

Financial Project ID No's.: 429193-1-56-01
Proposed BODR & Final Design for new Pump Station and Gravity Sewer along SR 907/Alton Road
From Michigan Ave to South of 43rd Street
Miami-Dade County, Florida

Stantec Consulting Services Inc.

901 Ponce de Leon Boulevard Suite 900 Coral Gables FL 33134 Tel: (305) 445-2900 Fax: (305) 445-3366

1 SCOPE OF WORK - SUPPLEMENTAL AGREEMENT

This amendment to the project scope of services is to provide consulting engineering services to the City of Miami Beach due to the project delays, FDOT changes to the roadway and drainage designs and the City's desire to incorporate wastewater improvements as a result. FDOT modifications include the addition of a two-way protected bicycle lanes, additional pavement widening, relocation of drainage inlets, adjustments of the curb and gutter, sidewalk and lighting, and adjustments of the roadway profile. Based on noted design changes FDOT will be resubmitting 60% and 90% submittals for the water main plans. The WM relocation plans will be resubmitted to FDOT and the City of Miami Beach at the 60% and 90% submittals and updated based on the FDOT design changes.

This amendment will also include a Basis of Design Report (BODR), final design, permitting, preparation of technical special provisions, electronic delivery and post design activities in relation to the installation of one (1) wastewater Pump Station, 200 LF of 8-inch force main, 4, 000 LF of 8"/10"/12"/15"/18" and 10 manholes along SR 907/Alton Road from Michigan Avenue to south of 43 Street. See detailed scope in Exhibit A for additional information.

2 SCHEDULE

Design Schedule and submittal is based on the Roadway design schedule.

BODR and final recommendations-TBD

60% Plans Submittals- September 20th, 2022

90% Plans Submittals- May 20th, 2023

100% Plans Submittals- August 31st, 2023

Plans Specifications and Estimate (PS&E) – August 19th, 2024

Letting Date – October 30th, 2024

3 ESTIMATE OF WORK EFFORT

See attached Estimate of Work Effort and Fee Spreadsheet – Exhibit B

4 REQUEST TO UTILIZE / ADD SUB-CONSULTANT

Survey and SUE Sub-consultant to be utilized.



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5 DELIVERABLES

Plans, Permits, Engineer's Opinion of Probable Cost, soft digs of existing utilities and Technical Special Provisions for the installation of the proposed wastewater pump stations and force main sewer.

6 EXCLUSIONS

Permit fees will be paid by City of Miami Beach.

Environmental services for contamination clean-up if encountered.

7 METHOD OF COMPENSATION

The proposed services will be compensated in the form of a Lump Sum of \$404, 808.41 Compensation will be based on progress submittals of construction documents. Additional services beyond the project scope will require prior approval and separate letter of authorization with justification for the request.

8 PRELIMINARY ESTIMATE OF PROBABLE COSTS

See Preliminary Engineer's Opinion of Probable Cost in Exhibit C.



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9 CONSULTANT ACCEPTANCE	10 SCOPE OF WORK
Prepared For Stantec by:	Approved for by City of Miami Beach by:
<u>Dave Clarke, P.E.</u> Name	
Project Manager Name	Name
Signature Signature	Name
6-17-2022 Date	Signature
Reviewed and accepted for Stantec by:	Date
Ramon Castella, P.E. Name	
Vice-President Name Signature	
6-17-2022 Date	



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Exhibit A – Scope of Services



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Scope of Work

The scope of the work for this Task Work Order (TWO) includes:

- ➤ City of Miami Beach retained Hazen and Sawyer to develop a city-wide Sewer System Master Plan which was completed in October of 2019. Using the results of the Master Plan, the City evaluated the Alton Road corridor from Michigan to South of 43rd Street and identified wastewater improvements within Basin 28 E which include one (1) wastewater Pump Station, 200 LF of 8-inch force main, 4, 000 LF of 8"/10"/12"/15"/18" and 10 manholes. The number of pump stations, pipe sizes and lengths are approximate and will be verified in the BDOR. For this Task Work Order, Stantec will review the recommendations from the Sewer Master Plan and develop a Basis of Design Report to determine the proposed improvements, conduct an analysis to determine the size of one (1) pump station and confirm the length and size of the gravity sewer and FM main along Alton Road golf course. In addition to the BODR, Stantec will also develop construction documents for the new Pump Station, force main and manholes which will include final design, permitting, specifications (per FDOT standards) and limited support during construction.
- > Scope of work for the BODR will include:
 - o Review of Sewer System Master Plan developed by Hazen and Sawyer for City of Miami Beach.
 - Review hydraulic model (infoworks ICM SE by Innovyze) referenced in the Sewer System Master Plan Report by Hazen, develop list of questions, and participate in a model review meeting with the City and Consultant who prepared the model. Updates to the model are limited to the addition of existing gravity sewer system within the service area being evaluated. It is anticipated that the model is updated to accurately represent existing infrastructure and has been calibrated to reflect existing wastewater flow conditions.
 - Collect and review existing as built and GIS utility information
 - Perform site visit at proposed Pump Station location.
 - Using the City's calibrated hydraulic model, add the existing gravity sewer system within the service area, determine the proposed sewer pump station capacity (if needed), size of proposed force main, and size of new gravity sewer system along Alton Road into the R/W from Michigan to Chase Avenue for existing and future conditions. A conceptual layout of proposed facilities prepared by the City is included in Exhibit D.

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- Perform hydraulic model to size the proposed gravity, PS and FM and coordinate with City for impacts citywide due to the proposed work.
- o Preliminary mechanical and structural calculations to size pumps, wet well, and discharge force main.
- Preliminary electrical coordination to identify necessary power upgrades
- Summarize findings in a draft and final BODR
- > The scope of the work for the Pump Station (PS), Force main and Gravity Sewer includes:
 - o Installation of one (1) Pump Station design based on the BODR recommendations.
 - Installation of proposed gravity sewer and manholes as recommended in the BODR along SR 907/Alton Road from Michigan to Chase Avenue.
- > The scope of the work for the watermain update includes:
 - Revise waterline utility drawings to account for FDOT design changes that include addition of a two-way protected bicycle lanes, additional pavement widening, relocation of drainage inlets, adjustments of the curb and gutter, sidewalk and lighting, and adjustments of the roadway profile.
 - Update existing utility information
 - o Prepare updated 60% and 90% EOPCC
 - o Update Technical Special Provisions
 - Prepare and resubmit 60% Preliminary Engineering drawings and Technical Special Provisions.
 - o Prepare and resubmit 90% Detailed Engineer documents.

The Scope of Work for this TWO includes the following:

- 1. Coordination with:
 - a. Florida Dept. of Transportation (FDOT)
 - b. City of Miami Beach

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- c. Miami-Dade Department of Regulatory Economic Resource (RER) formerly DERM
- d. Florida Department of Environmental Protection

Updated Water Main Plans

Miami-Dade County, Florida

2. Update WM plans due to FDOT changes which include addition of a two-way protected bicycle lanes, additional pavement widening, relocation of drainage inlets, adjustments of the curb and gutter, sidewalk and lighting, and adjustments of the roadway profiled

New Pump Station

- 3. Supplement topographic survey and soft digs of the property for the new Pump station. The survey will show the property's relationship to boundary, easement lines and location of above ground visible improvements. Additional Geotechnical borings will also be required and provided by the City of Miami Beach.
- 4. Provide landscape services for screening of PS site with new cluscia shrubs. Design will include spacing of shrubs, selection of species per CLIENT's preference (does not include shrubs that require irrigation), and general landscaping notes. (does not include beautification, photo boards or rending showing finished look, or architectural screening)
- 5. Coordinate location, sketch and description of property and easement location for FPL equipment if necessary.
- 6. Designate utilities horizontally within the subject property to the edge of the pavement or adjacent roadway at each pump station site. Electromagnetic detection/ground penetrating radar techniques will be used to locate utilities and help identify four (4) soft-dig locations at the pump station site. These field located utilities will be plotted on the survey for the pump station.
- 7. Prepare BODR and preliminary drawings which illustrate the basic components of the improvements including, the size, scale, location, dimensions, layout, and character of each major design feature.
- 8. BODR will include final design criteria and be submitted to permit agencies for review.

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- 9. Stantec will design the pump station with watertight hatches to avoid an elevated structure and meet the 100-year flood elevation. This will include the minimum wet well rim elevation required by agency having jurisdiction, and the minimum elevation for the bottom of the electrical equipment. Design will include necessary structural and civil efforts to harmonize grading with adjacent areas.
- 10. Coordinate power upgrade requirements with FPL. Stantec will identify the proposed upgrades required for the new pump station, will coordinate with FPL for preliminary power upgrade design, coordinate minimum easement requirements, coordinate preliminary costs of upgrades, and work with FPL to identify lead times on upgrades.
- 11. Detailed design for the new Pump Station based on the BODR recommendations along Alton Road at the recommended location in exhibit D. This will include design plans and project specifications.
- 12. The new pump station will be designed with a new wet well, new underground valve vault, backup generator, electrical equipment and privacy fence.
- 13. The pump station will be designed based on city of Miami Beach Public Works standards for Sanitary Force mains and pump stations and RER DERM.

14. Preparation of Construction Plans (Pump Station, 19 sheets):

Cover Sheet with Sheet Index (Included with gravity sewer and FM Set)

Legend and Key Plan (Included with gravity sewer and FM Set)

General Notes, Abbreviations and Pipping Schedule (Included with gravity sewer and FM Set)

CIVIL

Standard Details (Included with gravity sewer and FM Set)

1. Proposed Site Plan

Miami-Dade County, Florida

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2. Stormwater Pollution Prevention Plan (SWPPP)

MECHANICAL

3. PS Plans, Sections and Details

STRUCTURAL

- 4. Notes and Symbols
- 5. Valve Vault and Wet Well
- 6. Foundation Support
- 7. Structural Details

ELECTRICAL & INSTRUMENTATION

- 8. Notes and Symbols
- 9. Electrical Site Plan
- 10. Equipment Elevations
- 11. Grounding Plans
- 12. Single Line Diagram and Riser Diagram
- 13. Electrical Details
- 14. Pump Control panel schematic
- 15. Control Panel Details

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- 16. RTU Installation
- 17. Wiring Diagrams
- 18. Schedules

New Gravity Sewer and Force Main

- 15. Development of a preliminary gravity sewer alignment along Alton Road and proposed tie-in locations for new and existing laterals. Discuss the alignment option in meeting with City of Miami Beach and FDOT prior to development of 60% design documents.
- 16. Development of Force main pipe alignment between proposed pump station and manhole on existing 18-inch gravity sewer on the west side of W 27 Street.
- 17. Detailed design (plan and profile) of 8/10/12/18" gravity sewer main and associated connections and appurtenances along SR 907/Alton Road, from Michigan Ave to Chase Avenue.
- 18. Detailed design (plan and profile) of 8" force main and associated connections and appurtenances on the west side of W 27 Street.

