PUBLIC WORKS AND UTILITIES COMMITTEE
AGENDA

There will be a meeting of the Public Works and Utilities Committee on August 15, 2022 to begin at 4:30 pm. The following items will be heard via call-in number 1-929-205-6099 and access code 592 385 519:

A. Invocation

B. Approval of Public Works and Utilities Committee Minutes

C. Request to Set a Public Hearing

D. Old Business
   None

E. Acceptance and Dedication of Rights-of-Way and Easements

1. Hopewell Residential, Phase 1. Authorization for the acceptance and dedication of those certain rights-of-ways designated as- Matisse Street (50’ R/W, 1019 LF), Pop Pop Lane (20’ R/W, 285 LF), Roost Lane (20’ R/W, 308 LF), Havana Street (50’ R/W, 611 LF), Gumbo Alley 20’ R/W, 1383 LF), Sanders House Street (R/W Varies, 1684 LF), Bold Reason Street (50’ R/W, 435 LF), Generals Street (50’ R/W, 900 LF), a portion of Hopewell Drive (57’ R/W, 10 LF).
   (i) Title to Real Estate
   (ii) Affidavit for Taxable or Exempt Transfers
   (iii) Exclusive Stormwater Drainage Easement Agreement
   (iv) Plat
   This subdivision consists of 63 lots.

2. Twin Lakes, Phase 2 A. Authorization for the acceptance and dedication of those certain rights-of-ways designated as- Twin Lakes Avenue (22’ R/W, 440 LF),
Bluegill Lane (22’ R/W, 703 LF), Soundcrest Road 22’ R/W, 145 LF), Blue Bayou Blvd. ( 50’ R/W, 1,110 LF), Crystal Springs Road (50’ R/W, 1,114 LF).

(i) Title to Real Estate
(ii) Affidavit for Taxable or Exempt Transfers
(iii) Exclusive Stormwater Drainage Easement Agreement
(iv) Plat

This subdivision consists of 61 lots.

3. Westedge, Phase 1. Authorization for the acceptance and dedication of those certain rights -of-ways designated as- Westedge Street (R/W, LF ), Horizon Street (R/W LF), and District Drive ( R/W, LF).

(i) Title to real Estate
(ii) Affidavit for Taxable or Exempt Transfers
(iii) Exclusive Stormwater Drainage Easement Agreement
(iv) Plat

4. Authorization to notify SCDOT that the City intends to accept maintenance of 22 LF of granite curb and 58 LF of concrete sidewalk on Ashley Avenue (S-10-103) in conjunction with the project at 14 Cannon Street.

5. Authorization to notify SCDOT that the City will accept maintenance of the proposed 72" Check Valve and associated trash rack and junction boxes at the western outfall of Calhoun St with the following conditions

(i) City staff approves the final design
(ii) Installation meets City requirements and passes City inspection
(iii) The Check Valve is manufactured by WaStop

F. Temporary Encroachments Approved by The Department of Public Service
(For information only)

1. 159 Wentworth Street- Vacasa- Installation of a right-angle sign. This encroachment is temporary.
2. 215 Fell Point- installation of irrigation in the City right-of-way. This encroachment is temporary.
3. 108 North Market- Benne’s By Peninsula Grill- Installation of right-angle sign. This encroachment is temporary.
4. 55 South Market- Gingerline- Installation of a right-angle sign. This encroachment is temporary.
5. 2401 Hymes Court- Installation of a fence in City drainage easement. This encroachment is temporary.
6. 102 Church Street-Ava Von Auersperg: Installation of an awning in the right of way. This encroachment is temporary.
7. 601 Meeting Street: Installation of a canopy sign. This encroachment is temporary.
8. 41 Pendleton Street: Installation of a brick driveway apron. This encroachment is temporary.

G. Public Service Department Update

H. Stormwater Management Department Update

(i). Barberry Woods Drainage Improvements – Recommend approval to submit an application to the SC Office of Resilience Revolving Loan Fund in the amount of $3,300,000 to support construction of Barberry Woods Drainage Improvements project on Johns Island. No match is required for the loan. The pay-back period is 10 years with an interest rate no higher than 40% of the market rate. Loan program provides potential for 25% of the loan to be converted to a no-match grant.

(ii). Long Branch Creek – Recommend approval to submit an application to the NOAA Transformational Habitat Restoration & Coastal Resilience grant to support the design and permitting of the Long Branch Creek Drainage Improvements in West Ashley. Grant funding request is $1,500,000 with a 50/50 City Match of $1,500,000 that is currently available from the allocated Drainage Fund for the project.

(iii). Concord St Pump Station Upfit – Recommend approval to submit an application to the SCRIA ARPA-SC Infrastructure Investment Program to support the construction of the Concord St Pump Station Upfit project. Grant funding request is $10,000,000 with a 25/75 City Match of $3,333,333 that is currently available from the allocated Drainage Fund for the project.

(iv). Central Park Drainage Improvements – Recommend approval of Work Authorization #9 with AECOM for a professional services contract to design and permit the Central Park Drainage Improvement Project Areas 1 & 2 in the Central Park/Wambaw Watershed on James Island for $433,992.00. Funds are available in the currently allocated Drainage Fund for the project.
(v). Cooper/Jackson Drainage Improvements – Recommend approval of Work Authorization #10 with AECOM for a professional services contract to design and permit the Cooper/Jackson Drainage Improvement Projects Phase 1 through 3 in the East Side of the Peninsula for $667,156.00. Funds are available in the currently allocated Cooper River Bridge TIF for the project.

(vi.) Lee St Emergency Repair – Recommend approval of Emergency Repair work completed to repair a 42" collapsed reinforced concrete pipe at Lee St and America St adjacent to the SC State Extension Service building by B&C Land Development Inc for $62,009.00

I. Miscellaneous Business

Councilmember Keith Waring,
Chairperson

In accordance with the Americans with Disabilities Act, people who need alternative formats, ASL (American Sign Language) Interpretation or other accommodation please contact Janet Schumacher at (843) 577-1389 or email to schumacherj@charleston-sc.gov three business days prior to the meeting.
STATE OF SOUTH CAROLINA

COUNTY OF BERKELEY

KNOW ALL MEN BY THESE PRESENTS, that Cainhoy Land & Timber, LLC ("Grantor") in the state aforesaid, for and in consideration of the sum of ONE AND 00 100 DOLLAR ($1.00), being the true consideration to it in hand paid at and before the sealing of these presents by the CITY OF CHARLESTON, the receipt whereof is hereby acknowledged, has granted, bargained, sold and released, and by these presents does grant, bargain, sell and release unto the said CITY OF CHARLESTON ("Grantee"), its successors and assigns, forever, the following described property which is granted, bargained, sold and released for the use of the public forever:

All of the property undermentioned, above, and containing those certain streets, roads, drives, and cul-de-sacs situate, lying and being in the City of Charleston, County of Berkeley, State of South Carolina, identified as (list street names) Generals Street (New 50’ Public R/W), Gumbo Alley (New 20’ Public R/W), Bold Reason Street (New 50’ Public R/W), Sanders House Street (V/W Public R/W), Havana Street (50’ Public R/W), Matisse Street (50’ Public R/W), Hopewell Drive (57’ Public R/W), * as shown and designated on a plat entitled "FINAL SUBDIVISION PLAT OF A PORTION OF POINT HOPE TO CREATE HOPEWELL RESIDENTIAL PHASE I AND EASEMENTS, CITY OF CHARLESTON, BERKELEY COUNTY, SOUTH CAROLINA. PREPARED FOR CAINHOY LAND & TIMBER, LLC"

prepared by F. Elliott Quinn of Thomas & Hutton Engineering Co.
dated January 26, 2022., revised, and recorded on
in Plat Book ______________ at Page ______________ in the ROD Office for Berkeley County. Said property butting and bounding, measuring and containing, and having such courses and distances as are shown on said plat. Reference being had to the aforesaid plat for a full and complete description, being all of the said dimensions, a little more or a little less.

