

TASK ORDER No. 3

Dated this day of , 2024

FORT LAUDERDALE PUBLIC WORKS DEPARTMENT

MELROSE MANORS NEIGHBORHOOD STORMWATER IMPROVEMENTS

PROFESSIONAL SERVICES

This Task Order between the City of Fort Lauderdale, a Florida municipal corporation ("CITY"), and HDR Engineering, Inc., authorized to transact business in Florida ("CONSULTANT"), is pursuant to the Melrose Manors Neighborhood Stormwater Improvements Consultant Services Agreement dated July 5, 2022 and expiring on July 4, 2027 ("MASTER AGREEMENT").

PROJECT BACKGROUND

The Melrose Manors neighborhood lies within the North Fork New River (NFNR) and South Fork New River (SFNR) Watersheds, bounded by SE 31st Avenue to the west, Broward Boulevard to the north, Davie Boulevard to the south, and I-95 to the east (approximately 640 acres). The majority of Melrose Manors is low lying, ranging between 3' to 5' NAVD. The area lacks stormwater infrastructure and has no positive outfall to a receiving water body. Because of this, medium to intense seasonal rainfall causes widespread flooding in the neighborhood. The flooding persists for days or weeks with only soil storage available for drainage.

This task order is part of the larger RFQ No. 12632-626 Consultant Services for Melrose Manors Neighborhood Stormwater Improvements master agreement. As part of the efforts associated with the master agreement, CONSULTANT will provide conceptual engineering, final design, permitting, and bidding services associated with stormwater management improvements to the Melrose Manors neighborhood. These improvements include stormwater collection, treatment, conveyance, and discharge systems.

GENERAL REQUIREMENTS

Design Standards

The CONSULTANT shall be responsible for determining the standards the work shall meet. The design shall include the plans and specifications, which describe the systems, elements, details, components, materials, equipment, and other information necessary for construction.

Quality Control

The CONSULTANT is responsible for the quality control (QC) of their work and of its sub-consultants. The CONSULTANT shall provide to the City the list of sub-consultants which shall be used for this project. This list shall not be changed without prior approval of the CITY. All sub-consultant documents and submittals shall be submitted directly to the CONSULTANT for their independent QC review. The City shall only accept submittals for review and action from the CONSULTANT.

The CONSULTANT shall be responsible for the professional quality, technical accuracy, and coordination of all pre-design services, designs, drawings, specifications, and other services furnished by the CONSULTANT and their sub-consultant(s). It is the CONSULTANT's responsibility to independently QC their plans, specifications, reports, electronic files, progress payment applications, schedules, and project deliverables required by this task order. The CONSULTANT shall provide the CITY with a marked up set of plans and/or specifications showing the CONSULTANT's QC review. Such mark-ups shall accompany the CONSULTANT's scheduled deliverables. The submittal shall include the names of the CONSULTANT's staff that performed the QC review for each component (structures, roadway, drainage, etc.).

Project Schedule

The CONSULTANT shall submit a preliminary project schedule as an exhibit of this task order. The schedule shall be prepared in Microsoft Project and shall utilize an estimated Notice-to-Proceed (NTP), based on best available information.

The CONSULTANT shall submit a final project schedule to the CITY, for approval, within 10 business days after receiving the NTP and prior to beginning work. No work shall commence without an approved schedule. The final schedule shall include design, permitting activities, submittal review timeframes, and other project activities as required to complete the work. The CONSULTANT shall submit updated project schedules as required in the specific scope of services.

Permitting

The CONSULTANT shall coordinate with the CITY and regulatory agencies which may require permits for this project. The CONSULTANT shall provide an estimate of fees and duration associated with the permitting process. The permitting agencies associated with this project include:

- South Florida Water Management District (SFWMD)
- U.S. Army Corps of Engineers (USACE)
- U.S. Coast Guard (USCG)
- Broward County Environmental Protection and Growth Management Department (BCEPGMD)
- Broward County Environmental Licensing and Building Permitting
- CITY' s Department of Sustainable Development (DSD) City Building Permit
- Broward County Health Department (BCHD)

SPECIFIC SCOPE OF SERVICES

The Scope of Services to be provided by CONSULTANT shall be as follows:

Task 1 – Pump Station Basis of Design

- The CONSULTANT will coordinate with the CITY’s technical staff to discuss the CITY’s existing stormwater pump station design requirement and preferences as they relate to architectural, landscaping, pumps and other mechanical equipment, electrical, instrumentation and controls, and operations and maintenance procedures. Based on the information obtained, the CONSULTANT will prepare a Basis of Design Technical Memorandum (TM) that includes hydraulic calculations, drawings, and other documents illustrating the scale and relations of the project components. The TM shall include the following information:
 - Location plans and vicinity map for the two pump station sites.
 - Concept drawings that identify general layout of the proposed pump stations.
 - Summary of the design approach, methodology, and requirements for detailed tasks.
 - Sizing and preliminary selection of major equipment to define electrical loads, building/structure sizes, layout, and site requirements/limitations.
 - General description of the control logic/operational strategy.
 - Design recommendations (electrical and pump mechanical).
 - Hydraulic design calculations and preliminary sizing calculations.
 - Preliminary equipment selections with equipment cut sheets.
 - Architectural rendering of the two pump stations.

