



August 28, 2026

Addendum No. 1
RFP No. 2026-014-NP
Golden Harbour Infrastructure Upgrades

The following Addendum items are amendments to the original contract documents and shall be considered as an integral part of said contract documents and bindings thereon as if bound therein. All items of the Contract documents shall remain intact unless amended by this addendum. Addendum No. 1 is one (1) page and includes three (3) attachments.

A. REVISIONS TO TECHNICAL SPECIFICATIONS

1. Delete Table of Contents page ii in its entirety and replace it with attached Table of Contents page ii – Addendum 1.
2. Delete Technical Specifications Page 01025-5 – Measurement and Payment in its entirety and replace it with Technical Specifications Page 01025-5 – Measurement and Payment - Addendum 1.
3. Delete Appendices A, B, C, D in their entirety and replace them with attached Appendices A, B, C, D – Addendum 1.

B. FILE ATTACHMENTS

1. Table of Contents page ii – Addendum 1
2. Technical Specifications Page 01025-5 – Measurement and Payment - Addendum 1
3. Appendices A, B, C, D – Addendum 1

Neil Phillips
Buyer

Bidder to acknowledge this addendum by completing the addendum acknowledgment section of their bid document and/or by submission of this form with their bid document.

Company Name: _____

Authorized Signature: _____

DIVISION 2 - SITEWORK

02012	Handling and Disposal of Asbestos Cement Pipe
02222	Excavation and Backfill for Utilities
02500	Surface Restoration
02510	Asphaltic Concrete Pavement
02526	Concrete Pavement, Curb and Sidewalks
02580	Pavement Marking and Signs

DIVISION 3 - CONCRETE

03305	Concrete and Grout
03400	Precast Concrete

DIVISION 4 - 14 (NOT USED)

DIVISION 15 - MECHANICAL CONSTRUCTION

15000	Pipe and Fittings, General
15006	Ductile Iron Pipe
15100	Valves, General
15101	Pipe Tapping
15103	Line Stops
15108	Gate Valves
15115	Miscellaneous Valves and Water Service Connections
15995	Pipeline Testing and Disinfection

DIVISION 16 - 17 (NOT USED)

APPENDICES

Appendix A	Appendix A - Addendum 1 - City of Boca Raton Shop Drawings Submittals & Approved Utility Products List
Appendix B	Appendix B - Addendum 1 - Geotechnical Report
Appendix C	Appendix C - Addendum 1 - Permits
Appendix D	Appendix D - Addendum 1 - Meter Size Exhibit

applying prime coat and furnishing all such material to complete to the cross-section and thickness as shown in the Contract Documents including excavation, grading, importing material, transportation, handling, cleaning, positioning, compacting of limerock base to LBR 100 and subgrade to LBR 40, densities passed, removal and disposal of all necessary pavement, base material, subgrade and installation of temporary asphalt as deemed necessary by the Owner.

- b. This pay item includes complete restoration of Traffic Calming Enhanced Speed Humps. See Traffic Calming Construction Detail Enhanced Speed Hump.

Final sod/swale restoration included under this pay item shall include but not limited to the following:

- a. The Contractor is required to mow all sodded areas immediately prior to final acceptance of the project by the City/ owner.
- b. The Contractor shall mow and maintain the sod in a moist condition for a period of at least thirty (30) days after acceptance including payment for the water.
- c. Removal and disposal of existing sod, furnish and install new sod, 4" layer of topsoil, clearing, grading, and disposal of excess material.
- d. Meet the requirements in Section 02500- Surface Restoration, 3.01 Grading and Sodding.
- e. Restoration of irrigation and sod shall be completed within 3 calendar days
- f. Replacement of sod shall match existing sod type.

I. Bid Items 11: Furnish and Install Dip Fittings

The Contractor's bid unit price per ton (TON) shall include all labor, materials, equipment, tools, and incidentals necessary for the complete installation of the underground fittings, gaskets, restraints, stiffeners, adapters, and all other materials for a complete installation, as shown on the Drawings and specified herein.

Weight shall be based on compact fitting weight only, not including restraining glands (megalugs).

j. Bid Items 12 through 14: Furnish & Install New Water/Irrigation Meter with Tier 8 & Tier 15 Traffic Rated Box & Lid (Residential and Non-Residential)

The Contractor's bid unit price per each (EA) shall be full compensation for a complete installation, including the new meter box, brass fittings, poly tubing and adapters, bushings, nipples, unions, tees, any and all tools or materials required for a complete connection, 6-inch thick compacted $\frac{3}{4}$ -inch rock base extended 12-inch beyond the meter box perimeter, bedding, cutting and plugging the existing water service on the City side of the meter, removal and legal disposal of existing water meter box and service, new compacted fill required to restore area due to legal removal and disposal of existing water meter box and service, and all else necessary for a complete and functional installation. New meter box and lid shall be tier 8 traffic rated or unless otherwise shown on the DRAWINGS.

Payment for this item shall be made upon the complete installation of the meter assembly along with providing the completed old and new meter number and reading and new meter

TECHNICAL SPECIFICATIONS

APPENDIX A – ADDENDUM 1 - CITY OF BOCA RATON SHOP DRAWINGS SUBMITTAL AND APPROVED UTILITY PRODUCTS LIST



CITY OF Boca Raton

UTILITY SERVICES DEPARTMENT

1401 GLADES ROAD • BOCA RATON, FL 33431 • PHONE (561) 338-7300 • FAX (561) 338-7345 • www.myboca.us

6.1 SHOP DRAWING SUBMITTALS & APPROVED UTILITY PRODUCT LIST

6.1.1 Shop Drawing Submittals

The Underground Utility Contractor shall submit the following items separately for approval by the City prior to the scheduling of the Preconstruction Meeting.

1. **Three (3) sets of the following attached "City of Boca Raton Approved Product List" pages 1 through 14 to be submitted for the materials on each project. *The First page shall bear the signature of the Underground Contractor and Engineer of Record. The subsequent pages shall bear the initials of the Underground Contractor and Engineer of Record on bottom right corner of every page. One (1) set must bear the original signature and initials; the remaining four (2) sets can be copies. Only one single brand name will be circled in every block of items that will be installed on the project. Do not circle multiple brand names under any single item. Circle "Not applicable" if that block item is not going to be used. If only water distribution materials are going to be used submit Pages 1 through 8. If only sanitary sewer materials are going to be used submit Page 1 and Pages 9 through 15. If only a water service is going to be installed submit Page 1 and Pages 7 and 8.*** For all items not listed on the "City of Boca Raton Approved Products List", the Contractor shall submit **Three (3) sets of standard shop drawings or manufacturer's catalogs with the model number or type of the item circled or otherwise designated. The City shall have the right to reject any product not listed within the "City of Boca Raton Approved Product List". The submittals shall bear the signed approval of the Underground Utility Contractor and the Engineer of Record. One (1) set must have an original signature.**
2. **Three (3) complete sets of detailed sanitary sewer shop drawings for all sanitary manholes shall be *submitted bearing the stamped approval and initials/signature of the Underground Utility Contractor and the Engineer of Record on every sheet.*** One (1) set must have an original - original stamp and initials/signatures.
3. **Three (3) complete of detailed wet well shop drawings and a complete set of the lift station pump sizes and electrical shop drawings are also required as applicable and shall be *submitted bearing the stamped approval and initials/signature of the Underground Utility Contractor and the Engineer of Record on every sheet.*** One (1) set must have an original - original stamp and initials/signatures.

Each of the above listed items shall be submitted separately for approval and must be accompanied by a letter of transmittal indicating the contents of the package, project name, project location, contact person and contact information (email, phone, address, company, etc.). The separate packages can be included on one transmittal.



CITY OF Boca Raton

UTILITY SERVICES DEPARTMENT

1401 GLADES ROAD • BOCA RATON, FL 33431 • PHONE (561) 338-7300 • FAX (561) 338-7345 • www.myboca.us

6.1.2 Project Information

Project Name: _____

Concurrence of Underground

Utility Contractor:

Signature Date

Print Name

Company

Concurrence of the Engineer:

Signature Date

Print Name

Firm

By signature above, the Underground Utility Contractor for referenced project agrees to adhere to the following product specifications. It is understood that the Engineering Division of the Municipal Services Department will reject construction not in accordance with this document.

Basis: The following products and specifications have been found to be acceptable and/or desirable in their respective groups. Shop drawings need not be submitted for approval if the contractor uses products on this list. Any substitutions or changes for these products must be submitted to the City of Boca Raton Utility Services Department for approval prior to their use. For all items not listed on the "City of Boca Raton Approved Products List", the Contractor shall submit **Three (3)** sets of standard shop drawings or manufacturer's catalogs with the model number or type of the item circled or otherwise designated. The City shall have the right to reject any product not listed within the "City of Boca Raton Approved Product List". ***One (1) set of the submittals shall bear the original signed approval of the Underground Utility Contractor and the Engineer of Record, the remaining four (2) sets can be a copy.***

6.1.3 Approved Products List for Water Distribution/Sanitary Sewer Utility Construction

ALL ITEMS TO BE MANUFACTURED IN THE UNITED STATES

A. WATER DISTRIBUTION

1. WATER DISTRIBUTION DUCTILE PIPE

Brand Name:

- American Cast Iron Co.
- U.S. Pipe
- McWane/Clow
- Griffin Pipe

Model Type: Push-on Pipe

Specifications and Requirements:

Conforms to ANSI/AWWA C150/A21.50 and C151/A21.51 with Interior Cement lining and seal coating
ANSI/AWWA C104/A21.4 and Exterior Asphaltic Coating

Pressure class 350 for 12" and smaller

Pressure class 250 for pipes larger than 12"

Pipe shall be color coded per FAC 62-555.320

2. WATER DISTRIBUTION LOCATION WIRE AND TAPE

Brand Name	Model Type	Specifications and Requirements
Any manufacturer	Blue coated wire.	Wire shall be 14 gauge multiple stranded.
Any manufacturer	Location wire	2-inch wide for water main installation

3. WATER DISTRIBUTION PIPE FITTINGS

Brand Name:

- American Cast Iron Pipe
- Tyler/Union/McWane
- Star Pipe Products
- U.S. Pipe

Model Type: Compact Body

Specifications and Requirements:

Mechanical joint, compact body per ANSI/AWWA C153/A21.53 cement-lined and seal coated per ANSI/AWWA C104/A21.4

4. WATER DISTRIBUTION PIPE RESTRAINTS – Fittings and Valves

Brand Name	Model Type
EBAA Iron	DIP – Megalug – 1100 Series
Sigma	DIP – One-Lok D-SLDE (Domestic)
Star Pipe Products	DIP – Stargrip series 3000 (Domestic)
Tyler Union	DIP – TufGrip – 1000 Series (Domestic)

Specifications and Requirements:

For DIP at MJ connections – Fittings and Valves.

5. WATER DISTRIBUTION PIPE RESTRAINTS – Bell & 2nd MJ Restraint

Brand Name	Model Type
EBAA Iron	Series 1100
	Series 1500TD
	Series 2000PV
Star Pipe Products	1100 Series (Domestic)
Ford/Uniflange	Series 1390-CU

Specifications and Requirements:

For bell and second MJ Restraint.

6. WATER DISTRIBUTION PIPE RESTRAINTS – Restraining Gaskets

Brand Name	Model Type
US Pipe/McWane	Field LOC gasket
American Cast Iron Pipe	Fast grip gasket
Griffin Pipe Products	Talon RJ gasket

Specifications and Requirements:

To be used for ductile pipe through a casing only.

7. WATER DISTRIBUTION TAPPING SLEEVES – Mechanical Joint

Brand Name	Model Type
American Flow Control	2800 Series
Mueller	H615
Tyler/Union/McWane	MJ Cast Iron 5-149-CI

Specifications and Requirements:

Mechanical joint tapping sleeve for the tapping of Cast Iron, Ductile and C-900 PVC pipe.