19. Preparation of Construction Plans (Gravity Sewer and Force Main 23 sheets):

- Cover Sheet with Sheet Index
- General Notes
- 4. Legend and Key Plan (2 sheets)
- 6. Tabulation of Quantities Sanitary force main, manholes and fittings (2 sheets)
- 7. Plan and Profile for force main (1 sheet)
- 20. Plan and Profile for gravity sewer Including connections to Existing (13 Sheets)

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22. Details (2)

Permitting and Support and Applications

- 20. Preparation and submittal of permit applications to the following:
 - a. Miami-Dade Department of Regulatory Economic Resource (RER) formerly DERM
 - b. Florida Department of Environmental Protection
 - c. City of Miami Beach Building Department Dry Run
 - d. City of Miami Beach Public Works
 - e. DERM Sewer Extension
- 21. Addressing permit comments. Up to three rounds of RFIs for each agency and revising plans as to resolve these RFIs.

LIMITED SUPPORT DURING BIDDING AND CONSTRUCTION

- 22. Provide bidding support to FDOT during procurement addressing questions from prospective bidders.
- 23. Post design services for the new pump station, force main and gravity sewer which include:
 - a. Preconstruction Conference
 - b. Shop Drawing review (Manholes, Modification of existing manholes, gravity sewer pipes, bypass plan for gravity sewer installation, fittings, bypass plan pumps, control panel, valves, wet well, pipes, fittings, etc.)
 - c. Change order evaluation and recommendations

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- d. Start-up Testing
- e. RFIs and Engineers Supplemental Instructions (ESI's)
- f. Field visits

Miami-Dade County, Florida

- 24. Prepare Technical Special Provisions (TSPs) required for:
 - a. Wastewater Pump Stations
 - b. Sanitary Force main construction
 - c. Gravity Sewer main construction
 - d. Update water main construction specifications
- 25. Prepare Engineers Estimate of Probable Construction Cost in FDOT format
- 26. Electronic Delivery of the proposed design JPA per FDOT requirements and Final delivery to City of Miami Beach.

Prepare and submit progress drawings and documents for City of Miami Beach review and approval as follows:

a) 30% submittal:

30% drawings, technical specifications (TOC), class 5 (expected accuracy between 30% to 50%) preliminary Opinion of Probable Construction Cost and draft schedule of values. (Deliverables include: Digital copies of 11" x 17" Design Plans at 1"=40" scale for Plan & Profile, digital copies of the technical specifications, digital copies of preliminary Opinion of Probable Construction Cost.

b) 60% submittal:



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60% drawings, draft technical specifications, class 4 (expected accuracy between 15% to 30%) preliminary Opinion of Probable Construction Cost and draft schedule of values. (Deliverables include: Digital copies of 11" x 17" Design Plans at 1"=40" scale for Plan & Profile, digital copies of the technical specifications, digital copies of preliminary Opinion of Probable Construction Cost.

c) 90% submittal:

90% drawings, draft technical specifications, class 2 (expected accuracy between 5% to 15%) preliminary Opinion of Probable Construction Cost and draft schedule of values. (Deliverables include: Digital copies of 11" x 17" Design Plans at 1"=40" scale for Plan & Profile, digital copies of the technical specifications, digital copies of preliminary Opinion of Probable Construction Cost.

d) Permit Package:

Permit submittal and resolution of permit review comments for the agencies listed above. (Deliverables include: eight (4) copies of 11" x 17" Design Plans at 1"=40" scale for Plan & Profile, two (2) copies of technical specifications signed and sealed by Stantec's Engineer of Record (EOR), completed permit applications for each agency signed and sealed by Stantec's EOR, tracking sheet with indication of dates of submittal of each application and approval or comments from the corresponding agency).

e) 100% Submittal:

Prepare and submit 100% Final drawings, technical specifications, schedule of values and class 1 (expected accuracy between 5% to 10%) Opinion of Probable Construction Cost to City of Miami Beach and FDOT to execute Construction JPA. (Package shall include five (5) copies of approved 100% Construction Plans in 11" x 17" format, Final Technical specifications (One (1) original not bound, and four (4) copies bound, Final Opinion of Probable Cost, flash drive with 100% Construction Plans (CADD files (Microstation) and PDFs), Final Opinion of Probable Cost in excel, draft and final meeting minutes).

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Assumptions/Clarifications:

Assumptions and exclusions for this Scope of Work include:

- 1. The City's Infoworks hydraulic model is up to date and reflects the existing system hydraulic conditions accurately as of issuance of NTP and no calibration is required. Any model updates or modeling of additional scenarios will require additional compensation.
- 2. Stantec will add the existing gravity sewer in the basin being evaluated. Gravity pipeline data, including pipe sizes and invert elevations, is available in electronic (GIS format) or record drawings in pdf and will be provided by the City.
- 3. Stantec assumes the existing model was calibrated with existing field pressure data. This scope does not include purchasing or installation of pressure loggers at key locations to validate existing model.
- 4. Design for any Temporary Works (e.g. excavation, shoring, sheeting, or stabilization of pits or excavations) is not included. Minimum requirements will be included in Technical Specifications.
- 5. Transient analysis is not required for either replacement of water mains or force mains.
- 6. Design for relocation of other utilities (gas, electric, telecommunications etc.) is not included in this scope of work.
- 7. Chain-link fencing with privacy slats at the PS site is not included in this scope of work. PS will be screened with new shurbs.
- 8. Lighting plans for the PS site is excluded from scope of work.
- 9. Scope of work does not include submittals to City of Miami Beach Design Review Board, City of Miami Beach Historical Preservation Board, or City of Miami Beach Planning Department
- 10. Subsurface geotechnical investigations have been completed for the roadway design and provide sufficient data and design recommendations to complete the gravity sewer main design. Available data and geotechnical reports will be provided to the Engineer.
- 11. Additional Geotech information will be provided by the City at the PS sites to support design of the new Pump Stations.
- 12. CAD drawings will be in Microstation (FDOT Requirements)

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- 13. With the exception of the design of the wet well and PS Structures, no other structural analysis or design is required for this project.
- 14. Design and/or specification of cathodic protection systems is not required for this project.
- 15. Summary of Water and sanitary valve box & manhole adjustment provided a tabular table.
- 16. Design of sheet piling is not required for this project.

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- 17. Prepare backout Utility Work Schedule for City of Miami Beach to review and sign. City will review schedule and submit to FDOT.
- 18. Line and lay drawings and fitting schedules are not required for this project.
- 19. Project limits of proposed water, force main and gravity sewer utility improvements do not extend beyond the limits of the proposed FDOT roadway construction.
- 20. Engineer shall prepare and make a total of four submittals to City of Miami Beach for review (60%, 90%, Permit Set, and 100% Plans). Engineer shall be entitled to additional compensated for additional and/or supplemental submittal requests.
- 21. Engineer shall prepare and make a total of 8 submittals to FDOT which coincide with the 60%, 90%,100%, PS&E, Plans Completed, Production Date, Plans to specs and plans to Tally per Project Schedule milestones.
- 22. Environmental services for contamination clean-up, if encountered, would be additional services and Stantec will be entitled for any effort required.
- 23. This scope does not include pump drawdown tests for existing sewer pump stations, or installations of pressure loggers to verify existing pumping conditions.
- 24. Permitting with City of Miami Beach Urban Forestry or Public Works is not included as part of this scope.
- 25. This scope does not include permitting with DERM's following departments Pollution Remediation Section, Water Control, or obtaining Class I Class VI permits.
- 26. Permit fees will not be paid by City of Miami Beach.
- 27. Coordination of Temporary Construction Easements with private property owners are not included as part of this scope.

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- 28. This scope only includes a design for up to one new pump station. Design of any additional pump station will require additional compensation.
- 29. This proposal assumes the pump station location include the minimum required footprint to accommodate a new pump station, access driveway, harmonize flood elevation elements, and minimum clearances. If a new location is required based on limited PS site area, Stantec will request for additional compensation to evaluate an optimal location.
- 30. Public Outreach is not included in this scope of work

Current FDOT Projects Information

Project Manager: Raymond Valido, P.E.

Contact Number: (305) 470-5162

Email: Natalie. raymond.valido@dot.state.fl.us

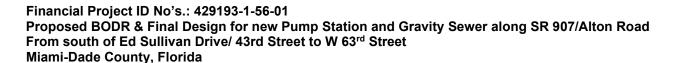
FDOT Scope of Work: Roadway reconstruction, intersection improvements, milling and resurfacing, adjustment of valves and manholes, sidewalk and curb ramps, signing and pavement markings signalization.

Production Schedule:

Plans Completed – February 24th, 2023

PS&E - August 19th, 2024

Letting Date – October 30th, 2024





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Exhibit B - Work Effort Spreadsheet

FINANCIAL PROJECT No.: 429193-1-56-02

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ESTIMATE OF WORK EFFORT AND FEE



CONSULTANT: STANTEC CONSULTING SERVICES INC.

WPI NO.: N/A

DESCRIPTION: Proposed BODR, New Pump Stations and Force Main JPA Installation on SR 907/Alton Road.