The CITY shall provide comments to the CONSULTANT within 14 days of receiving the submittal

Deliverables: The following deliverables shall be provided under Task 1:

- One (1) electronic copy of the Basis of Design Technical Memorandum (TM) (Draft and Final).

Task 2 - 60% Design Submission

- Using the selected conceptual design alternative identified in Task Order No. 1, the CONSULTANT shall prepare the 60% plans submission of Collection System B¹ (see Exhibit B). The 60% design submission shall include the following:
 - Pump station plans
 - Pipeline plan (profile to be included in the 90% Design Submission)
 - Manholes, inlets, and control structures
 - Grading plan, swales, and retention areas
 - Exfiltration trench and pre-treatment structures
 - Outfalls, erosion treatment and energy dissipators
 - Conflict structures

¹ 60% Plans for Collection System A, Stormwater Force mains, and Outfalls are included in Task Order 2.

- Utility relocation plans (water / sewer) due to gravity drainage improvements
- Construction sequence restrictions and phasing
- Materials and methods of installation
- Identification of construction easements, utility easements and temporary easements
- Sections and specialty details
- To identify subsurface soil conditions in the project area, CONSULTANT shall contract the services of a State of Florida licensed geotechnical engineer. The geotechnical engineer will provide a layout of the soil borings and percolation test locations in the field and secure utility clearance through Sunshine State One Call of Florida. The geotechnical firm will perform field exploration and laboratory services for twenty (20) Standard Penetration Tests (SPT) soil borings (ASTM D-1586) to a depth of 15 feet below the existing grade, twenty (20) to a depth of 20 feet below the existing grade, two (2) SPTs to a depth of 70 feet below the existing grade, and six (6) SPTs to a depth of 50 feet below existing grade. In addition, the subconsultant will perform five (5) double ring infiltration tests and five (5) constant head exfiltration tests along the edge of streets and in green spaces as determined by CONSULTANT and in accordance with the South Florida Water Management District (SFWMD) open hole test procedures. Laboratory analysis including visual classification of soil samples in accordance with the Unified Soil Classification System (USCS) and some laboratory testing of selected soil samples for index properties limited to moisture content, full grain size analysis and organic content will be performed. An engineering report providing the results of the SPT borings and exfiltration test program, the soil laboratory testing, and recommendations for the proposed improvements will be provided.
- The CONSULTANT shall submit plans, and specifications for CITY review. The design drawings shall be submitted in 11" x 17" plan sheets. The CITY shall provide comments to the CONSULTANT within 14 days of receiving the submittal.
- The CONSULTANT shall attend one (1) coordination meeting with the CITY to address review comments. CONSULTANT shall prepare the agenda, record and submit meeting minutes.
- The CONSULTANT shall provide an updated schedule in Microsoft Project as part of this submittal package for City review and approval.
- The CONSULTANT shall prepare an opinion of probable construction cost estimate and make the changes to the design if needed to have it within the proposed budget. The cost estimate shall be Class 2 as defined by the Association for Advancement of Cost Engineering International (AACE International) in Recommended Practice 56R-08.
- CONSULTANT will attend a public meeting during this design phase. CONSULTANT will prepare for the meeting by developing a PowerPoint presentation, graphic exhibits, updated handouts, and a response mechanism for inquiries/feedback.

Deliverables: The following deliverables shall be provided under Task 2:

- Three (3) original sets of the 60% design package (11" x 17" plan sheets), together with one (1) electronic copy.
- One (1) copy of the meeting minutes.
- One (1) copy of updated project schedule.
- One (1) copy of the construction cost estimate.
- One (1) hard copy and one (1) CD of the Geotechnical Report.
- Materials for public meeting.

Task 3 – 90% Design Submission

- The CONSULTANT shall incorporate the review comments from the 60% design submission in the 90% design submission. The 90% design submission shall include, at a minimum, the following:
 - Pump station plans
 - Pipeline plan and profile
 - Manholes, inlets, and control structures
 - Grading plan, swales, and retention areas
 - Exfiltration trench and pre-treatment structures
 - Outfalls, erosion treatment and energy dissipators
 - Conflict structures
 - Utility Relocation plans (water / sewer) due to gravity drainage improvements
 - Construction sequence restrictions and phasing
 - Materials and methods of installation
 - Construction easements, utility easements and temporary easements
 - Stormwater Pollution Prevention
 - Sections and specialty details
 - Pavement restoration
- The CONSULTANT shall submit the plans, and specifications for CITY review. The design drawings shall be submitted in 11" x 17" plan sheets. The CITY shall provide comments to the CONSULTANT within twenty (20) business days of receiving the submittal.
- The CONSULTANT shall attend one (1) coordination meeting with the CITY to address review comments. CONSULTANT shall prepare the agenda, record and submit meeting minutes.
- The CONSULTANT shall provide an updated schedule in Microsoft Project as part of this submittal package for City review and approval.
- The CONSULTANT shall prepare an opinion of probable construction cost estimate and. The cost estimate shall be Class 2 as defined by the Association for Advancement of Cost Engineering International (AACE International) in Recommended Practice 56R-08.
- CONSULTANT will attend a public meeting during this design phase. CONSULTANT will prepare for the meeting by developing a PowerPoint presentation, graphic exhibits, updated handouts, and a response mechanism for inquiries/feedback.