This being a portion of the property conveyed to Grantor herein by deed of the JP Morgan Chase Bank, et al. dated May 15, 2008 and recorded May 28, 2008 in Book 7368 at Page ______________ in the ROD Office for Berkeley County, South Carolina.

Grantee’s Mailing Address:
City of Charleston
Department of Public Service
Engineering Division
2 George Street
Suite 2100
Charleston, South Carolina 29401

Portion of TMS No.: 262-00-00-008

* Roost Lane (New 20’ Public R/W), Pop Pop Lane (New 20’ Public R/W)
TOGETHER with all and singular, the rights, members, hereditaments and appurtenances to the said premises belonging, or in anywise incident or appertaining.

TO HAVE AND TO HOLD. all and singular, the said premises before mentioned unto the CITY OF CHARLESTON. its successors and assigns forever.

AND Grantor does hereby bind itself and its heirs, executors and administrators, to warrant and forever defend all and singular, the said premises unto the said City of Charleston, heirs and assigns, against Grantor and its heirs, and all persons whomsoever lawfully claiming, or to claim the same or any part thereof.

WITNESS our Hand(s) and Seal(s) this 15th day of February, 2022.

SIGNED, SEALED AND DELIVERED IN THE PRESENCE OF:

Witness Number One

Witness Number Two

Printed Name

Printed Name

Grantor

By Matthew R. Sloan, its President

Printed Name

***********

STATE OF SOUTH CAROLINA

COUNTY OF CHARLESTON

This foregoing instrument was acknowledged before me (the undersigned notary) by Matthew R. Sloan, as President of DI Development Company, Inc., the Authorized Agent, of Cainhoy Land & Timber, LLC, a Delaware Limited Liability Company on behalf of the Grantor on the 15th day of February, 2022.

Signature of Notary: __________________________

Print Name of Notary: __________________________

Notary Public for: __________________________

My Commission Expires: __________________________

SEAL OF NOTARY

[Stamp]
STATE OF SOUTH CAROLINA
COUNTY OF BERKELEY

PERSONALLY appeared before me the undersigned, who being duly sworn, deposes and says.

1. I have read the information on this Affidavit and I understand such information.

2. The Property [Open Space HOA Area HW-A-1. Open Space HOA Area HW-C 1. Open Space HOA Area HW-C 2. Open Space HOA Area HW-D 1. Open Space HOA Area HW-D 2. Open Space HOA Area HW-E-1. Open Space HOA Area HW-H-1. Open Space HOA Area HW-J-1. and Open Space HOA Area HW-L-1. City of Charleston, Berkeley County, Portion of TMS No. 262-00-00-008], is being transferred by Cainho Land & Timber, LLC to Cainho Town Association, Inc. on _2022__.

3. Check one of the following: The DEED is:
   (a) _______ subject to the deed recording fee as a transfer for consideration paid or to be paid in money or money's worth
   (b) _______ subject to the deed recording fee as a transfer between a corporation, a partnership, or other entity and a stockholder, partner or owner of the entity, or is a transfer to a trust or as a distribution to a trust beneficiary.
   (c) _______ EXEMPT from the deed recording fee because #1 (See Information section): Value of land less than $100 (If exempt please skip item 4 and go to item 8 of this affidavit).

If exempt under exemption #4 as described in the Information section of this affidavit, did the agent and principal relationship exist at the time of the original sale and was the purpose of this relationship to purchase the realty?
Check Yes or No

4. Check one of the following if either item 3(a) or item 3(b) has been checked.
   (a) _______ The fee is computed on the consideration paid or to be paid in money or money’s worth in the amount of
   (b) _______ The fee is computed on the fair market value of the realty which is
   (c) _______ The fee is computed on the fair market value of the realty as established for property tax purposes which is

5. Check YES or NO to the following: A lien or encumbrance existed on the land, tenement, or realty before the transfer and remained on the land, tenement, or realty after the transfer. (This includes, pursuant to Code Section 12-59-140(5)(6), any lien or encumbrance on realty in possession of a forfeited land commission which may subsequently be waived or reduced after the transfer under a signed contract or agreement between the lien holder and the buyer existing before the transfer.) If "Yes," the amount of the outstanding balance of this lien or encumbrance is

6. The Deed recording fee is computed as follows:
   (a) $________ the amount listed in item 4 above.
   (b) 0 _______ the amount listed in item 5 above (If no amount is listed place a zero, h.r.)
   (c) $________ Subtract Line 6(b) from Line 6(a) and place the result.

7. The deed recording fee due is based on the amount listed on Line 6(c) above and the deed recording fee due is: $________

As required by Code Section 12-24-70. I state that I am a responsible person who was connected with this transaction as: Grantor.
9. I understand that a person required to furnish this affidavit who willfully furnishes a false or fraudulent affidavit is guilty of a misdemeanor and, upon conviction, must be fined not more than one thousand dollars or imprisoned not more than one year, or both.

SWORN to this 15th day of __________ 2022

[Signature]

Notary Public for South Carolina
Print Name of Notary
My Commission Expires __________

Grantee: Cainhoy Land & Timber, LLC.
By: D.I Development Company, Inc., its authorized agent

[Signature]

By: Mark R. Sloan, Jr., President

SEAL OF NOTARY

[Notary Seal]
STATE OF SOUTH CAROLINA  )  EXCLUSIVE STORM  
COUNTY OF BERKELEY  )  WATER DRAINAGE  
                             )  EASEMENTS  
                             )  CITY OF CHARLESTON  

This Agreement is made and entered into this ______ day of __________, 2022, by and between the City of Charleston, a Municipal Corporation organized and existing pursuant to the laws of the State of South Carolina (herein the "City"), and Cainhoy Land & Timber, LLC (herein the "Owner").

WHEREAS, THE CITY OF CHARLESTON, is desirous of maintaining storm water drainage ditches and appurtenances ("Storm Water System") across a portion of property identified by and designated as Berkeley County tax map number 262-00-40-008 and to accomplish this objective the City must obtain certain easements from the Owner permitting the maintenance of the Storm Water System through the referenced portion of the Owner’s property as hereinbefore described; and

WHEREAS, the undersigned Owner of the property is desirous of cooperating with the City and is minded to grant unto it certain permanent and exclusive storm water drainage easements in and to the property necessary herefor.

NOW, THEREFORE, in consideration of the foregoing and the benefits to be derived by the drainage improvements to the property, the Owner has granted, bargained, sold, released and conveyed by these present and does grant, bargain, sell, release and convey unto the City of Charleston all of those certain New City of Charleston Drainage Easements (or D.F.) as are described on the above referenced portion of the plat or map which is more fully shown on the plat or map:

"Prepared and executed by F. Elliott Quinn of Thomas & Hutton Engineering dated January 26, 2022 revised on __________, and recorded as Instrument No. ____________

in the ROD Office for Berkeley County, South Carolina (herein the "Plat").

A copy of said plat is attached heretofore as "Exhibit A" and incorporated herein.

SAID EXCLUSIVE STORM WATER DRAINAGE EASEMENTS having such size, shape, location and butting and bounding as shown on said Plat, reference to which is hereby made for a more complete description.

The City shall at all times have the right of ingress and egress to the land affected by the said Easements and Permanent Storm Water Drainage Easements for purposes of periodic inspection, maintenance, repair and replacement of the Storm Water System. These Exclusive and Permanent Storm Water Drainage Easements shall be commercial in nature and shall run with the land.

The City has no obligation to repair, replace or to compensate the Owner for trees, plants, grass, shrubs or other elements damaged or destroyed within the confines of these Exclusive and Permanent Storm Water Drainage Easements during the conduct of its allowable activities as described above.

TO HAVE AND TO HOLD, all and singular, the said before mentioned unto the said CITY OF CHARLESTON, its successors and assigns against Owner and its heirs and assigns and all persons whosoever lawfully claiming or to claim the same or any part thereof.
IN WITNESS WHEREOF, the parties have set the Hands and Seals the day and year above written.