CONST. Y	R. 2024	COUNTY:	MIAMI-DAD	E	D	From:	Michigan Ave	*	uth of 43 Stre		mon on bit y	777 Hon Road.
	Г				-	MANHOURS	U					
		W O R K	A DESIGN ANALYSIS & PLANS	B POST DESIGN SERVICE	TOTAL WORK EFFORT	MANIOCKS			HOURLY RATE (W/OUT OM)	FIXED FEE (OM)	TOTAL HOURLY RATE	ESTIMATED COST
	CLASSIFICATION	%				ELEMENTS			0111)			
S	CHIEF ENGINEER	5%	116	14	130					\$ 23.52	\$ 234.95	\$30,543.50
T	PROJECT MANAGER	15%	348	43	391				\$ 184.15		\$ 204.63	\$80,010.33
A	SENIOR ENGINEER	30%	697	86	783					\$ 16.71	\$ 166.91	\$130,690.53
N T	PROJECT ENGINEER	15%	348	43	391					\$ 13.18		\$51,490.79
T E	SR. ENGINEERING TECHNICIAN	35%	813	100	913				\$ 79.32	\$ 8.82	\$ 88.14	\$80,471.82
C	SUB TOTAL	100%	3,693	286	2608		STA	NTEC SUB TOT	AL		\$143.10	\$373,206.97
Н			0		0				\$ 75.48	\$ 8.12	\$ 83.60	\$0.00
H A			0		0				\$ 45.95		\$ 50.89	\$0.00
D			0		0				\$ 90.68			\$0.00
О			0		0				\$ 40.42			\$0.00
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E							НА	DONNE SUB TO	AL		0	\$0.00
SOFT-DIG SURVEY	SURVEY 4-MAN CREW- DAYS											
SURVEI	20 SOFT DIGS & Survey for PS	100%	26.00		26		W. DOM) A T	26	\$1,215.44	\$31,601.44
	l L							NE SURVEY TO				\$31,601.44
Б.:	D F Cl 1		,	If revised estima	ite, give reas	ons for revisions		TOTAL CONT			TIONS-(STA	
Estimator	Dave E. Clarke							* *	l Loaded Salar	•	1)	\$373,206.97
Date:	5/11/2022							(b)		VERHEAD		\$0.00
								(c)	FCCM ⁽³⁾	NG MARGI	IN ⁽⁻⁾	\$0.00
a		1 1: 0 1		-				(d)		···········(4)		\$0.00
Services fo	or Hadonne Sub consultant are inclu	ided in Sub a	ectivities 5 &	6				(e)	DIRECT E	XPENSE		\$0.00
							SUB TOTAL	L CONTRACT A	MOUNT (LU	MP SUM)	-STANTEC	\$373,206.97
Notes:								TOTAL CONT	RACT FEE C	OMPUTA	TIONS (HA	DONNE)
(1)	$Total\ Overhead\ (General) = Included$	in (a) Total L	oaded Salary					(a) Tota	l Loaded Salar	-		\$0.00
(2)	Operating Margin = Included in (a) Te	otal Loaded S	Salary					(b)		VERHEAD ⁽		\$0.00
(3)	Facilities Capital Cost of Money (FCC	C) = Included	in (a) Total L	oaded Salary				(c)		NG MARGI	IN ⁽²⁾	\$0.00
(4)	Direct Reimbursables (Out-of-Picket)	= Included in	n (a) Total Loa	ided Salary				(d)	FCCM ⁽³⁾			\$0.00
								(e)	DIRECT E	XPENSE ⁽⁴⁾		\$0.00
								TOTAL CONTRA	CT AMOUNT (LUMP SUM	1)-HADONNE	\$0.00
							SUB TOTA	L CONTRACT	AMOUNT (L	UMP SUM	1)-SURVEY	\$31,601.44
						(GRAND TO	ΓAL CONTRA	CT AMOU	NT (LUI	MP SUM)	\$404,808.41



CONSULTANT: STANTEC CONSULTING SERVICES INC.

	WPI NO.	: STANTEC CONSULTING	G BERT ICES IIVC.	DESCRIPTION: P	Proposed BODR Ne	w Pump Static	ons and For	ce Main IPA In	stallation on SR 907/Alton Ro
COLUMN VID. AND A		: MIAMI-DADE		_					Standardi di di 70///titoli Ro
CONST. YR. 2024	COUNTI	. MIAMI-DADE			rom: Michigan Av	e	10: South	of 43 Street	
	W		MANHOUR	S					
	O R K	BODR AND PM TOTAL HOURS				HOURLY RATE (W/OUT	FIXED FEE (OM)	TOTAL HOURLY RATE	ESTIMATED COST
TASKS	%		ELEMENT	s	,	OM)			
BOD	R	220							\$31,484.20
PM & COORDINATIO	N	153							\$21,895.83
SUB TOTA	L	373		STAN	TEC SUB TOTAL	4			\$53,380.03
		T	MANHOUN			1		<u> </u>	
	W		MANHOUR	is I		HOURLY			
	O R K	WATER MAIN TOTAL HOURS	TOTAL SHEETS			RATE (W/OUT	FEE (OM)	TOTAL HOURLY RATE	ESTIMATED COST
TASKS	%		ELEMENT	s		OM)	, ,		
UPDATE 90% PLAN	S	266	38						\$38,056.97
SUB TOTA		266	38	STAN	TEC SUB TOTAL				\$38,056.97
30B 101A	-	200	36	SIAN	TEC SUB TOTAL	1		<u> </u>	330,030.77
			MANHOUR	S					
	W		MIL III OU			HOURLY	THE PARTY OF THE P	mom. r	
	O R	GRAVITY SEWER TOTAL HOURS	TOTAL SHEETS			RATE	FIXED FEE	TOTAL HOURLY	ESTIMATED COST
	K	TOTAL HOCKS				(W/OUT OM)	(OM)	RATE	
TASKS	%		ELEMENT	S		0)			
30% PLAN	S	204	16						\$29,194.44
60% PLAN		332	22						\$47,512.52
90% PLAN		216	22					<u> </u>	\$30,906.12
100% PLAN	S	134	22				<u> </u>		\$19,176.74
SUB TOTA	L	886	22	STAN	TEC SUB TOTAL				\$126,789.82
	W		MANHOUR	s			I		
	О	PS & FM TOTAL				HOURLY RATE	FIXED	TOTAL	
	R K	HOURS	TOTAL SHEETS			(W/OUT	FEE (OM)	HOURLY RATE	ESTIMATED COST
TASKS	%			<u>.</u>		OM)	(01)	Litte	
DESIGN ANALYSI	S	151							\$21,609.6
30% PLAN		59	2						\$8,443.4
60% PLAN 90% PLAN		260 130	19 19	 		-	-	-	\$37,208.60 \$18,604.30
90% PLAN 100% PLAN		65	19	+	-	 	 	+	\$18,604.3
TOOTOTEME	1								
SUB TOTA	L	665	19	STAN	TEC SUB TOTAL		ļ		\$95,168.15
		ı	MANHOUR	ie.			1		_
	W O		MANHOUR	.a 	ı	HOURLY	FIXED	TOTAL	
	R	PERMITTING & POST DESIGN (FM, PS, SS)				RATE	FEE	HOURLY	ESTIMATED COST
	K	DESIGN (FM, 13, 33)				(W/OUT OM)	(OM)	RATE	
TASKS	%	100		T T		,	<u> </u>		***
PERMI POST DESIG		132 286		+		-	-	-	\$18,890.52 \$40,921.48
FOST DESIG	1	200					 		φ+0,721.4-
SUB TOTA	L	418		STAN	TEC SUB TOTAL			\$59,812.0	
					STANTEC TOTA			2608	\$373,206.97
				STAN	TEC TOTAL SHI	EET COUNT		79	
				SURVEY AND SUE SERVICES 0 \$31,601.4 GRAND TOTAL CONTRACT AMOUNT \$404,808.4					
				GRAND	TOTAL CONTRA	ACT AMOU!	VI		\$404,808.41

Proposed BODR, New Pump Stations and Force Main JPA Installation on SR 907/Alton Road. FINANCIAL PROJECT No.: 429193-1-56-02 BODR, New Pump Statios and Force Mains

ACTIVITY: A. (BODR and Preliminary Sketches) FM & PUMP STATION & GRAVITY SEWER

SUBACTIVITY: 1 (Design Analysis)

	TASK	BASIS OF ESTIMATE	NO. OF UNITS	HOURS/ UNIT	NO. OF SHEETS	TOTAL HOURS	CADD HOURS	REMARKS
1	Review of Sewer System Master Plan and hydraulic model developed by Hazen and Sawyer for City of Miami Beach.	LS	1	35		35		
2	Hydraulic and Modeling Evaluation and calculations to validate number of pump stations proposed, size of new force mains & size of relocated gravity sewer mains	LS	1	35		35		
3	Performing easement research and coordinating proposed sketches	EA	0	0		0		For 1 PS site
4	Draft BODR	LS	1	80		80		
5	Final BODR Including Workshop	LS	1	60		60		
6	Preliminary drawings illustrating the PS site layout and new force main.	EA	1	30		30		Civil Demo/Existing, Civil Site Plan, & Mechanical Section
7	Hydraulic Calculations for Pump Selection	EA	1	40		40		Assume 40 hrs for each station
8	Structural Calculations for PS buoyancy, wet well structure	EA	1	20		20		Assume 20 hrs for each station
9	Coordinate with FPL for preliminary power upgrade, easement requirements,	EA	1	20		20		
10	Coordinate collection of field data for survey, geotech and SUE	LS	1	10		10		
11	Obtain utility design ticket and existing utility information	EA	12	2		24		Obtain Sunshine Onecall design ticket and existing utility information from UA/Os
12	Field Reviews	EA	3	8		24		Estimate is for 1 field visits @ 4 hours each (2 persons) and includes preparation, travel, and documentation time.
13	Contract File (Set-up and maintenance)	LS	1	50		50		Setup project, maintenance of files, schedule updates, sub-consultant management, progress reports etc. Assume approx 4 hrs per month for 12 months
14	FDOT Computation Book & Quantities	LS	1	24		24		Quantities based on PS and new pipeline alignment
15	Bidding Support	LS	1	40		40		
16	Meeting Via Teams	EA	1	4		4		Meetings with City of Miami Beach and FDOT; Kick off meeting with City to discuss report and hydraulic model Meeting with FDOT to discuss location and alignment prior to development of 60% design deliverable.
17	Meetings In-Person	EA	1	4		4		Meetings with City of Miami Beach and FDOT; Kick off meeting with City to discuss report and hydraulic model Meeting with FDOT to discuss location and alignment prior to development of 60% design deliverable.
			500					
18	Quality Assurance/Quality Control	%	5%			25		
			525					