8. WATER DISTRIBUTION TAPPING SLEEVES – Stainless Steel

Brand Name	Model Type
Mueller	H-304 SS
JCM Industries	JCM 432
Smith-Blair	664-665
Ford Meter Box Co.	FTSS Series

Specifications and Requirements:

Full Stainless Steel with wrap around gasket for the tapping of Asbestos Cement and Class 160-200 SDR 26-21 PVC (SCH 40 OD) pipe only.

9. WATER DISTRIBUTION TAPPING SLEEVES – Epoxy Coated

Brand Name	Model Type
JCM Industries	JCM 412
Smith-Blair	622

Specifications and Requirements:

Epoxy coated with stainless steel bolts to be pre-approved by Utility Services Department for use.

10. WATER DISTRIBUTION TAPPING VALVES

Brand Name	Model Type
American Flow Control	2500 Series
Clow/McWane	F-6114
Mueller	T2360

Specifications and Requirements:

Conforms to ANSI/AWWA C509 or C515.

Flange by mechanical joint with centering ring and stainless-steel flange accessories – resilient wedge.

11. WATER DISTRIBUTION BUTTERFLY VALVES

Brand Name	Model Type
Mueller	Linseal III
Pratt	Groundhog
Dezurik	BAW
Clow/M&H Valve/McWane	4500 Series

Specifications and Requirements:

Conforms to ANSI/ASTM C504.

12. WATER DISTRIBUTION GATE VALVES

Brand Name	Model Type
American Flow Products	2500 Series
Mueller	A-2360
M&H/McWane	Style 4067
Kennedy Valve/McWane	Ken-seal-FW
Clow/McWane	F-6100 resilient wedge

Specifications and Requirements:

Mechanical joint; conforms to ANSI/AWWA C509 or C515.

Resilient seat or resilient wedge non-rising stem.

13. WATER DISTRIBUTION AIR RELEASE VALVES/COMBINATION AIR RELEASE VALVES

Brand Name	Model Type
Val-matic	45
Crispin	PL-20A
DeZurik/Apco	200-A
Empire/Golden Anderson	920
DeZurik/Apco	145C

Specifications and Requirements:

2" Unless otherwise approved by the Department

Stainless steel trim AWWA C-512.

Meeting application and type of main.

14. WATER INFLOW PREVENTER ARV

Brand Name	Model Type
Val-Matic	1301

Specifications and Requirements:

Conforms to AWWA C514.

1" unless otherwise approved by the Department

15. WATER DISTRIBUTION VALVE BOX AND COVER

Brand Name	Model Type
Tyler/Union/McWane	6850 Series, 461-S Type
Bingham Taylor	4905 Series

Specifications and Requirements:

Boxes shall be set in concrete and have a brass valve identification tag cast in the concrete

Screw Type with Cast iron cover marked "WATER" or "REUSE"

16. WATER DISTRIBUTION CAST IRON BLOW OFF BOX

Brand Name	Model Type	Specifications and Requirements
US Foundry	USF #7630	Raised "W" on lid

17. FIRE HYDRANTS

Brand Name	Model Type
Mueller	Centurion #A-423
American Flow Control	American Darling 5 1/4 B-84-B 5

Specifications and Requirements:

Breakaway traffic type with 5-1/4" minimum main valve opening.

NSF/ANSI 61 and NSF/ANSI 372

Factory Silver.

Bury to suit.

No drain vents or plugs.

No extensions will be allowed.

18. WATER DISTRIBUTION BRASS ID TAGS

Brand Name	Model Type	Specifications and Requirements
Wager Company	Bronze ID Disk	Permanent tags required at the valve box and fittings.

19. WATER DISTRIBUTION CASING SPACERS AND END SEALS

Brand Name	Model Type
Cascade	Style CCS Style CCES
PSI	Spacer S12G-2 End Seal Model "S"

Specifications and Requirements:

Casing spacers to be stainless steel for pipe to be positioned in center of casing.

End seals to be neoprene with stainless steel bands.

20. SERVICE SADDLE

Brand Name	Model Type	Specifications and Requirements
Ford Meter Box Co.	202B	Bronze saddle with brass bales.
Mueller	BR2B Series	Bronze saddle with brass bales.
AY McDonald	#3826	Bronze saddle with brass bales
Romac	202NS	Ductile Iron Body – ASTM-A 536
Smith Blair	317	Ductile Iron Body – ASTM-A 536
Total Pipe Solution, Inc.	Triple Tap Model T3	Ductile Iron Body – ASTM-A 536

21. CORPORATION STOPS

Brand Name	Model Type
Ford Meter Box Co.	FB1100—X-NL
Mueller	B25028-I.P.
AY McDonald	4704B-22-I.P.

Specifications and Requirements:

X refers to the line size.

Brass ball valve type - conforms to ANSI/AWWA C800.

Iron pipe threads by Packed Joint/110 Compression.

22. WATER SERVICE LINE POLYETHYLENE TUBING

Brand Name	Model Type
Performance Pipe/Chevron Phillips	Driscoplex 5100 black with blue stripes and blue writing.
Endot	Endopure – blue with white or black writing
Vanguard	Bruiser HDPE – blue with white or black writing
Charter Plastics	Blue Ice – blue with white or black writing

Specifications and Requirements:

P.E. 3408/4710-DR-9 AWWA C-901 ASTM D2737.

Size is based on O.D.

23. WATER SERVICE CASING PIPE

Brand Name:

- Charlotte
- National Pipe and Plastics
- North American Pipe
- JM Pipe

Model Type: Schedule 40 PVC Pipe

Specifications and Requirements:

ASTM D1785/D2665.

24. CURB STOPS

Brand Name	Model Type
Ford Meter Box Co.	B41-777W-G-NL.
Mueller	300 Series
AY McDonald	4602B-22 IP

Specifications and Requirements:

Must have Optional Padlock Wing.

Brass - conforms to ANSI/AWWA C800.

NSF-61 thread sealer/locker required for threaded connections.

25. SERVICE FITTINGS, COUPLINGS, CLAMPS & HARDWARE

Brand Name	Model Type
Ford Meter Box Co.	C14; C84; C44; Y44-247-G-NL; C38-XX-XX-NL
Mueller	110 Conductive
AY McDonald	4753-22; 4754-22; 4758-22

Specifications and Requirements:

Compression couplings for Polyethylene tubing.

Not allowed to be used to extend tubing lengths.

26. WATER METER BOX

Brand Name	Model Type	Specifications and Requirements
Hubbell Power Systems Inc/CDR	B10111818M - 1" – Departmental Approval Required B10132418M – 1", 1.5" and 2" meter	Box, Depth 18", Tier 8 Box, Depth 18", Tier 15 or 22 where required.
Hubbell Power Systems Inc/CDR	C08111802D009 C08132402D009	Lid, W/CI Reader (6x9) (or w/AMR-AMI lid option where required)
Oldcastle/Carson	1419 – 1" and 1.5" meter 1220 – 1.5" meter 1730 – 2" meter	Box, Depth 18", Tier 8 Box, Depth 18", Tier 15 or Tier 22 where required. Lid, Flush w/CI Reader (or Flush w/AMR-AMI recess lid option where required)

Specifications and Requirements:

Lid must meet traffic rating of installed meter box.

B. SANITARY SEWER

1. GRAVITY SANITARY SEWER PVC PIPE

(Circle appropriate brand & specifications)

Brand Name:

- JM Pipe.
- North American (NAPCO)
- National Pipe & Plastics
- Diamond

Model Type: Push-on Pipe

Specifications and Requirements: *(select i. or ii.)*

i. PVC pipe shall conform to:

- ASTM D3034 SDR 26 for 4" through 15"
- ASTM F679 PS115 for 18" through 48" Heavy Wall Pipe

Pipe shall be green in color.

OR

ii. PVC pipe shall conform to:

- ANSI/AWWA C900-07: Class 235 DR18 for 4" through 12"
- PVC 14" and up shall conform to ANSI/AWWA C905 DR25

Pipe shall be green in color.

2. SANITARY SEWER FORCE MAIN PVC PIPE

Brand Name:

- JM Pipe.
- North American (NAPCO)
- National Pipe & Plastics
- Diamond

Model Type: Push-on Pipe

Specifications and Requirements:

PVC pipe shall conform to ANSI/AWWA C900-07:

- Class 305 DR14 for 4" through 12"

Pipe shall be green in color.

3. GRAVITY SANITARY SEWER AND FORCE MAIN DUCTILE PIPE

Brand Name:

- American Cast Iron Pipe
- McWane/Clow
- US Pipe
- Griffin Pipe

Model Type: Push-on Pipe

Specifications and Requirements:

Conforms to ASTM A716/A746 Ceramic Epoxy Lined – Protecto 401 (40 mils); asphalt coated on the outside.

- Pressure Class 350 for 4" through 24"

OR

- Class 50 or higher for 4" through 24"

Pipe shall be green stripped.

4. GRAVITY SANITARY SEWER PVC PIPE FITTINGS

(Circle appropriate brand & specifications)

Brand Name:

- Multi Fittings.
- Plastic Trends
- Harco

Model Type: Push-on

Specifications and Requirements: *(select i. or ii.)*

i. PVC pipe shall conform to:

- ASTM D3034 SDR 26 for 4" through 15"
- ASTM F679 PS115 for 18" through 48" Heavy Wall Pipe

OR

ii. PVC pipe shall conform to:

- C900-DR18 for 4" through 12"
- C905 DR25 for 14" and up

Non-pressure (gravity sewer only).

5. SANITARY SEWER DUCTILE PIPE FITTINGS

Brand Name:

- US Pipe
- American Cast Iron Pipe
- Star Pipe Products
- Tyler/Union/ Foundry/ McWane

Model Type: Compact Fitting

Specifications and Requirements:

Mechanical joint, compact body per ANSI/AWWA C153/A21.53

Conforms to ASTM A716/A746 Ceramic Epoxy Lined – Protecto 401 (40 mils);

Asphalt coated on the outside.

6. SANITARY SEWER FORCE MAIN PIPE RESTRAINTS – Fittings and Valves

Brand Name	Model Type DIP	Model Type PVC
EBAA Iron	Megalug – 1100 Serie	Megalug 2000 PV Series
Sigma	One-Lok D-SLDE (Domestic)	One-Lok D-SLCE (Domestic)
Star Pipe Products	Stargrip series 3000 (Domestic)	Stargrip series 4000 (Domestic)
Tyler Union	TufGrip – 1000 Series (Domestic)	TufGrip – 2000 Series (Domestic)

Specifications and Requirements:

For DIP at MJ connections – Fittings and Valves.

7. SANITARY SEWER FORCE MAIN PIPE RESTRAINTS – Bell & 2nd MJ Restraint

Brand Name	Model Type
EBAA Iron	Series 1500TD
Star Pipe Products	1100 Series (Domestic)
Ford/Uniflange	Series 1390-CU

Specifications and Requirements:

For bell and second MJ Restraint.

8. SANITARY SEWER FORCE MAIN PIPE RESTRAINTS – Restraining Gaskets

Brand Name	Model Type
US Pipe/McWane	Field LOC gasket
American Cast Iron Pipe	Fast grip gasket
Griffin Pipe Products	Talon RJ gasket

Specifications and Requirements:

To be used for ductile pipe through a casing only.

9. SANITARY SEWER FORCE MAIN TAPPING SLEEVES – Mechanical Joint

Brand Name	Model Type
American Flow Control	2800 Series
Mueller	H615
Tyler/Union/McWane	MJ Cast Iron 5-149-CI

Specifications and Requirements:

Mechanical joint tapping sleeve for the tapping of Cast Iron, Ductile and C-900 PVC pipe.

10. SANITARY SEWER FORCE MAIN TAPPING SLEEVES – Stainless Steel

Brand Name	Model Type
Mueller	H-304 SS
JCM Industries	JCM 432
Smith-Blair	664-665

Specifications and Requirements:

Full Stainless Steel with wrap around gasket for the tapping of Asbestos Cement and Class 160-200 SDR 26-21 PVC (SCH 40 OD) pipe only.

11. SANITARY SEWER FORCE MAIN TAPPING SLEEVES – Epoxy Coated

Brand Name	Model Type
JCM Industries	JCM 412
Smith-Blair	622

Specifications and Requirements:

Epoxy coated with stainless steel bolts to be pre-approved by Utility Services Department for use.