WITNESSES:                        CITY OF CHARLESTON

Witness #1                             By: Thomas F. O'Brien
                                        Its: Public Service Director

Witness #2

STATE OF SOUTH CAROLINA  )
COUNTY OF CHARLESTON    )

ACKNOWLEDGEMENT

The foregoing instrument was acknowledged before me (the undersigned Notary) by
Thomas F. O'Brien, the Director of Public Service
of the City of Charleston, a Municipal Corporation organized and existing pursuant to the laws of the State of
South Carolina, on ____________.

Signature: ___________________________
Print Name of Notary: _______________________
Notary Public for South Carolina
My Commission Expires: _______________________

SEAL OF NOTARY

WITNESSES:

Witness #1

Witness #2

STATE OF SOUTH CAROLINA  )
COUNTY OF CHARLESTON    )

ACKNOWLEDGEMENT

The foregoing instrument was acknowledged before me (the undersigned notary) by Matthew R. Sloan, President of DI Development Company, Inc., the Authorized Agent
of Cainho Land & Timber, LLC, a Delaware Limited Liability Company, on behalf of the Owner on 2/15/2012.

Signature: ___________________________
Print Name of Notary: _______________________
Notary Public for ____________
My Commission Expires: _______________________

SEAL OF NOTARY

ESWDE8-2016 Page 2 of 2
STATE OF SOUTH CAROLINA  
)  
COUNTY OF CHARLESTON  
)

KNOW ALL MEN BY THESE PRESENTS, that HDP Twin Lakes LLC
("Grantor") in the state aforesaid, for and in consideration of the sum of
ONE AND 00 100 DOLLAR ($1.00), being the true consideration to it in hand paid at and before
the sealing of these presents by the CITY OF CHARLESTON, the receipt whereof is hereby
acknowledged, has granted, bargained, sold and released, and by these presents does grant,
bargain, sell and release unto the said CITY OF CHARLESTON ("Grantee"), its successors and
assigns, forever the following described property, which is granted, bargained, sold and released
for the use of the public forever.

All of the property underneath, above, and containing those certain streets, roads, drives,
and cul-de-sacs situate, lying and being in the City of Charleston County of Charleston
State of South Carolina, identified as (list street names)
Blue Bayou Blvd., Twin Lakes Avenue, Crystal Springs Rd

as shown and designated on a plat entitled "FINAL SUBDIVISION PLAT SHOWING TWIN
LAKES SI BDIVISION PHASE 2A (11.840 AC) AND THE EXTENSION OF BLUF
BAYOU BLVD IN PHASE 1 (0.172 AC) PROPERTY OF HDP TWIN LAKES LLC,
LOCATED ON JOHNS ISLAND, IN THE CITY OF CHARLESTON, CHARLESTON COUNTRY, S.C."

prepared by Parker Land Surveying LLC,
dated July 26, 2021, revised May 23, 2022, and recorded on
in Plat Book 672 at Page 652 in the Office for Charleston
County
Said property butting and bounding measuring and containing, and having such courses and
distances as are shown on said plat. Reference being had to the aforesaid plat for a full and
complete description, being all of the said dimensions, a little more or a little less

This being a portion of the property conveyed to Grantor heretof by deed of the
BMG II LLC, JTG III LLC, and MRG, LLC dated December 28, 2017 and recorded
December 9, 2017 in Book 0689 at Page 652 in the Office for
Charleston County, South Carolina

Grantee's Mailing Address:

City of Charleston
Department of Public Service
Engineering Division
2 George Street
Suite 2100
Charleston, South Carolina 29401

Portion of TMS No.
345-00-00-036
TOGETHER with all and singular, the rights, members, hereditaments and appurtenances to the said premises belonging, or in any wise incident or appertaining.

TO HAVE AND TO HOLD, all and singular, the said premises before mentioned unto the CITY OF CHARLESTON, its successors and assigns forever.

AND Grantor does hereby bind itself and its heirs, executors and administrators, to warrant and forever defend, all and singular, the said premises unto the said City of Charleston, heirs and assigns, against Grantor and its heirs, and all persons whomsoever lawfully claiming, or to claim the same or any part thereof.

WITNESS our Hand(s) and Seal(s) this 20 day of July, 2022.

SIGNED, SEALED AND DELIVERED IN THE PRESENCE OF:

Witness Number One

Printed Name

Witness Number Two

Printed Name

********************

STATE OF SOUTH CAROLINA

COUNTY OF CHARLESTON

ACKNOWLEDGEMENT

This foregoing instrument was acknowledged before me (the undersigned notary) by

James Cone, Agent

of HDP Twin Lakes LLC, a Delaware limited liability company, on behalf of the Grantor on the 20 day of July, 2022.

Signature of Notary:
Abby Hayes

Print Name of Notary:
Abby Hayes

Notary Public for South Carolina

My Commission Expires: October 19, 2025

SEAL OF NOTARY

Abby F. Hayes
Notary Public, State of South Carolina
My Commission expires Oct. 19, 2026
STATE OF SOUTH CAROLINA

COUNTY OF Charleston ) AFFIDAVIT FOR TAXABLE OR EXEMPT TRANSFERS

PERSONALLY appeared before me the undersigned, who being duly sworn, deposes and says

1. I have read the information on this affidavit and I understand such information.

2. The property was transferred by HDP Twin Lakes, LLC to the City of Charleston on

3. Check one of the following: The deed is

   (A) subject to the deed recording fee as a transfer for consideration paid or to be paid in money or money's worth.
   (B) subject to the deed recording fee as a transfer between a corporation, a partnership, or other entity and a stockholder, partner, or owner of the entity, or is a transfer to a trust or as distribution to a trust beneficiary
   (C) exempt from the deed recording fee because (See Information section of affidavit): #2 (explanation required)
      (If exempt, please skip items 4-7, and go to item 8 of this affidavit)

If exempt under exemption #14 as described in the Information section of this affidavit, did the agent and principal relationship exist at the time of the original sale and was the purpose of this relationship to purchase the realty?
Check Yes or No

4. Check one of the following if either item 3(a) or item 3(b) above has been checked (See Information section of this affidavit):

   (A) The fee is computed on the consideration paid or to be paid in money or money’s worth in the amount of
   (B) The fee is computed on the fair market value of the realty which is
   (C) The fee is computed on the fair market value of the realty as established for property tax purposes which is

5. Check YES or NO to the following: A lien or encumbrance existed on the land, tenement, or realty before the transfer and remained on the land, tenement, or realty after the transfer. If "YES," the amount of the outstanding balance of this lien or encumbrance is

6. The deed recording fee is computed as follows.

   (A) Place the amount listed in item 4 above here:
   (B) Place the amount listed in item 5 above here:
      (If no amount is listed, place zero here.)
   (C) Subtract Line 6(b) from Line 6(a) and place the result here:

A172 2013
The deed recording fee is based on the amount listed on Line 6(c) above and the deed recording fee due is __________.

As required by Code Section '12-24-70, I state that I am a responsible person who was connected with the transaction as Grantor.

I understand that a person required to furnish this affidavit who willfully furnishes a false or fraudulent affidavit is guilty of a misdemeanor and, upon conviction, must be fined not more than one thousand dollars or imprisoned not more than one year, or both.

Responsible Person Connected with the Transaction

HDP Twin Lakes, LLC - James Cote, Agent
Print or Type Name Here

Sworn this 20 day of July 2022
Notary Public for South Carolina
My Commission Expires: December 20

Abby F. Hayes
Notary Public, State of South Carolina
My Commission expires Oct. 19, 2026

AT&T 2013
STATE OF SOUTH CAROLINA  )
COUNTY OF CHARLESTON   ) EXCLUSIVE STORM WATER
) DRAINAGE EASEMENTS
) CITY OF CHARLESTON

This Agreement is made and entered into on the 20th day of July, 2022, by and between the CITY OF CHARLESTON, a South Carolina municipality (herein the "City"), and HDP Twin Lakes, LLC (herein the "Owner").

