2.00 EA F6319A 50 10.00 2,001 1,070 2,733 5,804							4.109		
71.04 Forms - Exterior 2.00 EA F6319A 50 10.00 2,668 5,350 3,644 11,662 Mh: 56.00 Shifts: 0.8 Mh/Un: 28.0000 Un/Sh: 2.5000 1,333.98 2,675.00 1,822.00 5,830.97 71.05 Blocking 2.00 EA F6319A 50 10.00 2,001 1,070 2,733 5,804									
71.05 Blocking 2.00 EA F6319A 50 10.00 2,001 1,070 2,733 5,804			2.00 EA	F6319A 50 10.00			5,350	3,644	11,662
							2,675.00		
Mb: 42.00 Shifts: 0.6 Mb/Un: 21.0000 Un/Sh: 3.3333 1.000.48 535.00 1.366.50 2.001.08		e							5,804
Fig. 72.00 Sinus. 0.0 Mill Oil. 21.0000 Cir Sii. 3.3333 1,000.40 333.00 1,300.30 2,701.70	Mh:	42.00 Shifts: 0.6	Mh/Un: 21.000	00 Un/Sh: 3.3333	1,000.48	535.00		1,366.50	2,901.98



						Activity	UIII	rrices	ummar y					
Biditem Activity	Description			Quantity	Unit	Calen WC		rs/Shift	Labor	Perm Material	Constr Matl/Exp	Equip- Ment	Sub- Contract	Total
71.06	Survey			2.00	EA	F6319A	50	10.00			7,800			7,800
Mh:	•	Shifts:		Mh/Un:		Un/Sh:					3,900.00			3,900.00
71.07	Pump Co	ncrete		2.00	EA	F6319A	50	10.00				2,333		2,333
Mh:		Shifts:		Mh/Un:		Un/Sh:						1,166.30		1,166.30
71.08	Haul Old	Template	Debris	2.00	EA	F6319A	50	10.00	1,000		800	1,367		3,167
Mh:	21.00	Shifts:	0.3	Mh/Un:	10.5000	Un/Sh:		6.6667	500.25		400.00	683.25		1,583.50
	*****Biditem/		71		****				35,684	14,445	18,059	51,071		119,259
Mh:	749.00	Mh/Un:	7.	49.0000					35,683.93	14,445.00	18,058.80	51,070.89	1	19,258.62
*** 72			D	rill and Plac	e Grout				Takeoff:	1.00	LS	Bid:	1.	.00 LS
72.01	Drill and	Place Gro	ut	64.00	EA	F6319A	50	10.00	85,391			221,073		306,464
Mh:	1,917.00	Shifts:	21.3	Mh/Un:	29.9531	Un/Sh:		3.0047	1,334.24			3,454.26		4,788.50
72.02	Grout			384.00	CY	F6319A	50	10.00		59,578				59,578
Mh:		Shifts:		Mh/Un:		Un/Sh:				155.15				155.15
72.03	Rebar			67,200.00	LBS	F6319A		10.00		36,046			34,361	70,407
Mh:		Shifts:		Mh/Un:		Un/Sh:				0.54			0.51	1.05
72.04	Spoils Di			300.00	CY	F6319A		10.00			5,062			5,062
Mh:		Shifts:		Mh/Un:	av.	Un/Sh:					16.87			16.87
72.05	Concrete			384.00	CY	F6319A		10.00				4,815		4,815
Mh:		Shifts:		Mh/Un:		Un/Sh:						12.54		12.54
	*****Biditem/	0 ,	72		****				85,391	95,623	5,062	225,888	,	446,326
Mh:	1,917.00	Mh/Un:	1,9	17.0000					85,391.36	95,623.23	5,062.00	225,887.70	34,361.25	446,325.54
*** 73 73.01	Evenyeti		M	lass Excavat			50		Takeoff:	1.00	LS	Bid:	1.	.00 LS
/3.01 Mh:	Excavation 368.00	on Shifts:	4.6	558.00 Mh/Un:		F6319A Un/Sh:		10.00	16,260 29.14			20,953 37.55		37,213 66.69
73.02		on (Last 8"		186.00		F6319A		10.00	13,079			16,853		29,932
Mh:	296.00	Shifts:	3.7	Mh/Un:		Un/Sh:		50.2703	70.32			90.61		160.93
73.03	Clean Sic		3.7	2.00		F6319A		10.00	5,656			7,288		12,944
Mh:	128.00	Shifts:	1.6	Mh/Un:		Un/Sh:		1.2500	2,827.84			3,643.99		6,471.82
73.04	Tremie P		1.0	90.00		F6319A		10.00	5,485	9,619		7,069		22,174
Mh:	124.14	Shifts:	1.6	Mh/Un:		Un/Sh:		58.0271	60.95	106.88		78.55		246.38
73.05	Tremie R			11,000.00		F6319A		10.00		5,865			5,481	11,346
Mh:		Shifts:		Mh/Un:		Un/Sh:				0.53			0.50	1.03
73.06	Dewater	and Seal		2.00	EA	F6319A	50	10.00	3,535			4,555		8,090
Mh:	80.00	Shifts:	1.0	Mh/Un:	40.0000	Un/Sh:	:	2.0000	1,767.41			2,277.49		4,044.90
73.07	Leveling	Course		24.00	CY	F6319A	50	10.00	2,668	3,210		3,644		9,522
Mh:	56.00	Shifts:	0.8	Mh/Un:	2.3333	Un/Sh:	: :	30.0000	111.16	133.75		151.83		396.75
73.08	Trucking			2.00	LS	F6319A	50	10.00			10,547			10,547
Mh:		Shifts:		Mh/Un:		Un/Sh:					5,273.50			5,273.50
73.09	Tremie P	ump and L	evel Co		EA	F6319A		10.00				2,140		2,140
Mh:		Shifts:		Mh/Un:		Un/Sh:						1,070.00		1,070.00
73.10 Mh:	Poly Tub	e Injection Shifts:	/ Seal	2.00 Mh/Un:	EA	F6319A Un/Sh:		10.00		5,350 2,675.00				5,350 2,675.00
						Oli bli.				ŕ				•
	*****Biditem/		73		****				46,683	24,044	10,547	62,503		149,257
Mh:	1,052.14	Mh/Un:	1,0	52.1400					46,682.57	24,043.97	10,547.00	62,502.60	5,481.00	149,257.14
*** 91	F	and III	T	emplate	CV	E(210+	50		Takeoff:	1.00	LS	Bid:	1	.00 LS
91.01 Mb.		and Haul	1.5	123.00 Mh/Un:		F6319A		10.00	5,022 40.83			6,860		11,882
Mh: 91.02	105.42	Shifts: Template	1.5 (5% Wa			Un/Sh: F6319A		81.6733	5,866	16,853		55.77 8,012		96.60
Mh:	123.13	Shifts:	1.8	Mh/Un:		F0319A Un/Sh:		55.7452	59.86	171.96		81.76		313.58
91.03	Forms - S		1.0	64.00		F6319A		10.00	21,344	1/1.70	5,136	29,152		55,632
Mh:	448.00	Shifts:	6.4	Mh/Un:		Un/Sh:		10.000	333.50		80.25	455.50		869.24
91.04	Forms - I		J		EA	F6319A		10.00	2,668		5,350	3,644		11,662
Mh:	56.00	Shifts:	0.8	Mh/Un:		Un/Sh:		2.5000	1,333.98		2,675.00	1,822.00		5,830.97
91.05	Blocking			2.00		F6319A			2,001	1,070	,	2,733		5,804
Mh:	42.00	Shifts:	0.6	Mh/Un:		Un/Sh:		3.3333	1,000.48	535.00		1,366.50		2,901.98
91.06	Survey			2.00		F6319A		10.00			7,800			7,800
Mh:		Shifts:		Mh/Un:		Un/Sh:					3,900.00			3,900.00
91.07	Pump Co	ncrete		2.00	EA	F6319A	50	10.00				3,745		3,745
	•													



Biditem Activity	Description	Quantity	Unit	Calenda WC	ar Hrs/Shift	Labor	Perm Material	Constr Matl/Exp	Equip- Ment	Sub- Contract	Total
Mh:	Shifts:	Mh/Un:		Un/Sh:					1,872.50		1,872.50
91.08	Haul Old Template Debri			F6319A 50		1,000		800	1,367		3,167
Mh:	21.00 Shifts: 0.3	Mh/Un:	10.5000	Un/Sh:	6.6667	500.25		400.00	683.25		1,583.50
****	*****Biditem/Category 9	1 *****	****			37,902	17,923	19,086	55,512		130,423
Mh:		795.5500				37,901.69	17,922.50	19,086.00	55,512.35	1	30,422.54
*** 92		Drill and PLa	as Crout			Takeoff:	1.00	I C	Bid:	1	.00 LS
92.01	Drill and Place Grout	64.00		F6319A 50		83,387	1.00	LS	215,883	1.	299,270
	1,872.00 Shifts: 20.8	Mh/Un:	29.2500		3.0769	1,302.92			3,373.18		4,676.10
92.02	Grout	480.00	CY	F6319A 50	0 10.00		74,472				74,472
Mh: 92.03	Shifts: Rebar	Mh/Un: 67,200.00	IBC	Un/Sh: F6319A 50	0 10.00		155.15 36,046			34,361	155.15 70,407
Mh:	Shifts:	Mh/Un:	LDS	Un/Sh:	0 10.00		0.54			0.51	1.05
92.04	Spoils Disposal	375.00	CY	F6319A 50	0 10.00		0.0.	6,328		0.01	6,328
Mh:	Shifts:	Mh/Un:		Un/Sh:				16.87			16.87
92.05	Concrete Pump	384.00	CY	F6319A 50	0 10.00				6,019		6,019
Mh:	Shifts:	Mh/Un:		Un/Sh:					15.67		15.67
****	*****Biditem/Category 9	2 *****	****			83,387	110,518	6,328	221,902	34,361	456,495
		,872.0000				83,386.89	110,517.63	6,327.50	221,901.95	34,361.25	456,495.22
*** 93		Mass Excavat	ion and Ti	remie		Takeoff:	1.00	LS	Bid:	1.	.00 LS
93.01	Excavation	698.00		F6319A 5		20,340	1.00		26,209	•	46,549
Mh:	460.33 Shifts: 5.8	Mh/Un:			121.3069	29.14			37.55		66.69
93.02	Excavation (Last 8')	232.00		F6319A 50		16,313			21,021		37,334
Mh: 93.03	369.20 Shifts: 4.6 Clean Sides	Mh/Un: 2.00	1.5914	Un/Sh: F6319A 50	50.2709	70.32 4,595			90.61 5,921		160.92 10,517
Mh:	104.00 Shifts: 1.3	Mh/Un:		Un/Sh:	1.5385	2,297.62			2,960.74		5,258.36
93.04	Tremie Pour	90.00	CY	F6319A 50	0 10.00	5,485	12,102		7,069		24,656
Mh:	124.14 Shifts: 1.6	Mh/Un:		Un/Sh:	58.0271	60.95	134.46		78.55		273.96
93.05 Mh:	Tremie Rebar Shifts:	11,000.00 Mh/Un:	LBS	F6319A 50 Un/Sh:	0 10.00		5,865 0.53			5,481 0.50	11,346
93.06	Dewater and Seal		EA	F6319A 50	0 10.00	3,535	0.55		4,555	0.50	8,090
Mh:	80.00 Shifts: 1.0	Mh/Un:	40.0000	Un/Sh:	2.0000	1,767.41			2,277.49		4,044.90
93.07	Leveling Course	24.00		F6319A 50		2,668	3,210		3,644		9,522
Mh: 93.08	56.00 Shifts: 0.8 Trucking	Mh/Un: 2.00		Un/Sh: F6319A 50	30.0000 0 10.00	111.16	133.75	8,437	151.83		396.75 8,437
Mh:	Shifts:	Mh/Un:	LS	Un/Sh:	0 10.00			4,218.50			4,218.50
93.09	Tremie Pump and Level C	Cours 2.00	EA	F6319A 5	0 10.00				2,140		2,140
Mh:	Shifts:	Mh/Un:		Un/Sh:					1,070.00		1,070.00
93.10 Mh:	Poly Tube Injection / Seal Shifts:	1 2.00 Mh/Un:	EA	F6319A 50 Un/Sh:	0 10.00		5,350 2,675.00				5,350 2,675.00
iviii.	Silitis.	WIII/ CII.		Oll/Sii.			2,073.00				2,073.00
****		3 *****	****			52,936	26,526	8,437	70,560		163,941
Mh:	1,193.67 Mh/Un: 1,	,193.6700				52,936.01	26,526.37	8,437.00	70,560.39	5,481.00	163,940.77
*** 94		Mechanical W	ork			Takeoff:	1.00	LS	Bid:	1.	.00 LS
94.01	Baffle Skimmer	2.00		F6319A 50	0 10.00	3,891	53,500		4,680		62,071
Mh:	80.00 Shifts: 1.6	Mh/Un:		Un/Sh:	1.2500		26,750.00		2,339.98		31,035.60
94.05 Mh:	60 HP Flygt Pump 720.00 Shifts: 12.0	2.00 Mh/Un:		F6319A 50 Un/Sh:	0 10.00 0.1667	33,595 16,797.70	699,266		35,100 17,549.82	3	767,961 83,980.72
94.06	18" DIP Discharge	500.00		F6319A 50		8,106	38,988		9,749	,	56,843
Mh:	166.66 Shifts: 3.3	Mh/Un:	0.3333	Un/Sh:	150.0150	16.21	77.98		19.50		113.69
94.08	12" Check Valve	6.00		F6319A 50		9,728	79,608		11,700		101,036
Mh: 94.09	200.00 Shifts: 4.0 NBG Sets / Flanges	Mh/Un: 24.00		Un/Sh: F6319A 50	1.5000 0 10.00	1,621.35 19,456	13,268.00 111,194		1,949.98 23,400		16,839.33 154,050
94.09 Mh:	400.00 Shifts: 8.0	24.00 Mh/Un:		Un/Sh:	3.0000	810.67	-		974.99		6,418.76
94.10	24 x 12 Cross w/Cap	3.00		F6319A 50		7,296	12,840		8,775		28,911
Mh:	150.00 Shifts: 3.0	Mh/Un:		Un/Sh:	1.0000	2,432.02	4,280.00		2,924.97		9,636.99
94.11	24" Well	700.00		F6319A 50		6,080	226,086		7,312		764,478
Mh: 94.12	125.00 Shifts: 2.5 48"x 100" HS 20 Hatch &	Mh/Un: Fra 2.00		Un/Sh: F6319A 5	280.0000	8.69 2,432	322.98		10.45 2,925	/50.00	1,092.11 5,357
Mh:	50.00 Shifts: 1.0	Mh/Un:		Un/Sh:	2.0000	1,216.01			1,462.49		2,678.50
	2000 2000				0000	-,210.01			-,.02		.,



				Activity	Unit Frice	Summary					
Biditem Activity	Description	Quantity	Unit	Calen WC	dar Hrs/Shif	t Labor	Perm Material	Constr Matl/Exp	Equip- Ment	Sub- Contract	Total
94.13	75"x 86" HS 20 Hatch 8	& Fram 2.00) EA	F6319A	50 10.00) 1,459			1,755		3,214
Mh:	30.00 Shifts: 0.	6 Mh/Un:	15.0000	Un/Sh:					877.50		1,607.11
94.14	56"x 112" HS 20 Hatch) EA	F6319A					7,020		12,857
Mh:	120.00 Shifts: 2.			Un/Sh:					3,509.96		6,428.39
94.15	55"x 51" Hatch & Fram) EA	F6319A		,			4,387		8,036
Mh:	75.00 Shifts: 1.			Un/Sh:					1,462.49		2,678.50
94.16	36"x 60" Hatch & Fram) EA	F6319A					2,925		5,357
Mh:	50.00 Shifts: 1.			Un/Sh:			101 115		1,462.49		2,678.50
94.20	11'-8" x 8' x 7' Vault) EA	F6319A Un/Sh:			,		35,100		165,399
Mh: 95.01	600.00 Shifts: 12.		200.0000 EA	F6319A			33,705.00 38,520		11,699.88 2,632		55,132.98 43,341
Mh:	Concrete Cover (20' Dia 45.00 Shifts: 0.	/		Un/Sh:			19,260.00		1,316.24		21,670.65
95.02	Platform (8.44 NAVD)		22.3000 EA	F6319A					2,340	5,000	9,286
Mh:	40.00 Shifts: 0.			Un/Sh:					1,169.99	2,500.00	
95.03	Landscaping Screening		20.0000) LS	F6319A					1,109.99	15,000	15,000
Mh:	Shifts:	Mh/Un:	LO	Un/Sh:		,				7,500.00	
95.04	Grout / Seal / Coatings) LS	F6319A		3,648	16,050		4,387	7,500.00	24,086
Mh:	75.00 Shifts: 1.			Un/Sh:		,			2,193.73	1	12,042.75
95.05	Start-up / Commissionii) EA	F6319A					1,755		4,284
Mh:	30.00 Shifts: 0.	0		Un/Sh:		,	535.00		877.50		2,142.11
95.06	Warranty Allowance) EA	F6319A					2,340		14,986
Mh:	40.00 Shifts: 0.			Un/Sh:			,		1,169.99		7,492.80
95.07	14th Ct. & Bay Rd. Set) EA	F6319A			3,330.00		57,622		105,533
Mh:	985.00 Shifts: 19.			Un/Sh:		,			28,810.96	4	52,766.38
95.08	24" Well Credit	-1.00		F6319A					20,010.90	-281,750	,
Mh:	Shifts:	Mh/Un:	LS	Un/Sh:		,				281,750.00	,
	Silliusi			012 0111						201,700.00	
	*****Biditem/Category 3,981.66 Mh/Un:	94 ***** 3,981.6600	****			192,244 192,243.95	1,388,937 1,388,937.00		225,904 225,904.25	263,250.00 ²	
*** 95		Electrical / I&	·C			Takeoff:	1.00	1 0	Bid:	1	00 LS
55.1	Control Pannels w/ Floa		EA	F6319A	50 10.00		1.00	Lo	Diu.		422,493
Mh:	Shifts:	Mh/Un:	LII	Un/Sh:		,				211,246.50	
55.2	Ductbank - Civil	920.00) LF	F6319A		64,391	23,433		67,274	,	155,098
	1,380.00 Shifts: 23.		1.5000			,	,		73.12		168.59
	*****Biditem/Category 1,380.00 Mh/Un:	95 ***** 1,380.0000	****			64,391 64,391.17	23,433 23,433.00		67,274 67,274.31	422,493 422,493.00	
*** 96		Rock Anchors	S			Takeoff:	1.00	LS	Bid:	1.	00 LS
96.01	Rock Anchors	8.00) EA	F6319A	50 10.00)	299,600				299,600
Mh:	Shifts:	Mh/Un:		Un/Sh:			37,450.00			3	37,450.00
***** Mh:	*****Biditem/Category Mh/Un:	96 *****	****				299,600 299,600.00			29	299,600 99,600.00
*** 100		24" Interconn	ecting Pip	ping		Takeoff:	1.00	LS	Bid:	1.	00 LS
100.01	Sheet Plating - Shoring			F6319A	50 10.00			7,651	47,628	1,000	97,154
Mh:	840.00 Shifts: 12.			Un/Sh:				69.55	432.98	9.09	883.22
100.02	Dewatering) LS	F6319A					8,904		31,429
Mh:	240.00 Shifts: 6.			Un/Sh:		,	10,138.21		8,904.42	3	31,429.20
100.03	Excavation	300.00		F6319A					13,175	60,000	92,523
Mh:	300.00 Shifts: 5.			Un/Sh:					43.92	200.00	308.41
100.04	Set up / Down & Install) LS	F6319A					11,550		35,871
Mh:	500.00 Shifts: 10.			Un/Sh:					11,550.30	3	35,870.52
100.05	Seal & Grout	600.00		F6319A					2,950		17,979
Mh:	100.00 Shifts: 2.	0 Mh/Un:	0.1667	Un/Sh:	300.0000				4.92		29.96
	****Biditem/Category	100	*****			95,588		7,651	84,207	,	274,955
Mh:	1,980.00 Mh/Un:	1,980.0000				95,588.29	26,509.21	7,650.50	84,207.34	61,000.00	274,955.34
*** 120		Utility Reloca	tions and l	Removal		Takeoff:	1.00	LS	Bid:	1	00 LS
120.1	Utility Relocations and) LS	F6319A	50 10.00			7,000	83,885	1.	207,608
	2,450.00 Shifts: 35.							7,000.00	83,884.85	20	07,608.05
17111.	2, 150.00 Billits. 33.	V 1411/ U11.	2,720.0000	011/011.	0.0200	, 110,723.20		7,000.00	05,007.05	20	,,,000.03



Biditem	0 4 7 7	Calendar	Perm	Constr	Equip-	Sub-
Activity Description	Quantity Unit	WC Hrs/Shift	Labor Material	Matl/Exp	Ment	Contract Total
*******Biditem/Category	120 *******		116,723	7,000	83,885	207,608
Mh: 2,450.00 Mh/Un:	2,450.0000		116,723.20	7,000.00	83,884.85	207,608.05
Mh: 36,102.09 ***REP	ORT TOTALS***		1,847,448 3,531,298	606,799	2,780,257	1,333,814 10,099,617

N = Activity not adjusted to bid quantity



091 - North Structure Comparison

Structure Type	Unit	Dimensions	Base Bid & CO 3B	60% Drawings Qty	Delta
P-9 Catch Basin	EA	48" Round	25	0	-25
Catch Basin	EA	60" Round	2	0	-2
J-7Catch Basin	EA	48" x 84"	11	0	-11
J-9 Catch Basin	EA	48" x 84"	13	0	-13
J-7 Catch Basin	EA	84" x 84"	4		
J-9 Catch Basin	EA	84" x 84"	7	0	-7
Type P Inilet	EA	48" Round	9	0	-9
MH Round	EA	60" Round	15	0	-15
Manhole	EA	120" x 84"	2	0	-2
Type 1	EA	4' x 4'	0	1	1
Type 2	EA	5' x 4'	0	1	1
Type 4	EA	4' x 4'	0	4	4
Type 4 Round	EA	4'	0	1	1
Type 5	EA	4' x 4'	0	7	7
Type 5	EA	4' x 8'	0	1	1
Type 5 Round	EA	4'	0	1	1
Type 5 Round	EA	8'	0	1	1
Type 6 J Bottom	EA	4' x 4'	0	14	14
Type 6 J Bottom	EA	6' x 6'	0	1	1
Type 6 J Bottom	EA	7' x 4'	0	1	1
Type 6 J Bottom	EA	8' x 6'	0	1	1
Type 6 J Bottom	EA	8' x 8'	0	1	1
Type 6 Round	EA	4'	0	4	4
Type 6 Round	EA	6'	0	2	2
Type 6 Round	EA	8'	0	1	1
Type 10	EA	3.5'	0	1	1
Type J7	EA	3.5' x 8'	0	1	1
Type J7	EA	4' x 4'	0	9	9
Type J7	EA	5' x 5'	0	1	1
Type J7	EA	5' x 8'	0	1	1
Type J7	EA	6' x 4'	0	17	17
Type J7	EA	6' x 6'	0	1	1
Type J7	EA	7' x 4'	0	6	6
Type J7	EA	7' x 6'	0	1	1
Type J7	EA	8' x 4'	0	18	18
Type J7	EA	8' x 6'	0	2	2
Type J7	EA	8' x 8'	0	1	1
Type J7	EA	12' x 8'	0	1	1
Type J7	EA	12' x 12'	0	3	3
Type J7 Round	EA	7'	0	1	1
Type J7 Round	EA	10'	0	1	1
Type F	EA	4' x 2.5'	0	39	39
Type F	EA	4' x 4'	0	1	1
Type F	EA	7' x 4'	0	1	1
Type G	EA	7' x 6'	0	1	1
Type V	EA	4' x 4'	0	10	10

_				
$-\mathbf{v}$	hı	hı	t.	Δ
$\mathbf{L}^{\mathbf{\Lambda}}$	ш	νı	u	$\overline{}$

Structure Type	Dimensions	Base	Bid & CO 3B	60% E	Drawings Qty	Delta
P-9 Catch Basin	48" Round	\$	230,236.19	\$	-	\$ (230,236.19)
Catch Basin	60" Round	\$	19,690.05	\$	-	\$ (19,690.05)
J-7 Catch Basin	48" x 84"	\$	132,329.64	\$	-	\$ (132,329.64)
J-9 Catch Basin	48" x 84"	\$	155,722.33	\$	-	\$ (155,722.33)
J-7 Catch Basin	84" x 84"	\$	53,949.23	\$	-	\$ (53,949.23)
J-9 Catch Basin	84" x 84"	\$	38,490.97	\$	-	\$ (38,490.97)
Type P Inilet	48" Round	\$	52,257.00	\$	-	\$ (52,257.00)
MH Round	60" Round	\$	109,963.47	\$	-	\$ (109,963.47)
Manhole	120" x 84"	\$	36,878.53	\$	-	\$ (36,878.53)
Structures Type 1, 2, 4, 5, 6J, J7, F and V	4'x2.5', 4'x4' & 4'x5'	\$	-	\$	527,057.95	\$ 527,057.95
Round Type 4, 6 and 10	3.5' & 4'	\$	-	\$	48,799.75	\$ 48,799.75
Structures Type 5, 6J and J7	4'x8', 8'x6', 8'x5' & 8'x8'	\$	-	\$	369,869.80	\$ 369,869.80
Round Type 5, 6 and J7	6', 7' 8' & 10'	\$	-	\$	65,500.59	\$ 65,500.59
Structures Type 6J, J7 and G	6'x4', 6'x6', & 6'x7'	\$	-	\$	227,645.68	\$ 227,645.68
Structures Type 6J, J7 and F	7'x4'	\$	-	\$	103,663.08	\$ 103,663.08
Structures Type J7	12'x8 and 12'x12''	\$	-	\$	102,247.25	\$ 102,247.25



City of Miami Beach Capital Improvement Projects Office 1700 Convention Center Drive Miami Beach, FL 33139 **WEST AVE 091 NORTH**

April 21, 2021 Sent Via Email

Attn: Sabrina Baglieri

Re: West Ave 091 - North

Subj: Change Order Submission

10-Year Storm Piping and Structures & WTS Relocation

Water Quality

Commodity and Subcontractor Escalation

RMCF Labor Escalation

Time Extension

\$ 4.305,203

\$ 11,738,751

\$ 386,952

1,961 Calendar Days

Dear Sabrina,

Enclosed find Ric-Man Construction Florida, Inc's (RMCF) lump sum proposals to accommodate the above referenced changes to the current contract for your review and approval. RMCF based the pricing on CES Consultant's 60% revised drawings submitted under separate cover.

These drawings incorporate all the required changes and modifications so directed by the City. The history of the changes is well documented in prior correspondence, meeting minutes and Commission Resolutions as well as Change Orders and Directives. RMCF summarizes that history below.

I- 10 -Year Storm Piping and Structures & WTS relocation - \$4,305,203

Subsequent to the re-start of the design elements of the project following a 1-year pause to the contract between December 2017 through December 2018, Change Order # 3B was issued for certain Sea Level Rise and ULI Resiliency enhancements including added capacity to the new Lincoln Road pump station and increasing the size of drainage piping and structures per the newly completed AECOM 10-year Stormwater Drainage Map dated May 4, 2017 as modified on January 17, 2018. (Reference Item 26 in RMCF's proposal dated February 26, 2019)



3100 SW 15th Street Deerfield Beach, Florida 33442 Office:(954)426-1221

Fax:(954)426-1226

In January 2019, coincident with the pricing submitted under the AECOM Drainage Mapping described above, RMCF was requested to perform an independent drainage modeling study under the 10-year storm event criteria. We were asked to review the newly published AECOM report and take into account Pre and Post flooding considerations for the 147 Acre West Ave basin by examining the effects of the entire 600 Acre Miami Beach Basin on the West Avenue Basin with the intent of re-vamping the drainage design based on CES recommendations, RMCF's lead design consultant (A departure from DCP contract requirements). In March 2019 following a February 28, 2019 meeting with the City a final proposal was established for the study culminating in CO# 3A. The study specifically precluded water quality considerations focusing on the quantity (volume) of flooding in the West Ave affected areas, only.

On June 28, 2019 RMCF/CES presented the modeling product and made recommendations with multiple alternative approaches to improve flooding concerns at the West Ave Basin during a 10-Year storm event. Option 2.1B was selected on August 2, 2019 and RMCF/CES was directed to provide a cost proposal and continue with the design, accordingly. Option 2.1B did not consider the effects of the full 600 Acre impact on individual properties and/or low-lying finish floor elevations (FFE) within the West Ave 147acre basin.

A proposal for upsizing drainage piping and structures was presented on August 7, 2019 in the amount of \$1,787,000 but not acted upon by the City primarily due to two (2) parallel issues, (1) the objection by residents of placing the now 120,000 GPM WTS at the end of Lincoln Road and (2) a directive by the City Engineer on November 15, 2019 to halt all submittals to address with DERM a new issue - Water Quality improvements throughout the West Avenue Basin. It should be noted, the Final Drainage Report was submitted to the City on September 5, 2019 followed by 90 % drawings on October 1, 2019. Comments were received on October 21, 2020 and RMCF intended to submit 100% stamped drawings to DERM on November 15, 2020 to obtain the Class 2 permit and commence construction shortly thereafter.

As a result of the relocated WTS, which will be discussed below and the addition of Water Quality Improvements, also discussed below, the drainage piping and structures have been revised to accommodate those changes and new pricing developed.

Pricing is based on the following scope changes and additions from the previously issued CO 3B.

- Piping and structure pricing has been updated to coincide with the anticipated schedule for the work commencing October 2021 through January 2025.
- 84" discharge piping from WTS to 17th St Dissipator.
- Drainage distribution piping from mains to water quality settlement basins.



3100 SW 15th Street Deerfield Beach, Florida 33442 Office:(954)426-1221

Fax:(954)426-1226

- Conflict structures as required by the 60% design drawings and specifically excluded in the August 7, 2019 proposal.
- Pipe sizes adjusted based on the relocation of the WTS from Lincoln Rd end to 1671 West Ave.
- Subcontractor commodity escalation has been included as a separate item due to the delay in construction start from 2019 to 2021/2022 where applicable through anticipated completion.

WTS Relocation

The original capacity of the WTS, 60,000 GPM was situated at the end of Lincoln Road as required by the DCP. The capacity was based on a 5- year flood event. Based on a request from the City under Change Order # 3B, item 17, the result of the Resiliency effort which took place in 2018, one (1) additional 20,000 GPM pump and one (1) Vortex unit was added, for volume and water quality, respectively. In March 2019, a 1250 KW Generator was added to the scope (item 14 CO #3B). In May 2019 as final designs were being formulated negative feedback from local Lincoln Road residents were conveyed relative to the location of the WTS, its size and the perceived impact to the neighborhood. The City requested RMCF investigate alternate locations for the WTS and after examining no less than ten (10) locations, in November 2019, recommended what is now termed the "Median Concept" at Lincoln Road between Lincoln Ct and Bay Road. RMCF was directed to develop the concept, include elaborate screening, added green park like space and roadway enhancements while initiating public interaction on final development of the concept and pricing. Weekly meetings with residents to answer questions and take suggestions on the enhancements and development of the Median Concept were held commencing in December 2019.

Based on resident feedback and recommendations made on May 6, 2020 by the Land Use and Sustainability Committee, RMCF was formally requested by the Commission on June 24, 2020 to perform a feasibility study to seek out a new set of alternate locations.

On July 1, 2020, the City issued Contingency Draw #1 in the amount of \$207,776 to study no less than ten (10) alternatives for the WTS including the preferred location (Median Concept), produce a comparison of pros and cons with budget pricing and rate each alternate location from the preferred spot for review by the public and Commission. Based on the CES report dated June 29, 2020, RMCF provided a detailed proposal of Budget costs and time impacts for eleven (11) alternatives culminating in a public presentation of these alternates. The Commission on October 28, 2020, following a virtual presentation, selected Option 3A. Option 3A places the WTS at 1671 West Ave parking lot with discharge to the Collins Canal at 17th St. Option 3A was budgeted at the time to cost \$2,875,000.



Borne out of that approval, the City issued Contingency Draw #2 for \$137,500 on December 4, 2020 based on RMCF's proposal and summary of Change letter dated November 19, 2020 for 50% of the total re-design fee of \$275,000 for the design of the relocated WTS.

Pricing is based on the following scope changes and additions from previously issued CO 3B.

- Parking lot at 1671 West Ave removals, relocation of utilities, new fencing and gates and repaying as required to reinstate remaining parking spaces.
- West Ave milling and paving between Lincoln Road and through the 17th St intersection.
- Cofferdam/support of excavation increases to accommodate new structures at WTS Junction Box and Dissipator Receiver Box.
- New Effluent Discharge Box.
- · New Dissipater Receiver box.
- 8" Air vacuum valve assemblies.
- Upgraded Contech Vortex units to 65 CFS from 63 CFS.
- · Duct bank and Structures from West Ave to New FPL vault.
- · FPL Vault- supply and install.
- Added MOT considerations ODP and roadway/signalization changes at 17th St & West Ave.
- Landscaping/fencing at 17th St.
- Striping and signage at West Ave between Lincoln Road and 17th St.
- Screening system at WTS.
- Added hatches due to additional structures.
- Sea Wall Modifications at 17th St.
- Sea Wall Modifications at Lincoln Rd end.
- Subcontractor commodity escalation has been included as a separate item due to the delay in construction start from 2019 to 2021/2022 where applicable through anticipated completion date.
- 50% of the WTS Relocation Design Fee.

A. Credits included:

- 60" Bypass System with manifold and 32" discharge to dissipater
- 60" Flap Valves
- Bypass hatches
- Dissipator tie back system.

B. Items not included:

General Conditions (priced with Water Quality CO)



II- Water Quality Enhancements - \$11,738,751

As indicated above the issue of Water Quality came to a head on November 15, 2019 when the City directed RMCF (via email) to cease making its 100% drainage design submission to DERM. RMCF was informed that DERM will initiate required improvements to water quality in the West Avenue Basin before a Class 2 permit would be issued. Preceding this notice to hold, in an October 30, 2019 meeting with DPW, CIP, RMCF and CES, RMCF was informed that the present water quality approach during the upcoming permitting process would need to be addressed. It should be understood, the DCP nor the more recent modeling by CES for the 10-year storm events addressed water quality at the October 31, 2019 meeting. RMCF was directed to proceed with submission of the completed drainage design but perform additional studies of existing pump stations at 6th, 10th, 14th and 17th street pump stations to determine treatment capacities for the West Avenue Basin. RMCF further documented the sequence of events in its October 31, 2019 letter to the City. Then came the November 15, 2019 stop work directive.

In the period between November 2019 and early February 2020 RMCF, CES and the City explored various options at the City's request to improve Water Quality standards at the West Avenue basin based on City interactions with DERM. On February 10, 2020 RMCF provided three (3) alternate schemes for review along with budgeted costs and a preliminary draft of the requested Technical Memorandum recommending the treatment of 30,000 GPM for water quality purposes utilizing fifteen (15) shallow wells. At that time, RMCF requested a design Change Order to initiate the work necessary to make a presentation to DERM. On February 18, 2020 RMCF provided a revised proposal based on input from the City along with revised Budget pricing and revised Technical Memorandum for the design work. On March 27, 2020 RMCF provided an expanded proposal for review by the City based on continuing technical and conceptual discussions. On May 4 and May 14, 2020 RMCF memorialized its final proposal requesting immediate NTP to proceed with the design work.

It is important to note, the City tabled the above requested design NTP pending resolution of the WTS relocation issue. It was not until the October 28, 2020 Commission meeting that RMCF was provided clearance via Resolution 2020-31243 to proceed. On January 5, 2021 RMCF received formal direction from CIP to proceed with the Water Quality design development. CO # 5 in the amount of \$1,101,869 was subsequently issued on January 21, 2021.

Pricing is based on the following scope changes and additions from previously issued CO 3B.



- RMCF will install, make operational and test- two (2) settlement basins 20' OD, two (2)
 Pumping stations 20' OD servicing six (6) 24" diameter wells with structures including all
 mechanical, electrical and controls to divert drainage water at two (2) locations within the
 West Avenue basin (Lincoln/Bay Rd & 14th Ct/West Ave) utilizing primarily Secant pile
 construction methodology.
- RMCF will install, make operational and test five (5) settlement basins 15' OD, five (5)
 Pumping stations 15' OD servicing five (5) 24" diameter wells with structures including all
 mechanical, electrical and controls to divert drainage water at five (5) locations within the
 West Avenue basin (2-15th Terr, 2-16th St, 1- Lincoln Rd) utilizing primarily Secant pile
 construction methodology.
- Provide one (1) 24" diameter well and structure located at the new WTS at 1671 West Ave including 2-7.5 HP pumping systems housed within the WTS for Water Quality purposes.
 Power and control scheme will be integrated within the WTS overall design.
- Provide control panel platforms at seven (7) locations with landscaping screening as approved by the City.
- · Utility relocations as needed included.
- Power will be provided by FPL along Alton Court in the form of a pole mounted transformer feeding a handhole. RMCF to route duct bank from handhole at power pole to pump station sites.
- Full MOT/road closures at work locations included. Access to residents will be coordinated on a case-by-case basis.
- General Conditions based on 150 days of extended field time to complete the work.
- Budgeted numbers have been updated for commodity increase to RMCF self- perform items and subcontractor pricing.

III- Commodity and Subcontractor Escalation - \$1,549,967

Construction commodities have increased 3.6% from Dec/Jan 2019 through February 2021 according to the Producer price Index sponsored by the U.S. Bureau of Labor Statistics. The Project under CO 3B was compensated for escalation through an expected completion date of June 21, 2022 (Feb 2019 update # 18). The current change order work has been adjusted through the new proposed substantial completion date of January 11, 2025 provided formal



3100 SW 15th Street Deerfield Beach, Florida 33442 Office:(954)426-1221

Fax:(954)426-1226

releases to vendors can be accomplished shortly in this highly marginalized market. Lumber and steel are experiencing large swings upward in pricing, as much as 17% and 6%, respectively. See attached Steel Price Forecast and Market Outlook published by HIS Markit. Steel pricing in the United States which impacts our, piping, pumping units, conduit, wire, re-bar, and a wealth of other steel products are expected to remain high throughout 2021 (when commitments will be made to suppliers), due to high demand but slow recovery from COVID impacts to manufacturing these products. PVC has been affected as well due to power failures in Texas impacting production there.

RMCF has analyzed the balance of work and received input from most of our commodity suppliers moving forward. In consideration of \$1,549,967 (see attached Spreadsheet) RMCF will accept the risk of escalation for the period of construction through February 1, 2025 provided approval of our pricing in the form of a formal commitment is received no later than June 30, 2021 and the City agrees to pay for stored material, offsite to combat escalation charges. The volatility of commodity markets is too extreme to accept long delays in commitments to our suppliers.

In the event the schedule slips due to no fault of RMCF, we specifically reserve our rights to recover added escalation past the February 1, 2025 substantial completion date.

A possible alternative would be to negotiate an escalation clause in the upcoming Change Order to protect RMCF and the City from the volatile swings in commodity pricing we are currently experiencing.

IV- RMCF Labor Escalation- \$386,952

Under CO# 3B – item 23 labor rates were adjusted based on anticipated Substantial Completion of June 21, 2022. Labor rates for the current changed work have been accounted for through the new proposed substantial completion date of January 11, 2025 and are included within the individual change order proposals listed above.

According to the U.S. Bureau of labor Statistics rates within the construction industry experienced increases on average of 6% between 2019 and 2021, or 3% per year (0.25% / Mo). Consequently, RMCF proposes an escalation factor of 0.25% per month for the period between June 21, 2022 (the expected completion date under CO#3B) and January 2025 (the current projected completion date) or 30 months. (see attached spread sheet).

In addition, the new change order labor has been escalated from January 2023 thru January 2025, the new projected completion date amounting to 24 months of added escalation.

VI- Time Extension 194 Calendar Days

The original contract duration was 730 calendar days.

The impacts to achieving substantial completion are well documented but summarized here as follows:

Original Contract Duration	730 Days
1- Previous CO - Hurricane Irma -	30
2- Shut down delay #1-12/18/17- 12/20/18- Resiliency ULI.	368
3- Design & Const. add Jan 2019 CPM Update - CO 3B	659
4- 10-Year Roadway/drainage changes- 8/3/19- 10/30/19.	89
5- Shut Down #2 - WTS Relo. and Water Quality- 10/31/19 -10/28/20.	364
6- Change Order design negotiation 10/28/20 - 1/15/21.	79
7- Design Restart New WTS/Water Quality/Complete Design 1/16/21- 9/30/21.	252
8- Construction Impacts due to Water Quality additions.	150
Total Contract Days	2,721 Days
Total Days Requested $(2,721-730+30=1,961)$	1,961 Days

RMCF provides the detailed schedule with full details of the impacts in the form of a consolidated TIA submission, attached. It should be understood that the basis of the request is rooted in a 10/4/21 construction start driven by the issuance of a Class 2 permit by DERM. Any delay in this critical process will impact the end date. DERM has not published its intentions regarding minimum standards of compliance relative to Water Quality therefore, we specifically reserve our right to additional time and cost in the event the permitting process is extended through no fault of RMCF.



It is important to note the near criticality of the Harmonization Agreement approvals by segment. The issues of encroachment removals, payments for removals, and/or relocations within the ROW over and above the DCP criteria on private property remains an open item.

This in addition to recent requests to address certain vulnerable residences (50+) which may be impacted by a 10-year flood event when considering the impact of all 600 acres (147 acres West Ave, 453 acres east of Alton). RMCF points to recent correspondence dated March 9 (2 letters) and March 17, 2021 requiring the City's input and direction.

We trust the foregoing information is complete and while not necessarily within the budgetary limits set by the City based on aforementioned market conditions, we request approval to proceed with the completion of this important project. Please contact me with any additional information you may require during your review process.

Sincerely,

Michael R. Fischer, COO.

Ric-Man Construction Florida, Inc.

CC:

Danny Mancini
Tyson DiPetrillo
Dan LaCross
Rafael Vega
Jose Caraballo
Jorge Rodriguez
Nick Karpathy – Chen Moore

Attachments

- 1. 091 CPM Critical Path and Impacted Schedule, All Activities
- 2. February 26, 2019 Proposal Letter, Item # 26
- 3. August 7, 2019 Proposal Letter Model 2.1B
- 4. March 6, 2019 Proposal Letter, Item # 14
- 5. November 19, 2020 Summary of Changes
- 6. November 15, 2020 Jacome-Perez Email
- 7. October 30, 2019 Meeting Minutes
- 8. October 31, 2019 RMCF Letter
- 9. March 27, 2020 Email, RMCF
- 10. May 14, 2020 Proposal Letter
- 11. 10-Year Storm and WTS Relocation Pricing Sheets w/HCSS Reports
- 12. Water Quality Pricing Sheets w/ HCSS Reports



- 13. Vendor/Subcontractor Back-up Documentation
- 14. Steel Price Forecast IHS Markit
- 15. Commodity & Subcontractor Escalation Spread Sheet
- 16. Escalation RMCF Direct Labor Spread Sheet w/ Index Charts

KB 91 West Avenue Neighborhood Improvement North - Delay Summary

Exhibit A

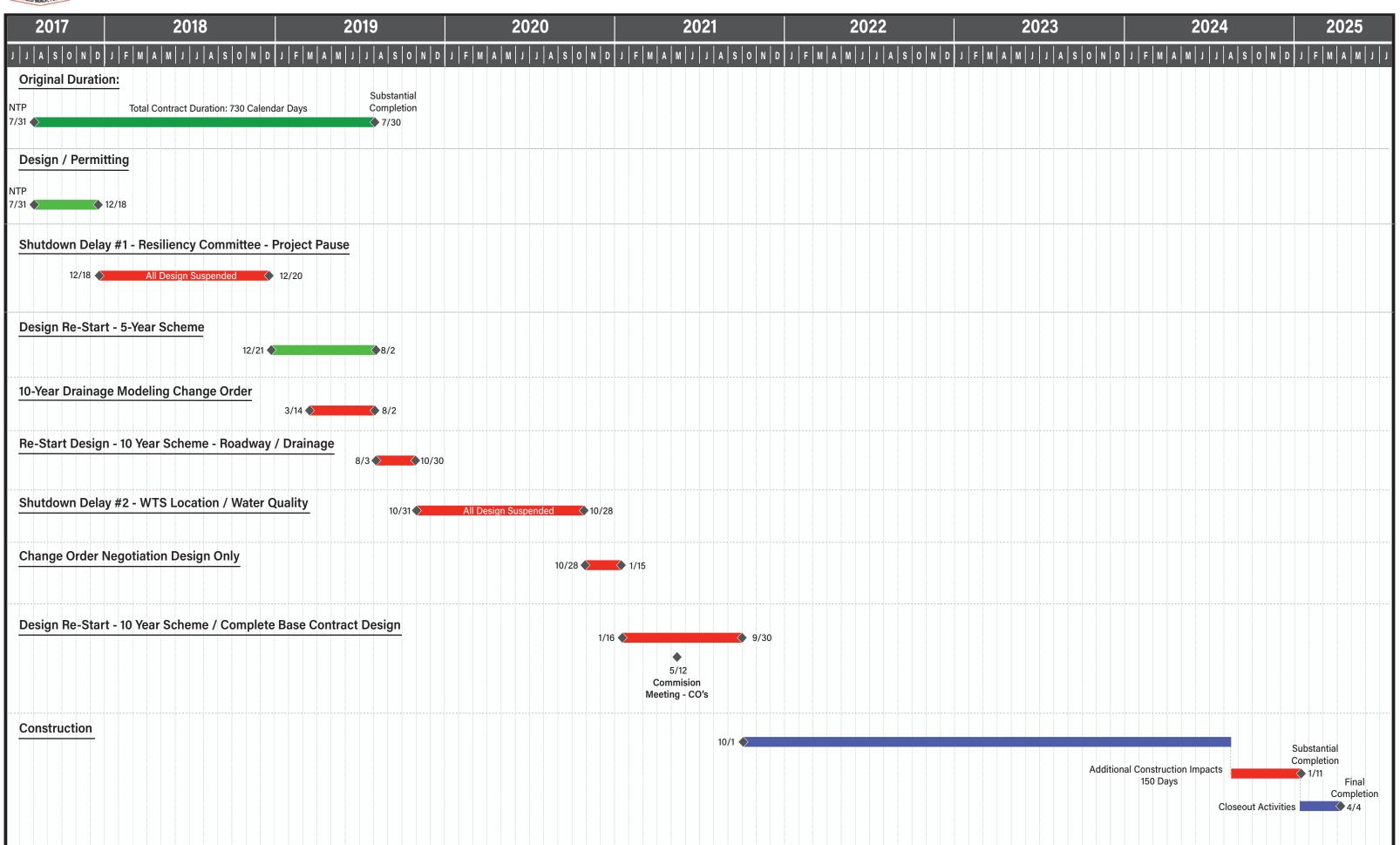


Exhibit A

KB-91 WEST AVENUE NEIGHBORHOOD IMPROVEMENT NORTH MARCH 31, 2021 UPDATE 43 + NEW DESIGN BAR CHART - ALL ACTIVITIES

Critical Remaining Work

Actual Work



vity ID	Activity Name	OD	RI	PCT Start	Finish	Total Float	Calendar		2022 2023 2024 20
B-91 WES	ST AVENUE NEIGHBORHOOD IMPROVEMENT NORTH MARCH 31, 2021 UPDATE 43 +	NEW DESIGN						W. Jajawa	DIFMAMIJASQNDJFMAMJJASQNDJFMAMJJASQNDJF
MILESTON	为11 (14 mm) 中国 12 mm)					CONTRACTOR OF STREET	III A PERSONAL PROPERTY.		
MS-01	NTP 1 - DESIGN (7/31/2017)	0	(100% 31-Jul-17 A			KB91 - 7 DAY		
MS-02	NTP 2 - CONSTRUCTION	0	(0% 04-Oct-21	-	-77	KB91 - 5 DAY	•	
MS-05	SUBSTANTIAL COMPLETION #3 (BAYWALK PERMIT + 180 DAYS TIA 01 7/29/2019 + RBL 12/17/2020)	0	0	0%	29-Sep-22*	-651	KB91 - 7 DAY		
MS-03	SUBSTANTIAL COMPLETION #1 (NTP 1 + 730 DAYS 7/30/2019 TIA 01 8/29/2019 + RBL 6/21/2022)	0	0	0%	13-Jan-25*	-937	KB91 - 7 DAY		
MS-06	FINAL COMPLETION (SC #1 + 90 DAYS 10/28/2019 TIA 01 11/27/2019 + RBL 9/13/2022)	0	C	0%	07-Apr-25*	-937	KB91 - 7 DAY		
WEST AVE	NUE - PUMP STATION RELOCATION AND WATER QUALITY WELLS		75			75555			
	NICAL INVESTIGATION (FOR WEST AVENUE PUMP STATION AND WATER QUALITY WELL	S)						4111111	
A03	LANGAN: SOIL BORINGS SITE WORK AND PREPARATION OF LOGS	19	0	100% 01-Feb-21 A	25-Feb-21 A		KB91 - 5 DAY		
A05	LANGAN: PREPARATION OF WATER QUALITY WELLS GEOTECHNICAL REPORT (NORTH)	16	0	100% 26-Feb-21 A	100000000000000000000000000000000000000		KB91 - 5 DAY		
A06	LANGAN: PREPARATION OF WEST AVENUE PUMP STATION GEOTECHNICAL REPORT	18	0	100% 26-Feb-21 A			KB91 - 5 DAY		
A04	LANGAN: PREPARATION OF WATER QUALITY WELLS GEOTECHNICAL REPORT (SOUTH)	21	0	100% 26-Feb-21 A	The second secon		KB91 - 5 DAY		
PUMP STA	TION RELOCATION (60% SUBMITTAL)	NAME OF TAXABLE							
A09	60% CML, MECHANICAL, AND ELECTRICAL DESIGN FOR WEST AVENUE PUMP STATION	16	0	100% 26-Feb-21 A	19-Mar-21 A		KB91 - 5 DAY		
A10	60% WESTAVENUE PUMP STATION SUBMITTAL TO RMCF (CIVIL, MECHANICAL, ELECTRICAL)	1	0	100% 22-Mar-21 A			KB91 - 5 DAY		
A12	RMCF REVIEW OF 60% WEST AVENUE PUMP STATION SUBMITTAL (CML, MECHANICAL, ELECTRICAL)	5	0	100% 23-Mar-21 A			KB91 - 5 DAY		
A08	60% STRUCTURAL DESIGN FOR WEST AVENUE PUMP STATION	11	5	54.55% 24-Mar-21 A	07-Apr-21	-69	KB91 - 5 DAY		
A11	60% WEST AVENUE PUMP STATION SUBMITTAL TO RMCF (STRUCTURAL)	1	1	0% 08-Apr-21	08-Apr-21	-69	KB91 - 5 DAY		
A13	RMCF REVIEW OF 60% WESTAVENUE PUMP STATION SUBMITTAL (STRUCTURAL)	2	2	0% 09-Apr-21	12-Apr-21	-69	KB91 - 5 DAY		
A14	ADDRESS COMMENTS FROM 60% WEST AVENUE PUMP STATION RMCF REVIEW	4	4	0% 13-Apr-21	16-Apr-21	-69	KB91 - 5 DAY		
A15	60% WEST AVE NUE PUMP STATION SUBMITTAL TO OMB	1	1	0% 19-Apr-21	19-Apr-21	-69	KB91 - 5 DAY		
A16	CMB REVIEW OF 60% PUMP STATION SUBMITTAL	10	10	0% 20-Apr-21	03-May-21	368	KB91 - 5 DAY		
STORM DE	RAINAGE AND WATER QUALITY WELL SYSTEMS (60% SUBMITTAL)						Makanalan dalam	Tiiliiii	
A20	60% STORM DRAINAGE DESIGN	21	0	100% 26-Feb-21 A	26-Mar-21 A		KB91 - 5 DAY		
A22	SCHWEBKE-SHISKIN: 60% ROADWAY SUBMITTAL TO CES	1	0	100% 29-Mar-21 A			KB91 - 5 DAY		
A23	SAVINO MILLER: 60% LANDSCAPE, PLANTING, AND IRRIGATION SUBMITTAL TO CES	1	0	100% 29-Mar-21 A			KB91 - 5 DAY		
A24	CW: 60% MOT SUBMITTAL TO CES	1	0		29-Mar-21 A		KB91 - 5 DAY		
A25	CWI: 60% SIGNING AND PAVEMENT MARKINGS SUBMITTAL TO CES	1	0	100% 29-Mar-21 A	29-Mar-21 A		KB91 - 5 DAY		
A26	CWI: 60% SIGNALIZATION SUBMITTAL TO CES	1	0		29-Mar-21 A		KB91 - 5 DAY		
A27	CWI: 60% LIGHTING SUBMITTAL TO CES	1	0	100% 29-Mar-21 A			KB91 - 5 DAY	+	
A28	MOFFATT & NICHOL: 60% BAYWALK AND 17TH STREET DISSIPATOR SUBMITTAL TO CES	1	0	100% 29-Mar-21 A			KB91 - 5 DAY		
A21	REVISION OF STORMWATER MODEL AND REPORT	25	1	96% 26-Feb-21 A	01-Apr-21	-68	KB91 - 5 DAY		
A29	60% STORM DRAINAGE SUBMITTAL TO RMCF	1	1	0% 02-Apr-21	02-Apr-21	-68	KB91 - 5 DAY		
A19	60% CMIL, MECHANICAL, AND ELECTRICAL DESIGN FOR WATER QUALITY WELLS	14	6	57.14% 22-Mar-21 A	08-Apr-21	-73	KB91 - 5 DAY		
A30	60% WATER QUALITY WELLS SUBMITTAL TO RMCF (CIVIL, MECHANICAL, ELECTRICAL)	1	1	0% 09-Apr-21	09-Apr-21	-73	KB91 - 5 DAY I		
N32	RMCF REVIEW OF 60% STORM DRAINAGE SUBMITTAL	5	5	0% 05-Apr-21	09-Apr-21	-68	KB91 - 5 DAY		
A18	60% STRUCTURAL DESIGN FOR WATER QUALITY WELLS	20	12	40% 22-Mar-21 A	16-Apr-21	-77	KB91 - 5 DAY		
A33	RMCF REVIEW OF 60% WATER QUALITY WELLS SUBMITTAL (CMIL, MECHANICAL, ELECTRICAL)	5	5	0% 12-Apr-21	16-Apr-21	-73	KB91 - 5 DAY		
A31	60% WATER QUALITY WELLS SUBMITTAL TO RMCF (STRUCTURAL)	1	1	0% 19-Apr-21	19-Apr-21	-77	KB91 - 5 DAY		
A34	RMCF REVIEW OF 60% WATER QUALITY WELLS SUBMITTAL (STRUCTURAL)	3	3	0% 20-Apr-21	22-Apr-21	-77	KB91 - 5 DAY		
A35	ADDRESS COMMENTS FROM 60% WATER QUALITY WELLS RINCF REVIEW	4	4	0% 23-Apr-21	28-Apr-21	-77	KB91 - 5 DAY		
A36	60% WATER QUALITY WELLS SUBMITTAL TO CMB	1	1	0% 29-Apr-21	29-Apr-21	-77	KB91 - 5 DAY		
A37	CMB REVIEW OF 60% STORM DRAINAGE AND WATER QUALITY WELLS SUBMITTALS	10	10	0% 30-Apr-21	13-May-21	-63	KB91 - 5 DAY		
OMPLETE	DESIGN PACKAGE (100% SUBMITTAL, ALL DISCIPLINES)								
44	SCHWEBKE-SHISKIN: 100% ROADWAY SUBMITTAL TO CES	6	6	0% 14-May-21	21-May-21	-63	KB91 - 5 DAY	0	
A45	SAVINO MILLER: 100% LANDSCAPE, PLANTING, AND IRRIGATION SUBMITTAL TO CES	6	6	0% 14-May-21	21-May-21	-63	KB91 - 5 DAY		

Critical Remaining Work

Actual Work



ivity ID													
	Activity Name	OD	RD	PCT Start	Finish	Total Float	Calendar	2021 A M J J A S 9 N D J F	2022		2023	D JEMAM I	
A46	CWI: 100% MOT SUBMITTAL TO CES	6	6	0% 14-May-21	21-May-21	-63	KB91 - 5 DAY				NAMAN	A14\v\1	11/19/1/10/1/1
A47	CWI: 100% SIGNING AND PAVEMENT MARKINGS SUBMITTAL TO CES	6	6	0% 14-May-21	21-May-21	-63	KB91 - 5 DAY	0					
A48	CWI: 100% SIGNALIZATION SUBMITTAL TO CES	6	6	0% 14-May-21	21-May-21	-63	KB91 - 5 DAY	0					
A49	CWI: 100% LIGHTING SUBMITTAL TO CES	6	6	0% 14-May-21	21-May-21	-63	KB91 - 5 DAY	0					
A50	MOFFATT & NICHOL: 100% BAYWALK AND 17TH STREET DISSIPATOR SUBMITTAL TO CES	6	6	0% 14-May-21	21-May-21	-63	KB91 - 5 DAY	0					
A39	100% STRUCTURAL DESIGN FOR WEST AVENUE PUMP STATION	30	30	0% 20-Apr-21	31-May-21	-69	KB91 - 5 DAY						
A41	100% CIVIL, MECHANICAL, AND ELECTRICAL DESIGN FOR WEST AVENUE PUMP STATION	30	30	0% 20-Apr-21	31-May-21	-69	KB91 - 5 DAY						
A40	100% STRUCTURAL DESIGN FOR WATER QUALITY WELLS	30	30	0% 30-Apr-21	10-Jun-21	-77	KB91 - 5 DAY						
A42	100% CIVIL, MECHANICAL, AND ELECTRICAL DESIGN FOR WATER QUALITY WELLS	30	30	0% 30-Apr-21	10-Jun-21	-77	KB91 - 5 DAY				111111		
A43	REVISION OF STORMWATER MODEL AND REPORT	30	30	0% 30-Apr-21	10-Jun-21	-77	KB91 - 5 DAY						
A51	100% STORM DRAINAGE DESIGN SUBMITTAL TO RINCF AND CMB	1	1	0% 11-Jun-21	11-Jun-21	-77	KB91 - 5 DAY						
A52	100% WEST AVENUE PUMP STATION SUBMITTAL TO RMCF AND CMB	1	1	0% 11-Jun-21	11-Jun-21	-77	KB91 - 5 DAY						
A53	100% WATER QUALITY WELLS SUBMITTAL TO RINCF AND CMB	1	1	0% 11-Jun-21	11-Jun-21	-77	KB91 - 5 DAY						
A54	RMCFAND CMB REVIEW OF 100% WATER QUALITY WELLS AND WESTAVENUE PUMP STATION	5	5	0% 14-Jun-21	18-Jun-21	-77	KB91 - 5 DAY			Hifth	111111		
A55	ADDRESS COMMENTS FROM 100% WATER QUALITY WELLS AND WEST AVENUE PUMP STATION REVIEW	13	13	0% 21-Jun-21	07-Jul-21	-77	KB91 - 5 DAY						
PERMITT	NG												
A57	100% WEST AVENUE PUMP STATION SUBMITTAL TO DERMAND SPWMD	1	1	0% 08-Jul-21	08-Jul-21	-77	KB91 - 5 DAY						
A58	100% WATER QUALITY WELLS SUBMITTAL TO DERM AND SFWMD	1	1	0% 08-Jul-21	08-Jul-21	-77	KB91 - 5 DAY						
A61	DERMAND SFWMD 1 ST REVIEW OF WATER QUALITY WELLS AND WEST AVENUE PUMP STATION SUBMITTAL	25	25	0% 09-Jul-21	12-Aug-21	-77	KB91 - 5 DAY						+
A59	REVISION OF 100% WATER MAIN DRAWINGS (ASSUMING THAT EXISTING PERMIT APPLIES)	30	30	0% 09-Jul-21	19-Aug-21	-51	KB91 - 5 DAY						
A60	REVISION OF 100% SANITARY SEWER DRAWINGS (ASSUMING THAT EXISTING PERMIT APPLIES)	30	30	0% 09-Jul-21	19-Aug-21	290	KB91 - 5 DAY						
A62	ADDRESS COMMENTS FROM 100% WATER QUALITY WELLS AND WEST AVENUE PUMP STATION REVIEW	16	16	0% 13-Aug-21	03-Sep-21	-77	KB91 - 5 DAY						
M02											2 1 21 2 1		
A63	DERMAND SEWIND 2ND REVIEW OF WATER QUALITY WELLS AND WEST AVENUE PUMP STATION SUBMITTAL	15	15	0% 06-Sep-21	24-Sep-21	-77	KB91 - 5 DAY						
A63 A64 RE-START	ISSUED FOR CONSTRUCTION (IFC) DRAWINGS SUBMITTAL TO RINCF AND CMB PROJECT RRICANE IRMA	15 5	15 5	0% 06-Sep-21 0% 27-Sep-21	24-Sep-21 01-Oct-21	-77 -77	KB91 - 5 DAY						
A63 A64 RE-START TIA 01 HUI TIA 02 REF	ISSUED FOR CONSTRUCTION (IFC) DRAWINGS SUBMITTAL TO RIMCF AND CMB		0.0	-									
A63 A64 RE-START TIA 01 HUI TIA 02 REF	ISSUED FOR CONSTRUCTION (IFC) DRAWINGS SUBMITTAL TO RINCF AND CMB PROJECT RRICANE IRMA FERRAL TO SUSTAIN ABILITY AND RESILIENCY COMMITTEE FOR REVIEW		0.0	-									
A63 A64 RE-START TIA 01 HUI TIA 02 REF TIA 03 COI DESIGN	ISSUED FOR CONSTRUCTION (IFC) DRAWINGS SUBMITTAL TO RINCF AND CMB PROJECT RRICANE IRMA FERRAL TO SUSTAIN ABILITY AND RESILIENCY COMMITTEE FOR REVIEW		0.0	-									
A63 A64 RE-START TIA 01 HUI TIA 02 REF TIA 03 COI DESIGN	ISSUED FOR CONSTRUCTION (IFC) DRAWINGS SUBMITTAL TO RINCF AND CMB T PROJECT RRICANE IRMA FERRAL TO SUSTAINABILITY AND RESILIENCY COMMITTEE FOR REVIEW MPLETE 10-YEAR DRAINAGE MODELING		0.0	-	01-Oct-21								
A63 A64 RE-START TIA 01 HUI TIA 02 REI TIA 03 COI DESIGN SANITARY	ISSUED FOR CONSTRUCTION (IFC) DRAWINGS SUBMITTAL TO RINCF AND CMB T PROJECT RRICANE IRMA FERRAL TO SUSTAINABILITY AND RESILIENCY COMMITTEE FOR REVIEW MPLETE 10-YEAR DRAINAGE MODELING SEWER DESIGN/PERMITTING	5	0.0	0% 27-Sep-21	01-Oct-21 07-Nov-17 A		KB91 - 5 DAY						
A63 A64 RE-START TIA 01 HUI TIA 02 REF TIA 03 COI DESIGN SANITARY D2-1000	ISSUED FOR CONSTRUCTION (IFC) DRAWINGS SUBMITTAL TO RINCF AND CMB T PROJECT RRICANE IRMA FERRAL TO SUSTAIN ABILITY AND RESILIENCY COMMITTEE FOR REVIEW MPLETE 10-YEAR DRAINAGE MODELING T SEWER DESIGN/PERMITTING SUBMIT 60% PLANS	5	0	0% 27-Sep-21	07-Nov-17 A 07-Dec-17 A		KB91 - 5 DAY						
A63 A64 RE-START TIA 01 HUI TIA 02 REF TIA 03 COI DESIGN SANITARY D2-1000 D2-1020	ISSUED FOR CONSTRUCTION (IFC) DRAWINGS SUBMITTAL TO RINCF AND CMB I PROJECT RRICANE IRMA FERRAL TO SUSTAINABILITY AND RESILIENCY COMMITTEE FOR REVIEW MPLETE 10-YEAR DRAINAGE MODELING SEWER DESIGN/PERMITTING SUBMIT 60% PLANS SUBMIT 90% PLANS	46 7	0	0% 27-Sep-21 100% 31-Jul-17 A 100% 08-Nov-17 A	07-Nov-17 A 07-Dec-17 A 20-Dec-17 A		KB91 - 5 DAY KB91 - TIA01 KB91 - 5 DAY						
A63 A64 RE-START TIA 01 HUI TIA 02 REF TIA 03 COI DESIGN SANITARY D2-1000 D2-1020 D2-1040	ISSUED FOR CONSTRUCTION (IFC) DRAWINGS SUBMITTAL TO RINCF AND CMB I PROJECT RRICANE IRMA FERRAL TO SUSTAINABILITY AND RESILIENCY COMMITTEE FOR REVIEW MPLETE 10-YEAR DRAINAGE MODELING SEWER DESIGN/PERMITTING SUBMIT 60% PLANS SUBMIT 90% PLANS SUBMIT 100% PLANS	46 7 6	0	100% 31-Jul-17 A 100% 08-Nov-17 A 100% 08-Dec-17 A	07-Nov-17 A 07-Dec-17 A 20-Dec-17 A 21-Dec-17 A		KB91 - 5 DAY KB91 - TIA01 KB91 - 5 DAY KB91 - 5 DAY						
A63 A64 RE-START TIA 01 HUI TIA 02 REF TIA 03 COI DESIGN SANITARY D2-1000 D2-1020 D2-1040 D2-1050	ISSUED FOR CONSTRUCTION (IFC) DRAWINGS SUBMITTAL TO RINCF AND CMB T PROJECT RRICANE IRMA FERRAL TO SUSTAINABILITY AND RESILIENCY COMMITTEE FOR REVIEW MPLETE 10-YEAR DRAINAGE MODELING **SEWER DESIGN/PERMITTING** SUBMIT 60% PLANS SUBMIT 90% PLANS SUBMIT 100% PLANS SUBMIT 100% PLANS SUBMIT 100% PLANS	46 7 6 5	0	100% 31-Jul-17 A 100% 08-Nov-17 A 100% 08-Dec-17 A 100% 11-Dec-17 A	07-Nov-17 A 07-Dec-17 A 20-Dec-17 A 21-Dec-17 A 21-Dec-18 A		KB91 - TIA01 KB91 - TIA01 KB91 - 5 DAY KB91 - 5 DAY						
A63 A64 RE-START TIA 01 HUI TIA 02 REF TIA 03 COI DESIGN SANITARY D2-1000 D2-1020 D2-1040 D2-1050 D2-1010	ISSUED FOR CONSTRUCTION (IFC) DRAWINGS SUBMITTAL TO RINCF AND CMB T PROJECT RRICANE IRMA FERRAL TO SUSTAINABILITY AND RESILIENCY COMMITTEE FOR REVIEW MPLETE 10-YEAR DRAINAGE MODELING T SEWER DESIGN/PERMITTING SUBMIT 60% PLANS SUBMIT 90% PLANS SUBMIT 100% PLANS SUBMIT 100% PLANS SUBMIT/APPROVAL MATERIAL CUT SHEETS/PROCURE MATERIALS CMB 60% PLANS REVIEWS	46 7 6 5	0	100% 31-Jul-17 A 100% 08-Nov-17 A 100% 08-Dec-17 A 100% 11-Dec-17 A 100% 08-Nov-17 A	07-Nov-17 A 07-Dec-17 A 20-Dec-17 A 21-Dec-18 A 21-Dec-18 A		KB91 - 5 DAY KB91 - TIA01 KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY						
A63 A64 RE-START TIA 01 HUI TIA 02 REF TIA 03 CO DESIGN SANITARY D2-1000 D2-1020 D2-1040 D2-1050 D2-1010 D2-1030	ISSUED FOR CONSTRUCTION (IFC) DRAWINGS SUBMITTAL TO RINCF AND CMB I PROJECT RRICANE IRMA FERRAL TO SUSTAINABILITY AND RESILIENCY COMMITTEE FOR REVIEW MPLETE 10-YEAR DRAINAGE MODELING I SEWER DESIGN/PERMITTING SUBMIT 60% PLANS SUBMIT 90% PLANS SUBMIT 100% PLANS SUBMIT 100% PLANS SUBMIT/APPROVAL MATERIAL CUT SHEETS/PROCURE MATERIALS CMB 60% PLANS REVIEWS CMB 90% PLANS REVIEWS	46 7 6 5 10	0 0 0 0 0 0 0 0 0	100% 31-Jul-17 A 100% 08-Nov-17 A 100% 08-Dec-17 A 100% 08-Nov-17 A 100% 08-Nov-17 A 100% 08-Dec-17 A	07-Nov-17 A 07-Dec-17 A 20-Dec-17 A 21-Dec-18 A 21-Dec-18 A 21-Dec-18 A		KB91 - TIA01 KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY						
A63 A64 RE-START TIA 01 HUI TIA 02 REF TIA 03 COI DESIGN SANITARY D2-1000 D2-1020 D2-1040 D2-1050 D2-1010 D2-1030 D2-1060	ISSUED FOR CONSTRUCTION (IFC) DRAWINGS SUBMITTAL TO RINCF AND CMB PROJECT RRICANE IRMA FERRAL TO SUSTAINABILITY AND RESILIENCY COMMITTEE FOR REVIEW MPLETE 10-YEAR DRAINAGE MODELING SEWER DESIGN/PERMITTING SUBMIT 60% PLANS SUBMIT 90% PLANS SUBMIT 100% PLANS SUBMIT 100% PLANS SUBMIT/APPROVAL MATERIAL CUT SHEETS/PROCURE MATERIALS CMB 60% PLANS REVIEWS CMB 90% PLANS REVIEWS PROCURE MDWSD/DERM PERMIT/FDOT	46 7 6 5 10 6	0 0 0 0 0 0 0 0 0 0	100% 31-Jul-17 A 100% 08-Nov-17 A 100% 08-Dec-17 A 100% 11-Dec-17 A 100% 08-Nov-17 A 100% 08-Nov-17 A 100% 21-Nov-17 A	07-Nov-17 A 07-Dec-17 A 20-Dec-17 A 21-Dec-18 A 21-Dec-18 A 21-Dec-18 A 29-Mar-19 A		KB91 - TIA01 KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY						
A63 A64 RE-START TIA 01 HUI TIA 02 REF TIA 03 COI DESIGN SANITARY D2-1000 D2-1020 D2-1040 D2-1050 D2-1010 D2-1030 D2-1060 D2-030	ISSUED FOR CONSTRUCTION (IFC) DRAWINGS SUBMITTAL TO RINCF AND CMB I PROJECT RRICANE IRMA FERRAL TO SUSTAIN ABILITY AND RESILIENCY COMMITTEE FOR REVIEW MPLETE 10-YEAR DRAINAGE MODELING I SEWER DESIGN/PERMITTING SUBMIT 60% PLANS SUBMIT 90% PLANS SUBMIT 100% PLANS SUBMIT 100% PLANS SUBMIT/APPROVAL MATERIAL CUT SHEETS/PROCURE MATERIALS CMB 60% PLANS REVIEWS CMB 90% PLANS REVIEWS PROCURE MIDWSD/DERM PERMIT/FDOT RE-START- 90% PLANS - SANTARY SEWER DESIGN - ALL SEGMENTS	46 7 6 5 10 6 10 78	0 0 0 0 0 0 0 0 0 0 0 0	100% 31-Jul-17 A 100% 08-Nov-17 A 100% 08-Dec-17 A 100% 08-Nov-17 A 100% 08-Dec-17 A 100% 08-Dec-17 A 100% 21-Nov-17 A 100% 21-Nov-17 A	07-Nov-17 A 07-Dec-17 A 20-Dec-17 A 21-Dec-18 A 21-Dec-18 A 21-Dec-18 A 29-Mar-19 A 11-Apr-19 A		KB91 - TIA01 KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY						
A63 A64 RE-START TIA 01 HUI TIA 02 REF TIA 03 COI DESIGN SANITARY D2-1000 D2-1020 D2-1040 D2-1050 D2-1010 D2-1030 D2-1060 D2-030 D2-040	ISSUED FOR CONSTRUCTION (IFC) DRAWINGS SUBMITTAL TO RINCF AND CMB I PROJECT RRICANE IRMA FERRAL TO SUSTAIN ABILITY AND RESILIENCY COMMITTEE FOR REVIEW MPLETE 10-YEAR DRAINAGE MODELING I SEWER DESIGN/PERMITTING SUBMIT 60% PLANS SUBMIT 100% PLANS SUBMIT 100% PLANS SUBMIT 100% PLANS SUBMIT/APPROVAL MATERIAL CUT SHEETS/PROCURE MATERIALS CMB 60% PLANS REVIEWS CMB 90% PLANS REVIEWS PROCURE MIDWSD/DERM PERMIT/FDOT RE-START- 90% PLANS - SANTARY SEWER DESIGN - ALL SEGMENTS CMB 90% REVIEWS/APPROVAL - SANTARY SEWER DESIGN - ALL SEGMENTS	46 7 6 5 10 6 10 78	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100% 31-Jul-17 A 100% 08-Nov-17 A 100% 08-Dec-17 A 100% 08-Dec-17 A 100% 08-Dec-17 A 100% 08-Dec-17 A 100% 21-Nov-17 A 100% 21-Dec-18 A 100% 30-Mar-19 A	07-Nov-17 A 07-Dec-17 A 20-Dec-17 A 21-Dec-18 A 21-Dec-18 A 21-Dec-18 A 21-Dec-18 A 29-Mar-19 A 11-Apr-19 A 28-Jun-19 A		KB91 - TIA01 KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 7 DAY KB91 - 7 DAY						
A63 A64 RE-START TIA 01 HUI TIA 02 REF TIA 03 CO DESIGN SANITARY D2-1000 D2-1020 D2-1040 D2-1050 D2-1010 D2-1030 D2-1060 D2-030 D2-040 D2-050	ISSUED FOR CONSTRUCTION (IFC) DRAWINGS SUBMITTAL TO RMCF AND CMB T PROJECT RRICANE IRMA FERRAL TO SUSTAINABILITY AND RESILIENCY COMMITTEE FOR REVIEW MPLETE 10-YEAR DRAINAGE MODELING SEWER DESIGN/PERMITTING SUBMIT 60% PLANS SUBMIT 90% PLANS SUBMIT 100% PLANS SUBMIT 100% PLANS SUBMIT 100% PLANS SUBMIT/APPROVAL MATERIAL CUT SHEETS/PROCURE MATERIALS CMB 60% PLANS REVIEWS CMB 90% PLANS REVIEWS PROCURE MDWSD/DERM PERMIT/FDOT RE-START- 90% PLANS - SANITARY SEWER DESIGN - ALL SEGMENTS CMB 90% REVIEWS/APPROVAL - SANITARY SEWER DESIGN - ALL SEGMENTS SUBMIT / APPROVE MATERIAL CUT SHEETS/PROCURE - SANITARY SEWER DESIGN SUBMIT / APPROVE MATERIAL CUT SHEETS/PROCURE - SANITARY SEWER DESIGN	46 7 6 5 10 6 10 78 10 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100% 31-Jul-17 A 100% 08-Nov-17 A 100% 08-Dec-17 A 100% 08-Dec-17 A 100% 08-Dec-17 A 100% 08-Dec-17 A 100% 21-Nov-17 A 100% 21-Dec-18 A 100% 30-Mar-19 A 100% 12-Apr-19 A	07-Nov-17 A 07-Dec-17 A 20-Dec-17 A 21-Dec-18 A 21-Dec-18 A 21-Dec-18 A 21-Dec-18 A 29-Mar-19 A 11-Apr-19 A 28-Jun-19 A		KB91 - TIA01 KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 7 DAY KB91 - 7 DAY KB91 - 7 DAY						
A63 A64 RE-START TIA 01 HUI TIA 02 REF TIA 03 COI DESIGN SANITARY D2-1000 D2-1020 D2-1040 D2-1050 D2-1010 D2-1030 D2-1060 D2-030 D2-040 D2-050 D2-070 D2-060	ISSUED FOR CONSTRUCTION (IFC) DRAWINGS SUBMITTAL TO RINCF AND CMB T PROJECT RRICANE IRMA FERRAL TO SUSTAINABILITY AND RESILIENCY COMMITTEE FOR REVIEW MPLETE 10-YEAR DRAINAGE MODELING SEWER DESIGN/PERMITTING SUBMIT 60% PLANS SUBMIT 90% PLANS SUBMIT 100% PLANS SUBMIT 100% PLANS SUBMIT/APPROVAL MATERIAL CUT SHEETS/PROCURE MATERIALS CMB 60% PLANS REVIEWS CMB 90% PLANS REVIEWS PROCURE MDWSD/DERM PERMIT/FDOT RE-START- 90% PLANS - SANITARY SEWER DESIGN - ALL SEGMENTS CMB 90% REVIEWS/APPROVAL - SANITARY SEWER DESIGN - ALL SEGMENTS SUBMIT / APPROVE MATERIAL CUT SHEETS/PROCURE - SANITARY SEWER DESIGN PROCURE MDWSD/ DERM PERMIT- ALL SEGMENTS - SANITARY SEWER DESIGN	46 7 6 5 10 6 10 78 10 3	0 0 0 0 0 0 0 0 0	100% 31-Jul-17 A 100% 08-Nov-17 A 100% 08-Dec-17 A 100% 11-Dec-17 A 100% 08-Nov-17 A 100% 21-Nov-17 A 100% 21-Nov-17 A 100% 21-Dec-18 A 100% 30-Mar-19 A 100% 12-Apr-19 A	07-Nov-17 A 07-Dec-17 A 20-Dec-17 A 21-Dec-18 A 21-Dec-18 A 21-Dec-18 A 21-Dec-18 A 29-Mar-19 A 11-Apr-19 A 28-Jun-19 A		KB91 - TIA01 KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 7 DAY KB91 - 7 DAY KB91 - 7 DAY KB91 - 7 DAY						
A63 A64 RE-START TIA 01 HUI TIA 02 REF TIA 03 COI DESIGN SANITARY D2-1000 D2-1020 D2-1040 D2-1050 D2-1010 D2-1030 D2-1060 D2-030 D2-040 D2-050 D2-070 D2-060	ISSUED FOR CONSTRUCTION (IFC) DRAWINGS SUBMITTAL TO RIMCF AND CMB PROJECT RRICANE IRMA FERRAL TO SUSTAINABILITY AND RESILIENCY COMMITTEE FOR REVIEW MPLETE 10-YEAR DRAINAGE MODELING SEWER DESIGN/PERMITTING SUBMIT 60% PLANS SUBMIT 90% PLANS SUBMIT 100% PLANS SUBMIT 100% PLANS SUBMIT/APPROVAL MATERIAL CUT SHEETS/PROCURE MATERIALS CMB 60% PLANS REVIEWS CMB 90% PLANS REVIEWS PROCURE MDWSD/DERM PERMIT/FDOT RE-START-90% PLANS - SANTARY SEWER DESIGN -ALL SEGMENTS SUBMIT /APPROVE MATERIAL CUT SHEETS/PROCURE - SANTARY SEWER DESIGN PROCURE MDWSD / DERM PERMIT-ALL SEGMENTS - SANTARY SEWER DESIGN PROCURE MDWSD / DERM PERMIT-ALL SEGMENTS - SANTARY SEWER DESIGN PROCURE MDWSD / DERM PERMIT-ALL SEGMENTS - SANTARY SEWER DESIGN IFC PLANS - SANTARY SEWER DESIGN -ALL SEGMENTS	46 7 6 5 10 6 10 78 10 3	0 0 0 0 0 0 0 0 0	100% 31-Jul-17 A 100% 08-Nov-17 A 100% 08-Dec-17 A 100% 11-Dec-17 A 100% 08-Nov-17 A 100% 21-Nov-17 A 100% 21-Nov-17 A 100% 21-Dec-18 A 100% 30-Mar-19 A 100% 12-Apr-19 A	07-Nov-17 A 07-Dec-17 A 20-Dec-17 A 21-Dec-18 A 21-Dec-18 A 21-Dec-18 A 21-Dec-18 A 29-Mar-19 A 11-Apr-19 A 28-Jun-19 A		KB91 - TIA01 KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 7 DAY KB91 - 7 DAY KB91 - 7 DAY KB91 - 7 DAY						
A63 A64 RE-START TIA 01 HUI TIA 02 REF TIA 03 COI DESIGN SANITARY D2-1000 D2-1020 D2-1040 D2-1050 D2-1010 D2-1030 D2-1060 D2-030 D2-040 D2-050 D2-070 D2-060 WATER MA	ISSUED FOR CONSTRUCTION (IFC) DRAWINGS SUBMITTAL TO RIMCF AND CMB T PROJECT RRICANE IRMA FERRAL TO SUSTAINABILITY AND RESILIENCY COMMITTEE FOR REVIEW MPLETE 10-YEAR DRAINAGE MODELING Y SEWER DESIGN/PERMITTING SUBMIT 60% PLANS SUBMIT 90% PLANS SUBMIT 90% PLANS SUBMIT/APPROVAL MATERIAL CUT SHEETS/PROCURE MATERIALS CMB 60% PLANS REVIEWS CMB 90% PLANS REVIEWS PROCURE MDWSD/DERM PERMIT/FDOT RE-START- 90% PLANS - SANTARY SEWER DESIGN - ALL SEGMENTS CMB 90% REVIEWS/APPROVAL - SANITARY SEWER DESIGN - ALL SEGMENTS SUBMIT / APPROVE MATERIAL CUT SHEETS/PROCURE - SANITARY SEWER DESIGN PROCURE MDWSD / DERM PERMIT- ALL SEGMENTS - SANITARY SEWER DESIGN IFC PLANS - SANITARY SEWER DESIGN - ALL SEGMENTS AIN DESIGN & PERMITTING	46 7 6 5 10 6 10 78 10 3 30 7	0 0 0 0 0 0 0 0 0 0	100% 31-Jul-17 A 100% 08-Nov-17 A 100% 08-Dec-17 A 100% 08-Dec-17 A 100% 08-Dec-17 A 100% 08-Dec-17 A 100% 21-Nov-17 A 100% 21-Dec-18 A 100% 30-Mar-19 A 100% 12-Apr-19 A 100% 27-Dec-19 A	07-Nov-17 A 07-Dec-17 A 20-Dec-17 A 21-Dec-18 A 21-Dec-18 A 21-Dec-18 A 21-Dec-18 A 29-Mar-19 A 11-Apr-19 A 28-Jun-19 A 26-Dec-19 A		KB91 - TIA01 KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 7 DAY KB91 - 7 DAY KB91 - 7 DAY KB91 - 7 DAY KB91 - 7 DAY KB91 - 7 DAY						
A63 A64 RE-START TIA 01 HUI TIA 02 REI TIA 03 COI DESIGN SANITARY D2-1000 D2-1020 D2-1040 D2-1050 D2-1010 D2-1030 D2-1060 D2-030 D2-040 D2-050 D2-070 D2-060 WATER MA	ISSUED FOR CONSTRUCTION (IFC) DRAWINGS SUBMITTAL TO RINCF AND CMB I PROJECT RRIC ANE IRMA FERRAL TO SUSTAIN ABILITY AND RESILIENCY COMMITTEE FOR REVIEW MPLETE 10-YEAR DRAINAGE MODELING SEWER DESIGN/PERMITTING SUBMIT 60% PLANS SUBMIT 90% PLANS SUBMIT 100% PLANS SUBMIT 100% PLANS SUBMIT 100% PLANS SUBMIT/APPROVAL MATERIAL CUT SHEETS/PROCURE MATERIALS CMB 60% PLANS REVIEWS CMB 90% PLANS REVIEWS PROCURE MDWSD/DERM PERMIT/FDOT RE-START- 90% PLANS - SANTARY SEWER DESIGN - ALL SEGMENTS SUBMIT / APPROVE MATERIAL CUT SHEETS/PROCURE - SANTARY SEWER DESIGN PROCURE MDWSD / DERM PERMIT- ALL SEGMENTS - SANTARY SEWER DESIGN PROCURE MDWSD / DERM PERMIT- ALL SEGMENTS - SANTARY SEWER DESIGN FC PLANS - SANTARY SEWER DESIGN - ALL SEGMENTS AIN DESIGN & PERMITTING NTP 1	46 7 6 5 10 6 10 78 10 3 30 7	0 0 0 0 0 0 0 0 0	100% 31-Jul-17 A 100% 08-Nov-17 A 100% 08-Dec-17 A 100% 08-Dec-17 A 100% 08-Dec-17 A 100% 08-Dec-17 A 100% 21-Nov-17 A 100% 21-Dec-18 A 100% 30-Mar-19 A 100% 12-Apr-19 A 100% 27-Dec-19 A	07-Nov-17 A 07-Dec-17 A 20-Dec-17 A 21-Dec-18 A 21-Dec-18 A 21-Dec-18 A 21-Dec-18 A 29-Mar-19 A 11-Apr-19 A 28-Jun-19 A 27-Dec-19 A		KB91 - TIA01 KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 7 DAY KB91 - 7 DAY KB91 - 7 DAY KB91 - 7 DAY KB91 - 7 DAY KB91 - 7 DAY KB91 - 7 DAY						