12. SANITARY SEWER FORCE MAIN TAPPING VALVES

Brand Name	Model Type
American Flow Control	2500 Series
Clow/McWane	F-6114
Mueller	T2360

Specifications and Requirements:

Conforms to ANSI/AWWA C509 or C515.

Flange by mechanical joint with centering ring and stainless-steel flange accessories – resilient wedge.

13. SANITARY SEWER PLUG VALVES

Brand Name	Model Type
DeZurik	CI FLG N/LUBE w/OP NUT

Specifications and Requirements:

MJ and Flange to Flange

14. SANITARY SEWER CHECK VALVES

Brand Name	Model Type
Kennedy	1126A

Specifications and Requirements:

MJ and Flange to Flange

15. SANITARY SEWER FORCE MAIN GATE VALVES

Brand Name	Model Type
American Flow Products	2500 Series
Mueller	A-2360
M&H/McWane	Style 4067
Kennedy Valve/McWane	Ken-seal-FW
Clow/McWane	F-6100 resilient wedge

Specifications and Requirements:

Mechanical joint; conforms to ANSI/AWWA C509 or C515.

Resilient seat or resilient wedge non-rising stem.

16. SANITARY SEWER FORCE MAIN AIR RELEASE VALVES

Brand Name	Model Type
Val-matic	48
Crispin	SL-20 (sewer)
DeZurik/Apco	400
Empire/Golden Anderson	925

Specifications and Requirements:

Stainless steel trim AWWA C-512.

2" unless otherwise approved by the Department.

Meeting application and type of main.

17. SANITARY SEWER FORCE MAIN VALVE BOX AND COVER

Brand Name	Model Type
Tyler/Union/McWane	6850 Series, 461-S Type
Bingham Taylor	4905 Series

Specifications and Requirements:

Boxes shall be set in concrete and have a brass valve identification tag cast in the concrete

Screw Type with Cast iron cover marked "SEWER".

18. SANITARY SEWER FORCE MAIN BRASS ID TAGS

Brand Name	Model Type	Specifications and Requirements
Wager Company	Bronze ID Disk	Permanent tags required at the valve box and fittings.

19. SANITARY SEWER PVC MANHOLE ADAPTORS

Brand Name	Model Type	Specifications and Requirements
Harco	PVC Sewer Adaptor	Grouted repair coupling for connecting to existing manholes only

20. SANITARY SEWER CAST IN PLACE FLEXIBLE MANHOLE BOOTS

Brand Name	Model Type
Chardon Rubber Co./Wabtec Rubber Products	LockJoint flexible Manhole Sleeve CP-Series

Brand Name	Model Type
A-LOK Products	Z-LOK F208-8

Specifications and Requirements:

Manhole boot supplied by precast company with stainless steel bands.

21. SANITARY SEWER MANHOLE RING AND COVER

Brand Name	Model Type	Specifications and Requirements
US Foundry	420-C	Raised letters "SANITARY SEWER" & "BOCA RATON"
US Foundry	420-C	Raised letters "SANITARY SEWER" Only for manholes not maintained by the City of Boca Raton (Private)

22. SANITARY SEWER MANHOLE INSERT

Brand Name	Model Type
Rainstopper	HDPE

Specification and Requirements:

Required in all new and/or rehabilitated manholes.

23. SANITARY SEWER CLEANOUT BOX IN ASPHALT

Brand Name	Model Type	Specifications and Requirements
US Foundry	7635	Raised "S" on lid.

24. SANITARY SEWER FORCE MAIN CASING SPACERS AND END SEALS

Brand Name	Model Type
Cascade	Style CCS; Style CCES
PSI	Spacer S12G-2 End Seal Model "S"

Specifications and Requirements:

Casing spacers to be stainless steel for pipe to be positioned in center of casing.

End seals to be neoprene with stainless steel bands.

25. SANITARY SEWER PRECAST INTERIOR MANHOLE & WETWELL COATING

Brand Name	Model Type	Specifications and Requirements
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Madewell Products Corp.	Mainstay Composite Liner	ML-72 (Half-inch application) DS-5 (100-mil application) (highly corrosive environments)
SewperCoat®	SewerperCoat® PG	Half-inch application

26. SANITARY SEWER PRECAST EXTERIOR MANHOLE & WETWELL COATING

Brand Name	Model Type	Specifications and Requirements
Carboline	Bitumastic 300M Coal Tar Epoxy	AWWA C-210; primary (6-8 ft.) and second application (8-10 ft.) – 1 coat each

27. SANITARY SEWER FORCE MAIN LOCATION WIRE AND TAPE

Brand Name	Model Type	Specifications and Requirements
Any manufacturer	green coated wire.	Wire shall be 14 gauge multiple stranded.
Any manufacturer	Location wire	2-inch wide for force main installation

APPENDIX B – ADDENDUM 1 - GEOTECHNICAL REPORT

REPORT OF SUBSURFACE
EXPLORATION AND GEOTECHNICAL
ENGINEERING EVALUATION

FOR:

MR. KEVIN MENTING
CRAVEN THOMPSON & ASSOCIATES, INC.
3563 NW 53rd STREET
FORT LAUDERDALE, FLORIDA 33309

PROJECT:

GOLDEN HARBOUR INFRASTRUCTURE UPGRADES

LOCATION:

BOCA RATON, PALM BEACH COUNTY
BOUNDED BY:
LAKE WYMAN, NE 4TH LANE, & NE 5TH AVENUE
CITY OF BOCA RATON, PALM BEACH COUNTY, FLORIDA

ACES PROJECT NUMBER: 2025-136

PREPARED BY:



4121 SW 47TH AVENUE, SUITE 1319
DAVIE, FLORIDA 33314

DECEMBER 19, 2025

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ATTACHMENT:

Attachment 1.0: Soil Boring Logs

Attachment 2.0: Asphalt Core Results

Attachment 3.0: Site and Test Location Sketches

1 INTRODUCTION:

In response to the authorization from Mr. Kevin Menting of Craven Thompson & Associates, Inc. (CTA), **Absolute Civil Engineering Solutions, LLC (ACES)** is pleased to submit this Geotechnical Engineering Report for the Golden Harbour Infrastructure Upgrades Project, which is bordered by Lake Wyman to the north & east, NE 4th Lane to the south, & NE 5th Avenue to the west, located in the City of Boca Raton, Palm Beach County, Florida (See site location sketch - Attachment 3.0).

2 PROJECT INFORMATION:

The project consisted of performing a subsurface investigation for the proposed Golden Harbour Infrastructure Upgrades Project, which is bordered by Lake Wyman to the north & east, NE 4th Lane to the south, & NE 5th Avenue to the west, located in the City of Boca Raton, Palm Beach County, Florida. The purpose of the investigation was primarily to collect and analyze information regarding the asphalt thickness and subsurface conditions existing in the vicinity of the proposed improvements in order to evaluate site preparation and foundation construction alternatives. The investigation consisted of performing Standard Penetration Test (SPT) borings at four (4) locations and Asphalt Pavement Core (APC) samples at four (4) locations in the vicinity of the proposed improvement.

3 PROPOSED STRUCTURES:

It is our understanding that the proposed structures shall be typical of:

- Domestic water main improvements;
- Roadway, sidewalks, driveways, landscaping and drainage improvements.

4 SCOPE OF WORK:

ACES proposed to test the site's soils for foundation support and to assess the site's subsurface conditions as they pertain to the presence of organic materials, loose or otherwise unsuitable soils, and groundwater.

We have determined that the standard penetration test (SPT) data collected is sufficient to evaluate soil strength and load carrying capability. All drilling, sampling and testing on this project were conducted in general accordance with ASTM procedures or other applicable standards and practices.

ACES conducted a total of four (4) standard penetration test (SPT) borings within subject project boundaries. The test locations were measured in the field by taping and pacing from site features and landmarks. The SPT borings were drilled using a truck-mounted drill and rotary wash drilling procedures. Borings were advanced to a depth of approximately eight (8) feet below the ground surface. Samples from the SPT borings were collected at selected depth intervals via the Standard Penetration Test method (ASTM D-1586). The "N-value" was recorded at each sample location for subsequent use in the engineering evaluation. The N-value provides an empirical indication of soil strength and is determined by the cumulative number of blows required by a 140-lb. hammer, operating freely over a 30-inch drop, to advance a 2-inch O.D. split-barrel sampler one foot into the soils, after initial penetration of 6-inches. Upon completion of each boring, the depth to groundwater was measured.

In addition, four (4) Asphalt Pavement Core samples were taken throughout the proposed improvement area. The Asphalt Pavement Core results are provided in Attachment 2.0.

ACES evaluated the data obtained from the subsurface exploration and prepared this written report for the site summarizing the findings, along with our conclusions and recommendations. Our written report includes the following:

- A description of the site, fieldwork, laboratory testing and general soil conditions encountered, as well as a Test Location Plan, and individual Boring Records;
- Asphalt Core test results;
- Site preparation considerations that include geotechnical discussions regarding site stripping and sub-grade preparation, and engineered fill/backfill placement;
- The field measured groundwater level;
- Foundation system recommendations for the proposed structure, including allowable foundation capacity;
- Recommended quality control measures and
- Suitability of on-site soils for re-use as structural fill and backfill.

ACES did not observe any obvious odors or stains during the performance of our subsurface investigation. However, the assessment of site environmental conditions, the detection of pollutants in the soil, rock or groundwater, or laboratory-testing of samples, wetlands evaluation, or a site-specific environmental study are beyond the scope of this exploration.

5 LABORATORY TESTING:

Our laboratory-testing program includes visual classification of the soil samples collected during the drilling process in accordance with the Unified Soil Classification system (USCS) and ASTM standards. Laboratory testing also includes limited classification tests (grain-size analyses, Atterberg limits and natural moisture content determination) of representative soils where deemed necessary.

In accordance with the General Terms and Conditions outlined in our proposal, soil samples will be disposed of 30-days after submittal of the final report, unless requested otherwise by the client.

6 GENERAL SUB-SURFACE CONDITIONS:

6.1 General sub-surface conditions

The general subsurface conditions encountered for borings advanced to a depth of about eight (8) feet or less below the ground surface can be represented by boring B-3 as follows:

DEPTH	MATERIAL DESCRIPTION
0'-0" to 0'-3"	Asphalt
0'-3" to 1'-2"	Backfill: Tan Lime Sand with Lime Rocks
1'-2" to 5'-0"	Brown Sand with Some Rock Fragments
5'-0" to 8'-0"	Brown Medium Sand

Test boring records should be consulted for a detailed description of the soil and rock conditions encountered at each boring location. When reviewing the boring records and the subsurface profiles, it should be understood that the soil conditions may vary between boring locations, therefore, special consideration should be given to the boring with the worst conditions encountered. The boring logs are provided in Attachment 1.0.

6.2 Groundwater

The ground water level was encountered at each boring location at the time of drilling. The ground water level was encountered at an average depth of four (4) feet and nine (9) inches below the existing surface. Fluctuations in the observed ground water level should be expected due to tidal fluctuations, seasonal climatic changes, rainfall variation, surface water run-off and other specific factors related to the site in question.

7 FOUNDATION RECOMMENDATIONS:

7.1 General foundation notes

Based on the sub-surface conditions encountered, ACES evaluated a number of foundation systems for providing support for structures typically associated with paving & water mains improvements. Special consideration in the analysis was given to the following:

- The presence of relatively loose layers of soil material of varied thickness, which makes the site less appropriate for supporting heavily loaded structural components using regular spread footings and single-column pads at the existing grade without implementing some site preparation and soil improvement techniques;
- The proposed depth of the water mains;
- The location of the proposed constructions and the backfill material used to raise the site to grade;
- Height to width ratio of the proposed structure with special emphasis on overturning moments and lateral support; and
- The depth of the groundwater below the existing grade.