Proposed BODR, New Pump Stations and Force Main JPA Installation on SR 907/Alton Road. FINANCIAL PROJECT No.: 429193-1-56-02 <u>BODR</u>, New Pump Statios and Force Mains

ACTIVITY: A. (PS and FM PLANS)

SUBACTIVITY:2 (Construction Plans 30%)

	TASK	BASIS OF ESTIMATE	NO. OF UNITS	HOURS/ UNIT	NO. OF SHEETS	TOTAL HOURS	CADD HOURS	REMARKS
1	Cover Sheet and Index	Chart	Pump 0	Stations Dra	wings-Gener	al/Civil		Instituted with Courts Course
_		Sheet	0	0		0		Included with Gravity Sewer
2	Legend and Key Plan	Sheet		-				Included with Gravity Sewer
3	General Notes, Abbreviations and Piping Schedule Standard Details	Sheet	0	0		0		Included with Gravity Sewer Included with Gravity Sewer
5	Prop Site/Grading Plan	Sheet	1	ő		ő		Not part of 30% submittal
6	SWPPP	Sheet	1	0		0		Not part of 30% submittal
7	PS Plans and Sections & Details	Sheet	Pum _j	Stations Dr 48	awings-Mech	anical 48		
F-	1 o Tians and deciding & Details	Ollect			rawings-Stru			
8	Notes and Symbols	Sheet	1	0		0		Not part of 30% submittal
9	Valve Vault and Wet well	Sheet	1	0		0		Not part of 30% submittal
10	Foundation Support	Sheet	1	0		0		Not part of 30% submittal
11	Structural Details	Sheet	1	0		0		Not part of 30% submittal
		P	ump Station	s Drawings-I	lectrical & I	nstrumentati	ion	
12	Notes and Symbols	Sheet	1	0		0		Not part of 30% submittal
13	Elec Site Plan and Equipment Elevations	Sheet	2	0		0		Not part of 30% submittal
14	Grounding Plan	Sheet	1	0		0		Not part of 30% submittal
15	Single Line & Riser Diagram	Sheet	1	0		0		Not part of 30% submittal
16	Electrical Details	Sheet	1	0		0		Not part of 30% submittal
17	Pump Control Panel Schematic	Sheet	1	0		0		Not part of 30% submittal
18	Control Panel Details	Sheet	1	0		0		Not part of 30% submittal
19	RTU Installation and Wiring Diagrams	Sheet	2	0		0		Not part of 30% submittal
20	Schedules	Sheet	1	0		0		Not part of 30% submittal
				Force Main	Drawings-	I		
21	Key Sheet/Key Plan	Sheet	0	0		0		Included with Gravity Sewer
22	General Notes	Sheet	0	0		0		Included with Gravity Sewer
23	Legend and Key Plan	Sheet	0	0		0		Included with Gravity Sewer
24	Tabulation of Quantities and Lateral Tables	Sheet	0	0		0		Included with Gravity Sewer
25	8"/10"/12" Force main Plan	Sheet	1	8		8		
26	Structural Details	Sheet	0	0		0		
27	Standard Details including Gravity Sewer Details	Sheet	0	0		0		
28	Special Details	Sheet	0	0		0		
29	Pavement and Base Restoration/General Notes and Details	Sheet	0	0		0		
30	Core Boring Reports	Sheet	0	0		0		
31	Traffic Control Notes	Sheet	0	0		0		
32	Traffic Control Typical Sections	Sheet	0	0		0		
33	Traffic Control Plan	Sheet	0	0		0		
34	Electronic Delivery	LS	0	0		0		
35	Phase Review Meetings	EA	0	0		0		
	•	56		•				
36	Quality Assurance/Quality Control	%	5%			3		
			9	SUBACTIVI	TY TOTAL	59		

Proposed BODR, New Pump Stations and Force Main JPA Installation on SR 907/Alton Road. FINANCIAL PROJECT No.: 429193-1-56-02 <u>BODR, New Pump Statios and Force Mains</u>

ACTIVITY: A. (PS and FM PLANS)

SUBACTIVITY:2 (Construction Plans 60%)

	TASK	BASIS OF ESTIMATE	NO. OF UNITS	HOURS/ UNIT	NO. OF SHEETS	TOTAL HOURS	CADD HOURS	REMARKS
		01 1		Stations Dr	awings-Gene			
1	Cover Sheet and Index	Sheet	0	0		0		Included with Gravity Sewer
2	Legend and Key Plan	Sheet	0	0		0		Included with Gravity Sewer
3	General Notes, Abbreviations and Piping Schedule	Sheet	0	0		0		Included with Gravity Sewer
5	Standard Details Prop Site/Grading Plan (including Landscaping)	Sheet Sheet	0	0 16		0 16		Included with Gravity Sewer
6	SWPPP	Sheet	1	16		16		
	L			p Stations D	rawings-Mee			
7	PS Plans and Sections & Details	Sheet	1	24 np Stations D	manuface Sta	24		
8	Notes and Symbols	Sheet	1	8	rawings-3tr	8		
9	Valve Vault and Wet well	Sheet	1	36		36		
10	Foundation Support	Sheet	1	20		20		
11	Structural Details	Sheet	1	16		16		
			ump Station	s Drawings-	Electrical &		tion	
12	Notes and Symbols	Sheet	1	8		8		
13	Elec Site Plan and Equipment Elevations	Sheet	2	12		24		
14	Grounding Plan	Sheet	1	8		8		
15	Single Line & Riser Diagram	Sheet	1	8		8		
16	Electrical Details	Sheet	1	8		8		
17	Pump Control Panel Schematic	Sheet	1	8		8		
18	Control Panel Details	Sheet	1	8		8		
19	RTU Installation and Wiring Diagrams	Sheet	2	8		16		
20	Schedules	Sheet	1	8		8		
				Force Ma	in Drawings			
21	Key Sheet/Key Plan	Sheet	0	0		0		Included with Gravity Sewer
22	General Notes	Sheet	0	0		0		Included with Gravity Sewer
23	Legend and Key Plan	Sheet	0	0		0		Included with Gravity Sewer
24	Tabulation of Quantities and Lateral Tables	Sheet	0	0		0		Included with Gravity Sewer
25	8"/10"/12" Force main Plan	Sheet	1	16		16		
26	Structural Details	Sheet	0	0		0		
27	Standard Details including Gravity Sewer Details	Sheet	0	0		0		
28	Special Details	Sheet	0	0		0		
29	Pavement and Base Restoration/General Notes and Details	Sheet	0	0		0		
30	Core Boring Reports	Sheet	0	0		0		
31	Traffic Control Notes	Sheet	0	0		0		
32	Traffic Control Typical Sections	Sheet	0	0		0		
33	Traffic Control Plan	Sheet	0	0		0		
34	Electronic Delivery	LS	0	0		0		
35	Phase Review Meetings	EA	0	0		0		
			SUBA	CTIVITY SI	UBTOTAL	248		
36	Quality Assurance/Quality Control	%	5%			12		
			S	UBACTIVIT	TY TOTAL	260		

Proposed BODR, New Pump Stations and Force Main JPA Installation on SR 907/Alton Road. FINANCIAL PROJECT No.: 429193-1-56-02 <u>BODR, New Pump Statios and Force Mains</u>

ACTIVITY: A. (PS and FM PLANS)

SUBACTIVITY:2 (Construction Plans 90%)

	TASK	BASIS OF ESTIMATE	NO. OF UNITS	HOURS/ UNIT Stations Dr:	NO. OF SHEETS	TOTAL HOURS	CADD HOURS	REMARKS	
1	Cover Sheet and Index	Sheet	0	0	iwings-Gene	0		Included with Gravity Sewer	
2	Legend and Key Plan	Sheet	0	0		0		Included with Gravity Sewer	
3	General Notes, Abbreviations and Piping Schedule	Sheet	0	0		0		Included with Gravity Sewer	
4	Standard Details	Sheet	0	0		0		Included with Gravity Sewer	
5 6	Prop Site/Grading Plan (Including Landscape Plans) SWPPP	Sheet Sheet	1	10		10			
	Pump Stations Drawings-Mechanical								
7	PS Plans and Sections	Sheet	1	12		12			
8	Notes and Symbols	Sheet	Pum 1	p Stations D 4	rawings-Stru	ictural 4			
9	Valve Vault and Wet well	Sheet	1	18		18			
10	Foundation Support	Sheet	1	10		10			
11	Structural Details	Sheet	1	4		4			
	Structural Details			s Drawings-l	Electrical &		tion		
12	Notes and Symbols	Sheet	1	2		2			
13	Elec Site Plan and Equipment Elevations	Sheet	2	6		12			
14	Grounding Plan	Sheet	1	4		4			
15	Single Line & Riser Diagram	Sheet	1	4		4			
16	Electrical Details	Sheet	1	2		2			
17	Pump Control Panel Schematic	Sheet	1	4		4			
18	Control Panel Details	Sheet	1	4		4			
19	RTU Installation and Wiring Diagrams	Sheet	2	4		8			
20	Schedules	Sheet	1	4		4			
			Pump S	Stations Drav	vings-Instru	nentation			
21	Key Sheet/Key Plan	Sheet	0	Force Mai	n Drawings-	0		Included with Gravity Sewer	
22	General Notes	Sheet	0	0		0		Included with Gravity Sewer	
23	Legend and Key Plan	Sheet	0	0		0		Included with Gravity Sewer	
24	Tabulation of Quantities and Lateral Tables	Sheet	0	0		0		Included with Gravity Sewer	
25	8"/10"/12" Force main Plan	Sheet	1	12		12			
26	Structural Details	Sheet	0	0		0			
27	Standard Details including Gravity Sewer Details	Sheet	0	0		0			
28	Special Details	Sheet	0	0		0			
29	Pavement and Base Restoration/General Notes and Details	Sheet	0	0		0			
30	Core Boring Reports	Sheet	0	0		0			
31	Traffic Control Notes	Sheet	0	0		0			
32	Traffic Control Typical Sections	Sheet	0	0		0			
33	Traffic Control Plan	Sheet	0	0		0			
34	Electronic Delivery	LS	0	0		0			
35	Phase Review Meetings	EA	0	0		0			
	•		SUBA	CTIVITY S	UBTOTAL	124		•	
36	Quality Assurance/Quality Control	%	5%			6			
			S	UBACTIVIT	TY TOTAL	130			