Actual Work

Critical Remaining Work

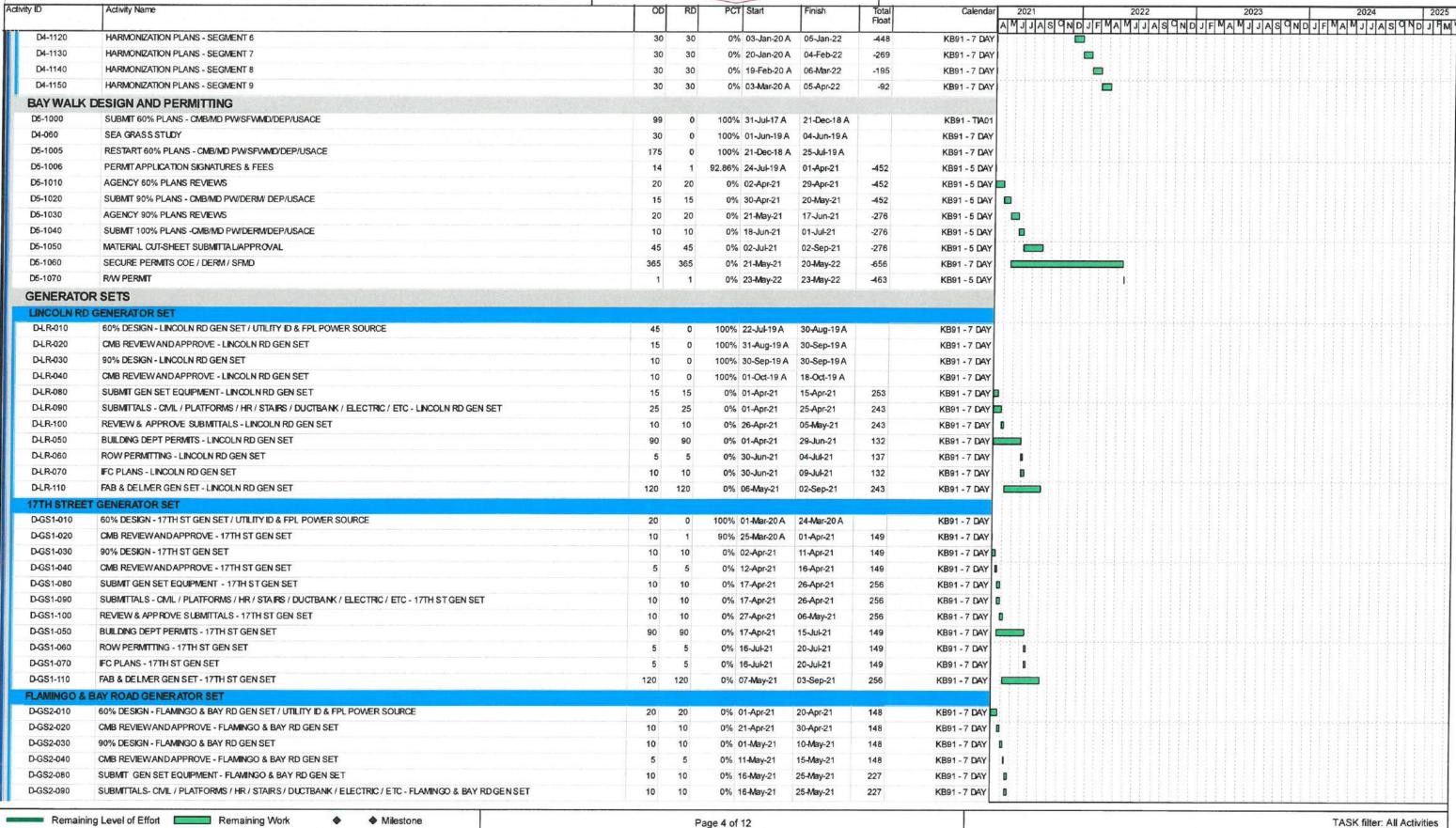


				ERFIELD BEACH, FLORIDA	- AND ADDRESS OF THE PARTY OF T			
vity ID	Activity Name	OD	RD	PCT Start	Finish	Total Float	Calendar	2021 2022 2023 2024 202 AMJJASQNDJFMAMJJASQNDJFMAMJJASQNDJFMAMJJASQNDJF
D1-010	RE-START 60% PLANS - ALL SEGMENTS - WATER MAIN	67	0	100% 21-Dec-18 A	18-Mar-19 A		KB91 - 7 DAY	
D1-020	CMB 60% PLAN REVIEWS - WATER MAIN	10	0	100% 19-Mar-19 A	05-Apr-19 A		KB91 - 7 DAY	
D1-030	RE-START- 90% PLANS - WATER MAIN - ALL SEGMENTS	18	0	100% 08-Apr-19 A	03-May-19 A		KB91 - 7 DAY	
D1-040	CMB 90% REVIEWS/APPROVAL - WATER MAIN - ALL SEGMENTS	5	0	100% 04-May-19 A	17-May-19 A		KB91 - 7 DAY	
D1-050	SUBMIT / APPROVE MATERIAL CUT SHEETS / PROCURE - WATER MAIN	3	0	100% 29-May-19 A	28-Jun-19 A		KB91 - 7 DAY	
D1-070	PROCURE HEALTH DEPT & DERM PERMIT - ALL SEGMENTS - WATER MAIN	30	0	100% 20-May-19 A	16-Jul-19 A		KB91 - 7 DAY	
D1-060	IFC PLANS - WATER MAIN - ALL SEGMENTS	5	0	100% 17-Jul-19 A	31-Jul-19 A		KB91 - 7 DAY	
LINCOLN F	ROAD PUMP STATION DESIGN/PERMITTING							
D3-1000	SUBMIT 60% PLANS - CMB/MD PW/SFWMD/DEP	46	0	100% 31-Jul-17 A	07-Nov-17 A		KB91 - TIA01	
A27	SUBMIT 90% PLANS - CMB/MD PW/DERW/ DEP	10	0	100% 07-Nov-17 A	19-Dec-17 A		KB91 - 5 DAY	
D3-1010	AGENCY 60% PLANS REVIEWS	10	0	100% 08-Nov-17 A	21-Dec-18 A		KB91 - 5 DAY	
D3-010	RE-START 60% PLANS - LINCOLN RD PUMP STATION & SEA WALL	131	0	100% 21-Dec-18 A	29-Aug-19 A		KB91 - 7 DAY	
D3-020	CMB 60% PLAN REVIEWS - LINCOLN RD PUMP STATION & SEA WALL	10	0	100% 30-Aug-19 A	30-Sep-19 A		KB91 - 7 DAY	
D3-040	RE-START- 90% PLANS - LINCOLN RD PUMP STATION & SEA WALL	30	0	100% 30-Sep-19 A	30-Sep-19 A		KB91 - 7 DAY	
D3-050	CMB 90% REVIEWS / APPROVAL - LINCOLN RD PUMP STATION & SEA WALL	10	0	100% 01-Oct-19 A	18-Oct-19 A		KB91 - 7 DAY	
D3-090	CMB ROW PERMIT - LINCOLN RD PUMP STATION & SEA WALL	2	2	0% 01-Apr-21	02-Apr-21	75	KB91 - 7 DAY	
D3-070	PERMITS - DERM / CLASS 1 / CLASS 2/BUILDING DEPT - LINCOLN RD PUMP STATION & SEA WALL	45	45	0% 01-Apr-21	15-May-21	39	KB91 - 7 DAY	
D3-030	UTILITY RELOCATION ID W/ PRIVATE FIRMS - LINCOLN RD PUMP STATION & SEA WALL	60	60	0% 01-Apr-21	30-May-21	4	KB91 - 7 DAY	
D3-060	IFC PLANS - LINCOLN RD PUMP STATION & SEA WALL	21	21	0% 31-May-21	20-Jun-21	-4	KB91 - 7 DAY	
D3-100	FPL POWER DELIVERY- EASEMENT/DESIGN - LINCOLN RD PUMP STATION & SEA WALL	120	108	10% 18-Feb-20 A	17-Jul-21	165	KB91 - 7 DAY	
ROADWAY	/DRAINAGE/STREET LIGHT/SIGNAL/LANDSCAPING DESIGN/PERMITTING							
D4-1000	PREPARE DOCUMENTS FOR COMMUNITY DESIGN REVIEW MTG.	14	0	100% 31-Jul-17 A	25-Oct-17 A	22/6/11/02	KB91 - TIA01	
D4-1010	CITY REVIEW DOCUMENTS FOR COMMUNITY DESIGN REVIEW MTG.	10	0	100% 26-Oct-17 A	01-Nov-17 A		KB91 - 5 DAY	
D4-1020	FINAL DOCUMENTS FOR COMMUNITY DESIGN REVIEWMTG.	5	0	100% 02-Nov-17 A	08-Nov-17 A		KB91 - 5 DAY	
D4-1040	CITY REVIEW FINAL DOCUMENTS FOR COMMUNITY DESIGN REVIEW MTG.	5	0	100% 09-Nov-17 A			KB91 - 5 DAY	
D4-1050	SCHEDULE AND ATTEND COMMUNITY DESIGN REVIEW MTG.	5	0	100% 09-Nov-17 A			KB91 - 5 DAY	
D4-1052	CMB PROVIDES DOCUMENTATION OF COMMUNITY INPUT	5	0	100% 15-Nov-17 A			KB91 - 7 DAY	
D4-1060	COMPILE AND ADDRESS PUBLIC INPUT	6	0	100% 01-Dec-17 A			KB91 - 5 DAY	
D4-1061	PREPARE & SUBMIT HARMONIZATION DOCUMENTS	40	0	100% 12-Oct-17 A	200000000000000000000000000000000000000		KB91 - 5 DAY	
D4-1030	UTILITY COORDINATION/IDENTIFICATION/SCHEDULE DEVELOPMENT	40	0	100% 12-Oct-17 A	170.000.000.000.000.000.000.000		KB91 - TA01	
D4-1070	SUBMIT DOCUMENTS FOR COMMISSION APPROVAL	7	0	100% 08-Dec-17 A	21-Dec-18 A	-	KB91 - 5 DAY	
D4-1062	REVIEW & APP ROVE HARMONIZATION DOCUMENTS	14	0	100% 21-Dec-17 A	21-Dec-18 A		KB91 - 7 DAY	
D4-010	AECOM CERTIFIED DRAINAGE REPORT	60	0	100% 21-Dec-18 A	27-Feb-19 A		KB91 - 7 DAY	
D4-030	ROW ENCROACHMENT PLANS - ALL SEGMENTS	90	0	100% 21-Dec-18 A	THE PROPERTY OF STATE		KB91 - 7 DAY	
D4-070	RE-START 60% PLANS - ALL SEGMENTS ROADWAY / DRAINAGE / STREET LIGHTS / SIGNAL IZATION	23	0	100% 03-Aug-19 A	The second transfer of the second second		KB91 - 7 DAY	
D4-020	MEET W/ SPWD - MODEL PARAMETERS ESTABLISHED AND APPROVED	10	0	100% 15-Jul-19 A			KB91 - 7 DAY	
D4-080	CMB 60% PLAN REVIEWS - ALL SEGMENTS ROADWAY / DRAINAGE / STREET LIGHTS / SIGNALIZATION	5	0	100% 06-Sep-19 A			KB91 - 7 DAY	
D4-090	RE-START- 90% PLANS - ALL SEGMENTS ROADWAY / DRAINAGE / STREET LIGHTS / SIGNALIZATION	25	0	100% 02-Sep-19 A			KB91 - 7 DAY	
D4-100	CMB 90% REVIEWS / APPROVAL - ALL SEGMENTS ROADWAY / DRAINAGE / STREET LIGHTS / SIGNALIZATION	5	1	80% 01-Oct-19 A	The state of the s	-784	KB91 - 7 DAY	
D4-120	IFC PLANS -ALL SEGMENTS ROADWAY / DRAINAGE / STREET LIGHTS / SIGNALIZATION	5	5	0% 02-Apr-21	06-Apr-21	-784	KB91 - 7 DAY	
D4-110	SUBMIT / APPROVE MATERIAL CUT SHEETS / PROCURE	10	10	0% 01-Apr-21	10-Apr-21	-788	KB91 - 7 DAY	
D4-050	PERMIT RER CLASS 2 / RER CLASS 5 DEVIATERING PERMIT		90	0% 01-Apr-21	29-Jun-21	-868	KB91 - 7 DAY	
HARMONIZA	TION PLANS			(30)				
D4-040	HARMONIZATION PLANS - SEGMENT 1	130	130	0% 21-Dec-18 A	08-Aug-21	-970	KB91 - 7 DAY	
D4-1080	HARMONIZATION PLANS - SEGMENT 2	30	30	0% 02-Sep-19 A	171-911031-9111-3111	-952	KB91 - 7 DAY	
D4-1090	HARMONIZATION PLANS - SEGMENT 3		30	0% 27-Sep-19 A	Deballed October	-745	KB91 - 7 DAY	
D4-1100	HARMONIZATION PLANS - SEGMENT 4	30	30	0% 13-Nov-19 A		-597	KB91 - 7 DAY	
D4-1110	HARMONIZATION PLANS - SEGMENT 5	30	30	0% 16-Dec-19 A		-532	KB91 - 7 DAY	

Actual Work

Critical Remaining Work





Remaining Level of Effort Remaining Work

Actual Work

Critical Remaining Work

♦ Milestone



RUN DATE:19-Apr-21 DATA DATE:01-Apr-21

TASK filter: All Activities

	1		DE	ERFIELD BEACH, FLORIDA		1							
ivity ID	Activity Name	OD	RD	PCT Start	Finish	Total Float	Calendar	2021 AMJJAS		JJASOND	2023 J F M A M J J A S O N	2024 DJFMAMJJAS	I QND J
D-GS2-100	REVIEW & APPROVE SUBMITTALS - FLAMINGO & BAY RD GEN SET	10	10	0% 26-May-21	04-Jun-21	227	KB91 - 7 DAY	0					-1-1-1
D-GS2-050	BUILDING DEPT PERMITS - FLAMINGO & BAY RD GEN SET	90	90	0% 16-May-21	13-Aug-21	148	KB91 - 7 DAY						
D-GS2-060	ROW PERMITTING - FLAMINGO & BAY RD GEN SET	5	5	0% 14-Aug-21	18-Aug-21	148	KB91 - 7 DAY	1					
D-GS2-070	IFC PLANS - FLAMINGO & BAY RD GEN SET	5	5	0% 14-Aug-21	18-Aug-21	148	KB91 - 7 DAY	1					
D-GS2-110	FAB & DELMER GEN SET - FLAMINGO & BAY RD GEN SET	120	120	0% 05-Jun-21	02-Oct-21	227	KB91 - 7 DAY						
14TH ST PUR	MP STATION - 2 GENERATOR SETS												
D-GS3-010	60% DESIGN - 14TH ST PUMP STATION GEN SETS / UTILITY ID & FPL POWER SOURCE	30	0	100% 01-Mar-20 A	24-Mar-20 A		KB91 - 7 DAY						
D-GS3-020	CMB REVIEW AND APPROVE - 14TH ST PUMP STATION GEN SETS	10	1	90% 25-Mar-20 A	21-Apr-21	211	KB91 - 7 DAY	ri i i i i i i					
D-GS3-030	90% DESIGN - 14TH ST PUMP STATION GEN SETS	15	15	0% 22-Apr-21	06-May-21	211	KB91 - 7 DAY						
D-GS3-040	CMB REVIEWAND APPROVE - 14TH ST PUMP STATION GEN SETS	7	7	0% 07-May-21	13-May-21	211	KB91 - 7 DAY	0					
D-GS3-080	SUBMIT GEN SET EQUIPMENT - 14TH ST PUMP STATION GEN SETS	15	15	0% 14-May-21	28-May-21	224	KB91 - 7 DAY	0	11111111	Tittiti			
D-GS3-090	SUBMITTALS- CMIL / PLATFORMS / HR / STAIRS / DUCTBANK / ELECTRIC / ETC - 14TH ST PUMP STATION GEN SETS	15	15	0% 14-May-21	28-May-21	224	KB91 - 7 DAY	0					
D-GS3-100	REVIEW & APPROVE SUBMITTALS - 14TH ST PUMP STATION GEN SETS	10	10	0% 29-May-21	07-Jun-21	224	KB91 - 7 DAY	0					
D-GS3-050	BUILDING DEPT PERMITS - 14TH ST PUMP STATION GEN SETS	90	90	0% 14-May-21	11-Aug-21	211	KB91 - 7 DAY						
D-GS3-060	ROW PERMITTING - 14TH ST PUMP STATION GEN SETS	5	5	0% 12-Aug-21	16-Aug-21	211	KB91 - 7 DAY	1					
D-GS3-070	IFC PLANS - 14TH ST PUMP STATION GEN SETS	5	5	0% 12-Aug-21	16-Aug-21	211	KB91 - 7 DAY			1-1-1-1-1-1-1		1111111111	
D-GS3-110	FAB & DELIVER DELIVER GEN SETS - 14TH ST PUMP STATION GEN SETS	120	120	0% 08-Jun-21	05-Oct-21	224	KB91 - 7 DAY						
	TION (NTP 2)												
	1671 WEST AVENUE WTS												
PROCUREMEN	IVENUE WTS CONSTRUCTION/SEA WALL RECONSTRUCTION (SC #2)						SEA GLERO HILLER						
C3-0020	DELIVERY OF CONTECH INTERNAL COMPONENTS	90	90	0% 09-Jul-21	06-Oct-21	237	KB91 - 7 DAY						
C3-0000	PANEL DELIVERY	100	100	0% 09-Jul-21	16-Oct-21	102	KB91 - 7 DAY						111
C3-0010	PUMP DELIVERY	130	130	0% 09-Jul-21	15-Nov-21	125	KB91 - 7 DAY						
CONSTRUCTIO					Table Sheet		SECTION OF THE SECTIO						
C3-1105	HARMONIZATION PLANS & LICENSE AGREEMENT SIGNED OFF BY RESIDENTS - 100% - 1671 WEST AVENUE WTS	41	41	0% 09-Aug-21	04-Oct-21	-669	KB91 - 5 DAY						
C3-1110	ELECTRICAL POWER SERVICE AND PAD CONSTRUCTION (FPL)	60	60	0% 19-Jul-21	08-Oct-21	KB91 -	KB91 - 5 DAY						
C3-1000	MOB / MOT / MATERIAL DELIVERY	5	5	0% 05-Oct-21	11-Oct-21	-78	KB91 - 5 DAY						
C3-1010	SURVEY LAY OUT	5	5	0% 05-Oct-21	11-Oct-21	-78	KB91 - 5 DAY						
C3-1020	CELECTA /E DEMOL (TICAL / DA DIVINO L CE DEMOL/AL O A DEL COATTONIO			00/ 40 0 4 04	19-Oct-21	-78	KB91 - 5 DAY						
00-1020	SELECTIVE DEMOLITION / PARKING LOT REMOVALS & RELOCATIONS	6	6	0% 12-Oct-21	15-00-21	P. Comment			4		the character of the second control of the s		
C3-1030	SET-UP BY-PASS PUMP SYSTEM AND DEWATERING SYSTEM	6	6 4	0% 12-Oct-21 0% 20-Oct-21	25-Oct-21	-47	KB91 - 5 DAY						
5200 Halloonia		6 4 20	6 4 20			-47 -78	KB91 - 5 DAY KB91 - 5 DAY	i i					
C3-1030	SET-UP BY-PASS PUMP SYSTEM AND DEWATERING SYSTEM	6 4 20 15	6 4 20 15	0% 20-Oct-21 0% 20-Oct-21	25-Oct-21	882		:					
C3-1030 C3-1120	SET-UP BY-PASS PUMP SYSTEM AND DEWATERING SYSTEM RECONSTRUCT 17TH ST SEAWALL / CAP	17.00		0% 20-Oct-21 0% 20-Oct-21	25-Oct-21 16-Nov-21	-78	KB91 - 5 DAY						
C3-1030 C3-1120 C3-1100	SET-UP BY-PASS PUMP SYSTEM AND DEWATERING SYSTEM RECONSTRUCT 17TH ST SEAWALL / CAP INSTALL DISSIPATOR STRUCTURE AND PIPING / NEW COFFER DAM	15	15	0% 20-Oct-21 0% 20-Oct-21 0% 17-Nov-21	25-Oct-21 16-Nov-21 07-Dec-21	-78 -78	KB91 - 5 DAY KB91 - 5 DAY	:					
C3-1030 C3-1120 C3-1100 C3-1040	SET-UP BY-PASS PUMP SYSTEM AND DEWATERING SYSTEM RECONSTRUCT 17TH ST SEAWALL / CAP INSTALL DISSIPATOR STRUCTURE AND PIPING / NEW COFFER DAM INSTALL SHEETING AT PARKING LOT	15 15	15 15	0% 20-Oct-21 0% 20-Oct-21 0% 17-Nov-21 0% 08-Dec-21	25-Oct-21 16-Nov-21 07-Dec-21 28-Dec-21	-78 -78 -78	KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY						
C3-1030 C3-1120 C3-1100 C3-1040 A1080	SET-UP BY-PASS PUMP SYSTEM AND DEWATERING SYSTEM RECONSTRUCT 17TH ST SEAWALL / CAP INSTALL DISSIPATOR STRUCTURE AND PIPING / NEW COFFER DAM INSTALL SHEETING AT PARKING LOT SEGMENT 1 - DRAINAGE	15 15	15 15	0% 20-Oct-21 0% 20-Oct-21 0% 17-Nov-21 0% 08-Dec-21 0% 12-Oct-21	25-Oct-21 16-Nov-21 07-Dec-21 28-Dec-21 03-Jan-22	-78 -78 -78 94	KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY						
C3-1030 C3-1120 C3-1100 C3-1040 A1080 C3-1050	SET-UP BY-PASS PUMP SYSTEM AND DEWATERING SYSTEM RECONSTRUCT 17TH ST SEAWALL / CAP INSTALL DISSIPATOR STRUCTURE AND PIPING / NEW COFFER DAM INSTALL SHEETING AT PARKING LOT SEGMENT 1 - DRAINAGE EXCAVATE SHAFT	15 15	15 15	0% 20-Oct-21 0% 20-Oct-21 0% 17-Nov-21 0% 08-Dec-21 0% 12-Oct-21 0% 29-Dec-21	25-Oct-21 16-Nov-21 07-Dec-21 28-Dec-21 03-Jan-22 06-Jan-22	-78 -78 -78 94 -78	KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY						
C3-1030 C3-1120 C3-1100 C3-1040 A1080 C3-1050 C3-1060	SET-UP BY-PASS PUMP SYSTEM AND DEWATERING SYSTEM RECONSTRUCT 17TH ST SEAWALL / CAP INSTALL DISSIPATOR STRUCTURE AND PIPING / NEW COFFER DAM INSTALL SHEETING AT PARKING LOT SEGMENT 1 - DRAINAGE EXCAVATE SHAFT POUR TREMIE AND DEWATER SHAFT	15 15 60 7 5	15 15 60 7 5	0% 20-Oct-21 0% 20-Oct-21 0% 17-Nov-21 0% 08-Dec-21 0% 12-Oct-21 0% 29-Dec-21 0% 07-Jan-22	25-Oct-21 16-Nov-21 07-Dec-21 28-Dec-21 03-Jan-22 06-Jan-22 13-Jan-22	-78 -78 -78 -94 -78	KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY						
C3-1030 C3-1120 C3-1100 C3-1040 A1080 C3-1050 C3-1060 C3-1070	SET-UP BY-PASS PUMP SYSTEM AND DEWATERING SYSTEM RECONSTRUCT 17TH ST SEAWALL / CAP INSTALL DISSIPATOR STRUCTURE AND PIPING / NEW COFFER DAM INSTALL SHEETING AT PARKING LOT SEGMENT 1 - DRAINAGE EXCAVATE SHAFT POUR TREMIE AND DEWATER SHAFT INSTALL POLLUTION CONTROL, JUNCTION, BAR SCREENAND WET WELL STRUCTURES AND BACKFILL	15 15 60 7 5	15 15 60 7 5 63	0% 20-Oct-21 0% 20-Oct-21 0% 17-Nov-21 0% 08-Dec-21 0% 12-Oct-21 0% 29-Dec-21 0% 07-Jan-22 0% 14-Jan-22	25-Oct-21 16-Nov-21 07-Dec-21 28-Dec-21 03-Jan-22 06-Jan-22 13-Jan-22 12-Apr-22	-78 -78 -78 -94 -78 -78	KB91 - 5 DAY KB91 - 5 DAY						
C3-1030 C3-1120 C3-1100 C3-1040 A1080 C3-1050 C3-1060 C3-1070 C3-1080 C3-1130	SET-UP BY-PASS PUMP SYSTEM AND DEWATERING SYSTEM RECONSTRUCT 17TH ST SEAWALL / CAP INSTALL DISSIPATOR STRUCTURE AND PIPING / NEW COFFER DAM INSTALL SHEETING AT PARKING LOT SEGMENT 1 - DRAINAGE EXCAVATE SHAFT POUR TREMIE AND DEWATER SHAFT INSTALL POLLUTION CONTROL, JUNCTION, BAR SCREEN AND WET WELL STRUCTURES AND BACKFILL REMOVAL OF SHEETING	15 15 60 7 5 63 4	15 15 60 7 5 63 4	0% 20-Oct-21 0% 20-Oct-21 0% 17-Nov-21 0% 08-Dec-21 0% 12-Oct-21 0% 29-Dec-21 0% 07-Jan-22 0% 14-Jan-22 0% 13-Apr-22	25-Oct-21 16-Nov-21 07-Dec-21 28-Dec-21 03-Jan-22 06-Jan-22 13-Jan-22 12-Apr-22	-78 -78 -78 -94 -78 -78	KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY						
C3-1030 C3-1120 C3-1100 C3-1040 A1080 C3-1050 C3-1060 C3-1070 C3-1080 C3-1130	SET-UP BY-PASS PUMP SYSTEM AND DEWATERING SYSTEM RECONSTRUCT 17TH ST SEAWALL / CAP INSTALL DISSIPATOR STRUCTURE AND PIPING / NEW COFFER DAM INSTALL SHEETING AT PARKING LOT SEGMENT 1 - DRAINAGE EXCAVATE SHAFT POUR TREMIE AND DEWATER SHAFT INSTALL POLLUTION CONTROL, JUNCTION, BAR SCREEN AND WET WELL STRUCTURES AND BACKFILL REMOVAL OF SHEETING BACKFILL, RESTORE AND CLEAN UP	15 15 60 7 5 63 4 6	15 15 60 7 5 63 4 6	0% 20-Oct-21 0% 20-Oct-21 0% 17-Nov-21 0% 08-Dec-21 0% 12-Oct-21 0% 29-Dec-21 0% 07-Jan-22 0% 14-Jan-22 0% 19-Apr-22	25-Oct-21 16-Nov-21 07-Dec-21 28-Dec-21 03-Jan-22 06-Jan-22 13-Jan-22 12-Apr-22 18-Apr-22 26-Apr-22	-78 -78 -78 94 -78 -78 -78 -78	KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY						
C3-1030 C3-1120 C3-1100 C3-1040 A1080 C3-1050 C3-1060 C3-1070 C3-1080 C3-1130 C2-SEG1-1000	SET-UP BY-PASS PUMP SYSTEM AND DEWATERING SYSTEM RECONSTRUCT 17TH ST SEAWALL / CAP INSTALL DISSIPATOR STRUCTURE AND PIPING / NEW COFFER DAM INSTALL SHEETING AT PARKING LOT SEGMENT 1 - DRAINAGE EXCAVATE SHAFT POUR TREMIE AND DEWATER SHAFT INSTALL POLLUTION CONTROL, JUNCTION, BAR SCREEN AND WET WELL STRUCTURES AND BACKFILL REMOVAL OF SHEETING BACKFILL, RESTORE AND CLEAN UP PANEL PLATFORM FOUNDATION & ELEVATED STRUCTURE	15 15 60 7 5 63 4 6	15 15 60 7 5 63 4 6	0% 20-Oct-21 0% 20-Oct-21 0% 17-Nov-21 0% 08-Dec-21 0% 29-Dec-21 0% 29-Dec-21 0% 07-Jan-22 0% 14-Jan-22 0% 19-Apr-22 0% 19-Apr-22	25-Oct-21 16-Nov-21 07-Dec-21 28-Dec-21 03-Jan-22 06-Jan-22 13-Jan-22 12-Apr-22 18-Apr-22 26-Apr-22	-78 -78 -78 94 -78 -78 -78 -78	KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY						
C3-1030 C3-1120 C3-1100 C3-1040 A1080 C3-1050 C3-1060 C3-1070 C3-1130 C2-SEG1-1000 C3-1150 A1070	SET-UP BY-PASS PUMP SYSTEM AND DEWATERING SYSTEM RECONSTRUCT 17TH ST SEAWALL / CAP INSTALL DISSIPATOR STRUCTURE AND PIPING / NEW COFFER DAM INSTALL SHEETING AT PARKING LOT SEGMENT 1 - DRAINAGE EXCAVATE SHAFT POUR TREMIE AND DEWATER SHAFT INSTALL POLLUTION CONTROL, JUNCTION, BAR SCREEN AND WET WELL STRUCTURES AND BACKFILL REMOVAL OF SHEETING BACKFILL, RESTORE AND CLEAN UP PANEL PLATFORM FOUNDATION & ELEVATED STRUCTURE PUMP AND FLOAT INSTALLATION	15 15 60 7 5 63 4 6 20	15 15 60 7 5 63 4 6 20 30	0% 20-Oct-21 0% 20-Oct-21 0% 17-Nov-21 0% 08-Dec-21 0% 12-Oct-21 0% 29-Dec-21 0% 07-Jan-22 0% 13-Apr-22 0% 13-Apr-22 0% 19-Apr-22 0% 13-Apr-22 0% 13-Apr-22	25-Oct-21 16-Nov-21 07-Dec-21 28-Dec-21 03-Jan-22 06-Jan-22 13-Jan-22 12-Apr-22 18-Apr-22 26-Apr-22 16-May-22 24-May-22 25-May-22	-78 -78 -78 94 -78 -78 -78 -78	KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY						
C3-1030 C3-1120 C3-1100 C3-1040 A1080 C3-1050 C3-1060 C3-1070 C3-1080 C3-1130 C2-SEG1-1000 C3-1150 A1070	SET-UP BY-PASS PUMP SYSTEM AND DEWATERING SYSTEM RECONSTRUCT 17TH ST SEAWALL / CAP INSTALL DISSIPATOR STRUCTURE AND PIPING / NEW COFFER DAM INSTALL SHEETING AT PARKING LOT SEGMENT 1 - DRAINAGE EXCAVATE SHAFT POUR TREMIE AND DEWATER SHAFT INSTALL POLLUTION CONTROL, JUNCTION, BAR SCREEN AND WET WELL STRUCTURES AND BACKFILL REMOVAL OF SHEETING BACKFILL, RESTORE AND CLEAN UP PANEL PLATFORM FOUNDATION & ELEVATED STRUCTURE PUMP AND FLOAT INSTALLATION WATER QUALITY WELL AT WTS (1 EA)	15 15 60 7 5 63 4 6 20 30 21	15 15 60 7 5 63 4 6 20 30 21	0% 20-Oct-21 0% 20-Oct-21 0% 17-Nov-21 0% 08-Dec-21 0% 12-Oct-21 0% 29-Dec-21 0% 07-Jan-22 0% 14-Jan-22 0% 13-Apr-22 0% 19-Apr-22 0% 13-Apr-22 0% 27-Apr-22 0% 27-Apr-22 0% 17-May-22	25-Oct-21 16-Nov-21 07-Dec-21 28-Dec-21 03-Jan-22 06-Jan-22 13-Jan-22 12-Apr-22 18-Apr-22 26-Apr-22 16-May-22 24-May-22 25-May-22 30-May-22	-78 -78 -78 -94 -78 -78 -78 -78 -78 -78 -78 -78 -68	KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY						
C3-1030 C3-1120 C3-1100 C3-1040 A1080 C3-1050 C3-1060 C3-1070 C3-1130 C2-SEG1-1000 C3-1150 A1070 C2-SEG1-1010 C3-1140	SET-UP BY-PASS PUMP SYSTEM AND DEWATERING SYSTEM RECONSTRUCT 17TH ST SEAWALL / CAP INSTALL DISSIPATOR STRUCTURE AND PIPING / NEW COFFER DAM INSTALL SHEETING AT PARKING LOT SEGMENT 1 - DRAINAGE EXCAVATE SHAFT POUR TREMIE AND DEWATER SHAFT INSTALL POLLUTION CONTROL, JUNCTION, BAR SCREEN AND WET WELL STRUCTURES AND BACKFILL REMOVAL OF SHEETING BACKFILL, RESTORE AND CLEAN UP PANEL PLATFORM FOUNDATION & ELEVATED STRUCTURE PUMP AND FLOAT INSTALLATION WATER QUALITY WELL AT WTS (1 EA) DUCTBANK FROM PLATFORM TO PUMPS	15 15 60 7 5 63 4 6 20 30 21 10	15 15 60 7 5 63 4 6 20 30 21 10 20	0% 20-Oct-21 0% 20-Oct-21 0% 17-Nov-21 0% 08-Dec-21 0% 29-Dec-21 0% 07-Jan-22 0% 14-Jan-22 0% 13-Apr-22 0% 19-Apr-22 0% 19-Apr-22 0% 13-Apr-22 0% 13-Apr-22 0% 17-May-22 0% 17-May-22	25-Oct-21 16-Nov-21 07-Dec-21 28-Dec-21 03-Jan-22 06-Jan-22 13-Jan-22 12-Apr-22 18-Apr-22 26-Apr-22 16-May-22 24-May-22 25-May-22 30-May-22 13-Jun-22	-78 -78 -78 -94 -78 -78 -78 -78 -78 -78 -8 -17 -8 -68 -78	KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY						
C3-1030 C3-1120 C3-1100 C3-1040 A1080 C3-1050 C3-1060 C3-1070 C3-1130 C2-SEG1-1000 C3-1150 A1070 C2-SEG1-1010 C3-1140 C2-SEG1-1020	SET-UP BY-PASS PUMP SYSTEM AND DEWATERING SYSTEM RECONSTRUCT 17TH ST SEAWALL / CAP INSTALL DISSIPATOR STRUCTURE AND PIPING / NEW COFFER DAM INSTALL SHEETING AT PARKING LOT SEGMENT 1 - DRAINAGE EXCAVATE SHAFT POUR TREMIE AND DEWATER SHAFT INSTALL POLLUTION CONTROL, JUNCTION, BAR SCREEN AND WET WELL STRUCTURES AND BACKFILL REMOVAL OF SHEETING BACKFILL, RESTORE AND CLEAN UP PANEL PLATFORM FOUNDATION & ELEVATED STRUCTURE PUMP AND FLOAT INSTALLATION WATER QUALITY WELL AT WTS (1 EA) DUCTBANK FROM PLATFORM TO PUMPS PANEL INSTALLATION	15 15 60 7 5 63 4 6 20 30 21	15 15 60 7 5 63 4 6 20 30 21	0% 20-Oct-21 0% 20-Oct-21 0% 17-Nov-21 0% 08-Dec-21 0% 12-Oct-21 0% 29-Dec-21 0% 07-Jan-22 0% 14-Jan-22 0% 13-Apr-22 0% 19-Apr-22 0% 13-Apr-22 0% 27-Apr-22 0% 27-Apr-22 0% 17-May-22	25-Oct-21 16-Nov-21 07-Dec-21 28-Dec-21 03-Jan-22 06-Jan-22 13-Jan-22 12-Apr-22 18-Apr-22 26-Apr-22 16-May-22 24-May-22 25-May-22 30-May-22	-78 -78 -78 -94 -78 -78 -78 -78 -78 -78 -78 -78 -68	KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY KB91 - 5 DAY						

Page 5 of 12

Remaining Level of Effort Remaining Work

Actual Work

Critical Remaining Work

♦ Milestone



RUN DATE:19-Apr-21 DATA DATE:01-Apr-21

TASK filter: All Activities

				ERFIELD BEACH, FLORIUM	4			
ctivity ID	Activity Name	OD	RD	PCT Start	Finish	Total Float	Calendar	2021 2022 2023 2024 20 AMJJASQNDJFMAMJJASQNDJFMAMJJASQNDJFMAMJJASQNDJF
C2-SEG1-1100	PARKING LOT RECONSTRUCTION	10	10	0% 18-Aug-22	31-Aug-22	-78	KB91 - 5 DAY	
C2-SEG1-1110	SEGMENT 1 SUBSTANTIAL COMPLETION	0	0	0%	31-Aug-22	-78	KB91 - 5 DAY	
C3-1160	PUMP STATION TESTING / FUNCTIONAL CHECK-OUT	10	10	0% 18-Aug-22	31-Aug-22	-78	KB91 - 5 DAY	
C3-1170	PUMP STATION START-UP AND COMMISSIONING	5	5	0% 25-Aug-22	31-Aug-22	-61	KB91 - 5 DAY	
C2-SEG1-1060	PUMP STATION TRAINING	2	2	0% 01-Sep-22	02-Sep-22	-78	KB91 - 5 DAY	
C2-SEG1-1070	FINAL INSPECTION OPERATIONS	10	10	0% 05-Sep-22	16-Sep-22	-78	KB91 - 5 DAY	
C2-SEG1-1080	PLACE IN OPERATION	2	2	0% 19-Sep-22	20-Sep-22	-78	KB91 - 5 DAY	
C3-1180	PUMP STATION PUNCH LIST DEVELOPMENT	3	3	0% 21-Sep-22	23-Sep-22	-78	KB91 - 5 DAY	
C3-1190	PUNCHLIST COMPLETION	10	10	0% 26-Sep-22	07-Oct-22	-78	KB91 - 5 DAY	0
SEGMENT 2	CONSTRUCTION							
C2-SEG2-1000	HARMONIZATION PLANS & LICENSE AGREEMENT SIGNED OFF BY RESIDENTS - 100% - SEG 2	10	10	0% 21-Sep-21	04-Oct-21	-669	KB91 - 5 DAY	
C2-SEG2-1010	MOBILIZE & MATERIAL DELIVERY - SEG 2	2	2	0% 05-Oct-21	06-Oct-21	-669	KB91 - 5 DAY	
C2-SEG2-1040	ESTABLISH MOT - SEG 2	1	1	0% 07-Oct-21	07-Oct-21	-669	KB91 - 5 DAY	
C2-SEG2-1020	SURVEY LAY-OUT - SEG 2	2	2	0% 07-Oct-21	08-Oct-21	-669	KB91 - 5 DAY	
C2-SEG2-1030	CONFIRM ENCROACHMENTS ARE REMOVED - SEG 2	1	1	0% 11-Oct-21	11-Oct-21	-669	KB91 - 5 DAY	
C2-SEG2-1050	PROTECT EXISTING TREES TO REMAIN - SEG 2	2	2	0% 08-Oct-21	11-Oct-21	-669	KB91 - 5 DAY	
C2-SEG2-1060	DEMO CURB / GUTTER / SIDEWALK - SEG 2	4	4	0% 12-Oct-21	15-Oct-21	-669	KB91 - 5 DAY	
C2-SEG2-1150	ESTABLISH ELECTRIC SERVICE POINTS - SEG 2	5	5	0% 11-Oct-21	15-Oct-21	-551	KB91 - 5 DAY	
C2-SEG2-1070	ESTABLISH PEDESTRIAN ACCESS - SEG 2	3	3	0% 18-Oct-21	20-Oct-21	-669	KB91 - 5 DAY	
C2-SEG2-1080	STRIP PAVEMENT - SEG 2	2	2	0% 21-Oct-21	22-Oct-21	-669	KB91 - 5 DAY	
C2-SEG2-1190	INSTALL SIGNALIZATION / LIGHTING / WIRE & TERMINATE / TRAFFIC LOOPS - SEG 2	7	7	0% 18-Oct-21	26-Oct-21	-536	KB91 - 5 DAY	
C2-SEG2-1090	DEWATERING SET-UP - SEG 2	3	3	0% 25-Od-21	27-Oct-21	-669	KB91 - 5 DAY	
C2-SEG2-1120	INSTALL STORM DRAINS - SEG 2	45	45	0% 28-Oct-21	29-Dec-21	-669	KB91 - 5 DAY	
C2-SEG2-1100	REPLACE SAN, MAIN AND LATERALS - SEG 2	22	22	0% 30-Dec-21	28-Jan-22	-669	KB91 - 5 DAY	
C2-SEG2-1110	INSTALL VM LINES - SEG 2	15	15	0% 31-Jan-22	18-Feb-22	-669	KB91 - 5 DAY	
C2-SEG2-1110	ROADWAY CONSTRUCTION ELEV 3.7 NAVD - SEG 2	35	35	0% 21-Feb-22	Date was a consequent	ANTIGRES I		
C2-SEG2-1130	INSTALL STREET LIGHT CONDUIT/ BOXES - SEG 2	10	10	0% 28-Mar-22	08-Apr-22	-669	KB91 - 5 DAY	
C2-SEG2-1140	HARMONIZE PROPERTIES - EARTHWORK / YARD DRAIN & PIPING - SEG 2	38			08-Apr-22	-666	KB91 - 5 DAY	
C2-SEG2-1210	INSTALL NEW CURB / GUTTER / RETAINING WALLS / ETC - SEG 2		38	0% 21-Feb-22	13-Apr-22	-669	KB91 - 5 DAY	
C2-SEG2-1170	INSTALL NEW SIDEWALK - SEG 2	12	12	0% 14-Apr-22	29-Apr-22	-669	KB91 - 5 DAY	
	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	,	,	0% 02-May-22	10-May-22	-669	KB91 - 5 DAY	
C2-SEG2-1180	INSTALL ASPHALT BASE 1ST LIFT - SEG 2	4	40	0% 11-May-22	16-May-22	-669	KB91 - 5 DAY	
	PAVERS AT LINCOLN CT & NORTH BAY RD LANDSCAPING & IRRIGATION - SEG 2	10	10	0% 11-May-22	20-May-22	-956	KB91 - 7 DAY	
		5	5	0% 17-May-22	23-May-22	-669	KB91 - 5 DAY	
	SEGMENT 2 SUBSTANTIAL COMPLETION	0	0	0%	23-May-22	-669	KB91 - 5 DAY	
A1000	2 7 (10 Comments)	65	6F	00/ 00 0+ 04	00 to 00	600	VD04 5 D4V	
	WATER QUALITY WELLS AT LINCOLN RD & BAY RD (3 EA)	65	65	0% 08-Oct-21	06-Jan-22	-602	KB91 - 5 DAY	
A1010	WATER QUALITY WELLS AT LINCOLN RD & ALTON CT (1 EA)	21	21	0% 07-Jan-22	04-Feb-22	-602	KB91 - 5 DAY	
A STATE OF THE PARTY OF THE PAR	CONSTRUCTION							
Control and Alexander	HARMONIZATION PLANS & LICENSE AGREEMENT SIGNED OFF BY RESIDENTS - 100% - SEG 3	10	10	0% 08-Oct-21	21-Oct-21	-517	KB91 - 5 DAY	
	MOBILIZE & MATERIAL DELIVERY - SEG 3	2	2	0% 24-May-22	25-May-22	-669	KB91 - 5 DAY	
5,500 - 1,500	SURVEY LAY-OUT - SEG 3	1	1	0% 26-May-22	26-May-22	-668	KB91 - 5 DAY	
	ESTABLISH MOT - SEG 3	1	1	0% 26-May-22	26-May-22	-669	KB91 - 5 DAY	
	CONFIRM ENCROACHMENTS ARE REMOVED - SEG 3	1	1	0% 27-May-22	27-May-22	-668	KB91 - 5 DAY	
	PROTECT EXISTING TREES TO REMAIN - SEG 3	2	2	0% 27-May-22	30-May-22	-669	KB91 - 5 DAY	
	ESTABLISH ELECTRIC SERVICE POINTS - SEG 3	5	5	0% 27-May-22	02-Jun-22	-585	KB91 - 5 DAY	
	DEMO CURB / GUTTER / SIDEWALK - SEG 3	4	4	0% 31-May-22	03-Jun-22	-669	KB91 - 5 DAY	
C2-SEG3-1070	ESTABLISH PEDESTRIAN ACCESS - SEG 3	3	3	0% 06-Jun-22	08-Jun-22	-669	KB91 - 5 DAY	
C2-SEG3-1080	STRIP PAVEMENT - SEG 3	2	2	0% 09-Jun-22	10-Jun-22	-669	KB91 - 5 DAY	

Page 6 of 12



RUN DATE:19-Apr-21 DATA DATE:01-Apr-21

			DE	ERFIELD BEACH, FLORIUM				
Activity ID	Activity Name	OD	RD	PCT Start	Finish	Total Float	Calendar	2021 2022 2023 2024 202 AMJJASQNDJFMAMJJASQNDJFMAMJJASQNDJFMAMJJASQNDJF
C2-SEG3-1190	INSTALL SIGNALIZATION / LIGHTING / WIRE & TERMINATE / TRAFFIC LOOPS - SEG 3	7	7	0% 03-Jun-22	13-Jun-22	-577	KB91 - 5 DAY	
C2-SEG3-1090	DEWATERING SET-UP - SEG 3	3	3	0% 13-Jun-22	15-Jun-22	-669	KB91 - 5 DAY	
C2-SEG3-1120	INSTALL STORM DRAINS - SEG 3	30	30	0% 16-Jun-22	27-Jul-22	-669	KB91 - 5 DAY	
C2-SEG3-1100	REPLACE SAN. MAIN AND LATERALS - SEG 3	15	15	0% 28-Jul-22	17-Aug-22	-669	KB91 - 5 DAY	
C2-SEG3-1110	INSTALL WM LINES - SEG 3	12	12	0% 18-Aug-22	02-Sep-22	-669	KB91 - 5 DAY	
C2-SEG3-1130	ROADWAY CONSTRUCTION ELEV 3.7 NAVD - SEG 3	20	20	0% 05-Sep-22	30-Sep-22	-669	KB91 - 5 DAY	
C2-SEG3-1140	INSTALL STREET LIGHT CONDUIT / BOXES - SEG 3	5	5	0% 26-Sep-22	30-Sep-22	-666	KB91 - 5 DAY	
C2-SEG3-1210	HARMONIZE PROPERTIES - EARTHWORK / YARD DRAIN & PIPING - SEG 3	23	23	0% 05-Sep-22	05-Oct-22	-669	KB91 - 5 DAY	
C2-SEG3-1160	INSTALL NEW CURB / GUTTER / RETAINING WALLS / ETC - SEG 3	10	10	0% 06-Oct-22	19-Oct-22	-669	KB91 - 5 DAY	
C2-SEG3-1170	INSTALL NEW SIDEWALK - SEG 3	7	7	0% 20-Oct-22	28-Oct-22	-669	KB91 - 5 DAY	
C2-SEG3-1180	INSTALL ASPHALT BASE 1ST LIFT - SEG 3	3	3	0% 31-Oct-22	02-Nov-22	-669	KB91 - 5 DAY	
C2-SEG3-1200	LANDSCAPING & IRRIGATION - SEG 3	3	3	0% 03-Nov-22	07-Nov-22	-669	KB91 - 5 DAY	
C2-SEG3-1220	SEGMENT 3 SUBSTANTIAL COMPLETION	0	0	0%	07-Nov-22	-669	KB91 - 5 DAY	
WATER QUALI								
A1020	WATER QUALITY WELLS AT 16TH & WEST AVENUE	21	21	0% 27 -M ay-22	24-Jun-22	-600	KB91 - 5 DAY	
A1030	WATER QUALITY WELLS AT 16TH & ALTON CT	21	21	0% 27-Jun-22	25-Jul-22	-600	KB91 - 5 DAY	
SEGMENT 4	CONSTRUCTION							
C2-SEG4-1000	HARMONIZATION PLANS & LICENSE AGREEMENT SIGNED OFF BY RESIDENTS - 100% - SEG 4	10	10	0% 08-Nov-21	19-Nov-21	418	KB91 - 5 DAY	
C2-SEG4-1010	MOBILIZE & MATERIAL DELIVERY - SEG 4	2	2	0% 08-Nov-22	09-Nov-22	-669	KB91 - 5 DAY	
C2-SEG4-1020	SURVEY LAY-OUT - SEG 4	1	1	0% 10-Nov-22	10-Nov-22	-668	KB91 - 5 DAY	
C2-SEG4-1040	ESTABLISH MOT - SEG 4	1	1	0% 10-Nov-22	10-Nov-22	-669	KB91 - 5 DAY	
C2-SEG4-1030	CONFIRM ENCROACHMENTS ARE REMOVED - SEG 4	1	1	0% 11-Nov-22	11-Nov-22	-668	KB91 - 5 DAY	
C2-SEG4-1050	PROTECT EXISTING TREES TO REMAIN - SEG 4	2	2	0% 11-Nov-22	14-Nov-22	-669	KB91 - 5 DAY	
C2-SEG4-1150	ESTABLISH ELECTRIC SERVICE POINTS - SEG 4	2	2	0% 11-Nov-22	14-Nov-22	-633	KB91 - 5 DAY	
C2-SEG4-1060	DEMO CURB / GUTTER / SIDEWALK - SEG 4	4	4	0% 15-Nov-22	18-Nov-22	-669	KB91 - 5 DAY	
C2-SEG4-1190	INSTALL SIGNALIZATION / LIGHTING / WIRE & TERMINATE / TRAFFIC LOOPS - SEG 4	5	5	0% 15-Nov-22	21-Nov-22	-630	KB91 - 5 DAY	
C2-SEG4-1070	ESTABLISH PEDESTRIAN ACCESS - SEG 4	3	3	0% 21-Nov-22	23-Nov-22	-669	KB91 - 5 DAY	
C2-SEG4-1080	STRIP PAVEMENT - SEG 4	2	2	0% 24-Nov-22	25-Nov-22	-669	KB91 - 5 DAY	
C2-SEG4-1090	DEWATERING SET-UP - SEG 4	3	3	0% 28-Nov-22	30-Nov-22	-669	KB91 - 5 DAY	
C2-SEG4-1120	INSTALL STORM DRAINS - SEG 4	8	8	0% 01-Dec-22	12-Dec-22	-669	KB91 - 5 DAY	
C2-SEG4-1100	REPLACE SAN. MAIN AND LATERALS - SEG 4	5	5	0% 13-Dec-22	19-Dec-22	-669	KB91 - 5 DAY	
	INSTALL WM LINES - SEG 4	5	5	0% 20-Dec-22	26-Dec-22	-669	KB91 - 5 DAY	
	ROADWAY CONSTRUCTION ELEV 3.7 NAVD - SEG 4	10	10	0% 27-Dec-22	09-Jan-23	-669	KB91 - 5 DAY	
	INSTALL STREET LIGHT CONDUIT / BOXES - SEG 4	4	4	0% 04-Jan-23	09-Jan-23	-669	KB91 - 5 DAY	
REPORT OF THE PROPERTY OF THE PARTY OF THE P	HARMONIZE PROPERTIES - EARTHWORK / YARD DRAIN & PIPING - SEG 4	10	10	0% 27-Dec-22	09-Jan-23	-669	KB91 - 5 DAY	
	INSTALL NEW CURB / GUTTER / RETAINING WALLS / ETC - SEG 4	4	4	0% 10-Jan-23	13-Jan-23	-669	KB91 - 5 DAY	
	INSTALL NEW SIDEWALK - SEG 4	3	3	0% 16-Jan-23	18-Jan-23	-669	KB91 - 5 DAY	
	INSTALL ASPHALTBASE 1STLIFT - SEG 4	2	2	0% 19-Jan-23	20-Jan-23	-669	KB91 - 5 DAY	
	LANDSCAPING & IRRIGATION - SEG 4	5	5	0% 23-Jan-23	27-Jan-23	-669	KB91 - 5 DAY	
F3/45 90 00000 1000000	SEGMENT 4 SUBSTANTIAL COMPLETION	0	0	0%	03-Feb-23	-669	KB91 - 5 DAY	
	PAVERS AT STREET ENDS RAISE ROADS - ADDED AMENITIES - SEG 4 LINCOLN TER	5	5	0% 30-Jan-23	03-Feb-23	-669	KB91 - 5 DAY	
	CONSTRUCTION		KANON			THE RESERVE		
	HARMONIZATION PLANS & LICENSE AGREEMENT SIGNED OFF BY RESIDENTS - 100% - SEG 5	8	8	0% 07-Dec-21	16-Dec-21	-373	KB91 - 5 DAY	
	MOBILIZE & MATERIAL DELIVERY - SEG 5	2	2	0% 06-Feb-23	07-Feb-23	-669	KB91 - 5 DAY	
	SURVEY LAY-OUT - SEG 5	1	1	0% 08-Feb-23	08-Feb-23	-668	KB91 - 5 DAY	
	ESTABLISH MOT - SEG 5	1	1	0% 08-Feb-23	08-Feb-23	-669	KB91 - 5 DAY	
	CONFIRM ENCROACHMENTS ARE REMOVED - SEG 5	1	1	0% 09-Feb-23	09-Feb-23	-668	KB91 - 5 DAY	
C2-SEG5-1050	PROTECT EXISTING TREES TO REMAIN - SEG 5	2	2	0% 09-Feb-23	10-Feb-23	-669	KB91 - 5 DAY	

Remaining Level of Effort Remaining Work

Actual Work Critical Remaining Work

◆ Milestone

Page 7 of 12

TASK filter: All Activities

Remaining Level of Effort Remaining Work

Actual Work

Critical Remaining Work

Milestone



RUN DATE:19-Apr-21 DATA DATE:01-Apr-21

TASK filter: All Activities

				ERFIELD BEACH, FLORIUM				
activity ID	Activity Name	OD	RD	PCT Start	Finish	Total Float	Calendar	2021 2022 2023 2024 2025 A M J J A S Q N D J F M A M J J A S Q N D J F M A M J J A S Q N D J F M A M J J A S Q N D J F M A M J J A S Q N D J F M A
C2-SEG5-1150	ESTABLISH ELECTRIC SERVICE POINTS - SEG 5	5	5	0% 09-Feb-23	15-Feb-23	-617	KB91 - 5 DAY	
C2-SEG5-1060	DEMO CURB / GUTTER / SIDEWALK - SEG 5	4	4	0% 13-Feb-23	16-Feb-23	-669	KB91 - 5 DAY	
C2-SEG5-1070	ESTABLISH PEDESTRIAN ACCESS - SEG 5	3	3	0% 17-Feb-23	21-Feb-23	-669	KB91 - 5 DAY	
C2-SEG5-1080	STRIP PAVEMENT - SEG 5	2	2	0% 22-Feb-23	23-Feb-23	-669	KB91 - 5 DAY	
C2-SEG5-1090	DEWATERING SET-UP - SEG 5	1	1	0% 24-Feb-23	24-Feb-23	-669	KB91 - 5 DAY	
C2-SEG5-1190	INSTALL SIGNALIZATION / LIGHTING / WIRE & TERMINATE / TRAFFIC LOOPS - SEG 5	7	7	0% 16-Feb-23	24-Feb-23	-614	KB91 - 5 DAY	
C2-SEG5-1120	INSTALL STORM DRAINS - SEG 5	20	20	0% 27-Feb-23	24-Mar-23	-669	KB91 - 5 DAY	
C2-SEG5-1100	REPLACE SAN. MAIN AND LATERALS - SEG 5	10	10	0% 27-Mar-23	07-Apr-23	-669	KB91 - 5 DAY	
C2-SEG5-1110	INSTALL WM LINES - SEG 5	5	5	0% 10-Apr-23	14-Apr-23	-669	KB91 - 5 DAY	
C2-SEG5-1130	ROADWAY CONSTRUCTION ELEV 3.7 NAVD - SEG 5	15	15	0% 17-Apr-23	05-May-23	-669	KB91 - 5 DAY	
C2-SEG5-1140	INSTALL STREET LIGHT CONDUIT / BOXES - SEG 5	5	5	0% 01-May-23	05-May-23	-669	KB91 - 5 DAY	
C2-SEG5-1210	HARMONIZE PROPERTIES - EARTHWORK / YARD DRAIN & PIPING - SEG 5	15	15	0% 17-Apr-23	05-May-23	-669	KB91 - 5 DAY	
C2-SEG5-1160	INSTALL NEW CURB / GUTTER / RETAINING WALLS / ETC - SEG 5	5	5	0% 08-May-23	12-May-23	-669	KB91 - 5 DAY	
C2-SEG5-1170	INSTALL NEW SIDEWALK - SEG 5	4	4	0% 15-May-23	18-May-23	-669	KB91 - 5 DAY	
C2-SEG5-1180	INSTALL ASPHALT BASE 1ST LIFT - SEG 5	2	2	0% 19-May-23	22-May-23	-669	KB91 - 5 DAY	
C2-SEG5-1200	LANDSCAPING & IRRIGATION - SEG 5	3	3	0% 23-May-23	25-May-23	-669	KB91 - 5 DAY	
C2-SEG5-1220	SEGMENT 5 SUBSTANTIAL COMPLETION	0	0	0%	05-Jun-23	-669	KB91 - 5 DAY	
C2-SEG5-1215	PAVERS AT STREET ENDS RAISE ROADS - ADDED AMENITIES - SEG 5 16TH CT	7	7	0% 26-May-23	05-Jun-23	-669	KB91 - 5 DAY	
SEGMENT 6	CONSTRUCTION							
C2-SEG6-1000	HARMONIZATION PLANS & LICENSE AGREEMENT SIGNED OFF BY RESIDENTS - 100% - SEG 6	15	15	0% 06-Jan-22	26-Jan-22	-316	KB91 - 5 DAY	
C2-SEG6-1010	MOBILIZE & MATERIAL DELIVERY - SEG 6	2	2	0% 06-Jun-23	07-Jun-23	-669	KB91 - 5 DAY	
C2-SEG6-1040	ESTABLISH MOT - SEG 6	1	1	0% 08-Jun-23	08-Jun-23	-669	KB91 - 5 DAY	
C2-SEG6-1020	SURVEY LAY-OUT - SEG 6	2	2	0% 08-Jun-23	09-Jun-23	-669	KB91 - 5 DAY	
C2-SEG6-1030	CONFIRM ENCROACHMENTS ARE REMOVED - SEG 6	1	1	0% 12-Jun-23	12-Jun-23	-669	KB91 - 5 DAY	
C2-SEG6-1050	PROTECT EXISTING TREES TO REMAIN - SEG 6	2	2	0% 09-Jun-23	12-Jun-23	-669	KB91 - 5 DAY	
C2-SEG6-1060	DEMO CURB / GUTTER / SIDEWALK - SEG 6	4	4	0% 13-Jun-23	16-Jun-23	-669	KB91 - 5 DAY	
C2-SEG6-1150	ESTABLISH ELECTRIC SERVICE POINTS - SEG 6	5	5	0% 12-Jun-23	16-Jun-23	-575	KB91 - 5 DAY	
C2-SEG6-1070	ESTABLISH PEDESTRIAN ACCESS - SEG 6	3	3	0% 19-Jun-23	21-Jun-23	-669	KB91 - 5 DAY	
C2-SEG6-1080	STRIP PAVEMENT - SEG 6	2	2	0% 22-Jun-23	23-Jun-23	-669	KB91 - 5 DAY	
C2-SEG6-1190	INSTALL SIGNALIZATION / LIGHTING / WIRE & TERMINATE / TRAFFIC LOOPS - SEG 6	7	7	0% 19-Jun-23	27-Jun-23	-564	KB91 - 5 DAY	
C2-SEG6-1090	DEWATERING SET-UP - SEG 6	3	3	0% 26-Jun-23	28-Jun-23	-669	KB91 - 5 DAY	
C2-SEG6-1120	INSTALL STORM DRAINS - SEG 6	35	35	0% 29-Jun-23	16-Aug-23	-669	KB91 - 5 DAY	
C2-SEG6-1100	REPLACE SAN, MAIN AND LATERALS - SEG 6	15	15	0% 17-Aug-23	06-Sep-23	-669	KB91 - 5 DAY	
	INSTALL WM LINES - SEG 6	11	11	0% 07-Sep-23	21-Sep-23	-669	KB91 - 5 DAY	
C2-SEG6-1130	ROADWAY CONSTRUCTION ELEV 3.7 NAVD - SEG 6	30	30	0% 22-Sep-23	02-Nov-23	-669	KB91 - 5 DAY	
	INSTALL STREET LIGHT CONDUIT / BOXES - SEG 6	8	8	0% 24-Oct-23	02-Nov-23	-666	KB91 - 5 DAY	
C2-SEG6-1210	HARMONIZE PROPERTIES - EARTHWORK / YARD DRAIN & PIPING - SEG 6	33	33	0% 22-Sep-23	07-Nov-23	-669	KB91 - 5 DAY	
	INSTALL NEW CURB / GUTTER / RETAINING WALLS / ETC - SEG 6	10	10	0% 08-Nov-23	21-Nov-23	-669	KB91 - 5 DAY	
	INSTALL NEW SIDEWALK - SEG 6	7	7	0% 22-Nov-23	30-Nov-23	-669	KB91 - 5 DAY	
	INSTALL ASPHALT BASE 1STLIFT - SEG 6	4	4	0% 01-Dec-23	06-Dec-23	-669	KB91 - 5 DAY	
	LANDSCAPING & IRRIGATION - SEG 6	6	6	0% 07-Dec-23	14-Dec-23	-669	KB91 - 5 DAY	
500000000000000000000000000000000000000	SEGMENT 6 SUBSTANTIAL COMPLETION	0	0	0%	14-Dec-23	-669	KB91 - 5 DAY	
WATER QUALIT	A CONTRACTOR OF THE CONTRACTOR							
THE RESERVE TO SERVE THE PARTY OF THE PARTY	WATER QUALITY WELLS AT 15TH TERRACE & WEST AVENUE (1 EA)	21	21	0% 09-Jun-23	07-Jul-23	-586	KB91 - 5 DAY	
	WATER QUALITY WELLS AT 15TH TERRACE & ALTON CT (1 EA)	21		0% 10-Jul-23	07-Aug-23	-586	KB91 - 5 DAY	
	CONSTRUCTION			Kalon hatalom		20500 A		
	HARMONIZATION PLANS & LICENSE AGREEMENT SIGNED OFF BY RESIDENTS - 100% - SEG 7	8	8	0% 07-Feb-22	16-Feb-22	-193	KB91 - 5 DAY	
	MOBILIZE & MATERIAL DELIVERY - SEG 7	2	-				1,501 - 0 5711	医乳腺的 医大性 斯斯 医乳腺 医化尿 医自己 经证据 医阴炎 医阴炎 医肾髓 医自己 医克克氏学 化原面 化氯化铵 化二氯化铵