Deliverables: The following deliverables shall be provided under Task 3:

- Three (3) original sets of the 90% design package (11" x 17" plan sheets), one (1) electronic copy.
- One (1) copy of the meeting minutes.
- One (1) copy of updated project schedule.
- One (1) copy of the construction cost estimate.
- Material for public meeting.

Task 4 – 100% Design Submission

- The CONSULTANT shall incorporate the review comments from 90% design submission in the 100% design submission. The 100% design submission shall be complete.

- The CONSULTANT shall submit the 100% design submission for CITY review. The design drawings shall be submitted in 11" x 17" plan sheets. The CITY shall provide comments to the CONSULTANT within 10 business days of receiving the submittal.
- The CONSULTANT shall attend one (1) coordination meeting with the CITY to address review comments. CONSULTANT shall prepare the agenda, record and submit meeting minutes.
- The CONSULTANT shall provide an updated schedule in Microsoft Project as part of this submittal package for City review and approval.
- The CONSULTANT shall prepare an opinion of probable construction cost .
- Once all comments are addressed, or if no comments or corrections are necessary, the CONSULTANT shall submit the Final Plans and Specifications, and any other document required for a complete design by the City. CONSULTANT shall provide three (3) original signed and sealed sets of the Final Design Package (24" x 36" plan sheets), together with an electronic copy.
- CONSULTANT will attend a public meeting during this design phase. CONSULTANT will prepare for the meeting by developing a PowerPoint presentation, graphic exhibits, updated handouts, and a response mechanism for inquiries/feedback.

Deliverables: The following deliverables shall be provided under Task 4:

- Three (3) original sets of the 100% design package (11" x 17" plan sheets), together with an electronic copy.
- Three (3) original sets, signed and sealed of the Final Plans and Specifications 100% design package (24" x 36" plan sheets), together with one (1) electronic copy.
- One (1) copy of the meeting minutes.
- One (1) copy of updated project schedule.
- One (1) copy of the construction cost estimate.
- Materials for public meeting.

Task 5 - Permitting

- The CONSULTANT shall obtain the following permits from the CITY, regulatory agencies, and authorities having jurisdiction, for this project.
 - Broward County Environmental Permitting Division – CONSULTANT shall submit permit applications for Environmental Resource License (ERL), Aquatic and Wetland Resources License, Surface Water Management (SWM) License, Tree Removal License, and Fuel Tank License.
 - Broward County Highway Construction and Engineering Division - CONSULTANT shall submit application for Right-of-Way Permit.
 - Florida Department of Transportation - CONSULTANT shall submit application for a Utility Permit.
 - Development Review Committee (DRC) –CONSULTANT shall submit the design drawings for the pump station to DSD – DRC for review and approval. It is anticipated that project renderings and other documentation will be required in support of this application. CONSULTANT shall participate in up to three (3) meetings with DRC members in support of this application.

- Zoning – It is anticipated that the current zoning classification at the pump station site will need to be changed to allow for construction of the proposed stormwater pump station. CONSULTANT shall provide property boundary documentation.
- Building Division –CONSULTANT shall submit the design drawings for the pump station to DSD – Building Division for a preliminary dry run review. Technical comments will be addressed by inclusion into the bid documents or by inclusion through an addendum to the bid documents. CONSULTANT shall participate in one (1) meeting with the Building Division to resolve outstanding issues.
- Engineering Division – It is anticipated that approval and/or review by DSD – Engineering is not required for this project. CONSULTANT has not included any time for this activity within the fee for this project.
- United States Army Corps of Engineers (USACE) –CONSULTANT shall prepare an individual 404 permit application for the pump station discharge force main outfall into the North Fork New River. As part of this task, the CONSULTANT will conduct a benthic resources survey at the two potential outfall locations if requested by USACE. At both locations, the survey area will extend 100 feet upstream and downstream of the proposed outfall discharge point, covering the width of the canal over this 200-ft length. The survey will be performed in accordance with the Florida Department of Environmental Protection (FDEP) Office of Resilience and Coastal Protection Guidance on Surveys for Potential Impacts to Submerged Aquatic Vegetation (December 2020). The location and extent of seagrass beds or seagrass patches identified within the survey area will be mapped using differential Global Positioning System (GPS) equipment. Seagrass species names and growth densities will also be documented in accordance with FDEP guidance. The location and extent of other protected benthic resources (i.e., hard coral colonies, oyster shoals) will be mapped with GPS equipment, and qualitative information (i.e., species names, growth densities) will be recorded for these resources. In addition to benthic resources, information on fish and other wildlife species observed during the benthic resources survey will be recorded. Representative photographs will be taken of protected benthic resources observed within the survey area. A report summarizing the findings from the benthic resources survey will be provided to the Client. This report will include the following: quantitative and qualitative information on protected benthic resources identified within the survey area; figures depicting the location and extent of protected benthic resources; representative photos of protected benthic resources.
- Florida Department of Environmental Protection (FDEP) – CONSULTANT shall prepare FDEP permit applications for new pump stations, gravity lines and force mains. CONSULTANT shall perform a Benthic Resources Survey.
 - The CONSULTANT shall respond to up to three rounds of permit comments from each of the CITY, regulatory agencies, or authorities having jurisdiction.
 - The CONSULTANT shall attend permit meetings with CITY, regulatory agencies, and authorities having jurisdiction, record and prepare meeting minutes, and provide documentation to the CITY.