Proposed BODR, New Pump Stations and Force Main JPA Installation on SR 907/Alton Road. FINANCIAL PROJECT No.: 429193-1-56-02 BODR, New Pump Statios and Force Mains

ACTIVITY: A. (PS and FM PLANS)

SUBACTIVITY:2 (Construction Plans 100%)

	TASK	BASIS OF ESTIMATE	NO. OF UNITS	HOURS/ UNIT	NO. OF SHEETS	TOTAL HOURS	CADD HOURS	REMARKS
1	Cover Sheet and Index	Sheet	0	Stations Dra	wings-Gener	0		Included with Gravity Sewer
2	Legend and Key Plan	Sheet	0	0		0		Included with Gravity Sewer
3	General Notes, Abbreviations and Piping Schedule	Sheet	0	0		0		Included with Gravity Sewer
4	Standard Details	Sheet	0	0		0		Included with Gravity Sewer
5	Prop Site/Grading Plan	Sheet	1	6		6		
6	SWPPP	Sheet	1 P	6 Stations Da	anina Mad	6		
7	Pump Stations Drawings-Mechanical 7 PS Plans and Sections & Details Sheet 1 8 8							
	Pump Stations Drawings-Structural							
8	Notes and Symbols	Sheet	1	0		0		
9	Valve Vault and Wet well	Sheet	1	8		8		
10	Foundation Support	Sheet	1	6		6		
11	Structural Details	Sheet	1	0		0		
				Drawings-E	lectrical & I		ion	
12	Notes and Symbols	Sheet	1	0		0		
13	Elec Site Plan and Equipment Elevations	Sheet	2	4		8		
14	Grounding Plan	Sheet	1	2		2		
15	Single Line & Riser Diagram	Sheet	1	2		2		
16	Electrical Details	Sheet	1	0		0		
17	Pump Control Panel Schematic	Sheet	1	2		2		
18	Control Panel Details	Sheet	1	0		0		
19	RTU Installation and Wiring Diagrams	Sheet	2	2		4		
20	Schedules	Sheet	1	2		2		
			Pump St	tations Draw Force Mair	ings-Instrun Drawings-	nentation		
21	Key Sheet/Key Plan	Sheet	0	0		0		Included with Gravity Sewer
22	General Notes	Sheet	0	0		0		Included with Gravity Sewer
23	Legend and Key Plan	Sheet	0	0		0		Included with Gravity Sewer
24	Tabulation of Quantities and Lateral Tables	Sheet	0	0		0		Included with Gravity Sewer
25	8"/10"/12" Force main Plan & Profile	Sheet	1	8		8		
26	Structural Details	Sheet	0	0		0		
27	Standard Details including Gravity Sewer Details	Sheet	0	0		0		
28	Special Details	Sheet	0	0		0		
29	Pavement and Base Restoration/General Notes and Details	Sheet	0	0		0		
30	Core Boring Reports	Sheet	0	0		0		
31	Traffic Control Notes	Sheet	0	0		0		
32	Traffic Control Typical Sections	Sheet	0	0		0		
33	Traffic Control Plan	Sheet	0	0		0		
34	Electronic Delivery	LS	0	0		0		
35	Phase Review Meetings	EA	0	0		0		
	SUBACTIVITY SUBTOTAL				UBTOTAL	62		
36	Quality Assurance/Quality Control	%	5%			3		
			SI	UBACTIVIT	TY TOTAL	65		

Proposed BODR, New Pump Stations and Force Main JPA Installation on SR 907/Alton Road. FINANCIAL PROJECT No.: 429193-1-56-02

BODR, New Pump Statios and Force Mains

ACTIVITY: A. (PS and FM PLANS)

	TASK	BASIS OF ESTIMATE	NO. OF UNITS	HOURS/ UNIT	NO. OF SHEETS	TOTAL HOURS	CADD HOURS	REMARKS
1	Prepare Permit Applications FDEP	EA	1	20		20		1 permit applications for 1 PS, 1 for the forcemain and 1 Gravity Sewer
2	Prepare Permit Applications DERM Sewer	EA	1	20		20		1 permit applications for 1 PS, 1 for the forcemain and 1 Gravity Sewer
3	Prepare Permit Applications Building	EA	1	20		20		1 permit applications for 1 PS, 1 for the forcemain and 1 Gravity Sewer
4	Prepare Permit Applications Public Works	EA	1	16		16		1 permit applications for 1 PS, 1 for the forcemain and 1 Gravity Sewer
5	Coordination and RFI with Permitting Agencies	EA	6	8		48		Assume two for PS, FM, GS
6	Permit Meetings	EA	2	4		8		
7	Permit Fees	LS						To be paid by City of Miami Beach. Stantec will request check from City once permit package is ready to be submitted.
			132					

7 of 13 Stantec Project No.: 1773xxxxx

SUBACTIVITY: 3 (Permits)

Proposed BODR, New Pump Stations and Force Main JPA Installation on SR 907/Alton Road. FINANCIAL PROJECT No.: 429193-1-56-02

BODR, New Pump Statios and Force Mains

ACTIVITY: B. (POST DESIGN) FM & PUMP STATION

SUBACTIVITY: 4 (Post Design Services)

	TASK	BASIS OF ESTIMATE	NO. OF UNITS	HOURS/ UNIT	NO. OF SHEETS	TOTAL HOURS	CADD HOURS	REMARKS
1	Post Design Services-Pre-Construction Meeting	EA	2	4		8		Two persons including travel and meeting time
2	Shop Drawing Review	EA	12	6		72		Assume 6 for each PS and FM including resubmittals and 12 for sanil sewer
3	Engineering Assistance & RFI's	EA	12	6		72		PS, FM and San Sewer
4	Change Order Evalution and recommendation	EA	4	6		24		PS, FM and San Sewer
5	Construction Site Visits	EA	4	4		16		
6	Start Up testing	EA	1	12		12		
7	Plans Update & Revisions	EA	8	6		48		PS, FM and San Sewer
8	Review Preliminary As-built Drawings Review	EA	17	2		34		2 Pages for FM Design and 11 Pages for San Sewer
			TY TOTAL	286				

Proposed 8"/10"/12"/18" Gravity Sewer Main JPA Installation on SR 907/Alton Road. FINANCIAL PROJECT No.: 429193-1-56-02 Gravity Sewer Plans

ACTIVITY: A. (GRAVITY SEWER PLANS)

SUBACTIVITY: 2 (Construction Plans 30%)

TASK	BASIS OF ESTIMATE	NO. OF UNITS	HOURS/ UNIT	NO. OF SHEETS	TOTAL HOURS	CADD HOURS	REMARKS
Pipe Line Alignment & Design	LS	1	100		100		
2 Cover Sheet and Index	Sheet	1	8		8		includes PS, FM and Gravity Sewer
3 General Notes, Abbreviations and Piping Schedule	Sheet	1	8		8		includes PS, FM and Gravity Sewer
4 Legend and Key Plan	Sheet	2	8		16		includes PS, FM and Gravity Sewer
5 Tabulation of Quantities and Lateral Tables	Sheet	2	8		16		includes PS, FM and Gravity Sewer
6 Summary of Including Pipe segment, diameter, material, slope and manholes	Sheet	1	8		8		includes PS, FM and Gravity Sewer
7 8"/10"/12"/18" Gravity Sewer Plan/Profile Sheets	Sheet	11	10		110		
8 Laterals Connections to Existing Manholes	Sheet	2	0		0		Not part of 30% Submittal
9 Standard Details	Sheet	2	8		16		includes PS, FM and Gravity Sewer
10 Typical Details	Sheet	0	0		0		
11 Pavement and Base Restoration/General Notes and Details	Sheet	0	0		0		
12 Traffic Control Analysis	LS	0	40		0		Assumed under FDOT project
13 Traffic Control Notes	Sheet	0	0		0		
14 Traffic Control Typical Sections	Sheet	0	0		0		
15 Traffic Control Plan	Sheet	0	0		0		
16 Phase Review Meetings	EA	0	0		0		
17 Prepare Construction Cost Estimate	LS	1	12		12		Engineers estimate of probable cost in FDOT format
18 Special Provisions/ Specifications / TOC	LS	1	0		0		Not part of 30% Submittal
		194					
19 Quality Assurance/Quality Control	%	5%			10		
		S	UBACTIVI	TY TOTAL	204		

Proposed 8"/10"/12"/18" Gravity Sewer Main JPA Installation on SR 907/Alton Road. FINANCIAL PROJECT No.: 429193-1-56-02 Gravity Sewer Plans

ACTIVITY: A. (GRAVITY SEWER PLANS)

SUBACTIVITY: 2 (Construction Plans 60%)

	TASK	BASIS OF ESTIMATE	NO. OF UNITS	HOURS/ UNIT	NO. OF SHEETS	TOTAL HOURS	CADD HOURS	REMARKS
1	Cover Sheet and Index	Sheet	1	6		6		includes PS, FM and Gravity Sewer
2	General Notes, Abbreviations and Piping Schedule	Sheet	1	6		6		includes PS, FM and Gravity Sewer
3	Legend and Key Plan	Sheet	2	6		12		includes PS, FM and Gravity Sewer
4	Tabulation of Quantities and Lateral Tables	Sheet	2	6		12		includes PS, FM and Gravity Sewer
5	Summary of Including Pipe segment, diameter, material, slope and manholes	Sheet	1	8		8		includes PS, FM and Gravity Sewer
6	8"/10"/12"/18" Gravity Sewer Plan/Profile Sheets	Sheet	11	16		176		
7	Laterals Connections to Existing Manholes	Sheet	2	12		24		
8	Standard Details	Sheet	2	4		8		includes PS, FM and Gravity Sewer
9	Typical Details	Sheet	0	0		0		
10	Pavement and Base Restoration/General Notes and Details	Sheet	0	0		0		
11	Traffic Control Analysis	LS	0	20		0		Assumed under FDOT project
12	Traffic Control Notes	Sheet	0	16		0		Assumed under FDOT project
13	Traffic Control Typical Sections	Sheet	0	12		0		Assumed under FDOT project
14	Traffic Control Plan	Sheet	0	0		0		Assumed under FDOT project
15	Phase Review Meetings	EA	2	4		8		Attend Phase Review Meetings with City and FDOT During 60% Submittal.
16	Prepare Construction Cost Estimate	LS	1	16		16		Engineers estimate of probable cost in FDOT format
17	Special Provisions/ Specifications / TOC	LS	1	40		40		
			316					
18	Quality Assurance/Quality Control	%	5%			16		
			332					