Given the above, the following site preparation and foundation system was selected:

7.2 Standard Foundation System

7.2.1 Site preparation for standard foundation system

Our site preparation recommendations are based on information provided by the client as to the type of structure planned as well as on our subsurface investigation performed at the subject property. Therefore, our site preparation recommendations are as follows:

- Clear/excavate the entire construction area of the proposed improvement/structure plus five (5) feet outside the perimeter of construction and remove all unsuitable subsurface material to the necessary depth. We anticipate a clearance/excavation depth varying from approximately eight (8) inches to one (1) foot below the existing grade.

- Compact the cleared/excavated area to a minimum compaction of 98% of the optimum dry density as per AASHTO T-180 (ASTM D-1557). Verify densification procedures by taking an adequate number of field compaction tests. The cleared/excavated area should be inspected prior to the commencement of any backfilling or other construction activity to ensure that all unsuitable material has been removed from the area and that the existing material at the bottom of the cleared/excavated area is suitable.
- Backfill the cleared/excavated area, plus 5'-0" outside the perimeter of the structure to the desired bottom of the subgrade or footing elevation with a clean mixture of sand and lime rock fill (or approved fill material) in compacted layers not to exceed twelve (12) inches in thickness. Compact each layer to a minimum of 98% of the optimum dry density as per AASHTO T180 (ASTM D-1557). Verify densification procedures by taking an adequate number of field density tests.
- Excavate footing trenches to the required bottom of footing elevation. Compact the bottom of the footing trenches to achieve a minimum compaction of 98% of the optimum dry density as per AASHTO T180 (ASTM D-1557). Verify densification procedures by taking an adequate number of field density tests.
- An adequate dewatering system may have to be installed to achieve the desired goal where applicable.

7.2.2 Design recommendations for standard foundation system

A standard foundation system such as a mat foundation, spread footings or column pads are feasible solution for standard anticipated structure. We anticipate that the foundation and footings may be appropriately proportioned for a safe soil bearing capacity not to exceed 2,500 Pounds per Square Foot (PSF). The area of construction plus five (5) feet outside the perimeter of construction should be compacted to achieve a minimum dry density of 98% of the optimum dry density as per AASHTO T-180 (ASTM D-1557). Backfill material required to raise the building pad to grade should be performed using a clean mixture of sand, lime sand and lime rock fill in compacted lifts not to exceed 12 inches thickness each lift and compacted to achieve a minimum compaction of 98% of the optimum dry density as per AASHTO T-180 (ASTM D-1557).

Fill/Backfill Placement

Fill used to raise the site should consist of at a minimum, clean sand and/or sand and gravel (ASTM D 2487), with a maximum of 5 percent passing the U.S. Standard No. 200 sieve. The structural fill should be placed in thin lifts (12-inch thick loose measure), near the optimum moisture content for compaction, and be compacted to at least 98 percent of maximum dry density (AASHTO T-180/ASTM D1557). If necessary, storm sewer lines should be installed over at least 4 inch of granular bedding material (preferably lime-rock).

Excavations

Subsoils found at the proposed sites consist of layers of relatively loose to medium sand or sand with rocks and medium to hard sand with rocks as noted in the boring logs. The loose to medium soils can be excavated with a hydraulically controlled backhoe in good working order to the hard layers. Excavations in the hard layers should be made with an excavator or backhoe with welded plate teeth. The welded plate teeth will enable a smooth excavation and minimize over-excavation of the hard material. Unsuitable material or organic soils (if any) at foundation bottoms should be removed and replaced with structural fill.

ACES expects that unbraced cut slopes made in the granular soils at an inclination of 1.5 horizontal to 1 vertical will remain stable for short periods of time provided they are not subjected to seepage, surcharge loads (e.g., from stockpiled soil or equipment) and excessive vibration. Furthermore, open-cut excavations exceeding 10 feet in depth should be properly dewatered and sloped 2H:1V or flatter or be benched using a bracing plan approved by a professional engineer licensed in the State of Florida. Excavated materials should not be stockpiled at the top of the slope within a horizontal distance equal to the excavation depth.

Dewatering will be required for in-the-dry construction over those sections of the site where the invert elevations of the pipelines/catch basin fall below the water table. In such areas we anticipate that groundwater control can be accomplished through open pumping in those areas where draw down

requirements are 1 foot or less. Open pumping dewatering can most positively be accomplished by over-excavating by 6 to 12 inches and backfilling the over cut section with coarse gravel. Water which flows through the gravel should be directed to a sump where it can be collected and pumped to a suitable discharge point. Precautions should be taken during open pumping to assure that fines are not withdrawn from the surrounding soils since this could result in undesirable settlement occurring. In the event where the draw down requirements is greater than 1 foot, well point dewatering shall be required.

The contractor is solely responsible for designing and constructing stable, temporary excavations and should shore, slope, or bench the sides of the excavations as required to maintain stability of both the excavation sides and bottom. The contractor's responsible person shall evaluate the soil exposed in the excavations as part of the contractor's safety procedures. In no case should slope height, slope inclination, or excavation depth, including utility trench excavation depth, exceed those specified in local, state, and federal safety regulations.

7.3 Recommendations for the water main and paved areas

7.3.1 Preparation for paved areas

- **CLEARING AND GRUBBING:** All trees, top soil, organic material, bush, stumps, roots, grass, weeds and all other obstructions shall be removed from within the limits of the areas to be paved to the necessary depth. Backfill the cleared/excavated area, plus 5'-0" outside the perimeter of the structure to the desired bottom of the subgrade elevation with a clean mixture of sand and lime rock fill (or approved fill material) in compacted layers not to exceed twelve (12) inches in thickness. Compact each layer to a minimum of 98% of the optimum dry density as per AASHTO T180. Verify densification procedures by taking an adequate number of field density tests.
- **SUBGRADE:** The soil material in all traffic areas shall consist of 12" compacted thickness of clean mixture of sand, lime sand and lime rock. The material used shall have a lime rock bearing ratio (LBR) greater than or equal to 40. The entire area where rock base is to be constructed shall be thoroughly compacted to a minimum density of 98% of the optimum dry density as per AASHTO T-180 (modified proctor). Typically, the material shall exhibit moisture contents

within +/- 2% of the modified proctor optimum moisture contents during the compaction operation.

- **PREPARATION OF BASE:**

Material: In normal traffic areas, the base shall consist of six (6) inches of compacted lime rock base course conforming to the following specifications:

The minimum percentage of carbonates shall be 70%. The liquid limit shall not exceed 35 and the material shall be non-plastic. At least 97% (by weight) of the material shall pass a 3¾ inches sieve and the material shall be uniformly graded down to dust. Lime rock material used in construction of lime rock base shall have an average LBR value of not less than 100.

In areas receiving repeated heavy traffic (trucks, etc.) the thickness requirements shall be a minimum of eight (8) inches of compacted lime rock conforming to the foregoing criteria for lime rock base.

Compacting Base: After spreading is completed, the entire surface shall be scarified and shaped so as to produce the exact grade and cross section after compaction. The full depth of base shall be compacted to a minimum density of ninety-eight percent (98%) of the optimum dry density, as determined by AASHTO T-180 (modified proctor). Where the base is constructed in two (2) courses, the bottom course need only be bladed to secure a uniform thickness.

Wearing Course: The wearing course in normal traffic areas shall consist of a one and one-half inch (1.5") minimum layer of asphaltic concrete as specified by the Florida Department of Transportation Standard Specifications, except where a "Job Formula" is required. In heavy traffic areas, the wearing course shall consist of a 2 inch (minimum) layer of asphaltic concrete as specified by the Florida Department of Transportation Standard Specifications.

8 CLOSING REMARKS:

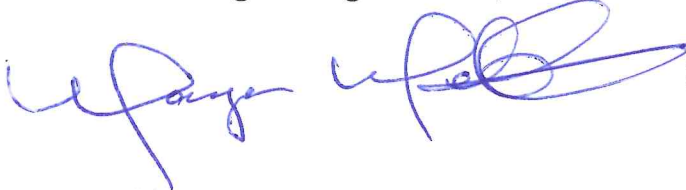
Regardless of the thoroughness of our geotechnical exploration there is always a possibility that the general conditions on the subject property (site) may be different from those at the test locations. Therefore, ACES is not responsible for any sub-soil conditions different from those reported in our boring logs.

This report was prepared exclusively for the use of Craven Thompson & Associates Inc. The conclusions provided by ACES are based solely on the information presented in this report. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

We appreciate the opportunity to have been of service to your company. Please feel free to contact us if there are any questions or comments pertaining to this report.

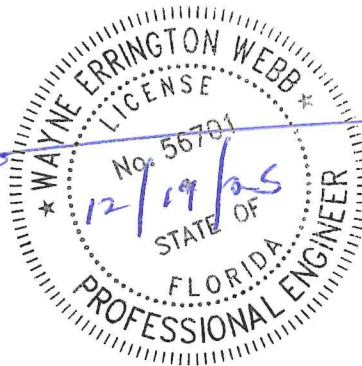
Respectfully submitted,

Absolute Civil Engineering Solutions, LLC



Wayne Webb, P.E.

Project Engineer



Attachment 1.0: Boring Logs



Absolute Civil Engineering Solutions, LLC

ENGINEERING TESTING-ENGINEERING INSPECTION SERVICES-GEOTECHNICAL-ENVIRONMENTAL
4121 SW 47th Ave, Suite 1319, Davie, FL, 33314 / Phone: 954-349-8797 / Fax: 866-283-9007

SPT SOIL BORING REPORT

CLIENT:		Craven Thompson and Associates INC.	Page:		1 of 1	
CLIENT ADDRESS:		3536 NW 53rd Street, Fort Lauderdale, FL 33309	Report #:		1	
PROJECT:		Golden Harbour Infrastructure upgrades	Boring #:		B-1	
PROJECT ADDRESS:		Boca Raton, FL	Drilled on:		12/18/25	
BORING LOCATION:		As Shown on Site Location Map	Driller:		MP	
DEPTH (FEET)	DESCRIPTION OF MATERIALS		Sample No.	Hammer blows on sampler		"N" Value
1	0'0" to 0'4" Asphalt		0'-2'	18	12	23
2	0'4" to 2'0" Backfill Tan Lime Sand and Lime Rocks			11	11	
3	2'0" to 2'8" Light Brown Sand		2'-4'	4	3	6
4	2'8" to 3'2" Dark Brown Sand			3	4	
5	5'0" to 8'0" Tan Medium Sand with Rock fragments		4'-6'	4	3	6
6				3	4	
7			6'-8'	4	4	9
8				5	4	

End of the Boring: 8'0"

Water Table: 4'8"



Respectfully Submitted:

Wayne Webb, P.E. Lic. #56701

Absolute Civil Engineering Solutions, LLC

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Absolute Civil Engineering Solutions, LLC

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4121 SW 47th Ave, Suite 1319, Davie, FL, 33314 / Phone: 954-349-8797 / Fax: 866-283-9007

SPT SOIL BORING REPORT

CLIENT:		Craven Thompson and Associates INC.		Page:	1 of 1		
CLIENT ADDRESS:		3536 NW 53rd Street, Fort Lauderdale, FL 33309		Report #:	1		
PROJECT:		Golden Harbour Infrastructure upgrades		Boring #:	B-2		
PROJECT ADDRESS:		Boca Raton, FL		Drilled on:	12/18/25		
BORING LOCATION:		As Shown on Site Location Map		Driller:	MP		
DEPTH (FEET)	DESCRIPTION OF MATERIALS			Sample No.	Hammer blows on sampler	"N" Value	
1	0'0" to 0'3" Asphalt			0'-2'	21	16	28
2	0'3" to 1'4" Backfill Tan Lime Sand and Lime Rocks 1'4" to 2'0" Brown Medium Sand with Rocks Fragments				12	9	
3	2'0" to 2'8" Black Sand			2'-4'	6	4	8
4	2'8" to 8'0" Brown Medium Sand				4	5	
5				4'-6'	4	4	7
6					3	4	
7				6'-8'	6	5	9
8					4	4	

End of the Boring: 8'0"

Water Table: 4'9"

Respectfully Submitted:

Wayne Webb, P.E. Lic. #56701

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4121 SW 47th Ave, Suite 1319, Davie, FL, 33314 / Phone: 954-349-8797 / Fax: 866-283-9007