Task 6 - Bidding Services

- The CONSULTANT shall assist the CITY in preparing the bid documents, including incorporating the CITY's front-end documents.

- The CONSULTANT shall attend the pre-bid meeting. The CONSULTANT shall prepare responses to questions from prospective bidders.
- The CONSULTANT shall review bids to assess the most responsible and responsive bidder and provide the CITY with a recommendation for award of the construction contract.
- The CONSULTANT shall prepare conformed documents. The conformed documents will incorporate addenda issued as well as the executed contract into a final set of construction documents. CONSULTANT shall provide CITY with one (1) electronic PDF copy of the conformed documents.

PROJECT ASSUMPTIONS

- CITY shall provide access to site.
- City shall provide existing electronic CAD files, if available. It is the CONSULTANTS responsibility to verify accuracy.
- It is the CONSULTANT's responsibility to verify existing geometry is acceptable to all permitting agencies.

ADDITIONAL SERVICES

If authorized in writing by the CITY, as an amendment to this Task Order, the CONSULTANT shall furnish, or obtain, Additional Services of the types listed in the MASTER AGREEMENT. The CITY, as indicated in the MASTER AGREEMENT, will pay for these services.

PERFORMANCE SCHEDULE

The CONSULTANT shall perform the services identified in Tasks 1 - 5 within 620 days of the written Notice to Proceed. Task 6 schedules shall be determined based on the bid dates and construction award period.

PROJECT FUNDING

Performance of this project is at the CITY's discretion and may be contingent upon the CITY receiving funding and work shall not begin until the CITY provides a Notice to Proceed to CONSULTANT.

METHOD OF COMPENSATION

The services performed will be accomplished using the Not-to-Exceed method of compensation. The total hourly rates payable by the CITY for each of CONSULTANT's employee categories, reimbursable expenses, if any, and sub-consultant fees, if any, are shown on **Exhibit A** attached hereto and made a part hereof. Pay application requests shall be prepared on the CITY's approved pay application request form. The CONSULTANT shall submit the pay application request to the CITY's Project Manager for review and approval. Once the CITY's Project Manager approves the CONSULTANT's pay application request, the CONSULTANT may submit it to the CITY's accounts payable department via email (AcctsPayable@fortlauderdale.gov) with a copy to the Project Manager. Pay application requests shall be submitted monthly.

TERMS OF COMPENSATION

Services will be provided for the following Not-to-Exceed amounts:

Task 1 – Pump Station Basis of Design	\$127,452.29
Task 2 - 60% Submission	\$702,628.82
Task 3 - 90% Submission	\$923,128.95
Task 4 – 100% and Final Submission	\$45,540.98
Task 5 - Permitting	\$124,752.65
Task 6 – Bidding Services	\$68,695.33
Permit Allowance	\$20,000.00
Geotechnical Field Investigation	\$66,679.37
Reimbursable Expenses	\$10,000
Grand Total	\$2,088,878.39

CITY CONTACTS

Requests for payments should be directed to City of Fort Lauderdale Accounts Payable via e-mail to AcctsPayable@FortLauderdale.gov after getting approval from the CITY's Project Manager. All other correspondence and submittals should be directed to the attention of Juan Carlos Samuel, Project Manager II, at the address shown below. **Please be sure that all correspondence refers to the CITY project number and title as stated above.**

Juan Carlos Samuel, EI, ENV SP
Project Manager II
Public Works
City of Fort Lauderdale
City Hall, 4th Floor Engineering
100 North Andrews Avenue
Fort Lauderdale, FL 33301
(954) 828-6323
JSamuel@fortlauderdale.gov

Rares Petrica, PE
Senior Project Manager
Public Works
City of Fort Lauderdale
City Hall, 4th Floor Engineering
100 N. Andrews Ave.
Fort Lauderdale, FL 33301
(954) 828-6720
RPetrica@fortlauderdale.gov

CONSULTANT CONTACTS

Daniel Suarez, PE
Associate Vice President
HDR Engineering, Inc.
3250 W. Commercial Boulevard
Suite 100
Fort Lauderdale, FL 33309
Email: Daniel.Suarez@hdrinc.com
Phone: (954) 233-4924
Fax: (954) 233-4953

Katie Duty, PE
Vice President
HDR Engineering, Inc.
4830 W. Kennedy Boulevard
Suite 400
Tampa, FL 33609
Email: Katie.Duty@hdrinc.com
Phone: (813) 282-2352

CITY

CITY OF FORT LAUDERDALE, a municipal corporation of the State of Florida.