Proposed 8"/10"/12"/18" Gravity Sewer Main JPA Installation on SR 907/Alton Road. FINANCIAL PROJECT No.: 429193-1-56-02 Gravity Sewer Plans

ACTIVITY: A. (GRAVITY SEWER PLANS)

SUBACTIVITY: 2 (Construction Plans 90%)

TASK		BASIS OF ESTIMATE	NO. OF UNITS	HOURS/ UNIT	NO. OF SHEETS	TOTAL HOURS	CADD HOURS	REMARKS
1	Cover Sheet and Index	Sheet	1	2		2		includes PS, FM and Gravity Sewer
2	General Notes, Abbreviations and Piping Schedule	Sheet	1	2		2		includes PS, FM and Gravity Sewer
3	Legend and Key Plan	Sheet	2	2		4		includes PS, FM and Gravity Sewer
4	Tabulation of Quantities and Lateral Tables	Sheet	2	4		8		includes PS, FM and Gravity Sewer
5	Summary of Including Pipe segment, diameter, material, slope and manholes	Sheet	1	6		6		includes PS, FM and Gravity Sewer
6	8"/10"/12"/18" Gravity Sewer Plan/Profile Sheets	Sheet	11	12		132		
7	Laterals Connections to Existing Manholes	Sheet	2	6		12		
8	Standard Details	Sheet	2	2		4		includes PS, FM and Gravity Sewer
9	Typical Details	Sheet	0	0		0		
10	Pavement and Base Restoration/General Notes and Details	Sheet	0	0		0		
11	Traffic Control Analysis	LS	0	10		0		Assumed under FDOT project
12	Traffic Control Notes	Sheet	0	8		0		Assumed under FDOT project
13	Traffic Control Typical Sections	Sheet	0	6		0		Assumed under FDOT project
14	Traffic Control Plan	Sheet	0	0		0		Assumed under FDOT project
15	Phase Review Meetings	EA	2	4		8		Attend Phase Review Meetings with City and FDOT During 90% Submittal.
16	Prepare Construction Cost Estimate	LS	1	8		8		Engineers estimate of probable cost in FDOT format
17	Special Provisions/ Specifications / TOC	LS	1	20		20		
			SUBA	CTIVITY S	UBTOTAL	206		
18	uality Assurance/Quality Control			10				
			S	UBACTIVI	TY TOTAL	216		

Proposed 8"/10"/12"/18" Gravity Sewer Main JPA Installation on SR 907/Alton Road. FINANCIAL PROJECT No.: 429193-1-56-02 Gravity Sewer Plans

ACTIVITY: A. (GRAVITY SEWER PLANS)

SUBACTIVITY: 2 (Construction Plans 100%)

TASK		BASIS OF ESTIMATE	NO. OF UNITS	HOURS/ UNIT	NO. OF SHEETS	TOTAL HOURS	CADD HOURS	REMARKS				
1	Cover Sheet and Index	Sheet	1	0		0		includes PS, FM and Gravity Sewer				
2	General Notes, Abbreviations and Piping Schedule	Sheet	1	0		0		includes PS, FM and Gravity Sewer				
3	Legend and Key Plan	Sheet	2	0		0		includes PS, FM and Gravity Sewer				
4	Tabulation of Quantities and Lateral Tables	Sheet	2	2		4		includes PS, FM and Gravity Sewer				
5	Summary of Including Pipe segment, diameter, material, slope and manholes	Sheet	1	2		2		includes PS, FM and Gravity Sewer				
6	8"/10"/12"/18" Gravity Sewer Plan/Profile Sheets	Sheet	11	8		88						
7	Laterals Connections to Existing Manholes	Sheet	2	4		8						
8	Standard Details	Sheet	2	0		0		includes PS, FM and Gravity Sewer				
9	Typical Details	Sheet	0	0		0						
10	Pavement and Base Restoration/General Notes and Details	Sheet	0	0		0						
11	Traffic Control Analysis	LS	0	0		0		Assumed under FDOT project				
12	Traffic Control Notes	Sheet	0	0		0		Assumed under FDOT project				
13	Traffic Control Typical Sections	Sheet	0	0		0		Assumed under FDOT project				
14	Traffic Control Plan	Sheet	0	0		0		Assumed under FDOT project				
15	Phase Review Meetings	EA	2	4		8		Attend Phase Review Meetings with City and FDOT During 100% Submittal.				
16	Prepare Construction Cost Estimate	LS	1	6		6		Engineers estimate of probable cost in FDOT format				
17	Special Provisions/ Specifications / TOC	LS	1	12		12						
	SUBACTIVITY SUBTOTAL											
18	Quality Assurance/Quality Control	ality Assurance/Quality Control % 5%			6							
		134										

Proposed 8"/12" Water Main JPA Installation on SR 907/Alton Road. FINANCIAL PROJECT No.: 429193-1-56-02 <u>Water Main Plans</u>

ACTIVITY: A. (WATER PLANS)

SUBACTIVITY: 2 (Construction Plans 90%)

	TASK	BASIS OF ESTIMATE	NO. OF UNITS	HOURS/ UNIT	NO. OF SHEETS	TOTAL HOURS	CADD HOURS	REMARKS		
1	Pipe Line Alignment & Design	LS	1	40		40		Update of alignment for 12-inch WM along Alton Road .		
2	Key Sheet/Key Plan	Sheet	0	0		0		Update PM and FDOT Design standards and other FDOT project information		
3	General Notes	Sheet	1	6		6		Update FDOT design notes and vertify UA/O contact list from 2018		
4	Legend and Key Plan	Sheet	1	6		6		No change from original scope		
5	Tabulation of Quantities and Pay Item Notes	Sheet	3	6		18		Updating Tabulation of quantities sheets based on updated WM alignment and verifying FDOT description numbers		
6	Summary of Valve and Manhole adjustment	Sheet	0	0		0		No change from original scope		
7	Summary of water meter service and service lines	Sheet	0	0		0		No change from original scope		
8	8"/12" Water main Plan/Profile Sheets	Sheet	11	5		55		Update of plan and profile based on roadway update from FDOT which includes bicycle lane along, additional pavement widening, relocation of drainage inlets, shifting of the curb and gutter, sidewalk and lighting and finally adjusting of the roadway profile.		
9	Laterals Connections Plan/Profile Sheets	Sheet	9	6		54		Update of side street plan and profile based on roadway update from FDOT which includes bicycle lane along, additional pavement widening, relocation of drainage inlets, shifting of the curb and gutter, sidewalk and lighting and finally adjusting of the roadway profile.		
10	Plan/Profile sheets	Sheet	0	0		0		No change from original scope Update of Fire Hydrant profile based on roadway update from FDOT		
11	Fire Hydrant Connection Plan/Profile Sheets	Sheet	4	6		24		Opdate of the Hydrant profile based on roadway update from FDOT which includes bicycle lane along, additional pavement widening, relocation of drainage inlets, shifting of the curb and gutter, sidewalk and lighting and finally adjusting of the roadway profile.		
12	Structural Details	Sheet	0	0		0				
13	General Details	Sheet	0	0		0				
14	Typical Details	Sheet	0	0		0				
15	Pavement and Base Restoration/General Notes and Details	Sheet	0	0		0		No change from original scope		
16	Core Boring Reports	Sheet	0	0		0				
17	Traffic Control Notes	Sheet	0	0		0		No change from original scope		
18	Traffic Control Typical Sections	Sheet	0	0		0		No change from original scope		
19	Traffic Control Plan	Sheet	0	0		0		No change from original scope		
20	Special Provisions / Specifications	LS	1	24		24				
21	Prepare Construction Cost Estimate	LS	1	24		24		Update engineers estimate of probable construction cost in FDOT formats for 60% and 90% resubmittals		
22	Computation Book & Quantities	LS	1	24		24		Update quantities based on the updated pipeline alignment		
23	Electronic Delivery	LS	0	0		0		No change from original scope		
24	Phase Review Meetings	EA	3	6		18		Attend Phase Review Meetings with City and FDOT During 60% Submittal.		
25	FDOT Submittals	EA	0	0		0				
	1		SUB	ACTIVITY S	SUBTOTAL	253				
26	Quality Assurance/Quality Control	%	5%			13				
SUBACTIVITY TOTAL 266										



Financial Project ID No's.: 429193-1-56-01
Proposed BODR & Final Design for new Pump Station and Gravity Sewer along SR 907/Alton Road
From south of Ed Sullivan Drive/ 43rd Street to W 63rd Street
Miami-Dade County, Florida

Stantec Consulting Services Inc.