WHEREAS, the City is desirous of maintaining storm water drainage pipes and appurtenances ("Storm Water System") across a portion of property identified by and designated as Charleston County TMS No. 345-00-00-036 and, to accomplish this objective, the City must obtain certain easements from the Owner permitting the maintenance of the Storm Water System through the referenced portion of the Owner's property, as hereinafter described; and

WHEREAS, the undersigned Owner of the property is desirous of cooperating with the City and is minded to grant unto the City certain permanent and exclusive storm water drainage easements in and to the property necessary therefor.

NOW, THEREFORE, in consideration of the foregoing and the benefits to be derived by the drainage improvements to the property, the Owner has granted, bargained, sold, released and conveyed by these present and does grant, bargain, sell, release and convey unto the City of Charleston all of those certain drainage easements more particularly described on Exhibit A, attached hereto and incorporated herein by reference.

The City shall at all times have the right of ingress and egress to the land affected by the said Exclusive and Permanent Storm Water Drainage Easements for purposes of periodic inspection, maintenance, repair and replacement of the Storm Water System. These Exclusive and Permanent Storm Water Drainage Easements shall be commercial in nature and shall run with the land.

The City has no obligation to repair, replace or to compensate the Owner for trees, plants, grass, shrubs or other elements damaged or destroyed within the confines of these Exclusive and Permanent Storm Water Drainage Easements during the conduct of the City's allowable activities as described above.

TO HAVE AND TO HOLD, all and singular, the said before mentioned unto the said CITY OF CHARLESTON, its successors and assigns, against Owner and its heirs and assigns, and all persons whomsoever lawfully claiming or to claim the same or any part thereof.

[REMAINDER OF PAGE INTENTIONALLY BLANK]
IN WITNESS WHEREOF, the City of Charleston has set its Hand and Seal the day and year first above written.

WITNESSES: CITY OF CHARLESTON

Witness #1
Print Name: ____________________________

By: Matthew Fountain
Its: Director of Stormwater Management

Witness #2
Print Name: ____________________________

STATE OF SOUTH CAROLINA )
COUNTY OF CHARLESTON )

ACKNOWLEDGEMENT

The foregoing instrument was acknowledged before me (the undersigned notary) by Matthew Fountain, the Director of Stormwater Management of the City of Charleston, a South Carolina municipality, on this day of July, 2022, on behalf of the said municipality.

Signature: ____________________________
Print Name of Notary: ____________________________
Notary Public for South Carolina
My Commission Expires: ____________________________ (SEAL)

{REMAINDER OF PAGE INTENTIONALLY BLANK}
IN WITNESS WHEREOF, has set its Hand and Seal the day and year first above written.

IN WITNESS WHEREOF, the Owner has set its hand and seal the day and year first above-written.

WITNESSES:
Witness #1
Print Name: Michael C. Gore
Witness #2
Print Name: Kurt Landesleger

OWNER - HPD IronWorks, LLC
By: James Cone
Its: Agent

STATE OF South Carolina
COUNTY OF Charleston

ACKNOWLEDGEMENT

The foregoing instrument was acknowledged before me this 20th day of July 2022 by James Cone, Agent (name and title).

Signature: Laura Cargill
Print Name of Notary: Laura Cargill
Notary Public for South Carolina
My Commission Expires: May 11, 2020

(SEAL)

Page 3 of 4
EXHIBIT A

All those certain drainage easements of various widths being shown and labeled "COC DE," or otherwise designated as City of Charleston drainage easements, on that certain plat entitled "FINAL SUBDIVISION PLAT SHOWING TWIN LAKES SUBDIVISION, PHASE 2A (11.840 AC.) AND THE EXTENSION OF BLUE BAYOU BLVD. IN PHASE 1 (0.172 AC) PROPERTY OF HDP TWIN LAKES LLC, LOCATED ON JOHN'S ISLAND, IN THE CITY OF CHARLESTON, CHARLESTON COUNTY, SC" prepared by Parker Land Surveying, LLC dated July 26, 2021, revised on May 23, 2022, and recorded on _____ in Plat Book ____ at Page ____ in the Register of Deeds Office for Charleston County, South Carolina, said drainage easements butting and bounding, measuring and containing, and having such courses and distances as are shown on said plat, reference to which is craved for a more complete and accurate legal description.

SAID EXCLUSIVE STORMWATER DRAINAGE EASEMENT having such the size, shape, dimensions, buttings and boudings as will by reference to said plat more fully and at-large appear.

[END OF DOCUMENT]
From: Copeland, Julia
Sent: Friday, July 29, 2022 2:49 PM
To: O'Brien, Tom F.
Cc: Frohlich, Matthew; Humphreys III, David C.; Michael Maher
Subject: Westedge Phase 1

Tom,

We will need to add Westedge Phase 1 dedication back on PW agenda for clarification and approval. The prior approval, on September 13, 2021, came under the assumption that a formal easement with Mike Bennett was in place. We now need to educate the Committee and council that this easement is no longer an option and our dedication will now be proposed with a prescriptive easement instead. Please let me know if you have any questions. We'll get exhibits to you as well. Julia

Acceptance and Dedication of Streets

1. **Westedge, Phase 1 (TMS Nos. 460-00-00-017; 460-00-00-021; 460-00-00-034).** Authorization for the acceptance and dedication of those certain rights-of-way designated as Westedge Street, Horizon Street, and District Drive and the City of Charleston drainage easements shown on the final subdivision plat for the development. This authorization is subject to the City's approval of the final dedication package for the development: a. Title to Real Estate (460-00-00-021); b. Exclusive Stormwater Drainage Easements (460-00-00-017) c. Exclusive Stormwater Drainage Easements (460-00-00-034) d. Plat.

Julia P. Copeland | Deputy Corporation Counsel
City of Charleston | Legal Department
50 Broad Street | Charleston, SC 29401
T: 843-724-3730 | F: 843-724-3706 | copelandj@charleston-sc.gov | www.charleston-sc.gov

City of Charleston
August 17, 2022

Mr. Michael Black, PE
District Maintenance Engineer
SCDOT District 6
6355 Fain Street
North Charleston, SC 29405

Subject: Maintenance of 22 LF of granite curb and 58 LF of concrete sidewalk on Ashley Avenue (S-10-103) in conjunction with the project at 14 Cannon Street.

Dear Mr. Black:

This letter concerns the proposed 22 LF of granite curb and 58 LF of concrete sidewalk within the SCDOT right-of-way on Ashley Avenue (S-10-103) shown on the attached drawings in conjunction with the project at 14 Cannon Street.

The City Council of Charleston, at its meeting held August 16, 2022, agreed to accept maintenance responsibility for these items. The work will be constructed under a valid SCDOT Encroachment Permit. The City of Charleston agrees to maintain these improvements in compliance with current ADA and SCDOT standards. (ADA Standards for Transportation Facilities, SC Highway Design Manual, SCDOT Standard Drawings, AASHTO Guide for Development of Pedestrian Facilities).

Should there be any questions please contact me at 843-724-3777 or obrien@charleston-sc.gov.

Sincerely,

[Signature]
Thomas F. O'Brien
Director of Public Service

CC: Thomas Purcell, Kimley Horn
Brian Pokrant, GIS Analyst
MEMORANDUM

To:       Jennifer Cook, Assistant Clerk of Council
From:     Matthew Fountain, Director of Stormwater Management
Subject:  SCOR Revolving Loan Fund Application Submission – Barberry Woods Project
Date:     16 August 2022

The purpose of this memorandum is to request permission for the City of Charleston’s submission of the Revolving Loan Fund application to the South Carolina Office of Resilience who is administratively managing this program. The funds originated from the State. The application deadline is rolling, however, it is anticipated the City will submit their application by September of 2022.