By: _____
GREG CHAVARRIA
City Manager

Date: _____

ATTEST:

(CORPORATE SEAL)

By: _____
DAVID R. SOLOMAN
City Clerk

Approved as to legal form and correctness:
Thomas J. Ansbro, City Attorney

By: _____
[INSERT ATTORNEY NAME]
[Attorney Title Assistant City Attorney]

Task Order No.: 3
Project No.: P12719
Project Name: Melrose Manors Neighborhood Stormwater Improvements
Consultant: HDR Engineering, Inc.
Contract No.: 12632-626

HDR ENGINEERING, INC.

WITNESSES:

HDR ENGINEERING, INC.,
a Nebraska corporation authorized to
transact business in Florida

Laurence Jules
[Witness print/type name]

Melanie E. Fowler
~~Katie E. Duty, Vice President-~~
Melanie E. Fowler, Vice President

Michelle J. Pardo
Michelle J. Pardo
[Witness print/type name]

STATE OF: FLORIDA

COUNTY OF: HILLSBOROUGH

The foregoing instrument was acknowledged before me by means of physical presence or online notarization, this 17th day of April, 2024, by Melanie E. Fowler as Vice President for HDR Engineering, Inc., a Nebraska company (or corporation).

(SEAL)

Michelle Pardo
(Signature of Notary Public - State of Florida)



MICHELLE J. PARDO
Commission # HH 045144
Expires September 22, 2024
Bonded Thru Budget Notary Services

Michelle J. Pardo
(Print, Type or Stamp Commissioned Name
of Notary Public)

Personally Known X OR Produced Identification _____

Type of Identification Produced: _____

Exhibit A – Work Break Down Fee Schedule

Exhibit A

P12719 MELROSE MANORS DRAINAGE IMPROVEMENTS - TASK ORDER 03

TASK 1 - CONSTRUCTION DOCUMENTS SYSTEM A														
	Intern	Sr. Technician	Engineer	Associate Landscape Architect	Associate Engineer	Project Landscape Architect	Sr. Designer	Project Engineer	Sr. Construction Specialist	Project Manager	Sr Engineer	Sr. Project Manager	Principal	Sub-Total
	\$60.00	\$100.00	\$110.00	\$110.00	\$135.00	\$140.00	\$145.00	\$145.00	\$140.00	\$180.00	\$195.00	\$220.00	\$265.00	
60% Plans											\$25.00			
Gravity drainage plan detailed design		350	200		80		80				24			\$ 84,080.00
Details profiles / conflicts		250	200		120									\$ 63,200.00
Grading Plan / swales / retention / treatment		100												\$ 10,000.00
Outfall route / outfall / canal treatment														\$ -
HDD plans, forcemain and calculations														\$ -
Specialty details -notes - sections		40												\$ 4,000.00
QA/QC				1		1		48	80	1	40	40	20	\$ 40,490.00
Submittals	4											40		\$ 9,040.00
TOTAL HOURS	4	740	400	1	200	1	80	48	80	1	89	80	20	
	TOTAL - TASK 1 - CONSTRUCTION DOCUMENTS SYSTEM A													\$ 210,810.00
TASK 2 - CONSTRUCTION DOCUMENTS SYSTEM B														
	Intern	Sr. Technician	Engineer	Associate Landscape Architect	Associate Engineer	Project Landscape Architect	Sr. Designer	Project Engineer	Sr. Construction Specialist	Project Manager	Sr Engineer	Sr. Project Manager	Principal	Sub-Total
	\$60.00	\$100.00	\$110.00	\$110.00	\$135.00	\$140.00	\$145.00	\$145.00	\$140.00	\$180.00	\$195.00	\$220.00	\$265.00	
Plans														\$ -
Gravity drainage plan detailed design		600	200		400		60	200			100	16		\$ 196,720.00
Details profiles / conflicts		400	180		100		60	180			40	16		\$ 119,420.00
Grading Plan / swales / retention / treatment		240	240		100		60	160			80	24		\$ 116,680.00
Outfall route / outfall / canal treatment														\$ -
HDD plans, forcemain and calculations														\$ -
Specialty details -notes - sections		100	20		40		20	20				8		\$ 25,160.00
QA/QC									80			80	20	\$ 34,100.00
Submittals	4			1		1				1				\$ 670.00
Specs and OPC														\$ -
Quantities			40					10				5		\$ 6,950.00
OPC			80					20				8		\$ 13,460.00
Technical Specs					80								8	\$ 12,920.00
Admin														\$ -
Coordination												40	8	\$ 10,920.00
PM Management												40	8	\$ 10,920.00
TOTAL HOURS	4	1,340	880	1	800	1	200	620	80	1	220	330	44	
	TOTAL - TASK 2 - CONSTRUCTION DOCUMENTS SYSTEM B													\$ 579,130.00
TASK 3: BIDDING ASSISTANCE														
	Intern	Sr. Technician	Engineer	Associate Landscape Architect	Associate Engineer	Project Landscape Architect	Sr. Designer	Project Engineer	Sr. Construction Specialist	Project Manager	Sr Engineer	Sr. Project Manager	Principal	Sub-Total
	\$60.00	\$100.00	\$110.00	\$110.00	\$135.00	\$140.00	\$145.00	\$145.00	\$140.00	\$180.00	\$195.00	\$220.00	\$265.00	
Meetings with Client (2) / Prebid presentation					8							8	1	\$ 3,105.00
Presentation preparation			4		16			2				8		\$ 4,650.00
Review documentation					8			2				4		\$ 2,250.00
Bid comparison	1	1			16	1		2	1	1	1	4		\$ 4,145.00
Answer RFI's					8			2				2		\$ 1,810.00
Clarifications		16			10			2				2		\$ 3,680.00
PM - coordination with subs. QC												8		\$ 1,760.00
TOTAL HOURS	1	17	4	0	66	1	0	10	1	1	1	36	1	
	TOTAL - TASK 3: BIDDING ASSISTANCE													\$ 21,400.00
TASK 4: BENTHIC SURVEY														
	Intern	Sr. Technician	Engineer	Sr. Biologist	Associate Engineer	Project Landscape Architect	Sr. Designer	Project Engineer	Sr. Construction Specialist	Project Manager	Sr Engineer	Sr. Project Manager	Principal	Sub-Total
	\$60.00	\$100.00	\$110.00	\$160.00	\$135.00	\$140.00	\$145.00	\$145.00	\$140.00	\$180.00	\$195.00	\$220.00	\$265.00	
Survey			10	12				1				1		\$ 2,785.00
Report				32									1	\$ 3,785.00
TOTAL HOURS	0	0	10	44	0	0	0	1	0	0	0	1	1	
	TOTAL - PM - coordination with subs. QC													\$ 6,570.00
TASK 5: REIMBURSABLE EXPENSES														
	Intern	Sr. Technician	Engineer	Associate Landscape Architect	Associate Engineer	Project Landscape Architect	Sr. Designer	Project Engineer	Sr. Construction Specialist	Project Manager	Sr Engineer	Sr. Project Manager	Principal	Sub-Total
	\$60.00	\$100.00	\$110.00	\$110.00	\$135.00	\$140.00	\$145.00	\$145.00	\$140.00	\$180.00	\$195.00	\$220.00	\$265.00	
Printing, Deliverables														\$ 5,000.00
TOTAL HOURS	0	0	0	0	0	0	0	0	0	0	0	0	0	
	TOTAL - TASK 5: REIMBURSABLE EXPENSES													\$ 5,000.00
REIMBURSABLE EXPENSES														
	TOTAL FEE													\$ 822,910.00