Page 8 of 12

Critical Remaining Work

Actual Work



RUN DATE:19-Apr-21 DATA DATE:01-Apr-21

				ERFIELD BEACH, FLORIUM				
tivity ID	Activity Name	OD	RD	PCT Start	Finish	Total Float	Calendar	2021 2022 2023 2024 2025 AMJJASQNDJFMAMJJASQNDJFMAMJJASQNDJFMAMJJASQNDJFMAMJJASQNDJFMA
C2-SEG7-1020	SURVEY LAY-OUT - SEG 7	1	1	0% 19-Dec-23	19-Dec-23	-668	KB91 - 5 DAY	U 144U A 144U A 141U A 141U A 141U A 141U A 141U A 141U A 141U A 141U A 141U A 141U A 141U A 141U A 141U A 14
C2-SEG7-1040	ESTABLISH MOT - SEG 7	1	1	0% 19-Dec-23	19-Dec-23	-669	KB91 - 5 DAY	
C2-SEG7-1030	CONFIRM ENCROACHMENTS ARE REMOVED - SEG 7	1	1	0% 20-Dec-23	20-Dec-23	-668	KB91 - 5 DAY	
C2-SEG7-1050	PROTECT EXISTING TREES TO REMAIN - SEG 7	2	2	0% 20-Dec-23	21-Dec-23	-669	KB91 - 5 DAY	
C2-SEG7-1150	ESTABLISH ELECTRIC SERVICE POINTS - SEG 7	3	3	0% 20-Dec-23	22-Dec-23	-620	KB91 - 5 DAY	
C2-SEG7-1060	DEMO CURB / GUTTER / SIDEWALK - SEG 7	4	4	0% 22-Dec-23	27-Dec-23	-669	KB91 - 5 DAY	
C2-SEG7-1070	ESTABLISH PEDESTRIAN ACCESS - SEG 7	3	3	0% 28-Dec-23	01-Jan-24	-669	KB91 - 5 DAY	
C2-SEG7-1190	INSTALL SIGNALIZATION / LIGHTING / WIRE & TERMINATE / TRAFFIC LOOPS - SEG 7	7	7	0% 25-Dec-23	02-Jan-24	-617	KB91 - 5 DAY	
C2-SEG7-1080	STRIP PAVEMENT - SEG 7	2	2	0% 02-Jan-24	03-Jan-24	-669	KB91 - 5 DAY	
C2-SEG7-1090	DEWATERING SET-UP - SEG 7	1	1	0% 04-Jan-24	04-Jan-24	-669	KB91 - 5 DAY	
C2-SEG7-1120	INSTALL STORM DRAINS - SEG 7	20	20	0% 05-Jan-24	01-Feb-24	-669	KB91 - 5 DAY	
C2-SEG7-1100	REPLACE SAN. MAIN AND LATERALS - SEG 7	5	5	0% 02-Feb-24	08-Feb-24	-669	KB91 - 5 DAY	
C2-SEG7-1110	INSTALL WM LINES - SEG 7	5	5	0% 09-Feb-24	15-Feb-24	-669	KB91 - 5 DAY	
C2-SEG7-1130	ROADWAY CONSTRUCTION ELEV 3.7 NAVD - SEG 7	15	15	0% 16-Feb-24	07-Mar-24	-669	KB91 - 5 DAY	
C2-SEG7-1140	INSTALL STREET LIGHT CONDUIT / BOXES - SEG 7	5	5	0% 01-Mar-24	07-Mar-24	-669	KB91 - 5 DAY	
C2-SEG7-1210	HARMONIZE PROPERTIES - EARTHWORK / YARD DRAIN & PIPING - SEG 7	15	15	0% 16-Feb-24	07-Mar-24	-669	KB91 - 5 DAY	
C2-SEG7-1160	INSTALL NEW CURB / GUTTER / RETAINING WALLS / ETC - SEG 7	5	5	0% 08-Mar-24	14-Mar-24	-669	KB91 - 5 DAY	
C2-SEG7-1170	INSTALL NEW SIDEWALK - SEG 7	6	5	0% 15-Mar-24	21-Mar-24	-669	KB91 - 5 DAY	
C2-SEG7-1180	INSTALL ASPHALT BASE 1ST LIFT - SEG 7	3	3	0% 22-Mar-24	26-Mar-24	-669	KB91 - 5 DAY	
C2-SEG7-1200	LANDSCAPING & IRRIGATION - SEG 7	3	3	0% 27-Mar-24	29-Mar-24	-669	KB91 - 5 DAY	
C2-SEG7-1220	SEGMENT 7 SUBSTANTIAL COMPLETION	0	0	0%	29-Mar-24	-669	KB91 - 5 DAY	
	CONSTRUCTION				201721-24	-000	NDOT - 0 DAT	
C2-SEG8-1000	HARMONIZATION PLANS & LICENSE AGREEMENT SIGNED OFF BY RESIDENTS - 100% - SEG 8	10	10	09/ 07 Mar 22	10 Mar 22	120	VD04 E DAV	
C2-SEG8-1000	MOBILIZE & MATERIAL DELIVERY - SEG 8	10	10	0% 07-Mar-22	18-Mar-22	-139	KB91 - 5 DAY	
C2-SEG8-1010	SURVEY LAY-OUT - SEG 8		-	0% 01-Apr-24	02-Apr-24	-669	KB91 - 5 DAY	
Contractor of the Market of		1	1	0% 03-Apr-24	03-Apr-24	-668	KB91 - 5 DAY	
C2-SEG8-1040	ESTABLISH MOT - SEG 8		1	0% 03-Apr-24	03-Apr-24	-669	KB91 - 5 DAY	
C2-SEG8-1030	CONFIRM ENCROACHMENTS ARE REMOVED - SEG 8	1	1	0% 04-Apr-24	04-Apr-24	-668	KB91 - 5 DAY	
C2-SEG8-1050	PROTECT EXISTING TREES TO REMAIN - SEG 8	2	-	0% 04-Apr-24	05-Apr-24	-669	KB91 - 5 DAY	
C2-SEG8-1150	ESTABLISH ELECTRIC SERVICE POINTS - SEG 8	5	5	0% 04-Apr-24	10-Apr-24	-610	KB91 - 5 DAY	
C2-SEG8-1060	DEMO CURB / GUTTER / SIDEWALK - SEG 8	4	4	0% 08-Apr-24	11-Apr-24	-669	KB91 - 5 DAY	
C2-SEG8-1070	ESTABLISH PEDESTRIAN ACCESS - SEG 8	3	3	0% 12-Apr-24	16-Apr-24	-669	KB91 - 5 DAY	
	STRIP PAVEMENT - SEG 8	2	2	0% 17-Apr-24	18-Apr-24	-669	KB91 - 5 DAY	
	DEWATERING SET-UP - SEG 8	1	1	0% 19-Apr-24	19-Apr-24	-669	KB91 - 5 DAY	
	INSTALL SIGNALIZATION / LIGHTING / WIRE & TERMINATE / TRAFFIC LOOPS - SEG 8	7	7	0% 11-Apr-24	19-Apr-24	-607	KB91 - 5 DAY	
C2-SEG8-1120	INSTALL STORM DRAINS - SEG 8	15	15	0% 22-Apr-24	10-May-24	-669	KB91 - 5 DAY	
C2-SEG8-1100	REPLACE SAN, MAIN AND LATERALS - SEG 8	17	17	0% 13-May-24	04-Jun-24	-669	KB91 - 5 DAY	
	INSTALL WM LINES - SEG 8	5	5	0% 05-Jun-24	11-Jun-24	-669	KB91 - 5 DAY	
C2-SEG8-1130	ROADWAY CONSTRUCTION ELEV 3.7 NAVD - SEG 8	20	20	0% 12-Jun-24	09-Jul-24	-669	KB91 - 5 DAY	
C2-SEG8-1140	INSTALL STREET LIGHT CONDUIT/ BOXES - SEG 8	5	5	0% 03-Jul-24	09-Jul-24	-669	KB91 - 5 DAY	
	HARMONIZE PROPERTIES - EARTHWORK / YARD DRAIN & PIPING - SEG 8	20	20	0% 12-Jun-24	09-Jul-24	-669	KB91 - 5 DAY	
Charles in Section 1975	INSTALL NEW CURB / GUTTER / RETAINING WALLS / ETC - SEG 8	5	5	0% 10-Jul-24	16-Jul-24	-669	KB91 - 5 DAY	
	INSTALL NEW SIDEWALK - SEG 8	7	7	0% 17-Jul-24	25-Jul-24	-669	KB91 - 5 DAY	
	INSTALL ASPHALT BASE 1ST LIFT - SEG 8	4	4	0% 26-Jul-24	31-Jul-24	-669	KB91 - 5 DAY	
	PAVERS AT STREET ENDS RAISE ROADS - ADDED AMENITIES - SEG 8 14TH ST	7	7	0% 26-Jul-24	05-Aug-24	-665	KB91 - 5 DAY	
	LANDSCAPING & IRRIGATION - SEG 8	7	7	0% 01-Aug-24	09-Aug-24	-669	KB91 - 5 DAY	
	SEGMENT 8 SUBSTANTIAL COMPLETION	0	0	0%	09-Aug-24	-669	KB91 - 5 DAY	
SEGMENT 9 C	CONSTRUCTION							
C2-SEG9-1000	HARMONIZATION PLANS & LICENSE AGREEMENT SIGNED OFF BY RESIDENTS - 100% - SEG 9	10	10	0% 06-Apr-22	19-Apr-22	-66	KB91 - 5 DAY	

Remaining Level of Effort Remaining Work

Actual Work

Critical Remaining Work

♦ Milestone



RUN DATE:19-Apr-21 DATA DATE:01-Apr-21

TASK filter: All Activities

			DE	ERFIELD BEACH, FLORIDA							
tivity ID	Activity Name	OD	RD	PCT Start	Finish	Total Float	Calendar	2021	2022 FMAMJJASON	2023	2024 20 D J F MA M J J A S O N D J
C2-SEG9-1010	MOBILIZE & MATERIAL DELIVERY - SEG 9	2	2	0% 12-Aug-24	13-Aug-24	-669	KB91 - 5 DAY		11-1-1-1-1-1		
C2-SEG9-1040	ESTABLISH MOT - SEG 9	1	1	0% 14-Aug-24	14-Aug-24	-669	KB91 - 5 DAY				
C2-SEG9-1020	SURVEY LAY-OUT - SEG 9	2	2	0% 14-Aug-24	15-Aug-24	-669	KB91 - 5 DAY				
C2-SEG9-1030	CONFIRM ENCROACHMENTS ARE REMOVED - SEG 9	1	1	0% 16-Aug-24	16-Aug-24	-669	KB91 - 5 DAY				
C2-SEG9-1050	PROTECT EXISTING TREES TO REMAIN - SEG 9	2	2	0% 15-Aug-24	16-Aug-24	-669	KB91 - 5 DAY				
C2-SEG9-1150	ESTABLISH ELECTRIC SERVICE POINTS - SEG 9	2	2	0% 16-Aug-24	19-Aug-24	-594	KB91 - 5 DAY	THITTE			
C2-SEG9-1060	DEMO CURB / GUTTER / SIDEWALK - SEG 9	4	4	0% 19-Aug-24	22-Aug-24	-669	KB91 - 5 DAY				1
C2-SEG9-1190	INSTALL SIGNALIZATION / LIGHTING / WIRE & TERMINATE / TRAFFIC LOOPS - SEG 9	5	5	0% 20-Aug-24	26-Aug-24	-584	KB91 - 5 DAY				0
C2-SEG9-1070	ESTABLISH PEDESTRIAN ACCESS - SEG 9	3	3	0% 23-Aug-24	27-Aug-24	-669	KB91 - 5 DAY				
C2-SEG9-1080	STRIP PAVEMENT - SEG 9	2	2	0% 28-Aug-24	29-Aug-24	-669	KB91 - 5 DAY				
C2-SEG9-1090	DEWATERING SET-UP - SEG 9	3	3	0% 30-Aug-24	03-Sep-24	-669	KB91 - 5 DAY				
C2-SEG9-1120	INSTALL STORM DRAINS - SEG 9	25	25	0% 04-Sep-24	08-Oct-24	-669	KB91 - 5 DAY				
C2-SEG9-1100	REPLACE SAN, MAIN AND LATERALS - SEG 9	15	15	0% 09-Oct-24	29-Oct-24	-669	KB91 - 5 DAY				
C2-SEG9-1110	INSTALL WM LINES - SEG 9	11	11	0% 30-Oct-24	13-Nov-24	-669	KB91 - 5 DAY				
C2-SEG9-1130	ROADWAY CONSTRUCTION ELEV 3.7 NAVD - SEG 9	15	15	0% 14-Nov-24	04-Dec-24	-669	KB91 - 5 DAY				11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
C2-SEG9-1140	INSTALL STREET LIGHT CONDUIT / BOXES - SEG 9	5	5	0% 28-Nov-24	04-Dec-24	-666	KB91 - 5 DAY				
C2-SEG9-1210	HARMONIZE PROPERTIES - EARTHWORK / YARD DRAIN & PIPING - SEG 9	18	18	0% 14-Nov-24	09-Dec-24	-669	KB91 - 5 DAY				
C2-SEG9-1160	INSTALL NEW CURB / GUTTER / RETAINING WALLS / ETC - SEG 9	10	10	0% 10-Dec-24	23-Dec-24	-669	KB91 - 5 DAY				
C2-SEG9-1170	INSTALL NEW SIDEWALK - SEG 9	5	5	0% 24-Dec-24	30-Dec-24	-669	KB91 - 5 DAY				
C2-SEG9-1180	INSTALL ASPHALT BASE 1ST LIFT - SEG 9	2	2	0% 31-Dec-24	01-Jan-25	-669	KB91 - 5 DAY				
C2-SEG9-1200	LANDSCAPING & IRRIGATION - SEG 9	8	8	0% 02-Jan-25	13-Jan-25	-669	KB91 - 5 DAY				
C2-SEG9-1220	SEGMENT 9 SUBSTANTIAL COMPLETION	0	0	0%	13-Jan-25	-669	KB91 - 5 DAY				
WATER QUALI											
A1060	WATER QUALITY WELLS AT 14TH CT & WEST AVENUE (3 EA)	65	65	0% 15-Aug-24	13-Nov-24	-636	KB91 - 5 DAY				
	ONSTRUCTION (SC #3)	Eliterium teessessesses		77 10710921							
C5-1010	SURVEY LAY OUT	2	2	0% 23-May-22	24-May-22	ASA KROI	- 5 DAY WEATHER				
C5-1000	MOBILIZATION AND MATERIAL DELIVERY	10	10	0% 25-May-22	07-Jun-22	200000 00000000	- 5 DAY WEATHER				
C5-1020	INSTALLATION OF PILES	15	15	0% 08-Jun-22	28-Jun-22		-5 DAY WEATHER				
C5-1020	CONSTRUCTION OF PILE CAPS	15	15	0% 29-Jun-22	19-Jul-22	2000	- 5 DAY WEATHER				
C5-1040	INSTALLATION OF BEAMS AND SLABS		20	0% 20-Jul-22	100000000000000000000000000000000000000	000000 100000000	-5 DAY WEATHER				
C5-1050	INSTALLATION OF GRATING	20	- 5	0% 17-Aug-22	16-Aug-22		-5 DAY WEATHER				
C5-1060	INSTALLATION RAILINGS AND FINISHES		15		23-Aug-22						
C5-1060 C5-1070	INSTALLATION OF ELECTRICAL COMPONENTS	15	15	0% 24-Aug-22	13-Sep-22 27-Sep-22		- 5 DAY WEATHER				
C5-1070	The state of the s	10	10								
	WALK THROUGH NSP ECTIONS AND PUNCH LIST	2	2	0% 28-Sep-22	29-Sep-22	2000	- 5 DAY WEATHER				
C5-1100	SUBSTANTIAL COMPLETION #3	0	400	0%	29-Sep-22		- 5 DAY WEATHER		- <u> </u> - - 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
C5-1110	TOTAL DURATION (FROM SEAWALL/ PUMP STA. PERMIT: MAX 180 DAYS)	130	130	0% 23-May-22	29-Sep-22	-651	KB91 - 7 DAY				
C5-1090	PUNCHLIST COMPLETION	15	15	0% 30-Sep-22	20-Oct-22	-02 KB91	- 5 DAY WEATHER		•		
GENERATOR											
	ENERATOR SET										
C-G4-120	PREPARE UTILITIES / REMOVALS - LINCOLN RD GEN SET	20	20	0% 12-Jul-21	06-Aug-21	94	KB91 - 5 DAY				
	FOUNDATION - LINCOLN RD GEN SET	5	5	0% 09-Aug-21	13-Aug-21	152	KB91 - 5 DAY				
	DUCTBANK - LINCOLN RD GEN SET	5	5	0% 16-Aug-21	20-Aug-21	152	KB91 - 5 DAY				
	STRUCTURE / PLATFORM - LINCOLN RD GEN SET	15	15	0% 23-Aug-21	10-Sep-21	152	KB91 - 5 DAY				
C-G4-160	SET EQUIPMENT - LINCOLN RD GEN SET	2	2	0% 13-Sep-21	14-Sep-21	167	KB91 - 5 DAY				
	INSTALL GAS PIPING - LINCOLN RD GEN SET	5	5	0% 15-Sep-21	21-Sep-21	170	KB91 - 5 DAY	0			
	WIRING AND TERMINATIONS - LINCOLN RD GEN SET	10	10	0% 15-Sep-21	28-Sep-21	167	KB91 - 5 DAY				
	PRE-START-UP - LINCOLN RD GEN SET	1	1	0% 29-Sep-21	29-Sep-21	174	KB91 - 5 DAY				
C-G4-200	LOAD BANK TESTING - LINCOLN RD GEN SET	2	2	0% 30-Sep-21	01-Oct-21	174	KB91 - 5 DAY				

Page 10 of 12

Actual Work

Critical Remaining Work



				ENTIELD BEACH, FLORIS					
ty ID	Activity Name	OD	RD	PCT Start	Finish	Total Float	Calendar	2021 AMJIJAISIONID	2022 2023 2024 203 D J F M A M J J A S Q N D J F M A M J J A S Q N D J F M A M J J A S Q N D J F
C-G4-180	HR / FINISHES / FENCING / LANDSCAPING - LINCOLN RD GEN SET	10	10	0% 29-Sep-21	12-Oct-21	167	KB91 - 5 DAY		
C-G4-210	COMMISSIONING /ATS TESTING - LINCOLN RD GEN SET	1	1	0% 13-Oct-21	13-Oct-21	167	KB91 - 5 DAY		
C-G4-220	TRAINING - LINCOLN RD GEN SET	1	1	0% 14-Oct-21	14-Oct-21	167	KB91 - 5 DAY		
C-G4-230	PLACE IN OPERATION - LINCOLN RD GEN SET	1	1	0% 15-Oct-21	15-Oct-21	167	KB91 - 5 DAY		
17TH STREE	ET GENERATOR SET	ALCOHOLD BY							
C-G1-120	PREPARE UTILITIES / REMOVALS - 17TH ST GEN SET	20	20	0% 09-Aug-21	03-Sep-21	94	KB91 - 5 DAY		
C-G1-130	FOUNDATION - 17TH ST GEN SET	5	5	0% 13-Sep-21	17-Sep-21	152	KB91 - 5 DAY		
C-G1-140	DUCTBANK - 17TH ST GEN SET	5	5	0% 20-Sep-21	24-Sep-21	152	KB91 - 5 DAY		
C-G1-150	STRUCTURE / PLATFORM - 17TH ST GEN SET	15	15	0% 27-Sep-21	15-Oct-21	152	KB91 - 5 DAY		
C-G1-160	SET EQUIPMENT - 17TH ST GEN SET	2	2	0% 18-Oct-21	19-Oct-21	152	KB91 - 5 DAY		
C-G1-165	INSTALL GAS PIPING - 17TH ST GEN SET	5	5	0% 20-Oct-21	26-Oct-21	164	KB91 - 5 DAY		
C-G1-170	WIRING AND TERMINATIONS - 17TH ST GEN SET	10	10	0% 20-Oct-21	02-Nov-21	152	KB91 - 5 DAY		
C-G1-190	PRE-START-UP - 17TH ST GEN SET	1	1	0% 03-Nov-21	03-Nov-21	159	KB91 - 5 DAY		
C-G1-200	LOAD BANK TESTING - 17TH ST GEN SET	2	2	0% 04-Nov-21	05-Nov-21	159	KB91 - 5 DAY	1	
C-G1-180	HR / FINISHES / FENCING / LANDSCAPING - 17TH ST GEN SET	10	10	0% 03-Nov-21	16-Nov-21	152	KB91 - 5 DAY	•	
C-G1-210	COMMISSIONING /ATS TESTING - 17TH ST GEN SET	1	1	0% 17-Nov-21	17-Nov-21	152	KB91 - 5 DAY		
C-G1-220	TRAINING - 17TH ST GEN SET	1	1	0% 18-Nov-21	18 -N ov-21	152	KB91 - 5 DAY		
C-G1-230	PLACE IN OPERATION - 17TH ST GEN SET	1	1	0% 19-Nov-21	19-Nov-21	152	KB91 - 5 DAY	i i i i i i i i i i i i i i i i i i i	
LAMINGO 8	BAY ROAD GENERATOR SET								
C-G2-120	PREPARE UTILITIES / REMOVALS - FLAMINGO & BAY RD GEN SET	20	20	0% 19-Dec-23	15-Jan-24	-502	KB91 - 5 DAY		
C-G2-130	FOUNDATION - FLAMINGO & BAY RD GEN SET	5	5	0% 16-Jan-24	22-Jan-24	-459	KB91 - 5 DAY		
C-G2-140	DUCTBANK - FLAMINGO & BAY RD GEN SET	5	5	0% 23-Jan-24	29-Jan-24	-459	KB91 - 5 DAY		
C-G2-150	STRUCTURE / PLATFORM - FLAMINGO & BAY RD GEN SET	15	15	0% 30-Jan-24	19-Feb-24	-459	KB91 - 5 DAY	 - - - - - - - - 	
C-G2-160	SET EQUIPMENT - FLAMINGO & BAY RD GEN SET	2	2	0% 20-Feb-24	21-Feb-24	-459	KB91 - 5 DAY		
C-G2-165	INSTALL GAS PIPING - FLAMINGO & BAY RD GEN SET	5	5	0% 22-Feb-24	28-Feb-24	-447	KB91 - 5 DAY		
C-G2-170	WIRING AND TERMINATIONS - FLAMINGO & BAY RD GEN SET	10	10	0% 22-Feb-24	06-Mar-24	-459	KB91 - 5 DAY		
C-G2-190	PRE-START-UP - FLAMINGO & BAY RD GEN SET	1	1	0% 07-Mar-24	07-Mar-24	-452	KB91 - 5 DAY		
C-G2-200	LOAD BANK TESTING - FLAMINGO & BAY RD GEN SET	2	2	0% 08-Mar-24	11-Mar-24	-452	KB91 - 5 DAY		
C-G2-180	HR / FINISHES / FENCING / LANDSCAPING - FLAMINGO & BAY RD GEN SET	10	10	0% 07-Mar-24	20-Mar-24	-459	KB91 - 5 DAY		
C-G2-185	BAY RD WATER QUALITY STRUCTURE	90	90	0% 16-Jan-24	20-May-24	-502	KB91 - 5 DAY		
C-G2-210	COMMISSIONING /ATS TESTING - FLAMINGO & BAY RD GEN SET	1	1	0% 21-May-24	21-May-24	-502	KB91 - 5 DAY		
C-G2-220	TRAINING - FLAMINGO & BAY RD GEN SET	1	1	0% 22-May-24	22-May-24	-502	KB91 - 5 DAY		
C-G2-230	PLACE IN OPERATION - FLAMINGO & BAY RD GEN SET		1	0% 23-May-24	23-May-24	-502	KB91 - 5 DAY		
S. Caracongramo	IP STATION - 2 GENERATOR SETS		- 1	078 204 8 By-24	201Vidy-24	-502	KB81-3 CAI		
C-G3-120	PREPARE UTILITIES / REMOVALS - 14TH ST PUMP STATION GEN SETS	20	20	0% 03-Apr-24	30-Apr-24	-535	KB91 - 5 DAY		
C-G3-130	FOUNDATION - 14TH ST PUMP STATION GEN SETS	5	5	0% 01-May-24	07-May-24	-535	KB91 - 5 DAY		
C-G3-140	DUCTBANK - 14TH ST PUMP STATION GEN SETS	5	5	0% 08-May-24	14-May-24	-535	KB91 - 5 DAY		
C-G3-150	STRUCTURE / PLATFORM - 14TH ST PUMP STATION GEN SETS	15	15	0% 15-May-24	04-Jun-24	-535	KB91 - 5 DAY		
C-G3-160	SET EQUIPMENT - 14TH ST PUMP STATION GEN SETS	10	2						
G3-165	INSTALL GAS PIPING - 14TH ST PUMP STATION GEN SETS	2	5	0% 05-Jun-24 0% 07-Jun-24	06-Jun-24	-535	KB91 - 5 DAY KB91 - 5 DAY		
G3-105 G3-170	WRING AND TERMINATIONS - 14TH ST PUMP STATION GEN SETS	40		1000	13-Jun-24	-523			
G3-170 G3-190	PRE-START-UP - 14TH ST PUMP STATION GEN SETS	10	10	0% 07-Jun-24	20-Jun-24	-535	KB91 - 5 DAY		
G3-190 G3-200		1	0	0% 21-Jun-24	21-Jun-24	-528	KB91 - 5 DAY		
	LOAD BANK TESTING - 14TH ST PUMP STATION GEN SETS HID / EINIGHES / FENCING / LANDSCADING - 14TH ST DLIND STATION CEN SETS	2	2	0% 24-Jun-24	25-Jun-24	-528	KB91 - 5 DAY		
G3-180	HR / FINISHES / FENCING / LANDSCAPING - 14TH ST PUMP STATION GEN SETS	10	10	0% 21-Jun-24	04-Jul-24	-535	KB91 - 5 DAY		
C3-210	COMMISSIONING /ATS TESTING - 14TH ST PUMP STATION GEN SETS	1	1	0% 05-Jul-24	05-Jul-24	-535	KB91 - 5 DAY		
-G3-220	TRAINING - 14TH ST PUMP STATION GEN SETS	1	1	0% 08-Jul-24	08-Jul-24	-535	KB91 - 5 DAY		
C-G3-230	PLACE IN OPERATION - 14TH ST PUMP STATION GEN SETS	1	1	0% 09-Jul-24	09-Jul-24	-535	KB91 - 5 DAY		
INAL COMP	PLETION								

Exhibit A

RUN DATE:19-Apr-21 DATA DATE:01-Apr-21

Activity ID	Activity Name	i obi	RD	PCT Start	Finish	Total	Calendar	2021	2022	2023	2024	2025
					1000000600	Float		AMJJA	ASONDJEMAMJJASO	NDJFMAMJJASONE	JEMAMJJASON	DJFM
C6-1010	FINAL CERTIFICATIONS	5	5	0% 14-Jan-25	20-Jan-25	-634	KB91 - 5 DAY	1111				1
C6-1000	FINAL ASPHALT OVERLAY	15	15	0% 14-Jan-25	03-Feb-25	-669	KB91 - 5 DAY					
C6-1040	FINAL TRAFFIC LOOP INSTALLATION	10	10	0% 04-Feb-25	17-Feb-25	-669	KB91 - 5 DAY					0
C6-1050	FINAL STRIPPING	KB91	10	0% 04-Feb-25	17-Feb-25	-669	KB91 - 5 DAY					Ð
C6-1060	FINAL PROJECT WALK THROUGH	5	5	0% 18-Feb-25	24-Feb-25	-669	KB91 - 5 DAY					0
C6-1020	FINAL SUBMISSION OF RECORD DRAWINGS AND WARRANTIES	30	30	0% 14-Jan-25	24-Feb-25	-659	KB91 - 5 DAY					
C6-1070	CLOSURE OF ALL PERMITS	20	20	0% 25-Feb-25	24-Mar-25	-659	KB91 - 5 DAY					
C6-1080	FINAL PUNCH LIST COMPLETION	30	30	0% 25-Feb-25	07-Apr-25	-669	KB91 - 5 DAY					
C6-1090	FINAL COMPLETION	0	0	0%	07-Apr-25	-669	KB91 - 5 DAY					

KB-91 WEST AVENUE NEIGHBORHOOD IMPROVEMENT NORTH MARCH 31, 2021 UPDATE 43 + NEW DESIGN BAR CHART - ALL ACTIVITIES

•

Actual Work

Critical Remaining Work



				ERFIELD BEACH, FLORIDA						
vity ID	Activity Name	OD	RD	PCT Start	Finish	Total Float	Calendar	2021 2022 2023 A M J J A S Q N D J F M A M J J A S Q N D J F M A M J J A S Q	2024	and.
KB-91 WEST	AVENUE NEIGHBORHOOD IMPROVEMENT NORTH MARCH 31, 2021 UPDATE 43 + NE	W DESIGN	100							
MILESTONE										
MS-03	SUBSTANTIAL COMPLETION #1 (NTP 1 + 730 DAYS 7/30/2019 TIA 01 8/29/2019 + RBL 6/21/2022)	0	0	0%	13-Jan-25*	-937	KB91 - 7 DAY			٠
MS-06	FINAL COMPLETION (SC #1 + 90 DAYS 10/28/2019 TIA 01 11/27/2019 + RBL 9/13/2022)	0	0	0%	07-Apr-25*	-937	KB91 - 7 DAY			
DESIGN		THE RESERVE								
A CONTRACTOR OF THE PARTY OF TH	DAINAGE (CTDEET LIGHT) COMAL II ANDOCADING DECION/DEDMITTING									444
	PRAINAGE/STREET LIGHT/SIGNAL/LANDSCAPING DESIGN/PERMITTING									
D4-040		400	400	00/ 04 D 40 4	00 4 - 04	070	VD04 7 D4V			111
A CONTRACTOR	HARMONIZATION PLANS - SEGMENT 1	130	130	0% 21-Dec-18 A	08-Aug-21	-970	KB91 - 7 DAY			
THE RESIDENCE OF THE PARTY OF T	TION (NTP 2)									
SEGMENT 1	1671 WEST AVENUE WTS									
1671 WEST A	VENUE WTS CONSTRUCTION/SEA WALL RECONSTRUCTION (SC #2)									
CONSTRUCTION			Section.							111
C3-1105	HARMONIZATION PLANS & LICENSE AGREEMENT SIGNED OFF BY RESIDENTS - 100% - 1671 WEST AVENUE WTS	41	41	0% 09-Aug-21	04-Oct-21	-669	KB91 - 5 DAY			
SEGMENT 2	CONSTRUCTION									
C2-SEG2-1000	HARMONIZATION PLANS & LICENSE AGREEMENT SIGNED OFF BY RESIDENTS - 100% - SEG 2	10	10	0% 21-Sep-21	04-Oct-21	-669	KB91 - 5 DAY			
C2-SEG2-1010	MOBILIZE & MATERIAL DELIVERY - SEG 2	2	2	0% 05-Oct-21	06-Oct-21	-669	KB91 - 5 DAY			
C2-SEG2-1040	ESTABLISH MOT - SEG 2	1	1	0% 07-Oct-21	07-Oct-21	-669	KB91 - 5 DAY			
C2-SEG2-1020	SURVEY LAY-OUT - SEG 2	2	2	0% 07-Oct-21	08-Oct-21	-669	KB91 - 5 DAY			
C2-SEG2-1030	CONFIRM ENCROACHMENTS ARE REMOVED - SEG 2	1	1	0% 11-Oct-21	11-Oct-21	-669	KB91 - 5 DAY			
C2-SEG2-1050	PROTECT EXISTING TREES TO REMAIN - SEG 2	2	2	0% 08-Oct-21	11-Oct-21	-669	KB91 - 5 DAY			
C2-SEG2-1060	DEMO CURB / GUTTER / SIDEWALK - SEG 2	4	4	0% 12-Oct-21	15-Oct-21	-669	KB91 - 5 DAY			
C2-SEG2-1070	ESTABLISH PEDESTRIAN ACCESS - SEG 2	3	3	0% 18-Oct-21	20-Oct-21	-669	KB91 - 5 DAY			
C2-SEG2-1080	STRIP PAVEMENT - SEG 2	2	2	0% 21-Oct-21	22-Oct-21	-669	KB91 - 5 DAY			
C2-SEG2-1090	DEWATERING SET-UP - SEG 2	3	3	0% 25-Oct-21	27-Oct-21	-669	KB91 - 5 DAY			
C2-SEG2-1120	INSTALL STORM DRAINS - SEG 2	45	45	0% 28-Oct-21	29-Dec-21	-669	KB91 - 5 DAY			
C2-SEG2-1100	REPLACE SAN, MAIN AND LATERALS - SEG 2	22	22	0% 30-Dec-21	28-Jan-22	-669	KB91 - 5 DAY			
2-SEG2-1110	INSTALL WM LINES - SEG 2	15	15	0% 31-Jan-22	18-Feb-22	-669	KB91 - 5 DAY			
C2-SEG2-1130	ROADWAY CONSTRUCTION ELEV 3.7 NAVD - SEG 2	35	35	0% 21-Feb-22	08-Apr-22	-669	KB91 - 5 DAY			
2-SEG2-1210	HARMONIZE PROPERTIES - EARTHWORK / YARD DRAIN & PIPING - SEG 2	38	38	0% 21-Feb-22	13-Apr-22	-669	KB91 - 5 DAY			
2-SEG2-1160	INSTALL NEW CURB / GUTTER / RETAINING WALLS / ETC - SEG 2	12	12	0% 14-Apr-22	29-Apr-22	-669	KB91 - 5 DAY			
C2-SEG2-1170	INSTALL NEW SIDEWALK - SEG 2	7	7	0% 02-May-22	10-May-22	-669	KB91 - 5 DAY			111
C2-SEG2-1180	INSTALL ASPHALT BASE 1ST LIFT - SEG 2	4	4	0% 11-May-22	16-May-22	-669	KB91 - 5 DAY			
C2-SEG2-1200	LANDSCAPING & IRRIGATION - SEG 2	5	5	0% 17-May-22	23-May-22	-669	KB91 - 5 DAY			
C2-SEG2-1220	SEGMENT 2 SUBSTANTIAL COMPLETION	0	0	0%	23-May-22	-669	KB91 - 5 DAY			
EGMENT 3	CONSTRUCTION									
C2-SEG3-1010	MOBILIZE & MATERIAL DELIVERY - SEG 3	2	2	0% 24-May-22	25-May-22	-669	KB91 - 5 DAY			111
C2-SEG3-1040	ESTABLISH MOT - SEG 3	1	1	0% 26-May-22	26-May-22	-669	KB91 - 5 DAY			111
2-SEG3-1050	PROTECT EXISTING TREES TO REMAIN - SEG 3	2	2	0% 27-May-22	30-May-22	-669	KB91 - 5 DAY			
2-SEG3-1060	DEMO CURB / GUTTER / SIDEWALK - SEG 3	4	4	0% 31-May-22	03-Jun-22	-669	KB91 - 5 DAY			
2-SEG3-1070	ESTABLISH PEDESTRIAN ACCESS - SEG 3	3	3	0% 06-Jun-22	08-Jun-22	-669	KB91 - 5 DAY			
2-SEG3-1080	STRIP PAVEMENT - SEG 3	2	2	0% 09-Jun-22	10-Jun-22	-669	KB91 - 5 DAY			
	DEWATERING SET-UP - SEG 3	3	3	0% 13-Jun-22	15-Jun-22	-669	KB91 - 5 DAY			
	INSTALL STORM DRAINS - SEG 3	30	30	0% 16-Jun-22	27-Jul-22	-669	KB91 - 5 DAY			
	REPLACE SAN. MAIN AND LATERALS - SEG 3	15	15	0% 28-Jul-22	17-Aug-22	-669	KB91 - 5 DAY			
	INSTALL WM LINES - SEG 3	12	12	0% 18-Aug-22	02-Sep-22	-669	KB91 - 5 DAY			
	ROADWAY CONSTRUCTION ELEV 3.7 NAVD - SEG 3	20	20	0% 05-Sep-22	30-Sep-22	-669	KB91 - 5 DAY			
	HARMONIZE PROPERTIES - EARTHWORK / YARD DRAIN & PIPING - SEG 3	23	23	0% 05-Sep-22	05-Oct-22	-669	KB91 - 5 DAY			



RUN DATE:19-Apr-21 DATA DATE:01-Apr-21

			_	CERFIELD BEACH, FLORIUM				
ctivity ID	Activity Name	OD	RD	PCT Start	Finish	Total Float	Calendar	2021 2022 2023 2024 202 AMJJASQNDJFMAMJJASQNDJFMAMJJASQNDJFMAMJJASQNDJF
C2-SEG3-1160	INSTALL NEW CURB / GUTTER / RETAINING WALLS / ETC - SEG 3	10	10	0% 06-Oct-22	19-Oct-22	-669	KB91 - 5 DAY	
C2-SEG3-1170	INSTALL NEW SIDEWALK - SEG 3	7	7	0% 20-Oct-22	28-Oct-22	-669	KB91 - 5 DAY	
C2-SEG3-1180	INSTALL ASPHALT BASE 1ST LIFT - SEG 3	3	3	0% 31-Oct-22	02-Nov-22	-669	KB91 - 5 DAY	
C2-SEG3-1200	LANDSCAPING & IRRIGATION - SEG 3	3	3	0% 03-Nov-22	07-Nov-22	-669	KB91 - 5 DAY	
C2-SEG3-1220	SEGMENT 3 SUBSTANTIAL COMPLETION	0	0	0%	07 -Nov- 22	-669	KB91 - 5 DAY	
SEGMENT 4	CONSTRUCTION						Na Maria	
C2-SEG4-1010	MOBILIZE & MATERIAL DELIVERY - SEG 4	2	2	0% 08-Nov-22	09-Nov-22	-669	KB91 - 5 DAY	
C2-SEG4-1040	ESTABLISH MOT - SEG 4	1	1	0% 10-Nov-22	10-Nov-22	-669	KB91 - 5 DAY	
C2-SEG4-1050	PROTECT EXISTING TREES TO REMAIN - SEG 4	2	2	0% 11-Nov-22	14-Nov-22	-669	KB91 - 5 DAY	
C2-SEG4-1060	DEMO CURB / GUTTER / SIDEWALK - SEG 4	4	4	0% 15-Nov-22	18-Nov-22	-669	KB91 - 5 DAY	
C2-SEG4-1070	ESTABLISH PEDESTRIAN ACCESS - SEG 4	3	3	0% 21-Nov-22	23-Nov-22	-669	KB91 - 5 DAY	
C2-SEG4-1080	STRIP PAVEMENT - SEG 4	2	2	0% 24-Nov-22	25-Nov-22	-669	KB91 - 5 DAY	
C2-SEG4-1090	DEWATERING SET-UP - SEG 4	3	3	0% 28-Nov-22	30-Nov-22	-669	KB91 - 5 DAY	
C2-SEG4-1120	INSTALL STORM DRAINS - SEG 4	8	8	0% 01-Dec-22	12-Dec-22	-669	KB91 - 5 DAY	
C2-SEG4-1100	REPLACE SAN. MAIN AND LATERALS - SEG 4	5	5	0% 13-Dec-22	19-Dec-22	-669	KB91 - 5 DAY	
C2-SEG4-1110	INSTALL WM LINES - SEG 4	5	5	0% 20-Dec-22	26-Dec-22	-669	KB91 - 5 DAY	
C2-SEG4-1130	ROADWAY CONSTRUCTION ELEV 3.7 NAVD - SEG 4	10	10	0% 27-Dec-22	09-Jan-23	-669	KB91 - 5 DAY	
C2-SEG4-1140	INSTALL STREET LIGHT CONDUIT/ BOXES - SEG 4	4	4	0% 04-Jan-23	09-Jan-23	-669	KB91 - 5 DAY	
C2-SEG4-1210	HARMONIZE PROPERTIES - EARTHWORK / YARD DRAIN & PIPING - SEG 4	10	10	0% 27-Dec-22	09-Jan-23	-669	KB91 - 5 DAY	
C2-SEG4-1160	INSTALL NEW CURB / GUTTER / RETAINING WALLS / ETC - SEG 4	4	4	0% 10-Jan-23	13-Jan-23	-669	KB91 - 5 DAY	
C2-SEG4-1170	INSTALL NEW SIDEWALK - SEG 4	3	3	0% 16-Jan-23	18-Jan-23	-669	KB91 - 5 DAY	
C2-SEG4-1180	INSTALL ASPHALT BASE 1ST LIFT - SEG 4	2	2	0% 19-Jan-23	20-Jan-23	-669	KB91 - 5 DAY	
C2-SEG4-1200	LANDSCAPING & IRRIGATION - SEG 4	5	5	0% 23-Jan-23	27-Jan-23	-669	KB91 - 5 DAY	
C2-SEG4-1220	SEGMENT 4 SUBSTANTIAL COMPLETION	0	0	0%	03-Feb-23	-669	KB91 - 5 DAY	
C2-SEG4-1230	PAVERS AT STREET ENDS RAISE ROADS - ADDED AMENITIES - SEG 4 LINCOLN TER	5	5	0% 30-Jan-23	03-Feb-23	-669	KB91 - 5 DAY	
SEGMENT 5	CONSTRUCTION							
	MOBILIZE & MATERIAL DELIVERY - SEG 5	2	2	0% 06-Feb-23	07-Feb-23	-669	KB91 - 5 DAY	
C2-SEG5-1040	ESTABLISH MOT - SEG 5	1	1	0% 08-Feb-23	08-Feb-23	-669	KB91 - 5 DAY	
C2-SEG5-1050	PROTECT EXISTING TREES TO REMAIN - SEG 5	2	2	0% 09-Feb-23	10-Feb-23	-669	KB91 - 5 DAY	
C2-SEG5-1060	DEMO CURB / GUTTER / SIDEWALK - SEG 5	4	4	0% 13-Feb-23	16-Feb-23	-669	KB91 - 5 DAY	
C2-SEG5-1070	ESTABLISH PEDESTRIAN ACCESS - SEG 5	3	3	0% 17-Feb-23	21-Feb-23	-669	KB91 - 5 DAY	
C2-SEG5-1080	STRIP PAVEMENT - SEG 5	2	2	0% 22-Feb-23	23-Feb-23	-669	KB91 - 5 DAY	
C2-SEG5-1090	DEWATERING SET-UP - SEG 5	1	1	0% 24-Feb-23	24-Feb-23	-669	KB91 - 5 DAY	
C2-SEG5-1120	INSTALL STORM DRAINS - SEG 5	20	20	0% 27-Feb-23	24-Mar-23	-669	KB91 - 5 DAY	
C2-SEG5-1100	REPLACE SAN, MAIN AND LATERALS - SEG 5	10	10	0% 27-Mar-23	07-Apr-23	-669	KB91 - 5 DAY	
C2-SEG5-1110	INSTALL WM LINES - SEG 5	5	5	0% 10-Apr-23	14-Apr-23	-669	KB91 - 5 DAY	
C2-SEG5-1130	ROADWAY CONSTRUCTION ELEV 3.7 NAVD - SEG 5	15	15	0% 17-Apr-23	05-May-23	-669	KB91 - 5 DAY	
C2-SEG5-1140	INSTALL STREET LIGHT CONDUIT / BOXES - SEG 5	5	5	0% 01-May-23	05-May-23	-669	KB91 - 5 DAY	
C2-SEG5-1210	HARMONIZE PROPERTIES - EARTHWORK / YARD DRAIN & PIPING - SEG 5	15	15	0% 17-Apr-23	05-May-23	-669	KB91 - 5 DAY	
C2-SEG5-1160	INSTALL NEW CURB / GUTTER / RETAINING WALLS / ETC - SEG 5	5	5	0% 08-May-23	12-May-23	-669	KB91 - 5 DAY	
C2-SEG5-1170	INSTALL NEW SIDEWALK - SEG 5	4	4	0% 15-May-23	18-May-23	-669	KB91 - 5 DAY	
C2-SEG5-1180	INSTALL ASPHALT BASE 1ST LIFT - SEG 5	2	2	0% 19-May-23	22-May-23	-669	KB91 - 5 DAY	
C2-SEG5-1200	LANDSCAPING & IRRIGATION - SEG 5	3	3	0% 23-May-23	25-May-23	-669	KB91 - 5 DAY	
C2-SEG5-1220	SEGMENT 5 SUBSTANTIAL COMPLETION	0	0	0%	05-Jun-23	-669	KB91 - 5 DAY	
C2-SEG5-1215	PAVERS AT STREET ENDS RAISE ROADS - ADDED AMENITIES - SEG 5 16TH CT	7	7	0% 26-May-23	05-Jun-23	-669	KB91 - 5 DAY	
SEGMENT 6 C	CONSTRUCTION							
	MOBILIZE & MATERIAL DELIVERY - SEG 6	2	2	0% 06-Jun-23	07-Jun-23	-669	KB91 - 5 DAY	
C2-SEG6-1040	ESTABLISH MOT - SEG 6			0% 08-Jun-23			111111 - 1111 - 1111 - 1111 - 1111 - 1111 - 1111 - 1111 - 1111 - 1111 - 1111 - 1111 - 1111 - 1111 - 1111 - 111	이 10차 보고 보고 보고 보고 보다 보고 보다 보고 보고 된 10차 보고 보고 보고 보고 보고 보고 보고 보고 보고 보고 보고 보고 보고

Remaining Level of Effort Remaining Work Actual Work

Critical Remaining Work

Milestone

Page 2 of 4

TASK filter: LONGEST PATH.



RUN DATE:19-Apr-21 DATA DATE:01-Apr-21

		1	D	EERFIELD BEACH, FLORIDA		- 1		
ivity ID	Activity Name	OD	RD	PCT Start	Finish	Total Float	Calendar	2021 2022 2023 2024 AMJJASQNDJFMAMJJASQNDJFMAMJJASQNDJFMAMJJASQND
C2-SEG6-1020	SURVEY LAY-OUT - SEG 6	2	2	0% 08-Jun-23	09-Jun-23	-669	KB91 - 5 DAY	
C2-SEG6-1030	CONFIRM ENCROACHMENTS ARE REMOVED - SEG 6	1	1	0% 12-Jun-23	12-Jun-23	-669	KB91 - 5 DAY	
C2-SEG6-1050	PROTECT EXISTING TREES TO REMAIN - SEG 6	2	2	0% 09-Jun-23	12-Jun-23	-669	KB91 - 5 DAY	
C2-SEG6-1060	DEMO CURB / GUTTER / SIDEWALK - SEG 6	4	4	0% 13-Jun-23	16-Jun-23	-669	KB91 - 5 DAY	
C2-SEG6-1070	ESTABLISH PEDESTRIAN ACCESS - SEG 6	3	3	0% 19-Jun-23	21-Jun-23	-669	KB91 - 5 DAY	
C2-SEG6-1080	STRIP PAVEMENT - SEG 6	2	2	0% 22-Jun-23	23-Jun-23	-669	KB91 - 5 DAY	
C2-SEG6-1090	DEWATERING SET-UP - SEG 6	3	3	0% 26-Jun-23	28-Jun-23	-669	KB91 - 5 DAY	
C2-SEG6-1120	INSTALL STORM DRAINS - SEG 6	35	35	0% 29-Jun-23	16-Aug-23	-669	KB91 - 5 DAY	
C2-SEG6-1100	REPLACE SAN. MAIN AND LATERALS - SEG 6	15	15	0% 17-Aug-23	06-Sep-23	-669	KB91 - 5 DAY	
C2-SEG6-1110	INSTALL WM LINES - SEG 6	11	11	0% 07-Sep-23	21-Sep-23	-669	KB91 - 5 DAY	
C2-SEG6-1130	ROADWAY CONSTRUCTION ELEV 3.7 NAVD - SEG 6	30	30	0% 22-Sep-23	02-Nov-23	-669	KB91 - 5 DAY	
C2-SEG6-1210	HARMONIZE PROPERTIES - EARTHWORK / YARD DRAIN & PIPING - SEG 6	33	33	0% 22-Sep-23	07-Nov-23	-669	KB91 - 5 DAY	
C2-SEG6-1160	INSTALL NEW CURB / GUTTER / RETAINING WALLS / ETC - SEG 6	10	10	0% 08-Nov-23	21-Nov-23	-669	KB91 - 5 DAY	
C2-SEG6-1170	INSTALL NEW SIDEWALK - SEG 6	7	7	0% 22-Nov-23	30-Nov-23	-669	KB91 - 5 DAY	
C2-SEG6-1180	INSTALL ASPHALT BASE 1ST LIFT - SEG 6	4	4	0% 01-Dec-23	06-Dec-23	-669	KB91 - 5 DAY	
C2-SEG6-1200	LANDSCAPING & IRRIGATION - SEG 6	6	6	0% 07-Dec-23	14-Dec-23	-669	KB91 - 5 DAY	
C2-SEG6-1220	SEGMENT 6 SUBSTANTIAL COMPLETION	0	0	0%	14-Dec-23	-669	KB91 - 5 DAY	
SEGMENT 7	CONSTRUCTION							
	MOBILIZE & MATERIAL DELIVERY - SEG 7	2	2	0% 15-Dec-23	18-Dec-23	-669	KB91 - 5 DAY	
C2-SEG7-1040	ESTABLISH MOT - SEG 7	1	1	0% 19-Dec-23	19-Dec-23	-669	KB91 - 5 DAY	
C2-SEG7-1050	PROTECT EXISTING TREES TO REMAIN - SEG 7	2	2	0% 20-Dec-23	21-Dec-23	-669	KB91 - 5 DAY	
C2-SEG7-1060	DEMO CURB / GUTTER / SIDEWALK - SEG 7	4	4	0% 22-Dec-23	27-Dec-23	-669	KB91 - 5 DAY	
C2-SEG7-1070	ESTABLISH PEDESTRIAN ACCESS - SEG 7	3	3	0% 28-Dec-23	01-Jan-24	-669	KB91 - 5 DAY	
C2-SEG7-1080	STRIP PAVEMENT - SEG 7	2	2	0% 02-Jan-24	03-Jan-24	-669	KB91 - 5 DAY	
C2-SEG7-1090	DEWATERING SET-UP - SEG 7	1	1	0% 04-Jan-24	04-Jan-24	-669	KB91 - 5 DAY	
C2-SEG7-1120	INSTALL STORM DRAINS - SEG 7	20	20	0% 05-Jan-24	01-Feb-24	-669	KB91 - 5 DAY	
C2-SEG7-1100	REPLACE SAN, MAIN AND LATERALS - SEG 7	5	5	0% 02-Feb-24	08-Feb-24	-669	KB91 - 5 DAY	
C2-SEG7-1110	INSTALL WM LINES - SEG 7	5	5	0% 09-Feb-24	15-Feb-24	-669	KB91 - 5 DAY	
C2-SEG7-1130	ROADWAY CONSTRUCTION ELEV 3.7 NAVD - SEG 7	15	15	0% 16-Feb-24	07-Mar-24	-669	KB91 - 5 DAY	
2-SEG7-1140	INSTALL STREET LIGHT CONDUIT / BOXES - SEG 7	5	5	0% 01-Mar-24	07-Mar-24	-669	KB91 - 5 DAY	
2-SEG7-1210	HARMONIZE PROPERTIES - EARTHWORK / YARD DRAIN & PIPING - SEG 7	15	15	0% 16-Feb-24	07-Mar-24	-669	KB91 - 5 DAY	
	INSTALL NEW CURB / GUTTER / RETAINING WALLS / ETC - SEG 7	5	5	0% 08-Mar-24	14-Mar-24	-669	KB91 - 5 DAY	
	INSTALL NEW SIDEWALK - SEG7	5	5	0% 15-Mar-24	21-Mar-24	-669	KB91 - 5 DAY	
	INSTALL ASPHALT BASE 1ST LIFT - SEG 7	3	3	0% 22-Mar-24	26-Mar-24	-669	KB91 - 5 DAY	
	LANDSCAPING & IRRIGATION - SEG 7	3	3	0% 27-Mar-24	29-Mar-24	-669	KB91 - 5 DAY	
	SEGMENT 7 SUBSTANTIAL COMPLETION	0	0	0%	29-Mar-24	-669	KB91 - 5 DAY	
	CONSTRUCTION				25461-24	-003	KBS1-3 BAI	
	MOBILIZE & MATERIAL DELIVERY - SEG 8	2	2	0% 01 00:24	02-Apr-24	660	KRO1 F DAV	
	ESTABLISH MOT - SEG 8	2	1	0% 01-Apr-24 0% 03-Apr-24	02-Apr-24 03-Apr-24	-669 -669	KB91 - 5 DAY KB91 - 5 DAY	
	PROTECT EXISTING TREES TO REMAIN - SEG 8	1	2		100000000000000000000000000000000000000	700000	KB91 - 5 DAY	
	DEMO CURB / GUTTER / SIDEWALK - SEG 8		4	0% 04-Apr-24 0% 08-Apr-24	05-Apr-24 11-Apr-24	-669 -669	KB91 - 5 DAY	
	ESTABLISH PEDESTRIAN ACCESS - SEG 8	9	3				7.0000000000000000000000000000000000000	
	STRIP PAVEMENT - SEG 8	3	3	0% 12-Apr-24	16-Apr-24	-669	KB91 - 5 DAY	
	DEWATERING SET-UP - SEG 8	2	1	0% 17-Apr-24	18-Apr-24	-669	KB91 - 5 DAY	
	INSTALL STORM DRAINS - SEG 8	1	15	0% 19-Apr-24	19-Apr-24	-669	KB91 - 5 DAY	
		15	15	0% 22-Apr-24	10-May-24	-669	KB91 - 5 DAY	
	REPLACE SAN. MAIN AND LATERALS - SEG 8	17	17	0% 13-May-24	04-Jun-24	-669	KB91 - 5 DAY	
	INSTALL WM LINES - SEG 8	5	5	0% 05-Jun-24	11-Jun-24	-669	KB91 - 5 DAY	
C2-SEG8-1130	ROADWAY CONSTRUCTION ELEV 3.7 NAVD - SEG 8	20	20	0% 12-Jun-24	09-Jul-24	-669	KB91 - 5 DAY	

Remaining Level of Effort Remaining Work Milestone

Actual Work Critical Remaining Work

Page 3 of 4

TASK filter: LONGEST PATH.

Exhibit A

KB-91 WEST AVENUE NEIGHBORHOOD IMPROVEMENT NORTH MARCH 31, 2021 UPDATE 43 + NEW DESIGN BAR CHART - CRITICAL PATH



						1		
Activity ID	Activity Name	OD	RD	PCT Start	Finish	Total Float	Calendar	
C2-SEG8-1140	INSTALL STREET LIGHT CONDUIT / BOXES - SEG 8	5	5	0% 03-Jul-24	09-Jul-24	-669	KB91 - 5 DAY	AMJJASQNDJFMAMJJASQNDJFMAMJJASQNDJFMAMJJASQNDJFM
C2-SEG8-1210	HARMONIZE PROPERTIES - EARTHWORK / YARD DRAIN & PIPING - SEG 8	20	20	0% 12-Jun-24	09-Jul-24	-669	KB91 - 5 DAY	
C2-SEG8-1160	INSTALL NEW CURB / GUTTER / RETAINING WALLS / ETC - SEG 8	5	5	0% 10-Jul-24	16-Jul-24	-669	KB91 - 5 DAY	
C2-SEG8-1170	INSTALL NEW SIDEWALK - SEG 8	7	7	0% 17-Jul-24	25-Jul-24	-669	KB91 - 5 DAY	
C2-SEG8-1180	INSTALL ASPHALT BASE 1ST LIFT - SEG 8	4	4	0% 26-Jul-24	31-Jul-24	-669	KB91 - 5 DAY	
C2-SEG8-1200	LANDSCAPING & IRRIGATION - SEG 8	7	7	0% 01-Aug-24	09-Aug-24	-669	KB91 - 5 DAY	
C2-SEG8-1220	SEGMENT 8 SUBSTANTIAL COMPLETION	0	0	0%	09-Aug-24	-669	KB91 - 5 DAY	
SEGMENT 9	CONSTRUCTION							
C2-SEG9-1010	MOBILIZE & MATERIAL DELIVERY - SEG 9	2	2	0% 12-Aug-24	13-Aug-24	-669	KB91 - 5 DAY	
C2-SEG9-1040	ESTABLISH MOT - SEG 9	1	1	0% 14-Aug-24	14-Aug-24	-669	KB91 - 5 DAY	
C2-SEG9-1020	SURVEY LAY-OUT - SEG 9	2	2	0% 14-Aug-24	15-Aug-24	-669	KB91 - 5 DAY	
C2-SEG9-1030	CONFIRM ENCROACHMENTS ARE REMOVED - SEG 9	1	1	0% 16-Aug-24	16-Aug-24	-669	KB91 - 5 DAY	
C2-SEG9-1050	PROTECT EXISTING TREES TO REMAIN - SEG 9	2	2	0% 15-Aug-24	16-Aug-24	-669	KB91 - 5 DAY	
C2-SEG9-1060	DEMO CURB / GUTTER / SIDEWALK - SEG 9	4	4	0% 19-Aug-24	22-Aug-24	-669	KB91 - 5 DAY	
C2-SEG9-1070	ESTABLISH PEDESTRIAN ACCESS - SEG 9	3	3	0% 23-Aug-24	27-Aug-24	-669	KB91 - 5 DAY	
C2-SEG9-1080	STRIP PAVEMENT - SEG 9	2	2	0% 28-Aug-24	29-Aug-24	-669	KB91 - 5 DAY	
C2-SEG9-1090	DEWATERING SET-UP - SEG 9	3	3	0% 30-Aug-24	03-Sep-24	-669	KB91 - 5 DAY	
C2-SEG9-1120	INSTALL STORM DRAINS - SEG 9	25	25	0% 04-Sep-24	08-Oct-24	-669	KB91 - 5 DAY	
C2-SEG9-1100	REPLACE SAN, MAIN AND LATERALS - SEG 9	15	15	0% 09-Oct-24	29-Oct-24	-669	KB91 - 5 DAY	
C2-SEG9-1110	INSTALL WM LINES - SEG 9	11	11	0% 30-Oct-24	13-Nov-24	-669	KB91 - 5 DAY	
C2-SEG9-1130	ROADWAY CONSTRUCTION ELEV 3.7 NAVD - SEG 9	15	15	0% 14-Nov-24	04-Dec-24	-669	KB91 - 5 DAY	
C2-SEG9-1210	HARMONIZE PROPERTIES - EARTHWORK / YARD DRAIN & PIPING - SEG 9	18	18	0% 14-Nov-24	09-Dec-24	-669	KB91 - 5 DAY	
C2-SEG9-1160	INSTALL NEW CURB / GUTTER / RETAINING WALLS / ETC - SEG 9	10	10	0% 10-Dec-24	23-Dec-24	-669	KB91 - 5 DAY	
C2-SEG9-1170	INSTALL NEW SIDEWALK - SEG 9	5	5	0% 24-Dec-24	30-Dec-24	-669	KB91 - 5 DAY	
C2-SEG9-1180	INSTALL ASPHALTBASE 1ST LIFT - SEG 9	2	2	0% 31-Dec-24	01-Jan-25	-669	KB91 - 5 DAY	
C2-SEG9-1200	LANDSCAPING & IRRIGATION - SEG 9	8	8	0% 02-Jan-25	13-Jan-25	-669	KB91 - 5 DAY	
C2-SEG9-1220	SEGMENT 9 SUBSTANTIAL COMPLETION	0	0	0%	13-Jan-25	-669	KB91 - 5 DAY	
FINAL COMP	LETION							
C6-1000	FINAL ASPHALT OVERLAY	15	15	0% 14-Jan-25	03-Feb-25	-669	KB91 - 5 DAY	
O6-1040	FINAL TRAFFIC LOOP INSTALLATION	10	10	0% 04-Feb-25	17-Feb-25	-669	KB91 - 5 DAY	
C6-1050	FINAL STRIPPING	10	10	0% 04-Feb-25	17-Feb-25	-669	KB91 - 5 DAY	
C6-1060	FINAL PROJECT WALK THROUGH	5	5	0% 18-Feb-25	24-Feb-25	-669	KB91 - 5 DAY	
C6-1080	FINAL PUNCH LIST COMPLETION	30	30	0% 25-Feb-25	07-Apr-25	-669	KB91 - 5 DAY	
C6-1090	FINAL COMPLETION	0	0	0%	07-Apr-25	-669	KB91 - 5 DAY	



City of Miami Beach 1700 Convention Center Drive Miami Beach, FL 33139 Jorge Rodriguez February 26, 2019 Sent Via Email

Re:

West Ave North - 091

Subj:

10-year Storm Drainage and Lincoln Road PS-6 Pump Option

Item 26

Jorge,

Enclosed please find our formal proposal with supporting back-up in the amount of \$3,082,308 for the 10-year Storm Drainage upgrades as originally submitted in our June 28, 2019 correspondence. The final pricing is \$237,000 below the budget estimate due to the elimination of the upsizing for the Generator to 1,250 KW from 500KW. This pricing is now housed in item 14- Generator sets.

Please be advised that the pricing submitted is based on the following assumptions:

AECOM drainage map as supplied by the CMB on May 3, 2018 dated January 17, 2018.

• The Pumping units are based on 6 - 20,000 GPM - 135 HP units with VFD's. (2 units Added)

- Generator pricing is based on 1,250 KW a bi-fuel unit with full 40 DBA sound enclosure with ATS included and 48 hours of fuel. Generator dimensions are 18' above ground elevation x 34' long and 11' wide.
- The CDS treatment units are based on 63 CFS max treated flow. (2 units added)
- Invert elevations are based on 84" diameter connection to the trash rack and sit at approximately elevation - 11.25'
- Pump station at Generator set along with Pump Panels will be located within the ROW
- FPL will provide power source to within 20' or less of the new pump station.
- No special permitting is included for height of the facilities or from the City's building department.
- Seawall repair will be expanded to suit the added length of the Dissipator boxes to accommodate the additional flow to the bay from the added pumping capacity.
- Gas main provided by TECO to within 20' og Gen Set

It should be understood, absent a fully certified drainage report, any changes in invert elevations, pipe and pump sizes, etc. will require changes in the pricing as presented herein.

Please review the documentation and contact me with any questions you may have

Sincerely,

Michael R. Fischer, COO

Ric-Man Construction Florida, Inc.



CC:

Danny Mancini Tyson DiPetrillo Chris Mancini Sabrina Baglieri

Attachments:

- RMCF Re-Cap Report
- RMCF Spread Sheets of Cost
- HCSS Activity Report
- CES Scope and Clarifications
- CES Pricing Sheet
- Supplier Quotations



3100 SW 15th Street Deerfield Beach, Florida 33442 Office:(954)426-1221

Fax:(954)426-1226

City of Miami Beach 1700 Convention Center Drive Miami Beach, FL 33139

August 7, 2019 Sent Via Email

Attn: Jorge Rodriguez

Re: West Avenue North 091

Subj: Model Study 2.1B Price Proposal

Dear Jorge,

Referencing RMCF's email dated July 23, 2019 and the recent directive received from the CMB in the form of an email dated August 2, 2019 wherein option 2.1B was selected as the required drainage approach for the West Avenue Project, we include a detailed breakdown of the proposal in the amount of \$1,787,000 for your review and approval.

RMCF has reviewed in detail the differences between the 10 year storm drainage piping and structures pricing for the South 090 project contained within CO #3B and as recommended in CES's June 2019 Technical Memorandum presented to the City on June 28, 2019. RMCF performed a street by street re-analysis of the proposed work. The pricing is based on Model 2.1B (South to North - Appendices 16 and 17).

The following notes and clarifications apply to the proposed Change Order:

- The \$ presented above represents additions to current approved CO #3B.
- Credits have been provided where applicable.
- Conflict structures are not included in this estimate these issues will be priced based on finalization of the Utility Master Plan currently in progress.
- Additional cost has been added to account for Pipe sizing increases, impacts to production and equipment needs.
- Added structures and side street drainage particularly at the Alton Court interfaces to account for differences between AECOM (DCP) and CO #3B Model and the new CES Model concepts have been accounted for.
- Duration impacts have not been analyzed nor are a part of Change Order #4 time
 extension. RMCF will do everything in its power to hold the CO # 4 dates. However, the
 critical path remains through the drainage work and the approval of DERM. RMCF expects
 to submit 60% drainage design drawings by August 30, 2019.
- Segmented Construction Approach has been included in the added costs above.

RMCF would appreciate an expedited review and approval of this Change Order since the design work has commenced and the critical path of the project is through the design, permitting and construction of the drainage system.



3100 SW 15th Street Deerfield Beach, Florida 33442 Office:(954)426-1221

Fax:(954)426-1226

Please contact me if you require any additional information.

Sincerely,

Michael R. Fischer

CC:

Danny Mancini Tyson Di Petrillo Sabrina Baglieri

Attachments:

- RMCF Email Dated July 23, 2019
- CMB Email Dated August 2, 2019
- RMCF Spread Sheet and HCSS Detailed Estimate.



3100 SW 15th Street Deerfield Beach, Florida 33442 Office:(954)426-1221 Fax:(954)426-1226

City of Miami Beach 1700 Convention Center Drive Miami Beach, FL 33139

March 6, 2019 Sent Via Email

Attn: Jorge Rodriguez

Re: West Avenue North - 091

Subj: Generator Sets - 14th, Lincoln Road Pump Station

Item 14

Jorge,

Enclosed find our proposal to provide 4 - Generator Set located at Lincoln Road for your review and approval in the amount of \$1,044,168. The detailed proposal is a supplement to the budgeting proposal provided on May 24, 2018. The pricing for the Generator Set is \$94,000 higher than budget due to price increases realized by Pantropic, the proposed Generator supplier and the escalation of certain materials and labor costs for RMCF and our subcontractors and vendors.

Formal clarifications are contained within the CES proposal and RMCF's specific assumptions and clarifications are included below:

- Landscaping, MOT as required, platforms, fencing and gates were included under item 26
 Lincoln Road Pump Station.
- TECO will provide the gas main to within 20 feet of the Generator location
- Utility relocations are included for CMB utilities only as required under Item 26
- Architectural screening is not included
- The Gen Set is assumed to be within the ROW- no provision has been made for CMB building permits or acquisition of additional property.
- Generator is sized for six (6) 20,000 GPM pumps RMCF is proposing a Model C-32, 1250 KW.
- Pricing includes setting the Gen Set on the North side of Lincoln Road No provision to bridge the FPL ductbank on the South side of Lincoln Road is included.

Please contact me with any questions or if additional information is required.



3100 SW 15th Street Deerfield Beach, Florida 33442 Office:(954)426-1221 Fax:(954)426-1226

Sincerely,

Michael R. Fischer, COO.

Ric-Man Construction Florida, Inc.

CC:

Tyson DiPetrillo Chris Mancini Sabrina Baglieri

Attachments:

- CES Proposal
- Pantropic Quotation
- RMCF Costing Activity Report Summary



3100 SW 15th Street Deerfield Beach, Florida 33442 Office:(954)426-1221 Fax:(954)426-1226

City of Miami Beach Capital Improvement Projects Office 1700 Convention Center Drive Miami Beach, FL 33139

November 19, 2020 Sent Via Email

Attn: Sabrina Baglieri

Re: West Ave 090/091

Subj: Budget Estimate for Commission Approvals Option 3A - WTS at 1671 West Ave Water Quality Wells and Pumping Systems

Sabrina,

Enclosed find the work sheets representing Ric-man Construction Florida, Inc. (RMCF) estimates for the upcoming work at the West Ave South (090) and North (091) projects.

As you are aware the Engineering fees for the above referenced design Change Orders were approved by the Commission as follows:

DESIGN FEES - Approved

- 091 North Option 3A WTS at 1671 West Ave \$275,000. It is noted that 50% of the value is being processed under #3 RCD by the City. The balance of \$137,500 will be funded under the Construction CO below.
- 090 Water Quality Design \$542,056 will be processed via a separate RCO #4
- 091 Water Quality Design \$1,001,781 will be processed via a separate RCO #4

CONSTRUCTION ESTIMATE - For Commission Approval

- 091 North Option 1671 3A WTS at West Ave \$2,827,054 (Attachment 1)
- 091 North Water Quality Construction \$9,177,000 (Attachment 2)
- 090 South Water Quality Construction \$3,028,000 (Attachment 3)



3100 SW 15th Street Deerfield Beach, Florida 33442 Office:(954)426-1221

Fax:(954)426-1226

Further, it is our understanding that the Model 2.1 B 10 - year Storm Water Upgrade – RCO #5 in the amount of \$2,858,000 for 090/091 is under submission for formal Change Order Approval as of November 17, 2020. The proposal was submitted on August 7, 2019.

In summary RMCF is anticipating formal additions to the Contract in the form of Contingency Draws and Change Orders as follows:

090 South

Water Quality Design -	\$542,056
* Water Quality Construction -	\$3,028,000
Model 2.1B - 10-Year Storm Upgrades	\$1,070,000
Total 090 South	\$4,640,056

091 North

Water Quality Design	\$1,001,781	
* Water Quality Construction	\$9,177,000	
Model 2.1B - 10-Year Storm Upgrades	\$1,788,000	
Option 3A WTS - 1671 West Ave	\$137,500	(Contingency Draw)
Option 3A WTS - 1671 West Ave	\$2,827,054	(
Total 091 North	\$14,931,335	

It should be understood a time impact analysis is yet to be finalized based on the delays experienced since December 2019. And referencing RMCF's letter to the City dated January 29, 2020, remaining outstanding elements of change - over and above the foregoing items are:

- Bay walk Removable sections dictated by 1450 Lincoln RD easement terms.
- Harmonization identification for ROW and private property encroachments, completed on 11/16/20.
- Encroachment/Harmonization relief for residents as determined by the City.
- Harmonization effort and re-designs as dictated by current Resolution and future revisions.
- Inverted crown between 16th St and Lincoln at Alton Ct.
- · Inverted crown at Lincoln Ct.
- Re-design Lincoln Rd West of Bay Rd due to Option 3A WTS changes.

^{*} Pricing subject to finalization of Geotechnical survey and report of secant pile locations, a function of the Water Quality Design Change Order.



3100 SW 15th Street Deerfield Beach, Florida 33442 Office: (954)426-1221 Fax: (954)426-1226

Please contact me with any questions or additional information required.

Sincerely,

Michael R. Fischer, COO.