SPT SOIL BORING REPORT

CLIENT:		Craven Thompson and Associates INC.	Page:		1 of 1	
CLIENT ADDRESS:		3536 NW 53rd Street, Fort Lauderdale, FL 33309	Report #:		1	
PROJECT:		Golden Harbour Infrastructure upgrades	Boring #:		B-3	
PROJECT ADDRESS:		Boca Raton, FL	Drilled on:		12/18/25	
BORING LOCATION:		As Shown on Site Location Map	Driller:		MP	
DEPTH (FEET)	DESCRIPTION OF MATERIALS		Sample No.	Hammer blows on sampler		"N" Value
1	0'0" to 0'3" Asphalt		0'-2'	22	18	27
2	0'3" to 1'2" Backfill Tan Lime Sand and Lime Rocks			9	6	
3	1'2" to 5'0" Brown Sand with Some Rocks Fragments		2'-4'	5	4	8
4				4	3	
5			5'0" to 8'0" Brown Medium Sand		4'-6'	3
6	3	2				
7	6'-8'				6'-8'	4
8			4	4		

End of the Boring: 8'0"

Water Table: 4'8"

Respectfully Submitted:

Wayne Webb, P.E. Lic. #56701

Absolute Civil Engineering Solutions, LLC



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Absolute Civil Engineering Solutions, LLC

ENGINEERING TESTING-ENGINEERING INSPECTION SERVICES-GEOTECHNICAL-ENVIRONMENTAL
4121 SW 47th Ave, Suite 1319, Davie, FL, 33314 / Phone: 954-349-8797 / Fax: 866-283-9007

SPT SOIL BORING REPORT

CLIENT:		Craven Thompson and Associates INC.		Page:	1 of 1	
CLIENT ADDRESS:		3536 NW 53rd Street, Fort Lauderdale, FL 33309		Report #:	1	
PROJECT:		Golden Harbour Infrastructure upgrades		Boring #:	B-4	
PROJECT ADDRESS:		Boca Raton, FL		Drilled on:	12/18/25	
BORING LOCATION:		As Shown on Site Location Map		Driller:	MP	
DEPTH (FEET)	DESCRIPTION OF MATERIALS		Sample No.	Hammer blows on sampler		"N" Value
1	0'0" to 0'3" Asphalt			23	18	31
	0'3" to 1'0" Backfill Tan Lime Sand and Lime Rocks					
2	1'0" to 3'0" Dark Brown Sand		0'-2'	13	10	15
3						
4	3'0" to 8'0" Brown Medium Sand		2'-4'	7	6	11
5						
6			4'-6'	6	6	11
7						
8			6'-8'	5	5	

End of the Boring: 8'0"

Water Table: 4'9"

Respectfully Submitted:

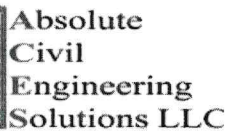
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Attachment 2.0: Asphalt Core Results



ENGINEERING TESTING-ENGINEERING INSPECTION SERVICES-GEOTECHNICAL-ENVIRONMENTAL SERVICES
4121 SW 47TH AVENUE, SUITE 1319, DAVIE, FLORIDA 33314. PHONE 954-232-5680 FAX 866-283-9007

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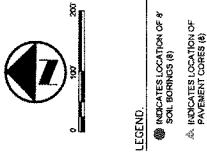
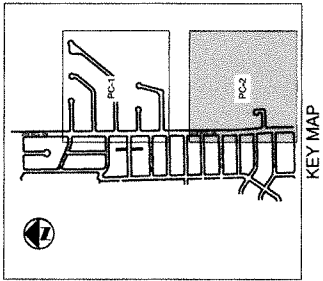
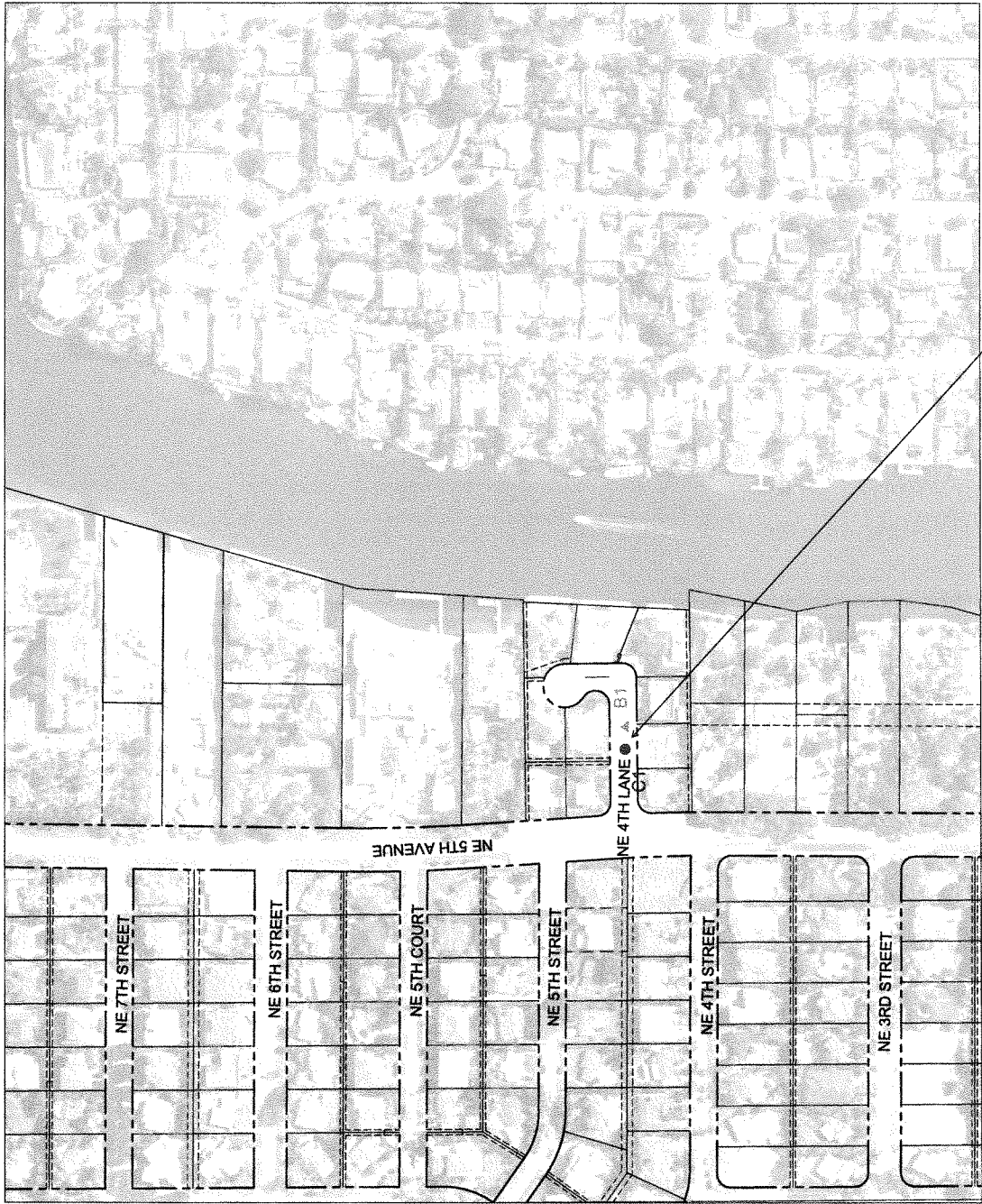
PROJECT MANAGER

Page 1 of 1

Attachment 3.0: Site and Test location Sketches



GOLDEN HARBOUR INFRASTRUCTURE UPGRADES PREPARED FOR CITY OF BOCA RATON PAVEMENT CORES AND SOIL BORINGS		PROJECT NO. 24-0049-001-01 PC-2 SHEET 29
CITY PROJECT #XXXX BID #XXXX		DATE 12/8/2025
CRAVEN • THOMPSON AND ASSOCIATES, INC. ENGINEERS • PLANNERS • SURVEYORS 2542 N. 52ND STREET, FORT LAUDERDALE, FLORIDA 33309 TEL: (954) 739-6400 FAX: (954) 739-6409 FLORIDA LICENSED LANDSCAPE ARCHITECTURE NUMBER NO. 271		DATE 12/8/2025
APPROVED BY: KAM		DATE
CHECKED BY: KAM		DATE
DESIGNED BY: KAM		DATE
SCALE		DATE



APPENDIX C – ADDENDUM 1 - PERMITS

Mission:

To protect, promote & improve the health of all people in Florida through integrated state, county & community efforts.

**Ron DeSantis**

Governor

Joseph A. Ladapo, M.D., Ph.D.

State Surgeon General

Vision: To be the Healthiest State in the Nation

Notification of Acceptance of Use of a General Permit

Permittee:

Justin Barrington, P.E.
Deputy Director
City of Boca Raton Utilities Department
1401 Glades Road
Boca Raton, FL 33301
jbarrington@myboca.com

Permit Number: 138270-664-DSGP**Issue Date:** 07/18/2025**Expiration Date:** 07/17/2030**County:** Palm Beach**Project:** City of Boca Raton – Golden Harbour**Water Supplier:** City of Boca Raton**PWS ID:** 4500130

Dear Mr. Barrington:

On July 11, 2025 the Florida Department of Health-Palm Beach County, as an approved local program of the Florida Department of Environmental Protection, received a "Notice of Intent to Use the General Permit for Construction of Water Main Extensions for PWSs" [DEP Form No. [62-555.900\(7\)](#)], under the provisions of Rule [62-4.530](#) and Chapter [62-555](#), Florida Administrative Code (F.A.C.). The proposed project includes :

Construction of approximately 2,856 LF of 6" DIP, 2,074 LF 4" DIP and 126 LF 2" PVC water mains, five (5) fire hydrants, and twelve (12) sample points to replace existing water mains in the Golden Harbour neighborhood of the City of Boca Raton, Florida.

Based upon the submitted Notice and accompanying documentation, this correspondence is being sent to advise that the Department does not object to the use of such general permit at this time. Please be advised that the permittee is required to abide by Rule [62-555.405, F.A.C.](#), all applicable rules in Chapters [62-4](#), [62-550](#), [62-555](#), F.A.C., and the General Conditions for All General Drinking Water Permits (found in [62-4.540, F.A.C.](#)).

When any existing asbestos cement (AC) pipes are replaced under this permit, the permittee shall do so in accordance with the applicable rules of the Federal Asbestos Regulation and Florida DEP requirements. For specific requirements applicable to AC pipes, the permittee should contact the Air and Waste Management section managers prior to commencing any such activities at (561) 837-5900 #3. Please be aware that a notification is required to be submitted to the Department for a regulated project.

The permittee shall comply with all sampling requirements specific to this project. These requirements are attached for review and implementation. Pursuant to Rule [62-555.345, F.A.C.](#), the permittee shall submit a certification of construction completion [DEP Form No. [62-555.900\(9\)](#)] to the Department and obtain approval, or clearance, from the Department before placing any water main extension constructed under this general permit into operation for any purpose other than disinfection or testing for leaks.

Florida Department of Health, Palm Beach County
Division of Environmental Public Health
P.O. Box 29, 800 Clematis Street, West Palm Beach, FL 33402
PHONE: 561-837-5900 • FAX: [561-837-5294](tel:561-837-5294)
FloridaHealth.gov / palmbeach.floridahealth.gov

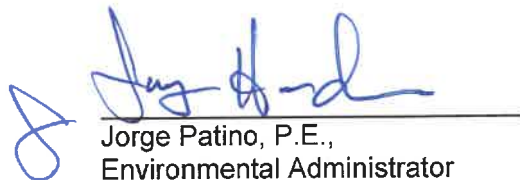


Accredited Health Department
Public Health Accreditation Board

Within 30 days after the sale or legal transfer of ownership of the permitted project that has not been cleared for service in total by the Department, both the permittee and the proposed permittee shall sign and submit an application for transfer of the permit using Form [62-555.900\(8\), F.A.C.](#), with the appropriate fee. The permitted construction is not authorized past the 30-day period unless the permit has been transferred.