MELROSE MANORS NEIGHBORHOOD STORMWATER IMPROVEMENT PROJECT

FORT LAUDERDALE, FLORIDA

HR ENGINEERING SERVICES, INC. (HRES)

7815 NW 72nd AVENUE - MEDLEY, FLORIDA 33166

HRES PROJECT No.: HR22-1743R-2

FEBRUARY 15, 2024

UNITS # OF UNIT TOTAL
UNITS RATE \$

1. FIELD EXPLORATION AN LABORATORY SERVICES: 20 SPT BORINGS TO 15 FEET, 20 SPT TO 20 FEET (DRAINAGE PIPES) , 2 SPT TO 70 FEET (PUMP STATIONS), 6 SPT TO 50 FEET (TUNNELS, HEADWALLS), 5 PERCOLATION TESTS, 5 DRI TESTS

1.1) 20 SPT Borings to 15 feet for the stormwater pipes=20x15'=300 feet	feet	300	\$14.00	\$4,200.00
1.1b) 40 SPT Borings to 20 feet for the stormwater pipes=20x20'=400 feet	feet	400	\$14.00	\$5,600.00
1.2a) 4 SPT Borings to 50 feet for the tunnel crossings # 1 & 2=4x50'=200 feet	feet	200	\$14.00	\$2,800.00
1.2b) 2 SPT Borings to 50 feet for the headwalls # 1 & 2=2x50'=100 feet	feet	100	\$14.00	\$1,400.00
1.3a) 2 SPT Borings to 70 feet for the pump stations 1 & 2=2x50' (for the first 50')=100 feet	feet	100	\$14.00	\$1,400.00
1.3b) 2 SPT Borings to 70 feet for the pump stations 1 & 2=2x20' (for the last 20')= 40 feet	feet	40	\$16.00	\$640.00
1.4) Temporary Casing: 0'-50'= 700' (stormwater pipes)+300' (tunnels & headwalls borings)+140' (pump stations)=1,140 feet	feet	1140	\$6.00	\$6,840.00
1.5) Percolation Testing: performing a total of 5 tests to 10 feet	each	5	\$380.00	\$1,900.00
1.6) Double Ring Infiltration Tests (DRI): performing a total of 5 tests	each	5	\$400.00	\$2,000.00
1.7) Grouting Holes: 700' (stormwater pipes)+300' (tunnels & headwalls borings)+140' (pump stations) 50' (perc. Tests)+25' (DRI auger borings)=1,215 feet	feet	1215	\$5.00	\$6,075.00
1.8) Rig Mobilizations	each	2	\$400.00	\$800.00
1.9) Organic Content Tests: 48 boreholes: 8 tests	each	8	\$45.00	\$360.00
1.10) Fines Content Tests: 48 boreholes: 8 tests	each	8	\$45.00	\$360.00
1.11) Grain Size Tests: 48 boreholes: 8 tests	each	8	\$60.00	\$480.00
1.12) Corrosion Testing: Resistivity, Chlorides, pH, Sulfates: 2 tests	each	2	\$130.00	\$260.00
Subtotal Field Exploration				\$35,115.00