Ric-Man Construction Florida, Inc.

CC:

Danny Mancini Tyson DiPetrillo Jorge Rodriguez Jose Caraballo

Attachments:

#1: 091 North Option 3A at 1671 West Ave – Estimate Summary #2: 090/091 North & South Water Quality Construction – Estimate Summary

- January 29, 2020 RMCF Letter to City of Miami Beach

- Map of 090/091 See Cont. Pile & Well Layout (2 ea.)

West Ave 091				
WTS Option 3A	11/15/2020			
1				
1				
1	Item	Description	Amount	Notes
1				6300
1	1	Force Main- 1671 west to 17th St	2000000	The second secon
	2	Transition Box at Pump discharge	> 525,000.00	Currently DIP restrained: 48" (3 ea)
	-	Designate House L	145,000.00	Precast with flap valves
	I	Drainage Opgrade - Lincoln to 1671	3 496,000,00	36"36"
1	9	Landscaping/Renovations at parking lot and 17th St	0000000	30 RUP-INCI all roadway work and restoration
	S	Pump Motor change to 150 HP	00'000'69	
	9	Mill and navo nurting last	00:000:01	Includes panel changes, wring etc.
	T	Date Parking 101	\$ 50,000.00	The second secon
-		Dissipator size increase	50,000,00	
	80	Sea Wall mods at 17th st- for Dissipator	00.000.00	To account for 17th st dischipe volumes into canal
	6		3 145,000.00	The same of the sa
	10	Character and The Character and Character an	5 5,000 00	The second secon
	1	Structural and Framing for Screening w/FND, et al	\$ 610,000.00	Incl FPI vaule & harmon wall
	T	Aluminum Screen	\$ 122,554.00	Bubble serves 275
	T	Field Supprt costs and Supervision	\$ 291,000.00	20.00
1	13	Lincoln RD Wall Upgrade	\$	(activities in a contract of the contract of t
			7 7 550 554 70	THE WORLD IN BASE DIG- INCREASE to S. ZNAVD
	14	Engineering	2,039,334,00	
	15	Borings/Stife	3 137,500.00	50 % of balance - rest with contingency draw
	T	200,000	30.000.00	Needed to confirm Cofferdam /tremie and structural des
	-			D P NO TO THE TOTAL OF THE TOTA
		lotai		

- 1	Water Quality Proposal - West Ave - 090/091		1				
						11/17/2020	
	Hot.					0707/14/44	
				090- South		091 North	
		Qu	Quantity		Citation		GUEST. P. M.
- 1	Mobilization (Parent 11 to 12						TOTAL DENCH, FLORIS
	modification / Demodifization/Site set up		m	\$ 258,600.00	7	\$ 739,200.00	7. 7
	15' Dia Secant pile Structures		9	\$ 1,582,400.00	ct.	\$ 2 644 000 00	
	20' Diameter Secant Pile Structures						
1 1	Salono de la companya		0	\$	q	\$ 2,596,000.00	
	Mechanical - Fit out/ structures/Misc items		m	\$ 378,000.00	7	\$ 584,200.00	
	Pumping units - 25 HP with Control Panels		3	\$ 375,000.00	5	\$ 625,000.00	
	Pumping Units 60 HP with Control Panels		0	\$	3	\$ 437,000.00	
	Platforms/Landscaping, Fencing		3	\$ 55,000.00	7	\$ 114,000.00	
	Electrical & Controls		~	135 000 00			A CONTRACT OF THE CONTRACT OF
	100' Wells		11		1	\$ 327,900.00	
			8	244,000.00	13	\$ 1,109,700.00	
1 1	Total Budget Price		S	3,028,000.00		\$ 9,177,000.00	
1	Notes		\parallel				
-+-	Sudget pricing based on						
1	Continuous operation anticipated separate from Segment of Section for Settling and Wet well structures. Pricing subject to change upon completion of Geotechnical process.	cant circular construction fo	or Settling	and Wet well struc	tures- Pricin	g subject to change up	on completion of Geotechaical recore
-	Anticipated sequence of Construction:	Dur in Cal days	or base pr	ice as necessary.			The state of the s
-		74	+			1	
-	Segment 2 South- 1 Loc	40	-	-			
. 0.	Segment 3 North - 2 Loc	40					
-	Segment 6 North- 2 Loc	08	+				
01	Segment 5 South- 1 Loc	80	+				
01	Segment 9 North- 1 Loc	7.4					
-	Well pricing based on 100' depth		1				
-	Segments of Roadway (full width) will be closed to thru tra	iffic at each location- 80 'L	50' W co				
-	Critical path impacts will be evaluated for overall time extension request pending finalization of CO pricing in content with 34 wars on	ension request pending finalization of CO pricing in concert with 34 wars co	ization of	CO pricing in conce	or tocation	for Secant construction	
- 1	PARCECCES AND AND AND A SERVICE OF THE SERVICE OF T	y 2020 report and subject t	O DERM	approval.	A WE ISH I	43.00	
- 14	Flortrical Society 2010 Proceeding water quality re	equirements in excess of the well capacity detailed in the February CFS Record	e well car	pacity detailed in the	February	FC Boom	
14	Allowance for landscaping seconds.	hin 10' of new panel location	Suc		A second	To report	
14	Access hatches are standard Hold of the second pareits and passive relief system, only only.	assive relief system, only or	. VIr		-		The state of the s
	The state of the s						



3100 SW 15th Street Deerfield Beach, Florida 33442 Office: (954)426-1221 Fax: (954)426-1226

City of Miami Beach Capital Improvement Projects Office 1700 Convention Center Drive Miami Beach, FL 33139

January 29, 2020 Sent Via Email

Attn: Sabrina Baglieri

Re: West Ave 090/091

Subj: CO Status and Path Forward

Dear Sabrina,

In conjunction with the upcoming Change Order Request we are preparing for the 15 well water quality issue (DERM) directed by Public Works, we provide below the status of pending changes and comment on the project overall. This information is compiled for three (3) reasons; (1) to ensure we remain on an expedited path to issuing the necessary documents for billing purposes, (2) to communicate to City leadership of the impacts in both time and cost as a result of these requests and, (3) to suggest a reasonable, doable path forward.

Pending Changes:

Change Order 5 North and South Non-Compensable

Time impact through December 2019 CPM update - re-submitted on 1/8/20 for 986 and 1,265 calendar days for 090 and 091, respectively.

Change Order 6 North and South \$2,858,000

Model 2.1B Drainage System Upgrades - Submitted on 8/7/19. The further upgrades in pipe sizes and structures are required pursuant to the CES 10-year model study (completed in June 2019) to AECOM's 10-year drainage map which recommended increases in pipe sizes under CO 3B. The original DCP specified pipe sizes and structures per 5-year criteria.

Change Order 7 North

\$1,398,554+



3100 SW 15th Street Deerfield Beach, Florida 33442 Office:(954)426-1221 Fax:(954)426-1226

Median Concept at Lincoln Rd for the pump station power and control facilities and addition of emergency generator. Added features include a Plant wall, Screening, Garden/Park concept at Lincoln Road End and the movement of the structures 200 feet or 1,000 feet to the west along Lincoln road between Lincoln Court and Bay Road or at the Alton Road intersection, respectively. - Budget pricing was submitted on 9/20/19.

Change Order 8 North and South \$11M-\$17M

Addition of 15 Water Quality Wells and settling basins with pumping systems to improve water quality along the West Avenue corridor per DERM.

The range in pricing for the 15 well design is due to the various methods we are currently vetting. The primary cost is not the well itself but the 90 second retention time required before pumping into the 100-foot-deep wells translates to extensive and deep settling structures to meet DERM criteria for water quality, and protection of the wells long term functionality. (15 wells with 11 settlement structures - 9 at 2,000 GPM and 2 at 6,000 GPM = 30,000 GPM). Also explored was a single deep well with Youngquist Bros. – a deep well specialist. We discussed the possibility of a single 3,000 foot 36" well capable of handling 30,000 GPM. Their budget estimate is in the \$17M range.

RMCF and CES are looking for ways to optimize the well design by analyzing circular settlement structures using "in the wet" Secant pile or "dig and sink" methods as an alternative to conventional Cofferdams w/ tremie seals for the rectangular structure design. The current settlement structures (11EA) are 30' deep with a footprint between 31' and 40' long x 11' wide-all contained within the ROW. The size and complexity of a sealed cofferdam at 11 locations is daunting.

Change Order 9 North

\$ TBD

Inverted crown at Lincoln Ct as requested by DPW to re-design road elevations to deal with the dip and its effects on the low property at 1441 Lincoln Ct.

Change Order 10 North

\$ TBD



3100 SW 15th Street Deerfield Beach, Florida 33442 Office:(954)426-1221 Fax:(954)426-1226

Inverted crown between 16^{th} St and Lincoln at Alton Ct to adjust elevations and drainage design to accommodate the new commercial development along Alton court outside of DCP requirements.

Change Order 11 North and South \$TBD

Harmonization Effort - resolution of drainage issues and encroachment (licensing Agreements) – reference CIP memo dated 1/16/20.

New requirements over and above agreements under the DCP and CO 3B include:

1. Mapping Encroachments within ROW on Harmonization drawings.

2. FFE studies of individual properties above and below new crown of roadway.

 Developing criteria for identifying potential flooding scenarios based on new crown elevation of roadway and its effect on individual properties such as pools, elevator entry, garage entry, green areas, storage facilities, parking lots, electrical rooms, etc.

 Individual analysis and information gathering of individual property Storm Water existing drainage conditions, rain leaders, wells, piping, etc.

 Future costs to relocate/remove encroachments within ROW and add or correct drainage within properties based on Licensing Agreements and past City practices or waivers outside of DCP requirements.

 Adjust harmonization designs to permit encroachments within and without ROW such as parking, structures, gates, fencing walkways, trees, etc. or other elements to stay within the ROW or properties and the added work, if any, associated therewith.

Notwithstanding the implications of water quality issues City wide, it is important to understand and communicate that the current pending Change Order status is approaching another \$20M+ to put all these change requests into effect.

As we approach 100% billing capacity for the current design concepts RMCF and CES are continuing to design and develop these added concepts (as directed by the City) without a formal CO from which to bill under. A method of dealing with this reality should be determined to ensure momentum on these issues is not compromised in any way.

Also considering the delays we are about to experience with gaining full segment approval from homeowners due to harmonization (Licensing Agreements), drainage, flooding concerns and directives for dealing with single and multiple family hook-ups, we recommend a limited NTP to commence the installation of the Lincoln Road Pump Station and Generator Sets at 5th, 6th, 10th, 14th and 17th St while the harmonization and water quality issues are worked out.



3100 SW 15th Street Deerfield Beach, Florida 33442 Office:(954)426-1221

Fax:(954)426-1226

The logic here is that all these installations are within City ROW (6th may be an exception) and the Lincoln Road PS location will not change. Impacts to private property will not be affected i.e. road raising and harmonization issues. Access will be provided at all times. Proceeding without a Class 2 permit at the Pump Station would require DERM permission but, considering the 15 well water quality concession negotiated by the City, a conditional permit may be arranged. In this way the City and its residents may see progress shortly as opposed to a longer drawn out approval process.

We are happy to meet with you, David, Nelson and Roy at any time to review these matters and look to your guidance on timing and approach.

Regards,

Michael R. Fischer, COO.

Ric-Man Construction Florida, Inc.

CC;

Danny Mancini
Tyson DiPetrillo
Nelson Perez-Jacome
David Martinez
Roy Coley
Jose Caraballo - CES
Jorge Rodriguez



WEST AVE - PROPOSED CONSTRUCTION SEGMENTS - SOUTH 090

Ric-Man Construction Florida, Inc. 3100 SW 15th Street Nort A Deerfield Beach, FL 33442



(954) 426-1221 (954) 426-1226



Michael Fischer

From:

Perez-Jacome, Nelson < NelsonPerez-Jacome@miamibeachfl.gov>

Sent:

Friday, November 15, 2019 4:19 PM

To:

Tyson DiPetrillo

Cc:

Evora, Mariana; Pena, Giancarlo; Soto, Luis; Michael Fischer; Jose A. Caraballo, P.E.;

Baglieri, Sabrina; Rodriguez, Jorge

Subject:

Re: 100% Drainage Design Submittal

Hi Tyson,

We appreciate all the work the team has put in to date. However, last week I had a conversation with Danny and Mike regarding certain changes to the scope of the contract. Specifically, changes that would address DERMs permitting requirements and improve water quality for the basin.

Our team at city is working out the conceptual details so we can provide them to you and your design engineer to further elaborate. Please hold off on any formal submittals, as we will not proceed to permitting without these changes.

Thank you.

Nelson Perez-Jacome, PE
City Engineer
PUBLIC WORKS DEPARTMENT
MIAMIBEACH
1700 Convention Center Drive, Miami Beach, FL 33139

Tel: 305.673.7080 www.miamibeachfl.gov

On Nov 15, 2019, at 4:10 PM, Tyson DiPetrillo <tdipetrillo@ric-manfl.com> wrote:

[THIS MESSAGE COMES FROM AN EXTERNAL EMAIL - USE CAUTION WHEN REPLYING AND OPENING LINKS OR ATTACHMENTS]

Good afternoon Team-

RMCF has addressed the 90% drainage comments received and submitted the 100% Drainage Design (Permit Set) via e-builder for approval. We are prepared to bring the hard copies for CMBPW stamps and pick-up the signed permit application to make a formal submission to DERM and ERP...please advise when the PW team is available to review and stamp the drawings, thank you.

Tyson DiPetrillo

Project Manager

<image001.jpg><image002.jpg>

RIC-MAN Construction Florida, Inc.

3100 SW 15th Street, Deerfield Beach, Fl 33442 Office: (954) 426-1221 | Fax: (954) 426-1226

Cell: (954) 448-6994 www.ric-manfl.com tdipetrillo@ric-manfl.com

CES Consultants, Inc. West Avenue Phase II, Miami Beach



Meeting Type: Drainage Meeting

Date: Wednesday, October 30th, 2019

Attendees: Nelson Perez-Jacome - CMB PW

Luis Soto – CMB PW Mariana Evora – CMB PW Sabrina Baglieri – CMB CIP Tyson DiPetrillo – RMCF Jose Caraballo – CES Erik M. Alcantara – CES

Location: City of Miami Beach - Public Works Department

1700 Convention Center Drive, Miami Beach, FL 33139

Discussion Items:

1) Meeting to discuss drainage design and the approach towards DERM permitting

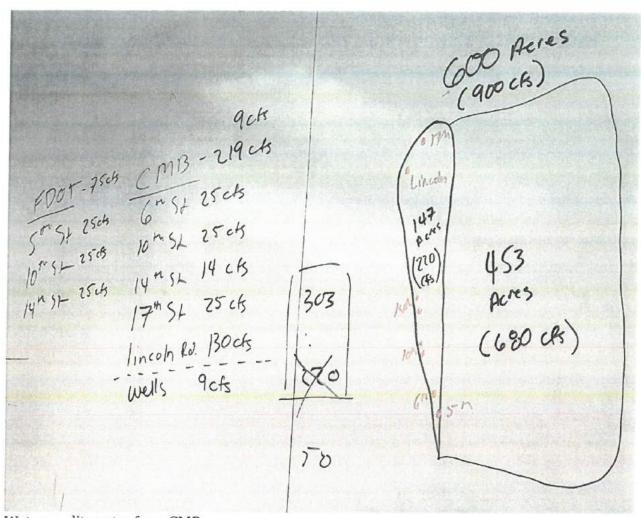
2) Current Issues:

 RMCF / CES were directed through the DCP to provide yard drains for all properties within the project area.

- ii. A resolution from the CMB Commission established providing yard drains for those residential properties which will at the end of the project have a FFE below the crown of the road. RMCF / CES received this directive and proceeded to design the drainage system under this directive. RMCF / CES performed additional surveying services to capture all FFE within the project area and compare them with the proposed crown of the road. Once this was established, RMCF / CES performed additional investigation of existing private property drainage permits to further reduce the number of properties that will require yard drains. The final tally was 68 properties. The RMCF / CES analysis did not distinguish between commercial and residential properties, only a comparison between FFE and Crown.
- iii. A new directive has been issued today to include a yard drain to all properties within the West Avenue Basin. RMCF / CES pointed out that the West Avenue project does not have enough water quality to handle the Right of Way and all private properties. CMB requested that we combine all treatment capacity from all nearby pump stations.

3) Resolution to Issues:

- a. CMB and RMCF / CES were all in agreement that the model and subsequent design provides sufficient conveyance for the 10-year / 24-hour storm event for the entire West Avenue basin (106 Acres for West Avenue and 41 Acres for Alton Road). The issue at hand and the reason for the meeting is to discuss the water quality approach during permitting.
- b. During the meeting, RMCF/CES were instructed to evaluate water quality for the entire project area.
 - i. RMCF / CES were instructed to combine all of the water quality treatment capacity (6th Street, 10th Street, 14th Street, and 17th Street; CMB and FDOT pump stations) so as to prove that in a worst case scenario, there is enough treatment capacity to manage the water quality for the entire West Avenue Basin (Right of way and all private property parcels). CMB will provide information regarding the basin for each pump station. In the event that there is not sufficient information to define the basins for each pump station, CMB will provide RMCF / CES with a letter defining each basin for each pump station. Everybody was in agreement that the information required is for the basins as per the design of each pump station, and not the influence of everything to the east of Alton Road (The Flamingo Basin Area). Everything to the east of Alton Road will be included in future improvements.
 - ii. RMCF / CES were instructed to incorporate yard drains to all properties within the project area. Additionally, CMB requested to include yard drains at all sides of a property that face a right of way. It was made clear in the meeting that CMB does not intend to provide a yard drain to all properties. They will only provide yard drains for those properties impacted negatively by these stormwater improvements. The reason for all the yard drains is to present DERM with the worst case scenario, and assure them that there will be enough water quality for any unforeseen cases.
 - iii. CMB directed RMCF to address the CMB PW comments, incorporate all yard drains (as discussed above), and address the water quality (as defined above) and quickly submit to DERM to begin to receive feedback. They also requested to conduct as many meetings with DERM as DERM will permit to keep an open dialogue and information flowing in both directions.
 - iv. CMB also mentioned that they have a meeting with DERM today about a separate topic. But, they will discuss this project with DERM and relay any new directive to the RMCF / CES team.
 - CMB requested that the RMCF / CES team provide an elevation for the HGL for each property.
 - vi. CMB requested that RMCF / CES prepare an additional permit application with a CMB signature line for Eric Carpenter.
 - vii. All of these requests are outside of our original scope of work and as such RMCF / CES will execute



Water quality notes from CMB



3100 SW 15th Street Deerfield Beach, Florida 33442 Office:(954)426-1221 Fax:(954)426-1226

City of Miami Beach 1700 Convention Center Drive Miami Beach, FL 33139

October 31, 2019 Sent Via Email & U.S. Mail

Attn: Sabrina Baglieri

Re: West Avenue 090/091

Subj: Water Quality and DERM Class 2 Drainage Permit

Dear Sabrina,

Ric-Man Construction Florida, Inc. (RMCF) and its Lead Design Consultant, CES met with CIP and Public Works on October 29, 2019 and again on October 30, 2019 to discuss the submission of the 90% drawings to DERM to commence the Class 2 Drainage permit process. The minutes of the October 30 meeting are attached as well as a letter from CES dated October 31, 2019 detailing the deliverables needed by CES to complete the calculations requested by the City on water quality for the West Avenue project. Details were reviewed relative to comments made by the City and changes proposed/requested involving water quality on the 90% drawings as well as general corrections/comments to the drawings which have been deemed necessary before making the formal Permit application to DERM.

As the City is aware, the contract DCP removed any responsibility for Drainage design from RMCF's contract. Pump Station capacity, treatment structure sizing, piping sizes and routing were provided based on a drainage report supplied by others. The DCP clearly stated "The CMB will be responsible for this report and any changes that are required during the permit process" (DCP21 - Para 5). Moreover, the City continued "The size of the proposed storm water trunk lines along West Ave, Bay Rd and Lincoln Rd is fixed and shall not change unless approved by the City Engineer after the project is awarded" (DCP21 - Para – 5). The Water Quality issue was locked in as detailed under Para 6 - "Storm Water Pump Stations" of the DCP wherein it states on page 26 of the DCP "The treatment structure designed to treat a minimum of 50 CFS" solidifies the water quality requirements RMCF was obligated to provide at that time.

RMCF's sole responsibility relative to Drainage was to finalize the drainage profile to create a positive system with slopes designed to provide a minimum velocity of 2 feet per second based on full pipe flow at a value of 0.012 (Manning's Equation). Consequently, drainage volume and water quality were carved out of RMCF's original Design Build scope. As we now know the criteria specified by the City in the DCP was based on a 5-year design storm event formulated by its consultant AECOM (Later revised to 10-year for RMCF pricing).

Subsequent to the "Pause" (December 2017 – December 2018) which was initiated by the City to study additional measures and recommendations from the Commission sponsored ULI effort, RMCF was requested to provide a full and complete hydrologic/hydraulic (H&H) model based on a 10-year, 24 hour storm event and provide recommendations to the City for any changes to the current proposed design in March 2019. In RMCF's proposal under Appendix 1 "Project Requirements"



3100 SW 15th Street Deerfield Beach, Florida 33442 Office:(954)426-1221

Fax:(954)426-1226

and Assumptions," Item 8 - water quality modeling or design was excluded (See Attachment). The City accepted RMCF's proposal in the form of Change Order 3A for both 090 and 091. In June 2019 RMCF issued its Technical Report with several options or alternatives the City could undertake to deal with volume of water, only. Water quality analyses were not included in the study. The City elected Alternate 2.1B in August of 2019 and RMCF provided proposals for the changes to the AECOM 10-year Model dated February 20, 2019 (the subject of items 5 and 17 of CO 3B for 090 and 091) resulting in a proposal dated August 7, 2019 for added upsizing of drainage pipe sizes, and additional structures. This proposal is pending a formal Change Order.

RMCF and CES are proceeding in good faith to assist the City in addressing the "water quality" issues which have now come to light based on DERM representations to RMCF, CES and the City in various forums.

Consequently, RMCF hereby notifies the City that pursuant to Contract Article 11 "Changes in the Work" the effort underway and potential resultant design and construction changes constitutes extra work. As such RMCF specifically reserves its right to added time and cost, the full implications of which, are not known at this time.

Current anticipated/known changes include:

- Water quality calculations and analysis as documented in CES Memo dated October 30, 2019.
- Design and Construction of a Jockey Pump and Well System at the Lincoln Road Pump Station
- Capacity increase of the CDS Treatment Units includes equipment and depth changes at the structures.

As additional work items become known RMCF will notify the City accordingly.

Please contact me with any questions you may have

Sincerely,

Michael R. Fischer, COO.

Ric-Man Construction Florida, Inc.

CC:

Danny Mancini Tyson DiPetrillo Jose Caraballo Jorge Rodriguez

Attachments:

- Meeting Minutes dated 10/30/19
- CES Letter dated 10/31/19



3100 SW 15th Street Deerfield Beach, Florida 33442 Office:(954)426-1221

Fax:(954)426-1226

- DCP Pages 21 and 26

- CES March 2019 Modeling Proposal.

Michael Fischer

From:

Michael Fischer

Sent:

Friday, March 27, 2020 3:34 PM

To:

Perez-Jacome, Nelson

Cc:

Evora, Mariana; Baglieri, Sabrina; Rodriguez, Jorge; Danny Mancini; Tyson DiPetrillo

Subject:

West Ave Wells Proposal Detail

Attachments:

Water Quality- Proposal Detail - West Ave.docx

Nelson

Per our meeting yesterday enclosed find an expanded proposal for design of the Water Quality Well systems pursuant to RMCF's February 10, 2020 detailed submission as revised on February 18, 2020 and modified on March 5, 2020. As discussed RMCF will wait for formal direction from CIP to proceed with the design development .

Upon release to design we anticipate 90 days to complete the effort but will submit 30% and 60% designs to DERM as deemed necessary by the City to secure approvals by the Agencies on our approach. At the 30% mark (approximately 45 days from NTP) RMCF will provide a firm lump sum price along with schedule impacts via CPM analysis for the construction of the well systems.

Please advise on the acceptability of our proposal and provide direction to move forward as soon as practicable.

Regards,

Michael R. Fischer, COO.



RIC-MAN Construction Florida, Inc.

3100 SW 15th Street, Deerfield Beach, Fl 33442 Office: (954) 426-1221 | Fax: (954) 426-1226

Cell: (703) 732-7717 www.ric-manfl.com MFischer@Ric-manFL.com

rds

Mike

City of Miami Beach

Design / Build Services for West Avenue Improvements Phase II North and South of 14th Street

2016-090-KB

2016-091-KB

Water Quality Drainage Wells Design
Scope of Services

March 27, 2020

Prepared By:



880 SW 145th Avenue, Suite 106 Pembroke Pines, Florida 33027



INTRODUCTION

At the request of the City of Miami Beach, CES Consultants, Inc. (CES) is pleased to submit this proposal to perform the design of 11 water quality facilities throughout the West Avenue project area. The design is based on discussions with City staff, an analysis performed by the RMCF DB Team, and a directive provided by the City of Miami Beach.

The design will expand on the conceptual design prepared during the analysis phase of this effort. The water quality design is for 11 individual stormwater lift stations that will pump stormwater into 15 shallow drainage wells. The shallow drainage well depth will be approximately 100 feet, and the pumps will simply produce a pressure similar to four (4) feet of head.

The system will collect a portion of the stormwater from the main lines on West Avenue and Bay Road and convey it to an underground settling tank. These tanks will be designed to retain the stormwater for 90 seconds, at which point, the stormwater flows into a wet well. A single pump will be located inside each wet well and pump the stormwater into drainage wells. The discharge piping will have a passive relief system to assure that the pressure equivalent to four (4) feet of head is not exceeded.

Each of the 11 systems that will be located throughout the project area. Each system will have unique features due to the variation in above and below ground features at each location, as well as, the varying connection points along the main system on West Avenue and Bay Road. Due to these factors, each system will require a complete design.

DESCRIPTION OF SERVICES

Services to be provided shall include, but are not limited to, the following activities:

- 1. Perform soil borings at each location.
- Development of complete engineering plans for each of the 11 systems. Plans will be submitted to CMB at 30%, 60% and 90% for review, including informal reviews with DERM. IFC package will be prepared once all permits are issued.
- 3. Preparation of permit package, and all necessary meetings and revisions to attain a permit. Permit fees are not included.
- 4. Preparation of IFC plans once all permits are issued by the regulatory agencies.
- 5. Revision to the stormwater model to incorporate this water quality component.
- 6. Revision to the drainage report to incorporate this water quality component.
- 7. Revision to stormwater drainage plans. Adjustment to the stormwater plan to make connections to the water quality systems.
- 8. Revision to landscaping plans. Adjustment to the landscaping plan to make space for the control panels.



9. Revision to potable watermain plans. Relocating a segment of watermain along Lincoln Road to make space for the water quality system.

10. Revision to sanitary sewer plans. Relocating a segment of sanitary sewer along Lincoln

Road to make space for the water quality system.

11. Engineering Services During Construction

GEOTECHNICAL INVESTIGATION

CES Consultants, Inc. shall prepare a listing of the specific geotechnical investigation requirements specific to the scope of work. The Design Consultant will manage the geotechnical task. The goals and objectives of the geotechnical investigation may include the following:

1. Identify soil types within the project area

2. Identify the characteristics and properties of the soils present

3. Use available soil characteristics, properties and potential project geometrics to identify possible geotechnical concerns

4. Provide geotechnical recommendations for engineering design

5. Evaluate groundwater conditions

Upon completion of the geotechnical investigation, a report will be prepared and submitted with the 30%. The report shall include the following:

1. Brief description of soil conditions observed in the field and in the laboratory

2. Conclusions and recommendations regarding:

- Primary geotechnical engineering concerns and mitigating measures, as applicable
- Site preparation and grading including treatment of weak, porous, compressible b. and expansive surface soils and the construction of fills.

Preparation of subgrade and aggregate base for pavement areas C.

Pavement sections (if required) d.

One (1) soil boring to a depth of 100 feet below the top of ground elevation at the location of the proposed wet well. If additional soil borings are required, CES will request additional funds to obtain soil information.

DESIGN AND PLANS PERMITTING

CES Consultants, Inc. will prepare and submit design plans to CMB for the following phases:

1. 30% Design Submittal

For the development of this sub-task, CES Consultants, Inc. will provide the following services:

Perform a water quality analysis of the site.

Participate in one (1) informal meeting with DERM to discuss conceptual design.

Develop alternative options to satisfy the water quality needs.

Develop conceptual drawings of the system, and identify locations for installation.



- Revise the drainage model utilizing ICPR4.
- Perform engineering calculations to define the size of structures and pumping requirements.
- Preparation of system curve and pump selection.
- Perform a utility conflict evaluation and coordination. Identify possible conflicts and necessary resolutions.
- Develop 30% plans for each of the 11 independent water quality systems.

The water quality system design to be presented will include the following drawings sheets (min. 35 sheets per system; 385 total sheets) for each of the 11 systems:

· General:

- o G1 Cover and Index
- o G2 General Notes

· Civil:

- C1 Existing Conditions and Demolition Plan
- o C2 Proposed Site Plan
- o C3 Proposed Section Plan
- C4 Grading and Restoration Plan
- C5 Standard Details
- o C6 Well Drill Plan (Not part of this submittal)

Mechanical:

- o M1 Mechanical Notes
- o M2 General Plan
- M3 General Profile
- M4 Settling Tank Plan and Sections
- o M5 Wet Well Plan and Sections
- M6 Drainage Well Plan and Sections
- M7 Drainage Pipe and Force Main Profiles
- M8 Passive Relief System Profile
- M9 Mechanical Details

Structural:

- S1 Structural Notes
- o S2 General Plan
- S3 General Profile
- o S4 Settling Tank Plan
- S5 Settling Tank Section (Not part of this submittal)
- S6 Wet Well Plan
- S7 Wet Well Sections (Not part of this submittal)
- S8 Drainage Well Plan and Sections
- o S9 Control Slab (Not part of this submittal)
- o S10 Secant Piles Details (Not part of this submittal)
- o S11 Structural General Details

Electrical:

- o E1 Electrical Notes
- o E2 General Plan and Grounding
- E3 Equipment Layout and Sections (Not part of this submittal)
- E4 One-Line Diagram and Schedules (Not part of this submittal)



- E5 Controls Diagram (Not part of this submittal)
- o E6 RTU Installation (Not part of this submittal)
- o E7 Electrical Details

2. 30% Deliverables:

Provide 30% Design Plans as follows:

- One (1) Copy, 11" x 17" Design Plans.
- One (1) Copy of Draft Drainage Report
- One (1) Draft Geotechnical Report
- Electronic Submittal of Design Plans, Drainage Report, and Geotechnical Report (Uploaded to E-Builder)

3. 60% Design Submittal

For the development of this sub-task, CES Consultants, Inc. will provide the following services:

- Review and incorporate comments from CMB.
- Participate in one (1) informal meeting with DERM to discuss progress and direction of design.
- Develop a well drill plan.
- Prepare structural settling tank and wet well section plans.
- Develop secant pile details.
- Develop control panel slab.
- Finalize electrical equipment selection.
- Develop electrical equipment layout and sections.
- Develop controls diagram, one-line diagram, electrical schedule, and RTU installation.
- Develop 60% plans for each of the 11 independent water quality systems.

The water quality system design to be presented will include the following drawings sheets for each of the 11 systems:

- General:
 - G1 Cover and Index
 - o G2 General Notes
- Civil:
 - o C1 Existing Conditions and Demolition Plan
 - C2 Proposed Site Plan
 - o C3 Proposed Section Plan
 - o C4 Grading and Restoration Plan
 - o C5 Standard Details
 - o C6 Well Drill Plan
- Mechanical:
 - o M1 Mechanical Notes



- o M2 General Plan
- o M3 General Profile
- M4 Settling Tank Plan and Sections
- o M5 Wet Well Plan and Sections
- o M6 Drainage Well Plan and Sections
- o M7 Drainage Pipe and Force Main Profiles
- M8 Passive Relief System Profile
- M9 Mechanical Details

Structural:

- S1 Structural Notes
- o S2 General Plan
- o S3 General Profile
- o S4 Settling Tank Plan
- S5 Settling Tank Section
- S6 Wet Well Plan
- S7 Wet Well Sections
- S8 Drainage Well Plan and Sections
- o S9 Control Slab
- S10 Secant Piles Details
- S11 Structural General Details

Electrical:

- o E1 Electrical Notes
- o E2 General Plan and Grounding
- E3 Equipment Layout and Sections
- E4 One-Line Diagram and Schedules
- E5 Controls Diagram
- E6 RTU Installation
- E7 Electrical Details

4. 60% Deliverables:

Provide 60% Design Plans as follows:

- One (1) Copy, 11" x 17" Design Plans.
- One (1) Copy of the Revised Drainage Report
- One (1) Signed and Sealed Geotechnical Report
- Electronic Submittal of Design Plans, Drainage Report, and Geotechnical Report (Uploaded to E-Builder)

5. 90% Design Submittal

For the development of this sub-task, CES Consultants, Inc. will provide the following services:

- Review and incorporate comments from CMB.
- Finalize all aspects of design in preparation for permitting.
- Participate in one (1) informal meeting with DERM to discuss progress and direction of design.



Develop 90% plans for each of the 11 independent water quality systems.

The water quality system design to be presented will include the following drawings sheets for each of the 11 systems:

- · General:
 - o G1 Cover and Index
 - o G2 General Notes
- Civil:
 - o C1 Existing Conditions and Demolition Plan
 - o C2 Proposed Site Plan
 - o C3 Proposed Section Plan
 - o C4 Grading and Restoration Plan
 - C5 Standard Details
 - o C6 Well Drill Plan
- Mechanical:
 - o M1 Mechanical Notes
 - o M2 General Plan
 - o M3 General Profile
 - o M4 Settling Tank Plan and Sections
 - o M5 Wet Well Plan and Sections
 - o M6 Drainage Well Plan and Sections
 - o M7 Drainage Pipe and Force Main Profiles
 - o M8 Passive Relief System Profile
 - M9 Mechanical Details
- Structural:
 - S1 Structural Notes
 - S2 General Plan
 - o S3 General Profile
 - S4 Settling Tank Plan
 - S5 Settling Tank Section
 - o S6 Wet Well Plan
 - o S7 Wet Well Sections
 - S8 Drainage Well Plan and Sections
 - o S9 Control Slab
 - S10 Secant Piles Details
 - o S11 Structural General Details
- Electrical:
 - E1 Electrical Notes
 - o E2 General Plan and Grounding
 - E3 Equipment Layout and Sections
 - o E4 One-Line Diagram and Schedules
 - o E5 Controls Diagram
 - o E6 RTU Installation
 - E7 Electrical Details
- 6. 90% Deliverables:



Provide 90% Design Plans as follows:

- One (1) Copy, 11" x 17" Design Plans
- One (1) Signed and Sealed Drainage Report
- Completed permit applications
- Electronic Submittal of Design Plans and Drainage Report (Uploaded to E-Builder)

ASSUMPTIONS

This scope of work and deliverables are based on the following assumptions:

- At the end of each design deliverable (30%, 60%, and 90%), CMB will review the plans and forward review comments to the RMCF DB Team within 14 calendar days.
- The design team will use the existing project survey provided by CMB.
- · Permitting fees are not part of this scope of work or fee proposal.
- This scope of work and fee is based on the design of 11 independent water quality systems and a total of 15 drainage wells with a depth of 100 feet.



3100 SW 15th Street Deerfield Beach, Florida 33442 Office:(954)426-1221

Fax:(954)426-1226

City of Miami Beach Capital Improvement Projects Office 1700 Convention Center Drive Miami Beach, FL 33139 May 14, 2020 Sent Via Email

Attn:

Sabrina Baglieri

Re:

West Avenue 090 - South West Avenue 091 - North

......

Subj:

Water Quality Design Fee

Sabrina,

Enclosed find the revised Scope of Services proposal from CES based on comments received during our May 4, 2020 negotiation session. The write up has been expanded to include a more detailed scope of work, a Permitting Section (7), IFC Deliverable Section (8) and an expanded Assumption Section (9).

RMCF provided a draft Scope with drawings on February 10, 2020, a formal proposal with preliminary conceptual designs and well locations on February 18, 2020, a breakout proposal for 30% design development on March 5, 2020, an initial negotiation meeting on March 26, 2020 followed by an expanded proposal submission on March 27, 2020 and a final formal proposal on May 4, 2020 precipitated by the Commission's approval to proceed with the design development. Our price proposal remains as follows:

090 - \$542,056 091 - \$1,001,781

Notwithstanding the potential relocation of the Lincoln Road Pump Station to 1671 West Ave and pending a full Commission vote on June 26, 2020, RMCF strongly recommends the City release RMCF to proceed with at least the South Water Quality design effort since the south will not be affected by the relocation of the pump station. We also recommend proceeding with the North since the drainage south of Lincoln Road will not be affected. We will ensure no overlap of design when and if the pump station is in fact relocated. The effort will save time overall.

Please contact me if you have any questions or require additional information. We request the issuance of a formal Change order and NTP to commence this important effort.

Sincerely/

Michael R. Fischer, COO.

Ric-Man Construction Florida, Inc.



3100 SW 15th Street Deerfield Beach, Florida 33442 Office:(954)426-1221 Fax:(954)426-1226

CC:

Danny Mancini Tyson DiPetrillo Jose Caraballo Jorge Rodriguez Nelson Jacome Perez

Attachments:

- May 13, 2020 CES Scope of Services
- RMCF Formal Pricing Submitted on 5/4/20

City of Miami Beach

Design / Build Services for West Avenue Improvements Phase II North and South of 14th Street

2016-090-KB

2016-091-KB

Water Quality Drainage Wells Design
Scope of Services

May 13, 2020

Prepared By:



880 SW 145th Avenue, Suite 106 Pembroke Pines, Florida 33027



INTRODUCTION

At the request of the City of Miami Beach, CES Consultants, Inc. (CES) is pleased to submit this proposal to perform the design of 11 water quality facilities throughout the West Avenue project area. The design is based on discussions with City staff, an analysis performed by the RMCF DB Team, and a directive provided by the City of Miami Beach.

The design will expand on the conceptual design prepared during the analysis phase of this effort. The water quality design is for 11 individual stormwater lift stations that will pump stormwater into 15 shallow drainage wells. The shallow drainage well depth will be approximately 100 feet, and the pumps will simply produce a pressure similar to four (4) feet of head.

The system will collect a portion of the stormwater from the main lines on West Avenue and Bay Road and convey it to an underground settling tank. These tanks will be designed to retain the stormwater for 90 seconds, at which point, the stormwater flows into a wet well. A single pump will be located inside each wet well and pump the stormwater into drainage wells. The discharge piping will have a passive relief system to assure that the pressure equivalent to four (4) feet of head is not exceeded.

Each of the 11 systems that will be located throughout the project area. Each system will have unique features due to the variation in above and below ground features at each location, as well as, the varying connection points along the main system on West Avenue and Bay Road. Due to these factors, each system will require a complete design.

It is important to note that each of the 11 individual systems requires a unique design for the sedimentation tank, the wet well, the passive relief system, and the associated piping. The uniqueness is due to variations in depth of the drainage systems, variations of above ground features, and the variations in existing utilities. All of these factors introduce complexities that require specific designs. Additionally, these individual designs require modifications to some existing utilities, and redesign of items that have completed designs. For example, we have identified the need to redesign the sanitary sewer line and the water main along Lincoln Road between the street end and West Avenue. We also need to modify the already completed stormwater drainage design in order to connect these water quality systems to the main drainage line. These individual designs, in conjunction with the redesign of other utilities, requires a significant amount of manpower and a significant amount of engineering to assure that the system will work safely and effectively.

DESCRIPTION OF SERVICES

Services to be provided shall include, but are not limited to, the following activities:



- Perform soil borings at each location.
- Development of complete engineering plans for each of the 11 systems. Plans will be submitted to CMB at 30%, 60% and 90% for review, including informal reviews with DERM.
- Preparation of permit package, and all necessary meeting and revisions to attain a permit. Permit fees are not included.
- 4. Preparation of IFC plans once a permit is issued by the regulatory agencies.
- 5. Revision to the stormwater model to incorporate this water quality component.
- 6. Revision to the drainage report to incorporate this water quality component.
- Revision to stormwater drainage plans. Adjustment to the stormwater plan to make connections to the water quality systems.
- Revision to landscaping plans. Adjustment to the landscaping plan to make space for the control panels.
- Revision to potable watermain plans. Relocating a segment of watermain along Lincoln Road to make space for the water quality system.
- Revision to sanitary sewer plans. Relocating a segment of sanitary sewer along Lincoln Road to make space for the water quality system.
- 11. Engineering Services During Construction

GEOTECHNICAL INVESTIGATION

CES Consultants, Inc. shall prepare a listing of the specific geotechnical investigation requirements specific to the scope of work. The Design Consultant will manage the geotechnical task. The goals and objectives of the geotechnical investigation may include the following:

- Identify soil types within the project area
- 2. Identify the characteristics and properties of the soils present
- Use available soil characteristics, properties and potential project geometrics to identify possible geotechnical concerns
- Provide geotechnical recommendations for engineering design.
- Evaluate groundwater conditions

Upon completion of the geotechnical investigation, a report will be prepared and submitted with the 30%. The report shall include the following:

- 1. Brief description of soil conditions observed in the field and in the laboratory
- Conclusions and recommendations regarding:
 - Primary geotechnical engineering concerns and mitigating measures, as applicable
 - Site preparation and grading including treatment of weak, porous, compressible and expansive surface soils and the construction of fills.
 - Preparation of subgrade and aggregate base for pavement areas
 - Pavement sections (if required)

One (1) soil boring to a depth of 100 feet below the top of ground elevation at the location of the proposed wet well. If additional soil borings are required, CES will request additional funds to obtain soil information.



DESIGN AND PLANS PERMITTING

CES Consultants, Inc. will prepare and submit design plans to CMB for the following phases:

1. 30% Design Submittal

For the development of this sub-task, CES Consultants, Inc. will provide the following services:

- Perform a water quality analysis of the site.
- Participate in one (1) informal meeting with DERM to discuss conceptual design.
- Develop alternative options to satisfy the water quality needs.
- · Develop conceptual drawings of the system, and identify locations for installation.
- Revise the drainage model utilizing ICPR4.
- Perform engineering calculations to define the size of structures and pumping requirements.
- · Preparation of system curve and pump selection.
- Perform a utility conflict evaluation and coordination. Identify possible conflicts and necessary resolutions.
- Develop 30% plans for each of the 11 independent water quality systems.

The water quality system design to be presented will include the following drawings sheets for each of the 11 systems:

General:

- o G1 Cover and Index
- o G2 General Notes

Civil:

- o C1 Existing Conditions and Demolition Plan
- o C2 Proposed Site Plan
- C3 Proposed Section Plan
- o C4 Grading and Restoration Plan
- o C5 Standard Details
- o C6 Well Drill Plan (Not part of this submittal)

Mechanical:

- o M1 Mechanical Notes
- o M2 General Plan
- M3 General Profile
- o M4 Settling Tank Plan and Sections
- o M5 Wet Well Plan and Sections
- o M6 Drainage Well Plan and Sections
- M7 Drainage Pipe and Force Main Profiles
- M8 Passive Relief System Profile
- o M9 Mechanical Details

Structural:

- S1 Structural Notes
- o S2 General Plan
- o S3 General Profile



- S4 Settling Tank Plan
- o S5 Settling Tank Section (Not part of this submittal)
- o S6 Wet Well Plan
- S7 Wet Well Sections (Not part of this submittal)
- S8 Drainage Well Plan and Sections
- S9 Control Slab (Not part of this submittal)
- o S10 Secant Piles Details (Not part of this submittal)
- S11 Structural General Details

Electrical:

- o E1 Electrical Notes
- E2 General Plan and Grounding
- E3 Equipment Layout and Sections (Not part of this submittal)
- E4 One-Line Diagram and Schedules (Not part of this submittal)
- E5 Controls Diagram (Not part of this submittal)
- o E6 RTU Installation (Not part of this submittal)
- o E7 Electrical Details

2. 30% Deliverables:

Provide 30% Design Plans as follows:

- One (1) Copy, 11" x 17" Design Plans.
- One (1) Copy of Draft Drainage Report
- One (1) Draft Geotechnical Report
- Electronic Submittal of Design Plans, Drainage Report, and Geotechnical Report (Uploaded to E-Builder)

3. 60% Design Submittal

For the development of this sub-task, CES Consultants, Inc. will provide the following services:

- Review and incorporate comments from CMB.
- Participate in one (1) informal meeting with DERM to discuss progress and direction of design.
- Develop a well drill plan.
- Prepare structural settling tank and wet well section plans.
- Develop secant pile details.
- Develop control panel slab.
- Finalize electrical equipment selection.
- Develop electrical equipment layout and sections.
- Develop controls diagram, one-line diagram, electrical schedule, and RTU installation.
- Develop 60% plans for each of the 11 independent water quality systems.

The water quality system design to be presented will include the following drawings sheets for each of the 11 systems:



General:

- G1 Cover and Index
- o G2 General Notes

Civil:

- o C1 Existing Conditions and Demolition Plan
- C2 Proposed Site Plan
- o C3 Proposed Section Plan
- o C4 Grading and Restoration Plan
- o C5 Standard Details
- o C6 Well Drill Plan

Mechanical:

- o M1 Mechanical Notes
- o M2 General Plan
- o M3 General Profile
- o M4 Settling Tank Plan and Sections
- o M5 Wet Well Plan and Sections
- M6 Drainage Well Plan and Sections
- M7 Drainage Pipe and Force Main Profiles
- M8 Passive Relief System Profile
- M9 Mechanical Details

Structural:

- o S1 Structural Notes
- o S2 General Plan
- o S3 General Profile
- o S4 Settling Tank Plan
- S5 Settling Tank Section
- S6 Wet Well Plan
- o S7 Wet Well Sections
- o S8 Drainage Well Plan and Sections
- S9 Control Slab
- o S10 Secant Piles Details
- o S11 Structural General Details

Electrical:

- o E1 Electrical Notes
- o E2 General Plan and Grounding
- E3 Equipment Layout and Sections
- E4 One-Line Diagram and Schedules
- E5 Controls Diagram
- E6 RTU Installation
- E7 Electrical Details

4. 60% Deliverables:

Provide 60% Design Plans as follows:

- One (1) Copy, 11" x 17" Design Plans.
- One (1) Copy of the Revised Drainage Report



- One (1) Signed and Sealed Geotechnical Report
- Electronic Submittal of Design Plans, Drainage Report, and Geotechnical Report (Uploaded to E-Builder)

5. 90% Design Submittal

For the development of this sub-task, CES Consultants, Inc. will provide the following services:

- Review and incorporate comments from CMB.
- Finalize all aspects of design in preparation for permitting.
- Participate in one (1) informal meeting with DERM to discuss progress and direction of design.
- Develop 90% plans for each of the 11 independent water quality systems.

The water quality system design to be presented will include the following drawings sheets for each of the 11 systems:

- General:
 - G1 Cover and Index
 - o G2 General Notes
- Civil:
 - o C1 Existing Conditions and Demolition Plan
 - o C2 Proposed Site Plan
 - o C3 Proposed Section Plan
 - o C4 Grading and Restoration Plan
 - o C5 Standard Details
 - o C6 Well Drill Plan
- Mechanical:
 - o M1 Mechanical Notes
 - o M2 General Plan
 - o M3 General Profile
 - M4 Settling Tank Plan and Sections
 - M5 Wet Well Plan and Sections
 - M6 Drainage Well Plan and Sections
 - o M7 Drainage Pipe and Force Main Profiles
 - M8 Passive Relief System Profile
 - o M9 Mechanical Details
- Structural:
 - S1 Structural Notes
 - o S2 General Plan
 - S3 General Profile
 - o S4 Settling Tank Plan
 - S5 Settling Tank Section
 - o S6 Wet Well Plan
 - S7 Wet Well Sections
 - S8 Drainage Well Plan and Sections
 - o S9 Control Slab
 - o S10 Secant Piles Details



- S11 Structural General Details
- Electrical:
 - o E1 Electrical Notes
 - E2 General Plan and Grounding
 - o E3 Equipment Layout and Sections
 - o E4 One-Line Diagram and Schedules
 - E5 Controls Diagram
 - o E6 RTU Installation
 - E7 Electrical Details

6. 90% Deliverables:

Provide 90% Design Plans as follows:

- One (1) Copy, 11" x 17" Design Plans
- One (1) Signed and Sealed Drainage Report
- · Completed permit applications
- Electronic Submittal of Design Plans and Drainage Report (Uploaded to E-Builder)

7. Permitting

For the development of this sub-task, CES Consultants, Inc. will provide the following services:

- Preparation of signed and sealed plans with CMB approval.
- · Preparation of signed and sealed drainage report.
- Participate in one (1) meeting with DERM at the 30%, 60%, and 90% design phases.
- Participate in three (3) meetings with DERM once the permit application is submitted. (This will include a meeting with a brief presentation of the project.).

8. IFC Deliverables:

IFC (Issued For Construction) plans are those that are issued once all necessary permits have been acquired. For the development of this sub-task, CES Consultants, Inc. will provide the following services.

- One (1) Copy, 11" x 17" Design Plans
- One (1) Signed and Sealed Drainage Report
- All necessary active permits
- Electronic Submittal of permitted Design Plans and Drainage Report (Uploaded to E-Builder)



9. Assumptions

For the completion of this effort, CES Consultants, Inc. has the following limitations and assumptions:

- Based on conversations with experienced drainage well contracts, we are assuming a capacity of 500 GPM per foot of head for each drainage well. Utilizing this historical data, we are estimating a total capacity of 2,000 GPM per well (4 feet of head).
- Due to space limitations within the right of way, we have maximized the number of drainage wells that can be incorporated into the project to 15 wells. This scope of work assumes 15 total drainage wells.
- We are estimating a total of six (6) meetings with DERM. In order to maximize the
 effectiveness of these meetings, we will participate in one (1) meeting per phase
 (30%, 60%, and 90%), and three (3) meetings once the permit application has
 been submitted.

Michael Fischer

From:

Michael Fischer

Sent:

Monday, May 04, 2020 12:18 PM

To:

'Baglieri, Sabrina'; Rodriguez, Jorge

Cc:

Tyson DiPetrillo

Subject:

Water Quality CO

Attachments:

Alternate 2- Wells For Water Quality- cost.xlsx; West Ave WELL design direct Cost.xlsx

Sabrina

Enclosed find RMCF work sheets in support of the Change Request. The submission from CES on 2/10/20 has not changed Total cost is:

090 \$542,056 091 \$ 1,001,781

Total \$ 1,543,837

FORATE 3 COMMENTS									
ALIERNAIE Z- CYLINDRICAL									
	Feb-20								
Rev 1-4/30/20	West Av	West Ave Project							
	Alternate 2 Wa	e 2 Water Qu	Alternate 2 Water Quality Wells - Cylindrical settlement and Separate pumping structure with shallow wells Budges Pricing	ettlement and Separat	e pumping structur	e with shallow wells			
		4							
Description	South 1990	Q	South-090	Taxab Con					
	RMCF		ŒS	lotal- 050	North 091	North 091 CES		Total 091	Comments
Design and Construction Inspection	ļļ.		\$476,112.00			v.	883,458.00		
Pre-design Investigation-revise drainage model									
Revise drainage report									
Storm Water WM re-designs									
Concept development									
30%,60%,90% Design - civil, elect, mech'l	S	8,408.00				-			
Subsurface investigations		The second second			5 13,	13,480.00			Spread sheet Item 3- Design /Constructability sessions
Surveying, Utility Interferences	w	3,332.00							MILITARY TO THE PARTY OF THE PA
Permitting - DERM, SFWMD, etc.	w	3.548.00			0 4	4,695.00			Spread Sheet item #1- Suprem field Suprem
MOT development						6,240.00			Spread Sheet item #6- permission Support
Construction Inspection, well certification									A CONTRACTOR OF THE CONTRACTOR
Meetings, Misc expenses As-built documentation									
Estimating/Pricing& Scoping	s	8,666.00			\$ 16,	16,468.00			
Subtotal	vs.	23,954.00	\$ 476,112.00		\$ 40.	40,884.00 \$	00 830 888		Spread Sheet item # 2- Estimating/Pricing? Scoping
Ins & Bond - 3%	es.	719.00	\$ 14,283.00		\$	100	26 503 00		
Subtotal	ev.	24,673.00 \$	\$ 490,395.00		\$ 42.		909.961.00		
RMCF Mark-up 10/5	45	2,468.00	\$ 24,520.00		\$ 4,	4,211.00 \$	45,498.00		
Subtotal Design and Coardination	s	27,141.00	\$ 514,915.00		\$ 46,	46,322.00 \$	955,459,00		
Total Change Request									

		TADION WAS USUITA	4/30/2020					
		RMCF Costs Well Design Development	velopment					
1	Items	Project Manager	Freeman					
1	Project	16 06	10 06	Estimator	ator	Superintendent	Administrator	Total House
	The second secon		-	36	16 06	16 06	16 06	DOLL HOOL
	nodque yawne	90. 00	24 40					
	Estimating/ Pricing & Scoping	16 24		40	H			
(m)	Design/Constructability Reviews	24 40			07 07	10 20	5 10	
	The control of the co	ŀ		16 24	16 24	24 40		
~	Permit Support	24 40						
	Totals			-	91		2	
	Rate	72 112	+	H	44 80	30		
	Total	0	575 575	585 585		1		655
		00,300,000 \$ 10,864.00	5 1,800 00 5 3,000 00	\$4,760.00 \$8,840.00	\$4,620.00 \$8,400.00	5 3,800.00 5 6,400.00	\$ 210.00 \$ 420.00	
L/I	Trucks/Exp. S10/hr	\$ 720.00 \$ 1,120.00	\$ 240.00 \$ 400.00		\$ 440.00 \$ app.on	0000		
	Subtotal 090	\$7,704.00	\$ 2,040,00	64 760 00		2 380.00 5 840.00		
	Subtotal 091	\$ 11,984.00	5340000	24,750.0U	\$ 5,060.00	5 4, 180.00	\$ 210.00	\$ 23 954 On
				Minero c	2 9,200.00	\$ 7,040.00	\$ 420,00	'n
								S 64 838 OC
1								
							-	-

Company Comp	TTLES	prejou	pect pect pect	ob		No Civil	chural	rical	nulic 1940	A9-0	monitor	-	Jagens / se	Jeußis-		HOL	-			
1 1 1 1 1 1 1 1 1 1 1 1	CONTRACT RATES	\$ 382.80	-	4 233.64		Sug 2	24 Engi	nbu∃ 5	Mydri Mengin	min al 4	CIAR E	Tuste Engine	CVD W			Retation		Fotal Fours	Total Loads.4	_
1 1 1 1 1 1 1 1 1 1	* Weier Quelity Analysis					Design	and Permitte	C Services &	hange Ore			120,041	116,00 5		189.50 \$	17.26	0	10		
State Designation between the control of the cont			2		1			Ħ	40	2	tem Oremage	Welly		1						
1			2		9 '	9			4		51	8		t	T	-	H	152	\$ 23,667.7	12
1			2		~	2 2	1	1	2			49	1	1	+	-	_	* 94		9.02
1	_		1	7	~	2			9	2	1	8			+	T	4	96		90.0
1	7 Storm Dramage Redesign				2	•				-		8 1	1	1	H	H	-	788		5
1				-	-	12				ŀ	1	9	-	-				3		06.0
1	So CM Design	1											-		H		2	2 92	-	77
1	Bo Structural Design		7	1	2	-			-	-	1									8
1	8d Electrical Design			-	1		130				1	9 9	1	1,2	H	-	-	-		
1	Prepare and submit 90% Wells Design		~	-	2	-	T	40	1	•		99	-	200	+			172		35
2	PACKAGE to CMB for Review								1	1	-	99	•	-	1			84	11,135.54	2
2	90 Shuttural Design		2	•	17	-		1										138		3
1	Bc Mechanical Design		~ ~	1	-	80	120	1	1	94	H	12	•	121		-				
2 4 2 2 4 4 2 2 4 4 100 34 4 100 34 4 100 34 4 100 34 4 100 34 4 100 34 4 100 34 4 100 34 4 100 34 4 100 34 4 100 34 4 100 34 34 34 34 34 34 34 34 34 34 34 34 34	Prepare and sident sport seed.		-	1	*					-	1	9 5		12	-	-	1	100		3
2	Package to CMB for Review					0		00			1	32		12	+		-	74		0
Preparation and 17	To Chill Design		16	-											1		H	- 8		5 5
Proportion and 12 4 2 2	10¢ Mechanical Design		-		7	1	100		I	34	-	34		-						T
Type Particles and 12 2 4 32 6 16 324 6 10 10 10 10 10 10 10	10d Electrical Design		7		2	-		1	1	1		16		-	1		H	7.4	2	1
Continue and Cont	DE Bla Chee		,	-	2	•		52	1	1	1	Z	•	-	+	1	-	142	\$ 27.64	8
Officerion and Afficiency an	Submittel		42	1	r		1	1			1	2		-			1	20	\$ 7,070 18	=
Milkerings				1					•	#	-	-	-	1	1	1			11.70	=
Varietings Var	SPWAD ERP Permit Modification and		•	~		٠			-		+	1	1	1	-			*	5 10.758.41	1 4
100 Meethors 2 2 4 7 7 7 7 7 7 7 7 7	Submittel 14 Coordination with Prescrition Assession			*		•			1	1	+	+	1	1	_			X	1	1
Non Macethorys 32 (19 19 Propost Constitution Macethorys and Management 19 2 2 2 2 2 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1	11e Well Certification Inspections		-			-	T	1	1	-					_	-	-	1	diero.	5 1
You Meetings 32 (19) 19 (19) Freport Coentination Modifieds and Minispenser 16 (19) 71 (19) 72 (19) 73 (19) 74 (SUB-TOTAL			1	7	-			1	-	1	1			1	1	-		1 6.554 06	8
### 17 14 17 17 17 17 17 17	12 Aftend Prejars Constitution Martin						1				1	1	1	H	z		1	1	5,018.77	11
8-00-Considents 8-00-Consident	SUB-TOTAL		32		85	181	E	CI Coendinas	on Meetings	and Manager	nent								6.377	9
8 obs. Consultants 8 obs. Consultants 1								1	1	18	H	16	1	1	-				280,388,63	5
TO THE PARTY OF TH	f.3 Gettle christal leves tigation - Langan Engineering			T	1			9	b-Centulian						$\ $	-		2	18,723,06	8
CEL MAIL MAIL MAIL MAIL MAIL MAIL MAIL MAI	IUB.TOTAL			1	1						-	H	F	-	1	1			19,223,08	8
THE PARTY OF THE P	OTAL FEE PER TITLE:		17.2	a		994	348	761				1	1	1	-	-	-		\$ 57,500,00	8
			4 42,263,27 4	14,479,70	10,312.54	45,116.74	73,850,00	23,378,00	-	100	2	188	100	н	N				\$ 67.800.00	1:

)					
TIMES	neipal	ect EON	90	pohoeni 1000	1000L 04 CIAB	Seruct:	leah 1000	allui 190		heanign	,,,	100cus	angle:			60		_	
CONTRACT RATES	\$ 382.60	267,93	733.64		-	MATE SA	orol3 _ nign3 #	mgn3 g	mign3 &	S CIVE E	Stantine	CVD W	ec cvo		Public Retation Coerdin	iknvessA	Admin.		Total Loaded Usber
1 Water Conflix Analysis		1			Design	and Permitte	Da Services	and Permitting Services for the Stem for	0 8			118,00 3	28.60 \$	189.60 1	182.28 8	118,71 \$	78.10		
Preimhinty Evaluation and Development of Well Concepts				14	16			69	51	26 10 10 10 10 10 10 10 10 10 10 10 10 10	(Melle)	1	1						
1				=	2			2	25	18	08	-	+	1	+	H	2	8 912	34,328.00
4 Rovise Drainage Report 5 Perform Engineering Calicidations		18		7	2 2			9			99	1	1	1			222		38,205.80
6 Utility Conflicts Evaluation and Councilosing		1	-	2	-			9	04	4	0)	-	1	-	+	+	5	138 1	23,319,33
7 Storm Oraninge Redesign		•		2	•						2 8	1	+	+			30	-	45,708,52
		2	-	7	91				•	1	2 5	-	-				•	- 3	8 228 92
Package to CMB for Review					2				•		z		16			-	* *	3	16.281.99
98 Structurel Design	+	-	*	~	x	1	1												12.059
9c Mechanical Design	1	2	•	~	25	252			2	90	90	18	25		-	-	1		
	H	7	-	-	200	1	1		×	94	QW .	8 0	~	1	-	-	1		44.542
Package to CMB for Review							001			10	96	4:	32	1	1	1	304	-	44,004,78
6 Shickural Design		2	-	7	84	1	-												41 624
10c Mechanical Design		2 0	1	2	=	180		1	9	90	00	12	24	-	1	-	1		1
Prepare and subsen 1994, wast. D.	1	2	7	-	8 3	1	1		8	99	90	2 2	74	1		-	24		32,056
Package to CMB for Review							00	1	-	16	8	121	24	1	1	1	132		34,563,18
B Sinchral Design		2	-	2	100											-	7		32,696.
11c Mechanical Design	1	2	1		92	921	1	1	90	97	0.0	-	14	-	-	-	1		
Demilian		2	1	1	\$ 2				-	107	8 0	-	1.5		-	1	168		20,205.34
DERM Chas V Penyll Properation and	1	1				1	VO			18.	9		2 4	1	+	H	6.		24 011
Submitted DESM Cleen II Down Market		ñ	•	2	22			1	1	-	-	1			1			-	25 561
Submitted		ū	•	~	-		1	1		1									10 000
12c Submittel		2	-	ľ	1	1	1	1	7.							-			
12d Condination with Permitting Agencies	+	-	1	1				-	34			-	-	1	1	1	1		11,334,71
SUB-TOTAL		16			-		1	91	2		-	+	+	1		1	5	-	11,334 71
							1	1	192	1			1	94	1	-	4 55	-	10,575.84
13 Attend Project Coordination Miretings BUB-TOTAL		40		28	×	Proje	sel Coordina	att Coordination Mertings and Merog	and Manager	Straint					1		-	_	700 487 00
						1	1	1	Z	+	24	-	-	1	1				
14 Geolechideal Investigation - Langan	-	1	1	-			90	Sub-Consultant	-					1	1	1	138		28,771.18
JEngmering JB-TDTAL									-	1	1	1	1	1				-	28,771
TOTAL HOURS PER TITLE:	10 May 10 M	208	208 281						1	1	1	-	1			_	L	-	147,256 00
INTER LEW HILE:				200	2004	The state of the s	440												