This permit will expire five years from the date of issuance. If the project has been started and not completed by that time, a new permit must be obtained before the expiration date in order to continue work on the project, per Rule [62-4.030, F.A.C.](#)

Sincerely,
For the Division Director

A handwritten signature in blue ink, appearing to read "Jorge Patino", is written over a horizontal line.

Jorge Patino, P.E.,
Environmental Administrator
Division of Environmental Public Health

LM/JH/JP

c: Engineer-of-record: Kevin Menting, P.E.
Utility: Same

Civil Penalty May Be Incurred
if this project is placed into operation before obtaining a clearance from this office.

Requirements for clearance upon completion of projects are as follows:

1) Clearance Form

Submission of a fully completed Department of Environmental Protection (DEP) Form [62-555.900\(9\)](#) *Certification of Construction Completion and Request for Clearance to Place Permitted PWS Components into Operation.*

2) Record Drawings

Submission of the portion of record drawings showing deviations from the DEP construction permit, including preliminary design report or drawings and specifications, if there are any deviations from said permit (Note that it is necessary to submit a copy of only the portion of record drawings showing deviations and not a complete set of record drawings.).

3) Bacteriological Results

Copies of satisfactory bacteriological analysis (a.k.a. Main Clearance), taken within sixty (60) days of completion of construction, from locations within the distribution system or water main extension to be cleared, in accordance with Rules [62-555.315\(6\)](#), [62-555.340](#), and [62-555.330](#), F.A.C. and American Water Works Association (AWWA) Standard C 651-92, as follows:

- Connection to an existing system
- The end point of the proposed addition
- Any water lines branching off a main extension
- Every 1,200 feet on straight runs of pipe

Each location shall be sampled on two consecutive days, with sample points and chlorine residual readings clearly indicated on the report. A sketch or description of all bacteriological sampling locations must also be provided. **All samples shall be collected by an employee of a state certified laboratory or a certified operator and be reported on DEP Reporting Format 62-550.730.**

For further clarification contact:
Jay Hardman, P.E.
Plan Review Manager
Florida Department of Health Palm Beach
Plan Review & Permit Section
800 Clematis Street, 4th Floor
West Palm Beach, FL 33401
561-837-5900 #5



NOTICE OF INTENT TO USE THE GENERAL PERMIT FOR CONSTRUCTION OF WATER MAIN EXTENSIONS FOR PWSs

INSTRUCTIONS: This notice shall be completed and submitted by persons proposing to construct projects permitted under the "General Permit for Construction of Water Main Extensions for Public Water Systems" in Rule 62-555.405, F.A.C. AT LEAST 30 DAYS BEFORE BEGINNING CONSTRUCTION OF A WATER MAIN EXTENSION PROJECT, complete and submit one copy of this notice to the appropriate Department of Environmental Protection (DEP) District Office or Approved County Health Department (ACHD) along with payment of the proper permit processing fee. (When completed, Part II of this notice serves as the preliminary design report for a water main extension project, and thus, it is unnecessary to submit a separate preliminary design report or drawings, specifications, and design data with this notice.) All information provided in this notice shall be typed or printed in ink. The DEP permit processing fee for projects requiring the services of a professional engineer during design is \$650, and the DEP permit processing fee for projects not requiring the services of a professional engineer during design is \$500.* Some ACHDs charge a county permit processing fee in addition to the DEP permit processing fee. Checks for permit processing fees shall be made payable to the Department of Environmental Protection or the appropriate ACHD. NOTE THAT A SEPARATE NOTIFICATION AND A SEPARATE PERMIT PROCESSING FEE ARE REQUIRED FOR EACH NON-CONTIGUOUS PROJECT.†

* Except as noted in paragraphs 62-555.520(3)(a) and (b), F.A.C., projects shall be designed under the responsible charge of one or more professional engineers licensed in Florida.

† Non-contiguous projects are projects that are neither interconnected nor located nearby one another (i.e., on the same site, on adjacent streets, or in the same neighborhood).

I. General Project Information

A. Name of Project: **City of Boca Raton - Golden Harbour**

B. Description of Project and Its Purpose:

Existing water main replacement within Golden Harbour neighborhood. Proposed lengths, number of fire hydrants and sample points consist of the following:

126 LF 2" P.V.C.
2,074 LF 4" D.I.P.
2,856 LF 6" D.I.P.

5 Fire Hydrants
12 Sample Points

C. Location of Project

1. County Where Project Located: Palm Beach

2. Description of Project Location:

Golden Harbour neighborhood in the City of Boca Raton. Western limits: NE 5th Ave, Eastern Limits: Inter-coastal, Northern limits: NE Waterway Ln. Southern Limits: NE 4th Ln.

D. Estimate of Cost to Construct Project: \$2,000,000

E. Estimate of Dates for Starting and Completing Construction of Project:

November 2025 and November 2026

F. Permittee

PWS/Company Name: City of Boca Raton Utility Services		PWS Identification No.: * 4500130	
PWS Type: * ☒ Community ☐ Non-Transient Non-Community ☐ Transient Non-Community ☐ Consecutive			
Contact Person: Justin Barrington, P.E.		Contact Person's Title: Deputy Director	
Contact Person's Mailing Address: 1401 Glades Road			
City: Boca Raton		State: FL	Zip Code: 33431
Contact Person's Telephone Number: 561-338-7382		Contact Person's Fax Number:	
Contact Person's E-Mail Address: jbarrington@myboca.com			

* This information is required only if the permittee is a public water system (PWS).

G. Public Water System (PWS) Supplying Water to Project

PWS Name: City of Boca Raton Utility Services		PWS Identification No.:	
PWS Type: ☒ Community ☐ Non-Transient Non-Community ☐ Transient Non-Community ☐ Consecutive			
PWS Owner: City of Boca Raton			
Contact Person: Justin Barrington, P.E.		Contact Person's Title:	
Contact Person's Mailing Address: 1401 Glades Road			
City: Boca Raton		State: FL	Zip Code: 33431
Contact Person's Telephone Number: 561-338-7382		Contact Person's Fax Number:	
Contact Person's E-Mail Address: jbarrington@myboca.com			

NOTICE OF INTENT TO USE THE GENERAL PERMIT FOR CONSTRUCTION OF WATER MAIN EXTENSIONS FOR PWSs

Project Name: City of Boca Raton - Golden Harbour	Permittee: City of Boca Raton Utility Services
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H. Public Water System (PWS) that Will Own Project After It Is Placed into Permanent Operation

PWS Name: City of Boca Raton Utility Services		PWS Identification No.:*	
PWS Type:* ☒ Community ☐ Non-Transient Non-Community ☐ Transient Non-Community ☐ Consecutive			
PWS Owner: City of Boca Raton			
Contact Person: Justin Barrington, P.E.		Contact Person's Title:	
Contact Person's Mailing Address: 1401 Glades Road			
City: Boca Raton		State: FL	Zip Code: 33431
Contact Person's Telephone Number: 561-338-7382		Contact Person's Fax Number:	
Contact Person's E-Mail Address: jbarrington@myboca.com			

* This information is required only if the owner/operator is an existing PWS.

I. Professional Engineer(s) or Other Person(s) in Responsible Charge of Designing Project*

Company Name: Craven Thompson & Associates, Inc.		
Designer(s): Kevin Andrew Menting, P.E.		Title(s) of Designer(s): Senior Engineer
Qualifications of Designer(s):		
☒ Professional Engineer(s) Licensed in Florida – License Number(s): 92016		
☐ Public Officer(s) Employed by State, County, Municipal, or Other Governmental Unit of State†		
☐ Plumbing Contractor(s) Licensed in Florida – License Number(s):^		
Mailing Address of Designer(s): 3563 N.W. 53rd Street		
City: Fort Lauderdale		State: FL Zip Code: 33309
Telephone Number of Designer(s): (954) 739-6400 ext. 397		Fax Number of Designer(s): (954) 739-6409
E-Mail Address(es) of Designer(s): kmenting@craventhompson.com		

* Except as noted in paragraphs 62-555.520(3)(a) and (b), F.A.C., projects shall be designed under the responsible charge of one or more professional engineers licensed in Florida.

† Attach a detailed construction cost estimate showing that the cost to construct this project is \$10,000 or less.

^ Attach documentation showing that this project will be installed by the plumbing contractor(s) designing this project, documentation showing that this project involves a public water system serving a single property and fewer than 250 fixture units, and a detailed construction cost estimate showing that the cost to construct this project is \$50,000 or less.

II. Preliminary Design Report for Project*

A. Service Area, Water Use, and Service Pressure Information

1. Design Type and Number of Service Connections, and Average Daily Water Demands and Maximum-Day Water Demands, in the Entire Area to Be Served by the Water Mains Being Constructed Under this Project:

A = Type of Service Connection	B = Number of Service Connections	C = Average Daily Water Demand Per Service Connection, gpd	D = Total Average Daily Water Demand ^a , gpd (Columns BxC for Residential Service Connections)	E = Total Maximum-Day Water Demand ^b , gpd
Single-Family Home			0	
Mobile Home			0	
Apartment			0	
Commercial, Institutional, or Industrial Facility ^a				
Total	0		0	0

a. Description of Commercial, Institutional, or Industrial Facilities and Explanation of Method(s) Used to Estimate Average Daily Water Demand for These Facilities:

N/A, proposed improvements are upgrades to existing water distribution system.

b. Explanation of Peaking Factor(s) or Method(s) Used to Estimate Maximum-Day Water Demand:

N/A

NOTICE OF INTENT TO USE THE GENERAL PERMIT FOR CONSTRUCTION OF WATER MAIN EXTENSIONS FOR PWSs

Project Name: City of Boca Raton - Golden Harbour

Permittee: City of Boca Raton Utility Services

2. Explanation of Peaking Factor(s) or Method(s) Used to Estimate Design Peak-Hour Water Demand and, for Small Water Systems that Use Hydropneumatic Tanks or that Are Not Designed to Provide Fire Protection, Peak Instantaneous Water Demand:

N/A

3. Design Fire-Flow Rate and Duration:
1000 GPM

4. Design Service Pressure Range:
55-65 psi

B. Project Site Information

1. ATTACH A SITE PLAN OR SKETCH SHOWING THE SIZE AND APPROXIMATE LOCATION OF NEW OR ALTERED WATER MAINS, SHOWING THE APPROXIMATE LOCATION OF HYDRANTS, VALVES, METERS, AND BLOW-OFFS IN SAID MAINS, AND SHOWING HOW SAID MAINS CONNECT TO THE PUBLIC WATER SYSTEM SUPPLYING WATER FOR THE PROJECT.
2. Description of Any Areas Where New or Altered Water Mains Will Cross Above or Under Surface Water or Be Located in Soil that Is Known to Be Aggressive:

N/A

C. Information About Compliance with Design and Construction Requirements

1. If this project is being designed to comply with the following requirements, initial in ink before the requirements. If any of the following requirements do not apply to this project or if this project includes exceptions to any of the following requirements as allowed by rule, mark "X" before the requirements and complete Part II.C.2 below. *RSWW* = *Recommended Standards for Water Works* as incorporated into Rule 62-555.330, F.A.C.