The City is requesting $3,000,000 in funding. If awarded, the loan would provide funding for the construction phase of the Barberry Woods Drainage Improvement Project on Johns Island that is expected to begin in 2024 and completed by 2026. The project will restore a creek and wetlands in an almost 25-acre project area to mitigate flooding and provide natural storage during rainfall events. This wetland creek restoration will be transformed into a passive ecological park to be easily accessed by the public free-of-charge.

Regarding the loan details, the interest rate will be secured at about 1% with a 10-year payback period. The loan funding can be used as a match source for future federal grant opportunities. Another key feature of the loan program is up to 25% of the loan can be converted into a grant. Based on the loan request amount of $3,000,000, the City may be eligible to receive $750,000 in grant funding if the project meets certain criteria. Loan applications will be approved on a rolling basis by the State Fiscal Accountability Authority.

If awarded, the Project will be managed by the Stormwater Management Department. Please do not hesitate to contact me should you have any questions at fountainm@charleston-sc.gov or (843) 724-3754.

2 GEORGE STREET, CHARLESTON, SOUTH CAROLINA 29401   (843) 724-3754
Revolveing Loan Fund Program

The SC Office of Resilience (SCOR) Revolving Loan Fund Program offers low-interest loans to eligible entities anywhere in South Carolina to carry out buyout programs for properties that have experienced repetitive flood loss or to complete floodplain restoration projects.

**ELIGIBLE PROJECTS**

**BUYOUTS** of properties experiencing repetitive flood loss

**FLOODPLAIN RESTORATION** on lands already bought out using other funding sources

Priority will be given to projects which:
- Buyout blocks or groups of homes (avoiding the “checkerboard” effect)
- Buyout single-family primary residences and multi-family residences
- Use of Revolving Loan funds to leverage additional funding sources
- Serve low to moderate income households earning less than 125% of the median household income in the eligible fund recipient’s area
- Implement activities consistent with the goals and priorities of the Statewide Strategic Resilience and Risk Reduction Plan

**ELIGIBLE APPLICANTS**

Any state agency, commission, or local government in South Carolina, or land trusts operating in South Carolina and accredited by the Land Trust Accreditation Commission.

**LOAN DETAILS**

SCOR Revolving Loan Funds will have a low interest rate no higher than 40% of the market interest rate defined by the ten-year United States Treasury Yield Curve (TYC).

Implementing beneficial flood mitigation practices can earn loan awardees an additional financial incentive. Awardees may qualify to have up to 25% of their loan converted into a grant not requiring repayment. The amount is determined at the time the loan is closed.

No loan or grants will be provided for activities that involve homes built after July 1, 2020, and/or the use of eminent domain.

**HOW TO APPLY**

For more information on the Revolving Loan Fund Program or to request an application packet, please email your request to don.simmons@scor.sc.gov or call 803-822-9578. You can also visit our website at scor.sc.gov.
SC Resilience Revolving Loan Fund (RLF)  
Project Application Cover Page & Framework

**Applicant Name:**  
**Contact Information:**  

**Project Name:**  
**Planned Start Date:**

**Project Location:**  
**Loan Amount:**  

**Eligibility Category:**  
**Requested Terms:**

**Detailed Project Description & Explanation of How Project Fits RRF Priorities:** (Applicants Should Review Project Evaluation Tool to Ensure All Information Required for Their Project Type is Included in the Application, Additional Sheets & Documents May Be Attached as Needed)

**Explain What Means Applicant Will Used to Repay the Loan:** (Additional Sheets & Documentation May Be Attached as Needed)

---

**Project Budget**

<table>
<thead>
<tr>
<th>Provide Funding Sources Below</th>
<th>Local/State</th>
<th>Federal</th>
<th>SCRRF Loan</th>
<th>Project Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Source #1</td>
<td>$</td>
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<tr>
<td>Source #2</td>
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<td>Source #3</td>
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<td>Source #4</td>
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<td>Source #5</td>
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<tr>
<td><strong>Total Funding from All Sources</strong></td>
<td>$</td>
<td>$</td>
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**Applicant Certification:** By signing below, I certify the information contained in this application is true to the best of my knowledge. I understand that if the requested loan is approved, a written resolution approved by the applicant’s governing body (Board, City Council, Commission, County Council, Etc.) that certifies the information contained in this application is true, and agrees to the loan, its terms and conditions must be submitted prior to the loan closing.

**Applicant’s Signatory & Title**  
**Date**

**Signatory’s Printed Name**
# SC Resilience Revolving Loan Fund (RLF) Project Application Evaluation Tool

<table>
<thead>
<tr>
<th>Scoring Method</th>
<th>Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pass/Fail</td>
<td>A. Applicants Must Be One of Three Types of Eligible Loan Recipients:</td>
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<tr>
<td></td>
<td>(One Required)</td>
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<tr>
<td></td>
<td>B. Projects Must Conduct One of Four Types of Eligible Loan Activities:</td>
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<td></td>
<td>(One Required)</td>
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<tr>
<td></td>
<td>C. Projects Must Include All of These Provisions in Their Application</td>
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<td></td>
<td>if Applicable: (All Required)</td>
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<td></td>
<td>D. Buyout Projects of Repetitive Loss Properties (With or Without Land for</td>
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<tr>
<td></td>
<td>Floodplain Restoration) Must Include These Provisions: (All Required)</td>
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<tr>
<td></td>
<td>E. Other Floodplain Restoration Projects (On Land to Be Purchased or On</td>
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<tr>
<td></td>
<td>Land Already Purchased) Must Include These Provisions: (All Required)</td>
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<table>
<thead>
<tr>
<th>Scoring Method</th>
<th>Standards</th>
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</thead>
<tbody>
<tr>
<td>Pass/Fail</td>
<td>1. State of SC or a State Agency, Commission, or Other Instrumentality.</td>
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<td></td>
<td>2. Local Government of the State of SC or Agency, Commission, or Other</td>
</tr>
<tr>
<td></td>
<td>Instrumentality of the Local Government.</td>
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<tr>
<td></td>
<td>3. SC Land Trust Accredited by the Land Trust Accreditation Commission.</td>
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<td></td>
<td>5. Buyout Project of Repetitive Loss Properties with Land Intended for</td>
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<td></td>
<td>Floodplain Restoration.</td>
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<td>6. Other Floodplain Restoration Activities with Purchase of Land for</td>
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<td></td>
<td>Floodplain Restoration.</td>
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<td>7. Other Floodplain Restoration Activities on Land Purchased Using One or</td>
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<td></td>
<td>More Other Funding Sources.</td>
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<td></td>
<td>8. An Economic Assessment Detailing the Project’s Cost &amp; Benefits.</td>
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<td>9. A Beneficial Flood Mitigation Practices Section Identifying All Planned</td>
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<td></td>
<td>Beneficial Flood Mitigation Practices.</td>
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<td></td>
<td>10. An Open Space Plan &amp; Timeline Stipulating How All Acquired Properties</td>
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<td></td>
<td>Will Be Returned to Open Space No Later Than Six Months Following</td>
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<td></td>
<td>Completion of Their Acquisition.</td>
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<td></td>
<td>11. A Section Confirming the Project Will Prohibit All Future Development</td>
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<tr>
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<td>on Acquired Properties in Perpetuity by Use of Easement or Restrictive</td>
</tr>
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<td></td>
<td>Covenant.</td>
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<td>12. A Section Affirming the Project Will Restrict Buyouts Such That No</td>
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<td></td>
<td>More Than $500,000 Will Be Spent on Any Single Housing Unit.</td>
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<td>13. A Section Asserting the Project Will Not Include Activities for Homes</td>
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<td>Built After July 1 of 2020.</td>
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<td>14. A Section Confirming the Project Will Not Use Eminent Domain.</td>
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<td>15. A Section Affirming That Any Additional External Funder Criteria Is</td>
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<td>Met.</td>
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<td></td>
<td>16. One or More of These Provisions Are Not Applicable (List Numbers):</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Scoring Method</th>
<th>Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pass/Fail</td>
<td>1. A Section Identifying the Specific Properties to Be Purchased.</td>
</tr>
<tr>
<td></td>
<td>2. A Section Demonstrating How Each of the Parcels Qualify as Repetitive</td>
</tr>
<tr>
<td></td>
<td>Loss Properties.</td>
</tr>
<tr>
<td></td>
<td>3. Project Is Not Classified as a Buyout Project of Repetitive Loss or a</td>
</tr>
<tr>
<td></td>
<td>Buyout Project of Repetitive Loss with Land for Floodplain Restoration.</td>
</tr>
<tr>
<td></td>
<td>5. A Plan &amp; Timeline for Holding an Easement or Restrictive Covenant on</td>
</tr>
<tr>
<td></td>
<td>Project Land In Perpetuity.</td>
</tr>
<tr>
<td></td>
<td>6. The Application is Not Classified as Other Floodplain Restoration</td>
</tr>
<tr>
<td></td>
<td>Project.</td>
</tr>
</tbody>
</table>