West Avenue North - 091

Drainage			

Item	Qty	Unit	Subcontractor	Material		Labor		Equipment		NewTotal	Original Total	Delta	Notes
	-Ziy	Unit	mrsvntractor	OF STREET	MH		Total	мириси		. sc w 1 00H	gmal 1908	ACTUR.	Notes
Pump Station Engineering	!	10	e 150 500 c.	,						E 150.000		e 150.000	
CES Engineering Sidewalk/Tree Removal/Landscaping/Fencing	l gan	LS	\$ 152,500.00 \$ -	s -			s -	S -		\$ 152,500.00 \$ -		\$ 152,500.00 \$ -	
Fence 7' high Double Gate	420 1	LF EA	\$ 8,400.00 \$ 10,000.00	s -			s -	s -		\$ 8,400.00 \$ 10,000.00		\$ 8,400.00 \$ 10,000.00	
Landscaping 17th St. & Parking Area Irrigation	1	LS LS	\$ 35,000.00 \$ 5,000.00	\$ - \$ -			\$ - \$ -	S -		\$ 35,000.00 \$ 5,000.00		\$ 35,000.00 \$ 5,000.00	
Sidewalk - 6' wide Tree Removal Utility Relocation	3000 1	SF LS	\$ 30,000.00 \$ 5,000.00	\$ -			\$ - \$ -	S -		\$ 30,000.00 \$ 5,000.00		\$ 30,000.00 \$ 5,000.00	
Utility Relocation Utility Removal	1	LS	s -	\$ 1,200.00	300	\$ 48.68	\$ 14,604.00	\$ 13,886.00		\$ 29,690.00		\$ 29,690.00	
Utility Removal Paving Parking Lot	1	LS	\$ -	\$ 960.00	240	\$ 48.68	S 11,683.00	\$ 11,109.00		\$ 23,752.00		\$ 23,752.00	
Paving Parking Lot Existing Aspahlt Removal & Stone Base Installation	1611 1000	SY SY	S 24,926.00	\$ - \$ 5,675.00	180	\$ 48.68	\$ - \$ 8.762.00	S - S 8,331.00		\$ 24,926.00 \$ 22,768.00		\$ 24,926.00 \$ 22,768.00	
MOT 17th St. & West Ave.	1000	LS	s 7,500,00	S 10,300.00	880	\$ 38.79	s 34,139.00			\$ 65,139,00		s 65,139,00	
Platform Screening & Support Platform Screening & Support	3400	SF	\$ 7,500.00	S 277,478.00		\$ 48.68		S 17,051.00		\$ 352,945.00		s 352,945.00	
Curb & Gutter FPL Vault	420	LF	\$ 14,700.00	\$ -	1200	3 40.00	\$ -	\$ -		\$ 14,700.00		S 14,700.00	
FPL Vault Transition Box	1	LS	s -	S 171,600.00			s -	s -		\$ 171,600.00		S 171,600.00	
Cofferdam 60' x 30' Escavate/Backfill extra at deep section	5400 800	SF CY	\$ 170,000.00 \$	\$ 13,375.00 \$ 3,852.00	1760 300	S 48.28 S 48.68	\$ 84,968.00 \$ 14,604.00	\$ 112,915.00 \$ 13,886.00		\$ 381,258.00 \$ 32,342.00		\$ 381,258.00 \$ 32,342.00	
Backfill Perimeter Dewatering	320 1	TON	\$ -	\$ 13,136.00 \$ 16,374.00		\$ 48.68 \$ 50.66	\$ 8,762.00 \$ 10,131.00	\$ 8,331.00 \$ 4,617.00		\$ 30,229.00 \$ 31,122.00		\$ 30,229.00 \$ 31,122.00	
Dissipator Receiver Box Dissipator Receiver Box	4200	SF	\$ 100,000.00	s 13,375.00		\$ 48.28		S 35,857.00		\$ 180,129.00		S 180,129.00	
Tremie Seal Backfill - Stone Base	200 800	CY	\$ - \$ -	\$ 2,782.00 \$ 2,889.00		S 48.68 S 48.68	\$ 7,010.00 \$ 14,604.00	\$ 7,200.00		\$ 16,992.00 \$ 31,379.00		S 16,992.00 S 31,379.00	
Backfill Perimeter Dewntering	400	TON LS	\$ - \$ -	\$ 11,670.00 \$ 16,374.00	180	\$ 48.68 \$ 50.66	\$ 8,762.00 \$ 6,414.00	\$ 8,331.00		\$ 28,763.00 \$ 25,710.00		\$ 28,763.00 \$ 25,710.00	
17th Sea Wall & Lincoln Rd.		18	\$.	\$ (19,000,00		#DIV/01	\$.	s .		\$ (19,000,00		\$ (19,000,00	Tie-Back System
Sea Wall Removal (17th St.) Pile Cap Replacement	80 12	LF CY	\$ 3,500.00 \$ 15,600.00	\$ 11,000.00 \$ 43,228.00	240 640	\$ 48.68 \$ 48.08	\$ 11,683.00 \$ 30,769.00	\$ 8,331.00 \$ 21,761.00		\$ 34,514.00 \$ 111,358.00		\$ 34,514.00 \$ 111,358.00	
Tremie Seal Dewatering	20	CY LS	\$ - \$ -	\$ 2,782.00 \$ 6,634.00	144 50	\$ 48.68 \$ 50.66	\$ 7,010.00 \$ 2,533.00	\$ 6,665.00 \$ 1,154.00		\$ 16,457.00 \$ 10,321.00		\$ 16,457.00 \$ 10,321.00	
84" PCCP 84" PCCP Installation	450	LF	s -	s 747,663.00	1500	\$ 52.86	s 79,286.00	\$ 89,892.00		\$ 916,841.00		S 916,841.00	
Joint Testing & Grouting Clean & Inspect	25 450	EA LF	s - s -	\$ 13,108.00 \$ -	75 150	\$ 38.80 \$ 47.39	\$ 2,910.00 \$ 7,108.00	\$ 818.00		\$ 16,836.00 \$ 7,633.00		\$ 16,836.00 \$ 7,633.00	
Flap Valves	F					-		2500		,000,000		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Credits 8" AV Butterfly Valves	4	EA	s -	\$ (10,000.00)			s -	\$ -		\$ (10,000.00		\$ (10,000.00	60" Flap Valves
Hatches			s -	\$ -	0	#DIV/0!	s -	s -		s -		s -	
Platform			s -	s -	0	#DIV/0!	s -	s -	L	S -		s -	
Platform Restoration West Ave. from Lincoln Rd. to 17th	48	SF	s -	s -	80	\$ 49.54	\$ 3,963.00	S 1,791.00	L	\$ 5,754.00		\$ 5,754.00	
Milling Existing Asphalt Road Grading	3310 3310	SY SY	\$ 9,930.00 \$ -	S - S 6,698.00	132	\$ 51.06	\$ - \$ 6,740.00	S - S 5,563.00		\$ 9,930.00 \$ 19,001.00		\$ 9,930.00 \$ 19,001.00	
Paving Striping and Signage	3310 1	SY	\$ 49,650.00 \$ 12,500.00	s -	L		s - s -	S -	L	\$ 49,650.00 \$ 12,500.00		\$ 49,650.00 \$ 12,500.00	
Header Pipe System													
Credits	1	LS	\$ -	\$ (62,534.00)			\$ -	s -		\$ (62,534.00		\$ (62,534.00	Header Pipe System
Lincoln Ct. Conect 12" Drain to existing RCP	7	EA	\$ 2,800.00	\$ 594.00	175	\$ 53.93	\$ 9,437.00	\$ 3,606.00		\$ 16,437.00		\$ 16,437.00	
Miscellaneous Items	1	LS	s -	\$ 19,154.00	168.8	\$ 49.48	S 8,353.00	\$ 7,017.00		\$ 34,524.00		S 34,524.00	
Lincoln Terrace Conect 12" Drain to existing RCP	8	EA	\$ 3,200.00	\$ 678.00	200	\$ 53.93	\$ 10,786.00	\$ 4,121.00		\$ 18,785.00		\$ 18,785.00	
Miscellaneous Items	1	LS	\$ -	\$ 19,154.00	168.8	\$ 49.48	\$ 8,353.00	\$ 7,017.00		\$ 34,524.00		S 34,524.00	
16th St. West of Bay Rd. Conect 12" Drain to existing RCP	9	EA	\$ 3,600.00	\$ 763.00	225	\$ 53.93	\$ 12,134.00	\$ 4,636.00		\$ 21,133.00		\$ -	
Miscellaneous Items 16th Street	1	LS	\$ -	\$ 19,154.00	168.8	\$ 49.48	\$ 8,353.00	\$ 7,017.00		\$ 34,524.00		\$ 34,524.00 \$ -	
Conect 12" Drain to existing RCP 24" RCP	4 150	EA LF	\$ 1,600.00 \$ -	\$ 339.00 \$ 24,923.00	109.9	\$ 53.93 \$ 49.13	\$ 5,393.00 \$ 5,399.00	\$ 4,536.00		\$ 9,393.00 \$ 34,858.00		\$ 9,393.00 \$ 34,858.00	
Haul out of Muck Dewatering	41 150	CY LF	\$ -	\$ 2,250.00 \$ 2,022.00	15	\$ 53.58 \$ 50.67	\$ 1,318.00 \$ 760.00	\$ 1,645.00 \$ 346.00		\$ 5,213.00 \$ 3,128.00		\$ 5,213.00 \$ 3,128.00	
36" RCP Haul out of Muck	360 162	LF CY	\$ 9,000.00	\$ 73,400.00 \$	98.3	\$ 49.49 \$ 53.57	\$ 12,955.00 \$ 5,266.00			\$ 97,237.00 \$ 20,840.00		\$ 97,237.00 \$ 20,840.00	
Dewatering Precast Type I (MH-16WA,MH-16BR)	360 2	LF EA	\$ -	\$ 4,869.00 \$ 11,021.00	72 180		\$ 3,647.00 \$ 8,898.00	\$ 8,479.00		\$ 10,178.00 \$ 28,398.00		\$ 10,178.00 \$ 28,398.00	
Mud Work Miscellaneous Items	1	EA LS	s -	\$ 139.00 \$ 19,154.00		\$ 33.77 \$ 49.48	\$ 5,066.00 \$ 8,353.00			\$ 6,158.00 \$ 34,524.00		\$ 6,158.00 \$ 34,524.00	
15th Terrace												\$ -	
24" RCP Haul out of Muck	250 156	LF CY	\$ 6,500.00	\$ 14,501.00	181.81 64.2	\$ 53.57	\$ 8,997.00 \$ 3,439.00			\$ 31,057.00 \$ 14,232.00		\$ 31,057.00 \$ 14,232.00	
Dewatering Precast Type J (MH-15WA,MH-15BR)	250 2	LF EA	\$ -	\$ 3,371.00 \$ 11,021.00	50 180	\$ 49.43	\$ 2,533.00 \$ 8,898.00	\$ 1,154.00 \$ 8,479.00		\$ 7,058.00 \$ 28,398.00		\$ 7,058.00 \$ 28,398.00	
Catch Basin Type F (ST-14SA) Precast Type J (MH-145B)	1 1	EA EA	\$ - \$ -	\$ 2,690.00 \$ 2,786.00	40 80	\$ 49.48 \$ 49.49	\$ 1,979.00 \$ 3,959.00	\$ 1,663.00 \$ 3,326.00		\$ 6,332.00 \$ 10,071.00		\$ 6,332.00 \$ 10,071.00	
Mud Work Removal of Existing 16" RCP	100	EA LF		\$ 1,113.00 \$ 450.00		\$ 50.66 \$ 49.49	\$ 10,131.00 \$ 7,918.00			\$ 13,149.00 \$ 14,375.00		\$ 13,149.00 \$ 14,375.00	
Miscellaneous Items	1	LS	· ·	\$ 19,154.00	168.8	\$ 49.51	\$ 8,357.00	S 7,021.00		\$ 34,532.00		\$ 34,532.00	
15th Street Existing Inlet Riser Installation Miscellaneous Items	1	EA LS		\$ 1,070.00 \$ 19,154.00	23.33 168.8	\$ 49.59 \$ 49.48	\$ 1,157.00 \$ 8,353.00	\$ 917.00 \$ 7,017.00		\$ 3,144.00 \$ 34,524.00		\$ 3,144.00 \$ 34,524.00	
Miscellaneous Items 14th Court	Ė	Lo		. 17,134.00	100.5	J 47.48	. 0,353.00	. ,,,17.00		J=,324.00		\$ -	
30" RCP Haul out of Muck	80 36	LF CY	\$ -	\$ 16,311.00	58.17 21.84	\$ 49.49 \$ 53.57	\$ 2,879.00 \$ 1,170.00	\$ 2,418.00 \$ 1,461.00		\$ 21,608.00 \$ 4,654.00		\$ 21,608.00 \$ 4,654.00	
Dewatering Catch Basin Type F (ST-121A)	36 80 1	LF EA	\$ -	\$ 1,086.00 \$ 2,690.00	8	\$ 50.63 \$ 49.48	\$ 1,170.00 \$ 405.00 \$ 1,979.00	\$ 185.00		\$ 1,676.00 \$ 6,332.00		\$ 1,676.00 \$ 6,332.00	
Catch Basin Type F (ST-121A) Mud Wiscellaneous Items	1	EA LS	s .	\$ 2,690.00 \$ 278.00 \$ 19,154.00	25 168.8		\$ 1,979.00 \$ 1,266.00 \$ 8,353.00	\$ 238.00 \$ 7,017.00		\$ 1,782.00 \$ 34,524.00		\$ 1,782.00 \$ 34,524.00	
Lincoln Road	Ė		-	,			- December			0		\$.	
24" RCP Haul out of Muck	265 80	LF	\$ - \$ 4,705.00	\$ 43,951.00	192.71 48	\$ 53.56		\$ 8,012.00 \$ 3,210.00		\$ 61,500.00 \$ 10,486.00		\$ 61,500.00 \$ 10,486.00	
Dewatering 24" RCP (Credit)	265 183	LF	\$ -	\$ 3,521.00 \$ (28,086.00)	53 133.07		\$ 2,685.00 \$ (6,586.00)	\$ 1,223.00		\$ 7,429.00 \$ (40,204.00)		\$ 7,429.00 \$ (40,204.00)	
Haul out of Muck (Credit) Dewatering (Credit)	55 183	CY LF	\$ (3,236.00)	\$ (2,435.00)	33 36.6	\$ (53.61)	\$ (1,769.00) \$ (1,855.00)	\$ (2,207.00)		\$ (7,212.00) \$ (5,135.00)		\$ (7,212.00) \$ (5,135.00)	
84" RCP (Credit) Haul out of Muck (Credit)	366 283	LF CY	\$ - \$ (5,102.00)	\$ (170,849.00)	1029.39 167.02	\$ (50.14)	\$ (51,612.00) \$ (8,948.00)	\$ (54,948.00)		\$ (277,409.00) \$ (25,220.00)		\$ (277,409.00) \$ (25,220.00)	
Dewatering (Credit) 96" RCP (Credit)	366 229	LF LF	\$.	\$ (35,983.00) \$ (128,981.00)	36.6 858.76	\$ (50.68) \$ (50.14)	\$ (1,855.00) \$ (43,057.00)	\$ (846.00) \$ (51,946.00)	L	\$ (38,684.00) \$ (223,984.00)		\$ (38,684.00) \$ (223,984.00)	
Haul out of Muck (Credit) Dewatering (Credit)	183 229	CY LF	\$ (3,249.00)	\$ (15,936.00)	109.8 22.9	\$ (53.58) \$ (50.70)	\$ (5,883.00) \$ (1,161.00)	\$ (7,344.00) \$ (530.00)		\$ (16,476.00) \$ (17,627.00)		\$ (16,476.00) \$ (17,627.00)	
Precast Type V(ST-134,ST-134A,ST-134B,ST-135) Precast Type J (MH-LRWA,MH-LRBR)	4 2	EA EA	s - s -	\$ 11,145.00 \$ 11,022.00	180	\$ 49.49 \$ 49.43	\$ 8,898.00	\$ 13,303.00 \$ 8,479.00	E	\$ 40,284.00 \$ 28,399.00		\$ 40,284.00 \$ 28,399.00	
Mud Work Precast Type J (Credit)	6 2	EA EA	\$ -	\$ 1,669.00 \$ (11,021.00)	300 160	\$ 50.66	\$ 15,197.00	\$ 2,858.00		\$ 19,724.00		\$ 19,724.00 \$ (25,592.00)	
Miscellaneous Items	1	LS	s -	S 19,154.00		\$ 49.48	S 8,353.00	\$ 7,017.00	L	\$ 34,524.00		\$ 34,524.00 \$ -	
West Avenue (Lincoln Rd. to 14th St.) 18" RCP	40	LF	\$ -	\$ 6,521.00	29.09	\$ 49.50	\$ 1,440.00	\$ 1,211.00		\$ 9,172.00		\$ -	
Haul out of Muck Dewatering	11 40	CY LF	\$ 648.00	\$ 524.00	6.6 16.23	\$ 53.64 \$ 50.77	\$ 354.00 \$ 824.00	\$ 441.00 \$ 375.00		\$ 1,443.00 \$ 1,723.00		\$ 1,443.00 \$ 1,723.00	
Z4" RCP Haul out of Muck	123 39	LF CY	\$ - \$ 2,293.00	\$ 20,400.00	89.44 23.4	\$ 49.49 \$ 53.59	\$ 4,426.00 \$ 1,254.00	\$ 3,718.00 \$ 1,565.00		\$ 28,544.00 \$ 5,112.00		\$ 28,544.00 \$ 5,112.00	
Dewatering 48" RCP	123 274	LF LF	\$ -	\$ 1,648.00 \$ 68,962.00	50 199.28	\$ 50.66 \$ 49.49	\$ 2,533.00 \$ 9,862.00			\$ 5,335.00 \$ 87,109.00		\$ 5,335.00 \$ 87,109.00	
Haul out of Muck Dewatering	165 274	CY	\$ 3,055.00	\$ 3,708.00		\$ 53.57	\$ 5,303.00 \$ 2,776.00	\$ 6,621.00 \$ 1,265.00		\$ 14,979.00 \$ 7,749.00		\$ 14,979.00 \$ 7,749.00	
96" RCP Haul out of Muck	339 272	LF CY	\$ - \$ 4,858.00	\$ 256,355.00	1271.25 163.2	\$ 50.14 \$ 53.57	\$ 63,738.00 \$ 8,742.00	\$ 76,895.00 \$ 10,914.00		\$ 396,988.00		\$ 396,988.00 \$ 24,514.00	
Dewatering Precast Type J (MH-LRWA,MH-LRBR)	339	LF EA	s -	\$ 33,373.00 \$ 43,056.00	33.9 360	\$ 50.65 \$ 49.43	\$ 1,717.00 \$ 17,796.00	\$ 783.00 \$ 19,863.00		\$ 35,873.00 \$ 80,715.00		\$ 35,873.00 \$ 80,715.00	
Precast Type 6, 8' Dta. (ST-1456WA, MH-WA1387, MH-WA1323.) Catch Basin Type 10 Round (ST-1382WA)	3	EA EA	\$ - \$ -	\$ 16,618.00 \$ 2,407.00	300 40	\$ 50.03	\$ 15,008.00 \$ 1,979.00			\$ 44,345.00 \$ 6,049.00		\$ 44,345.00 \$ 6,049.00	
Curb Inlet Type 6, 6'x 6' (ST-1490WA) Existing Inlet Riser Installation	1 3	EA EA	\$ -	\$ 6,745.00 \$ 3,210.00		\$ 50.03	\$ 5,003.00 \$ 3,472.00	\$ 4,240.00		\$ 15,988.00 \$ 9,436.00		\$ 15,988.00 \$ 9,436.00	
Miscellaneous Items	1	LS	s -	S 19,154.00	168.8	\$ 49.48	\$ 8,353.00	\$ 7,017.00		\$ 34,524.00		\$ 34,524.00	
	1		\$ 686,901.00	\$ 1,792,914.00	20486.99		\$ 749,014.00	\$ 611,479.00		\$ 3,840,308.00 Subc	ontractor Markup	\$ 3,840,308.00 \$ 34,345.05	
												\$ 315,340.70	
												\$ 4,305,202.99	



				rectivity	Unit Frice	Summary					
Biditem Activity	Description	Quantity	Unit	Calend WC	dar Hrs/Shif	t Labor	Perm Material	Constr Matl/Exp	Equip- Ment	Sub- Contract	Total
*** 11		CES Engineer	ring			Takeoff:	1.00	LS	Bid:	1.	00 LS
11.01	CES Engineering) LS	F6319A	50 10.00)		152,500			152,500
Mh:	Shifts:	Mh/Un:		Un/Sh:				152,500.00		15	52,500.00
***** Mh:	****Biditem/Category Mh/Un:	11 ****	****					152,500 152,500.00		15	152,500 52,500.00
*** 12		Sidewalk/tree	romoval/	Landscani	ng/Foncine	Takeoff:	1.00	15	Bid:	1	00 LS
12.01	Fence 7' high	420.00		F6319A		•	1.00	LS	Diu.	8,400	8,400
Mh:	Shifts:	Mh/Un:	LI	Un/Sh:	50 10.0	,				20.00	20.00
12.02	Double Gate	1.00) EA	F6319A	50 10.00)				10,000	10,000
Mh:	Shifts:	Mh/Un:		Un/Sh:						10,000.00	10,000.00
12.03	Landscaping 17th St.) LS	F6319A	50 10.00)				35,000	35,000
Mh:	Shifts:	Mh/Un:		Un/Sh:						35,000.00 3	· ·
12.04	Irrigation) LS	F6319A	50 10.00)				5,000	5,000
Mh:	Shifts:	Mh/Un:	CE	Un/Sh:	50 10 0	1				5,000.00	· ·
12.05 Mh:	Sidewalk - 6' wide Shifts:	3,000.00 Mh/Un:) SF	F6319A Un/Sh:	50 10.00	J				30,000 10.00	30,000
12.06	Tree Removal) LS	F6319A	50 10.00	1				5,000	5,000
Mh:	Shifts:	Mh/Un:	LS	Un/Sh:	30 10.00	9				5,000.00	
14111.	Simts.	will on.		Oli bii.						3,000.00	3,000.00
***** Mh:	****Biditem/Category Mh/Un:	12 *****	****							93,400 93,400.00 9	93,400 93,400.00
*** 13		Utility Reloca	topn			Takeoff:	1.00	LS	Bid:	1.	00 LS
13.01	Utility Relocatopn	•) LS	F6319A	50 10.00			1,200	13,886		29,690
Mh:	•	5.0 Mh/Un:	300.000	0 Un/Sh:	0.200			1,200.00	13,885.80	2	29,689.73
***** Mh:	****Biditem/Category 300.00 Mh/Un:	13 ***** 300.0000	****			14,604 14,603.93		1,200 1,200.00	13,886 13,885.80	2	29,690 29,689.73
*** 14		Utility Remov	als			Takeoff:	1.00	LS	Bid:	1.	00 LS
14.01	Utility Removals	830.00		F6319A	50 10.00	11,683		960	11,109		23,752
Mh:		4.0 Mh/Un:	0.289	2 Un/Sh:	207.500	14.08		1.16	13.38		28.62
*****	****Biditem/Category	14 *****	****			11,683		960	11,109		23,752
Mh:	240.00 Mh/Un:	240.0000				11,683.14		960.00	11,108.64	2	23,751.78
*** 15		Paving Parkin	U	E(210)	5 0 1 0 0	Takeoff:	1.00	LS	Bid:		00 LS
15.01	Paving Parking Lot	1,611.00	SY	F6319A	50 10.00)				24,926	24,926
Mh: 15.02	Shifts: Aphalt Removal & St	Mh/Un:	CV	Un/Sh: F6319A	50 10.00	8,762	2,675	3,000	8,331	15.47	22,769
Mh:	•	3.0 Mh/Un:		0 Un/Sh:			2.68	3.00	8.33		22,709
14111.	100.00 Billis.	3.0 NH OH.	0.100	o chron.	555.555	0.70	2.00	3.00	0.55		22.77
*****	****Biditem/Category	15 *****	****			8,762	2,675	3,000	8,331	24,926	47,695
Mh:	180.00 Mh/Un:	180.0000					2,675.00	3,000.00	-	24,926.30 4	
						ŕ	,	ŕ	,	,	ŕ
*** 16		MOT 17th St.	& West	Ave.		Takeoff:	1.00	LS	Bid:	1.	00 LS
16.01	MOT 17th St. & Wes) LS	F6319A	50 10.00	34,139		10,300	13,200	7,500	65,139
Mh:	880.00 Shifts:	Mh/Un:	880.000	0 Un/Sh:		34,139.46		10,300.00	13,200.00	7,500.00 6	55,139.46
	****Biditem/Category	16 *****	****			34,139		10,300	13,200		65,139
Mh:	880.00 Mh/Un:	880.0000				34,139.46		10,300.00	13,200.00	7,500.00 6	55,139.46
*** 17		DI 16 °	• •	7 :		TP 1 CC	4.00	T.C.	D:1	-	00.1.0
*** 17	Diotform Communication	Platform Scre	-		50 10.0	Takeoff:	1.00	LS	Bid:	1.	00 LS
17.01 Mh:	Platform Screening & 1,200.00 Shifts: 2	* *		F6319A 9 Un/Sh:			277,478 81.61		17,051 5.02		352,945 103.81
Mn: 17.02	1,200.00 Sniπs: 2 Curb & Gutter	20.0 Mn/Un: 420.00		F6319A			01.01		5.02	14,700	103.81
Mh:	Shifts:	Mh/Un:	, LI,	Un/Sh:	50 10.00	<i>y</i>				35.00	35.00
17111.	Silits.	IVIII/ OII.		OII/SII.						33.00	55.00
*****	****Biditem/Category	17 *****	****			58.416	277,478		17,051	14.700	367,645
	1,200.00 Mh/Un:	1,200.0000				,	277,477.75			14,700.00	
*** 18		EDI X7				TP 1 CC	1.00	I.C.	D:1		00.1.6
*** 18		FPL Vault				Takeoff:	1.00	LS	Bid:	1.	00 LS



Biditem					Calen	dar		Perm	Constr	Equip-	Sub-	
Activity	Description		Quantit	y Unit	WC	Hrs/Shift	Labor	Material	Matl/Exp		Contract	Total
18.01	FPL Vault			.00 LS	F6319A						,	171,600
Mh:	Sl	hifts:	Mh/Un:		Un/Sh:						171,600.00	171,600.00
	****Biditem/Ca		18 ***	******							171,600	-
Mh:	N	Mh/Un:									171,600.00	171,600.0
*** 19			Transition				Takeoff:	1.00	LS	Bid:		.00 LS
19.01	Cofferdam 6			0.00 SF	F6319A		84,968	13,375		112,915	170,000	
	*	hifts: 22.			9 Un/Sh:		15.73	2.48		20.91	31.48	70.6
19.02 Mh:	Escavate/Ba 300.00 Sl		i at deep 800 5.0 Mh/Un:	0.00 CY	F6319A 0 Un/Sh:		14,604 18.25	3,852 4.82		13,886 17.36		32,34 40.4
19.03	Backfill Peri			0.5750 0.00 TON	F6319A		8,762	5,136	8,000	8,331		30,23
Mh:			.0 Mh/Un:		5 Un/Sh:		27.38	16.05	25.00	26.04		94.4
19.04	Dewatering			.00 LS	F6319A		10,131	16,374	23.00	4,617		31,12
Mh:			.0 Mh/Un:				10,131.36	,		4,616.68		31,122.4
*****	****Biditem/Ca	.t	19 ***	*****			118,466	38,737	8,000	139,749	170,000	474.05
		Mh/Un:	2,440.0000				118,465.60	-	8,000.00	,	170,000	
*** 20			Dissipator	Receiver Box	x		Takeoff:	1.00	LS	Bid:	1.	.00 LS
20.01	Dissipator R		,	0.00 SF	F6319A		,	13,375		35,857	100,000	
Mh:	640.00 Sl	hifts: 8.	.0 Mh/Un:		4 Un/Sh:	525.0000	7.36	3.18		8.54	23.81	42.8
20.02	Tremie Seal		20	0.00 CY	F6319A	50 10.00	7,010	2,782		7,200		16,99
Mh:	144.00 SI	hifts: 2.	.4 Mh/Un:	7.2000	0 Un/Sh:	8.3333	350.50	139.10		360.01		849.6
20.03	Backfill - St	one Base	800	0.00 CY	F6319A		14,604	2,889		13,886		31,37
Mh:	300.00 SI	hifts: 5.	.0 Mh/Un:	0.3750) Un/Sh:	160.0000	18.25	3.61		17.36		39.2
20.04	Backfill Peri	imeter	400	0.00 TON	F6319A	50 10.00	8,762	6,420	5,250	8,331		28,76
Mh:	180.00 SI	hifts: 3.	.0 Mh/Un:	0.4500	0 Un/Sh:	133.3333	21.91	16.05	13.13	20.83		71.9
20.05	Dewatering		1	.00 LS	F6319A	50 10.00	6,414	16,374		2,922		25,71 25,710.2
	**** Biditem/Ca	ntegory Mh/Un:	20 *** 1,390.6100	*****			67,687 67,687.16	41,840	5,250 5,250.00	68,197	100,000 100,000.00	,
	1,570.01	viii/Oii.										
*** 21				all & Lincol			Takeoff:	1.00		Bid:	1.	.00 LS
21.01	Credits			.00 LS	F6319A				-19,000			-19,00
Mh:		hifts:	Mh/Un:		Un/Sh:			40.500	19,000.00			19,000.0
21.02	Sea Wall Re	moval (17t	th St.) 80	0.00 LF	F6319A		11,683	10,700	300	8,331	3,500	34,51
Mh:		1:0	,		3 TT (01		1.46.04	122 55	2 = -	10111	10.55	
			.0 Mh/Un:		0 Un/Sh:		146.04	133.75	3.75	104.14	43.75	431.4
	Pile Cap Rep	placement	.0 Mh/Un:	2.00 CY	F6319A	50 10.00	30,769	43,228	3.75	21,761	15,600	431.4 111,35
Mh:	Pile Cap Rep 640.00 Sl	placement hifts: 5.	.0 Mh/Un: 12 .0 Mh/Un:	2.00 CY 53.3333	F6319A 3 Un/Sh:	50 10.00 2.4000	30,769 2,564.12	43,228 3,602.33	3.75	21,761 1,813.40		431.4 111,35 9,279.8
Mh: 21.04	Pile Cap Rep 640.00 Sl Tremie Seal	placement hifts: 5.	.0 Mh/Un: 12 3.0 Mh/Un: 20	2.00 CY 53.3333 0.00 CY	F6319A 3 Un/Sh: F6319A	50 10.00 2.4000 50 10.00	30,769 2,564.12 7,010	43,228 3,602.33 2,782	3.75	21,761 1,813.40 6,665	15,600	431.4 111,35 9,279.8 16,45
Mh: 21.04 Mh:	Pile Cap Rep 640.00 SI Tremie Seal 144.00 SI	placement hifts: 5. hifts: 2.	.0 Mh/Un: 12 .0 Mh/Un: 20 4 Mh/Un:	2.00 CY 53.3333 0.00 CY 7.2000	F6319A 3 Un/Sh: F6319A 0 Un/Sh:	50 10.00 2.4000 50 10.00 8.3333	30,769 2,564.12 7,010 350.50	43,228 3,602.33 2,782 139.10	3.75	21,761 1,813.40 6,665 333.26	15,600 1,300.00	431.4 111,35 9,279.8 16,45 822.8
Mh: 21.04 Mh:	Pile Cap Rep 640.00 SI Tremie Seal 144.00 SI Dewatering	placement hifts: 5. hifts: 2.	.0 Mh/Un: 12 .0 Mh/Un: 20 4 Mh/Un:	53.3333 0.00 CY 7.2000 .00 LS	F6319A 3 Un/Sh: F6319A 0 Un/Sh:	50 10.00 2.4000 50 10.00 8.3333 50 10.00	30,769 2,564.12 7,010 350.50 2,533	43,228 3,602.33 2,782 139.10 6,634	3.75	21,761 1,813.40 6,665	15,600 1,300.00	431.4 111,35 9,279.8 16,45 822.8 10,32
Mh: 21.04 Mh: 21.05 Mh:	Pile Cap Rep 640.00 SI Tremie Seal 144.00 SI Dewatering 50.00 SI	placement hifts: 5. hifts: 2. hifts: 1.	.0 Mh/Un: 12 .0 Mh/Un: 20 .4 Mh/Un: 1 .0 Mh/Un:	7.2000 50.00 CY 7.2000 0.00 LS 50.0000	F6319A 3 Un/Sh: F6319A 0 Un/Sh: F6319A	50 10.00 2.4000 50 10.00 8.3333 50 10.00	30,769 2,564.12 7,010 350.50 2,533 2,532.82	43,228 3,602.33 2,782 139.10 6,634 6,634.00	=	21,761 1,813.40 6,665 333.26 1,154 1,154.17	15,600 1,300.00	431.4. 111,35 9,279.8 16,45 822.8 10,32 10,320.9
Mh: 21.04 Mh: 21.05 Mh:	Pile Cap Rep 640.00 SI Tremie Seal 144.00 SI Dewatering 50.00 SI ****Biditem/Ca	placement hifts: 5. hifts: 2. hifts: 1.	.0 Mh/Un: 12 .0 Mh/Un: 20 .4 Mh/Un: 1 .0 Mh/Un:	53.3333 0.00 CY 7.2000 .00 LS	F6319A 3 Un/Sh: F6319A 0 Un/Sh: F6319A	50 10.00 2.4000 50 10.00 8.3333 50 10.00	30,769 2,564.12 7,010 350.50 2,533 2,532.82 51,995	43,228 3,602.33 2,782 139.10 6,634	-18,700 -18,700.00	21,761 1,813.40 6,665 333.26 1,154 1,154.17 37,912	15,600 1,300.00	431.4 111,35 9,279.8 16,45 822.8 10,32 10,320.9
Mh: 21.04 Mh: 21.05 Mh: ****** Mh:	Pile Cap Rep 640.00 SI Tremie Seal 144.00 SI Dewatering 50.00 SI	placement hifts: 5. hifts: 2. hifts: 1.	.0 Mh/Un: 12 .0 Mh/Un: 20 .4 Mh/Un: 1 .0 Mh/Un: 21 ***	7.2000 50.00 CY 7.2000 0.00 LS 50.0000	F6319A 3 Un/Sh: F6319A 0 Un/Sh: F6319A	50 10.00 2.4000 50 10.00 8.3333 50 10.00 1.0000	30,769 2,564.12 7,010 350.50 2,533 2,532.82 51,995	43,228 3,602.33 2,782 139.10 6,634 6,634.00	-18,700 -18,700.00	21,761 1,813.40 6,665 333.26 1,154 1,154.17 37,912	15,600 1,300.00 19,100 19,100.00	431.4 111,35 9,279.8 16,45 822.8 10,32 10,320.9
Mh: 21.04 Mh: 21.05 Mh: ****** Mh:	Pile Cap Rep 640.00 SI Tremie Seal 144.00 SI Dewatering 50.00 SI	placement hifts: 5. hifts: 2. hifts: 1.	.0 Mh/Un: 12 .0 Mh/Un: 20 .4 Mh/Un: 1.0 Mh/Un: 21 *** 1,074.0000 84" PCCP	7.2000 50.00 CY 7.2000 0.00 LS 50.0000	F6319A 3 Un/Sh: F6319A 0 Un/Sh: F6319A 0 Un/Sh:	50 10.00 2.4000 50 10.00 8.3333 50 10.00 1.0000	30,769 2,564.12 7,010 350.50 2,533 2,532.82 51,995 51,995.25	43,228 3,602.33 2,782 139.10 6,634 6,634.00 63,344 63,344.00	-18,700 -18,700.00	21,761 1,813.40 6,665 333.26 1,154 1,154.17 37,912 37,911.63	15,600 1,300.00 19,100 19,100.00	431.4 111,35 9,279.8 16,45 822.8 10,32 10,320.9 153,65 100 LS
Mh: 21.04 Mh: 21.05 Mh: ******* Mh:	Pile Cap Rep 640.00 SI Tremie Seal 144.00 SI Dewatering 50.00 SI ****Biditem/Ca 1,074.00 M	placement hifts: 5. hifts: 2. hifts: 1.	.0 Mh/Un: 12 .0 Mh/Un: 20 .4 Mh/Un: 1.0 Mh/Un: 21 *** 1,074.0000 84" PCCP 450	0.00 CY 53.333; 0.00 CY 7.2000 .00 LS 50.0000	F6319A 3 Un/Sh: F6319A 0 Un/Sh: F6319A 0 Un/Sh:	50 10.00 2.4000 50 10.00 8.3333 50 10.00 1.0000	30,769 2,564.12 7,010 350.50 2,533 2,532.82 51,995 51,995.25 Takeoff: 79,286	43,228 3,602.33 2,782 139.10 6,634 6,634.00 63,344 63,344.00 1.00 747,663	-18,700 -18,700.00	21,761 1,813.40 6,665 333.26 1,154 1,154.17 37,912 37,911.63 Bid:	15,600 1,300.00 19,100 19,100.00	431.4 111,35 9,279.8 16,45 822.8 10,320.9 153,65 153,650.8
Mh: 21.04 Mh: 21.05 Mh: ****** Mh: **** Mh: Mh: **** Mh:	Pile Cap Rep 640.00 SI Tremie Seal 144.00 SI Dewatering 50.00 SI ****Biditem/Ca 1,074.00 M	placement hifts: 5. hifts: 2. hifts: 1. htegory Mh/Un:	.0 Mh/Un: 12 .0 Mh/Un: 20 .4 Mh/Un: 1 .0 Mh/Un: 1 .0 Mh/Un: 21 *** 1,074.0000 84" PCCP 450 .8 Mh/Un: ng 25	2.00 CY 53.333; 0.00 CY 7.2000 .00 LS 50.0000 ********	F6319A 3 Un/Sh: F6319A 0 Un/Sh: F6319A 0 Un/Sh: F6319A 3 Un/Sh: F6319A	50 10.00 2.4000 50 10.00 8.3333 50 10.00 1.0000 50 10.00 24.0000 50 10.00	30,769 2,564.12 7,010 350.50 2,533 2,532.82 51,995 51,995.25 Takeoff: 79,286 176.19	43,228 3,602.33 2,782 139.10 6,634 6,634.00 63,344 63,344.00 1.00 747,663	-18,700 -18,700.00	21,761 1,813.40 6,665 333.26 1,154 1,154.17 37,912 37,911.63 Bid: 89,892 199.76 818	15,600 1,300.00 19,100 19,100.00	431.4 111,35 9,279.8 16,45 822.8 10,32 10,320.9 153,65 153,650.8 00 LS 916,84 2,037.4 16,83
Mh: 21.04 Mh: 21.05 Mh: ****** Mh: **** Mh: Mh: **** Mh:	Pile Cap Rep 640.00 SI Tremie Seal 144.00 SI Dewatering 50.00 SI ****Biditem/Ca 1,074.00 M 84" PCCP 1,500.00 SI Joint Testing	placement hifts: 5. hifts: 2. hifts: 1. htegory Mh/Un:	.0 Mh/Un: 12 .0 Mh/Un: 20 .4 Mh/Un: 1.0 Mh/Un: 1.0 Mh/Un: 21 *** 1,074.0000 84" PCCP 450 .8 Mh/Un:	2.00 CY 53.333; 0.00 CY 7.2000 .00 LS 50.0000 ********	F6319A 3 Un/Sh: F6319A 0 Un/Sh: F6319A 0 Un/Sh: F6319A 3 Un/Sh:	50 10.00 2.4000 50 10.00 8.3333 50 10.00 1.0000 50 10.00 24.0000 50 10.00	30,769 2,564.12 7,010 350.50 2,533 2,532.82 51,995 51,995.25 Takeoff: 79,286 176.19	43,228 3,602.33 2,782 139.10 6,634 6,634.00 63,344 63,344.00 1.00 747,663 1,661.47	-18,700 -18,700.00	21,761 1,813.40 6,665 333.26 1,154 1,154.17 37,912 37,911.63 Bid: 89,892 199.76	15,600 1,300.00 19,100 19,100.00	431.4 111,35 9,279.8 16,45 822.8 10,32 10,320.9 153,65 153,650.8 00 LS 916,84 2,037.4 16,83
Mh: 21.04 Mh: 21.05 Mh: ****** Mh: ****** Mh: ****** 22.01 Mh: 22.02 Mh: 22.03	Pile Cap Rep 640.00 SI Tremie Seal 144.00 SI Dewatering 50.00 SI ****Biditem/Ca 1,074.00 M 84" PCCP 1,500.00 SI Joint Testing 75.00 SI Clean & Insp	placement hifts: 5. hifts: 2. hifts: 1. htegory Mh/Un: hifts: 18. g & Groutir hifts: pect	.0 Mh/Un: 12 .0 Mh/Un: 20 .4 Mh/Un: 1.0 Mh/Un: 1.0 Mh/Un: 21 *** 1,074.0000 84" PCCP 450 .8 Mh/Un: ng 25 Mh/Un: 450	0.00 CY 53.333; 0.00 CY 7.2000 .00 LS 50.0000 ********* 0.00 LS 3.333; 6.00 EA 3.0000 0.00 LF	F6319A 3 Un/Sh: F6319A 0 Un/Sh: F6319A 0 Un/Sh: F6319A 3 Un/Sh: F6319A 0 Un/Sh: F6319A	50 10.00 2.4000 50 10.00 8.3333 50 10.00 1.0000 50 10.00 50 10.00 50 10.00	30,769 2,564.12 7,010 350.50 2,533 2,532.82 51,995 51,995.25 Takeoff: 79,286 176.19 2,910 116.38 7,108	43,228 3,602.33 2,782 139.10 6,634 6,634.00 63,344 63,344.00 1.00 747,663 1,661.47 13,108	-18,700 -18,700.00	21,761 1,813.40 6,665 333.26 1,154 1,154.17 37,912 37,911.63 Bid: 89,892 199.76 818 32.71 525	15,600 1,300.00 19,100 19,100.00	431.4 111,35 9,279.8 16,45 822.8 10,32 10,320.9 153,65 153,650.8 00 LS 916,84 2,037.4 16,83 673.3 7,63
Mh: 21.04 Mh: 21.05 Mh: ****** Mh: 22.01 Mh: 22.02 Mh:	Pile Cap Rep 640.00 SI Tremie Seal 144.00 SI Dewatering 50.00 SI ****Biditem/Ca 1,074.00 M 84" PCCP 1,500.00 SI Joint Testing 75.00 SI Clean & Insp	placement hifts: 5. hifts: 2. hifts: 1. htegory Mh/Un: hifts: 18. g & Groutir hifts: pect	.0 Mh/Un: 12 .0 Mh/Un: 20 .4 Mh/Un: 1.0 Mh/Un: 21 *** 1,074.0000 84" PCCP 450 .8 Mh/Un: ng 25 Mh/Un: 450 .0 Mh/Un:	0.00 CY 53.333; 0.00 CY 7.2000 .00 LS 50.0000 ******** 0.00 LS 3.333; 0.00 EA 3.0000 0.00 LF 0.333;	F6319A 3 Un/Sh: F6319A 0 Un/Sh: F6319A 0 Un/Sh: F6319A 3 Un/Sh: F6319A 0 Un/Sh: F6319A	50 10.00 2.4000 50 10.00 8.3333 50 10.00 1.0000 50 10.00 24.0000 50 10.00	30,769 2,564.12 7,010 350.50 2,533 2,532.82 51,995 51,995.25 Takeoff: 79,286 176.19 2,910 116.38	43,228 3,602.33 2,782 139.10 6,634 6,634.00 63,344 63,344.00 1.00 747,663 1,661.47 13,108	-18,700 -18,700.00	21,761 1,813.40 6,665 333.26 1,154 1,154.17 37,912 37,911.63 Bid: 89,892 199.76 818 32.71	15,600 1,300.00 19,100 19,100.00	431.4 111.35 9,279.8 16,45 822.8 10,32 10,320.9 153,65 153,650.8 00 LS 916,84 2,037.4 16,83 673.3 7,63
Mh: 21.04 Mh: 21.05 Mh: ****** Mh: 22.01 Mh: 22.02 Mh: 22.03 Mh: ******	Pile Cap Rep 640.00 SI Tremie Seal 144.00 SI Dewatering 50.00 SI ****Biditem/Ca 1,074.00 M 84" PCCP 1,500.00 SI Joint Testing 75.00 SI Clean & Insp 150.00 SI ****Biditem/Ca	placement hifts: 5. hifts: 2. hifts: 1. htegory Mh/Un: hifts: 18. g & Groutin hifts: pect hifts: 3.	.0 Mh/Un: 12 .0 Mh/Un: 20 .4 Mh/Un: 1.0 Mh/Un: 1.0 Mh/Un: 21 *** 1,074.0000 84" PCCP 450 .8 Mh/Un: ng 25 Mh/Un: 450 .0 Mh/Un: 450 .0 Mh/Un:	0.00 CY 53.333; 0.00 CY 7.2000 .00 LS 50.0000 ********* 0.00 LS 3.333; 6.00 EA 3.0000 0.00 LF	F6319A 3 Un/Sh: F6319A 0 Un/Sh: F6319A 0 Un/Sh: F6319A 3 Un/Sh: F6319A 0 Un/Sh: F6319A	50 10.00 2.4000 50 10.00 8.3333 50 10.00 1.0000 50 10.00 50 10.00 50 10.00	30,769 2,564.12 7,010 350.50 2,533 2,532.82 51,995 51,995.25 Takeoff: 79,286 176.19 2,910 116.38 7,108 15.80 89,304	43,228 3,602.33 2,782 139.10 6,634 6,634.00 63,344 63,344.00 1.00 747,663 1,661.47 13,108 524.30	-18,700 -18,700.00	21,761 1,813.40 6,665 333.26 1,154 1,154.17 37,912 37,911.63 Bid: 89,892 199.76 818 32.71 525 1.17	15,600 1,300.00 19,100 19,100.00	431.4 111,35 9,279.8 16,45 822.8 10,32 10,320.9 153,65 153,650.8 00 LS 916,84 2,037.4 16,83 673.3 7,63 16.9
Mh: 21.04 Mh: 21.05 Mh: ****** Mh: 22.01 Mh: 22.02 Mh: 22.03 Mh: ******	Pile Cap Rep 640.00 SI Tremie Seal 144.00 SI Dewatering 50.00 SI ****Biditem/Ca 1,074.00 M 84" PCCP 1,500.00 SI Joint Testing 75.00 SI Clean & Insp 150.00 SI ****Biditem/Ca	placement hifts: 5. hifts: 2. hifts: 1. htegory Mh/Un: hifts: 18. g & Groutir hifts: pect hifts: 3.	.0 Mh/Un: 12 .0 Mh/Un: 20 .4 Mh/Un: 1.0 Mh/Un: 21 *** 1,074.0000 84" PCCP 450 .8 Mh/Un: ng 25 Mh/Un: 450 .0 Mh/Un:	0.00 CY 53.333; 0.00 CY 7.2000 .00 LS 50.0000 ******** 0.00 LS 3.333; 0.00 EA 3.0000 0.00 LF 0.333;	F6319A 3 Un/Sh: F6319A 0 Un/Sh: F6319A 0 Un/Sh: F6319A 3 Un/Sh: F6319A 0 Un/Sh: F6319A	50 10.00 2.4000 50 10.00 8.3333 50 10.00 1.0000 50 10.00 50 10.00 50 10.00	30,769 2,564.12 7,010 350.50 2,533 2,532.82 51,995.25 Takeoff: 79,286 176.19 2,910 116.38 7,108 15.80	43,228 3,602.33 2,782 139.10 6,634 6,634.00 63,344 63,344.00 1.00 747,663 1,661.47 13,108 524.30	-18,700 -18,700.00	21,761 1,813.40 6,665 333.26 1,154 1,154.17 37,912 37,911.63 Bid: 89,892 199.76 818 32.71 525 1.17	15,600 1,300.00 19,100 19,100.00	431.4 111,35 9,279.8 16,45 822.8 10,32 10,320.9 153,65 153,650.8 00 LS 916,84 2,037.4 16,83 673.3 7,63 16.9
Mh: 21.04 Mh: 21.05 Mh: ****** Mh: **** 22 22.01 Mh: 22.02 Mh: 22.03 Mh: ***** Mh: ******* Mh: *******	Pile Cap Rep 640.00 SI Tremie Seal 144.00 SI Dewatering 50.00 SI ****Biditem/Ca 1,074.00 M 84" PCCP 1,500.00 SI Joint Testing 75.00 SI Clean & Insp 150.00 SI ****Biditem/Ca	placement hifts: 5. hifts: 2. hifts: 1. htegory Mh/Un: hifts: 18. g & Groutin hifts: pect hifts: 3.	.0 Mh/Un: 12 .0 Mh/Un: 20 .4 Mh/Un: 1.0 Mh/Un: 1.0 Mh/Un: 21 *** 1,074.0000 84" PCCP 450 .8 Mh/Un: ng 25 Mh/Un: 450 .0 Mh/Un: 450 .0 Mh/Un:	2.00 CY 53.333; 0.00 CY 7.2000 .00 LS 50.0000 *******************************	F6319A 3 Un/Sh: F6319A 0 Un/Sh: F6319A 0 Un/Sh: F6319A 3 Un/Sh: F6319A 0 Un/Sh: F6319A	50 10.00 2.4000 50 10.00 8.3333 50 10.00 1.0000 50 10.00 50 10.00 50 10.00 150.0000	30,769 2,564.12 7,010 350.50 2,533 2,532.82 51,995 51,995.25 Takeoff: 79,286 176.19 2,910 116.38 7,108 15.80 89,304	43,228 3,602.33 2,782 139.10 6,634 6,634.00 63,344 63,344.00 1.00 747,663 1,661.47 13,108 524.30	-18,700 -18,700.00 LS	21,761 1,813.40 6,665 333.26 1,154 1,154.17 37,912 37,911.63 Bid: 89,892 199.76 818 32.71 525 1.17	15,600 1,300.00 19,100 19,100.00	431.4 111,35 9,279.8 16,45 822.8 10,32 10,320.9 153,65 153,650.8 00 LS 916,84 2,037.4 16,83 673.3 7,63 16.9 941,30 41,308.9
21.04 Mh: 21.05 Mh: ****** Mh: *** 22 22.01 Mh: 22.02 Mh: 22.03 Mh: ****** Mh:	Pile Cap Rep 640.00 SI Tremie Seal 144.00 SI Dewatering 50.00 SI ****Biditem/Ca 1,074.00 M 84" PCCP 1,500.00 SI Joint Testing 75.00 SI Clean & Insp 150.00 SI ****Biditem/Ca 1,725.00 M	placement hifts: 5. hifts: 2. hifts: 1. htegory Mh/Un: hifts: 18. g & Groutin hifts: pect hifts: 3.	.0 Mh/Un: 12 .0 Mh/Un: 20 .4 Mh/Un: 1.0 Mh/Un: 1.0 Mh/Un: 21 *** 1,074.0000 84" PCCP 450 .8 Mh/Un: ng 25 Mh/Un: 450 .0 Mh/Un: 22 *** 1,725.0000 60" Flap V	0.00 CY 53.333; 0.00 CY 7.2000 .00 LS 50.0000 ******** 0.00 LS 3.333; 0.00 EA 0.00 LF 0.333;	F6319A 3 Un/Sh: F6319A 0 Un/Sh: F6319A 0 Un/Sh: F6319A 3 Un/Sh: F6319A 0 Un/Sh: F6319A	50 10.00 2.4000 50 10.00 8.3333 50 10.00 1.0000 50 10.00 50 10.00 150.0000 50 10.00	30,769 2,564.12 7,010 350.50 2,533 2,532.82 51,995.25 Takeoff: 79,286 176.19 2,910 116.38 7,108 15.80 89,304 89,303.57 Takeoff:	43,228 3,602.33 2,782 139.10 6,634 6,634.00 1.00 747,663 1,661.47 13,108 524.30 760,770 760,770.00	-18,700 -18,700.00 LS	21,761 1,813.40 6,665 333.26 1,154 1,154.17 37,912 37,911.63 Bid: 89,892 199.76 818 32.71 525 1.17 91,235 91,235.35	15,600 1,300.00 19,100 19,100.00	431.4 111,35; 9,279.8; 16,45; 822.8; 10,32 10,320.9; 153,65 153,650.8



Biditem Activity	Description	Ç	Quantity	Unit	Calendar WC H	[rs/Shift	Labor	Perm Material	Constr Matl/Exp	Equip- Ment	Sub- Contract	Total
***** Mh:	*****Biditem/Category Mh/Un:	23	****	****					-10,000 -10,000.00		-1	-10,000 0,000.00
*** 26		PLat	tform				Takeoff:	1.00	LS	Bid:	1.0	00 LS
26.01	PLatform		48.00	SF	F6319A 50	10.00	3,963			1,791		5,754
Mh:	80.00 Shifts:	N	/lh/Un:	1.6667	Un/Sh:		82.56			37.31		119.87
****	*****Biditem/Category	26	*****	****			3,963			1,791		5,754
Mh:	80.00 Mh/Un:		0000				3,962.68			1,790.88		5,753.56
*** 27		D (4. 337			D 1 4 12	T-1 £6.	1.00	1.0	D:4.	1.0	00 LS
27.01	Milling Existing As		3,310.00		rom Lincoln l F6319A 50	10.00	rakeom:	1.00	r9	Bid:	9,930	9,930
Mh:	Shifts:	•	/Ih/Un:	51	Un/Sh:	10.00					3.00	3.00
27.02	Road Grading		3,300.00		F6319A 50	10.00	6,740	6,698		5,563		19,001
Mh:	132.00 Shifts:	3.3 N	/lh/Un:		Un/Sh: 1,0		2.04	2.03		1.69	40.650	5.76
27.03 Mh:	Paving Shifts:	λ.	3,310.00 4h/Un:	SY	F6319A 50 Un/Sh:	10.00					49,650 15.00	49,650 15.00
27.04	Striping and Signag		1.00	LS	F6319A 50	10.00					12,500	12,500
Mh:	Shifts:		/Ih/Un:	25	Un/Sh:	10.00					12,500.00 1	
	addan' Pro- 10	25	*****	داد ماه ماه ماه ماه ماه ماه ماه ماه ماه			(740	((00		5.500	70.000	01.001
Mh:	*****Biditem/Category 132.00 Mh/Un:	27 132.	0000	***			6,740 6,740.05	6,698 6,698.20		5,563 5,562.97	72,080 72,080.00 9	91,081 1,081.22
*** 28		Head	der Pipe S	vstem			Takeoff:	-1.00	LS	Bid:	-1.0	00 LS
28.01	Header Pipe System		-1.00		F6319A 50	10.00			-62,534			-62,534
Mh:	Shifts:	N	/lh/Un:		Un/Sh:				62,534.00		6	2,534.00
****	****Biditem/Category	28	****	****					-62,534			-62,534
Mh:	Mh/Un:								62,534.00		6	2,534.00
*** 290	29	Linc	oln Ct.				Takeoff:	1.00	LS	Bid:	1.0	00 LS
290.01	Connect 12" Drain				F6319A 50	10.00	9,437	407	187	3,606	2,800	16,437
Mh:	175.00 Shifts:		/lh/Un: 1.00		Un/Sh:	2.0000	1,348.19	58.09	26.75	515.15	400.00	
410.1 Mh:	Miscellaneous Item 168.80 Shifts:		1.00 4h/Un:	168.8000	F6319A 50 Un/Sh:	10.00 0.4739	,	19,154 19,154.04		7,017 7,017.42	3	34,525 4,524.85
	*****Biditem/Category 343.80 Mh/Un:	290	***** 8000	****			17,791 17,790.75	19,561	187 187.25	10,623	2,800 2,800.00 5	50,962
Mh:	343.80 Mh/Un:	343.	8000				17,790.73	19,300.04	167.23	10,623.48	2,800.00 3	0,902.12
*** 300	30	Linc	oln Terrac	ee			Takeoff:	1.00	LS	Bid:	1.0	00 LS
300.01	Connect 12" Drain	-			F6319A 50	10.00		464	214	4,121	3,200	18,784
Mh:	200.00 Shifts:		/lh/Un:		Un/Sh:	2.0000	1,348.19	57.94	26.75	515.15	400.00	-
410.1 Mh:	Miscellaneous Item 168.80 Shifts:		1.00 /lh/Un:		F6319A 50 Un/Sh:	10.00 0.4739	,	19,154 19,154.04		7,017 7,017.42	2	34,525 4,524.85
WIII.	100.00 511113.	2.1 IV	III/ CII.	100.0000	Ch/Sh.	0.7/37	0,333.37	17,137.07		7,017.42	3	7,527.05

	****Biditem/Category	300	****	****			19,139	19,618	214	11,139	3,200	53,309
Mh:	*****Biditem/Category 368.80 Mh/Un:		***** 8000	****			19,139 19,138.92		214 214.00	11,139 11,138.62	3,200 3,200.00 5	
Mh:	368.80 Mh/Un:	368.	8000		v Rd		19,138.92	19,617.56	214.00	11,138.62	3,200.00 5	3,309.10
Mh: *** 310	368.80 Mh/Un:	368.	8000 Street We	srt of Bay	<u> </u>	10.00	19,138.92 Takeoff:	19,617.56	214.00 LS	11,138.62 Bid:	3,200.00 5	3,309.10 00 LS
Mh:	368.80 Mh/Un:	368. 16th to Existing	8000 Street We	esrt of Bay	y Rd. F6319A 50 Un/Sh:	10.00 2.0000	19,138.92 Takeoff:	19,617.56	214.00	11,138.62	3,200.00 5	3,309.10 00 LS 21,133
Mh: *** 310 310.01 Mh: 410.1	31 Connect 12" Drain 225.00 Shifts: Miscellaneous Item	368. 16th to Existing 4.5 N	Street We 9.00 4h/Un: 1.00	esrt of Bay EA 25.0000 LS	F6319A 50 Un/Sh: F6319A 50	2.0000 10.00	19,138.92 Takeoff: 12,134 1,348.19 8,353	19,617.56 1.00 522 58.05 19,154	214.00 LS 241	Bid: 4,636 515.15 7,017	3,200.00 5 1.0 3,600 400.00	3,309.10 00 LS 21,133 2,348.15 34,525
Mh: *** 310 310.01 Mh:	31 Connect 12" Drain 225.00 Shifts:	368. 16th to Existing 4.5 N	Street We 9.00 Ih/Un:	esrt of Bay EA 25.0000 LS	F6319A 50 Un/Sh:	2.0000	19,138.92 Takeoff: 12,134 1,348.19 8,353	19,617.56 1.00 522 58.05	214.00 LS 241	Bid: 4,636 515.15	3,200.00 5 1.0 3,600 400.00	3,309.10 00 LS 21,133 2,348.15
Mh: *** 310 310.01 Mh: 410.1 Mh:	31 Connect 12" Drain 225.00 Shifts: Miscellaneous Item 168.80 Shifts:	368. 16th to Existing 4.5 N	Street We 9.00 4h/Un: 1.00	esrt of Bay EA 25.0000 LS 168.8000	F6319A 50 Un/Sh: F6319A 50	2.0000 10.00	19,138.92 Takeoff: 12,134 1,348.19 8,353	19,617.56 1.00 522 58.05 19,154	214.00 LS 241 26.75	Bid: 4,636 515.15 7,017 7,017.42	3,200.00 5 1.0 3,600 400.00	3,309.10 00 LS 21,133 2,348.15 34,525 4,524.85
Mh: *** 310 310.01 Mh: 410.1 Mh:	31 Connect 12" Drain 225.00 Shifts: Miscellaneous Item	368. 16th to Existing 4.5 M s 2.1 M	Street We 9.00 4h/Un: 1.00 4h/Un:	esrt of Bay EA 25.0000 LS 168.8000	F6319A 50 Un/Sh: F6319A 50	2.0000 10.00	19,138.92 Takeoff: 12,134 1,348.19 8,353 8,353.39	19,617.56 1.00 522 58.05 19,154 19,154.04 19,677	214.00 LS 241	Bid: 4,636 515.15 7,017	3,200.00 5 1.0 3,600 400.00	3,309.10 00 LS 21,133 2,348.15 34,525 4,524.85 55,658
Mh: *** 310 310.01 Mh: 410.1 Mh: ******* Mh: **** 320	31 Connect 12" Drain 225.00 Shifts: Miscellaneous Item 168.80 Shifts: *****Biditem/Category 393.80 Mh/Un:	368. 16th to Existing 4.5 M s 2.1 M 310 393.	8000 Street We 9.00 4h/Un: 1.00 4h/Un: ******* 8000 Street	esrt of Bay EA 25.0000 LS 168.8000	F6319A 50 Un/Sh: F6319A 50 Un/Sh:	2.0000 10.00 0.4739	19,138.92 Takeoff:	19,617.56 1.00 522 58.05 19,154 19,154.04 19,677 19,676.52	214.00 LS 241 26.75 241 240.75	Bid: 4,636 515.15 7,017 7,017.42 11,654 11,653.78 Bid:	3,200.00 5 1.0 3,600 400.00 3,600 3,600.00 5	3,309.10 00 LS 21,133 2,348.15 34,525 4,524.85 55,658 5,658.19 00 LS
Mh: *** 310 310.01 Mh: 410.1 Mh: ******* Mh: *** 320 320.01	368.80 Mh/Un: 31 Connect 12" Drain 225.00 Shifts: Miscellaneous Item 168.80 Shifts: *****Biditem/Category 393.80 Mh/Un: 32 Connect 12" Drain	368. 16th to Existing 4.5 M s 2.1 M 310 393. 16th to Existing	8000 Street We 9.00 4h/Un: 1.00 4h/Un: ****** 8000 Street 4.00	EA 25.0000 LS 168.8000	F6319A 50 Un/Sh: F6319A 50 Un/Sh:	2.0000 10.00 0.4739	19,138.92 Takeoff:	19,617.56 1.00 522 58.05 19,154 19,154.04 19,677 19,676.52 1.00 232	214.00 LS 241 26.75 241 240.75 LS	Bid: 4,636 515.15 7,017 7,017.42 11,654 11,653.78 Bid: 2,061	3,200.00 5 1.0 3,600 400.00 3 3,600 3,600.00 5	3,309.10 00 LS 21,133 2,348.15 34,525 4,524.85 55,658 5,658.19 00 LS 9,392
Mh: *** 310 310.01 Mh: 410.1 Mh: ******* Mh: *** 320 320.01 Mh:	31 Connect 12" Drain 225.00 Shifts: Miscellaneous Item 168.80 Shifts: *****Biditem/Category 393.80 Mh/Un: 32 Connect 12" Drain 100.00 Shifts:	368. 16th to Existing 4.5 M s 2.1 M 310 393. 16th to Existing 2.0 M	8000 Street We 9.00 4h/Un: 1.00 4h/Un: ******* 8000 Street 4.00 4h/Un:	EA 25.0000 EA 25.0000 LS 168.8000	F6319A 50 Un/Sh: F6319A 50 Un/Sh:	2.0000 10.00 0.4739 10.00 2.0000	Takeoff: 12,134 1,348.19 8,353 8,353.39 20,487 20,487.14 Takeoff: 5,393 1,348.19	19,617.56 1.00 522 58.05 19,154 19,154.04 19,677 19,676.52 1.00 232 57.94	214.00 LS 241 26.75 241 240.75 LS 107 26.75	Bid: 4,636 515.15 7,017 7,017.42 11,654 11,653.78 Bid: 2,061 515.15	3,200.00 5 1.0 3,600 400.00 3,600 3,600.00 5	3,309.10 00 LS 21,133 2,348.15 34,525 4,524.85 55,658 5,658.19 00 LS 9,392 2,348.03
Mh: *** 310 310.01 Mh: 410.1 Mh: ******* Mh: *** 320 320.01 Mh: 320.10	31 Connect 12" Drain 225.00 Shifts: Miscellaneous Item 168.80 Shifts: *****Biditem/Category 393.80 Mh/Un: 32 Connect 12" Drain 100.00 Shifts: 24" RCP Installatio	368. 16th to Existing 4.5 M s 2.1 M 310 393. 16th to Existing 2.0 M n	8000 Street We 9.00 4h/Un: 1.00 4h/Un: ****** 8000 Street 4.00 4h/Un: 150.00	EA 25.0000 EEA 25.0000 LS 168.8000 ****** EA 25.0000 LF	F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50	2.0000 10.00 0.4739 10.00 2.0000 10.00	Takeoff: 12,134 1,348.19 8,353 8,353.39 20,487 20,487.14 Takeoff: 5,393 1,348.19 5,399	19,617.56 1.00 522 58.05 19,154 19,154.04 19,677 19,676.52 1.00 232 57.94 24,203	214.00 LS 241 26.75 241 240.75 LS 107 26.75 720	Bid: 4,636 515.15 7,017 7,017.42 11,654 11,653.78 Bid: 2,061 515.15 4,536	3,200.00 5 1.0 3,600 400.00 3 3,600 3,600.00 5	3,309.10 00 LS 21,133 2,348.15 34,525 4,524.85 55,658 5,658.19 00 LS 9,392 2,348.03 34,858
Mh: *** 310 310.01 Mh: 410.1 Mh: ******* Mh: **** 320 320.01 Mh:	31 Connect 12" Drain 225.00 Shifts: Miscellaneous Item 168.80 Shifts: *****Biditem/Category 393.80 Mh/Un: 32 Connect 12" Drain 100.00 Shifts:	368. 16th to Existing 4.5 M s 2.1 M 310 393. 16th to Existing 2.0 M n	8000 Street We 9.00 4h/Un: 1.00 4h/Un: ******* 8000 Street 4.00 4h/Un:	EA 25.0000 LS 168.8000 ****** EA 25.0000 LF 0.7273	F6319A 50 Un/Sh: F6319A 50 Un/Sh:	2.0000 10.00 0.4739 10.00 2.0000 10.00 10.0514	Takeoff: 12,134 1,348.19 8,353 8,353.39 20,487 20,487.14 Takeoff: 5,393 1,348.19	19,617.56 1.00 522 58.05 19,154 19,154.04 19,677 19,676.52 1.00 232 57.94	214.00 LS 241 26.75 241 240.75 LS 107 26.75	Bid: 4,636 515.15 7,017 7,017.42 11,654 11,653.78 Bid: 2,061 515.15	3,200.00 5 1.0 3,600 400.00 3 3,600 3,600.00 5	3,309.10 00 LS 21,133 2,348.15 34,525 4,524.85 55,658 5,658.19 00 LS 9,392 2,348.03
Mh: *** 310 310.01 Mh: 410.1 Mh: ******* Mh: *** 320 320.01 Mh: 320.10 Mh:	31 Connect 12" Drain 225.00 Shifts: Miscellaneous Item 168.80 Shifts: *****Biditem/Category 393.80 Mh/Un: 32 Connect 12" Drain 100.00 Shifts: 24" RCP Installatio 109.09 Shifts:	368. 16th to Existing 4.5 M s 2.1 M 310 393. 16th to Existing 2.0 M n 1.4 M	8000 Street We 9.00 4h/Un: 1.00 4h/Un: ****** 8000 Street 4.00 4h/Un: 150.00 4h/Un: 150.00	EA 25.0000 LS 168.8000 ****** EA 25.0000 LF 0.7273 CY	F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: F6319A 50 Un/Sh: 1	2.0000 10.00 0.4739 10.00 2.0000 10.00 10.0514	Takeoff: 12,134 1,348.19 8,353 8,353.39 20,487 20,487.14 Takeoff: 5,393 1,348.19 5,399 35.99	19,617.56 1.00 522 58.05 19,154 19,154.04 19,677 19,676.52 1.00 232 57.94 24,203	214.00 LS 241 26.75 241 240.75 LS 107 26.75 720 4.80	Bid: 4,636 515.15 7,017 7,017.42 11,654 11,653.78 Bid: 2,061 515.15 4,536 30.24	3,200.00 5 1.0 3,600 400.00 3 3,600 3,600.00 5	3,309.10 00 LS 21,133 2,348.15 34,525 4,524.85 55,658 5,658.19 00 LS 9,392 2,348.03 34,858 232.38



				11001110		, u,				
Biditem Activity	Description	Quantity	Unit	Calen WC	dar Hrs/Shift	Labor	Perm Material	Constr Matl/Exp	Equip- Ment	Sub- Contract Total
320.12	Dewatering	150.00	LF	F6319A	50 10.00	760	2,022		346	3,128
Mh:	15.00 Shifts: 0.	.3 Mh/Un:	0.1000	Un/Sh:	500.0000	5.07	13.48		2.31	20.86
320.13	36" RCP Installation	360.00	LF	F6319A	50 10.00	12,955	71,780	1,620	10,882	97,237
Mh:	261.79 Shifts: 3.	.3 Mh/Un:	0.7272	Un/Sh:	110.0244	35.99	199.39	4.50	30.23	270.10
320.14	Haul Out Muck	162.00	CY	F6319A	50 10.00	5,266		9,000	6,574	20,840
Mh:	98.30 Shifts:	Mh/Un:	0.6068	Un/Sh:		32.51		55.56	40.58	128.64
320.16	Dewatering	360.00	LF	F6319A			4,869		1,662	10,178
Mh:		.4 Mh/Un:	0.2000				13.52		4.62	28.27
320.20	Precast Type J (MH-16			F6319A			11,021		8,479	28,398
Mh:		.0 Mh/Un:	90.0000		1.0000	4,449.09	5,510.45		4,239.71	14,199.24
320.30	Mud Work	2.00		F6319A			139		953	6,157
Mh:	100.00 Shifts: 2.			Un/Sh:		,	69.55		476.25	3,078.64
410.1	Miscellaneous Items	1.00		F6319A			19,154		7,017	34,525
Mh:	168.80 Shifts: 2.	.1 Mh/Un:	168.8000	Un/Sh:	0.4739	8,333.39	19,154.04		7,017.42	34,524.85
	****Biditem/Category 1,129.58 Mh/Un:	320 ****** 1,129.5800	****			57,054 57,054.41	133,420 133,419.50	13,697 13,697.00	44,155 44,155.38	1,600 249,926 1,600.00 249,926.29
*** 330	33	15th Terrace				Takeoff:	1.00	LS	Bid:	1.00 LS
330.10	24" RCP Installation	250.00		F6319A			13,376	1,125	7,560	31,057
Mh:	181.81 Shifts: 2.	.3 Mh/Un:	0.7272		110.0352		53.50	4.50	30.24	124.23
330.11	Haul Out Muck	107.00		F6319A	50 10.00			6,500	4,293	14,232
Mh:	64.20 Shifts:	Mh/Un:	0.6000			32.14		60.75	40.12	133.01
330.12	Dewatering	250.00		F6319A		,	3,371		1,154	7,057
Mh:	50.00 Shifts: 1.		0.2000				13.48		4.62	28.23
330.21	Precast Type J (MH-15			F6319A			11,021		8,479	28,398
Mh:		.0 Mh/Un:	90.0000		1.0000	4,449.09	5,510.45		4,239.71	14,199.24
330.22	Catch Basin Type F (S'			F6319A		•	2,690		1,663	6,332
Mh: 330.23	40.00 Shifts: 0.			Un/Sh: F6319A		1,979.49 3,959	2,689.93 2,786		1,662.90	6,332.32 10,071
Mh:	Precast Type J (ST-145 80.00 Shifts: 1.	,		Un/Sh:	1.0000				3,326 3,325.79	10,070.98
330.30	Mud Work	4.00		F6319A			1,113		1,905	13,149
Mh:		.0 Mh/Un:	50.0000		1.0000	2,532.84	278.20		476.25	3,287.29
330.40	Removal of Existing 16			F6319A			270.20	450	6,007	14,375
Mh:	•	.0 Mh/Un:		Un/Sh:				4.50	60.07	143.75
410.1	Miscellaneous Items	1.00		F6319A			19,154		7,021	34,532
Mh:	168.88 Shifts: 2.	.1 Mh/Un:	168.8800			8,357.36	19,154.04		7,020.76	34,532.16
	****Biditem/Category 1,124.89 Mh/Un:	330 ****** 1,124.8900	****			56,213 56,212.53	53,510 53,509.96	8,075 8,075.00	41,408 41,407.96	159,205 159,205.45
*** 340	34	15th Street				Takeoff:	1.00	LS	Bid:	1.00 LS
340.01	Exiting Inlet Riser Insta	allation 1.00	EA	F6319A	50 10.00	1,157	1,070		917	3,144
Mh:		.3 Mh/Un:		Un/Sh:	3.0030		1,070.00		916.93	3,144.14
410.1	Miscellaneous Items	1.00			50 10.00		,		7,017	34,525
Mh:	168.80 Shifts: 2.	.1 Mh/Un:	168.8000	Un/Sh:	0.4739	8,353.39	19,154.04		7,017.42	34,524.85
***** Mh:	****Biditem/Category 192.13 Mh/Un:	340 ***** 192.1300	****			9,511 9,510.60	20,224 20,224.04		7,934 7,934.35	37,669 37,668.99
*** 360	36	14th Court				Takeoff:	1.00	IS	D:1.	1.00 LS
360.01	30" RCP Installation	14th Court 80.00	IF	F6319A	50 10.00			360	Bid: 2,418	21,608
Mh:		.7 Mh/Un:			110.0413	,	199.39	4.50	30.22	270.10
360.02	Haul Out Muck	36.00		F6319A			1//.3/	2,023	1,461	4,653
Mh:	21.84 Shifts:	Mh/Un:		Un/Sh:		32.50		56.18	40.57	129.25
360.03	Dewatering	80.00			50 10.00		1,086	23.23	185	1,676
Mh:		.2 Mh/Un:			500.0000		13.58		2.31	20.95
360.20	Catch Basin Type F (S				50 10.00				1,663	6,332
Mh:	40.00 Shifts: 0.		40.0000	Un/Sh:	2.0000	1,979.49	2,689.93		1,662.90	6,332.32
360.30	Mud Work		EA	F6319A		1,266			238	1,783
Mh:	25.00 Shifts: 0.			Un/Sh:					238.13	1,782.78
410.1	Miscellaneous Items	1.00			50 10.00	,	,		7,017	34,525
Mh:	168.80 Shifts: 2.	.1 Mh/Un:	168.8000	Un/Sh:	0.4739	8,353.39	19,154.04		7,017.42	34,524.85



Bidi Activity		ription			Quantity	Unit	Caler WC	ndar Hrs/Shift	Labor	Perm Material	Constr Matl/Exp	Equip- Ment	Sub- Contract	Total
: Ml	******B		Category Mh/Un:	360) ***** 21.8100	****			16,053 16,053.11	39,159 39,159.38	2,383 2,382.50	12,982 12,981.51	7	70,577 70,576.50
***	380	38		L	incoln Road				Takeoff:	1.00	LS	Bid:	1.0	00 LS
380.01	2	4" RCP	Installation		265.00	LF	F6319A	50 10.00	9,537	42,758	1,193	8,012		61,499
Mh:	192.	71	Shifts:	2.4	Mh/Un:	0.727	2 Un/Sh	110.0498	35.99	161.35	4.50	30.23		232.07
380.02		Iaul Out			80.00		F6319A				4,705	3,210		10,486
Mh:	48.0		Shifts:		Mh/Un:		00 Un/Sh		32.14	2.520	58.81	40.12		131.08
380.03		ewateri		1 1	265.00 Mh/Un:		F6319A	50 10.00 : 250.0000		3,520		1,223		7,429
Mh: 380.10	53.0		Shifts: Installation	1.1 Cred			F6319A			13.28 -27,264	-824	4.62 -5,531		28.03
Mh:	-133.0			-1.7	Mh/Un:	0.727				148.98	4.50	30.22		219.69
380.11			: Muck (Cre		-55.00		F6319A			1.0.,0	-3,235	-2,207		-7,210
Mh:	-33.0	00	Shifts:		Mh/Un:	0.600	00 Un/Sh		32.14		58.82	40.12		131.08
380.12	Г	ewateri	ng (Credit)		-183.00	LF .	F6319A	50 10.00	-1,854	-2,434		-845		-5,133
Mh:	-36.0			-0.7	Mh/Un:		00 Un/Sh			13.30		4.62		28.05
380.13			Installation	(,		F6319A		,		-2,230	-54,947		-277,408
Mh:	-1,029.		Shifts: -		Mh/Un:	2.812				460.71	6.09	150.13		757.95
380.14 Mh:	-167.0		: Muck (Cre Shifts:	eait)	-283.00 Mh/Un:		F6319A 2 Un/Sh		-8,947 31.62		-5,103 18.03	-11,169 39.47		-25,219 89.11
380.15			ng (Credit)		-366.00		F6319A			-35,984	18.03	-845		-38,683
Mh:	-36.0		U \ /	-0.7	Mh/Un:		00 Un/Sh			98.32		2.31		105.69
380.16			Installation				F6319A				-2,308	-51,945		-223,984
Mh:	-858.	76	Shifts:	-9.5	Mh/Un:	3.750	00 Un/Sh	24.0019	188.02	553.16	10.08	226.84		978.09
380.17	H	Iaul Out	: Muck (Cre	edit)	-183.00	CY	F6319A	50 10.00	-5,882		-3,250	-7,343		-16,475
Mh:	-109.		Shifts:		Mh/Un:		00 Un/Sh		32.14		17.76	40.12		90.03
380.18			ng (Credit)		-229.00		F6319A		,	,		-529		-17,626
Mh:	-22.9			-0.5	Mh/Un:	0.100				69.60		2.31		76.97
380.20 Mh:	320.0		Ype V (ST Shifts:	-134,13 4.0	Mh/Un:	EA 80.000	F6319A 0 Un/Sh			,		13,303 3,325.79	1	40,284
380.21			ype J (MH-) EA	F6319A			11,021		8,479	,	28,398
Mh:	180.0		Shifts:	2.0	Mh/Un:		00 Un/Sh		,	5,510.45		4,239.71	1	4,199.24
380.25		1ud Wo				EA	F6319A			1,669		2,858		19,724
Mh:	300.0	00	Shifts:	6.0	Mh/Un:	50.000	00 Un/Sh	1.0000	2,532.84	278.20		476.25		3,287.29
380.30	P	recast T	ype J (Cred	lit)	-2.00			50 10.00	-7,918	-11,021		-6,652		-25,590
Mh:	-160.0			-2.0	Mh/Un:		00 Un/Sh			5,510.45		3,325.79	1	2,795.18
410.1 Mh:	168.3		neous Items Shifts:	2.1	Mh/Un:	168.800	F6319A 00 Un/Sh			19,154 19,154.04		7,017 7,017.42	3	34,525 34,524.85
	********B h: -1,324.0		Category Mh/Un:	38 (-1,3		*****			,	-298,668 -298,667.76	-11,051 -11,050.70	-97,909 -97,908.99		-475,186 75,185.83
***	400	40		V	Vest Ave. (Li	ncoln Rd	. to 14th S	t.)	Takeoff:	1.00	LS	Bid:	1.0	00 LS
400.01			Installation		40.00			50 10.00			180	1,211		9,171
Mh:			Shifts:	0.4	Mh/Un:			110.1928		158.53	4.50	30.26		229.28
400.02			Muck		11.00 Mb/Un:			50 10.00	354 32.14		59.96	441		1,442
Mh: 400.03		60 Dewateri	Shifts:		Mh/Un: 40.00		00 Un/Sh	50 10.00		524	58.86	40.12 375		1,723
Mh:			Shifts:	0.3	Mh/Un:			: 123.0769		13.11		9.38		43.07
400.11			Installation		123.00			50 10.00			554	3,718		28,544
Mh:			Shifts:	1.1	Mh/Un:			: 110.0179		161.35	4.50	30.23		232.07
400.12	Н	Iaul Out	Muck		39.00			50 10.00			2,293	1,565		5,111
Mh:	23.4	40	Shifts:		Mh/Un:	0.600	00 Un/Sh		32.14		58.78	40.12		131.05
400.13		ewateri	-		123.00			50 10.00				1,154		5,335
Mh:			Shifts:	1.0	Mh/Un:			123.0000		13.40	1.000	9.38		43.37
400.20			Installation		274.00 Mb/Un:			50 10.00		,	1,233	8,285		87,108
Mh: 400.21			Shifts: Muck	2.5	Mh/Un: 165.00			110.0402 50 10.00		247.19	4.50 3,055	30.24 6,621		317.91
400.21 Mh:			Shifts:		Mh/Un:		00 Un/Sh		32.14		18.52	40.12		90.78
400.22		oo Dewateri			274.00			50 10.00		3,708	10.52	1,265		7,749
Mh:	54.5		Shifts:	1.1	Mh/Un:			250.0000		13.53		4.62		28.28
400.30	9	6" RCP	Installation		339.00			50 10.00			3,416	76,895		396,988
Mh:	1,271.		Shifts:	14.1	Mh/Un:		00 Un/Sh			746.13	10.08	226.83		1,171.06
400.31	Н	Iaul Out	Muck		272.00	CY	F6319A	50 10.00	8,742		4,858	10,914		24,514

04062021 West Ave 091 North - 60% Drainage 2021



Biditem						Calen	dar		Perm	Constr	Equip-	Sub-	
Activity	Description			Quantity	Unit	WC	Hrs/Shift	Labor	Material	Matl/Exp	Ment	Contract	Total
Mh:	163.20	Shifts:		Mh/Un:	0.6000	Un/Sh:		32.14		17.86	40.12		90.12
400.32	Dewateri	ing		339.00	LF	F6319A	50 10.00	1,717	33,373		783	1	35,873
Mh:	33.90	Shifts:	0.7	Mh/Un:	0.1000	Un/Sh:	500.0000	5.07	98.45		2.31		105.82
400.5	Manhole	J-7 12' x 1	12' (ST-1	46 2.00	EA	F6319A	50 10.00	17,796	43,056		19,863		80,715
Mh:	360.00	Shifts:	4.0	Mh/Un:	180.0000	Un/Sh:	0.5000	8,898.19	21,527.91		9,931.58	40,3	357.68
400.52	Curb Inle	et Type 6 8'	Dia. (S7	Γ-1 3.00	EA	F6319A	50 10.00	15,008	16,618		12,719	4	44,345
Mh:	300.00	Shifts:	3.0	Mh/Un:	100.0000	Un/Sh:	1.0000	5,002.55	5,539.34		4,239.71	14,	781.60
400.53	Catch Ba	sin Type 1	0 Round	(S 1.00	EA	F6319A	50 10.00	1,979	2,407		1,663		6,050
Mh:	40.00	Shifts:	0.5	Mh/Un:	40.0000	Un/Sh:	2.0000	1,979.49	2,407.45		1,662.90	6,0	049.84
400.54	Curb Inle	et Type 6 6	'x6' (ST-	14 1.00	EA	F6319A	50 10.00	5,003	6,745		4,240		15,987
Mh:	100.00	Shifts:	1.0	Mh/Un:	100.0000	Un/Sh:	1.0000	5,002.54	6,745.23		4,239.71	15,9	987.48
400.70	Exiting I	nlet Riser I	nstallatio	on 3.00	EA	F6319A	50 10.00	3,472	3,210		2,754		9,436
Mh:	70.00	Shifts:	1.0	Mh/Un:	23.3333	Un/Sh:	3.0000	1,157.43	1,070.00		917.85	3,	145.28
410.1	Miscella	neous Items	S	1.00	LS	F6319A	50 10.00	8,353	19,154		7,017	3	34,525
Mh:	168.80	Shifts:	2.1	Mh/Un:	168.8000	Un/Sh:	0.4739	8,353.39	19,154.04		7,017.42	34,	524.85
****	****Biditem/	/Category	400	****	****			154,579	477,299	16,235	161,481	80	09,595
	3,075.02	Mh/Un:	3,07	5.0200				154,579.35	477,299.18	16,235.40	161,481.46	809,	595.39
Mh:	15,266.81	***REP	ORT T	OTALS***				749,027	1,675,342	119,957	611,491	684,506 3,84	40,324