- | | |
|----|---|
| KM | a. This project is being designed to keep existing water mains and service lines in operation during construction or to minimize interruption of water service during construction. [<i>RSWW</i> 1.3.a; exceptions allowed under FAC 62-555.330] |
| KM | b. All pipe, pipe fittings, pipe joint packing and jointing materials, valves, fire hydrants, and meters installed under this project will conform to applicable American Water Works Association (AWWA) standards. [FAC 62-555.320(21)(b), <i>RSWW</i> 8.0, and AWWA standards as incorporated into FAC 62-555.330; exceptions allowed under FAC 62-555.320(21)(c)] |
| KM | c. All public water system components, excluding fire hydrants, that will be installed under this project and that will come into contact with drinking water will conform to NSF International Standard 61 as adopted in Rule 62-555.335, F.A.C., or other applicable standards, regulations, or requirements referenced in paragraph 62-555.320(3)(b), F.A.C. [FAC 62-555.320(3)(b), exceptions allowed under FAC 62-555.320(3)(d)] |
| KM | d. All pipe and pipe fittings installed under this project will contain no more than 8.0% lead, and any solder or flux used in this project will contain no more than 0.2% lead. [FAC 62-555.322] |
| KM | e. All pipe and pipe fittings installed under this project will be color coded or marked in accordance with subparagraph 62-555.320(21)(b)3, F.A.C., using blue as a predominant color. (Underground plastic pipe will be solid-wall blue pipe, will have a co-extruded blue external skin, or will be white or black pipe with blue stripes incorporated into, or applied to, the pipe wall; and underground metal or concrete pipe will have blue stripes applied to the pipe wall. Pipe striped during manufacturing of the pipe will have continuous stripes that run parallel to the axis of the pipe, that are located at no greater than 90-degree intervals around the pipe, and that will remain intact during and after installation of the pipe. If tape or paint is used to stripe pipe during installation of the pipe, the tape or paint will be applied in a continuous line that runs parallel to the axis of the pipe and that is located along the top of the pipe; for pipe with an internal diameter of 24 inches or greater, tape or paint will be applied in continuous lines along each side of the pipe as well as along the top of the pipe. Aboveground pipe will be painted blue or will be color coded or marked like underground pipe.) [FAC 62-555.320(21)(b)3] |
| KM | f. All new or altered water mains included in this project are sized after a hydraulic analysis based on flow demands and pressure requirements. ATTACH A HYDRAULIC ANALYSIS JUSTIFYING THE SIZE OF ANY NEW OR ALTERED WATER MAINS WITH AN INSIDE DIAMETER OF LESS THAN THREE INCHES. [FAC 62-555.320(21)(b) and <i>RSWW</i> 8.1] |

NOTICE OF INTENT TO USE THE GENERAL PERMIT FOR CONSTRUCTION OF WATER MAIN EXTENSIONS FOR PWSs

Project Name: City of Boca Raton - Golden Harbour	Permittee: City of Boca Raton Utility Services
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- | | |
|----|--|
| KM | g. The inside diameter of new or altered water mains that are included in this project and that are being designed to provide fire protection and serve fire hydrants will be at least six inches. [FAC 62-555.320(21)(b) and <i>RSWW</i> 8.1.2] |
| KM | h. New or altered water mains that are included in this project and that are <u>not</u> being designed to carry fire flows do <u>not</u> have fire hydrants connected to them. [FAC 62-555.320(21)(b) and <i>RSWW</i> 8.1.5] |
| KM | i. This project is being designed to minimize dead-end water mains by making appropriate tie-ins where practical. [FAC 62-555.320(21)(b) and <i>RSWW</i> 8.1.6.a] |
| KM | j. New or altered dead-end water mains included in this project will be provided with a fire or flushing hydrant or blow-off for flushing purposes. [FAC 62-555.320(21)(b) and <i>RSWW</i> 8.1.6.b] |
| KM | k. Sufficient valves will be provided on new or altered water mains included in this project so that inconvenience and sanitary hazards will be minimized during repairs. [FAC 62-555.320(21)(b) and <i>RSWW</i> 8.2] |
| KM | l. New or altered fire hydrant leads included in this project will have an inside diameter of at least six inches and will include an auxiliary valve. [FAC 62-555.320(21)(b) and <i>RSWW</i> 8.3.3] |
| x | m. All fire hydrants that will be installed under this project and that will have unplugged, underground drains will be located at least three feet from any existing or proposed storm sewer, stormwater force main, pipeline conveying reclaimed water regulated under Part III of Chapter 62-610, F.A.C., or vacuum-type sanitary sewer; at least six feet from any existing or proposed gravity- or pressure-type sanitary sewer, wastewater force main, or pipeline conveying reclaimed water <u>not</u> regulated under Part III of Chapter 62-10, F.A.C.; and at least ten feet from any existing or proposed "on-site sewage treatment and disposal system." [FAC 62-555.314(4)] |
| x | n. At high points where air can accumulate in new or altered water mains included in this project, provisions will be made to remove the air by means of air relief valves, and automatic air relief valves will <u>not</u> be used in situations where flooding of the valve manhole or chamber may occur. [FAC 62-555.320(21)(b) and <i>RSWW</i> 8.4.1] |
| x | o. The open end of the air relief pipe from all automatic air relief valves installed under this project will be extended to at least one foot above grade and will be provided with a screened, downward-facing elbow. [FAC 62-555.320(21)(b) and <i>RSWW</i> 8.4.2] |
| KM | p. New or altered chambers, pits, or manholes that contain valves, blow-offs, meters, or other such water distribution system appurtenances and that are included in this project will <u>not</u> be connected directly to any sanitary or storm sewer, and blow-offs or air relief valves installed under this project will <u>not</u> be connected directly to any sanitary or storm sewer. [FAC 62-555.320(21)(b) and <i>RSWW</i> 8.4.3] |
| KM | q. New or altered water mains included in this project will be installed in accordance with applicable AWWA standards or in accordance with manufacturers' recommended procedures. [FAC 62-555.320(21)(b), <i>RSWW</i> 8.5.1, and AWWA standards as incorporated into FAC 62-555.330] |
| KM | r. A continuous and uniform bedding will be provided in trenches for underground pipe installed under this project; backfill material will be tamped in layers around underground pipe installed under this project and to a sufficient height above the pipe to adequately support and protect the pipe; and unsuitably sized stones (as described in applicable AWWA standards or manufacturers' recommended installation procedures) found in trenches will be removed for a depth of at least six inches below the bottom of underground pipe installed under this project. [FAC 62-555.320(21)(b), <i>RSWW</i> 8.5.2] |
| KM | s. All water main tees, bends, plugs, and hydrants installed under this project will be provided with thrust blocks or restrained joints to prevent movement. [FAC 62-555.320(21)(b) and <i>RSWW</i> 8.5.4] |
| KM | t. New or altered water mains that are included in this project and that will be constructed of asbestos-cement or polyvinyl chloride pipe will be pressure and leakage tested in accordance with AWWA Standard C603 or C605, respectively, as incorporated into Rule 62-555.330, F.A.C., and all other new or altered water mains included in this project will be pressure and leakage tested in accordance with AWWA Standard C600 as incorporated into Rule 62-555.330. [FAC 62-555.320(21)(b)1 and AWWA standards as incorporated into FAC 62-555.330] |
| KM | u. New or altered water mains, including fire hydrant leads and including service lines that will be under the control of a public water system and that have an inside diameter of three inches or greater, will be disinfected and bacteriologically evaluated in accordance with Rule 62-555.340, F.A.C. [FAC 62-555.320(21)(b)2 and FAC 62-555.340] |
| x | v. New or altered water mains that are included in this project and that will be installed in areas where there are known aggressive soil conditions will be protected through use of corrosion-resistant water main materials, through encasement of the water mains in polyethylene, or through provision of cathodic protection. [FAC 62-555.320(21)(b) and <i>RSWW</i> 8.5.7.d] |

NOTICE OF INTENT TO USE THE GENERAL PERMIT FOR CONSTRUCTION OF WATER MAIN EXTENSIONS FOR PWSs

Project Name: City of Boca Raton - Golden Harbour

Permittee: City of Boca Raton Utility Services

- KM w. New or relocated, underground water mains included in this project will be laid to provide a horizontal distance of at least three feet between the outside of the water main and the outside of any existing or proposed vacuum-type sanitary sewer, storm sewer, stormwater force main, or pipeline conveying reclaimed water regulated under Part III of Chapter 62-610, F.A.C.; a horizontal distance of at least six feet between the outside of the water main and the outside of any existing or proposed gravity-type sanitary sewer (or a horizontal distance of at least three feet between the outside of the water main and the outside of any existing or proposed gravity-type sanitary sewer if the bottom of the water main will be laid at least six inches above the top of the sewer); a horizontal distance of at least six feet between the outside of the water main and the outside of any existing or proposed pressure-type sanitary sewer, wastewater force main, or pipeline conveying reclaimed water not regulated under Part III of Chapter 62-610, F.A.C.; and a horizontal distance of at least ten feet between the outside of the water main and all parts of any existing or proposed "on-site sewage treatment and disposal system." [FAC 62-555.314(1); exceptions allowed under FAC 62-555.314(5)]
- KM x. New or relocated, underground water mains that are included in this project and that will cross any existing or proposed gravity- or vacuum-type sanitary sewer or storm sewer will be laid so the outside of the water main is at least six inches above the other pipeline or at least 12 inches below the other pipeline; and new or relocated, underground water mains that are included in this project and that will cross any existing or proposed pressure-type sanitary sewer, wastewater or stormwater force main, or pipeline conveying reclaimed water will be laid so the outside of the water main is at least 12 inches above or below the other pipeline. [FAC 62-555.314(2); exceptions allowed under FAC 62-555.314(5)]
- KM y. At the utility crossings described in Part II.C.1.w above, one full length of water main pipe will be centered above or below the other pipeline so the water main joints will be as far as possible from the other pipeline or the pipes will be arranged so that all water main joints are at least three feet from all joints in vacuum-type sanitary sewers, storm sewers, stormwater force mains, or pipelines conveying reclaimed water regulated under Part III of Chapter 62-610, F.A.C., and at least six feet from all joints in gravity- or pressure-type sanitary sewers, wastewater force mains, or pipelines conveying reclaimed water not regulated under Part III of Chapter 62-610, F.A.C. [FAC 62-555.314(2); exceptions allowed under FAC 62-555.314(5)]
- x z. New or altered water mains that are included in this project and that will cross above surface water will be adequately supported and anchored, protected from damage and freezing, and accessible for repair or replacement. [FAC 62-555.320(21)(b) and *RSWW* 8.7.1]
- x aa. New or altered water mains that are included in this project and that will cross under surface water will have a minimum cover of two feet. [FAC 62-555.320(21)(b) and *RSWW* 8.7.2]
- x bb. New or altered water mains that are included in this project and that will cross under surface water courses greater than 15 feet in width will have flexible or restrained, watertight pipe joints and will include valves at both ends of the water crossing so the underwater main can be isolated for testing and repair; the aforementioned isolation valves will be easily accessible and will not be subject to flooding; the isolation valve closest to the water supply source will be in a manhole; and permanent taps will be provided on each side of the isolation valve within the manhole to allow for insertion of a small meter to determine leakage from the underwater main and to allow for sampling of water from the underwater main. [FAC 62-555.320(21)(b) and *RSWW* 8.7.2]
- KM cc. This project is being designed to include proper backflow protection at those new or altered service connections where backflow protection is required or recommended under Rule 62-555.360, F.A.C., or in *Recommended Practice for Backflow Prevention and Cross-Connection Control*, AWWA Manual M14, as incorporated into Rule 62-555.330, F.A.C.; or the public water system that will own this project after it is placed into operation has a cross-connection control program requiring water customers to install proper backflow protection at those service connections where backflow protection is required or recommended under Rule 62-555.360, F.A.C., or in AWWA Manual M14. [FAC 62-555.360 and AWWA Manual M14 as incorporated into FAC 62-555.330]
- KM dd. Neither steam condensate, cooling water from engine jackets, nor water used in conjunction with heat exchangers will be returned to the new or altered water mains included in this project. [FAC 62-555.320(21)(b) and *RSWW* 8.8.2]

NOTICE OF INTENT TO USE THE GENERAL PERMIT FOR CONSTRUCTION OF WATER MAIN EXTENSIONS FOR PWSs

Project Name: City of Boca Raton - Golden Harbour

Permittee: City of Boca Raton Utility Services

2. Explanation for Requirements Marked "X" in Part II.C.1 Above, Including Justification, Documentation, Assurances, and/or Alternatives as Required by Rule for Exceptions to Requirements in Part II.C.1:

X-Not applicable

m. Proposed Fire Hydrants do not have unplugged, underground drains.

n and o. Typical water distribution mains with residential housing water services connected do not require air relief valves at high points. Air relief provided by services.

v. Proposed water main upgrades are not installed within known aggressive soil conditions.

z, aa, and bb. Proposed water main upgrades do not include surface water crossings.

I completed Part II of this notice, and the information provided in Part II and on the attachment(s) to Part II is true and accurate to the best of my knowledge and belief.