Project Pass/Fail Standards Results:  
- Passed All Standards
- Failed One or More Standards
### Project Priority Standards Results:

- Matched: [ ] One or More, or [ ] None
- Points: [ ]
- Ranking: [ ]

### Total Project Evaluation Results:

- [ ] Funding Approved
- [ ] Funding Rejected
- Reason:

### Project Incentive Standards Results:

- [ ]

### Project Qualifies for Available Incentives:

- [ ]

### Project Awarded Incentive:

- [ ] Yes
- [ ] No
- Ranking:

### Incentive Details:

- Amount:
- Percentage:

### Revolving Loan Fund Manager Signature:

- Date:

### Chief Resilience Officer or Designee Signature:

- Date:

### Project Notes (Significant Innovations, Lessons Learned, Input for Future Quality Improvements):

---

1. **Project buys out blocks or groups of homes (Obligated to be 85% or more of Annual Buyout Project Funding).**

2. **Project buys out individual homes (Obligated to be 15% or less of Annual Buyout Project Funding).**

3. **Project buys out single-family primary or multifamily residences.**

4. **Project uses the RLF loan to leverage funding from additional sources.**

5. **Project serves low to moderate income households (Less than 125% of Area Median Income).**

6. **Project implements activities consistent with the statewide Resilience Plan’s Goals & Priorities.**

---

1. **Project includes activities to ensure residents relocate outside the floodplain.**

2. **Project provides aid for residents relocating outside the floodplain to help them stay in their current tax base.**

3. **Project provides aid for residents relocating outside the floodplain to help them move into a designated Opportunity Zone.**

4. **Project includes restoration activities after properties are converted to Open Space to reestablish full floodplain water storing capabilities.**

5. **Project includes one or more buyouts of an area larger than ten acres.**
SC Resilience Revolving Loan Fund (RLF)
Eligibility, Priority and Loan Incentive Standards
For Applicants and Projects

I. Applicant Eligibility Standards
   1. Applicants Must Be One of the Following Types of Entities to Be Eligible for Funding:
      A. The State of SC or an Agency, Commission, or Other Instrumentality of the State,
      B. A Local Government of the State of SC or an Agency, Commission, or Other Instrumentality of that
         Local Government, or
      C. A SC Land Trust Nonprofit Accredited by the Land Trust Accreditation Commission.

II. Project Eligibility Standards
   1. Eligible Applicants May Only Apply for Funding for Projects Conducting One or More of the
      Following Eligible Loan Activities:
      A. Buyouts of Repetitive Loss Properties.
      B. Buyouts of Repetitive Loss Properties with Land Intended for Floodplain Restoration.
      C. Other Floodplain Restoration Activities with Purchase of Land Intended for Floodplain Restoration.
      D. Other Floodplain Restoration Activities on Land Purchased Using One or More Other Funding Sources.
   2. All Funded Projects Applications Must Include All of the Following Provisions, if Applicable:
      A. An Economic Assessment Detailing the Project's Cost and Benefits.
      B. A Beneficial Flood Mitigation Practices Section Identifying All Planned Beneficial Flood Mitigation
         Practices.
      C. An Open Space Plan and Timeline Stipulating How All Acquired Properties Will Be Returned to
         Open Space No Later Than Six Months Following Completion of Their Acquisition.
      D. A Section Confirming the Project will Prohibit All Future Development on Acquired Properties in
         Perpetuity by Use of Easement or Restrictive Covenant.
      E. A Section Affirming the Project Will Restrict Buyouts Such That No More Than $500,000 May Be
         Spent on Any Single Housing Unit.
      F. A Section Asserting the Project Will Not Include Activities for Homes Built After July 1 of 2020.
      G. A Section Confirming the Project Will Not Use Eminent Domain.
      H. Opportunities May Occur in the Future for the Resilience Revolving Fund To Make Use of Funding
         from One or More External Funding Partners in Some Application Cycles to Increase Its Ability to
         Assist More Projects. Should this Special Circumstance Occur, All Project Applicants Awarded in
         That Application Cycle Will Be Notified and Informed if the Participating External Funding Partners
         Have Any Additional Funding Criteria. When This Occurs, Project Applications Must Include a
         Section Demonstrating the Additional Funding Criteria Will Be Met.
   3. All Funded Project Applications for Buyouts of Repetitive Loss Properties (Whether, With, or
      Without Land Intended for Floodplain Restoration) Must Also Include the Following Provisions:
      A. A Section Identifying the Specific Properties to Be Purchased.
      B. A Section Demonstrating How Each of the Parcels Qualify as Repetitive Loss Properties.
   4. All Other Funded Floodplain Restoration Project Applications (Whether on Land to Be
      Purchased or on Land Already Purchased) Must Also Include the Following Provisions:
      A. A Plan & Timeline for Conducting Floodplain Restoration.
      B. A Plan & Timeline for Holding an Easement or Restrictive Covenant on Project Land in Perpetuity.

III. Project Priority Standards
   1. All Funded Project Applications Must Meet One of the Following Priority Standards:
      A. It Buys Out Single-Family Primary or Multifamily Residences.
B. It Buys Out Blocks or Groups of Homes (Such Buyouts are Obligated to Make Up 85% of Annual Buyout Funding).

C. It Buys Out Individual Homes (Such Buyouts are Obligated to Make Up No More Than 15% of Annual Buyout Funding).

D. It Uses RLF funding to Leverage Additional Funding from One or More Other Sources.

E. It Serves Low to Moderate Income Households (Less Than 125% of Area Median Income).

F. It Implements Activities Consistent with the Statewide Resilience Plan’s Goals and Priorities.

2. If the Number of Eligible Project Applications Exceeds Funding Available for Loans in a Given Application Cycle, the Following Process Will Determine What Projects are Offered Loans:

A. Each Project Application Will Be Given a Priority Score by Awarding 5 Points for Each Priority Standard It Meets and Then Tallying Those Points.

B. Project Applications Will Then Be Ranked Highest to Lowest by Their Total Priority Scores.

C. Loans Will Be Offered to the Project Application with the Highest Priority Score, then to the Next Highest, and so on until All Available Loan Funding for the Current Application Cycle is Exhausted.

IV. Loan Incentive Standards & Awards

1. If Funding is Available, One or More RLF Loans May Include a Loan Incentive, Which Allows an Applicant Awardee to Convert a Portion of Their Loan (from 5% to 25%) into a Grant, Which Does Not Need to be Repaid. To Qualify for a Loan Incentive, a Project Application Must Meet One of the Following Loan Incentive Standards:

A. It Includes Activities for Residents of Properties Bought Out to Ensure They Relocate Outside the Floodplain.

B. It Provides Residents of Properties Bought Out Who are Relocating Outside the Floodplain Assistance to Help Them to Remain in Their Current Tax Base.

C. It Provides Residents of Properties Bought Out Who are Relocating Outside the Floodplain Assistance to Help Them Move into a Designated Opportunity Zone.

D. It Includes Restoration Activities after Properties are Converted to Open Space to Reestablish the Full Floodplain Water Storing Capabilities of the Open Space.