N = Activity not adjusted to bid quantity



West Avenue North - 091

Water Quality	_									
Item	Qty	Unit	Subcontractor	Material	МН	Labor Rate	Total	Equipment	NewTotal Original Tota	1 Delta Notes
General Conditions General Conditions		LS	\$ - \$	426,230.00	600	\$ 347.13	\$ 208,275.00	\$ 72,000.00	\$ 706,505.00	\$ 706,505.00
Settelment Tank Drill 30' Template										
Exacavate and Haul Concrete Template	170 115	CY CY	\$ 835.00 \$			\$ 47.64 \$ 47.64		\$ 9,110.00 \$ 9,871.00	\$ 16,615.00 \$ 33,179.00	\$ 16,615.00 \$ 33,179.00
Forms (Sonotube) Forms (Exterior)	120 5	EA EA	\$ - \$ \$ - \$	7,790.00 6,433.00	840 140	\$ 47.64 \$ 47.64	\$ 40,019.00 \$ 6,670.00	\$ 54,660.00 \$ 9,110.00	\$ 102,469.00 \$ 22,213.00	\$ 102,469.00 \$ 22,213.00
Blocking Survey Concrete Pump	5 1	LS LS	\$ - \$ \$ 9,750.00 \$ \$ 3,574.00 \$		35	\$ 47.63	\$ 1,667.00 \$ -	\$ 2,277.00 \$ -	\$ 3,944.00 \$ 9,750.00 \$ 3,574.00	\$ 3,944.00 \$ 9,750.00 \$ 3,574.00
Haul Old Template Debris Drill and Place Grout	1	LS	\$ - \$		70	\$ 47.64	\$ 3,335.00	\$ 4,555.00 \$ -	\$ 14,612.00	\$ 14,612.00
Drill and Place Grout Grout			\$ - 5	116,595.00	3600	\$ 44.54	\$ 160,359.00 \$ -	\$ 415,160.00 \$ -	\$ 575,519.00 \$ 116,595.00	\$ 575,519.00 \$ 116,595.00
Rebar Spoils Disposal	131250 750	LBS CY	\$ 39,454.00 \$ \$ 8,454.00 \$				\$ - \$ -	\$ - \$ -	\$ 102,778.00 \$ 8,454.00	\$ 102,778.00 \$ 8,454.00
Concrete Pump Mass Excavation and Tremie	750	CY	\$ 10,721.00 \$				\$ -	\$ -	\$ 10,721.00	\$ 10,721.00
Excavation Excavation (Last 4') Clean Sides	740 110 5	CY CY EA	\$ - \$ \$ - \$	-	173.34	\$ 44.19 \$ 44.18 \$ 44.18	\$ 17,674.00 \$ 7,659.00 \$ 5,302.00	\$ 22,775.00 \$ 9,871.00 \$ 6,832.00	\$ 40,449.00 \$ 17,530.00 \$ 12,134.00	\$ 40,449.00 \$ 17,530.00 \$ 12,134.00
Tremie Pour Tremie Rebar/Bottom Slab	250 43750	CY LB	\$ - \$	33,504.00	520			\$ 29,607.00	\$ 86,087.00 \$ 36,604.00	\$ 86,087.00 \$ 36,604.00
Dewater and Seal Leveling Course	5	EA CY	\$ - \$		200 198.33		\$ 8,838.00 \$ 9,450.00	\$ 11,387.00 \$ 12,904.00	\$ 20,225.00 \$ 29,055.00	\$ 20,225.00 \$ 29,055.00
Trucking Tremie Pump and Leveling Course	1	LS LS	\$ 9,582.00 \$ \$ 3,216.00 \$				\$ - \$ -	\$ - \$ -	\$ 9,582.00 \$ 3,216.00	\$ 9,582.00 \$ 3,216.00
Poly Tube Injection / Seal	1	LS	\$ - \$	8,935.00			\$ -	\$ -	\$ 8,935.00	\$ 8,935.00
Wet Well Drill 33' (15' Dia.) Template	170	O/	\$ 835.00 \$		440	6 47.64	6 6670.00	ć 0.440.00	6 45 545 00	45 45 515 99
Exacavate and Haul Concrete Template Forms (Sonotube)	170 115 120	CY CY EA	\$ 835.00 \$ \$ - \$ \$ - \$	16,082.00	151.67 840	\$ 47.64 \$ 47.64 \$ 47.64	\$ 6,670.00 \$ 7,226.00 \$ 40,019.00	\$ 9,110.00 \$ 9,871.00 \$ 54,660.00	\$ 16,615.00 \$ 33,179.00 \$ 102,469.00	\$ 16,615.00 \$ 33,179.00 \$ 102,469.00
Forms (Exterior) Blocking	5	EA EA	\$ - \$	6,433.00	140	\$ 47.64 \$ 47.63	\$ 6,670.00 \$ 1.667.00	\$ 9,110.00 \$ 2,277.00	\$ 22,213.00 \$ 3,944.00	\$ 22,213.00 \$ 3,944.00
Survey Concrete Pump	1	LS LS	\$ 9,750.00 \$ \$ 3,574.00 \$	-		,	\$ -	\$ -	\$ 9,750.00 \$ 3,574.00	\$ 9,750.00 \$ 3,574.00
Haul Old Template Debris Drill and Place Grout	1	LS	\$ - \$	7		\$ 47.64	\$ 3,335.00	\$ 4,555.00	\$ 14,612.00	\$ 14,612.00
Drill and Place Grout Grout	120 810	EA CY	\$ - \$	135,725.00	4760	\$ 44.54	\$ 212,031.00 \$ -	\$ 548,935.00 \$ -	\$ 760,966.00 \$ 135,725.00	\$ 760,966.00 \$ 135,725.00
Rebar Spoils Disposal	750	CY	\$ 42,610.00 \$ \$ 9,394.00 \$				7	\$ - \$ -	\$ 118,616.00 \$ 9,394.00	\$ 118,616.00 \$ 9,394.00
Concrete Pump Mass Excavation and Tremie Excavation	810 810	CY	\$ 10,721.00 \$	-	277	\$ 44.19	\$ -	\$ - \$	\$ 10,721.00 \$ 37,618.00	\$ 10,721.00 \$ 37,618.00
Excavation (Last 8') Clean Sides	235 5	CY CY EA	\$ - \$			\$ 44.18	\$ 16,437.00 \$ 16,362.00 \$ 6,480.00	\$ 21,085.00 \$ 8,349.00	\$ 37,618.00 \$ 37,447.00 \$ 14,829.00	\$ 37,618.00 \$ 37,447.00 \$ 14,829.00
Tremie Pour Tremie Rebar/Bottom Slab	160 28000	CY LB	\$ - \$	24,874.00	253.34 0	\$ 44.19 #DIV/0!	\$ 11,194.00 \$ -	\$ 14,426.00 \$ -	\$ 50,494.00 \$ 23,427.00	\$ 50,494.00 \$ 23,427.00
Dewater and Seal Leveling Course	1 35	LS CY	\$ - \$ \$ - \$	4,691.00		\$ 44.18 \$ 47.64	\$ 7,659.00 \$ 5,558.00	\$ 9,871.00 \$ 7,593.00	\$ 17,530.00 \$ 17,842.00	\$ 17,530.00 \$ 17,842.00
Trucking Tremie Pump and Leveling Course	1	LS	\$ 9,582.00 \$ \$ 3,216.00 \$	-			\$ - \$ -	\$ - \$ -	\$ 9,582.00 \$ 3,216.00	\$ 9,582.00 \$ 3,216.00
Poly Tube Injection / Seal Mechanical Work Baffle Skimmer	1 5	LS FA	\$ - \$,	400	¢ 40.04	\$ -	\$ 5,050,00	\$ 8,350.00	\$ 8,350.00
Baffle Skimmer 25 HP Flygt Pump 12" DIP Discharge	5 5 550	EA EA LF	\$ - \$ \$ - \$	693,997.00	100 600 146.66		\$ 27,996.00	\$ 5,850.00 \$ 29,250.00 \$ 8,579.00	\$ 64,214.00 \$ 751,243.00 \$ 33,482.00	\$ 64,214.00 \$ 751,243.00 \$ 33,482.00
12" DIP Discharge 12" Check Valve NBG Sets / Flanges	550 5 100	EA EA	\$ - \$ \$ - \$	31,828.00	45	\$ 48.64 \$ 48.64 \$ 48.64	\$ 7,133.00 \$ 2,189.00 \$ 14,592.00	\$ 8,579.00 \$ 2,632.00 \$ 17,550.00	\$ 33,482.00 \$ 36,649.00 \$ 78,473.00	\$ 33,482.00 \$ 36,649.00 \$ 78,473.00
24" x 12" Cross w/ Cap 24" Well	5 500	EA LF	\$ - \$	11,140.00	40 25	\$ 48.65 \$ 48.68	\$ 1,946.00 \$ 1,217.00	\$ 2,340.00 \$ 1,462.00	\$ 15,426.00 \$ 386,774.00	\$ 15,426.00 \$ 386,774.00
36" x 78" HS 20 Hatch & Frame 56" x 60" HS 20 Hatch & Frame	5 5	EA EA	\$ - \$ \$ - \$	-	25 25	\$ 48.68 \$ 48.68	\$ 1,217.00 \$ 1,217.00	\$ 1,462.00 \$ 1,462.00	\$ 2,679.00 \$ 2,679.00	\$ 2,679.00 \$ 2,679.00
56" x 112" HS 20 Hatch & Frame 11'-8" x 8' x 7' Vault	5	EA EA	\$ - \$ \$ - \$	48,150.00	40 250	\$ 48.64	\$ 1,946.00 \$ 12,160.00	\$ 2,340.00 \$ 14,625.00	\$ 4,286.00 \$ 74,935.00	\$ 4,286.00 \$ 74,935.00
Concrete Cover (15' Dia.) Platform (8.44 NAVD) Landscaping Screening	5	EA EA	\$ - \$ \$ 40,000.00 \$			\$ 48.63 \$ 48.63	\$ 2,918.00 \$ 1,459.00	\$ 3,510.00 \$ 1,755.00	\$ 62,603.00 \$ 43,214.00 \$ 27,500.00	\$ 62,603.00 \$ 43,214.00 \$ 27,500.00
Landscaping Screening Grout / Seal / Coatings Start up / Commissioning	5 5	LS LS EA	\$ 37,500.00 \$ \$ - \$ \$ -	26,750.00	225 50		\$ - \$ 10,944.00 \$ 2,432.00	\$ - \$ 13,162.00 \$ 2,925.00	\$ 37,500.00 \$ 50,856.00 \$ 6,962.00	\$ 37,500.00 \$ 50,856.00 \$ 6,962.00
Warranty Allowance 24" Well Credit	1 1	LS LS	\$ - \$			\$ 48.64		\$ 2,925.00 \$ 5,850.00 \$ -	\$ 6,962.00 \$ 21,414.00 \$ (201,251.00)	\$ 6,962.00 \$ 21,414.00 \$ (201,251.00)
Electrical / I&C Control Pannels w/ Floats	5	EA	\$ 170,000.00 \$			#DIV/0!	\$ -	\$ -	\$ 170,000.00	\$ 170,000.00
Ductbank - Civil	1650	LF	\$ - \$	26,322.00	2227	\$ 46.67	\$ 103,936.00	\$ 108,589.00	\$ 238,847.00	\$ 238,847.00
Settelment Tank Drill 30' Template										
Exacavate and Haul Concrete Template	98 78	CY	\$ - \$	13,375.00	98		\$ 4,002.00 \$ 4,669.00	\$ 5,466.00 \$ 6,377.00	\$ 9,468.00 \$ 24,421.00	\$ 9,468.00 \$ 24,421.00
Forms (Sonotube) Forms (Exterior) Blocking	64 2 2	EA EA	\$ - \$ \$ - \$	5,350.00		\$ 47.64 \$ 47.64 \$ 42.00	\$ 21,344.00 \$ 2,668.00 \$ 2,001.00	\$ 29,152.00 \$ 3,644.00 \$ 2,733.00	\$ 54,605.00 \$ 11,662.00 \$ 5,804.00	\$ 54,605.00 \$ 11,662.00 \$ 5,804.00
Survey Concrete Pump	2	EA EA	\$ 7,800.00 \$ \$ 2,333.00 \$		0	#DIV/0!	\$ - \$ -	\$ - \$ -	\$ 7,800.00 \$ 2,333.00	\$ 7,800.00 \$ 2,333.00
Haul Old Template Debris Drill and Place Grout	2	EA	\$ - \$			\$ 47.62	\$ 1,000.00	\$ 1,366.00	\$ 3,166.00	\$ 3,166.00
Drill and Place Grout Grout	64 384	EA CY	\$ - \$		1917 0	\$ 44.54 #DIV/0!	\$ 85,391.00 \$ -	\$ 221,073.00 \$ -	\$ 306,464.00 \$ 59,578.00	\$ 306,464.00 \$ 59,578.00
Rebar Spoils Disposal	134750 300	LBS	\$ 69,127.00 \$ \$ 5,062.00 \$		0	#DIV/0!	\$ - \$ -	\$ -	\$ 141,218.00 \$ 5,062.00	\$ 141,218.00 \$ 5,062.00
Concrete Pump Mass Excavation and Tremie	384	CY	\$ 4,815.00 \$		0	#DIV/0!	\$ -	\$ -	\$ 4,815.00	\$ 4,815.00
Excavation Excavation (Last 4') Clean Sides	558 186 2	CY CY EA	\$ - \$ \$ - \$		296	\$ 44.18 \$ 44.19 \$ 44.19	\$ 16,260.00 \$ 13,079.00 \$ 5,656.00	\$ 20,953.00 \$ 16,853.00 \$ 7,288.00	\$ 37,213.00 \$ 29,932.00 \$ 12,944.00	\$ 37,213.00 \$ 29,932.00 \$ 12,944.00
Tremie Pour Tremie Rebar/Bottom Slab	145 20300	CY LBS	\$ - \$	15,515.00	200		\$ 8,837.00 \$ -	\$ 11,387.00 \$ -	\$ 35,739.00 \$ 21,011.00	\$ 35,739.00 \$ 21,011.00
Dewater and Seal Leveling Course	2 24	EA CY	\$ - 5			\$ 44.19 \$ 47.64	\$ 3,535.00 \$ 2,668.00	\$ 4,555.00 \$ 3,644.00	\$ 8,090.00 \$ 9,522.00	\$ 8,090.00 \$ 9,522.00
Trucking Tremie Pump and Leveling Course	2	LS EA	\$ 10,547.00 \$ \$ 2,140.00 \$		0	#DIV/0!		\$ -	\$ 10,547.00 \$ 2,140.00	\$ 10,547.00 \$ 2,140.00
Poly Tube Injection / Seal	2	EA	\$ - \$	5,350.00	0	#DIV/0!	\$ -	\$ -	\$ 5,350.00	\$ 5,350.00
Wet Well Drill 33' (20' Dia.) Template Exacavate and Haul	123	CY	\$ - 5		105.42	\$ 47.64	\$ 5,022.00	\$ 6,860.00	\$ 11,882.00	\$ 11,882.00
Concrete Template Forms (Sonotube)	98	CY EA	\$ - \$	16,853.00	123.13	\$ 47.64 \$ 47.64	\$ 5,866.00	\$ 8,012.00 \$ 29,152.00	\$ 30,731.00 \$ 55,632.00	\$ 30,731.00 \$ 55,632.00
Forms (Exterior) Blocking	2 2	EA EA	\$ - \$	5,350.00	56	\$ 47.64 \$ 47.64	\$ 2,668.00 \$ 2,001.00	\$ 3,644.00	\$ 11,662.00 \$ 5,804.00	\$ 11,662.00 \$ 5,804.00
Survey Concrete Pump	1	LS LS	\$ 7,800.00 \$ \$ 3,745.00 \$	-	0	#DIV/0! #DIV/0!	\$ - \$ -	\$ - \$ -	\$ 7,800.00 \$ 3,745.00	\$ 7,800.00 \$ 3,745.00
Haul Old Template Debris Drill and Place Grout	1	LS	\$ - \$			\$ 47.62	\$ 1,000.00	\$ 1,366.00	\$ 3,166.00	\$ 3,166.00
Drill and Place Grout Grout Rebar	64 480 168438	EA CY LBS	\$ - \$ \$ - \$ \$ 86,510.00 \$	74,472.00	1872 0	\$ 44.54 #DIV/0! #DIV/0!	\$ 83,387.00 \$ -	\$ 215,883.00 \$ -	\$ 299,270.00 \$ 74,472.00 \$ 176,624.00	\$ 299,270.00 \$ 74,472.00 \$ 176,624.00
Spoils Disposal Concrete Pump	375 384	CA	\$ 6,328.00 \$ \$ 6,019.00 \$		0	#DIV/0! #DIV/0! #DIV/0!	\$ - \$ -	\$ - \$ -	\$ 176,624.00 \$ 6,328.00 \$ 6,019.00	\$ 1/6,624.00 \$ 6,328.00 \$ 6,019.00
Mass Excavation and Tremie Excavation	698	CY	\$ - \$		460.33	\$ 44.19	\$ 20,340.00	\$ 26,209.00	\$ 46,549.00	\$ 46,549.00
Excavation (Last 8') Clean Sides	232	CY EA	\$ - \$	-	369.2 104	\$ 44.18 \$ 44.18	\$ 16,313.00 \$ 4,595.00	\$ 21,021.00 \$ 5,921.00	\$ 37,334.00 \$ 10,516.00	\$ 37,334.00 \$ 10,516.00
Tremie Pour Tremie Rebar/Bottom Slab	145 25375	CY LBS	\$ - \$ \$ 12,688.00 \$	13,576.00	200 0	\$ 44.19 #DIV/0!	\$ 8,837.00	\$ 11,387.00 \$ -	\$ 39,618.00 \$ 26,264.00	\$ 39,618.00 \$ 26,264.00
Dewater and Seal Leveling Course Trucking	24	EA CY	\$ - \$ \$ - \$ \$ 8.437.00	3,210.00		\$ 44.19 \$ 47.64 #DIV/0!		\$ 4,555.00 \$ 3,644.00	\$ 8,090.00 \$ 9,522.00	\$ 8,090.00 \$ 9,522.00
Trucking Tremie Pump and Leveling Course Poly Tube Injection / Seal	1 2	LS LS EA	\$ 8,437.00 \$ \$ 2,140.00 \$ \$ 5,350.00 \$	-	0	#DIV/0! #DIV/0! #DIV/0!	\$ - \$ - \$ -	\$ - \$ - \$ -	\$ 8,437.00 \$ 2,140.00 \$ 5,350.00	\$ 8,437.00 \$ 2,140.00 \$ 5,350.00
Mechanical Work Baffle Skimmer	2	EA	\$ 5,350.00 \$	53,500.00	80	\$ 48.64	\$ 3,891.00	\$ 4,680.00	\$ 62,071.00	\$ 62,071.00
60 HP Flygt Pump 18" DIP Discharge	2 500	EA LF	\$ - \$	699,266.00 38,988.00	720 166.66	\$ 46.66 \$ 48.64	\$ 33,595.00 \$ 8,106.00	\$ 35,100.00 \$ 9,749.00	\$ 767,961.00 \$ 56,843.00	\$ 767,961.00 \$ 56,843.00
18" Check Valve NBG Sets / Flanges	6 24	EA EA	\$ - \$	79,608.00 111,194.00	200 400	\$ 48.64 \$ 48.64	\$ 9,728.00 \$ 19,456.00	\$ 11,700.00 \$ 23,400.00	\$ 101,036.00 \$ 154,050.00	\$ 101,036.00 \$ 154,050.00
24" x 12" Cross w/ Cap 24" Well 45" x 100" HS 20 Hatch & Frame	700	LF EA	\$ 525,000.00	226,086.00	125		\$ 6,080.00	\$ 8,775.00 \$ 7,312.00 \$ 3,935.00	\$ 28,911.00 \$ 764,478.00	\$ 28,911.00 \$ 764,478.00 \$ 5,27.00
48" x 100" HS 20 Hatch & Frame 75" x 86" HS 20 Hatch & Frame 56" x 112" HS 20 Hatch & Frame	2 2	EA EA	\$ - \$ \$ - \$ \$ - \$	-	30	\$ 48.64 \$ 48.63 \$ 48.64	\$ 2,432.00 \$ 1,459.00 \$ 5,837.00	\$ 2,925.00 \$ 1,755.00 \$ 7,020.00	\$ 5,357.00 \$ 3,214.00 \$ 12,857.00	\$ 5,357.00 \$ 3,214.00 \$ 12,857.00
55" x 51" HS 20 Hatch & Frame 36" x 60" HS 20 Hatch & Frame	3 2	EA EA	\$ - 9		75	\$ 48.64 \$ 48.64	\$ 3,648.00	\$ 4,387.00 \$ 2,925.00	\$ 8,035.00 \$ 5,357.00	\$ 8,035.00 \$ 5,357.00
11"-8" x 8' x 7' Vault Concrete Cover (15' Dia.)	3 2	EA EA	\$ - \$ \$ - \$	101,115.00 38,520.00	600 45	\$ 48.64 \$ 48.64	\$ 29,184.00 \$ 2,189.00	\$ 35,100.00 \$ 2,632.00	\$ 165,399.00 \$ 43,341.00	\$ 165,399.00 \$ 43,341.00
Platform (8.44 NAVD) Landscaping Screening	1	EA LS	\$ 5,000.00 \$ \$ 15,000.00 \$		40	#DIV/0!	\$ -	\$ 2,340.00	\$ 9,286.00 \$ 15,000.00	\$ 9,286.00 \$ 15,000.00
Grout / Seal / Coatings Start up / Commissioning	2 2	LS EA	\$ - 9	1,070.00	30	\$ 48.64	\$ 3,648.00 \$ 1,460.00	\$ 4,387.00 \$ 1,755.00 \$ 3,340.00	\$ 24,085.00 \$ 4,285.00	\$ 24,085.00 \$ 4,285.00
Warranty Allowance 14th Ct. & Bay Rd. Set Up 24" Well Credit	1 2 1	LS EA LS	\$ - \$ \$ - \$ \$ (281,750.00) \$			\$ 48.65 \$ 48.64	\$ 1,946.00 \$ 47,912.00	\$ 2,340.00 \$ 57,622.00	\$ 14,986.00 \$ 105,534.00 \$ (281,750.00)	\$ 14,986.00 \$ 105,534.00 \$ (281,750.00)
24" Well Credit Electrical / I&C Control Pannels w/ Floats	2	LS EA	\$ (281,750.00) \$ \$ 422,493.00 \$				\$ -	\$ -	\$ (281,750.00) \$ 422,493.00	\$ (281,750.00) \$ 422,493.00
Ductbank - Civil Rock Anchors	920	LF	\$ 422,493.00 \$		1380	\$ 46.66	\$ 64,391.00	\$ 67,274.00	\$ 422,493.00	\$ 422,493.00
Rock Anchors	8	EA	\$	299,600.00					\$ 299,600.00	\$ 299,600.00
24" Interconnecting Pipping Sheet Plating - Shoring	110	LBS	\$ 1,000.00 \$			\$ 47.64			\$ 97,154.00	\$ 97,154.00
Dewatering Excavation Extra (Down & Install	300	LS CY	\$ - \$ \$ 60,000.00 \$	5,350.00	300	\$ 51.61 \$ 46.66	\$ 13,998.00	\$ 8,904.00 \$ 13,175.00 \$ 11,550.00	\$ 31,429.00 \$ 92,523.00	\$ 31,429.00 \$ 92,523.00
Set up/Down & Install Seal, Grout & Backfill	1 360	LS TN	\$ - \$ \$ - \$		500 100			\$ 11,550.00 \$ 2,950.00	\$ 35,870.00 \$ 17,979.00	\$ 35,870.00 \$ 17,979.00
Utility Relocation & Removals Utility Relocation & Removals	1	LS	\$ - 5	7,000.00	2450	\$ 47.64	\$ 116,723.00	\$ 83,885.00	\$ 207,608.00	\$ 207,608.00
			\$ 1,615,819.00	4,225,229.00	36568.73		\$ 1,868,091.00	\$ 2,750,633.00	\$ 10,459,772.00 Subcontractor Mark	
									Marke	
									Bond & Insuran	ce \$ 313,793.16 AL \$ 11,738,751.41



	Bid:	
		1.00 LS
	5,580	196,580
Mh: Shifts: Mh/Un: Un/Sh: 196,58		196,580.00
10.2 General Conditions 1.00 LS F6319A 50 10.00 208,275 229 Mh: 600.00 Shifts: Mh/Un: 600.0000 Un/Sh: 208,275.10 229,65	9,650 72,000 50.00 72,000.00	509,925 509,925.10
MII: 000.00 SIIIIS: MII/OII: 000.0000 OII/SII: 208,2/3.10 229,03	72,000.00	309,923.10
**************************************	5,230 72,000 30.00 72,000.00	706,505 706,505.10
*** 31 Template Takeoff: 1.00 LS	Bid:	1.00 LS
31.01 Excavate and Haul 170.00 CY F6319A 50 10.00 6,670	9,110	835 16,615
Mh: 140.00 Shifts: 2.0 Mh/Un: 0.8235 Un/Sh: 85.0000 39.23	53.59	4.91 97.73
(31.02 Concrete Template (5% Waste 115.00 CY F6319A 50 10.00 7,226 16,082	9,871	33,179
Mh: 151.67 Shifts: 2.2 Mh/Un: 1.3189 Un/Sh: 53.0933 62.83 139.84	85.83	288.51
	7,790 54,660	102,469
	54.91 455.50	853.91
· · · · · · · · · · · · · · · · · · ·	5,433 9,110	22,213
	36.57 1,821.99	4,442.54
31.05 Blocking 5.00 EA F6319A 50 10.00 1,667	2,278	3,945
Mh: 35.00 Shifts: 0.5 Mh/Un: 7.0000 Un/Sh: 10.0000 333.50 31.06 Survey 5.00 EA F6319A 50 10.00	455.50	789.00
·	9,750 50.00	9,750 1,950.00
Min: Shifts: Min/On: On/Sh: 1,92 31.07 Pump Concrete 5.00 EA F6319A 50 10.00	3,574	3,574
Mh: Shifts: Mh/Un: Un/Sh:	714.76	714.76
	5,722 4,555	14,612
•	14.35 911.00	2,922.34
**************************************	93,157 94.19 93,156.62	835 206,355 835.00 206,355.45
*** 32 Drill and PLace Grout Takeoff: 1.00 LS	Bid:	1.00 LS
32.01 Drill and Place Grout 120.00 EA F6319A 50 10.00 160,359	415,160	575,519
Mh: 3,600.00 Shifts: 40.0 Mh/Un: 30.0000 Un/Sh: 3.0000 1,336.33	3,459.67	4,796.00
32.02 Grout 750.00 CY F6319A 50 10.00 116,595		116,595
Mh: Shifts: Mh/Un: Un/Sh: 155.46		155.46
32.03 Rebar 131,250.00 LBS F6319A 50 10.00 63,324		39,454 102,778
Mh: Shifts: Mh/Un: Un/Sh: 0.48 32.04 Spoils Disposal 750.00 CY F6319A 50 10.00) 454	0.30 0.78
	3,454 11.27	8,454 11.27
32.05 Concrete Pump 750.00 CY F6319A 50 10.00	10,721	10,721
Mh: Shifts: Mh/Un: Un/Sh:	14.30	14.30
Mh: 3,600.00 Mh/Un: 3,600.0000 160,359.42 179,919.39 8,45		39,454 814,068 39,453.75 814,067.50
*** 33 Mass Excavation and Tremie Takeoff: 1.00 LS	Bid:	1.00 LS
33.01 Excavation 740.00 CY F6319A 50 10.00 17,674	22,775	40,449
Mh: 400.00 Shifts: 5.0 Mh/Un: 0.5405 Un/Sh: 148.0000 23.88 33.02 Excavation (Last 8') 110.00 CY F6319A 50 10.00 7,659	30.78	54.66
33.02 Excavation (Last 8') 110.00 CY F6319A 50 10.00 7,659 Mh: 173.34 Shifts: 2.2 Mh/Un: 1.5758 Un/Sh: 50.7849 69.63	9,871 89.73	17,530 159.36
33.03 Clean Sides 5.00 EA F6319A 50 10.00 5,302	6,832	12,135
Mh: 120.00 Shifts: 1.5 Mh/Un: 24.0000 Un/Sh: 3.3333 1,060.44	1,366.50	2,426.94
33.04 Tremie Pour 250.00 CY F6319A 50 10.00 22,976 33,504	29,607	86,088
Mh: 520.00 Shifts: 6.5 Mh/Un: 2.0800 Un/Sh: 38.4615 91.90 134.02	118.43	344.35
33.05 Tremie Rebar 43,750.00 LBS F6319A 50 10.00 23,453		13,151 36,604
Mh: Shifts: Mh/Un: Un/Sh: 0.54		0.30 0.84
33.06 Dewater and Seal 5.00 EA F6319A 50 10.00 8,837	11,387	20,224
Mh: 200.00 Shifts: 2.5 Mh/Un: 40.0000 Un/Sh: 2.0000 1,767.40	2,277.49	4,044.90
	12,904	29,054
33.07 Leveling Course 50.00 CY F6319A 50 10.00 9,449 6,701		#O1 00
Mh: 198.33 Shifts: 2.8 Mh/Un: 3.9666 Un/Sh: 17.6491 188.98 134.02	258.09	581.08
Mh: 198.33 Shifts: 2.8 Mh/Un: 3.9666 Un/Sh: 17.6491 188.98 134.02 33.08 Trucking 5.00 LS F6319A 50 10.00 9	9,582	9,582
Mh: 198.33 Shifts: 2.8 Mh/Un: 3.9666 Un/Sh: 17.6491 188.98 134.02 33.08 Trucking 5.00 LS F6319A 50 10.00 50 Mh: Shifts: Mh/Un: Un/Sh: 1,91	9,582 16.49	9,582 1,916.49
Mh: 198.33 Shifts: 2.8 Mh/Un: 3.9666 Un/Sh: 17.6491 188.98 134.02 33.08 Trucking 5.00 LS F6319A 50 10.00 9	9,582	9,582



						•			•					
Biditem Activity	Description			Quantity	Unit	Caleno WC		rs/Shift	Labor	Perm Material	Constr Matl/Exp	Equip- Ment	Sub- Contract	Total
33.10 Mh:	Poly Tube I	Injection /	/ Seal	5.00 Mh/Un:	EA	F6319A Un/Sh:		10.00		8,935 1,786.90				8,935 1,786.90
									71 00 7	50.500	0.500	06.504	10.151	262.010
	**** Biditem/C 1,611.67	ategory Mh/Un:	33 1,61	***** 11.6700	****				71,897 71,897.42	72,593 72,592.82	9,582 9,582.46	96,594 96,593.58	13,151	263,818 263,817.53
*** 51			Te	emplate					Takeoff:	1.00	LS	Bid:	1.	.00 LS
51.01	Excavate as	nd Haul		170.00	CY	F6319A	50	10.00	6,670			9,110	835	16,615
Mh:		Shifts:	2.0	Mh/Un:		Un/Sh:		35.0000	39.23			53.59	4.91	97.73
51.02	Concrete To					F6319A		10.00	7,226	16,082		9,871		33,179
Mh:		Shifts:	2.2	Mh/Un:		Un/Sh:		53.0933	62.83	139.84	7.7 00	85.83		288.51
51.03	Forms - Son		12.0	120.00		F6319A			40,019		7,790	54,660		102,469
Mh:			12.0	Mh/Un:		Un/Sh:		10.0000	333.49		64.91	455.50		853.91
51.04 Mh:	Forms - Ext	terior Shifts:	2.0	5.00 Mh/Un:		F6319A Un/Sh:		10.00 2.5000	6,670 1,333.98		6,433 1,286.57	9,110 1,821.99		22,213 4,442.54
51.05	Blocking	Sillits:	2.0	5.00		F6319A		10.00	1,333.98		1,280.37	2,278		3,945
Mh:	U	Shifts:	0.5	Mh/Un:		Un/Sh:		10.00	333.50			455.50		789.00
51.06	Survey	JIII 1163.	0.5	5.00		F6319A		10.00	333.30		9,750	433.30		9,750
Mh:	•	Shifts:		Mh/Un:	LII	Un/Sh:		10.00			1,950.00			1,950.00
51.07	Pump Conc			5.00	EA	F6319A		10.00			1,550.00	3,574		3,574
Mh:		Shifts:		Mh/Un:	Lit	Un/Sh:		10.00				714.76		714.76
51.08	Haul Old T		Debris	5.00	EA	F6319A		10.00	3,335		6,722	4,555		14,612
Mh:		Shifts:	1.0	Mh/Un:		Un/Sh:		5.0000	666.99		1,344.35	911.00		2,922.34
*****	****Biditem/C	otogory	51	****	****				65,588	16,082	30,694	93,157	835	206,355
		Mh/Un:		76.6700						16,082.10	30,694.19	93,156.62		206,355.4
*** 52			D	rill and PLac	e Grout				Takeoff:	1.00	LS	Bid:	1.	.00 LS
52.01	Drill and Pl	lace Grout		120.00		F6319A	50	10.00	212,031			548,935		760,966
Mh: 4	4,760.00	Shifts: 5	52.9	Mh/Un:	39.6667	Un/Sh:		2.2689	1,766.92			4,574.46		6,341.38
52.02	Grout			810.00	CY	F6319A	50	10.00		135,725				135,725
Mh:	S	Shifts:		Mh/Un:		Un/Sh:				167.56				167.56
52.03	Rebar			141,750.00	LBS	F6319A	50	10.00		76,006			42,610	118,616
Mh:	5	Shifts:		Mh/Un:		Un/Sh:				0.54			0.30	0.84
52.04	Spoils Disp			750.00	CY	F6319A		10.00			9,394			9,394
Mh:		Shifts:		Mh/Un:		Un/Sh:					12.53			12.53
52.05	Concrete Pr			810.00	CY	F6319A		10.00				10,721		10,721
Mh:	S	Shifts:		Mh/Un:		Un/Sh:						13.24		13.24
	****Biditem/C	- •	52	*****	****				212,031		9,394	559,656	,	1,035,422
Mh: 4	4,760.00	Mh/Un:	4,76	50.0000					212,030.85	211,731.01	9,393.75	559,656.35	42,610.05	1,035,422.01
*** 53			M	ass Excavati					Takeoff:	1.00	LS	Bid:	1.	.00 LS
53.01	Excavation		4.7	810.00		F6319A			16,437			21,181		37,618
Mh:		Shifts:	4.7	Mh/Un:		Un/Sh:			20.29			26.15		46.44
53.02	Excavation	` /	1.6	235.00		F6319A		10.00	16,362			21,085		37,447
Mh:		Shifts:	4.6	Mh/Un:		Un/Sh:		50.7779	69.63			89.72		159.35
53.03 Mb.	Clean Sides	s Shifts:	1.0	5.00 Mb/Un:		F6319A			6,480			8,349		14,829
Mh: 53.04	146.66 S Tremie Pou		1.8	Mh/Un: 160.00		Un/Sh: F6319A		2.7278	1,296.01 11,194	24,874		1,669.86 14,426		2,965.86 50,493
Mh:		ir Shifts:	3.2	Mh/Un:		Un/Sh:		50.5370	69.96	155.46		90.16		315.58
53.05	Tremie Reb		J. ك	28,000.00		F6319A		10.00	09.90	15,010		90.10	8,417	23,427
Mh:		Shifts:		28,000.00 Mh/Un:	LDS	Un/Sh:		10.00		0.54			0.30	0.84
	Dewater an			5.00	EA	F6319A		10.00	7,659	0.54		9,871	0.50	17,530
	Dewater all	Shifts:	2.2	Mh/Un:		Un/Sh:		2.3084	1,531.84			1,974.13		3,505.97
53.06	173.34			. TIII UII.					5,558	4,691		7,593		17,842
53.06 Mh:				35.00	CY	F6319A								1 / , O T2
53.06 Mh: 53.07	Leveling C	ourse		35.00 Mh/Un:		F6319A Un/Sh:				,				509.78
53.06 Mh: 53.07 Mh:	Leveling C		1.7	Mh/Un:	3.3334	Un/Sh:	2	21.0084	158.81	134.02	9,582	216.95		
53.06 Mh: 53.07	Leveling Co 116.67 S Trucking	ourse			3.3334	Un/Sh: F6319A	50	21.0084		,	9,582 1,916.49			9,582
53.06 Mh: 53.07 Mh: 53.08	Leveling Control of Strucking	ourse Shifts: Shifts:	1.7	Mh/Un: 5.00 Mh/Un:	3.3334 LS	Un/Sh: F6319A Un/Sh:	50	21.0084		,	9,582 1,916.49			9,582 1,916.49
53.06 Mh: 53.07 Mh: 53.08 Mh:	Leveling Control 116.67 Strucking Strucking Strucking Strucking Strucking Pun	ourse Shifts: Shifts:	1.7	Mh/Un: 5.00 Mh/Un:	3.3334 LS	Un/Sh: F6319A	50	10.00		,		216.95		9,582 1,916.49 3,216
53.06 Mh: 53.07 Mh: 53.08 Mh: 53.09	Leveling Control 116.67 Strucking Strucking Strucking Strucking Strucking Pun	ourse Shifts: Shifts: np and Le Shifts:	1.7 evel Co	Mh/Un: 5.00 Mh/Un: urs 5.00	3.3334 LS LS	Un/Sh: F6319A Un/Sh: F6319A	50	10.00		,		216.95 3,216	8,350	509.78 9,582 1,916.49 3,216 643.28 8,350



Biditem Activity	Description	Quantity	Unit	Calendar WC H	Irs/Shift	Labor	Perm Material	Constr Matl/Exp	Equip- Ment	Sub- Contract	Total
	*****Biditem/Category 5 1,432.32 Mh/Un: 1,	3 ***** 432.3200	****			63,691 63,690.69	44,574 44,574.22	9,582 9,582.46	85,721 85,720.84	16,767 16,766.80	220,335 220,335.01
*** 54		Mechanical W	ork			Takeoff:	1.00	LS	Bid:	1.	00 LS
54.01	Baffle Skimmer	5.00		F6319A 50	10.00	4,864	53,500		5,850		64,214
Mh:	100.00 Shifts: 2.0	Mh/Un:	20.0000	Un/Sh:	2.5000	972.81	10,700.00		1,169.99		12,842.80
54.05	25 HP Flygt Pump	5.00		F6319A 50	10.00	27,996			29,250		751,243
Mh: 54.06	600.00 Shifts: 10.0 12" DIP Discharge	Mh/Un: 550.00		Un/Sh: F6319A 50	0.5000	5,599.23	138,799.33 17,770		5,849.94 8,579	1:	50,248.50 33,482
Mh:	146.66 Shifts: 2.9	Mh/Un:	0.2667		87.5213	12.97	32.31		15.60		60.88
54.08	12" Check Valve	5.00		F6319A 50	10.00	2,189	31,828		2,632		36,649
Mh:	45.00 Shifts: 0.9	Mh/Un:		Un/Sh:	5.5556	437.76	6,365.55		526.49		7,329.81
54.09	NBG Sets / Flanges	100.00		F6319A 50	10.00	14,592	46,331		17,550		78,473
Mh: 54.10	300.00 Shifts: 6.0 24 x 12 Cross w/Cap	Mh/Un: 5.00	3.0000	Un/Sh: F6319A 50	16.6667	145.92 1,946	463.31 11,140		175.50 2,340		784.73 15,425
Mh:	40.00 Shifts: 0.8	Mh/Un:		Un/Sh:	6.2500	389.12			468.00		3,085.07
54.11	24" Well	500.00		F6319A 50		1,216	9,095		1,462	375,000	386,774
Mh:	25.00 Shifts: 0.5	Mh/Un:	0.0500	Un/Sh: 1,0	00.000	2.43	18.19		2.92	750.00	773.55
54.12	36"x 78" HS 20 Hatch & 1			F6319A 50	10.00	1,216			1,462		2,679
Mh:	25.00 Shifts: 0.5	Mh/Un:	5.0000		10.0000	243.21			292.50		535.70
54.13 Mh:	52"x 60" HS 20 Hatch & 1 25.00 Shifts: 0.5	rram 5.00 Mh/Un:	5 0000	F6319A 50 Un/Sh:	10.00	1,216 243.21			1,462 292.50		2,679 535.70
54.14	56"x 112" HS 20 Hatch &			F6319A 50		1,946			2,340		4,286
Mh:	40.00 Shifts: 0.8	Mh/Un:	8.0000	Un/Sh:	6.2500	389.12			468.00		857.12
54.15	11'-8" x 8' x 7' Vault	5.00		F6319A 50	10.00	12,160	48,150		14,625		74,935
Mh:	250.00 Shifts: 5.0	Mh/Un:		Un/Sh:	1.0000	2,432.02	9,630.00		2,924.97		14,986.99
55.01 Mh:	Concrete Cover (15' Dia.) 60.00 Shifts: 1.2	5.00 Mh/Un:		F6319A 50 Un/Sh:	10.00	2,918	56,175 11,235.00		3,510 701.99		62,603 12,520.68
55.02	Platform (8.44 NAVD)	5.00		F6319A 50	10.00	1,459	11,233.00		1,755	40.000	43,214
Mh:	30.00 Shifts: 0.6	Mh/Un:	6.0000		8.3333	291.84			351.00	8,000.00	,
55.03	Landscaping Screening	5.00	LS	F6319A 50	10.00					37,500	37,500
Mh:	Shifts:	Mh/Un:		Un/Sh:						7,500.00	
55.04	Grout / Seal / Coatings	5.00		F6319A 50	10.00	10,944	26,750		13,162		50,856
Mh: 55.05	225.00 Shifts: 4.5 Start-up / Commissioning	Mh/Un: 5.00		Un/Sh: F6319A 50	1.1111	2,188.82 2,432	5,350.00 1,605		2,632.47 2,925		10,171.30 6,962
Mh:	50.00 Shifts: 1.0	Mh/Un:	10.0000		5.0000	486.40	321.00		584.99		1,392.40
55.06	Warranty Allowance	5.00	EA	F6319A 50	10.00	4,864	10,700		5,850		21,414
Mh:	100.00 Shifts: 2.0	Mh/Un:		Un/Sh:	2.5000	972.81	2,140.00		1,169.99		4,282.80
55.07	24" Well Credit	-1.00 Mh/Un:	LS	F6319A 50	10.00					-201,250 201,250.00	-201,250
Mh:	Shifts:			Un/Sh:							
	******Biditem/Category 5 2,061.66 Mh/Un: 2,	4 ***** 061.6600	****				1,007,040 1,007,040.16			251,250 251,250.00	
*** 55	1	Electrical / I&	·C			Takeoff:	1.00	LS	Bid:	1.	00 LS
55.1	Control Pannels w/ Floats			F6319A 50	10.00						170,000
Mh:	Shifts:	Mh/Un:		Un/Sh:						34,000.00	
55.2 Mh:	Ductbank - Civil 2,227.50 Shifts: 37.1	1,650.00 Mh/Un:	LF 1.3500	F6319A 50 Un/Sh:	10.00 44.4444	103,936 62.99	26,322 15.95		108,590 65.81		238,847
										170 000	
	******Biditem/Category 5 2,227.50 Mh/Un: 2,	5 ***** 227.5000				103,936 103,935.71	26,322 26,322.00		108,590 108,589.52	170,000 170,000.00	408,847 408,847.23
*** 71		Femplate				Takeoff:	1.00	LS	Bid:	1.	00 LS
71.01 Mb.	Excavate and Haul	98.00 Mb/Line		F6319A 50	10.00	4,002			5,466		9,468
Mh: 71.02	84.00 Shifts: 1.2 Concrete Template (5% W	Mh/Un: /aste 78.00		Un/Sh: F6319A 50	81.6667	40.84 4,669	13,375		55.78 6,377		96.61 24,421
Mh:	98.00 Shifts: 1.4	Mh/Un:			55.7143	59.86	171.47		81.76		313.09
71.03	Forms - Sonotube	64.00		F6319A 50		21,344		4,109	29,152		54,604
Mh:	448.00 Shifts: 6.4	Mh/Un:			10.0000	333.50		64.20	455.50		853.19
71.04	Forms - Exterior	2.00		F6319A 50		2,668		5,350	3,644		11,662
Mh: 71.05	56.00 Shifts: 0.8 Blocking	Mh/Un: 2.00		Un/Sh: F6319A 50	2.5000	1,333.98 2,001	1,070	2,675.00	1,822.00 2,733		5,830.97 5,804
Mh:	42.00 Shifts: 0.6	Mh/Un:		Un/Sh:	3.3333	1,000.48	535.00		1,366.50		2,901.98
.,,,,,	.2.00 511116. 0.0	111111 (111.	21.0000	OH JII.	5.5555	1,00010	233.00		1,500.50		-,,,,,,,



						Activity	UIII	rices	ummar y					
Biditem Activity	Description			Quantity	Unit	Calen WC		rs/Shift	Labor	Perm Material	Constr Matl/Exp	Equip- Ment	Sub- Contract	Total
71.06	Survey			2.00	EA	F6319A		10.00			7,800			7,800
Mh:		Shifts:		Mh/Un:		Un/Sh:					3,900.00			3,900.00
71.07	Pump Co	ncrete			EA	F6319A		10.00				2,333		2,333
Mh:		Shifts:		Mh/Un:		Un/Sh:						1,166.30		1,166.30
71.08	Haul Old	Template	Debris	2.00		F6319A		10.00	1,000		800	1,367		3,167
Mh:	21.00	Shifts:	0.3	Mh/Un:	10.5000	Un/Sh:		6.6667	500.25		400.00	683.25		1,583.50
	*****Biditem/		71		****				35,684	14,445	18,059	51,071		119,259
Mh:	749.00	Mh/Un:	7.	49.0000					35,683.93	14,445.00	18,058.80	51,070.89	1	19,258.62
*** 72			D	rill and Plac	e Grout				Takeoff:	1.00	LS	Bid:	1.	00 LS
72.01	Drill and	Place Gro	ut	64.00	EA	F6319A	50	10.00	85,391			221,073		306,464
Mh:	1,917.00	Shifts:	21.3	Mh/Un:	29.9531	Un/Sh:		3.0047	1,334.24			3,454.26		4,788.50
72.02	Grout			384.00	CY	F6319A	50	10.00		59,578				59,578
Mh:		Shifts:		Mh/Un:		Un/Sh:				155.15				155.15
72.03	Rebar			134,750.00	LBS	F6319A		10.00		72,091			69,127	141,218
Mh:		Shifts:		Mh/Un:		Un/Sh:				0.54			0.51	1.05
72.04	Spoils Di			300.00	CY	F6319A		10.00			5,062			5,062
Mh:		Shifts:		Mh/Un:		Un/Sh:					16.87			16.87
72.05	Concrete			384.00	CY	F6319A		10.00				4,815		4,815
Mh:		Shifts:		Mh/Un:		Un/Sh:						12.54		12.54
*****	****Biditem/	Category	72	****	****				85,391	131,669	5,062	225,888	69.127	517,137
	1,917.00	Mh/Un:	. –	17.0000					85,391.36	- ,	5,062.00	225,887.70	,	,
*** 73			M	lass Excavat		remie			Takeoff:	1.00	LS	Bid:	1.	00 LS
73.01	Excavation			558.00		F6319A		10.00	16,260			20,953		37,213
Mh:	368.00	Shifts:	4.6	Mh/Un:	0.6595	Un/Sh:	12	21.3043	29.14			37.55		66.69
73.02		on (Last 8')		186.00		F6319A		10.00	13,079			16,853		29,932
Mh:	296.00	Shifts:	3.7	Mh/Un:		Un/Sh:		50.2703	70.32			90.61		160.93
73.03	Clean Sid			2.00		F6319A		10.00	5,656			7,288		12,944
Mh:	128.00	Shifts:	1.6	Mh/Un:		Un/Sh:		1.2500	2,827.84			3,643.99		6,471.82
73.04	Tremie P		2.5	145.00		F6319A		10.00	8,837	15,515		11,387		35,739
Mh:	200.00	Shifts:	2.5	Mh/Un:		Un/Sh:		58.0000	60.94	107.00		78.53	10.150	246.48
73.05	Tremie R			20,300.00	LBS	F6319A		10.00		10,861			10,150	21,011
Mh:	D (Shifts:		Mh/Un:	F.4	Un/Sh:		10.00	2.525	0.54		1555	0.50	1.04
73.06	Dewater		1.0		EA	F6319A		10.00	3,535			4,555		8,090
Mh:	80.00	Shifts:	1.0	Mh/Un:	40.0000			2.0000	1,767.41	2 210		2,277.49		4,044.90
73.07	Leveling		0.0	24.00		F6319A		10.00	2,668	3,210		3,644		9,522
Mh:	56.00	Shifts:	0.8	Mh/Un:		Un/Sh:		30.0000	111.16	133.75	10.547	151.83		396.75
73.08 Mh:	Trucking	Shifts:		2.00 Mh/Un:	LS	F6319A Un/Sh:		10.00			10,547 5,273.50			10,547 5,273.50
73.09	Tramia D	ump and L	aval Co		ΕΛ	F6319A		10.00			3,273.30	2,140		2,140
Mh:	Trenne 1	Shifts:	ever co	Mh/Un:	LA	Un/Sh:		10.00				1,070.00		1,070.00
73.10	Poly Tub	e Injection	/ Seal		EA	F6319A		10.00		5,350		1,070.00		5,350
Mh:	Toly Tuo	Shifts:	7 Scar	Mh/Un:	LII	Un/Sh:		10.00		2,675.00				2,675.00
	6444 4D: 1:4	C 4	5 2	****	مات مات مات مات مات				50.024	24.026	10.547	((921	10.150	172 400
	***** Biditem/ 1,128.00	Mh/Un:	73 1,11	28.0000	****				50,034 50,034.30	34,936 34,935.50	10,547 10,547.00	66,821 66,820.75	10,150	172,488 172,487.55
*** 91			T	emplate					Takeoff:	1.00	LS	Bid:	1.	00 LS
91.01	Excavate	and Haul		123.00	CY	F6319A	50	10.00	5,022			6,860		11,882
Mh:	105.42	Shifts:	1.5	Mh/Un:	0.8571	Un/Sh:		31.6733	40.83			55.77		96.60
91.02	Concrete	Template	(5% Wa	ste 98.00	CY	F6319A	50	10.00	5,866	16,853		8,012		30,731
Mh:	123.13	Shifts:	1.8	Mh/Un:	1.2564	Un/Sh:	4	55.7452	59.86	171.96		81.76		313.58
91.03	Forms - S	Sonotube		64.00		F6319A		10.00	21,344		5,136	29,152		55,632
Mh:	448.00	Shifts:	6.4	Mh/Un:	7.0000	Un/Sh:	1	10.0000	333.50		80.25	455.50		869.24
91.04	Forms - I	Exterior		2.00	EA	F6319A	50	10.00	2,668		5,350	3,644		11,662
Mh:	56.00	Shifts:	0.8	Mh/Un:	28.0000	Un/Sh:		2.5000	1,333.98		2,675.00	1,822.00		5,830.97
91.05	Blocking			2.00		F6319A		10.00	2,001	1,070		2,733		5,804
Mh:	42.00	Shifts:	0.6	Mh/Un:		Un/Sh:		3.3333	1,000.48	535.00		1,366.50		2,901.98
91.06	Survey			2.00	EA	F6319A		10.00			7,800			7,800
Mh:		Shifts:		Mh/Un:		Un/Sh:					3,900.00			3,900.00
91.07	Pump Co	ncrete		2.00	EA	F6319A	50	10.00				3,745		3,745



Strice Mile Biditem Activity	Description	Quantity	Unit	Calend WC	lar Hrs/Shift	Labor	Perm Material	Constr Matl/Exp	Equip- Ment	Sub- Contract	Total	
Marth Mart	Mh:	Shifts:	Mh/Un:		Un/Sh:					1,872.50		1,872.50
Part		*										
Part Part	Mh:	21.00 Shifts: 0.3	Mh/Un:	10.5000	Un/Sh:	6.6667	500.25		400.00	683.25		1,583.50
Part Part	****	*****Biditem/Category	91 *****	****			37,902	17,923	19,086	55,512		130,423
			795.5500				37,901.69	17,922.50	19,086.00	55,512.35	1:	30,422.54
Mile 1872 00 Shifts 20.8 Mile 1872 00 Shifts 20.8 Mile 1874 20 Mile	*** 92		Drill and PLa	ce Grout			Takeoff:	1.00	LS	Bid:	1.	00 LS
										,		
Part Part		,					1,302.92	7.4.470		3,373.18		
Part				CY		50 10.00						
Mile				LBS		50 10.00					86.510	
Part				LDS		10.00					,	•
Mile Shiris Shi	92.04	Spoils Disposal	375.00) CY	F6319A	50 10.00			6,328			6,328
Mile Shifts Mh/Un									16.87			
Part		1) CY		50 10.00						
Mile 1,872,00	Mh:	Shifts:	Mh/Un:		Un/Sh:					15.67		15.67
				****						,	,	,-
	Mh:	1,872.00 Mh/Un:	1,872.0000				83,386.89	164,586.06	6,327.50	221,901.95	86,509.50	562,711.90
	*** 93		Mass Excavat	ion and T	remie		Takeoff:	1.00	LS	Bid:	1.	00 LS
	93.01	Excavation				50 10.00	20,340			26,209		
Milt 104.00 Shiffs: 4.6 Mh/Ur: 1.5914 Un/Sh: 50.2709 70.32 9.061 160.92		460.33 Shifts: 5.8	Mh/Un:	0.6595			29.14			37.55		66.69
93.03		. ,										
Mile 104.00 Shifts: 1.3 Mh/Un: 52.0000 Un/Sh: 1.5385 2,297.62 2,960.74 5.288.36 93.04 Tremie Pour 145.00 CY F6319A 50 10.00 8.837 19.394 11.387 39.618 Mh: 200.00 Shifts: 2.5 Mh/Un: 1.3793 Un/Sh: 58.0000 60.94 133.75 78.83 273.23 93.05 Tremie Rebar 25,375.00 LBS F6319A 50 10.00 13,576 12.688 26.263 Mh: Shifts: Mh/Un: Un/Sh: 0.54 0.50 1.04 93.06 Dewater and Seal 2.00 EA F6319A 50 10.00 3.535 4.555 8.090 Mh: 80.00 Shifts: 1.0 Mh/Un: 40.0000 Un/Sh: 2.0000 1,767.41 2.277.49 4.044.90 93.07 Leveling Course 24.00 CY F6319A 50 10.00 2,668 3.210 3.644 9.522 Mh: 56.00 Shifts: 0.8 Mh/Un: 2.3333 Un/Sh: 30.0000 111.16 133.75 151.83 396.75 93.08 Trucking 2.00 EX F6319A 50 10.00 2,668 3.210 3.644 9.522 93.09 Tremie Pump and Level Cours 2.00 EX F6319A 50 10.00 2,668 4.218.50 4.218.50 4.218.50 93.09 Tremie Pump and Level Cours 2.00 EX F6319A 50 10.00 5,350 2.240 2.2140 93.10 Poly Tube Injection / Seal 2.00 EX F6319A 50 10.00 5,350 4.218.50 2.550 Mh: Shifts: Mh/Un: Un/Sh: 2.675.00 2.675.00 2.675.00 *********************************												
93.04 Tremie Pour										,		
Mile 200.00 Shifts: 2.5 Mh/Un: 1.3793 Un/Sh: 58.0000 60.94 133.75 78.53 273.23							,	19 394		,		
Min Shifts								,		,		
93.06 Dewater and Seal 2.00 EA F6319A 50 10.00 3.535 4.555 8.090 30.07	93.05		25,375.00								12,688	
Mh: 80.00 Shifts: 1.0 Mh/Un: 40.0000 Un/Sh: 2.0000 1,767.41 2,277.49 4,044.90 93.07		Shifts:			Un/Sh:			0.54			0.50	
93.07												•
Mh: 56.00 Shifts: 0.8 Mh/Un: 2.3333 Un/Sh: 30.0000 111.16 133.75 151.83 396.75 93.08 Trucking 2.00 LS F6319A 50 10.00 8,437 8,437 Mh: Shifts: Mh/Un: Un/Sh: 4,218.50 2,140 2,140 93.09 Tremic Pump and Level Cours 2.00 EA F6319A 50 10.00 5.350 2,140 2,140 Mh: Shifts: Mh/Un: Un/Sh: 2,675.00 5,350 5,350 Mh: Shifts: Mh/Un: Un/Sh: 2,675.00 2,675.00 2,675.00 ***********************************								2 210		,		
93.08 Trucking		· ·						,				
93.09 Tremie Pump and Level Cours 2.00 EA F6319A 50 10.00 1,070							111110	100.70	8,437	101100		
Mh: Shifts: Mh/Un: Un/Sh: 1,070.00	Mh:	Shifts:	Mh/Un:		Un/Sh:				4,218.50			4,218.50
93.10 Poly Tube Injection / Seal 2.00 EA F6319A 50 10.00 5,350 2,675.00 2,675.00		*) EA		50 10.00				,		
Mh: Shifts: Mh/Un: Un/Sh: 2,675.00 2,675.00 ***********************************						50 10.00		5.250		1,070.00		
Mh: 1,269.53 Mh/Un: 1,269.5300 56,287.74 41,529.38 8,437.00 74,878.54 12,687.50 193,820.16 **** 94 Mechanical Work Takeoff: 1.00 LS Bid: 1.00 LS 94.01 Baffle Skimmer 2.00 EA F6319A 50 10.00 3,891 53,500 4,680 62,071 Mh: 80.00 Shifts: 1.6 Mh/Un: 40,0000 Un/Sh: 1.2500 1,945.62 26,750.00 2,339.98 31,035.60 94.05 60 HP Flygt Pump 2.00 EA F6319A 50 10.00 33,595 699,266 35,100 767,961 Mh: 720.00 Shifts: 12.0 Mh/Un: 360.000 Un/Sh: 0.1667 16,797.70 349,633.20 17,549.82 383,980.72 94.06 18" DIP Discharge 500.00 LF F6319A 50 10.00 8,106 38,988 9,749 56,843 Mh: 166.66 Shifts: 3.3 Mh/Un: 0.3333		•) EA		50 10.00						
Mh: 1,269.53 Mh/Un: 1,269.5300 56,287.74 41,529.38 8,437.00 74,878.54 12,687.50 193,820.16 **** 94 Mechanical Work Takeoff: 1.00 LS Bid: 1.00 LS 94.01 Baffle Skimmer 2.00 EA F6319A 50 10.00 3,891 53,500 4,680 62,071 Mh: 80.00 Shifts: 1.6 Mh/Un: 40,0000 Un/Sh: 1.2500 1,945.62 26,750.00 2,339.98 31,035.60 94.05 60 HP Flygt Pump 2.00 EA F6319A 50 10.00 33,595 699,266 35,100 767,961 Mh: 720.00 Shifts: 12.0 Mh/Un: 360.000 Un/Sh: 0.1667 16,797.70 349,633.20 17,549.82 383,980.72 94.06 18" DIP Discharge 500.00 LF F6319A 50 10.00 8,106 38,988 9,749 56,843 Mh: 166.66 Shifts: 3.3 Mh/Un: 0.3333												
Methanka Work Takental Work Addition Takental Work Addition Takental Work Addition Addition Takental Work Addition Addition Addition Takental Work Addition			,,	****							,	,
Mh: 80.00 Shifts: 1.6 Mh/Un: 40.0000 Un/Sh: 1.2500 1,945.62 26,750.00 2,339.98 31,035.60 94.05 60 HP Flygt Pump 2.00 EA F6319A 50 10.00 33,595 699,266 35,100 767,961 Mh: 720.00 Shifts: 12.0 Mh/Un: 360.0000 Un/Sh: 0.1667 16,797.70 349,633.20 17,549.82 383,980.72 94.06 18" DIP Discharge 500.00 LF F6319A 50 10.00 8,106 38,988 9,749 56,843 Mh: 166.66 Shifts: 3.3 Mh/Un: 0.3333 Un/Sh: 150.0150 16.21 77.98 19.50 113.69 94.08 12" Check Valve 6.00 EA F6319A 50 10.00 9,728 79,608 11,700 101,036 Mh: 200.00 Shifts: 4.0 Mh/Un: 33.3333 Un/Sh: 1.5000 1,621.35 13,268.00 1,949.98 16,839.33 <	*** 94		Mechanical W	ork			Takeoff:	1.00	LS	Bid:	1.	00 LS
94.05 60 HP Flygt Pump 2.00 EA F6319A 50 10.00 33,595 699,266 35,100 767,961 Mh: 720.00 Shifts: 12.0 Mh/Un: 360.0000 Un/Sh: 0.1667 16,797.70 349,633.20 17,549.82 383,980.72 94.06 18" DIP Discharge 500.00 LF F6319A 50 10.00 8,106 38,988 9,749 56,843 Mh: 166.66 Shifts: 3.3 Mh/Un: 0.3333 Un/Sh: 150.0150 16.21 77.98 19.50 113.69 94.08 12" Check Valve 6.00 EA F6319A 50 10.00 9,728 79,608 11,700 101,036 Mh: 200.00 Shifts: 4.0 Mh/Un: 33.3333 Un/Sh: 1.5000 1,621.35 13,268.00 1,949.98 16,839.33 94.09 NBG Sets / Flanges 24.00 EA F6319A 50 10.00 19,456 111,194 23,400 154,050 Mh: 400.00												•
Mh: 720.00 Shifts: 12.0 Mh/Un: 360.0000 Un/Sh: 0.1667 16,797.70 349,633.20 17,549.82 383,980.72 94.06 18" DIP Discharge 500.00 LF F6319A 50 10.00 8,106 38,988 9,749 56,843 Mh: 166.66 Shifts: 3.3 Mh/Un: 0.3333 Un/Sh: 150.0150 16.21 77.98 19.50 113.69 94.08 12" Check Valve 6.00 EA F6319A 50 10.00 9,728 79,608 11,700 101,036 Mh: 200.00 Shifts: 4.0 Mh/Un: 33.3333 Un/Sh: 1.5000 1,621.35 13,268.00 1,949.98 16,839.33 94.09 NBG Sets / Flanges 24.00 EA F6319A 50 10.00 19,456 111,194 23,400 154,050 Mh: 400.00 Shifts: 8.0 Mh/Un: 16.6667 Un/Sh: 3.0000 810.67 4,633.10 974.99 6,418.76 <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr<>												
94.06 18" DIP Discharge 500.00 LF F6319A 50 10.00 8,106 38,988 9,749 56,843 Mh: 166.66 Shifts: 3.3 Mh/Un: 0.3333 Un/Sh: 150.0150 16.21 77.98 19.50 113.69 94.08 12" Check Valve 6.00 EA F6319A 50 10.00 9,728 79,608 11,700 101,036 Mh: 200.00 Shifts: 4.0 Mh/Un: 33.3333 Un/Sh: 1.5000 1,621.35 13,268.00 1,949.98 16,839.33 94.09 NBG Sets / Flanges 24.00 EA F6319A 50 10.00 19,456 111,194 23,400 154,050 Mh: 400.00 Shifts: 8.0 Mh/Un: 16.6667 Un/Sh: 3.0000 810.67 4,633.10 974.99 6,418.76 94.10 24 x 12 Cross w/Cap 3.00 EA F6319A 50 10.00 7,296 12,840 8,775 28,911 Mh: 150.00								,			2	
Mh: 166.66 Shifts: 3.3 Mh/Un: 0.3333 Un/Sh: 150.0150 16.21 77.98 19.50 113.69 94.08 12" Check Valve 6.00 EA F6319A 50 10.00 9,728 79,608 11,700 101,036 Mh: 200.00 Shifts: 4.0 Mh/Un: 33.3333 Un/Sh: 1.5000 1,621.35 13,268.00 1,949.98 16,839.33 94.09 NBG Sets / Flanges 24.00 EA F6319A 50 10.00 19,456 111,194 23,400 154,050 Mh: 400.00 Shifts: 8.0 Mh/Un: 16.6667 Un/Sh: 3.0000 810.67 4,633.10 974.99 6,418.76 94.10 24 x 12 Cross w/Cap 3.00 EA F6319A 50 10.00 7,296 12,840 8,775 28,911 Mh: 150.00 Shifts: 3.0 Mh/Un: 50.0000 Un/Sh: 1.0000 2,432.02 4,280.00 2,924.97 9,636.99											3.	
94.08 12" Check Valve 6.00 EA F6319A 50 10.00 9,728 79,608 11,700 101,036 Mh: 200.00 Shifts: 4.0 Mh/Un: 33.3333 Un/Sh: 1.5000 1,621.35 13,268.00 1,949.98 16,839.33 94.09 NBG Sets / Flanges 24.00 EA F6319A 50 10.00 19,456 111,194 23,400 154,050 Mh: 400.00 Shifts: 8.0 Mh/Un: 16.6667 Un/Sh: 3.0000 810.67 4,633.10 974.99 6,418.76 94.10 24 x 12 Cross w/Cap 3.00 EA F6319A 50 10.00 7,296 12,840 8,775 28,911 Mh: 150.00 Shifts: 3.0 Mh/Un: 50.0000 Un/Sh: 1.0000 2,432.02 4,280.00 2,924.97 9,636.99 94.11 24" Well 700.00 LF F6319A 50 10.00 6,080 226,086 7,312 525,000 764,478 Mh:										,		•
Mh: 200.00 Shifts: 4.0 Mh/Un: 33.3333 Un/Sh: 1.5000 1,621.35 13,268.00 1,949.98 16,839.33 94.09 NBG Sets / Flanges 24.00 EA F6319A 50 10.00 19,456 111,194 23,400 154,050 Mh: 400.00 Shifts: 8.0 Mh/Un: 16.6667 Un/Sh: 3.0000 810.67 4,633.10 974.99 6,418.76 94.10 24 x 12 Cross w/Cap 3.00 EA F6319A 50 10.00 7,296 12,840 8,775 28,911 Mh: 150.00 Shifts: 3.0 Mh/Un: 50.0000 Un/Sh: 1.0000 2,432.02 4,280.00 2,924.97 9,636.99 94.11 24" Well 700.00 LF F6319A 50 10.00 6,080 226,086 7,312 525,000 764,478 Mh: 125.00 Shifts: 2.5 Mh/Un: 0.1786 Un/Sh: 280.0000 8.69 322.98 10.45 750.00												
Mh: 400.00 Shifts: 8.0 Mh/Un: 16.6667 Un/Sh: 3.0000 810.67 4,633.10 974.99 6,418.76 94.10 24 x 12 Cross w/Cap 3.00 EA F6319A 50 10.00 7,296 12,840 8,775 28,911 Mh: 150.00 Shifts: 3.0 Mh/Un: 50.0000 Un/Sh: 1.0000 2,432.02 4,280.00 2,924.97 9,636.99 94.11 24" Well 700.00 LF F6319A 50 10.00 6,080 226,086 7,312 525,000 764,478 Mh: 125.00 Shifts: 2.5 Mh/Un: 0.1786 Un/Sh: 280.0000 8.69 322.98 10.45 750.00 1,092.11 94.12 48"x 100" HS 20 Hatch & Fra 2.00 EA F6319A 50 10.00 2,432 2,925 5,357					Un/Sh:	1.5000						
94.10 24 x 12 Cross w/Cap 3.00 EA F6319A 50 10.00 7,296 12,840 8,775 28,911 Mh: 150.00 Shifts: 3.0 Mh/Un: 50.0000 Un/Sh: 1.0000 2,432.02 4,280.00 2,924.97 9,636.99 94.11 24" Well 700.00 LF F6319A 50 10.00 6,080 226,086 7,312 525,000 764,478 Mh: 125.00 Shifts: 2.5 Mh/Un: 0.1786 Un/Sh: 280.0000 8.69 322.98 10.45 750.00 1,092.11 94.12 48"x 100" HS 20 Hatch & Fra 2.00 EA F6319A 50 10.00 2,432 2,432 2,925 5,357		•										
Mh: 150.00 Shifts: 3.0 Mh/Un: 50.0000 Un/Sh: 1.0000 2,432.02 4,280.00 2,924.97 9,636.99 94.11 24" Well 700.00 LF F6319A 50 10.00 6,080 226,086 7,312 525,000 764,478 Mh: 125.00 Shifts: 2.5 Mh/Un: 0.1786 Un/Sh: 280.0000 8.69 322.98 10.45 750.00 1,092.11 94.12 48"x 100" HS 20 Hatch & Fra 2.00 EA F6319A 50 10.00 2,432 2,925 5,357												
94.11 24" Well 700.00 LF F6319A 50 10.00 6,080 226,086 7,312 525,000 764,478 Mh: 125.00 Shifts: 2.5 Mh/Un: 0.1786 Un/Sh: 280.0000 8.69 322.98 10.45 750.00 1,092.11 94.12 48"x 100" HS 20 Hatch & Fra 2.00 EA F6319A 50 10.00 2,432 2,925 5,357		*					,	,				
Mh: 125.00 Shifts: 2.5 Mh/Un: 0.1786 Un/Sh: 280.0000 8.69 322.98 10.45 750.00 1,092.11 94.12 48"x 100" HS 20 Hatch & Fra 2.00 EA F6319A 50 10.00 2,432 2,925 5,357											525,000	
94.12 48"x 100" HS 20 Hatch & Fra 2.00 EA F6319A 50 10.00 2,432 2,925 5,357												
Mh: 50.00 Shifts: 1.0 Mh/Un: 25.0000 Un/Sh: 2.0000 1,216.01 1,462.49 2,678.50												
	Mh:	50.00 Shifts: 1.0) Mh/Un:	25.0000	Un/Sh:	2.0000	1,216.01			1,462.49		2,678.50



				Activity	Onit Frice s	summar y					
Biditem Activity	Description	Quantity	Unit	Calend WC	dar Hrs/Shift	Labor	Perm Material	Constr Matl/Exp	Equip- Ment	Sub- Contract	Total
94.13	75"x 86" HS 20 Hatch &	Fram 2.00	EA	F6319A	50 10.00	1,459			1,755		3,214
Mh:	30.00 Shifts: 0.6	Mh/Un:	15.0000	Un/Sh:	3.3333	729.61			877.50		1,607.11
94.14	56"x 112" HS 20 Hatch &	& Fra 2.00	EA	F6319A	50 10.00	5,837			7,020		12,857
Mh:	120.00 Shifts: 2.4	Mh/Un:		Un/Sh:	0.8333	2,918.43			3,509.96		6,428.39
94.15	55"x 51" Hatch & Frame		EA	F6319A					4,387		8,036
Mh:	75.00 Shifts: 1.5	Mh/Un:		Un/Sh:	2.0000				1,462.49		2,678.50
94.16	36"x 60" Hatch & Frame		EA	F6319A					2,925		5,357
Mh:	50.00 Shifts: 1.0	Mh/Un:		Un/Sh:	2.0000	1,216.01	101 115		1,462.49		2,678.50
94.20	11'-8" x 8' x 7' Vault		EA 200 0000	F6319A Un/Sh:					35,100		165,399
Mh: 95.01	600.00 Shifts: 12.0 Concrete Cover (20' Dia.)	Mh/Un:	200.0000 EA	F6319A	0.2500 50 10.00	,	33,705.00 38,520		11,699.88 2,632		55,132.98
95.01 Mh:	45.00 Shifts: 0.9	Mh/Un:		Un/Sh:	2.2222		19,260.00		1,316.24	,	21,670.65
95.02	Platform (8.44 NAVD)		22.3000 EA	F6319A		,			2,340	5,000	9,286
Mh:	40.00 Shifts: 0.8	Mh/Un:		Un/Sh:	2.5000	972.81			1,169.99	2,500.00	
95.03	Landscaping Screening	2.00		F6319A					1,107.77	15,000	15,000
Mh:	Shifts:	Mh/Un:	LO	Un/Sh:	20 10.00					7,500.00	
95.04	Grout / Seal / Coatings	2.00	LS	F6319A	50 10.00	3,648	16,050		4,387	7,500.00	24,086
Mh:	75.00 Shifts: 1.5	Mh/Un:		Un/Sh:	1.3333	1,824.02			2,193.73		12,042.75
95.05	Start-up / Commissioning		EA	F6319A		,			1,755		4,284
Mh:	30.00 Shifts: 0.6	Mh/Un:	15.0000	Un/Sh:	3.3333	729.61	535.00		877.50		2,142.11
95.06	Warranty Allowance	2.00	EA	F6319A		1,946	10,700		2,340		14,986
Mh:	40.00 Shifts: 0.8	Mh/Un:	20.0000	Un/Sh:	2.5000	972.81	5,350.00		1,169.99		7,492.80
95.07	14th Ct. & Bay Rd. Set U	p 2.00	EA	F6319A	50 10.00	47,911			57,622		105,533
Mh:	985.00 Shifts: 19.7	Mh/Un:	492.5000	Un/Sh:	0.1015	23,955.42			28,810.96		52,766.38
95.08	24" Well Credit	-1.00	LS	F6319A	50 10.00					-281,750	-281,750
Mh:	Shifts:	Mh/Un:		Un/Sh:						281,750.00	281,750.00
		94 ***** ,981.6600	****			192,244 192,243.95	1,388,937 1,388,937.00		225,904 225,904.25	263,250.00 2	
*** 95		Electrical / I&	:C			Takeoff:	1.00	LS	Bid:		00 LS
55.1	Control Pannels w/ Floats		EA	F6319A	50 10.00						422,493
Mh:	Shifts:	Mh/Un:		Un/Sh:						211,246.50	
55.2 Mh:	Ductbank - Civil 1,380.00 Shifts: 23.0	920.00 Mh/Un:	1.5000	F6319A Un/Sh:	50 10.00 40.0000		23,433 25.47		67,274 73.12		155,098 168.59
		95 ***** ,380.0000	****			64,391 64,391.17	23,433 23,433.00		67,274 67,274.31	422,493 422,493.00	,
*** 96		Rock Anchors	3			Takeoff:	1.00	LS	Bid:	1.	00 LS
96.01	Rock Anchors	8.00	EA	F6319A	50 10.00		299,600				299,600
Mh:	Shifts:	Mh/Un:		Un/Sh:			37,450.00			3	37,450.00
***** Mh:	*****Biditem/Category Mh/Un:	96 ****	****			:	299,600 299,600.00			29	299,600 99,600.00
*** 100		24" Interconn	0 1			Takeoff:	1.00		Bid:	1.	00 LS
100.01	Sheet Plating - Shoring	110.00		F6319A				7,651	47,628	1,000	97,154
Mh:	840.00 Shifts: 12.0	Mh/Un:		Un/Sh:	9.1667	363.81	7.78	69.55	432.98	9.09	883.22
100.02	Dewatering	1.00		F6319A					8,904		31,429
Mh:	240.00 Shifts: 6.0	Mh/Un:	240.0000		0.1667	,	10,138.21		8,904.42		31,429.20
100.03	Excavation	300.00		F6319A			5,350		13,175	60,000	92,523
Mh:	300.00 Shifts: 5.0	Mh/Un:		Un/Sh:	60.0000				43.92	200.00	308.41
100.04	Set up / Down & Install	1.00 Mb/Un:		F6319A					11,550	,	35,871
Mh: 100.05	500.00 Shifts: 10.0 Seal & Grout	Mh/Un: 600.00		Un/Sh: F6319A	0.1000 50 10.00	,	10,165		11,550.30 2,950		35,870.52 17,979
Mh:	100.00 Shifts: 2.0	Mh/Un:		Un/Sh:		,	16.94		4.92		29.96
****	****Biditem/Category 1	00 ****	****			95,588	26,509	7,651	84,207	61 000	274,955
	- ·	,980.0000					26,509.21	7,650.50	84,207.34	· · · · · · · · · · · · · · · · · · ·	
*** 120		Utility Reloca	tions and 1	Domeral		Takeoff:	1.00	1.0	Bid:	1	00 LS
120.1	Utility Relocations and R			F6319A	50 10.00		1.00	7,000	83,885	1.	00 LS 207,608
	2,450.00 Shifts: 35.0				0.0286	,		7,000.00	83,884.85	20	07,608.05
17111.	2,730.00 SHIIIS. 33.0	1V111/ U11	0.0000 ج.,⊤	OH/311:	0.0200	110,723.20		7,000.00	05,004.05	20	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,



Biditem Activity Description	Quantity	Caler Unit WC	ndar Hrs/Shift Labor	Perm Constr Material Matl/Exp	Equip- Ment	Sub- Contract Total
*******Biditem/C	Category 120 *****	****	116,723	7,000	83,885	207,608
Mh: 2,450.00	Mh/Un: 2,450.0000		116,723.20	7,000.00	83,884.85	207,608.05
Mh: 36,569.23	***REPORT TOTALS***		1,868,089	3,717,910 606,799	2,806,853	1,460,119 10,459,770

N = Activity not adjusted to bid quantity

Exhibit A



Xylem Water Solutions USA Inc. / Flygt Products

15132 Park of Commerce Blvd. Suite 102 Jupiter, Florida 33478

Phone: 561-848-1200 • Fax: 561-848-1299

April 16, 2021

RIC-MAN CONSTRUCTION FL INC 3100 SW 15TH ST DEERFIELD BEACH FL 33442

Quote # 2019-WEP-0815

Project Name: (1) Lincoln Road

Xylem Water Solutions USA, Inc. is pleased to provide a quote for the following Flygt equipment.