52.7%

MELROSE MANORS NEIGHBORHOOD STORMWATER IMPROVEMENT PROJECT

FORT LAUDERDALE, FLORIDA

HR ENGINEERING SERVICES, INC. (HRES)

7815 NW 72nd AVENUE - MEDLEY, FLORIDA 33166

HRES PROJECT No.: HR22-1743R-2

FEBRUARY 15, 2024

2. MOT SERVICES

2.1) MOT Services - Barricades. The percolation tests will take 2 days; the pipe borings 10 days, the structure borings 5.5 days, for a total of 15.5 days. Charge 12 days.	day	12	\$300.00	\$3,600.00	
Subtotal MOT Services				\$3,600.00	5.4%

3. TECHNICIAN SERVICES AND ENGINEERING FOR REPORTING

3.1) Engineering Technician Aid for boring layout, underground utilities (meeting FL 811 personnel): 58 boreholesx0.3=18 hours.	hour	18	\$58.00	\$1,044.00	
3.2) Engineer Intern for boring drafting: drilling 1,140 ft., 11.4 unitsx5=57 hours.	hour	57	\$97.61	\$5,563.77	
3.3) Engineer Intern - Boring description, report preparation support.	hour	60	\$97.61	\$5,856.60	
3.4) Senior Engineering Technician - permit hours (estimating 20 hours).	hour	20	\$115.00	\$2,300.00	
3.5) Professional Engineer - Report Preparation	hour	60	\$125.00	\$7,500.00	
3.6) Senior Engineer for report review, QA/QC	each	30	\$190.00	\$5,700.00	
TOTAL TECHNICIAN SERVICES AND ENGINEERING				\$27,964.37	41.9%

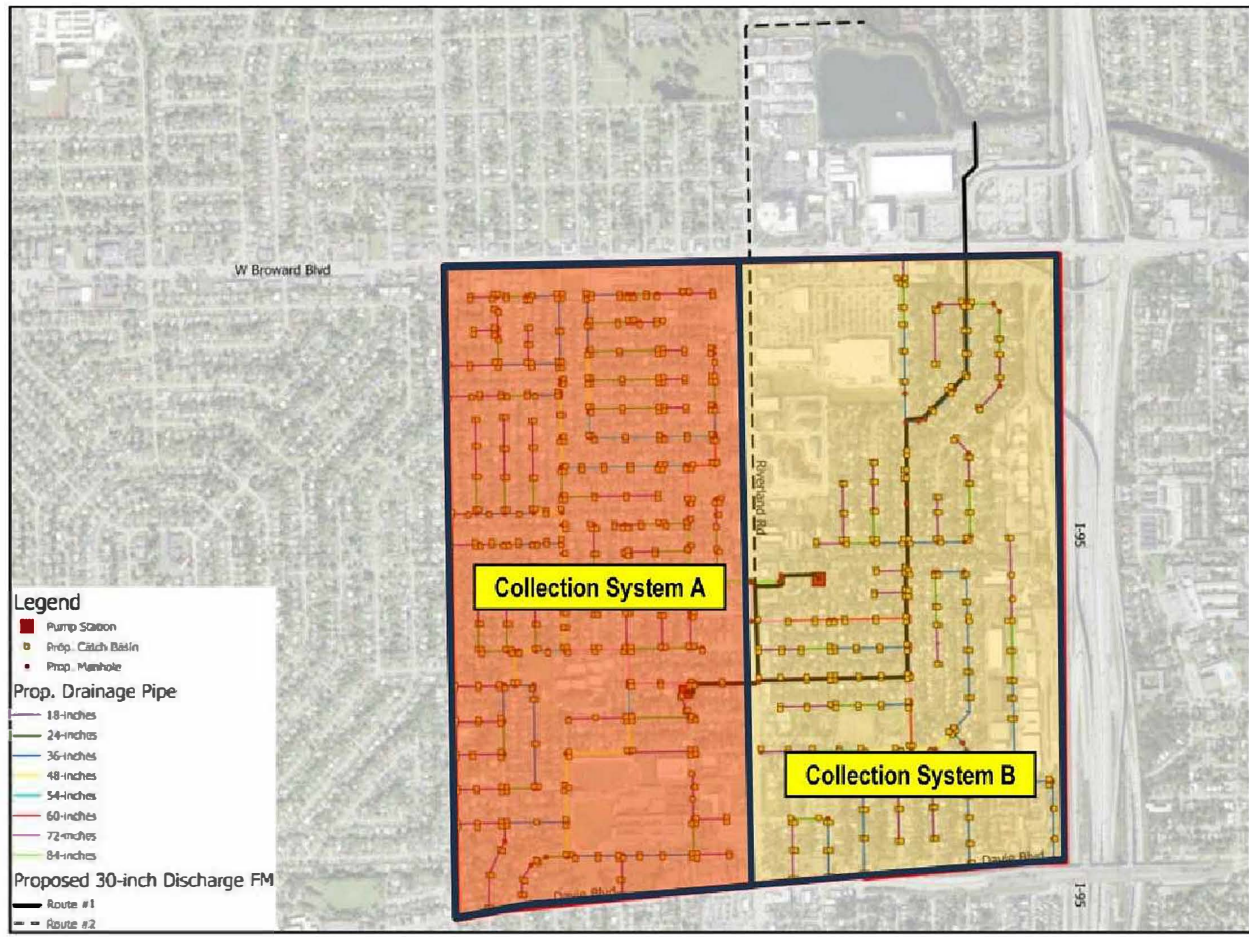
TOTAL FOR GEOTECHNICAL SERVICES				\$66,679.37	100%
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HR ENGINEERING SERVICES, INC.