E. It Includes One or More Buyouts of an Area Larger Than Ten Acres.

2. If the Number of Eligible Project Applications, Qualifying for a Loan Incentive Exceeds Funding Available for Loan Incentives in a Given Application Cycle, the Following Process Will Determine What Projects are Awarded a Loan Incentive:

A. Each Project Application Will Be Given a Loan Incentive Score by Awarding 5 Points for Each Loan Incentive Standard It Meets and Then Tallying Those Points.

B. Project Applications Will Then Be Ranked Highest to Lowest by Their Total Loan Incentive Scores.

C. Finally, Loan Incentives Will Be Awarded to the Project Application with the Highest Loan Incentive Score, then to the Next Highest, and so on until All Available Loan Incentive Funding for the Current Application Cycle is Exhausted.
**Notice of Federal Funding**

FY2022 NOAA's Transformational Habitat Restoration and Coastal Resilience Grants Under the IIJA

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NOTICE OF FUNDING OPPORTUNITY

EXECUTIVE SUMMARY

Federal Agency Name(s): National Marine Fisheries Service (NMFS), National Oceanic and Atmospheric Administration (NOAA), Department of Commerce

Funding Opportunity Title: FY2022 NOAA’s Transformational Habitat Restoration and Coastal Resilience Grants Under the IJIA

Announcement Type: Initial

Funding Opportunity Number: NOAA-NMFS-HCPO-2022-2007195

Federal Assistance Listings Number: 11.463, Habitat Conservation

Dates: The application deadline is September 6, 2022 at 11:59 PM Eastern time. Applications must be received by www.Grants.gov

Funding Opportunity Description: The principal objective of this solicitation is to support transformational projects that restore marine, estuarine, coastal, or Great Lakes ecosystems, using approaches that enhance community and ecosystem resilience to climate hazards. Funding will prioritize habitat restoration actions that: demonstrate significant impacts; rebuild productive and sustainable fisheries; contribute to the recovery and conservation of threatened and endangered species; promote climate-resilient ecosystems, especially in tribal or underserved communities; and improve economic vitality, including local employment. This solicitation is authorized under the Infrastructure Investment and Jobs Act (Public Law 117-58), 135 STAT. 1356 (Nov. 15, 2021).

This funding opportunity seeks projects that enhance coastal resilience. Coastal areas support the nation’s largest and often fastest-growing population centers, as well as key natural assets. Strengthening coastal resilience means preparing and adapting coastal communities to mitigate the impacts of, and more quickly recover after, extreme events such as hurricanes, coastal storms, flooding, and sea level rise. Habitat restoration and natural and nature-based infrastructure are critical to doing so, by protecting lives and property; sustaining commercial, recreational, and subsistence fishing; recovering threatened and endangered species; and maintaining and fostering vibrant coastal economies. This funding opportunity, along with other opportunities for the National Oceans and Security Fund, Coastal Zone Management, National Estuarine Research Reserves, and Coastal Habitat Restoration and Resilience in Underserved Communities, aims to fund projects that support the overarching goal of enhancing coastal resilience. This funding opportunity focuses on high-value, transformative projects that advance resilience and support habitat restoration.
Applicants should address the following set of program priorities: 1) sustaining productive fisheries and strengthening ecosystem resilience; 2) fostering regionally important habitat restoration; 3) enhancing community resilience to climate hazards and providing other co-benefits; and 4) providing benefit to underserved communities, including through partnerships with tribes. This solicitation will fund projects that demonstrate high priority and transformative potential within the geographic region where restoration actions are proposed.

Projects that are most responsive to the program priorities and are more transformative (i.e., have higher positive impact) will be more competitive. Proposals may include the following types of project phases: planning and assessments, feasibility studies, engineering design and permitting, on-the-ground implementation, pre- and/or post-implementation monitoring; or any combination of phases thereof. Proposals may also include capacity-building and stakeholder engagement to support the proposed restoration. Applicants proposing pre-implementation activities should demonstrate how these efforts will support or catalyze subsequent on-the-ground restoration. Proposals that include on-the-ground implementation will be given priority compared to those that include only pre-implementation activities. Proposals that include multiple sites should demonstrate how projects collectively contribute to the priorities within the same geographic area or watershed, and applicants should demonstrate the capacity to manage concurrent habitat restoration projects over multiple years.

NOAA is committed to the goals of advancing equity and support for underserved communities. NOAA encourages applicants to include and demonstrate principles of diversity, equity, inclusion, and accessibility through proactive, meaningful, and equitable community engagement in the identification, design, and implementation of proposed projects. NOAA also encourages applicants to propose projects with benefits to tribal or underserved communities. Applicants should identify if the project is located within tribal or underserved communities and whether a portion of the resilience benefits from the proposed work will flow to tribal or underserved communities.

Proposals selected for funding through this solicitation will be funded through cooperative agreements. NOAA encourages a period of performance of up to three years, with the potential for up to five years, if necessary. Awards may be structured as multi-year awards where the funding for the second and/or third year should be estimated in the proposal, with final amounts determined in future years, pending future federal appropriations and progress towards project milestones.

NOAA anticipates typical federal funding for awards will range from $3 million to $8 million over three years. NOAA will not accept proposals with a federal funding request of less than $1
million or more than $15 million total for the entire award. Funds will be administered by the NOAA Restoration Center.
I. Funding Opportunity Description

A. Program Objective

The principal objective of this solicitation is to support transformational projects that restore marine, estuarine, coastal, or Great Lakes ecosystems, using approaches that enhance community and ecosystem resilience to climate hazards. Funding will prioritize habitat restoration actions that: demonstrate significant impacts; rebuild productive and sustainable fisheries; contribute to the recovery and conservation of threatened and endangered species; promote resilient ecosystems, especially in tribal or underserved communities; and improve economic vitality, including local employment. This solicitation is authorized under the Infrastructure Investment and Jobs Act (Public Law 117-58), 135 STAT. 1356 (Nov. 15, 2021).

Extreme weather events and climate hazards can have significant impacts on coastal ecosystems and human communities. Strengthening ecosystem resilience in a changing climate is critical to promoting the recovery of threatened and endangered species, as well as enhancing the sustainability of commercial and recreational fisheries. Additionally, strengthening the resilience of coastal communities can reduce vulnerability and alleviate negative effects from extreme weather and climate hazards, such as flooding and coastal storms.

This funding opportunity will invest in transformational projects that have the greatest potential to provide holistic benefits, through habitat-based approaches that strengthen both ecosystem and community resilience. Example projects that are transformational include, but are not limited to: large projects; innovative projects; projects that connect other restoration or resilience work; and projects that provide significant benefits for ecosystems or community resilience. Projects that are most responsive to the program priorities and are more transformative will be more competitive, by providing important and lasting changes that make a difference for coastal communities and ecosystems.

NOAA also desires cost sharing to encourage partnerships among government, community, industry, and academia. Though not required, applicants are strongly encouraged to combine NOAA federal funding with formal matching contributions or informal leverage from a broad range of sources in the public and private sectors. Such cost sharing is an element considered in the evaluation criteria.

The following definitions of key terms apply to this funding opportunity
Ecosystem resilience. This term refers to the capacity of an ecosystem to absorb, withstand, respond to, and recover rapidly from disturbances linked to extreme weather events and climate hazards. Resilient ecosystems can resist damage from extreme weather events or climate hazards, while retaining or having the ability to recover their inherent structure and ecological function.

Community resilience. This term refers to the capacity of a human community to absorb, withstand, respond to, and recover rapidly from disturbances linked to extreme weather events and climate hazards. Community resilience can also include the ability to plan and prepare for adverse effects of extreme weather events or climate hazards, and the capacity to adapt to changing environmental conditions.