901 Ponce de Leon Boulevard Suite 900 Coral Gables FL 33134 Tel: (305) 445-2900 Fax: (305) 445-3366

Exhibit C – Preliminary Engineer's Estimate of Probable Construction Cost

ENGINEERS OPINION OF PROBABLE COST OF CONSTRUCTION Quantities on Alton Rd from STA: 91-400 TO 164+00 For City of Miami Beach Est. Construction 02/2025 FDOT Financial Project ID No.: 429193-1-56-01

Ву: LF Check By: Date: Revised: DC 5/19/2022 6/17/2022

3 0551-0603	ITEM		DESCRIPTION	UNITS	QUANTITY	UNIT	PRICE	EX	ENDED COST
2 009-54-009 VILLEY PRE, REMOVER & 009-005, 2"-09" U	12" DIP W	ater Main & Fitti	ngs						
3 0551-0603	1	590-4-101	IRRIGATION SYSTEM BACKFLOW/VACUUM BREAKER PREVENTION	EA	14	\$	-	\$	-
1 1 20 20 20 20 20 20	2	1050-16-002	UTILITY PIPE, REMOVE & DISPOSE, 2" - 4.9"	LF	75		32	\$	2,400.00
5 1909-1909 VITHEY PRINTING A PLACE OUT OF SERVICE, 2" 1.9 5.90 5 1.00 5 9.00	3	1050-16-003	UTILITY PIPE, REMOVE & DISPOSE, 5" - 7.9"	LF	30	\$	35	\$	1,050.00
SOURCE S			UTILITY PIPE, REMOVE & DISPOSE, 8" - 19.9"	LF	230	\$	37	\$	8,510.00
UTILITY PRICE PLACE & FLACE OF OT SERVICE, 2" U 3,250 5 13 7,800	5	1050-18-002	UTILITY PIPE, PLUG & PLACE OUT OF SERVICE, 2" - 4.9"	LF	950	\$	10	\$	9,500.00
7 990-18-000 UTILITY PRIE, PLUS & PACK OUT OF SERVICE, 12" 8 800-31-102 UTILITY PRIE, PLUS & PACK OUT OF SERVICE, 12" 9 1590-41-102 UTILITY PRIE, PLUS & PACK OUT OF SERVICE, 12" 10 1900-31-203 UTILITY PRIE, PLUS & PACK OUT OF SERVICE, 12" 11 1900-31-203 UTILITY PRIE, PLUS WATER, 2" 12 1900-31-203 UTILITY PRIE, PLUS WATER, 2" 13 1900-31-203 UTILITY PRIE, PLUS WATER, 2" 14 1900-31-203 UTILITY PRIE, PLUS WATER, 2" 15 1900-31-203 UTILITY PRIE, PLUS WATER, 2" 16 1900-31-203 UTILITY PRIE, PLUS WATER, 2" 17 1900-31-203 UTILITY PRIE, PLUS WATER, 2" 18 1900-31-203 UTILITY PRIE, PLUS WATER, 2" 19 19 19 19 19 19 19 19 19 19 19 19 19 1	6	1050-18-003		LF	415	\$	15	\$	6,225.00
B S059-31-102 UTILITY PER CAUGA NUMBER CONTROL 20 F S S S S S S S S S			UTILITY PIPE, PLUG & PLACE OUT OF SERVICE, 8"	LF					
B S059-31-102 UTILITY PER CAUGA NUMBER CONTROL 20 F S S S S S S S S S	7	1050-19-004			5 260	ė	15	خ	78 000 00
8 9503-1-302 UNITYPREFERENCY,WATER, 2" IF 5374 \$ 45 \$ 2875. 9 1506-1202 UNITYPREFERENCY,WATER, 2" IF 5.175 \$ 5 \$ 28875. 10 10505-1-205 UNITYPREFERENCY,WATER, 2" IF 5.175 \$ 10 \$ 28875. 11 10505-1-205 UNITYPREFERENCY,WATER, 2" IF 7.270 \$ 10 \$ 28875. 12 1505-1-205 UNITYPREFERENCY,WATER, 2" IF 80 \$ 1.275 \$ 1.205 \$ 28875. 13 1505-1-205 UNITYPREFERENCY,WATER, 2" IF 80 \$ 1.275 \$ 1.205 \$ 28875. 14 1505-1-205 UNITYPREFERENCY,WATER, 2" IF 80 \$ 1.275 \$ 1.205 \$ 28875. 15 1505-1-205 UNITYPREFERENCY,WATER, 2" IF 8.105 \$ 200 \$ 1.205 \$ 28875. 15 1505-1-205 UNITYPREFERENCY,WATER, 2" IF 8.105 \$ 200 \$ 1.205 \$ 28875. 16 1505-1-205 UNITYPREFERENCY,WATER, 2" IF 8.105 \$ 200 \$ 1.205 \$ 28875. 17 1055-1-205 UNITYPREFERENCY,WATER, 2" IF 8.105 \$ 200 \$ 1.205 \$ 28875. 18 1205-1-205 UNITYPREFERENCY,WATER, 2" IF 8.105 \$ 200 \$ 1.205 \$ 28875. 19 1505-1-205 UNITYPREFERENCY,WATER, 2" IF 8.105 \$ 200 \$ 1.205 \$ 28875. 19 1505-1-205 UNITYPREFERENCY, WATER, 2" IF 8.105 \$ 2.200	,	1030-16-004	UTILITY PIPE, PLUG & PLACE OUT OF SERVICE, 10"	LF	3,200	۶	15	۶	76,900.00
9 956-41-102 UTILITY PREFERENCE WATER, 2" IF 2,175 \$ 5 5 2,8575 \$ 13 105			UTILITY PIPE, PLUG & PLACE OUT OF SERVICE, 12"	LF	Ī				
10	8	1050-31-102	UTILITY PIPE,F&I,PVC,WATER, 2"	LF	194	\$	45	\$	8,730.00
11 1905-12-100 UTILITY PREFAIL DUCK, MATER 6" LF 25 5 165 5 42,000 13 1905-12-100 UTILITY PREFAIL DUCK, MATER 6" LF 280 5 175 5 165 5 42,000 14 1905-12-100 UTILITY PREFAIL DUCK, MATER 6" LF 280 5 175 5 165 5 42,000 15 1905-12-110 UTILITY PREFAIL DUCK, MATER 6" LF 280 5 175 5 165 5 42,000 15 1905-12-110 UTILITY PREFAIL DUCK, LEROW, 8" EA 43 5 2,000 5 120,000 16 1905-12-112 UTILITY PRITING FALL DUCK, LEROW, 8" EA 40 5 3,000 5 120,000 17 1905-12-120 UTILITY PRITING FALL DUCK, LEROW, 8" EA 40 5 3,000 5 120,000 18 1905-12-120 UTILITY PRITING FALL DUCK, LEROW, 8" EA 40 5 3,000 5 120,000 19 1905-12-120 UTILITY PRITING FALL DUCK, LEROW, 8" EA 40 5 3,000 5 120,000 19 1905-12-120 UTILITY PRITING FALL DUCK, LEROW, 8" EA 40 5 3,000 5 20,000 5 20,000 10 1905-12-120 UTILITY PRITING FALL DUCK, CREATER FOR A STATE FALL DUCK, LEROW, 8" EA 40 5 2,000 5 20,000 5 20,000 10 1905-12-120 UTILITY PRITING FALL DUCK, CREATER FALL DUCK, REPORT FALL DUCK, CREATER FALL DUCK, REPORT FALL DUCK, CREATER FALL DUCK, REPORT FALL DUCK	9	1050-41-102	UTILITY PIPE,F&I,PE,WATER, 2"	LF	5,175	\$	50	\$	258,750.00
12 1960-51-208 UNITAY PREFAID DICLAMATER, 0"	10	1050-51-203	UTILITY PIPE,F&I,DI/CI,WATER 3"	LF	285	\$	100	\$	28,500.00
33 1806-312-08 UNITY PREFAID DICK MATER F	11	1050-51-204	UTILITY PIPE,F&I,DI/CI,WATER 4"	LF	25	\$	165	\$	4,125.00
14 1906-13-12 UILLY PREFAIL DECLARAR, 12" 15 5,196 5 200 5 2,090 1 2,000 1 2,	12	1050-51-206	UTILITY PIPE,F&I,DI/CI,WATER, 6"	LF	280	\$	150	\$	42,000.00
15	13	1050-51-208	UTILITY PIPE,F&I,DI/CI,WATER, 8"	LF	830	\$	175	\$	145,250.00
16	14	1050-51-212	UTILITY PIPE,F&I,DI/CI,WATER, 12"	LF	5,195	\$	200	\$	1,039,000.00
16									
16	15	1055-51-108	UTILITY FITTING,F&I, DI/CI,ELBOW, 8"	EA	52	\$	2,500	\$	130,000.00
17 1959-91-208	16	1055-51-112		EA	40	\$		\$	120,000.00
18	17	1055-51-208		EA	3	\$			7,800.00
19 1055-51-308	18	1055-51-212		EA	26	\$		\$	93,600.00
20 1005-51-312									10,000.00
22 1055-51-503	20							-	28,600.00
22 1055-51-504									
23 1055-51-608									_
24 1060 15 UTILITY STRUCTURE, BELOW GROUND, ADJUST/MODIFY EA 55 \$ 400 \$ 22,000 25 1070-1-1 UTILITY AUXILIARY ITEMS, 8° CONCRETE SLAB FOR GROUND < 2.5° \$ \$ 1,160 \$ 5.00 \$ 5.8000 26 1080-21-100 UTILITY FIXTURE, FAIL 2°, METER/VALVE BOX EA 117 \$ 2.450 \$ 2.86650 27 1080-21-300 UTILITY FIXTURE, RAULY ENDOSE OWNER METER) EA 17 \$ 4.00 \$ 6.800 28 1080-21-300 UTILITY FIXTURE, RAULY ENDOSE (MATER METER) EA 17 \$ 4.00 \$ 6.800 29 1080-23-103 UTILITY FIXTURE, RAULY ENDOSE (MATER METER) EA 1 \$ 5 \$ 5 \$ 5 \$ 6 \$ 5.500 \$ 6.8000 29 1080-23-103 UTILITY FIXTURE, FAIL 2°, SOLD SLEEVE EA 1 \$ 5 \$ 5 \$ 5 \$ 6 \$ 6 \$ 5 \$ 5.00 \$ 6.8000 30 1080-23-103 UTILITY FIXTURE, FAIL 2°, SOLD SLEEVE EA 1 \$ 5 \$ 5 \$ 6 \$ 6 \$ 6 \$ 5 \$ 5.00 \$ 6 \$ 6.8000 31 1080-23-103 UTILITY FIXTURE, FAIL 2°, SOLD SLEEVE EA 1 \$ 5 \$ 5 \$ 6 \$ 6 \$ 5 \$ 5.00 \$ 6 \$ 6.8000 32 1080-23-103 UTILITY FIXTURE, FAIL 2°, SOLD SLEEVE EA 6 6 \$ 5 \$ 5.00 \$ 6 \$ 6.8000 34 1080-23-112 UTILITY FIXTURE, FAIL 2°, SOLD SLEEVE EA 7 \$ 6 \$ 5 \$ 5.00 \$ 6 \$ 6.8000 34 1080-23-112 UTILITY FIXTURE, FAIL 2°, SOLD SLEEVE EA 1 \$ 6 \$ 5 \$ 5.00 \$ 5 \$ 6.8000 35 1080-24-103 UTILITY FIXTURE, FAIL 2°, SOLD SLEEVE EA 3 \$ 7,500 \$ 5 22,500 36 1080-24-104 UTILITY FIXTURE, FAIL 2°, SOLD SLEEVE EA 2 \$ 1,400 \$ 2.8000 37 1080-24-105 UTILITY FIXTURE, FAIL 2°, SOLD SLEEVE EA 2 \$ 1,400 \$ 2.8000 38 1080-24-104 UTILITY FIXTURE, FAIL 2°, SOLD SLEEVE EA 2 \$ 1,400 \$ 2.8000 39 1080-24-104 UTILITY FIXTURE, FAIL 2°, SOLD SLEEVE EA 2 \$ 1,400 \$ 2.8000 30 1080-24-105 UTILITY FIXTURE, FAIL 2°, SOLD SLEEVE EA 2 \$ 1,400 \$ 2.8000 30 1080-24-105 UTILITY FIXTURE, FAIL 2°, SOLD SLEEVE EA 2 \$ 1,400 \$ 2.8000 31 1080-24-105 UTILITY FIXTURE, FAIL 2°, SOLD SLEEVE EA 2 \$ 1,400 \$ 2.8000 32 1080-24-105 UTILITY FIXTURE, FAIL 2°, SOLD SLEEVE EA 2 \$ 5 \$ 5.000 EA 2 1080-24-105 UTILITY FIXTURE, FAIL 2°, SOLD SLEEVE EA 3 \$ 5 \$ 5.000 EA 2 1080-24-105 UTILITY FIXTURE, FAIL 2°, SOLD SLEEVE EA 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5							2 500		15,000.00