West Ave PS Qty Description PL7065, 63, 840, 523mm 22 deg, 43-30-8AA, 135HP, 715 drive unit, 460V, 60Hz, Mas 711, S3x70+3x35/3+2S92x.,5)175ft, S12, 1,5 175ft Shaft: AISI 431 Stainless Steel Zinc anodes attached on pump & drive unit FW3S620G 20'X5/8" LIFT CHAIN+ 316SS 6 Fully Integrated VFD Control Panel for 6 pumps. Includes NEMA 4X 316SS Modular enclosure. MultiSmart Pump Station Manager for control & future SCADA. Primary Level Pressure transducers with back up Float logic. Air Conditioned enclosure with separate Emergency Backup Generator Receptacle. BASE UNIT/PANEL ASSEMBLY MAS 6 TRANSFORMER, CURRENT 300:1 6 12 SENSOR, ENM-10 0.95-1.1 65' HOLDER, CABLE HEAVY DUTY 316SS 6 10 60" X 60" Frame Opening Alum AHD Hatches 48" X 60" Frame Opening Alum AHD Hatches 6 2 78" X 78" Frame Opening Alum AHD Hatches USF 230-AA 41 1/2" Ring w/Cover 6 7 48" X 84" Frame Opening Alum AHD Hatches 1 56" X 88" Frame Opening Alum AHD Hatches 50" X 51" Frame Opening Alum AHD Hatches 1 3 USF 230-AA 49 1/2" Ring w/Cover 4 START UP, FLYGT, NO TAX 1-TP MODELS: 3000,7000,8000 SS316 Pump Tube 32" OD x 23' - 6" LG with Side Discharge 32" OD x 34" LG 6 from Tube CL SS316 Formed Suction Intake for 32" Pump Tube 6 6 Wall Brackets SS 316 Pump Tube Wall bracket 6 CABLE ENTRY UNIT 6 GRIP, CABLE SS 19-24MM 6 GRIP, CABLE SS 25-36MM 6 HOLDER, CABLE 304 6 PIPE, SQUARE 304 L=860MM 12 EYE, LIFTING UNIT 6 EYE, LIFTING UNIT 6 WIRE UNIT 12 PIPE UNIT





Xylem Water Solutions USA Inc. / Flygt Products

15132 Park of Commerce Blvd. Suite 102 Jupiter, Florida 33478

Phone: 561-848-1200 • Fax: 561-848-1299

Total Price

\$ 2,709,550.05

189,669

Exclusions:

WE DO NOT SUPPLY, PIPING, VALVES, GUIDE BARS, PRESSURE GAUGES, DISCONNECTS, JUNCTION

BOXES, KELLUMS GRIPS, SURGE PROTECTION EQUIPMENT, SPARE PARTS, LABOR OR ANY OTHER

ITEM NOT SPECIFICALLY LISTED ABOVE.

PLEASE MAKE PURCHASE ORDERS OUT TO: XYLEM WATER SOLUTIONS USA, INC.

Validity:

THIS QUOTE IS VALID FOR NINETY (90) DAYS UNLESS LONGER TIME AGREED TO IN WRITING.

Taxes:

State, local, and other applicable taxes are not included in this quotation.

Freight Terms:

DAP; Jobsite - Full Freight Allowed (per Incoterms 2020)

Terms of delivery: PP/Add Order Position

Delivery lead-times may be impacted by the current COVID-19 virus pandemic relative to

transportation logistics.

Shortages:

Xylem will not be responsible for apparent shipment shortages or damages incurred in shipment that are not reported within two weeks from delivery to the jobsite. Damages should be noted on the receiving slip and the truck driver advised of the damages. Please contact our office as soon as possible to report damages or shortages so that replacement items can be shipped and the

appropriate claims made.

Payment Terms: 100% NET 45 DAYS AFTER SHIPMENT DATE.

(Note: Partial billing will be made on partial shipments)

Xylem's payment shall not be dependent upon Purchaser being paid by any third party unless Owner denies payment due to reasons solely attributable to items related to the equipment being provided by

FLYGT.

Schedule:

Please consult your local Flygt branch for submittals and fabrication lead-times.

Back Charges:

Buyer shall not make purchases nor shall Buyer incur any labor that would result in a back charge to

Seller without prior written consent of an authorized employee of Seller.

Terms & Conditions: This order is subject to the Standard Terms and Conditions of Sale - Xylem Americas effective on the date the order is accepted which terms are available at http://www.xyleminc.com/en-us/Pages/terms-conditions-of-sale.aspx and incorporated herein by reference and made part of the agreement between the parties.

We thank you for your interest in our equipment and look forward to being of service to you in the near future.

Please feel free to call if you have any questions or if you require assistance.

Sincerely.

Debout Decolor

Exhibit A



Deborah Scanlon Inside Sales Engineer Rick Reyes Sales Representative Xylem Water Solutions USA Inc. / Flygt Products

15132 Park of Commerce Blvd. Suite 102 Jupiter, Florida 33478

Phone: 561-848-1200 • Fax: 561-848-1299

deborah.scanlon@xyleminc.com IN THE ABSENCE OF A FORMAL ISSUED BINDING CONTRACT.	PURCHASE ORDER, A SIGNED COPY OF THIS P	ROPOSAL IS ACCEPTABLE AS A
Xylem Water Solutions USA, Inc.	Company Name:	
	Address:	
	Accepted By:	
	Print Name:	
	Deter	





RIC-MAN Construction Florida, Inc. 3100 SW 15th Street, Deerfield Beach, Florida 33442

Office: (954)426-1221 | Fax: (954)426-1226

PURCHASE ORDER No.17KB91-021R

Project: West Avenue Neighborhood (North)

Today Date:

8/26/2019

Date of General Contract: Date Materials Required:

1/17/2017 3/10/2020

F.O.B.:

Xylem Water Solutions USA, Inc. Seller:

15132 Park of Commerce Building./102, Jupiter, FL, 33478

City of Miami Beach Owner:

1755 Meridan Ave, 3rd Floor, Miami Beach, FL 33139

Engineer:

ltem	Description	Quantity	Unit	Unit Price	Extension
	Pumps, Cables, Hangers, tubes and Control Panels as listed in August 7, 2019* Quote attached. Start-up support and warranty as required by Client Contract Shop Drawing delivery time 4 weeks Panels delivery time 12 weeks from approved shop drawings Pumps delivery time 12 weeks from approved shop drawings Optional Add to PO	1.00	units	\$ 2,000,427.00 \$ 97,209.80	\$ 2,000,427.00
	AS PER QUOTE ATTACHED				
				SubTotal	\$ 2,000,427.00
This	agreement is made between Ric-Man Construction Florida, Inc. (Contractor) and Xyle	m WS USA (Seller)	The	Tax	\$ 120,025.62
nan no	Conditions on back govern this Purchase Order. Soller's form of acceptance, sales or govern the relationship between the parties, and any contradictory terms and conditions.	itions contained in	Seller's	Freight	\$ 76,377.00
ocume	nt shall not affect Contractor's rights and remedies and Seller's obligations. Reference Seller's quotation, sales literature, or other documents are for purposes of descripti	e in this Purchase O	rder to	Site Service	\$ 5,196.00
	the state of the state of the state of purposes of description	on and price only.	- 1	Surtax	\$ 50.00
			- 1	Total	\$ 2,202,075.62

RIC-MAN Construction Florida, Inc.

Correspondence To Site Superintendent

Tyson DiPetrillo Brian Baribeault

954-448-6994

954-495-7820

*Accepted by Xylem

Susan M.

Approved By Contractor

Button

Digitally signed by Susan M. Button DN: cn=Susan M. Button, o=508-207-0966, ou=Xylem Water Solutions USA, Inc., email=susan.button@xyleminc.com, c=US

Date: 2019.09.12 13:25:48 -04'00'

Accepted By Seller

Date

NOTE: PO # KB91-021R replaces KB91-021 dated 11/13/2017 which is now null and void

*Accepted by Xylem as modified by original terms agreement modifications dated November 7, 2017 attached

Susan M. Button National Contracts Manager 204 Harrington Circlo East Brookfield MA 01515 Susan.button@xyleminc.com 508-207-0966 (Cell)



November 7, 2017

Mr. Michael Fischer, COO Ric-Man Const. FL, Inc. 3100 SW 15th Street Deerfield Beach, FL 33442 mfischer@ric-man.com

SUBJECT:

KB-91 West Avenue Neighborhood (North)

Your P.O. # 16-KB91-021

FLYGT PRODUCTS Quotation dated January 11, 2016

Dear Mike,

Thank you for this order. I have modeled this after our recent agreement on Miami 19th Ave.

Scope of Supply

As detailed in and attached to your Purchase Order, the scope of equipment supply for this purchase order shall be as outlined in FLYGT'S quotation dated January 11, 2016, technical Specification, applicable addenda and general conditions as they specifically pertain to the equipment being provided hereunder. The proposal shall be incorporated as a binding part of the order. In addition, the terms and conditions of the FLYGT proposal shall be made a part of this purchase order. However, in the event of a conflict between Xylem's (FLYGT) terms and the Purchaser's terms, the Purchaser's terms shall govern except as modified herein.

Schedule

Submission of Submittals
Approval
Settables & Hatches
Panel (10 weeks)
Pumps (14 weeks)
Flow Pump Tube / Suction Intake

week of November 20, 2017 week of December 18, 2017 week of January 29, 2018 week of February 26, 2018 week of March 26, 2018 week of April 2, 2018

General Conditions

Item 1 – Line 2 – please add: "...of the Project <u>insofar and to the extent applicable to the equipment being provided under</u> this Purchase Order..."

Item 5 - Please delete as written and replace as follows:

Seller will provide invoices on our standard invoice form and agrees to provide partial and final waivers upon receipt of Contractor.

Payment terms shall be:

90% N60 following delivery of material to the jobsite 10% upon start-up, not to exceed 180 days after final delivery

We can offer the following SOV for invoicing:

Settables	\$ 31,083.00
Hatch	\$ 34,000.00
Panels & MAS Unit	\$325,087.60
Pumps	\$305,132.40
Flow Pump Tube	\$210,000.00
Suction Intake	\$100,500.00
Freight	\$ 18,722.00
Site Service	\$ 3,513.00

Seller's payment shall not be dependent upon Contractor being paid by any third party unless Owner denies payment due to reasons solely attributable to items related to the equipment being provided by Seller.

Item 6 – Line 2 – please add: "...date of cancellation, or in the event of specialty items, for payment of goods which have been completed as of the date of cancellation."

Item 7 - Please delete as written and replace as follows:

Seller acknowledges that time is a material element to the delivery of the equipment and agrees to furnish the materials in accordance with a mutually agreeable schedule. Upon failure to do so, Seller agrees to reimburse the Contractor for the proven portion of actual liquidated damages that may be assessed against and collected from the Purchaser which are attributable to or caused by Seller's failure to furnish the materials within the time or times as mutually agreed to. Liquidated damages shall not be assessed unless shipment occurs later than number of weeks outlined above for each deliverable after Seller's receipt of written approval to release for fabrication or Contractor's requested delivery date (whichever is later). Seller will not be assessed any liquidated damages by the Contractor unless the Contractor is specifically assessed damages. If more than one party is responsible for assessment of liquidated damages against the Purchaser, then the Seller shall be liable for only its portion of the total liquidated damages. Should Seller's performance be late and the delay does not affect Contractor's overall schedule, no liquidated damages shall be assessed. Liquidated damages shall be limited to \$1,000 / day and a maximum of 15% of the contract value.

The sell price includes freight allowed to the jobsite. Shipment will be handled by FLYGT and will be in accordance with Incoterm 2010 DAP Jobsite (FOB jobsite UCC).

Item 9 - Please delete the first sentence as written and replace as follows:

Seller represents and expressly warrants that the goods and services delivered pursuant to this Purchase Order conform to the applicable plan and specifications, the requirements of this Purchase Order, conform to descriptions and affirmations of fact contained in Seller's applicable sales literature, are new and of quality construction and will function in the manner specified.

Item 11 - Please delete as written and replace as follows:

Seller's failure to deliver in accordance with the mutually agreed upon schedule or good and services that do not conform to the applicable specifications and warranties stated above shall constitute a material breach of contract. In the event of a breach, Contractor shall notify Seller and provide Seller five (5) working days to correct or diligently pursue to the reasonable satisfaction of Contactor such breach. If Seller is unable to correct with the time or times mutually agreed upon, Contractor shall be entitled to cancel all or part of the order and be reimbursed for actual costs incurred as a result of Seller's breach.

Item 12 - Please delete as written and replace as follows:

Seller agrees to indemnify, defend (at own expense) and hold harmless Contractor its directors, officers, agents and employees from and against any and all claims, demands, losses and expenses, arising out of a) suits, claims and demands by reason of injury or death of any person(s) or damage to any property attributable to the willful misconduct or negligent acts or omissions of Seller, its subcontractors and their officers, agents or employees, except to the proportionate extent that such actions, claims, demands, proceedings, losses and expenses were caused by the Indemnified Parties or any of them.

It is the expressed intention of the parties, that each of them shall be liable for the consequences of their own negligent acts or omissions whether those acts or omission are the sole, joint, on concurring causes of any claims, demands, proceedings, losses or other liabilities; b) to hold Contractor harmless from and to protect, defend (at own expense) and indemnify Contractor against any and all loss, liability, damage and costs arising out of the use of equipment as provided under this order for infringement of any patent, copyright, trademark, trade name, brand or slogan. Seller will promptly defend and shall have control over such claim or suit.

If the use of any Product of any part thereof should be enjoined, Seller shall have the right at its own expense to procure for the Purchaser the right to continue using such Product, or to replace said Product with a non-infringing item or to modify said Product so that it becomes non-infringing.

Notwithstanding the foregoing, Supplier's indemnification obligations shall not apply to (i) compliance with designs, plans or specifications furnished by the Purchaser, (ii) use of the goods in a manner for which they were never designed or contemplated; (iii) Buyer combines Supplier's goods with something else unknown by Supplier wherein that combination infringes (contributory or inducing) or (iv) infringement of any patent in which the Purchaser or any affiliate have any direct or indirect interest.

Contractor and Seller waive against each other, and against the other's officers, directors, members, partners, and employees any and all claims for or entitlement to special, incidental, indirect, punitive, or consequential damages arising out of, resulting from, or related to the Contract. The parties further agree that the total liability of each party to the other for claims, costs, losses, and damages arising from this Contract shall be limited to the amount established in the Agreement as the Contract Price. The terms of this overall Limitation of Liability (but not the waiver) do not apply to or limit any claim by either party against the other based on the following: (a) costs, losses, or damages asserted by third parties for bodily injury, sickness, disease, or death, or to injury to or destruction of the tangible property; or (b) gross negligence or willful misconduct. Seller represents that it has adequate coverage and policy limits to insure the above indemnification of the Contractor.

Item 13 - Please add: "Both parties irrevocably agree to waive their rights to a trial by jury."

Back charges

Contractor shall not make purchases nor shall Contractor incur any labor that would result in a back charge to Seller without prior written consent of an authorized employee of Seller.

Xylem will not be responsible for shipment shortages or damages incurred in shipment that are not reported within two weeks from delivery to the jobsite. Damages should be noted on the receiving slip and the truck driver advised of the damages. Please contact our office as soon as possible to report damages or shortages so that replacement items can be shipped and the appropriate claims made.

In addition, we will need the following information to finalize your order.

- 1. Complete jobsite shipping address
- 2. Required invoice submission date (cut-off)
- 3. A copy of your payment bond for this project

We would appreciate it if you would execute this letter so that it becomes a binding part of your purchase order and our formal contractual obligations. Please sign and return to me via e-mail at Susan Button@xyleminc.com with the above requested items at your earliest possible convenience so that we may adhere to the above schedule. Failure to respond to this letter in a timely manner may delay submittals. If you have any questions or concerns, please do not hesitate to contact me at (508-207-0966).

Sincerely.

Susan M. Button (signed electronically)

Susan M. Dufault Button National Contracts Manager

Accepted by: (authorized party to bind company)

Printed Name

Signature



RIC-MAN Construction Florida, Inc. 3100 SW 15th Street, Deerfield Beach, Florida 33442 Office: (954)426-1221 | Fax: (954)426-1226

PURCHASE ORDER No.17KB91- 021R

Project: West Avenue Neighborhood (North)

GENERAL CONDITIONS

- ACCEPTANCE OR ACKNOWLEDGMENT. This order becomes a contract when Contractor receives written acceptance thereto or upon Seller delivering goods to Contractor. It is agreed that

 Seller shall furnish to Contractor the above listed materials and equipment in strict accordance with the general contract documents of the Project and this Purchase Order, subject to approval of
 the Owner, Owner's Engineer & Contractor, the quantities furnished shall be as required by Contractor. The quantities listed are estimates only. Final quantities are as required.
- 2 COMPLIANCE WITH PRIME CONTRACT AND LAWS. All applicable technical Specifications and plans of the Prime contract documents, state or federal statutes, rules and regulations are deemed to be incorporated in this Purchase Order by reference as though expressly repeated and binding upon the Seller. Seller agrees to furnish all shop drawings, samples, test data, manuals, instruction and warranties, required by prime contract documents, at its own expense.
- 3 TAXES. Seller assumes all liability for taxes of every type, applicable to the goods and services specified in this Purchase Order, unless expressly provided for in this Purchase Order.
- 4 PRICE. Seller may charge only the prices indicated in the Purchase Order, and shall not charge interest, service charges or any additional charges.
 - PAYMENT. The invoice shall be on a form provided by Contractor or acceptable to Contractor, and shall be accompanied by waivers of lien effective through the date of the application and such other documents as Contractor may reasonably require to support or verify the request for payment. In full consideration for the complete and timely performance of all obligations required of the Seller under this Purchase Order, Contractor shall pay to Seller the lump sum(s) or unit prices indicated on the face of this order. Determinations by the project owner of quantities of materials and equipment for which payment is due shall be final and binding upon Seller. The balance of the amount of the invoice, as approved by Contractor, shall be paid by Contractor to Seller within 3 adays after. Contractor receives payment from the Owner for the goods and services included in the invoice. Seller agrees that as a condition precedent to Contractor's obligation to make any payment, Contractor must first have received payment from the Owner in respect of the materials, equipment and services for which Seller seeks payment.
- CANCELLATION. Contractor reserves the right to cancel this order as to non-special order goods, at any time, upon written notice to Seller without penalty. Contractor will remain obligated to pay only for those goods and services which have been received at the job site as of the date of cancellation. If at that time of notice of cancellation Seller has placed goods in the hands of a carrier pay only for those goods and services which have been received at the job site as of the date of cancellation. If at that time of notice of cancellation Seller has placed goods in the hands of a carrier for delivery to Contractor or its consignee, Contractor will be responsible only for the delivery charges. The exercise of this right of cancellation shall not constitute a waiver by Contractor or of any of its other rights or remedies.
- DELIVERY. Time is of the essence in this Purchase Order. All goods and services are to be delivered on or before the "date required" specified above, unless otherwise indicated in this Purchase Order. Where goods and services are to be delivered in installments, delivery must be timely and as needed by Contractor. Unless otherwise specified, delivery shall be to the job site and off-loaded at the locations and according to the instructions of Contractor's authorized employee. Delivery shall be FOB on the ground at project site
- OUANTITIES. Seller shall deliver the quantity required by Contractor. The quantity may not be changed without Contractor's written consent. Contractor may change the quantity ordered. Such change shall not cause modification of the unit price unless Owner grants a corresponding change to Contractor. Any unauthorized quantity is subject to Contractor's rejection and return at Seller's expense.
 - REPRESENTATION AND WARRANTIES. Seller represents and expressly warrants that the goods and services delivered pursuant to this Purchase Order conform to Contractor's specifications and the requirements of the Purchase Order conform to descriptions and affirmations of fact contained in all of Seller's sales literature, are of merchantable quality and are fit for the specifications and the requirements of the Purchase Order conform to descriptions and affirmations of fact contained in all of Seller's sales literature, are of merchantable quality and are fit for the purpose for which they are designed. Seller also represents and expressly warrants title to the goods and that the goods covered by this order do not infringe on any patents granted by the United purpose for which they are designed. Seller also represents and expressly warrants title to the goods and that the goods covered by this order do not infringe on any patents granted by the United purpose for which they are designed. Seller also represents and expressly warrants and warranties shall not be deemed waived by acceptance of the goods and services or payment for them. There save no implied warranties including any implied warranty and those warranties set forth above.
 - INSPECTION. ACCEPTANCE OR REJECTION. All goods and services shall be received subject to Contractor's right of inspection and rejection and owner's final acceptance. Goods and services which do not conform precisely to Owner's or Contractor's specifications, defective goods and services, and goods which do not conform to Seller's representations or warranties may be rejected by Contractor upon reasonable notices and returned to Seller or held pending Seller's instructions, at Seller's expense. Contractor's right of rejection shall apply to all or any part of the goods and services. Payment of goods and services prior to inspection shall not constitute a waiver of the right of rejection if the goods and services are found to be in breach of this order at a later time. Payment for goods and services or failure to reject shall not constitute a waiver of any other remedies available to Contractor in respect of such goods and services.
- BREACH AND REMEDIES OF BUYER. Seller's failure to timely deliver all or any part of goods and services which conform strictly Contractor's specifications and warranties stated above constitute a material breach of contract, excusing Contractor from further performance. Seller shall have no right to cure the breach unless and to the extent allowed in writing by Contractor. In the event of any breach by Seller, Contractor shall be entitled to recover its actual damages Contractor shall have a right of setoff. In addition to the above, Contractor shall be entitled to recover from Seller all costs, disbursements and reasonable attorney fees incurred in connection with the enforcement of this Purchase Order.
 - INDEMNIFICATION. To the extent permitted by applicable law and this purchase order. Seller agrees to indemnify and save Contractor harmless against any and all claims, causes of action, charges, losses and expenses (including reasonable legal and expert fees) which may be asserted against Contractor or which Contractor might incur in respect of (a) personal injury or death or damages or losses to property to the extent caused by Seller's negligent acts or omissions or willful misconduct, except those resulting from Contractor's sole negligence; or (b) arising out of any defect in title and actual or alleged infringement of any patent, copyright, trademark or trade secret asserted against Contractor in respect of the delivery of goods and services covered by this order; or (i) arising out of any patent of the further order. Seller represents that it has adequate insurance coverage and policy limits to insure the above indemnification of Contractor.

MISCELLANEOUS. This Purchase Order constitutes the entire agreement between the parties and all prior oral and written communications shall be superseded by this document. No provisions of this document may be waived, changed, terminated, modified, discharged of rescinded, except by writing signed by an officer or authorized agent of the Contractor. Failure to assert a provision of this document shall not constitute a waiver of any rights or remedies available to Contractor. The litles of paragraphs are provided for convenience and shall not be deemed to limit the content of substance of any provision. If any provision of this document shall be held to be unenforceable or inapplicable in any respect, such determined shall not affect the enforceability of any other provision. The parties agree that all disputes, enforceability of any other provision. The provisions of this document shall bind and inure to the benefit of the parties, their assigns and successors in interest. The parties agree that all disputes, enforceability of any other provision of or related to this Purchase Order, including allegations of fraud, shall be settled in accordance with the rules of the American Arbitration Association. The controversies or claims rising out of or related to this Purchase Order, including allegations of fraud, shall be settled in accordance with the rules of the American Arbitration Association. The validity, interpretation and award rendered by the arbitrators shall be final and judgement may be entered upon it in accordance with applicable law in any court having jurisdiction. The validity, interpretation and performance of the Purchase Order shall be governed by the laws of the State of Florida. The parties ccept jurisdiction of the State of Florida and agree to accept service of process as if it were personally served within such jurisdiction. Notwithstanding the terms of any other agreement between the parties, in no event and under no circumstances shall either party be liable for incidental jurisdiction. No





Xylem Water Solutions USA, Inc. Flygt Products

15132 Park of Commerce Blvd./102 Jupiter, FL 33478 Tel (561) 848-1200 Fax (561) 848-1299

Date: April 16, 2021

To: Ric-Man Construction FL, Inc.

Attention: Michael Fischer

Subject: 14th CT 60HP Well Pump

Quote Number: 14C60WP

We are pleased to offer the following equipment:

Qty Description

- Flygt Model NP-3400/716 1270 16" volute Submersible pump equipped with a 460 Volt / 3 phase / 60 Hz 60 HP 585 RPM motor, 525MM impeller, 1 x 100 Ft. length of submersible cable, FLS leakage detector, volute is prepared for Flush Valve, Explosion proof Including Zinc anodes
- 1 START UP,FLYGT,NO TAX 1-TP MODELS: 3000,7000,8000
- 1 CONNECTION, DISCH 16" X 16" CI
- 1 ¾ 316SS Standard Mounting plate for 16X16 base elbow
- 40 CHAIN 5/8" 316SS (1 X 40')
- 1 KIT, CHAIN FITTING 316SS+ FLYGT
- 2 Heavy Duty anchor kits
- 70 TS3163 FEET 3"GUIDE RAIL 316SS (2 X 15' + 2 X 20')
- 1 BRACKET, GUIDE BAR UPPER 3" 316
- 1 3" 316SS Intermediate Guide Bar Bracket (16" Riser Pipe)
- 1 HOLDER, CABLE HEAVY DUTY 316SS
- 56" X 112" Frame Opening Drainage Well Hatches Galv Steel DT-AHD
- 1 75" X 86" Frame Opening Wet Well Hatch Galv Steel DT-AHD
- 1 \48" X 100" Frame Opening Settling Tank Hatch Galv Steel DT-AHD
- 1, 36" X 60" Frame Opening Settling Tank Hatch Galv Steel DT-AHD
- 4 SENSOR, ENM-10 0.95-1.165'
- Simplex Control Panel 460V 3Ph 60hp NEMA 3R12 316 SS enclosure w/ VFD, MultiSmart Primary control & LTU 801 pressure transducer and back up Float control & Gen receptacle
- 1 Motor/ Float Connection Box
- 1 SHIPPING AND HANDLING-NO TAX

Price: \$326,760.00

plus taxes, freight included

Exclusions:

WE DO NOT SUPPLY, PIPING, VALVES, GUIDE BARS, PRESSURE GAUGES, DISCONNECTS, JUNCTION BOXES, KELLUMS GRIPS, SURGE PROTECTION EQUIPMENT, SPARE PARTS, LABOR OR ANY OTHER ITEM NOT SPECIFICALLY LISTED ABOVE.

PLEASE MAKE PURCHASE ORDERS OUT TO: XYLEM WATER SOLUTIONS USA, INC.

Validity:

THIS QUOTE IS VALID FOR NINETY (90) DAYS UNLESS LONGER TIME AGREED TO IN WRITING.

Taxes:

State, local, and other applicable taxes are not included in this quotation.



Exhibit A



Xylem Water Solutions USA, Inc. Flygt Products

15132 Park of Commerce Blvd./102 Jupiter, FL 33478 Tel (561) 848-1200 Fax (561) 848-1299

Freight Terms: DAP; Jobsite - Full Freight Allowed (per Incoterms 2020)

Shortages: Xylem will not be responsible for apparent shipment shortages or damages incurred in shipment that

are not reported within two weeks from delivery to jobsite. Damages should be noted on the receiving slip and the truck driver advised of the damages. Please contact our office as soon as possible to report damages or shortages so that replacement items can be shipped and the appropriate claims

made.

Payment Terms: 100% NET 90 DAYS AFTER SHIPMENT DATE.

(Note: Partial billing will be made on partial shipments)

Xylem's payment shall not be dependent upon Purchaser being paid by any third party unless Owner denies payment due to reasons solely attributable to items related to the equipment being provided by

FLYGT.

<u>Schedule</u>: Please consult your local Flygt branch for submittals and fabrication lead-times.

Back Charges: Buyer shall not make purchases nor shall Buyer incur any labor that would result in a back charge to

Seller without prior written consent of an authorized employee of seller.

Terms & Conditions: This order is subject to the Standard Terms and Conditions of Sale – Xylem Americas effective on the date the order is accepted which terms are available at http://www.xyleminc.com/en-us/Pages/terms-conditions-of-sale.apx and incorporated herein by reference and made part of the agreement between the parties.

We thank you for your interest in our equipment and look forward to being of service to you in the near future.

IN THE ABSENCE OF A FORMAL ISSUED PURCHASE ORDER, A SIGNED COPY OF THIS PROPOSAL IS ACCEPTABLE AS A BINDING CONTRACT.

Xylem Water Solutions USA, Inc.	Company Name:	
Rul Ru	Address:	
	Accepted By:	
	Print Name:	
	Date:	





Xylem Water Solutions USA, Inc. Flygt Products

15132 Park of Commerce Blvd./102 Jupiter, FL 33478 Tel (561) 848-1200 Fax (561) 848-1299

Date: April 16, 2021

To: Ric-Man Construction FL, Inc.

Attention: Michael Fischer

Subject: Lincoln & Bay 60HP Well Pump

Quote Number: LB60WP

We are pleased to offer the following equipment:

Qty Description

Flygt Model NP-3400/716 1270 16" volute Submersible pump equipped with a 460 Volt / 3 phase / 60 Hz 60 HP 585 RPM motor, 525MM impeller, 1 x 100 Ft. length of submersible cable, FLS leakage detector, volute is prepared for Flush Valve, Explosion proof Including Zinc anodes

- 1 START UP,FLYGT,NO TAX 1-TP MODELS: 3000,7000,8000
- 1 CONNECTION, DISCH 16"X 16" CI
- 1 316SS Standard Mounting plate for 16X16 base elbow
- 40 CHAIN 5/8" 316SS (1 X 40')
- 1 KIT, CHAIN FITTING 316SS+ FLYGT
- 2 Heavy Duty anchor kits
- 70 TS3163 FEET 3"GUIDE RAIL 316SS (2 X 15' + 2 X 20')
- 1 BRACKET, GUIDE BAR UPPER 3" 316
- 1 3" 316SS Intermediate Guide Bar Bracket (16" Riser Pipe)
- 1 HOLDER, CABLE HEAVY DUTY 316SS
- 3 56" X 112" Frame Opening Drainage Well Hatches Galv Steel DT-AHD
- 1 75" X 86" Frame Opening Wet Well Hatch Galv Steel DT-AHD
- 1 48" X 100" Frame Opening Settling Tank Hatch Galv Steel DT-AHD
- 1 36" X 60" Frame Opening Settling Tank Hatch Galv Steel DT-AHD
- 4 SENSOR, ENM-10 0.95-1.165'
- Simplex Control Panel 460V 3Ph 60hp NEMA 3R12 316 SS enclosure w/ VFD, MultiSmart Primary control & LTU 801 pressure transducer and back up Float control & Gen receptacle
- 1 Motor/ Float Connection Box
- 1 SHIPPING AND HANDLING-NO TAX

Price: \$326,760.00 plus taxes, freight included

Exclusions: WE DO NOT SUPPLY, PIPING, VALVES, GUIDE BARS, PRESSURE GAUGES, DISCONNECTS, JUNCTION

BOXES, KELLUMS GRIPS, SURGE PROTECTION EQUIPMENT, SPARE PARTS, LABOR OR ANY OTHER

ITEM NOT SPECIFICALLY LISTED ABOVE.

PLEASE MAKE PURCHASE ORDERS OUT TO: XYLEM WATER SOLUTIONS USA, INC.

<u>Validity</u>: THIS QUOTE IS VALID FOR NINETY (90) DAYS UNLESS LONGER TIME AGREED TO IN WRITING.

<u>Taxes</u>: State, local, and other applicable taxes are not included in this quotation.





Xylem Water Solutions USA, Inc. Flygt Products

15132 Park of Commerce Blvd./102 Jupiter, FL 33478 Tel (561) 848-1200 Fax (561) 848-1299

Freight Terms: DAP; Jobsite - Full Freight Allowed (per Incoterms 2020)

Shortages: Xylem will not be responsible for apparent shipment shortages or damages incurred in shipment that

are not reported within two weeks from delivery to jobsite. Damages should be noted on the receiving slip and the truck driver advised of the damages. Please contact our office as soon as possible to report damages or shortages so that replacement items can be shipped and the appropriate claims

made.

Payment Terms: 100% NET 90 DAYS AFTER SHIPMENT DATE.

(Note: Partial billing will be made on partial shipments)

Xylem's payment shall not be dependent upon Purchaser being paid by any third party unless Owner denies payment due to reasons solely attributable to items related to the equipment being provided by

FLYGT.

<u>Schedule</u>: Please consult your local Flygt branch for submittals and fabrication lead-times.

Back Charges: Buyer shall not make purchases nor shall Buyer incur any labor that would result in a back charge to

Seller without prior written consent of an authorized employee of seller.

Terms & Conditions: This order is subject to the Standard Terms and Conditions of Sale – Xylem Americas effective on the date the order is accepted which terms are available at http://www.xyleminc.com/en-us/Pages/terms-conditions-of-sale.apx and incorporated herein by reference and made part of the agreement between the parties.

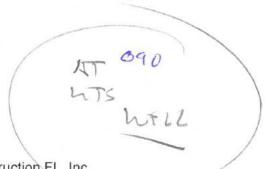
We thank you for your interest in our equipment and look forward to being of service to you in the near future.

IN THE ABSENCE OF A FORMAL ISSUED PURCHASE ORDER, A SIGNED COPY OF THIS PROPOSAL IS ACCEPTABLE AS A BINDING CONTRACT.

Xylem Water Solutions USA, Inc.	Company Name:	
Rul R	Address:	
	Accepted By:	
	Print Name:	
	Date:	







Xylem Water Solutions USA, Inc. Flygt Products

15132 Park of Commerce Blvd./102 Jupiter, FL 33478 Tel (561) 848-1200 Fax (561) 848-1299

Date: April 16, 2021

To: Ric-Man Construction FL, Inc.

Attention: Michael Fischer

Subject: Sedimentation Tank 25HP Well Pump

Quote Number: ST25WP

We are pleased to offer the following equipment:

Qty Description

- Flygt Model NP-3171.095 LT 10" volute Submersible pump equipped with a 460 Volt / 3 phase / 60 Hz 25 HP 1160 RPM motor, 614 impeller, 1 x 50 Ft. length of submersible cable, FLS leakage detector, volute is prepared for Flush Valve, Explosion proof
- 1 START UP, FLYGT, NO TAX 1-TP MODELS: 3000,7000,8000
- 1 CONNECTION, DISCH 10"X 10" CI
- 1 ½ X 316SS Standard Mounting plates (For 10" Base Elbow)
- 20 CHAIN 5/16" 316SS SWL2750# (1 X 20')
- 1 KIT, CHAIN FITTING 316SS+ FLYGT
- 8 ROD,THREADED 3/4"-10X12" 316SS
- 4 PPAC AC100PLUS ADHESIVE+ ANCHORING SYSTEM
- 30 TS3163 FEET 3"GUIDE RAIL 316SS (2 X 10' + 2 X 15")
- 1 BRACKET, GUIDE BAR UPPER 3" 316
- 1 HOLDER, CABLE HEAVY DUTY 316SS
- 1 56" X 88" Frame Opening Drainage Well Hatches Galv Steel DT-AHD
- 1 52" X 51" Frame Opening Wet Well Hatch Galv Steel DT-AHD
- 3 Storm Water Manhole Cover USF385 Ring
- 4 SENSOR, ENM-10 0.95-1.165'
- Simplex Control Panel 460V 3Ph 25hp NEMA 3R12 316 SS enclosure w/ MultiSmart Primary control & LTU 801 pressure transducer and back up Float control & Gen receptacle
- 1 Motor/ Float Connection Box
- 1 SHIPPING AND HANDLING-NO TAX

Price: \$117,735.54

plus taxes, freight included

Exclusions:

WE DO NOT SUPPLY, PIPING, VALVES, GUIDE BARS, PRESSURE GAUGES, DISCONNECTS, JUNCTION BOXES, KELLUMS GRIPS, SURGE PROTECTION EQUIPMENT, SPARE PARTS, LABOR OR ANY OTHER ITEM NOT SPECIFICALLY LISTED ABOVE.

PLEASE MAKE PURCHASE ORDERS OUT TO: XYLEM WATER SOLUTIONS USA, INC.

Validity:

THIS QUOTE IS VALID FOR NINETY (90) DAYS UNLESS LONGER TIME AGREED TO IN WRITING.

Taxes:

State, local, and other applicable taxes are not included in this quotation.





Xylem Water Solutions USA, Inc. Flygt Products

15132 Park of Commerce Blvd./102 Jupiter, FL 33478 Tel (561) 848-1200 Fax (561) 848-1299

Freight Terms:

DAP; Jobsite - Full Freight Allowed (per Incoterms 2020)

Shortages:

Xylem will not be responsible for apparent shipment shortages or damages incurred in shipment that are not reported within two weeks from delivery to jobsite. Damages should be noted on the receiving slip and the truck driver advised of the damages. Please contact our office as soon as possible to report damages or shortages so that replacement items can be shipped and the appropriate claims made.

Payment Terms: 100% NET 90 DAYS AFTER SHIPMENT DATE.

(Note: Partial billing will be made on partial shipments)

Xylem's payment shall not be dependent upon Purchaser being paid by any third party unless Owner denies payment due to reasons solely attributable to items related to the equipment being provided by

FLYGT.

Schedule:

Please consult your local Flygt branch for submittals and fabrication lead-times.

Back Charges:

Buyer shall not make purchases nor shall Buyer incur any labor that would result in a back charge to

Seller without prior written consent of an authorized employee of seller.

Terms & Conditions: This order is subject to the Standard Terms and Conditions of Sale – Xylem Americas effective on the date the order is accepted which terms are available at http://www.xyleminc.com/en-us/Pages/terms-conditions-of-sale.apx and incorporated herein by reference and made part of the agreement between the parties.

We thank you for your interest in our equipment and look forward to being of service to you in the near future.

IN THE ABSENCE OF A FORMAL ISSUED PURCHASE ORDER, A SIGNED COPY OF THIS PROPOSAL IS ACCEPTABLE AS A BINDING CONTRACT.

Xylem Water Solutions USA, Inc.	Company Name:	
Rul Ru	Address:	
	Accepted By:	
	Print Name:	
	Date:	





091

Xylem Water Solutions USA, Inc. Flygt Products

15132 Park of Commerce Blvd./102 Jupiter, FL 33478 Tel (561) 848-1200 Fax (561) 848-1299

Date: April 17, 2021

To:

Ric-Man Construction FL, Inc.

Attention: Michael Fischer

Subject: Dual 7.5 HP Sump Pumps

Quote Number: D7.5HPSP

D WTS Joikey Jimps

We are pleased to offer the following equipment:

Qty Description

- Flygt Model NP-3127.070 MT6" volute Submersible pump equipped with a 460 Volt / 3 phase / 60 Hz 7.5 HP 1745 RPM motor, 439 impeller, 1 x 175 Ft. length of submersible cable, FLS leakage detector, volute is prepared for Flush Valve, Explosion proof
- 1 START UP, FLYGT, NO TAX 1-TP MODELS: 3000,7000,8000
- 2 CONNECTION.DISCH 6"X 6" CI
- 2 ½ X 316SS Standard Mounting plates (For 6" Base Elbow)
- 60 CHAIN 3/16" 316SS (2 X 30')
- 2 KIT, CHAIN FITTING 316SS+ FLYGT
- 16 ROD, THREADED 3/4"-10X12" 316SS
- 8 PPAC AC100PLUS ADHESIVE+ ANCHORING SYSTEM
- 100 TS3162 FEET 2"GUIDE RAIL 316SS (4 X 10' + 4 X 15")
- 2 BRACKET, GUIDE BAR UPPER 2" 316
- 2 2" 316SS Intermediate Guide Bar Bracket (6" Riser Pipe)
- 2 HOLDER, CABLE HEAVY DUTY 316SS
- 4 SENSOR, ENM-10 0.95-1.165'
- Duplex Control Panel 460V 3Ph 7.5hp NEMA 3R12 316 SS enclosure w/ MultiSmart Primary control & LTU 801 pressure transducer and back up Float control & Gen receptacle
- 1 Motor/ Float Connection Box
- 1 SHIPPING AND HANDLING-NO TAX

Price: \$78,559.38 plus taxes, freight included

Exclusions:

WE DO NOT SUPPLY, PIPING, VALVES, GUIDE BARS, PRESSURE GAUGES, DISCONNECTS, JUNCTION

BOXES, KELLUMS GRIPS, SURGE PROTECTION EQUIPMENT, SPARE PARTS, LABOR OR ANY OTHER

ITEM NOT SPECIFICALLY LISTED ABOVE.

PLEASE MAKE PURCHASE ORDERS OUT TO: XYLEM WATER SOLUTIONS USA, INC.

Validity:

THIS QUOTE IS VALID FOR NINETY (90) DAYS UNLESS LONGER TIME AGREED TO IN WRITING.

Taxes:

State, local, and other applicable taxes are not included in this quotation.

Freight Terms:

DAP; Jobsite - Full Freight Allowed (per Incoterms 2020)





Xylem Water Solutions USA, Inc. Flygt Products

15132 Park of Commerce Blvd./102 Jupiter, FL 33478 Tel (561) 848-1200 Fax (561) 848-1299

Shortages:

Xylem will not be responsible for apparent shipment shortages or damages incurred in shipment that are not reported within two weeks from delivery to jobsite. Damages should be noted on the receiving slip and the truck driver advised of the damages. Please contact our office as soon as possible to report damages or shortages so that replacement items can be shipped and the appropriate claims made.

Payment Terms:

100% NET 90 DAYS AFTER SHIPMENT DATE.

(Note: Partial billing will be made on partial shipments)

Xylem's payment shall not be dependent upon Purchaser being paid by any third party unless Owner denies payment due to reasons solely attributable to items related to the equipment being provided by

FLYGT.

Schedule:

Please consult your local Flygt branch for submittals and fabrication lead-times.

Back Charges:

Buyer shall not make purchases nor shall Buyer incur any labor that would result in a back charge to

Seller without prior written consent of an authorized employee of seller.

<u>Terms & Conditions</u>: This order is subject to the Standard Terms and Conditions of Sale – Xylem Americas effective on the date the order is accepted which terms are available at http://www.xyleminc.com/en-us/Pages/terms-conditions-of-sale.apx and incorporated herein by reference and made part of the agreement between the parties.

We thank you for your interest in our equipment and look forward to being of service to you in the near future.

IN THE ABSENCE OF A FORMAL ISSUED PURCHASE ORDER, A SIGNED COPY OF THIS PROPOSAL IS ACCEPTABLE AS A BINDING CONTRACT.

Xylem Water Solutions USA, Inc.	Company Name:	
Rul Ru	Address:	
	Accepted By:	
	Print Name:	
	Date:	





Xylem Water Solutions USA Inc. / Flyat Products

15132 Park of Commerce Blvd. Suite 102 Jupiter, Florida 33478

Phone: 561-848-1200 • Fax: 561-848-1299

Xylem's payment shall not be dependent upon Purchaser being paid by any third party unless Owner denies payment due to reasons solely attributable to items related to the equipment being provided by FLYGT.

Schedule:

Please consult your local Flygt branch for submittals and fabrication lead-times.

Back Charges:

Buyer shall not make purchases nor shall Buyer incur any labor that would result in a back charge to

Seller without prior written consent of an authorized employee of Seller.

Terms & Conditions: This order is subject to the Standard Terms and Conditions of Sale - Xylem Americas effective on the date the order is accepted which terms are available at http://www.xyleminc.com/en-us/Pages/terms-conditions-of-sale.aspx and incorporated herein by reference and made part of the agreement between the parties.

We thank you for your interest in our equipment and look forward to being of service to you in the near future.

Please feel free to call if you have any questions or if you require assistance.

Sincerely,

Deborah Scanlon

Inside Sales Engineer

Defut Demlon

Rick Reves

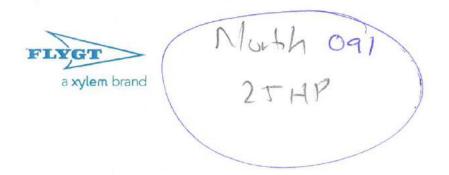
Rul R

Sales Representative

deborah.scanlon@xyleminc.com IN THE ABSENCE OF A FORMAL ISSUED PURCHASE ORDER, A SIGNED COPY OF THIS PROPOSAL IS ACCEPTABLE AS A BINDING CONTRACT.

Kylem Water Solutions USA, Inc.	Company Name:	
	Address:	
	Accepted By:	
	Print Name:	
	Date:	





Xylem Water Solutions USA, Inc. Flygt Products

15132 Park of Commerce Blvd./102 Jupiter, FL 33478 Tel (561) 848-1200 Fax (561) 848-1299

Date: April 16, 2021

To: Ric-Man Construction FL, Inc.

Attention: Michael Fischer

Subject: 15 Ter & Bay 25HP Well Pump

Quote Number: 15TB25WP

We are pleased to offer the following equipment:

Qty Description

- Flygt Model NP-3171.095 LT 10" volute Submersible pump equipped with a 460 Volt / 3 phase / 60 Hz 25 HP 1160 RPM motor, 614 impeller, 1 x 50 Ft. length of submersible cable, FLS leakage detector, volute is prepared for Flush Valve, Explosion proof
- 1 START UP, FLYGT, NO TAX 1-TP MODELS: 3000,7000,8000
- 1 CONNECTION, DISCH 10"X 10" CI
- 1 ½ X 316SS Standard Mounting plates (For 10" Base Elbow)
- 30 CHAIN 5/16" 316SS SWL2750# (1 X 30')
- 1 KIT, CHAIN FITTING 316SS+ FLYGT
- 8 ROD, THREADED 3/4"-10X12" 316SS
- 4 PPAC AC100PLUS ADHESIVE+ ANCHORING SYSTEM
- 50 TS3163 FEET 3"GUIDE RAIL 316SS (2 X 10' + 2 X 15")
- 1 BRACKET, GUIDE BAR UPPER 3" 316
- 1 3" 316SS Intermediate Guide Bar Bracket (10" Riser Pipe)
- 1 HOLDER, CABLE HEAVY DUTY 316SS
- 1 56" X 112" Frame Opening Drainage Well Hatches Galv Steel DT-AHD
- 1 52" X 60" Frame Opening Wet Well Hatch Galv Steel DT-AHD
- 1 36" X 78" Frame Opening Settling Tank Hatch Galv Steel DT-AHD
- 1 Storm Water Manhole Cover USF385 Ring
- 4 SENSOR, ENM-10 0.95-1.1 65'
- Simplex Control Panel 460V 3Ph 25hp NEMA 3R12 316 SS enclosure w/ MultiSmart Primary control & LTU 801 pressure transducer and back up Float control & Gen receptacle
- 1 Motor/ Float Connection Box
- 1 SHIPPING AND HANDLING-NO TAX

Price: \$129,718.50

plus taxes, freight included

Exclusions:

WE DO NOT SUPPLY, PIPING, VALVES, GUIDE BARS, PRESSURE GAUGES, DISCONNECTS, JUNCTION BOXES, KELLUMS GRIPS, SURGE PROTECTION EQUIPMENT, SPARE PARTS, LABOR OR ANY OTHER ITEM NOT SPECIFICALLY LISTED ABOVE.

PLEASE MAKE PURCHASE ORDERS OUT TO: XYLEM WATER SOLUTIONS USA, INC.

Validity:

THIS QUOTE IS VALID FOR NINETY (90) DAYS UNLESS LONGER TIME AGREED TO IN WRITING.





Xylem Water Solutions USA, Inc. Flygt Products

15132 Park of Commerce Blvd./102 Jupiter, FL 33478 Tel (561) 848-1200 Fax (561) 848-1299

_					
т	2	Y	0	C	1

State, local, and other applicable taxes are not included in this quotation.

Freight Terms:

DAP; Jobsite - Full Freight Allowed (per Incoterms 2020)

Shortages:

Xylem will not be responsible for apparent shipment shortages or damages incurred in shipment that are not reported within two weeks from delivery to jobsite. Damages should be noted on the receiving slip and the truck driver advised of the damages. Please contact our office as soon as possible to report damages or shortages so that replacement items can be shipped and the appropriate claims made.

Payment Terms:

100% NET 90 DAYS AFTER SHIPMENT DATE.

(Note: Partial billing will be made on partial shipments)

Xylem's payment shall not be dependent upon Purchaser being paid by any third party unless Owner denies payment due to reasons solely attributable to items related to the equipment being provided by

FLYGT.

Schedule:

Please consult your local Flygt branch for submittals and fabrication lead-times.

Back Charges:

Buyer shall not make purchases nor shall Buyer incur any labor that would result in a back charge to

Seller without prior written consent of an authorized employee of seller.

<u>Terms & Conditions</u>: This order is subject to the Standard Terms and Conditions of Sale – Xylem Americas effective on the date the order is accepted which terms are available at http://www.xyleminc.com/en-us/Pages/terms-conditions-of-sale.apx and incorporated herein by reference and made part of the agreement between the parties.

We thank you for your interest in our equipment and look forward to being of service to you in the near future.

IN THE ABSENCE OF A FORMAL ISSUED PURCHASE ORDER, A SIGNED COPY OF THIS PROPOSAL IS ACCEPTABLE AS A BINDING CONTRACT.

Xylem Water Solutions USA, Inc.	Company Name:	
Rul Ru	Address:	
	Accepted By:	
	Print Name:	
	Date:	





Xylem Water Solutions USA, Inc. Flygt Products

15132 Park of Commerce Blvd./102 Jupiter, FL 33478 Tel (561) 848-1200 Fax (561) 848-1299

Date: April 16, 2021

To:

Ric-Man Construction FL, Inc.

Attention: Michael Fischer

Subject: 15 Ter & West 25HP Well Pump

Quote Number: 15TW25WP

We are pleased to offer the following equipment:

Qty Description

- Flygt Model NP-3171.095 LT 10" volute Submersible pump equipped with a 1 460 Volt / 3 phase / 60 Hz 25 HP 1160 RPM motor, 614 impeller, 1 x 50 Ft. length of submersible cable, FLS leakage detector, volute is prepared for Flush Valve, Explosion proof
- 1 START UP, FLYGT, NO TAX 1-TP MODELS: 3000,7000,8000
- 1 CONNECTION, DISCH 10"X 10" CI
- 1 ½ X 316SS Standard Mounting plates (For 10" Base Elbow)
- 30 CHAIN 5/16" 316SS SWL2750# (1 X 30')
- 1 KIT, CHAIN FITTING 316SS+ FLYGT
- 8 ROD, THREADED 3/4"-10X12" 316SS
- 4 PPAC AC100PLUS ADHESIVE+ ANCHORING SYSTEM
- 50 TS3163 FEET 3"GUIDE RAIL 316SS (2 X 10' + 2 X 15")
- 1 BRACKET, GUIDE BAR UPPER 3" 316
- 1 3" 316SS Intermediate Guide Bar Bracket (10" Riser Pipe)
- 1 HOLDER, CABLE HEAVY DUTY 316SS
- 1 56" X 112" Frame Opening Drainage Well Hatches Galv Steel DT-AHD
- 1 52" X 60" Frame Opening Wet Well Hatch Galv Steel DT-AHD
- 1 36" X 78" Frame Opening Settling Tank Hatch Galv Steel DT-AHD
- 1 Storm Water Manhole Cover USF385 Ring
- 4 SENSOR, ENM-10 0.95-1.1 65'
- 1 Simplex Control Panel 460V 3Ph 25hp NEMA 3R12 316 SS enclosure w/ MultiSmart Primary control & LTU 801 pressure transducer and back up Float control & Gen receptacle
- Motor/ Float Connection Box 1
- 1 SHIPPING AND HANDLING-NO TAX

plus taxes, freight included Price: \$129,718.50

Exclusions:

WE DO NOT SUPPLY, PIPING, VALVES, GUIDE BARS, PRESSURE GAUGES, DISCONNECTS, JUNCTION BOXES, KELLUMS GRIPS, SURGE PROTECTION EQUIPMENT, SPARE PARTS, LABOR OR ANY OTHER

ITEM NOT SPECIFICALLY LISTED ABOVE.

PLEASE MAKE PURCHASE ORDERS OUT TO: XYLEM WATER SOLUTIONS USA, INC.

Validity:

THIS QUOTE IS VALID FOR NINETY (90) DAYS UNLESS LONGER TIME AGREED TO IN WRITING.





Xylem Water Solutions USA, Inc. Flygt Products

15132 Park of Commerce Blvd./102 Jupiter, FL 33478 Tel (561) 848-1200 Fax (561) 848-1299

T	_		-	-	
-1	a	×	ρa	S	7

State, local, and other applicable taxes are not included in this quotation.

Freight Terms:

DAP; Jobsite - Full Freight Allowed (per Incoterms 2020)

Shortages:

Xylem will not be responsible for apparent shipment shortages or damages incurred in shipment that are not reported within two weeks from delivery to jobsite. Damages should be noted on the receiving slip and the truck driver advised of the damages. Please contact our office as soon as possible to report damages or shortages so that replacement items can be shipped and the appropriate claims made.

Payment Terms:

100% NET 90 DAYS AFTER SHIPMENT DATE.

(Note: Partial billing will be made on partial shipments)

Xylem's payment shall not be dependent upon Purchaser being paid by any third party unless Owner denies payment due to reasons solely attributable to items related to the equipment being provided by FLYGT.

Schedule:

Please consult your local Flygt branch for submittals and fabrication lead-times.

Back Charges:

Buyer shall not make purchases nor shall Buyer incur any labor that would result in a back charge to

Seller without prior written consent of an authorized employee of seller.

<u>Terms & Conditions</u>: This order is subject to the Standard Terms and Conditions of Sale – Xylem Americas effective on the date the order is accepted which terms are available at http://www.xyleminc.com/en-us/Pages/terms-conditions-of-sale.apx and incorporated herein by reference and made part of the agreement between the parties.

We thank you for your interest in our equipment and look forward to being of service to you in the near future.

IN THE ABSENCE OF A FORMAL ISSUED PURCHASE ORDER, A SIGNED COPY OF THIS PROPOSAL IS ACCEPTABLE AS A BINDING CONTRACT.

Xylem Water Solutions USA, Inc.	Company Name:	
Rul Ru	Address:	
	Accepted By:	
	Print Name:	
	Date:	





Xylem Water Solutions USA, Inc. Flygt Products

15132 Park of Commerce Blvd./102 Jupiter, FL 33478 Tel (561) 848-1200 Fax (561) 848-1299

Date: April 16, 2021

To:

Ric-Man Construction FL, Inc.

Attention: Michael Fischer

Subject: 16 St 25HP Well Pump Quote Number: 16ST25WP

We are pleased to offer the following equipment:

Qty Description

- Flygt Model NP-3171.095 LT 10" volute Submersible pump equipped with a 1 460 Volt / 3 phase / 60 Hz 25 HP 1160 RPM motor, 614 impeller, 1 x 50 Ft. length of submersible cable, FLS leakage detector, volute is prepared for Flush Valve, Explosion proof
- 1 START UP, FLYGT, NO TAX 1-TP MODELS: 3000,7000,8000
- CONNECTION, DISCH 10"X 10" CI 1
- 1 ½ X 316SS Standard Mounting plates (For 10" Base Elbow)
- 30 CHAIN 5/16" 316SS SWL2750# (1 X 30')
- 1 KIT, CHAIN FITTING 316SS+ FLYGT
- 8 ROD, THREADED 3/4"-10X12" 316SS
- 4 PPAC AC100PLUS ADHESIVE+ ANCHORING SYSTEM
- 50 TS3163 FEET 3"GUIDE RAIL 316SS (2 X 10' + 2 X 15")
- 1 BRACKET, GUIDE BAR UPPER 3" 316
- 1 3" 316SS Intermediate Guide Bar Bracket (10" Riser Pipe)
- 1 HOLDER, CABLE HEAVY DUTY 316SS
- 1 56" X 112" Frame Opening Drainage Well Hatches Galv Steel DT-AHD
- 1 52" X 60" Frame Opening Wet Well Hatch Galv Steel DT-AHD
- 1 36" X 78" Frame Opening Settling Tank Hatch Galv Steel DT-AHD
- 1 Storm Water Manhole Cover USF385 Ring
- 4 SENSOR, ENM-10 0.95-1.1 65'
- 1 Simplex Control Panel 460V 3Ph 25hp NEMA 3R12 316 SS enclosure w/ MultiSmart Primary control & LTU 801 pressure transducer and back up Float control & Gen receptacle
- 1 Motor/ Float Connection Box
- 1 SHIPPING AND HANDLING-NO TAX

Price: \$129,718.50 plus taxes, freight included

Exclusions:

WE DO NOT SUPPLY, PIPING, VALVES, GUIDE BARS, PRESSURE GAUGES, DISCONNECTS, JUNCTION BOXES, KELLUMS GRIPS, SURGE PROTECTION EQUIPMENT, SPARE PARTS, LABOR OR ANY OTHER

ITEM NOT SPECIFICALLY LISTED ABOVE.

PLEASE MAKE PURCHASE ORDERS OUT TO: XYLEM WATER SOLUTIONS USA, INC.

Validity:

THIS QUOTE IS VALID FOR NINETY (90) DAYS UNLESS LONGER TIME AGREED TO IN WRITING.





Xylem Water Solutions USA, Inc. Flygt Products

15132 Park of Commerce Blvd./102 Jupiter, FL 33478 Tel (561) 848-1200 Fax (561) 848-1299

_					
т	2	¥	0	C	٠

State, local, and other applicable taxes are not included in this quotation.

Freight Terms:

DAP; Jobsite - Full Freight Allowed (per Incoterms 2020)

Shortages:

Xylem will not be responsible for apparent shipment shortages or damages incurred in shipment that are not reported within two weeks from delivery to jobsite. Damages should be noted on the receiving slip and the truck driver advised of the damages. Please contact our office as soon as possible to report damages or shortages so that replacement items can be shipped and the appropriate claims made.

Payment Terms: 100% NET 90 DAYS AFTER SHIPMENT DATE.

(Note: Partial billing will be made on partial shipments)

Xylem's payment shall not be dependent upon Purchaser being paid by any third party unless Owner denies payment due to reasons solely attributable to items related to the equipment being provided by

FLYGT.

Schedule:

Please consult your local Flygt branch for submittals and fabrication lead-times.

Back Charges:

Buyer shall not make purchases nor shall Buyer incur any labor that would result in a back charge to

Seller without prior written consent of an authorized employee of seller.

Terms & Conditions: This order is subject to the Standard Terms and Conditions of Sale - Xylem Americas effective on the date the order is accepted which terms are available at http://www.xyleminc.com/en-us/Pages/terms-conditions-of-sale.apx and incorporated herein by reference and made part of the agreement between the parties.

We thank you for your interest in our equipment and look forward to being of service to you in the near future.

IN THE ABSENCE OF A FORMAL ISSUED PURCHASE ORDER, A SIGNED COPY OF THIS PROPOSAL IS ACCEPTABLE AS A BINDING CONTRACT.

Xylem Water Solutions USA, Inc.	Company Name:	
Rul Ru	Address:	
	Accepted By:	
	Print Name:	
	Date:	





Xylem Water Solutions USA, Inc. Flygt Products

15132 Park of Commerce Blvd./102 Jupiter, FL 33478 Tel (561) 848-1200 Fax (561) 848-1299

Date: April 16, 2021

To:

Ric-Man Construction FL, Inc.

Subject: Lincoln & Bay 25HP Well Pump

Attention: Michael Fischer

on. Wichael Floorier

Quote Number: LB25WP

We are pleased to offer the following equipment:

Qty Description

- Flygt Model NP-3171.095 LT 10" volute Submersible pump equipped with a 460 Volt / 3 phase / 60 Hz 25 HP 1160 RPM motor, 614 impeller, 1 x 50 Ft. length of submersible cable, FLS leakage detector, volute is prepared for Flush Valve, Explosion proof
- 1 START UP, FLYGT, NO TAX 1-TP MODELS: 3000,7000,8000
- 1 CONNECTION, DISCH 10"X 10" CI
- 1 ½ X 316SS Standard Mounting plates (For 10" Base Elbow)
- 30 CHAIN 5/16" 316SS SWL2750# (1 X 30')
- 1 KIT, CHAIN FITTING 316SS+ FLYGT
- 8 ROD, THREADED 3/4"-10X12" 316SS
- 4 PPAC AC100PLUS ADHESIVE+ ANCHORING SYSTEM
- 50 TS3163 FEET 3"GUIDE RAIL 316SS (2 X 10' + 2 X 15")
- 1 BRACKET, GUIDE BAR UPPER 3" 316
- 3" 316SS Intermediate Guide Bar Bracket (10" Riser Pipe)
- 1 HOLDER, CABLE HEAVY DUTY 316SS
- 1 56" X 112" Frame Opening Drainage Well Hatches Galv Steel DT-AHD
- 1 52" X 60" Frame Opening Wet Well Hatch Galv Steel DT-AHD
- 1 36" X 78" Frame Opening Settling Tank Hatch Galv Steel DT-AHD
- 1 Storm Water Manhole Cover USF385 Ring
- 4 SENSOR, ENM-10 0.95-1.165'
- Simplex Control Panel 460V 3Ph 25hp NEMA 3R12 316 SS enclosure w/ MultiSmart Primary control & LTU 801 pressure transducer and back up Float control & Gen receptacle
- 1 Motor/ Float Connection Box
- 1 SHIPPING AND HANDLING-NO TAX

Price: \$129,718.50

_plus taxes, freight included

Exclusions:

WE DO NOT SUPPLY, PIPING, VALVES, GUIDE BARS, PRESSURE GAUGES, DISCONNECTS, JUNCTION BOXES, KELLUMS GRIPS, SURGE PROTECTION EQUIPMENT, SPARE PARTS, LABOR OR ANY OTHER

ITEM NOT SPECIFICALLY LISTED ABOVE.

PLEASE MAKE PURCHASE ORDERS OUT TO: XYLEM WATER SOLUTIONS USA, INC.

Validity:

THIS QUOTE IS VALID FOR NINETY (90) DAYS UNLESS LONGER TIME AGREED TO IN WRITING.





Xylem Water Solutions USA, Inc. **Flyat Products**

15132 Park of Commerce Blvd./102 Jupiter, FL 33478 Tel (561) 848-1200 Fax (561) 848-1299

т	2	Y	0	8

State, local, and other applicable taxes are not included in this quotation.

Freight Terms:

DAP; Jobsite - Full Freight Allowed (per Incoterms 2020)

Shortages:

Xylem will not be responsible for apparent shipment shortages or damages incurred in shipment that are not reported within two weeks from delivery to jobsite. Damages should be noted on the receiving slip and the truck driver advised of the damages. Please contact our office as soon as possible to report damages or shortages so that replacement items can be shipped and the appropriate claims

made.

Payment Terms: 100% NET 90 DAYS AFTER SHIPMENT DATE.

(Note: Partial billing will be made on partial shipments)

Xylem's payment shall not be dependent upon Purchaser being paid by any third party unless Owner denies payment due to reasons solely attributable to items related to the equipment being provided by

FLYGT.

Schedule:

Please consult your local Flygt branch for submittals and fabrication lead-times.

Back Charges:

Buyer shall not make purchases nor shall Buyer incur any labor that would result in a back charge to

Seller without prior written consent of an authorized employee of seller.

Terms & Conditions: This order is subject to the Standard Terms and Conditions of Sale - Xylem Americas effective on the date the order is accepted which terms are available at http://www.xyleminc.com/en-us/Pages/terms-conditions-of-sale.apx and incorporated herein by reference and made part of the agreement between the parties.

We thank you for your interest in our equipment and look forward to being of service to you in the near future.

IN THE ABSENCE OF A FORMAL ISSUED PURCHASE ORDER, A SIGNED COPY OF THIS PROPOSAL IS ACCEPTABLE AS A BINDING CONTRACT.

Xylem Water Solutions USA, Inc.	Company Name:	
Row Row	Address:	
	Accepted By:	
	Print Name:	

Date: _





Xylem Water Solutions USA, Inc. Flygt Products

15132 Park of Commerce Blvd./102 Jupiter, FL 33478 Tel (561) 848-1200 Fax (561) 848-1299

Date: April 16, 2021

To:

Ric-Man Construction FL, Inc.

Attention: Michael Fischer

Subject: Lincoln & West 25HP Well Pump

Quote Number: LW25WP

We are pleased to offer the following equipment:

Qty Description

- Flygt Model NP-3171.095 LT 10" volute Submersible pump equipped with a 1 460 Volt / 3 phase / 60 Hz 25 HP 1160 RPM motor, 614 impeller, 1 x 50 Ft. length of submersible cable, FLS leakage detector, volute is prepared for Flush Valve, Explosion proof
- 1 START UP, FLYGT, NO TAX 1-TP MODELS: 3000,7000,8000
- CONNECTION, DISCH 10"X 10" CI 1
- ½ X 316SS Standard Mounting plates (For 10" Base Elbow) 1
- CHAIN 5/16" 316SS SWL2750# (1 X 30') 30
- 1 KIT, CHAIN FITTING 316SS+ FLYGT
- ROD, THREADED 3/4"-10X12" 316SS 8
- PPAC AC100PLUS ADHESIVE+ ANCHORING SYSTEM 4
- TS3163 FEET 3"GUIDE RAIL 316SS (2 X 10' + 2 X 15") 50
- BRACKET, GUIDE BAR UPPER 3" 316 1
- 1 3" 316SS Intermediate Guide Bar Bracket (10" Riser Pipe)
- 1 HOLDER, CABLE HEAVY DUTY 316SS
- 56" X 112" Frame Opening Drainage Well Hatches Galv Steel DT-AHD 1
- 52" X 60" Frame Opening Wet Well Hatch Galv Steel DT-AHD 1
- 36" X 78" Frame Opening Settling Tank Hatch Galv Steel DT-AHD 1
- 1 Storm Water Manhole Cover USF385 Ring
- SENSOR, ENM-10 0.95-1.1 65' 4
- 1 Simplex Control Panel 460V 3Ph 25hp NEMA 3R12 316 SS enclosure w/ MultiSmart Primary control & LTU 801 pressure transducer and back up Float control & Gen receptacle
- Motor/ Float Connection Box 1
- SHIPPING AND HANDLING-NO TAX 1

Price: \$129,718.50

plus taxes, freight included

Exclusions:

WE DO NOT SUPPLY, PIPING, VALVES, GUIDE BARS, PRESSURE GAUGES, DISCONNECTS, JUNCTION BOXES, KELLUMS GRIPS, SURGE PROTECTION EQUIPMENT, SPARE PARTS, LABOR OR ANY OTHER

ITEM NOT SPECIFICALLY LISTED ABOVE.

PLEASE MAKE PURCHASE ORDERS OUT TO: XYLEM WATER SOLUTIONS USA, INC.

Validity:

THIS QUOTE IS VALID FOR NINETY (90) DAYS UNLESS LONGER TIME AGREED TO IN WRITING.





Xylem Water Solutions USA, Inc. Flygt Products

15132 Park of Commerce Blvd./102 Jupiter, FL 33478 Tel (561) 848-1200 Fax (561) 848-1299

т	-		-	-	١
	a	×	μ	9	

State, local, and other applicable taxes are not included in this quotation.