Signature, Seal, and Date of Professional Engineer (PE) or
Signature and Date of Other Person in Responsible Charge of
Designing Project:*

**Kevin
Andrew
Menting** Digitally signed
by Kevin Andrew
Menting
Date: 2025.07.18
08:56:09 -04'00'

Printed/Typed Name: Kevin Andrew Menting

License Number of PE or License Number or Title of Other
Person in Responsible Charge of Designing Project:*

92016

Portion of Preliminary Design Report for Which Responsible:
None

Signature, Seal, and Date of Professional Engineer (PE) or
Signature and Date of Other Person in Responsible Charge of
Designing Project:*

Printed/Typed Name:

License Number of PE or License Number or Title of Other
Person in Responsible Charge of Designing Project:*

Portion of Preliminary Design Report for Which Responsible:

* Except as noted in paragraphs 62-555.520(3)(a) and (b), F.A.C., projects shall be designed under the responsible charge of one or more PEs licensed in Florida. If this project is being designed under the responsible charge of one or more PEs licensed in Florida, Part II of this notice shall be completed, signed, sealed, and dated by the PE(s) in responsible charge. If this project is not being designed under the responsible charge of one or more PEs licensed in Florida, Part II shall be completed, signed, and dated by the person(s) in responsible charge of designing this project.

NOTICE OF INTENT TO USE THE GENERAL PERMIT FOR CONSTRUCTION OF WATER MAIN EXTENSIONS FOR PWSs

Project Name: City of Boca Raton - Golden Harbour

Permittee: City of Boca Raton Utility Services

III. Certifications

A. Certification by Permittee

I am duly authorized to sign this notice on behalf of the permittee identified in Part I.F of this notice. I certify that, to the best of my knowledge and belief, this project complies with Chapter 62-555, F.A.C. I also certify that construction of this project has not begun yet and that, to the best of my knowledge and belief, this project does not include any of the following construction work:

- construction of water mains conveying raw or partially treated drinking water;
- construction of drinking water treatment, pumping, or storage facilities or conflict manholes;
- construction of water mains in areas contaminated by low-molecular-weight petroleum products or organic solvents;
- construction of an interconnection between previously separate public water systems or construction of water mains that create a "new system" as described under subsection 62-555.525(1), F.A.C.; or
- construction of water mains that will remain dry following completion of construction.

(A specific construction permit is required for each project involving any of the above listed construction work.)

I understand that, if this project is designed under the responsible charge of one or more professional engineers (PEs) licensed in Florida, the permittee must retain a Florida-licensed PE to take responsible charge of inspecting construction of this project for the purpose of determining in general if the construction proceeds in compliance with the Department of Environmental Protection construction permit, including the approved preliminary design report, for this project. I understand that the permittee must have complete record drawings prepared for this project. I also understand that the permittee must submit a certification of construction completion to the Department and obtain written approval, or clearance, from the Department before the permittee places this project into operation for any purpose other than disinfection or testing for leaks.


Signature and Date

07-18-2025

Justin Barrington, P.E.

Printed or Typed Name

Deputy Director

Title

B. Certification by PWS Supplying Water to Project

I am duly authorized to sign this notice on behalf of the PWS identified in Part I.G of this notice. I certify that said PWS will supply the water necessary to meet the design water demands for this project. As indicated below, the water treatment plant(s) to which this project will be connected has(have) the capacity necessary to meet the design water demands for this project, and I certify that all other PWS components affected by this project also have the capacity necessary to meet the design water demands for this project. I certify that said PWS is in compliance with applicable planning requirements in Rule 62-555.348, F.A.C.; applicable cross-connection control requirements in Rule 62-555.360, F.A.C.; and to the best of my knowledge and belief, all other applicable rules in Chapters 62-550, 62-555, and 62-699, F.A.C.; furthermore, I certify that, to the best of my knowledge and belief, said PWS's connection to this project will not cause said PWS to be in noncompliance with Chapter 62-550 or 62-555, F.A.C. I also certify that said PWS has reviewed the preliminary design report for this project and that said PWS considers the connection(s) between this project and said PWS acceptable as designed.

- Name(s) of Water Treatment Plant(s) to Which this Project Will Be Connected:

City of Boca Raton Water Treatment Plant

- Total Permitted Maximum Day Operating Capacity of Plant(s), gpd: 70,000,000
- Total Maximum Day Flow at Plant(s) as Recorded on Monthly Operating Reports During Past 12 Months, gpd: 42,605,00


Signature and Date

07-18-2025

Justin Barrington, P.E.

Printed or Typed Name

Deputy Director

Title

C. Certification by PWS that Will Own Project After It Is Placed into Permanent Operation

I am duly authorized to sign this notice on behalf of the PWS identified in Part I.H of this notice. I certify that said PWS will own this project after it is placed into permanent operation. I also certify that said PWS has reviewed the preliminary design report for this project and that said PWS considers this project acceptable as designed.


Signature and Date

07-18-2025

Justin Barrington, P.E.

Printed or Typed Name

Deputy Director

Title

NOTICE OF INTENT TO USE THE GENERAL PERMIT FOR CONSTRUCTION OF WATER MAIN EXTENSIONS FOR PWSs

Project Name: City of Boca Raton - Boca Villas Infrastructure Upgrades

Permittee: City of Boca Raton Utility Services

D. Certification by Professional Engineer(s) in Responsible Charge of Designing Project*

I, the undersigned professional engineer licensed in Florida, am in responsible charge of designing this project. I certify that, to the best of my knowledge and belief, the design of this project complies with Chapter 62-555, F.A.C. I also certify that, to the best of my knowledge and belief, this project is not being designed to include any of the following construction work:

- construction of water mains conveying raw or partially treated drinking water;
- construction of drinking water treatment, pumping, or storage facilities or conflict manholes;
- construction of water mains in areas contaminated by low-molecular-weight petroleum products or organic solvents;
- construction of an interconnection between previously separate public water systems or construction of water mains that create a "new system" as described under subsection 62-555.525(1), F.A.C.; or
- construction of water mains that will remain dry following completion of construction.

(A specific construction permit is required for each project involving any of the above listed construction work.)

Signature, Seal, and Date:

**Kevin
Andrew
Menting** Digitally signed
by Kevin Andrew
Menting
Date: 2025.07.18
08:56:37 -04'00'

Printed/Typed Name: Kevin Andrew Menting

License Number: 92016

Portion of Preliminary Design Report for Which Responsible:
None

Signature, Seal, and Date:

Printed/Typed Name:

License Number:

Portion of Preliminary Design Report for Which Responsible:

* Except as noted in paragraphs 62-555.520(3)(a) and (b), F.A.C., projects shall be designed under the responsible charge of one or more professional engineers (PEs) licensed in Florida. If this project is being designed under the responsible charge of one or more PEs licensed in Florida, Part III.D of this notice shall be completed by the PE(s) in responsible charge. If this project is not being designed under the responsible charge of one or more PEs licensed in Florida, Part III.D does not have to be completed.

APPENDIX D – ADDENDUM 1 - METER SIZE EXHIBIT

Number	Location Address	Meter Size
1	500 NE 5TH AVE	1
2	501 NE 4TH LN	1
3	521 NE 4TH LN	1
4	555 NE 4TH LN	1
5	550 NE 4TH LN	1
6	540 NE 4TH LN	1
7	532 NE 4TH LN	1.5
8	520 NE 4TH LN	1
9	510 NE 4TH LN	1
10	501 GOLDEN HARBOUR DR	1
11	511 GOLDEN HARBOUR DR	1
12	521 GOLDEN HARBOUR DR	1
13	531 GOLDEN HARBOUR DR	1
14	530 GOLDEN HARBOUR DR	1
15	520 GOLDEN HARBOUR DR	1
16	510 GOLDEN HARBOUR DR	1
17	500 GOLDEN HARBOUR DR	1
18	500 GOLDEN HARBOUR DR	1
19	541 GOLDEN HARBOUR DR	1
20	551 GOLDEN HARBOUR DR	1
21	561 GOLDEN HARBOUR DR	1
22	571 GOLDEN HARBOUR DR	1
23	581 GOLDEN HARBOUR DR	1
24	591 GOLDEN HARBOUR DR	1
25	601 GOLDEN HARBOUR DR	1
26	611 GOLDEN HARBOUR DR	1
27	621 GOLDEN HARBOUR DR	1
28	631 GOLDEN HARBOUR DR	1
29	641 GOLDEN HARBOUR DR	1
30	660 GOLDEN HARBOUR DR	1
31	650 GOLDEN HARBOUR DR	1.5
32	640 GOLDEN HARBOUR DR	1
33	630 GOLDEN HARBOUR DR	1
34	620 GOLDEN HARBOUR DR	1
35	610 GOLDEN HARBOUR DR	1
36	600 GOLDEN HARBOUR DR	1
37	590 GOLDEN HARBOUR DR	1
38	580 GOLDEN HARBOUR DR	1
39	570 GOLDEN HARBOUR DR	1
40	560 GOLDEN HARBOUR DR	1
41	550 GOLDEN HARBOUR DR	1
42	540 GOLDEN HARBOUR DR	1
43	511 PHILLIPS DR	1
44	521 PHILLIPS DR	1
45	531 PHILLIPS DR	1

46	541 PHILLIPS DR	1
47	551 PHILLIPS DR	1
48	561 PHILLIPS DR	1
49	571 PHILLIPS DR	1
50	590 PHILLIPS DR	1
51	580 PHILLIPS DR	1
52	570 PHILLIPS DR	1
53	560 PHILLIPS DR	1
54	550 PHILLIPS DR	1
55	540 PHILLIPS DR	1
56	530 PHILLIPS DR	1
57	520 PHILLIPS DR	1
58	510 PHILLIPS DR	1
59	500 PHILLIPS DR	1
60	651 GOLDEN HARBOUR DR	1
61	661 GOLDEN HARBOUR DR	1
62	671 GOLDEN HARBOUR DR	1
63	681 GOLDEN HARBOUR DR	1
64	691 GOLDEN HARBOUR DR	1
65	700 GOLDEN HARBOUR DR	1.5
66	690 GOLDEN HARBOUR DR	1.5
67	680 GOLDEN HARBOUR DR	1
68	670 GOLDEN HARBOUR DR	1
69	581 PHILLIPS DR	1
70	591 PHILLIPS DR	1
71	601 PHILLIPS DR	1
72	611 PHILLIPS DR	1
73	630 PHILLIPS DR	1
74	620 PHILLIPS DR	1
75	610 PHILLIPS DR	1
76	600 PHILLIPS DR	1
77	511 SILVER LN	1
78	521 SILVER LN	1
79	531 SILVER LN	1
80	541 SILVER LN	1.5
81	551 SILVER LN	1
82	561 SILVER LN	1
83	571 SILVER LN	1
84	581 SILVER LN	1
85	591 SILVER LN	1
86	600 SILVER LN	1.5
87	601 SILVER LN	1
88	590 SILVER LN	2
89	580 SILVER LN	1
90	570 SILVER LN	1
91	560 SILVER LN	1.5
92	501 KAY TER	1

93	511 KAY TER	1
94	521 KAY TER	1
95	521 KAY TER	1
96	541 KAY TER	1
97	540 KAY TER	1.5
98	530 KAY TER	1
99	520 KAY TER	1
100	510 KAY TER	1
101	500 KAY TER	1
102	501 NE 14TH ST	1
103	511 NE 14TH ST	1
104	521 NE 14TH ST	1
105	531 NE 14TH ST	1
106	541 NE 14TH ST	1
107	551 NE 14TH ST	1
108	560 NE 14TH ST	1
109	550 NE 14TH ST	1
110	540 NE 14TH ST	1
111	530 NE 14TH ST	1
112	520 NE 14TH ST	1
113	510 NE 14TH ST	1
114	500 NE 14TH ST	1
115	500 SILVER LN	1
116	510 SILVER LN	1
117	520 SILVER LN	1
118	530 SILVER LN	1
119	540 SILVER LN	1
120	546 SILVER LN	1
121	550 SILVER LN	1
122	661 GOLDEN HARBOUR DR SP	1