Hernando R. Ramos

Hernando R. Ramos, PE
Senior Geotechnical Engineer/President

Exhibit B – Location Map



Stormwater management improvements design concept for the Melrose Manors and Riverland communities. Collection System A serves the area west of Riverland Road; Collection System B serves the area east of Riverland Road.

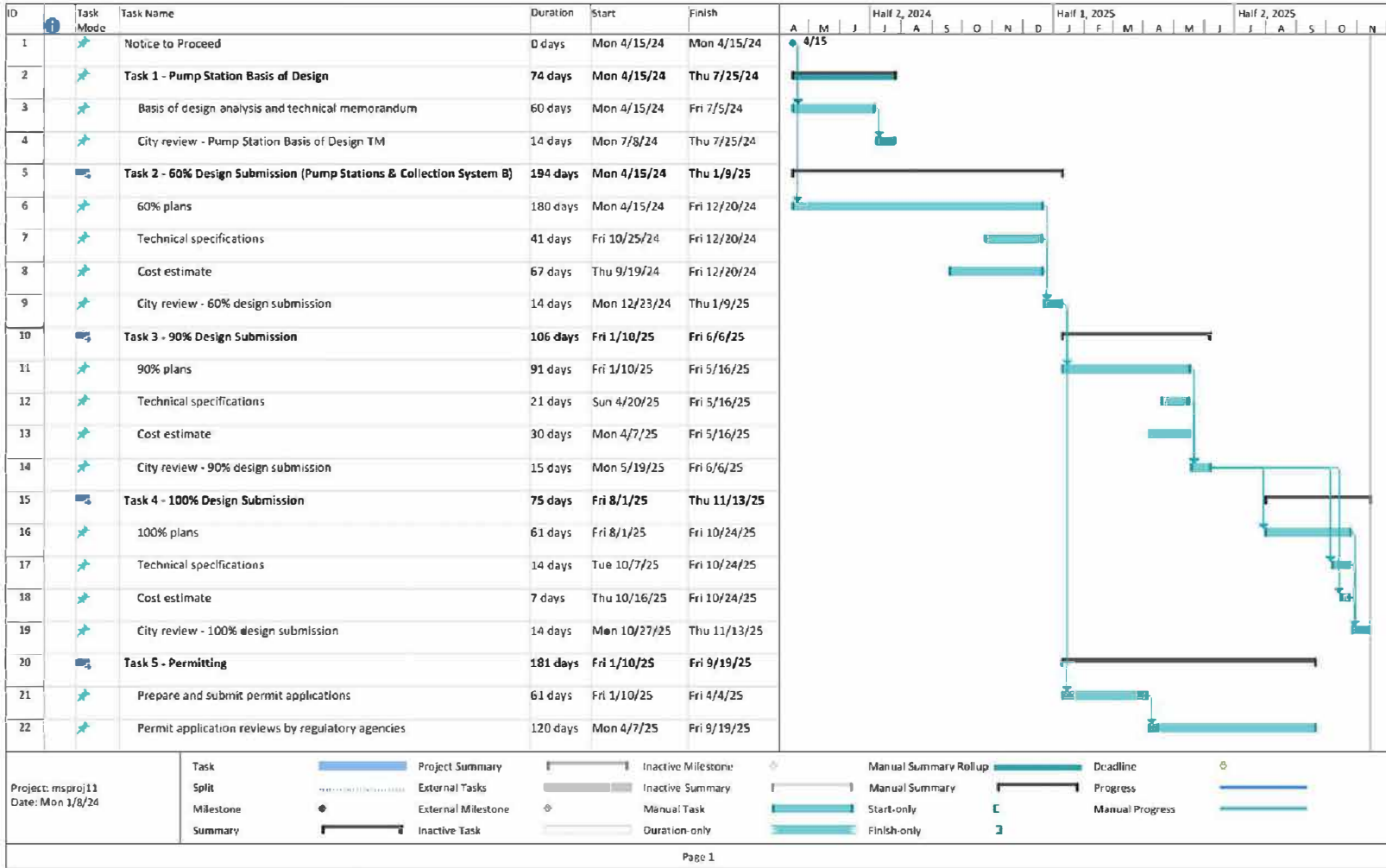


Exhibit C – Project Tentative Schedule

Task Order No.: 3
 Project No.: P12719
 Project Name: Melrose Manors Neighborhood Stormwater Improvements
 Consultant: HDR Engineering, Inc.
 Contract No.: 12632-626