Freight Terms:

DAP; Jobsite - Full Freight Allowed (per Incoterms 2020)

Shortages:

Xylem will not be responsible for apparent shipment shortages or damages incurred in shipment that are not reported within two weeks from delivery to jobsite. Damages should be noted on the receiving slip and the truck driver advised of the damages. Please contact our office as soon as possible to report damages or shortages so that replacement items can be shipped and the appropriate claims

made.

Payment Terms:

100% NET 90 DAYS AFTER SHIPMENT DATE.

(Note: Partial billing will be made on partial shipments)

Xylem's payment shall not be dependent upon Purchaser being paid by any third party unless Owner denies payment due to reasons solely attributable to items related to the equipment being provided by

FLYGT.

Schedule:

Please consult your local Flygt branch for submittals and fabrication lead-times.

Back Charges:

Buyer shall not make purchases nor shall Buyer incur any labor that would result in a back charge to

Seller without prior written consent of an authorized employee of seller.

Terms & Conditions: This order is subject to the Standard Terms and Conditions of Sale – Xylem Americas effective on the date the order is accepted which terms are available at http://www.xyleminc.com/en-us/Pages/terms-conditions-of-sale.apx and incorporated herein by reference and made part of the agreement between the parties.

We thank you for your interest in our equipment and look forward to being of service to you in the near future.

IN THE ABSENCE OF A FORMAL ISSUED PURCHASE ORDER, A SIGNED COPY OF THIS PROPOSAL IS ACCEPTABLE AS A BINDING CONTRACT.

Xylem Water Solutions USA, Inc.	Company Name:	
Row Row	Address:	
	Accepted By:	
	Print Name:	
	Date:	





234 NE 3rd Street Suite 1101 Miami, FL 33132 (305) 992-5415 Office www.AtlanticCoastDrilling.com

April 15, 2021

WELL PROPOSAL

Attn: To: Rafael Vega

RIC-MAN Construction

3100 SW 15th Street, Deerfield Beach, Fl 33442

954-426-1221

Job Name:

Job Address:

Location: along West Ave. from Lincoln Rd.

down to 8th street. Miami Beach, FL

Temp. dewatering well

We hereby propose to furnish all necessary materials and labor- complete in accordance with Florida Department of Environmental Protection (FDEP) requirements and South Florida building codes as follows:

Installation of:

Fifteen (15) - 24" dia. Temp. Dewatering Well (class V) at \$23,000.00 (Each)

Up to 100' feet, additional depth at \$195.00 per foot.

TOTAL: \$345,000.00

Price Includes:

- 1. Mobilization of drill rig equipment, tools, & labor. Two (2) Man Drilling Crew.
- 2. Containment of Development water
- 3. Made in America Steel Pipe (New, No Mids, No Mill SPECS.)
- 4. Each well will be capped with a lid.
- 5. Well Completion reports.
- 6. Specific capacity drawdown test concurrent with well development.

Exclusions:

- 1). Structure over well, manhole ring and covers, lateral piping to the well, & pumps.
- 2). Civil plans, Site access, MOT & locations / well layout should be completed by a surveyor.
- 3). Underground clearances, aside from 811 Call Sunshine.
- 4). Site restorations, disposition of well cuttings.
- 5). Payment performance bonds.
- 6). Permit Fees, FDEP, County & City well construction permits.
- 7). Reasonable Assurance Report by PG for FDEP review.

Note: Atlantic Coast Drilling cannot guarantee Well Capacity

This proposal is good for 30 days - These prices are For Your Eyes Only Payment to be made upon Requisition - Interest accrues @ 1 ½% monthly on unpaid balance

Acceptance of Proposal

The above prices, specifications and conditions are satisfactory; payment will be made as outlined above.

Atlantic Coast Drilling, Inc.

Marcos Aleman - President

Authorized Signature:	Authorized		
Print & Date:	Signature:	Marcos Aleman	
	Date:	04/15/2021	

Terms and Conditions: All work to be completed in workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra cost will be executed only upon written orders, and will become extra charge over and above this estimate. Client agrees to pay all collection costs on all unpaid balances. Atlantic Coast Drilling Inc. shall not be held responsible for capacity of well due to geographic formation, ACD shall not be held responsible damage to underground utilities or structures not identified prior to work commencement. ACD cannot be held responsible for delays caused by bad weather, supplier shorts, strikes, or acts of God. This contract may be terminated at the option of ACD for any reason.

5		4 19 2		8.60	6.04	7.52	6.94	00.6	03	-	02.6
Pump Install Cost		\$34,000.00 \$131.200.00						1	922493	\$34.000.00	\$34,000.00
Wire, Conduit install total Pump		\$97,200.00	\$12,994.20	\$28,938.60	\$6,386.04	\$11,387.52	\$8,136.94	\$19,449.00		\$7,574.40	\$8,629.20
	North	Lin BR	Lin Wst	16th Bay rd	16th Wst	15th Terr - BR	15th Terr - Wst	14th Crt	South	13th St	12th St

61



Commodity Coverage - Metals

Steel Price Forecast and Market Outlook

Steel price forecast for 2021

The spike in steel prices is extraordinary. Many products are up 50-100% since late summer 2020, with the bulk of the increases occurring in November and December 2020. Sheet price in the United States has more than doubled since mid-2020 and just set a new all-time-record high.

Looking at some global prices, Chinese hot-rolled coil (HRC) averaged \$465 per metric ton in the fourth quarter of 2019 (pre-COVID-19). It dropped to \$440 for the second quarter and briefly approached \$420. By late December 2020, Chinese HRC price reached \$775 (an 85% increase) but quickly retreated 10%. European HRC was at \$506 in the fourth quarter of 2019, stayed below \$450 over much of the summer in 2020, then shot up to \$840 in January 2021. This is an increase of more than 90%. The United States was at \$505 in August; now in mid-January, there are unofficial reports at \$1,240, a 146% increase.

Learn more, visit Commodity Coverage - Metals

Prices are spiking to unsustainable peaks in 2021

Steel prices will spike in the first quarter but following months. All products are rising rapidly construction and industrial recovery from COVIL

Welcome! How can we help you today?

outpaced sluggish capacity restarts, so supply is temporarily tight.

Mills have restarted in most regions, so shortages will not last and prices will retreat quickly over the second quarter.

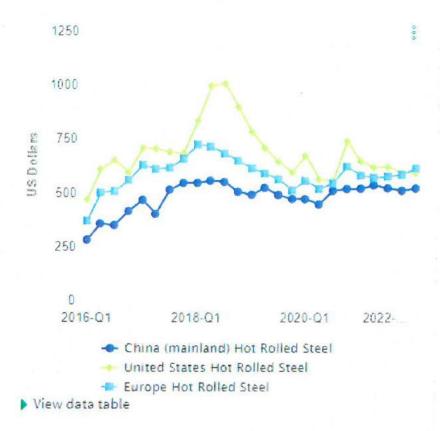
Sheet prices are spiking in the United States at one of the fastest rates in history, despite ample (but idle) capacity. Despite the high prices, buyers should worry more about supply than price for the first quarter of 2021, but should avoid locking prices for the remainder of the year. Other products and regions have high prices for the first quarter of 2021 but are not experiencing shortages.

- The buying advice for steel is "wait." Prices spiked in the fourth quarter of 2020 and are carrying over into January. Prices are above fundamentals and will fall back in the second and third quarters. The exception is sheet, which is on allocation in the United States. Ensuring availability is more of a concern than price. Furnace restarts will alleviate supply and then price by the second quarter. Lead times are long in Europe but there is no allocation so far.
- Downside risk is high if the second wave of COVID-19 grows worse. However, if manufacturing and construction are idled, then steel demand and prices will fall.
- Upside risk from Australian cyclones is worth watching. Ore mines are at full capacity, so any disruption would be magnified. If cyclones disrupt delivery, ore would spike and with it, steel prices.

Bottom line: Steel forecast for 2021

We continue to hold that steel prices will peak globally in the first quarter of 2021 and then retreat. Sheet is on allocation in the United States and tight in Europe, so work to ensure supply even if you have to pay too much in first quarter 2021.

Pricing Analysis Chart



Experts



Mark Ulmer

The group specializes in monitoring...

Coal, Metals and Hi Oil & Gas Upstream



Laura Hodges

Ms. Hodges is responsible for the manageme...

Country / Territory



John Anton

Mr. Anton has expertise in the ferrous metals...

Coal, Metals and Mi

Commodity Price F



Amanda Eglinton

Ms. Eglinton has been a part of the Pricing an...

Commodities

Sourcing and Supp

VIEW PROFILE VIEW PROFILE

PROFILE

Welcome! How can we help you today?



Commodity Price Watch Monthly



15 Apr 2020 - Pricing and Purchasing | Scheduled Update

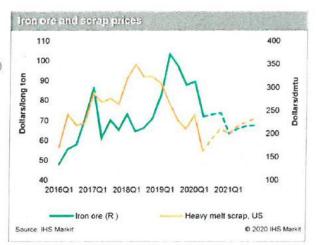
Commodity Price Monthly

Steel

Change from previous forecast: The forecast is lowered with only slight adjustments across products.

The general trend: Steel prices fall in the second quarter of 2020 but do not reach bottom until the third quarter. Prices challenge their 2015–16 lows but generally do not fall quite so far because input costs are now higher. Mills lose money nonetheless, so prices start to recover late in 2020 only because firms are forced to idle capacity.

Risk: Risk aligns on the downside and centers on the possibility that the global pandemic hits economies outside mainland China harder. The most immediate risk is to delivery, not price. Mills have closed in many countries, so alternate sources may become

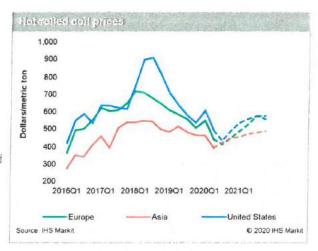


IHS Markit 2020

No portion of this report may be reproduced, reused, or otherwise distributed in any form without prior written consent, with the exception of any internal client distribution as may be permitted in the license agreement between client and IHS. Content reproduced or redistributed with IHS permission must display IHS legal notices and attributions of authorship. The information contained herein is from sources considered reliable but its accuracy and completeness are not warranted, not are the opinions and analyses which are based upon it, and to the extent permitted by law, IHS shall not be liable for any errors or onlissions or any loss, damage or expense incurred by reliance on information or any statement contained herein.

mandatory. The market is mentioning upside risk that we acknowledge but believe is overblown. The fear is that deep production cuts will set up shortages once demand comes roaring back. We do not think demand roars back, but if it does then the risk is real.

Iron ore: Iron ore prices have-eased from March to April, falling around \$5/metric ton (5.6%) as demand concerns finally hit the market. Prices for iron ore have outperformed many other raw materials in 2020, however, owing to a combination of supply and demand factors. On the supply side, iron ore shipments through the first quarter, from both Australia and Brazil, have fallen 9.9% year on year (y/y) because of strong seasonal rains. As a result, iron ore inventories at Chinese ports have fallen to around 115 million metric tons (MMt), just above the 2019 low of 114 MMt at the height of the iron ore supply crunch last year. In terms of



demand, we saw the temporary shutdown of Chinese manufacturing, but blast furnace capacity utilization in mainland China fell only 7 percentage points to 73% at the lowest point of the shutdown. As mainland China opened up again through March, iron ore demand has increased with blast furnace utilization returning to 77% in mid-April.

Shipments and domestic iron ore production are improving with the second quarter, typically the year's strongest, which has helped pull prices down to around \$82/metric ton and should pull prices lower. With the rest of the world's steel production at a standstill in the second quarter, we are forecasting prices to fall to \$72/metric ton. Steady Chinese steel production, however, will prevent prices crashing to 2016 levels as we have seen in other commodities.

Scrap: Scrap prices have tanked over the past month as the steel industries throughout the West shut down. Turkish prices for heavy melt scrap (HMS) 80:20, the most heavily traded grade, fell 32.5% to \$210/metric ton before rebounding a little to \$238 on opportunistic buying. The Turkish response to COVID-19 has been less draconian and thus steel plants are still operating. Elsewhere, scrap prices look much worse. US buying has dried up so much that quoted prices on actual transactions are hard to find. There are indications that prices have fallen to \$140 or lower. These prices are designed to be so low that people stop bringing scrap to yards because no one is buying.

Electric arc mills in Europe and the US are either closed or set to close until social isolation measures are lifted. This creates an interesting dynamic in scrap markets because a few mills will continue to operate. These mills will continue to consume inventory at a time when little scrap generation in taking place. Manufacturing is no longer producing bushelling scrap, demolition has ceased, reducing heavy melt supply and a financial crisis will discourage consumers from trading in old vehicles to buy a new one, thereby reducing shredded scrap supply. This may provide some support to prices during this crisis. We are however forecasting demand to dominate and forecast prices of US HMS to average \$163/metric ton in the second quarter with US bushel prices to fall to \$212/metric ton, \$2 above our US shredded scrap forecast.

Coking coal: Prices have fallen as expected moving into April, as COVID-19 caused the shutdown of the majority of blast furnace capacity in Europe, Brazil, North America, and now, more critically for coking coal, India. There is also concern in the market that the Chinese fiscal stimulus will not drive growth in Chinese steel production over the 1 billion metric tons produced in 2019. We are forecasting imports into mainland China to fall by 6 MMt y/y in 2020 and as Indian steel is shut down, a similar volume will be lost there too. Coking coal production has in fact suffered in the first quarter, falling 4.8% y/y, which explained the rally in prices above \$160. Supply is now improving again which, combined with a near-shutdown of Western demand at least in the second quarter, has caused prices to fall to around \$132/metric ton for benchmark coking coal. We are forecasting prices to average \$124/metric ton in the second quarter before rallying again to around \$147 in the third quarter as more steel capacity comes back online.

Sheet: Sheet and plate have almost the same outlook. Sheet prices are dropping, and most regions have more downside to go. Association of Southeast Asian Nations (ASEAN) prices are down to \$380/metric ton, and it is likely mainland China will hit the same lows. We expect mills to sell sheet below cost in every region but the United States, and even profits



there will be very low. Because of the losses, an effective floor is placed under sheet. Otherwise we would likely fall to near late 2015 levels. Mainland China was hit first with the COVID-19 outbreak and so has been the first to recover. We thus expect a rapid rebound in mainland China, but a slow recovery to prices and production in almost every other region, including Europe and the United States.

Demand for both sheet and plate will be impacted severely by the crash in petroleum prices. New drilling will be curtailed and possibly face a temporary halt. Pipeline projects have longer construction duration, so should not be halted for a (hopefully) temporary disruption. However, as energy company cash flow becomes strained, there could be slowdowns even for long-term projects. Sheet suffers additional harm from hits to consumer demand, which may be the last sector to recover. Shipments to automotive and appliances will likely be weak for all of 2020, although rising off the floor by the fourth quarter.

Plate: Prices will drop sharply, limited only by cost of production. Like sheet, we expect mills to sell below cost in every region but the United States, and even there profits will be very low. Because of the losses there is an effective price floor. Otherwise we would likely fall to near late 2015 levels. Mainland China, hit first with the COVID-10 outbreak, has been the first to recover. We thus expect a fairly rapid rebound in mainland China but a slow recovery to prices and production in almost every other region, including Europe and the United States.

Demand for both sheet and plate will be impacted severely by the crash in petroleum prices. New drilling will be curtailed and possibly temporarily stop. Pipeline projects have a longer construction period, so should not be halted for a (hopefully) temporary disruption. However, as more energy companies' cash flow becomes strained there could be slowdowns even for long-term projects. Plate is stronger than sheet in that construction is a major end market, so there should be benefit as government stimulus programs are instituted.

Bar and rod: Bar and rod prices are weak but will fall even more as demand contracts because of COVID-19. Mainland China will hit bottom in the second quarter, but the rest of the world will not until the third quarter. Prices will be the lowest since late 2015/early 2016 and will be downside limited only because mills will be losing money and so will be forced to cut output. Grades that serve construction will recover more strongly than grades serving machinery and consumer durables. Government stimulus normally goes toward construction, so rebar will benefit more than merchant bar.

Steel pipe: The outlook for pipe prices has been revised lower on falling steel input costs and much weaker oil and gas sector demand. We had previously anticipated pipe prices were at or near bottom early in the first quarter, but now forecast prices to move lower over the second and third quarters as competition picks up among suppliers and buyers benefit from improved leverage in the weaker demand environment. At this time, we do not expect pipe prices to fall to the lows experienced during the 2015/16 downturn; however, pricing risk is squarely on the downside over the next two quarters.

IHS Markit steel price forecast, April 2020

Forecast

change¹

2019Q4 2020Q1 2020Q2 2020Q3 2020Q4 2021Q1 2021Q2 2021Q3 2021Q4 2020 2021

Steel raw materials prices

Iron ore, S/dmtu

1 busheling scrap US, \$/long ton

Shredded scrap US, \$/long ton

Shredded scrap Europe, \$/metric ton

Heavy melt scrap US, \$/long ton

Heavy melt scrap Europe, \$/metric

ton

IHS Markit steel price forecast, April 2020

Forecast

change*

2019Q4 2020Q1 2020Q2 2020Q3 2020Q4 2021Q1 2021Q2 2021Q3 2021Q4 2020 2021

Heavy melt steel scrap China,

S/metric ton

Metallurgical coal Australia, \$/metric

ton

Metallurgical coal China, \$/metric ton

Steel flat product prices

Hot-rolled coil US, \$/short ton

Hot-rolled coil Europe, \$/metric ton

Hot-rolled coil China, \$/metric ton

Cold-rolled coil US, \$/short ton

Cold-rolled coil Europe, S/metric ton

Cold-rolled coil China, S/metric ton

Galvanized sheet US, \$/short ton

Plate, cut to length US, \$/short ton

HDG steel Europe, \$/metric ton

HDG steel China, \$/metric ton

Discrete plate, Europe, \$/metric ton

Discrete plate, Asia, S/metric ton

Steel long product prices

Merchant bar US, \$/short ton

Merchant bar Europe, \$/metric ton

Merchant bar Asia, \$/metric ton

Special quality bar US, \$/short ton

Rebar US, \$/short ton

Rebar Europe, \$/metric ton

Rebar China, S/metric ton

Wire rod US, \$/short ton

Wire rod Europe, \$/metric ton

Wire rod (mesh quality) China,

\$/metric ton

Structurals US, \$/short ton

Structural steel Europe, \$/metric ton

Structural steel Asia, \$/metric ton

Source: IHS Markit

© 2020 IHS Markit

Nonferrous metals

^{*} Up and down arrow signals if the price forecast is more than 5% higher or lower than the previous forecast. Please note that the forecast is available for download in the Costs and Prices Research section of Connect. Data presented in the Commodity Price Watch are often interim updates to our forecast, and as such may differ from the forecast in the spreadsheet tables.

^{**}Historical price sources: Argus

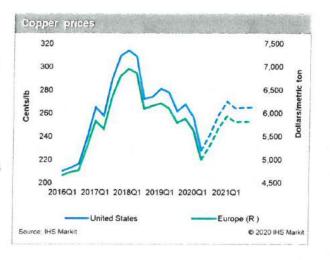
Changes to the forecast: The base metal forecasts have been lowered over the near term to reflect the rapid deterioration in conditions since January. All prices hit a low in the second quarter; all but copper are lower in the first quarter of 2021 than the average price recorded in the first quarter of 2020.

Aluminum: Lack of any meaningful production cuts to date make aluminum look the weakest of all base metals through 2021. London Metal Exchange (LME) prices have fallen under \$1,500 per metric ton, more than \$200 below our estimate of average smelter operating costs and therefore unsustainable in our view. This said, primary smelter production has not seen any sizable cuts since January. We expect announcements shortly.

There are signs that prices may finally be nearing a bottom. Futures prices show a widening contango, which makes carry trades (buying spot metal and selling it forward) increasingly attractive, especially with low interest rates minimizing financing costs. Scrap discounts are also narrowing as a lack of scrap generation and scrap collection tightens conditions, which may soon prompt secondary producers into the market for primary metal. The bottom line, however, is that while we believe the downside is limited, aluminum looks well supplied with only a slow rise in prices over the near term. We see little risk in a buy as needed strategy over the next quarter.

Copper: The market will record a surplus in 2020 because of plunging consumption in the first half of the year. While this shift in the market has undercut prices, our caution is that a quick supply-side reaction on top of an existing weakness in mine production sets prices up for a rebound in the second half of the year once the global economy reboots.





Even though LME prices recently dropped as low as \$4,618 per metric ton in March, based on mine operating costs, we believe a sustained floor is probably closer to \$4,700 to \$4,800 per metric ton. Prices have recently moved closer to \$5,000 per metric ton on the wave of temporary mine and port closures, which are disrupting the flow of concentrates into the market. Visible inventory has risen since January but is still lower than it was at this time last year. Even modest physical consumption growth, if accompanied by a degree of inventory restocking later this year, will tighten the market. Our bottom line is that we see prices above \$5,600 by the end of this year and above \$5,800 per metric ton in early 2021. Current prices look attractive.

Nickel: The forecast for prices in the second quarter of 2020 has been lowered to reflect recent softness. However, we believe prices have already bottomed out and will slowly move higher over the second quarter and second half of 2020 as Chinese demand improves and production is curtailed. Prices fell to nearly \$11,000/metric ton in late March, but stabilized and inched higher in early April. While upside risk to prices is limited given the current weakness in global demand, supply disruptions are large and mounting. Indonesia, the largest source of nickel ore to mainland China, implemented a ban on ore exports that took effect in January 2020, and other key producing countries are temporarily closing mines and facing other supply disruptions due to the COVID-19 outbreak, helping to put a floor under prices above the level reached during the 2015/16 market downturn. Tightening supply and slowly improving demand in mainland China will cause prices to move higher over the second quarter and the second half of the year. Our view is that prices below \$12,000/metric ton on the LME present a good buying opportunity.

Zinc: Prices under \$2,000/metric ton are buying opportunity. While zinc demand will decline in the coming months, supply-side disruptions limit further price declines in the second quarter. With Peru now implementing martial law to

contain the spread of COVID-19, mine production from a country representing about 10% of global supply remains challenged in 2020. Visible inventory on the London and Shanghai exchanges started April at 207,000 metric tons, which is well below the historical five-year average of 425,000 metric tons. The coverage ratio (inventory expressed in weeks of consumption) currently stands at 2.8 weeks in December, well below the five-year average of 4.6 weeks. Low inventory will continue to create upside price risk through year-end. Global consumption registered 1.6% y/y growth in January, its sixth consecutive monthly increase. The pace will decelerate in the coming months and IHS Markit expects near-zero growth in apparent global consumption for 2020. Prices average \$1,819/metric ton in the second half of 2020 with potential delays, mine closures, and slower Chinese refined zinc capacity restarts being an upside risk to the near-term outlook.

IHS Markit nonferrous price forecast, April 2020

201904

Forecast change*

2020Q1 2020Q2 2020Q3 2020Q4 2021Q1 2021Q2 2021Q3 2021Q4 2020 2021

Aluminum

Aluminum Midwest US Delivery,

cents/lb

Aluminum LME, \$/metric ton

Aluminum SHFE, yuan/metric ton

Copper

Copper COMEX, cents/lb

Copper LME, \$/metric ton

Copper SHFE, yuan/metric ton

Zinc

Zinc Special High Grade, cents/lb

Zinc LME, \$/metric ton

Zinc SHFE, yuan/metric ton

Other

Nickel LME, S/metric ton

Nickel SHFE spot price, yuan/metric

ton

Tin LME, \$/metric ton

Lead LME, \$/metric ton

Stainless steel

Stainless sheet (304) U.S. S/short ton

Stainless sheet (304) Europe.

\$/metric ton

Stainless sheet (304) China, S/metric

ton

Ferro-alloys

Molybdenum, United States, S/Ib

Charge chrome, Europe, \$/lb

Cobalt, United States S/lb

Source: IHS Markit

0

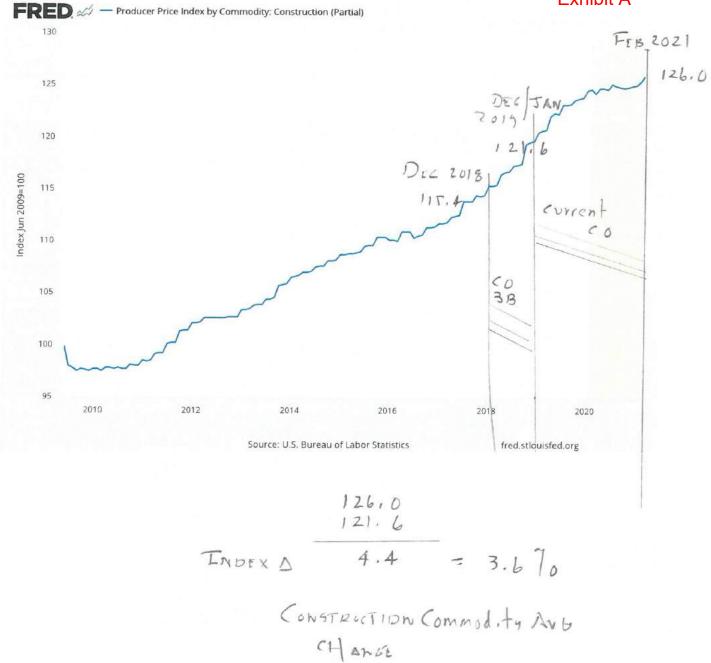
© 2020 IHS Markit

^{*} Up and down arrow signals if the price forecast is more than 5% higher or lower than the previous forecast. Please note that the forecast is available for download in the Costs and Prices Research section of Connect. Data presented in the Commodity Price Watch are often interim updates to our forecast, and as such may differ from the forecast in the spreadsheet tables.

^{**}Historical price sources: MEPS (stainless steel)

Subcontract Subcontract Subcontract Subcont	TE NO COLOR	(954) 426-1226 NOWIT PILEM	West Ave North -091	16		4/17/2021			
Exaltor New Total CO 38 total Delta Total Impact Exaltor Material Subcontract Total Impact mps w/lax \$ 2,202,075.00 \$ 2,289,219.00 \$ 697,144.00 caletor \$ 704,608.00 \$ 5,256,924.00 \$ 12,438.00 caletor \$ 704,608.00 \$ 12,438.00 \$ 12,438.00 caletor \$ 11,121,725.00 \$ 12,438.00 \$ 12,438.00 friuntains \$ 81,681.00 \$ 12,238.00 \$ 2,838.00 modelless \$ 81,681.00 \$ 78,234.00 \$ 2,838.00 modelless \$ 935,877.00 \$ 2,838.00 \$ 2,838.00 modelless \$ 935,877.00 \$ 2,829.00 \$ 2,829.00 modelless \$ 655,630.00 \$ 2,829.00 \$ 3,220.00 modelless \$ 645,870 \$ 3,245.00 \$ 301,580.00 modelless </th <th></th> <th></th> <th>Commodity and Su</th> <th>bcontractor Escalation</th> <th></th> <th></th> <th></th> <th></th> <th></th>			Commodity and Su	bcontractor Escalation					
Deta Deta Deta Deta Deta Deta Deta Deta Deta Deta Sudcontract Deta									
Escalator Material Subcontract mps w/laxk \$ 2,202,075.00 \$ 2,299,219.00 \$ 697,144.00 mps w/laxk \$ 704,608.00 \$ 226,924.00 \$ 127,884.00 structures \$ 704,608.00 \$ 127,884.00 \$ 127,884.00 structures \$ 1,121,725.00 \$ 1,082,746.00 \$ 38,979.00 \$ 124,880.00 ping/frigation \$ 8,813.00 \$ 20,660.00 \$ 20,660.00 \$ 20,660.00 ping/frigation \$ 65,690.00 \$ 72,232.00 \$ 20,660.00 \$ 20,600.00 ping/frigation \$ 8,813.00 \$ 2,825.00 \$ 2,825.00 ping/frigation \$ 8,825.00 \$ 2,825.00 \$ 2,825.00 ping/frigation \$ 8,825.00 \$ 2,825.00 \$ 2,825.00 ping/frigation \$ 8,825.00 \$ 2,825.00 \$ 3,231.00 ping/frigation \$ 8,825.00 \$ 2,825.00 \$ 3,231.00 ping/frigation \$ 8,463.00 \$ 2,825.00 \$ 3,243.00 ping/frigation \$ 8,463.00 \$ 2,826.00 \$ 3,248.00 ping/frigation \$ 8,463.00 <th< td=""><td></td><td>Item</td><td>New Total</td><td>CO 3B total</td><td>Delta</td><td>Delta</td><td>Total Impa</td><td></td><td></td></th<>		Item	New Total	CO 3B total	Delta	Delta	Total Impa		
Excellator mps w/tax mps w/tax \$ 2,202,075,00 \$ 2,289,219.00 \$ 177,684.00 \$ 12,438.00 \$ 11,21,725,00 \$ 1,082,746.00 \$ 38,979.00 \$ 1,121,725,00 \$ 1,082,746.00 \$ 2,888.00 \$ 2,888.00 \$ 1,121,725,00 \$ 1,082,746.00 \$ 2,888.00 \$ 2,888.00 \$ 2,888.00 \$ 1,121,725,00 \$ 1,082,746.00 \$ 2,888.00 \$ 2,888.00 \$ 2,888.00 \$ 1,882,746.00 \$ 1,082,746.00 \$ 2,888.00 \$ 2,888.00 \$ 1,121,725,00 \$ 1,082,746.00 \$ 2,888.00 \$ 2,888.00 \$ 2,888.00 \$ 2,898.00 \$ 2,829.00 \$ 3,01,888.00 \$ 3,01,888.00 \$ 3,01,888.00 \$ 1,121,20,00 \$ 3,01,888.00 \$ 3,01,888.00 \$ 1,126,00 \$ 1					Materi				
S 2,202,075,00 S 2,269,219.00 S 177,684.00 S 174,788.00 S 174,789.00 S 174,789.00 S 174,789.00 S 174,790.00		Ourshad Econolistas							
S 704,608.00 \$ 226,924.00 \$ 177,697.00 \$ 177,697.00 \$		Groteu Estalator							
S 704,608.00 S 526,924.00 S 177,884.00 S 12,438.00 S 12,438.00 S 12,438.00 S 12,438.00 Faints		Flygt Pumps w/tax				97 144 00			
% Escalator \$ 12,438.00 structures \$ 1,121,725.00 \$ 1,082,746.00 \$ 38,979.00 h drains \$ 81,631.00 \$ 78,843.00 \$ 2,838.00 caping/Intigation \$ 582,830.00 \$ 42,500.00 \$ 2,838.00 caping/Intigation \$ 665,630.00 \$ 42,500.00 \$ 23,330.00 caping/Intigation \$ 655,630.00 \$ 43,550.00 \$ 23,530.00 ipa-fittings \$ 81,427.00 \$ 78,598.00 \$ 2,829.00 mitractor Adjustments \$ 81,427.00 \$ 78,598.00 \$ 2,829.00 ical- Benson-WTS \$ 81,457.00 \$ 10,166.06.00 \$ 386,128.00 O/5 \$ 1,016,626.00 \$ 386,128.00 \$ 13,406.00 cial- Benson-WTS \$ 11,185,299.00 \$ 11,185,299.00 \$ 11,185,600 cial- Benson-WTS \$ 38,4870.00 \$ 11,185,600 \$ 386,128.00 cial- Benson-WTS \$ 10,166,260.00 \$ 11,185,990.00 \$ 11,185,990.00 \$ 11,185,990.00		DI Pipe				77,684.00		Dee attached quotes	
Escalator Statuctures \$ 1,121,725.00 \$ 1,082,746.00 \$ 38,979.00 Admins \$ 81,681.00 \$ 78,643.00 \$ 2,838.00 caping/Irrigation \$ 55,530.00 \$ 20,600.00 caping/Irrigation \$ 642,500.00 \$ 23,130.00 opening/Irrigation \$ 93,877.00 \$ 12,230.00 opening/Irrigation \$ 1,427.00 \$ 78,598.00 \$ 2,620.00 T/W on \$120,897 \$ 1,427.00 \$ 78,598.00 \$ 2,629.00 Infractor Adjustments \$ 8,463.00 \$ 2,6016.00 ical- Benson -WTS \$ 101,663.00 \$ 301,288.00 ical- Benson -WTS \$ 101,663.00 \$ 18,466.00 ical- Benson -WTS \$ 101,663.00 \$ 18,406.00 ical- Benson -WTS \$ 11,18,299.00 \$ 11,596.00		Tax 7%				12,438.00			
st Structures \$ 1,121,725.00 \$ 1,082,746.00 \$ 38,979.00 Pates \$ 81,681.00 \$ 78,843.00 \$ 2,838.00 gates \$ 82,834.00 \$ 72,234.00 \$ 2,838.00 commodifies \$ 645,500.00 \$ 23,130.00 pp.Fittings \$ 935,877.00 \$ 903,356.00 \$ 23,210.0 r/W on \$120,897 \$ 81,427.00 \$ 78,598.00 \$ 2,829.00 rimtactor Adjustments \$ 81,427.00 \$ 78,598.00 \$ 2,829.00 cial- So Fillect \$ 84,630.00 \$ 301,288.00 cial- Berison -WTS \$ 1,016,626.00 \$ 301,288.00 0/5 \$ 1,118,289.00 \$ 11,182,289.00 \$ 365,34.00 rial \$ 33,548.00 \$ 33,548.00 \$ 11,596.00		3.6% Escalator							
Actual control \$ 1,121,725.00 \$ 1,082,746.00 \$ 38,990.0 Adrains \$ 81,681.00 \$ 72,234.00 \$ 2,888.00 Sates \$ 55,834.00 \$ 72,234.00 \$ 20,600.00 Commodifies \$ 903,356.00 \$ 23,130.00 Specificities \$ 903,356.00 \$ 23,231.00 Specificities \$ 11,272.00 \$ 23,231.00 Specificities \$ 14,27.00 \$ 78,598.00 \$ 2,829.00 Intractor Adjustments \$ 81,427.00 \$ 78,598.00 \$ 2,829.00 Intractor Adjustments \$ 81,427.00 \$ 8,463.00 \$ 40,824.00 Ical- So Fillect \$ 1016,626.00 \$ 301,288.00 \$ 40,824.00 Ical- Benson -WTS \$ 1016,626.00 \$ 366,538.00 \$ 40,824.00 O/5 \$ 11,182,999.00 \$ 11,596.00 \$ 366,534.00 Indian \$ 386,534.00 \$ 386,534.00 \$ 386,534.00								See Producer Price in	P
hdrains 5 81,681.00 \$ 72,234.00 \$ 2,888.00 gates 5 592,834.00 \$ 572,234.00 \$ 20,600.00 ceping/frigation \$ 685,630.00 \$ 642,500.00 \$ 23,130.00 inpe/Fittings \$ 335,877.00 \$ 903,356.00 \$ 23,231.00 inpe/Fittings \$ 81,427.00 \$ 78,598.00 \$ 2,829.00 intractor Adjustments \$ 81,427.00 \$ 78,598.00 \$ 2,829.00 intractor Adjustments \$ 81,427.00 \$ 8,463.00 \$ 301,288.00 ical- So FI Elect \$ 84,630.00 \$ 301,288.00 ical- So FI Elect \$ 1016,626.00 \$ 40,824.00 ical- Benson -WTS \$ 1016,626.00 \$ 301,633.00 0/5 \$ 11,182,899.00 \$ 11,182,899.00 \$ 366,534.00 ind \$ 33,548.00 \$ 33,548.00 \$ 11,596.00		Precast Structures	-		40	38,979.00			
gates \$ 592,834.00 \$ 572,234.00 \$ 20,600.00 caping/frigation \$ 685,630.00 \$ 642,500.00 \$ 23,130.00 commodities \$ 935,877.00 \$ 78,598.00 \$ 32,510.00 r/W on \$120,897 \$ 81,427.00 \$ 78,598.00 \$ 2,829.00 intractor Adjustments \$ 81,427.00 \$ 78,598.00 \$ 2,829.00 intractor Adjustments \$ 81,427.00 \$ 81,427.00 \$ 82,463.00 ical- So Fl Elect \$ 84,633.00 \$ 301,288.00 ical- Berison -WTS \$ 1016,626.00 \$ 369,128.00 0/5 \$ 101,633.00 \$ 18,066.00 ical- Berison -WTS \$ 1118,289.00 \$ 386,534.00 ical- Berison -WTS \$ 33,548.00 \$ 11,596.00		Trench drains			S	2,838.00			
S E65,630.00 S E44,500.00 S 23,130.00 S E44,500.00 S E		Aggregates				20,600.00			
ipe_Fittings \$ 935,877.00 \$ 903,356,00 \$ 32,521.00 ipe_Fittings \$ 81,427.00 \$ 78,598.00 \$ 2,829.00 -7% on \$120,897 \$ 81,427.00 \$ 78,598.00 \$ 2,829.00 intractor Adjustments \$ 8,463.00 \$ 2,6016.00 ical- So FI Elect \$ 301,288.00 ical- Berson -WTS \$ 40,824.00 0/5 \$ 1,016,626.00 \$ 388,128.00 o/5 \$ 101,633.00 \$ 18,405.00 ical- Berson -WTS \$ 11,181,289.00 \$ 386,534.00 ical- Berson -WTS \$ 33,548.00 \$ 11,596.00		Landscaping/irrigation				23,130.00			
tipe Fittings \$ 81,427.00 \$ 78,598.00 \$ 2,829.00 -7% on \$120,897 \$ 8,463.00 \$ 2,829.00 intractor Adjustments \$ 8,463.00 \$ 26,015.00 it \$ 301,288.00 ical- So FI Elect \$ 301,288.00 ical- Berson -WTS \$ 40,824.00 0/5 \$ 1,015,625.00 \$ 368,128.00 ial \$ 11,182,289.00 \$ 386,534.00 ind & Ins \$ 33,548.00 \$ 11,596.00		Pipe Commodities				32,521.00			Ī
Intractor Adjustments Interpretation Interpretat		PVC Pipe, Fittings			v.	2,829.00			
Intractor Adjustments Interpretation Interpretat		Taxes - 7% on \$120,897			in.	8,463.00			
It is a position of table and		Subcontractor Adjustments							
ical- So Fillect \$ 301,288.00 ical- Benson -WTS \$ 40,224.00 0/5 \$ 1,016,626.00 \$ 485,128.00 o/5 \$ 10,116,626.00 \$ 18,406.00 tal \$ 11,182,289.00 \$ 386,534.00 nd & lns \$ 33,548.00 \$ 11,596.00		Asphalt				v	26,016.00	See Ounte Companies	700
S 40,824.00 C 40,824.00		Electrical- So FI Elect				15	301,288.00	See unit Pricing sores	d she
0/5 \$ 1,016,626,00 \$ 3 3 and & loss and & lo		Electrical- Benson -WTS				s	40,824.00	See quote compariso	
\$ 101,683.00 \$ \$ \$ 1,118,289.00 \$ \$ \$ 33,548.00 \$		Total				-	258 139 00		H
\$ 1,118,289.00 \$ 5 \$ 33,548.00 \$		OH-10/5			•		18 405 00		
\$ 33,548.00 \$		Subtotal			-	+	386.534.00		t
		3% Bond & Ins					11,596.00		t

Ric-Man Construction Florida, Inc. 3100 SW 15th Street Deerfield Beach, FL 33442 (954) 426-1221



Change Output Options:

From: 2011 - To: 2021 - @

 \square include graphs \square include annual averages

More Formatting Options

Data extracted on: April 15, 2021 (12:52:37 PM)

PPI Commodity Data

1-Month Percent Change Series Id:

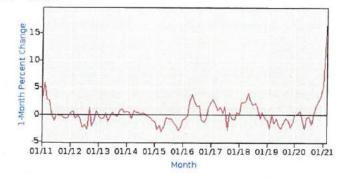
Not Seasonally Adjusted

Series Title: PPI Commodity data for Metals and metal products-Steel mill products, not seasonally adjusted

Group: Item:

Metals and metal products Steel mill products

Base Date: 198200



Download: 🔯 xisx

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2011	3.1	5.9	2.9	2.6	0.2	-1.1	0.0	-0.1	-0.1	-0.5	-0.6	-0.5
2012	0.3	0.7	-0.6	-0.2	-0.6	-2.3	-1.8	-2.7	1.3	-2.1	-1.0	0.7
2013	-0.3	-0.8	-0.6	0.3	-1.2	-0.2	0.4	-0.1	-0.3	0.8	1.0	0.4
2014	0.6	0.4	-0.7	0.8	0.5	0.4	0.1	0.3	0.1	-0.3	-0.5	-1.0
2015	-1.2	-2.7	-1.9	-3.1	-2.1	-0.5	-0.7	-0.8	-1.3	-2.0	-2.9	-2.3
2016	-0.9	-0.8	-0.1	2.4	3.7	2.2	1.5	1.7	-0.9	-1.4	-0.4	1.4
2017	2.4	2.8	1.8	0.8	1.4	0.3	1.5	-2.8	0.5	-0.8	-0.9	0.5
2018	0.2	2.2	2.2	2.5	4.0	2.6	1.8	2.1	1.3	-0.8	0.4	-0.6
2019	-1.0	-2.5	0.1	-1.6	-0.8	-1.9	-2.6	-1.4	-0.6	-1.1	-2.3	-1.5
2020	-0.1	0.1	0.7	-0.7	-2.6	-0.6	-0.4	-1.8	0.1	1.6	2.4	3.4(P)
2021	5.2(P)	11.8(P)	17.6(P)									

P: Preliminary. All indexes are subject to revision four months after original publication.

Change Output Options:

From: 2011 ~ To: 2021 ~ @

☐ include graphs ☐ include annual averages

More Formatting Options

Data extracted on: April 15, 2021 (12:53:27 PM)

PPI Commodity Data

1-Month Percent Change WPS081 Series Id:

Seasonally Adjusted

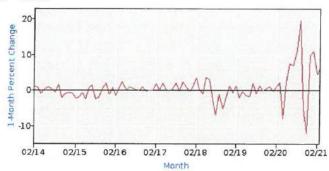
Series Title: PPI Commodity data for Lumber and wood products-Lumber, seasonally adjusted

Lumber and wood products Group:

Item:

Lumber

Base Date: 198200



Download: 🔣 xisx

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2014		1.2	1.0	-0.8	0.3	0.9	0.6	-0.5	1.7	-1.9	-0.9	-0.7
2015	-0.6	-2.1	-2.0	-0.6	-2.4	0.8	1.6	-2.3	-1.9	0.7	2.0	-1.1
2016	0.8	-1.5	0.7	2.5	0.1	1.0	0.6	0.3	0.0	0.9	-0.1	0.1
2017	0.0	1.9	0.0	2.0	0.4	-0.1	0.4	2.0	-0.2	2.5	1.0	-0.1
2018	0.7	3.6	0.5	-0.8	3.8	3.0	-2.6	-6.9	-1.1	-5.0	-1.8	1.3
2019	-0.6	1.3	-1.9	-0.4	-1.5	-1.6	2.1	-0.9	1.4	0.1	0.5	1.2
2020	-0.2	1.1	2.2	-7.8	2.5	7.6	7.0	11.5	19.8	-5.1	-11.8	10.0(P)
2021	11.1(P)	4.6(P)	6.2(P)									

P: Preliminary. All indexes are subject to revision four months after original publication.

U.S. BUREAU OF LABOR STATISTICS Postal Square Building 2 Massachusetts Avenue NE Washington, DC 20212-0001

Telephone:1-202-691-5200_ Federal Relay Service:1-800-877-8339_ www.bls.gov Contact Us

Change Output Options:

From: 2019 V To: 2021 V 60

☑ include graphs ☐ include annual averages

More Formatting Options

Data extracted on: April 15, 2021 (12:55:03 PM)

PPI Commodity Data

1-Month Percent Change

Series Id: WPS081 Seasonally Adjusted

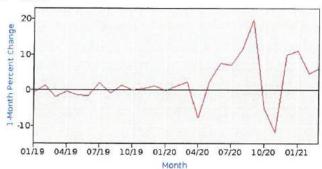
Series Title: PPI Commodity data for Lumber and wood products-Lumber, seasonally adjusted

Group: Lumber and wood products

Item:

Lumber 198200

Base Date:



Download: 🖾 xisx

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2019	-0.6	1.3	-1.9	-0.4	-1.5	-1.6	2.1	-0.9	1.4	0.1	0.5	1.2
2020	-0.2	1.1	2.2	-7.8	2.5	7.6	7.0	11.5	19.8	-5.1	-11.8	10.0(P)
2021	11.1(P)	4.6(P)	6.2(P)									re-

U.S. BUREAU OF LABOR STATISTICS Postal Square Building 2 Massachusetts Avenue NE Washington, DC 20212-0001

Telephone:1-202-691-5200_ Federal Relay Service:1-800-877-8339_ www.bls.gov Contact Us



Change Output Options:

From: 2019 V To: 2021 V

 \square include graphs \square include annual averages

More Formatting Options

Data extracted on: April 15, 2021 (12:55:46 PM)

PPI Commodity Data

1-Month Percent Change Series Id: WPU1017 Not Seasonally Adjusted

Series Title: PPI Commodity data for Metals and metal products-Steel mill products, not seasonally adjusted

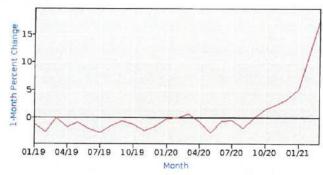
Group:

Metals and metal products

Steel mill products

Base Date:

198200



Download: 🔯 xisx

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2019	-1.0	-2.5	0.1	-1.6	-0.8	-1.9	-2.6	-1.4	-0.6	-1.1	-2.3	-1.5
2020	-0.1	0.1	0.7	-0.7	-2.6	-0.6	-0.4	-1.8	0.1	1.6	2.4	3.4(P)
2021	5.2(P)	11.8(P)	17.6(P)									

P : Preliminary. All indexes are subject to revision four months after original publication.

U.S. BUREAU OF LABOR STATISTICS Postal Square Building 2 Massachusetts Avenue NE Washington, DC 20212-0001

Telephone:1-202-691-5200_ Federal Relay Service:1-800-877-8339_ www.bls.gov_Contact Us

South Florida Electrical Consultant, Inc.

WEST AVENUE - NORTH PROJECT - SIGNALIZATION AND LIGHTING QUANTITIES

N LIGHTING LIGHTING LIGHTING LIGHT QUANTITY LIGHT QUANTITY LE 4500 LF 62100 LF 62100 LF 62100 LF 62100 LF 62000 LF 62000 LF 40,667 EA 209	CHOOSE IN	SIGNALIZATION				
CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE FOR SIGNALS, INCLUDES OPEN TRENCH INSTALLATION UNIT A500	II EM NUMBER	DESCRIPTION	-			
LIGHTING LIGHTING LIGHTING LIGHT QUANTITY LEF 4500 RS 78 RS 33 LIGHTING LF 67100 LF 7500 LF 40,667 RS 209	0630-2-12	CONDUIT FURNISH & INSTALL DIRECTIONAL BODE FOR SIGNALS INCLUDES OFFICE STATES	LINO	OTY EST.	INCREASE	AMOUNT
LIGHTING LIGHTING LIGHTING LIGHTOR LIGHTOR LF 62100 LF 62100 LF 1500 LF 1500 LF 40,667 EA 209	2-11	PULL & HINCHON BOXES EST 42" V 24" FOR DISCUSSION OF STATE OF STAT	4	4500	\$2.64	\$11,880.00
LIGHTING LIGHTING LIGHTING LIF 62100 LF 62100 LF 1500 LF 1500 LF 40,867 EA 209	31-103	MAST ASM SELVINE SPECE OUT TO SELVEN	EA	78	\$27.83	\$2.170.74
LIGHTING LIGHTING LIGHTING LF 62100 LF 62100 LF 1500 LF 1500 LF 40,667 EA 209	5- 120	TOUR TOWN OF THE STREET SINGLE ARM, W/O LUMINAIRE	EA	12	\$9.100.00	\$109.000.00
LIGHTING UNIT QUANTITY LF 62100 LF 62100 LF 40,667 EA 209	Strided:	TASTIC CONTROLLER ASSEMBLY, F&L 170	AS	3	\$2,500,00	\$7 500 00
LIGHTING UNIT QUANTITY LF 62100 LF 1500 LF 1500 LF 40,667 EA 209	ngular Rapid Flashing B	acon (AC powered or Solar)				\$130,750.74
LIGHTING UNIT QUANTITY LF 62100 LF 1500 LF 1500 LF 40,667 EA 209	Detecton system					
LIGHTING UNIT QUANTITY LF 62100 LF 1500 LF 40,667 EA 209						
UNIT QUANTITY		LIGHTING				
LF 62100 LF 1500 LF 1500 LF 40,667 EA 209	NOMBER	TO FIGURE				
LF 62100 LF 1500 LF 40,667 EA 209	1-12		LIND	QUANTITY		
LF 1500 LF 40.667 EA 209	1-14	LIGHTING CONDICTORS, E21 INSULATED AND A	T	62100	\$0.90	\$55,890.00
LF 40.667 EA 209	2-12	CONDUIT FURNISH & INSTALL INCLUDES OPEN INFORMATION ATTOM	LF	1500	80.98	\$1,470,00
EA 209	2-11	PILL & HINGTON BOXES EST JOSE VALED INCIDENCE INCIDENCE	-F	40,667	\$2.64	\$107.380.88
		Secretary Tay, 13 A 24 FOR LIGHTING	EA	209	\$27.83	\$5,816.47
DELTA	umes the loop assembl	s for the EB approach to Alton Rd at 15th St. 16th St. & Lincoln Rd will require replacement.				\$170,537.35
					DELTA	£204 228 00



U.S. Pipe & Foundry Company, LLC Two Chase Corporate Drive, Suite 200 Birmingham, AL 35244



Sales Manager: Allred, Sean

Phone: 727-249-8809

Email: sallred@uspipe.com

Attn: Chris Bottome

Date: 9/17/2019

Quote #: 162962

Revision #: 0

Bid Date: 9/30/2019

City, St: FL

Engineer:

Addendums:

Project: West Ave. North

Location:

RFQ ID:

The EXPIRATION date for this quote is: 10/17/2019

	Qty		Description	Length	Weight	Price	Total Price
1	670	FT	06" TYTON DIP CL52 20' NOM BCL/AC (D)		13,635	\$13.38	\$8,964.60
2	248	FT	08" TYTON DIP CL52 20' NOM BCL/AC (D)		7,093	\$18.80	\$4,662.40
3	7030	FT	12" TYTON DIP CL52 20' NOM BCL/AC (D)		332,519	\$31.10	\$218,633.00
4	3106	FT	20" TYTON DIP CL52 20' NOM BCL/AC (D)		276,434	\$58.52	\$181,763.12
5	33	EΑ	06" FIELD LOK 350 GASKET (I)		20	\$51.68	\$1,705.44
6	12	EΑ	08" FIELD LOK 350 GASKET (I)		13	\$69.99	\$839.88
7	351	EA	12" FIELD LOK 350 GASKET (I)		737	\$101.65	\$35,679.15
8	155	EA	20" FIELD LOK 350 GASKET (I)		649	\$329.29	\$51,039.95
1			Quote Totals:		631,099		\$503,287.54

78 422 526,924 ESLA



U.S. Pipe & Foundry Company, LLC Two Chase Corporate Drive, Suite 200 Birmingham, AL 35244



Sales Manager: Allred, Sean

Phone: 727-249-8809

Email: sallred@uspipe.com

Attn: Chris Bottome

Date: 3/30/2021

Quote #: 162962

Revision #: 1

Bid Date: 9/30/2019

City, St: FL

Engineer:

Location:

Addendums:

Project: West Ave. North

oution.

RFQ ID:

The EXPIRATION date for this quote is: 9/26/2021

	Qty		Description	Length	Weight	Price	Total Price
1	670	FT	06" TYTON DIP CL52 20' NOM BCL/AC (D)		13,635	\$19.28	\$12,917.60
2	248	FT	08" TYTON DIP CL52 20' NOM BCL/AC (D)		7,093	\$27.21	\$6,748.08
3	7030	FT	12" TYTON DIP CL52 20' NOM BCL/AC (D)		332,519	\$45.17	\$317,545.10
4	3106	FT	20" TYTON DIP CL52 20' NOM BCL/AC (D)		276,434	\$85.44	\$265,376.64
5	33	EΑ	06" FIELD LOK 350 GASKET (I)		20	\$59.06	\$1,948.98
6	12	EA	08" FIELD LOK 350 GASKET (I)		13	\$79.99	\$959.88
7	351	EA	12" FIELD LOK 350 GASKET (I)		737	\$116.18	\$40,779.18
8	155	EA	20" FIELD LOK 350 GASKET (I)		649	\$376.34	\$58,332.70
1			Quote Totals:		631,099		\$704,608.16



3200 W 84 Street, Hialeah, FL 33018 Office 305.364.8200 I Fax 305.882.1577 Toll Free 800.258.6873 www.usffab.com

March 15, 2021

Dear Valued customer

As you may already be aware, pricing for steel and stainless steel of all types has been rising steadily for the past year. We have been able to absorb much of these increased material costs through our purchasing of futures contracts on material used for the higher volume products we produce. Unfortunately, due to the unprecedented spike in steel material cost in the past 4 months, along with longer long lead times for these same materials, we have no other option but to increase pricing on Steel and Stainless Steel Products.

Effective immediately all quotes for steel and stainless steel products will be held for 30 days only. Any existing quotes will be honored through their expiration date or the end of April 2021 whichever is sooner.

We will continue to closely monitor the metals markets in the coming weeks and determine the best way forward with regard to price increases on steel and stainless steel products in order to minimize the impact of these increases. Prices for the aluminum hatches and other aluminum items will remain the same at this time.

As an important USF Fabrication partner we are committed to working with you to provide you with the best combination of service, quality products and competitive pricing in the industry, and insure the continued growth of both of our companies in these challenging times.

Sincerely,

USF Fabrication, Inc.

Jeff Allen

Jeff Allen - Operations and Sales Manager



Xylem Water Solutions USA Inc. / Flygt Products

15132 Park of Commerce Blvd. Suite 102 Jupiter, Florida 33478 Phone: 561-848-1200 • Fax: 561-848-1299

April 16, 2021

RIC-MAN CONSTRUCTION FL INC 3100 SW 15TH ST DEERFIELD BEACH FL 33442

Quote # 2019-WEP-0815

Project Name: (1) Lincoln Road

Xylem Water Solutions USA, Inc. is pleased to provide a quote for the following Flygt equipment.

West.	Ave PS	
Qty		2709,55
6	PL7065, 63, 840, 523mm 22 deg, 43-30-8AA, 135HP, 715 drive unit, 460V, \mathcal{P} . D , 60Hz, Mas 711, S3x70+3x35/3+2S92x.,5)175ft , S12, 1,5 175ft Shaft: AISI 431 Stainless Steel Zinc anodes attached on pump & drive unit	507,475
6	FW3S620G 20'X5/8" LIFT CHAIN+ 316SS	
1	Fully Integrated VFD Control Panel for 6 pumps. Includes NEMA 4X 316SS Modular enclosure. MultiSmart Pump Station Manager for control & future SCADA. Primary Level Pressure transducers with back up Float logic. Air Conditioned enclosure with separate Emergency Backup Generator Receptacle.	1
6	BASE UNIT/PANEL ASSEMBLY MAS	
6	TRANSFORMER, CURRENT 300:1	
12	SENSOR,ENM-10 0.95-1.1 65'	
6	HOLDER, CABLE HEAVY DUTY 316SS	
10	60" X 60" Frame Opening Alum AHD Hatches	
6	48" X 60" Frame Opening Alum AHD Hatches	
2	78" X 78" Frame Opening Alum AHD Hatches	
6	USF 230-AA 41 1/2" Ring w/Cover	
7	48" X 84" Frame Opening Alum AHD Hatches	
1	56" X 88" Frame Opening Alum AHD Hatches	
1	50" X 51" Frame Opening Alum AHD Hatches	
3	USF 230-AA 49 1/2" Ring w/Cover	
4	START UP,FLYGT,NO TAX 1-TP MODELS: 3000,7000,8000	
6	SS316 Pump Tube 32" OD x 23' - 6" LG with Side Discharge 32" OD x 34" LG from Tube CL	
6	SS316 Formed Suction Intake for 32" Pump Tube	
6	Wall Brackets SS 316 Pump Tube Wall bracket	
6	CABLE ENTRY UNIT	
6	GRIP,CABLE SS 19-24MM	
6	GRIP,CABLE SS 25-36MM	
6	HOLDER,CABLE 304	
6	PIPE,SQUARE 304 L=860MM	
12	EYE,LIFTING UNIT	
6	EYE,LIFTING UNIT	
6	WIRE UNIT	
12	PIPE UNIT	





Xylem Water Solutions USA Inc. / Flyat Products

15132 Park of Commerce Blvd. Suite 102 Jupiter, Florida 33478

Phone: 561-848-1200 • Fax: 561-848-1299

Total Price

\$ 2,709,550.05

Exclusions:

WE DO NOT SUPPLY, PIPING, VALVES, GUIDE BARS, PRESSURE GAUGES, DISCONNECTS, JUNCTION BOXES, KELLUMS GRIPS, SURGE PROTECTION EQUIPMENT, SPARE PARTS, LABOR OR ANY OTHER

ITEM NOT SPECIFICALLY LISTED ABOVE.

PLEASE MAKE PURCHASE ORDERS OUT TO: XYLEM WATER SOLUTIONS USA, INC.

Validity:

THIS QUOTE IS VALID FOR NINETY (90) DAYS UNLESS LONGER TIME AGREED TO IN WRITING.

Taxes:

State, local, and other applicable taxes are not included in this quotation.

Freight Terms:

DAP; Jobsite - Full Freight Allowed (per Incoterms 2020)

Terms of delivery: PP/Add Order Position

Delivery lead-times may be impacted by the current COVID-19 virus pandemic relative to

transportation logistics.

Shortages:

Xylem will not be responsible for apparent shipment shortages or damages incurred in shipment that are not reported within two weeks from delivery to the jobsite. Damages should be noted on the receiving slip and the truck driver advised of the damages. Please contact our office as soon as possible to report damages or shortages so that replacement items can be shipped and the appropriate claims made.

Payment Terms: 100% NET 45 DAYS AFTER SHIPMENT DATE.

(Note: Partial billing will be made on partial shipments)

Xylem's payment shall not be dependent upon Purchaser being paid by any third party unless Owner denies payment due to reasons solely attributable to items related to the equipment being provided by

FLYGT.

Schedule:

Please consult your local Flygt branch for submittals and fabrication lead-times.

Back Charges:

Buyer shall not make purchases nor shall Buyer incur any labor that would result in a back charge to

Seller without prior written consent of an authorized employee of Seller.

Terms & Conditions: This order is subject to the Standard Terms and Conditions of Sale - Xylem Americas effective on the date the order is accepted which terms are available at http://www.xyleminc.com/en-us/Pages/terms-conditions-of-sale.aspx and incorporated herein by reference and made part of the agreement between the parties.

We thank you for your interest in our equipment and look forward to being of service to you in the near future.

Please feel free to call if you have any questions or if you require assistance.

Sincerely,

Deboats D Scorlow



Deborah Scanlon Inside Sales Engineer Rick Reyes Sales Representative Xylem Water Solutions USA Inc. / Flygt Products 15132 Park of Commerce Blvd. Suite 102

Jupiter, Florida 33478
Phone: 561-848-1200 • Fax: 561-848-1299

deborah.scanlon@xyleminc.com IN THE ABSENCE OF A FORMAL ISSUED BINDING CONTRACT.	PURCHASE ORDER, A S	SIGNED COPY OF THIS PROPOSAL IS ACCEPTABLE AS A
Xylem Water Solutions USA, Inc.	Company Name:	
	Address:	
	Accepted By:	
	Print Name:	





GENERAL ASPHALT CO., INC. **4850 NORTHWEST 72ND AVENUE** MIAMI, FLORIDA 33166 TELEPHONE: (305) 592-3480

VAILE -> 781,479

140,600

Criq a 740, 229

FAX: (305) 477-4675

Project Location:		Bid Date:	1/4/2017
Project Name:	West Ave Design Builds	Bid Number	r:
	Deerfield Beach, FL 33442	Fax:	
Address:	3100 SW 15th Street	Phone:	(954) 426-1221
To:	Ric Man Construction	Contact:	Dan

Item #	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
1	MOBILIZATION	4.00	EACH	\$3,500.00	\$14,000.00
2	1 Inch SP 9.5 Asphalt Roadway First Lift (NORTH)	39,388.00	SY	\$6.00	\$236,328.00
3	1 Inch SP 9.5 Asphalt Roadway Final Lift (NORTH)	39,388.00	SY	\$6.25	\$246,175.00
4	1 Inch SP 9.5 Asphalt Roadway First Lift (SOUTH)	19,945.00	SY	\$6.00	\$119,670.00
5	1 Inch SP 9.5 Asphalt Roadway Final Lift (SOUTH)	19,945.00	SY	\$6.25 4 19 2 Total Bid Price:	\$124,656.25 \$12,762 \$740.829.25

Notes:

• The above prices do not include Performance and Payment Bond. Add 2% if bond is required.

The above price does not include MOT.

. The above price does not inlude any Layout.

- The above price does not include Sawcutting
- The above price does not include any Testing.
- The above price does not include As Builts.
- The above price does not include Striping
- The above prices do not include Permits.
- The above prices do not include Protection of Brick Pavers or Stamped Concrete
- The above prices do not include Quality Control (QC)
- · The above prices are good until
- New asphalt pavement is subject to tire tracks and marking. GAC is not responsible for these issues.
- * Unless indicated otherwise, this proposal is based on average thickness of asphalt, not minimum thickness.

This proposal is may be withdrawn by GAC if not accepted within (30) days.

- Final payment will be based upon actual quantities installed as determined by field measurement after completion.
- GAC shall not be responsible for reflective cracking, birdbaths, drainage problems, or settlement of new asphalt overlay due to the existing asphalt.
- Any Punch List items must be submitted in writing. No repairs will be made until 90% of the invoice amount has been paid.
- GAC shall not be responsible for birdbaths or water flow when projects are designed with less than 1% fall.
- Customer agrees to pay asphalt over-runs at a price of \$ 100.00 per ton
- Customer agrees to pay for asphalt leveling at a price of \$ 125.00 per ton
- · This quote is based on the bituminous and materials index from the Florida Department of Transporation for liquid asphalt. GAC shall be compensated for any increase in excess of the current month's index at the time of the asphalt placement.
- No Under Roof paving is included unless specifically stated in the proposal!
- No behind the curb paving is included unless specifically stated in the proposal!

36/10 090 617, TO 091



GENERAL ASPHALT CO., INC. 4850 NORTHWEST 72ND AVENUE MIAMI, FLORIDA 33166

TELEPHONE: (305) 592-3480

FAX: (305) 477-4675

To: Ric Man Construction Contact: Tyson Address. 3100 SW 15th Street Phone: (954) 426-1221 Deerfield Beach, FL 33442 Fax: Project Name: West Ave Design Builds Bid Number: Project Location: Bid Date: 4/19/2021

Item #	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
1	MOBILIZATION	6.00	EACH	\$3,500.00	\$21,000.00
1.1	Prime And Sand	59,333.00	SY	\$0.55	\$32,633.15
2	1 Inch SP 9.5 Asphalt Roadway First Lift (NORTH)	39,388.00	SY	\$6.50	\$256,022.00
3	1 Inch SP 9.5 Asphalt Roadway Final Lift (NORTH)	39,388.00	SY	\$6.80	\$267,838.40
4	1 Inch SP 9.5 Asphalt Roadway First Lift (SOUTH)	19,945.00	SY	\$6.50	\$129,642.50
5	1 Inch SP 9.5 Asphalt Roadway Final Lift (SOUTH)	19,945.00	SY	\$6.80	\$135,626.00

Total Bid Price: \$842,762.05

Notes:

- · The above prices do not include Performance and Payment Bond. Add 2% if bond is required.
- . The above price does not include MOT.
- . The above price does not inlude any Layout.
- . The above price does not include Sawcutting
- The above price does not include any Testing.
- The above price does not include As Builts.
- The above price does not include Striping
- The above prices do not include Permits.
- The above prices do not include Protection of Brick Pavers or Stamped Concrete
- The above prices do not include Quality Control (QC)
- · The above prices are good until
- New asphalt pavement is subject to tire tracks and marking. GAC is not responsible for these issues.
- Unless indicated otherwise, this proposal is based on average thickness of asphalt, not minimum thickness.
- This proposal is may be withdrawn by GAC if not accepted within (30) days.
- Final payment will be based upon actual quantities installed as determined by field measurement after completion.
- GAC shall not be responsible for reflective cracking, birdbaths, drainage problems, or settlement of new asphalt overlay due to the existing asphalt.
- * Any Punch List items must be submitted in writing. No repairs will be made until 90% of the invoice amount has been paid.
- GAC shall not be responsible for birdbaths or water flow when projects are designed with less than 1% fall.
- Customer agrees to pay asphalt over-runs at a price of \$ 100.00 per ton
- Customer agrees to pay for asphalt leveling at a price of \$ 125.00 per ton
- This quote is based on the bituminous and materials index from the Florida Department of Transporation for liquid asphalt. GAC shall be compensated for any increase in excess of the current month's index at the time of the asphalt placement.
- · No Under Roof paving is included unless specifically stated in the proposal!
- No behind the curb paving is included unless specifically stated in the proposal!

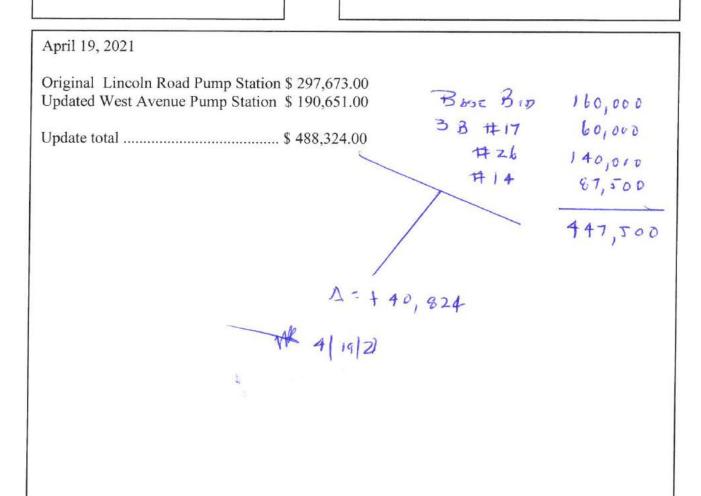
Change Order #1

Benson Electric, Inc.

10475 SW 186th Street Miami, Florida 33157 (305) 235-06741 Fax (305) 235-4690

RicMan Construction

Project: West Avenue Pump Station West Avenue & 17St Miami Beach, Fla



We propose to furnish materials and labor in accordance with the specification above for the sum of \$488,324.00

Payment same as existing proposal, due as per billing.

All materials are guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from the above specification involving extra costs will be executed only upon the issuance of written change orders, and will become an extra charge over and above the estimate. All agreements are contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workman's Compensation Insurance

	All agreements are contingent upon strikes, accidents or delays beyond our control. Our workers are fully covered by Workman's Compensation Insurance
Authorized Signature	Acceptance Signature

James H. Clark, Jr. Benson Electric, Inc.

The above prices, specifications and conditions are satisfactory and are hereby accepted. You are hereby authorized to proceed with the work as described. Payment shall be as specified.

Benson Electric, Inc. 10475 S.W. 186TH STREET MIAMI, FLORIDA 33157

City of Miami Beach West Avenue Pump Station Electrical Scope

Ric-Man Construction,

April 19, 2021

We are pleased to provide your firm with a proposal to perform electrical work for the project referenced above. Our proposal is based on the 60% project plans and specification package, Division 160000, and any addendum prior to bid date with the following conditions applicable:

- Bond premium is not included.
- Site, surface, pavement, concrete, landscaping, sodding, seeding, finish restoration and/or patching and painting shall be by others.
- 3) Equipment housekeeping pads removal, install and conduit protection curbs shall be by others.
- 4) Any Utility fees and consumption for this project are excluded.
- 5) Does not include temporary power
- 6) All trenching and backfilling to be by others.
- 7) Includes removal of 4 street lights.
- 8) Does not include removal of Comcast Utility Box.
- 9) Includes removal of existing meter & concrete pole, does not include reinstallation.
- Pump Station Control Panels, MCC, VFD's, pump motor term boxes, control term boxes to be furnished by others installed by B.E.I.
- 11) All Instrumentation, PLC, FIT's, PIT's, FSL's, Floats, special mounting hardware, sun shade or any other related items to be furnished and installed by others.
- Generator, ATS, E-stop to be furnished by others, B.E.I. to install ATS & E-stop, generator to be installed by others.
- 13) B.E.I. to furnish and install Main Disconnect Switch, Meter Can, and transformer T-1.
- 14) Does not include furnishing or installing any street light(s), signalization or FPL duct bank relocations.
- 15) Site cleanup for our operations is included to an on site dumpster provided by others.
- 16) Does not include wind load calcs.
- 17) Does not include permit fees / costs
- 18) Does not include prevailing wages.
- 19) All work to be done during normal working hours.

We appreciate the opportunity of providing you with this proposal. Please do not hesitate to call if you have any questions regarding our proposed scope.

James H. Clark Jr.

President

Benson Electric, Inc.

Updated Bid Total......\$ 488,324.00

Phone: (305) 951-3164 Email: jimmyc33030@bellsouth.net Fax: (305) 235-4690

West Ave 090/091			
Escalation RMCF Direct labor	4/13/2021		
	06	91	
Item	Hours Cost	Hours Cost	Comments
Base Contract	23,762 \$ 1,019,810.00	50,573 \$ 2,157,261.00	
CO3B			
#11/23- labor escalation	\$ 66.028.00	\$ 114 875 00	
#5/17- 10 year Storm water	7,361 \$ 372,194.00		
#16- Alton Ct	w		
#15- Rear to Front		939 \$ 45.862.00	
#6/18	\$ 0	5	
# 1/14- Gen sets	3433 \$ 199,037.00	. 45	
#14- Lincoln Rd PS		10	
#2 -Alton CT	95 \$ 6,141.00		
#4 -6th St Side walk	45		
#3- Alton CT re-surfacing	385 \$ 37,714.00		
Sub Totals	36,117 \$ 1,720,909.00	69.871 \$ 3.287.389.00	
30 Months at 3% per year (0.25% per month)= 7.5%)-091			TOOL SECURE SCOOL SOUTH
27 Months at 3% per year (0.25% per Month=6.75%- 090	\$ 116,161.00		March 9,2021 - July 4,2023
New CO Escalation			
24 Months at 3% per year= 6%- 091	14,347 \$ 747,978.00	42,242 \$ 2,152,147.00	Jan 2023- Jan 2025
700 - 7		\$ 129,128.00	
o months at 3% per year (0.25% per month = 1.5%)- 090	\$ 11,370.00		Jan 2023- July 2023
Total Escalation	\$ 127,531.00	\$ 375.682.00	
3% Bond & Ins	\$ 3,826.00	\$ 11,270.00	
Grand Total	4		

Ric-Man Construction Florida, Inc. 3100 SW 15th Street Deerfield Beach, FL 33442 (954) 426-1221

Employment, Hours, and Earnings from the Current Employmen Original Data Value

CES2000000003 Series Id:

Seasonally Adjusted

Average hourly earnings of all employees, construction, Series Title:

Construction Super Sector:

Industry:

Construction NAICS Code:

AVERAGE HOURLY EARNINGS OF ALL Data Type:

2011 to 2021

Years:

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	25.46	25.44	25.34	25.38	25.35	25.35	25.36	25.46	25.49	25.40	NN 3C	200
	25.50	25.55	25.66	25.65	25.69	25 71	25 75	21.30	0 0	6.07	44.07	4.07
	25 96	26.02	00 30		0.00	- 10.0	20.10	77.07	75.80	72.84	25.95	25.9
	00.00	20.03	23.30	20.03	70.04	26.09	26.17	26.19	26.17	26.18	26.25	26.3
	26.41	26.76	26.48	26.56	26.61	26.67	26.66	26.73	26.81	26.86	26 92	380
	27.07	27.12	27.24	27.28	27.32	27.34	27.36	27.44	27.35	27.50	20.02	27.0
	27.66	27.75	27.87	27.97	28.08	28.12	28.20	28.20	28.21	20.72	10.12	0.72
	28.53	28.52	28.61	28.61	28 73	28.80	28 05	00.00	1000	24.02	20.33	70.4
	29.39	29.54	29 49	29.66	20 71	20.02	20.93	20.00	29.10	28.12	29.22	29.3
	30.33	30.43	30.50	30.63	30.70	30.74	20.83	30.02	30.19	30.25	30.28	30.4
2020	31.23	31.36	31.37	31.38	31.50	31.63	31.74	31.82	31.82	31.00	31.12	31.16
	32.22	32.33							20:10	0.10	18:10	32.1

32.33