S				EA		ب	2,300	ر	13,000.00
25 1070-1-1	24	1060 15	UTILITY STRUCTURE, BELOW GROUND, ADJUST/MODIFY	ΕΛ	55	ė	400	ė	22 000 00
SECOND S				ĽA	 	ې	400	ş	22,000.00
26 1080-21-102	25	1070-1-1	UTILITY AUXILIARY ITEMS, 8" CONCRETE SLAB FOR GROUND < 2.5'	¢ E	1 160	ė	50	ė	50 000 00
7 1980-1-102				31	1,160	۶	50	Ş	58,000.00
27 1080-21-500	26	4000 24 402	LITHITY SIVILIDS SOL AN AASTED WALVE DOV		447		2 450	_	205 550 00
1800-11-500		1080-21-102	UTILITY FIXTURE,F&I, 2", METER/VALVE BOX	EA	11/	\$	2,450	\$	286,650.00
28 1080-21-600	27	1000 24 500	LITHITY SIVILIDE MALVE MASTED BOY ADMIST		47		100	_	c 000 00
199 180-23-103								-	6,800.00
30 1080-23-104									26,600.00
31 1080-23-106								-	-
12 1880-23-108							-	\$	-
33 1080-23-110	31	1080-23-106	UTILITY FIXTURE,F&I,6", SOLID SLEEVE	EA	5		-	\$	-
1080-23-112	32	1080-23-108	UTILITY FIXTURE,F&I, 8", SOLID SLEEVE	EA	6	\$	5,500	\$	33,000.00
34 1080-23-110	33	1080-23-110	UTILITY FIXTURE,F&I, 10", SOLID SLEEVE	EA	1	\$	6,500	\$	6,500.00
1080-24-103	24	1000 22 112	UTILITY FIXTURE,F&I, 12", SOLID SLEEVE	EA	2	-	7.500	4	22 500 00
1380-24-103	34	1080-23-112	UTILITY FIXTURE,F&I, 12", TAPPING SLEEVE	EA	3	\$	7,500	>	22,500.00
1808-24-104 UTILITY FIXTURE,R81, 4", VALVE ASSEMBLY	35	1080-24-103		EA	2	Ś	1.400	Ś	2,800.00
37 1080-24-105 UTILITY FIXTREF,81, 61, VALVE ASSEMBLY	36	1080-24-104		EA					7,000.00
38 1080-24-112 UTILITY FIXTURE FRI, 12", VALVE ASSEMBLY									28,600.00
39 1080-26-102 UTILITY FIXTURE F.R.I. 2", FVO ASSEMBLY EA 20 \$ 3,800 \$ 76,000									112,800.00
1080-16-10.2						T .			
40 1644-113-08 FIRE HYDRANTS (REMOVE) EA 10 \$ 1,000 \$ 61,200	39	1080-26-102			20	\$	3,800	\$	76,000.00
Subtotal WM IMPROVEMENTS S 2,798,390 S 10,000 S 10,000 S 10,000 S 10,000 S 2,798,390	40	16//-112-09			12	ė	5 100	ć	61 200 00
Subtoal WM IMPROVEMENTS \$ 2,798,390									
PS, FM, Gravity Sewer & Laterals	41	1044-300	TINE HIDIANIS (NEWOVE)	LA	10	٦	1,000	٧	10,000.00
PS, FM, Gravity Sewer & Laterals			Cubtotal WM IMPROVEMENTS					ċ	2 700 200 00
1050-18-003			SUDICICAL WINI INTROVENIENTS					Þ	2,750,550.00
1050-18-003	DC 514 C		Lord.	1		1			
1050-18-003 UTILITY PIPE, PLUE OF SERVICE, 5.0-18	PS, FIVI, GI	ravity Sewer & La	terais						
43 1050-31-206	42	1050 10 003	LITHETY PIDE DUILG & DIACE OUT OF CEDITICE E O 40!		4.000		45	_	60,000,00
44 1050-31-208								-	,
45 1055-31-608									391,000.00
46									600,000.00
1050-51-208								-	9,200.00
48									9,200.00
49 1060-11-222									30,000.00
1060-15									18,000.00
1060 16						_			96,000.00
1501-1 UTILITY LIFT STATION SANITARY SEWER (TEMPORARY BY-PASS SYSTEM) 1501-1 UTILITY LIFT STATION SANITARY SEWER (PS 1 at W 28th) Subtotal SAN IMPROVEMENTS Subtotal Entire Project Maintenance of Traffic Mobilization Contingency Fund Construction Engineering Administration (CEA) Subtotal Construction Allowances Subtotal Construction Allowances EA 1 \$ 1,000,000 \$ 1,000,000 \$ 2,295,900 \$ 2,295,900 \$ 407,543 ### April 10,000 ### A				EA					16,000.00
Subtotal SAN IMPROVEMENTS Subtotal Entire Project Maintenance of Traffic Mobilization Contingency Fund Construction Engineering Administration (CEA) Subtotal Construction Allowances EA 1 \$ 1,000,000 \$ 1,000,000 \$ 2,295,900 \$ 2,295,900 \$ 5,094,290 \$ 407,543	51	1060 16	UTILITY STRUCTURE, BELOW GROUND, REMOVE & DISPOSE	EA	9	\$	3,500	\$	31,500.00
Subtotal SAN IMPROVEMENTS Subtotal Entire Project Maintenance of Traffic Mobilization Contingency Fund Construction Engineering Administration (CEA) Subtotal Construction Allowances EA 1 \$ 1,000,000 \$ 1,000,000 \$ 2,295,900 \$ 2,295,900 \$ 5,094,290 \$ 407,543			LITH ITV LIET STATION SANITADY SEMICE /TEMPORARY BY DASS SYSTEMA	EA	1				
Subtotal SAN IMPROVEMENTS \$ 1,000,000 \$ 1,000,000 \$ 2,295,900 \$	52	1201-1	OTILITE ET L' STATION SANTANT SEWER (TENPORART BY-PASS STSTEIN)	ĽA	1	ې	35,000	ې	33,000.00
Subtotal SAN IMPROVEMENTS \$ 1,000,000 \$ 1,000,000 \$ 2,295,900 \$					1		·		
Subtotal SAN IMPROVEMENTS Subtotal Entire Project Maintenance of Traffic percent of construction percent of construction Mobilization Contingency Fund Construction Construction Engineering Administration (CEA) Subtotal Construction Allowances \$ 2,295,900 \$ 407,543 percent of construction percent of construction 10.0% \$ 509,425 percent of construction 6.0% \$ 305,657						1		1	
Subtotal Entire Project \$ 5,094,290 Maintenance of Traffic percent of construction 8.0% \$ 407,543 Mobilization percent of construction 8.0% \$ 407,543 Contingency Fund percent of construction 10.0% \$ 509,425 Construction Engineering Administration (CEA) percent of construction 6.0% \$ 305,657 Subtotal Construction Allowances \$ 1,630,172		1501-1	UTILITY LIFT STATION SANITARY SEWER (PS 1 at W 28th)	EA	1	\$	1,000,000	\$	1,000,000.00
Subtotal Entire Project \$ 5,094,290 Maintenance of Traffic percent of construction 8.0% \$ 407,543 Mobilization percent of construction 8.0% \$ 407,543 Contingency Fund percent of construction 10.0% \$ 509,425 Construction Engineering Administration (CEA) percent of construction 6.0% \$ 305,657 Subtotal Construction Allowances \$ 1,630,172									
Maintenance of Traffic percent of construction 8.0% \$ 407,543 Mobilization percent of construction 8.0% \$ 407,543 Contingency Fund percent of construction 10.0% \$ 509,425 Construction Engineering Administration (CEA) percent of construction 6.0% \$ 305,657 Subtotal Construction Allowances \$ 1,630,172			Subtotal SAN IMPROVEMENTS					\$	2,295,900.00
Maintenance of Traffic percent of construction 8.0% \$ 407,543 Mobilization percent of construction 8.0% \$ 407,543 Contingency Fund percent of construction 10.0% \$ 509,425 Construction Engineering Administration (CEA) percent of construction 6.0% \$ 305,657 Subtotal Construction Allowances \$ 1,630,172									
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			Total Estimated Cost of Utility Work						\$6,724,462.80



Financial Project ID No's.: 429193-1-56-01
Proposed BODR & Final Design for new Pump Station and Gravity Sewer along SR 907/Alton Road
From south of Ed Sullivan Drive/ 43rd Street to W 63rd Street
Miami-Dade County, Florida

Stantec Consulting Services Inc.

901 Ponce de Leon Boulevard Suite 900 Coral Gables FL 33134 Tel: (305) 445-2900 Fax: (305) 445-3366

Exhibit D – Alternatives from for PS and FM Improvements (Basins 28 A, B, C & E) from Wastewater Master Plan