Underserved communities. This term refers to populations sharing a particular characteristic, as well as geographic communities, that have been systematically denied a full opportunity to participate in aspects of economic, social, and civic life. Underserved communities are defined in Executive Order 13985: https://www.federalregister.gov/documents/2021/01/25/2021-01753/advancing-racial-equity-and-support-for-underserved-communities-through-the-federal-government

Habitat restoration. This term applies to techniques or strategies that aim to directly restore ecosystems, for the purpose of supporting the recovery or sustainability of the target species or fisheries and/or improving community and ecosystem resilience. A variety of habitat types are eligible within this funding opportunity, ranging from marine, estuarine, and coastal ecosystems at the land-sea interface (including coastal rivers), to the freshwater coastal ecosystems of the Great Lakes. Example habitats include, but are not limited to: coral reefs; oyster reefs; coastal wetlands and marshes; freshwater or tidal rivers and streams; shoreline and near-shore ecosystems; seagrass beds; kelp forests and rocky reefs; and mangroves. Applicants with proposals focusing exclusively on fish passage techniques that remove in-stream barriers, such as dams or culverts, are encouraged to reach out to agency contacts (see Section VII) to discuss additional funding opportunities that could be applicable to the proposed work.

Co-benefits of restoration. This term refers to the multiple benefits of restoration that extend beyond biologically relevant benefits to target species. This includes contributions to ecosystem and community resilience, increased business opportunities, public community revitalization, recreational opportunities, reduced safety hazards, and or reduced maintenance costs. Co-benefits are often measured through socioeconomic methods.
Nature-based solutions. This term refers to actions that protect, conserve, restore, sustainably use, and manage natural or modified terrestrial, freshwater, coastal, and marine ecosystems. These solutions effectively and adaptively address social, economic, and environmental challenges, while simultaneously providing benefits for human well-being, ecosystem services, resilience, and biodiversity.

B. Program Priorities

Successful proposals will be those that meet the evaluation criteria (Section V.A) most strongly, including those criteria related to the program priorities described here. Applicants should address the following set of program priorities: 1) sustaining productive fisheries and strengthening ecosystem resilience; 2) fostering regionally important habitat restoration; 3) enhancing community resilience to climate hazards and providing other co-benefits; and 4) providing benefit to underserved communities, including through partnerships with tribes. For more information on the program priorities outlined below, applicants should visit: https://www.fisheries.noaa.gov/national/funding-and-financial-services/priorities-habitat-restoration-grants.

1) Sustaining Productive Fisheries and Strengthening Ecosystem Resilience.

Applicants should describe how the proposed habitat restoration actions align with relevant plans to recover and/or manage the target species or fisheries. Proposals should also address how restoration will strengthen resilience within the target habitat and the surrounding ecosystem. Potential benefits for fisheries habitat will be evaluated based on how the proposed restoration actions will:

(a) Contribute to the recovery of threatened and endangered species listed under the Endangered Species Act (ESA) (hereafter, Listed Species);
(b) Sustain or help rebuild fish stocks managed under the Magnuson-Stevens Fishery Conservation and Management Act (hereafter, Managed Species), which includes benefits to Essential Fish Habitat (EFH) for recreationally and commercially important species and their prey;
(c) Enhance the sustainability of saltwater recreational fisheries by the restoration of habitat that supports the National Saltwater Recreational Fisheries Policy and Implementation Plans; and/or
(d) Improve habitat to support native fish species of the Great Lakes.

2) Fostering Regionally Important Habitat Restoration.

This solicitation will prioritize restoration actions that demonstrate high priority and
transformative potential within a defined geographic region. Applicants should describe the context of the proposed work within the landscape, watershed, or other geographically defined boundary. Descriptions should explain how the work may complement other current or proposed restoration efforts, including projects that will help to build climate resilience through other funding opportunities supported by the Infrastructure Investment and Jobs Act (e.g., National Oceans and Security Fund, Coastal Zone Management, National Estuarine Research Reserves, and Coastal Habitat Restoration and Resilience in Underserved Communities).

Applicants should refer to watershed plans, resiliency plans, or other fishery-related strategic planning, conservation, or management documents, as appropriate to support the proposed work. Comprehensive planning documents may range in scale and scope from the level of a local watershed plan to a state- or basin-wide plan. Proposals should identify how the restoration aligns with such comprehensive planning documents or other relevant resources, and if the proposed actions demonstrate high priority and transformative potential within the defined geographic area. Proposals that include multiple sites should demonstrate how projects collectively contribute to the priorities within the same geographic area or watershed.

3) Enhancing Community Resilience to Climate Hazards and Providing Other Co-benefits.

Applicants should describe how the proposed restoration will benefit human populations within or near the project site(s), and how these actions will increase resilience to the climate hazards that are most threatening to the local communities. Applicants may also describe how the proposed work will enhance the ability to plan and prepare for adverse effects of extreme weather events or climate hazards, or provide additional co-benefits to the community (e.g., economic vitality, increased access to natural resources).

4) Providing Benefit to Underserved Communities, Including Through Partnerships with Tribes.

NOAA is committed to the goals of advancing equity and support for tribal and underserved communities. Applicants should identify if the project is to be carried out in full or in part by a tribal government; if the project is located within tribal or underserved communities; and or whether a portion of the resilience benefits from the proposed work will flow to tribal or underserved communities.

C. Program Authority

The Secretary of Commerce is authorized under the following statutes to provide grants
and cooperative agreements for habitat restoration and conservation: Fish and Wildlife Coordination Act 16 U.S.C. 661, as implemented by the Reorganization Plan No. 4 of 1970; Magnuson-Stevens Fishery Conservation and Management Reauthorization Act of 2006, 16 U.S.C. 1891a; and Endangered Species Act, 16 U.S.C. 1535. The NOAA Administrator is authorized under the America COMPLETES Act, as amended, 33 U.S.C. 893a, to support formal and informal educational activities at all levels. This solicitation is authorized under the Infrastructure Investment and Jobs Act (Public Law 117-58), 135 STAT. 1356 (Nov. 15, 2021).

II. Award Information

A. Funding Availability

NOAA anticipates up to $85 million will be available under this solicitation in FY22. NOAA anticipates typical federal funding for awards will range from $3 million to $8 million over three years. NOAA will not accept proposals with a federal funding request of less than $1 million or more than $15 million over the entire award period. NOAA may choose to combine funding available in FY22 and FY23 for this opportunity. If combined, the total amount available will be up to $170 million. This decision will be solely at NOAA’s discretion, but will be based on the timing of the award process, and funding needs as expressed through the number of applications received and amount of funds requested.

Funds will be administered by the NOAA Restoration Center within the Office of Habitat Conservation. The exact amount of funds that may be awarded will be determined in pre-award negotiations between the applicant and NOAA. Any awards made by NOAA using a multi-year award structure will allocate subsequent-year funding based on progress towards stated milestones and availability of funding. This determination is at the discretion of the NOAA Office of Habitat Conservation and the NOAA Grants Management Division (GMD).

Neither NOAA nor the Department of Commerce are responsible for direct costs of application preparation. Publication of this announcement does not obligate NOAA to award any specific project or to obligate any available funds. The number of awards to be made as a result of this solicitation will depend on the number of eligible applications received, the amount of funds requested for habitat restoration, and the merit and ranking of the applications.

B. Project Award Period

NOAA encourages a period of performance of up to three years, with the potential for up
to five years, if necessary. The earliest anticipated start date for awards will be January 1, 2023. Both federal and non-federal match pre-award costs, incurred up to 90 days prior to the award start date, may be requested and will be considered during pre-award negotiations between the applicant and NOAA. Incurring pre-award costs before NOAA GMD offers a grant is at the applicant’s own risk.

Once funds are awarded, recipients of multi-year awards will not need to compete for funding in subsequent years for the same award. NOAA expects, but is not obligated, to provide additional funding to multi-year awards in subsequent years. Adding funds to multi-year awards is contingent on the availability of funds and satisfactory grants performance, and is at the sole discretion of NOAA. Award periods may be extended, at the discretion of NOAA and based on project needs, up to the extent legally allowable. This is typically a maximum award length of five years.

C. Type of Funding Instrument

Selected applications will be funded through cooperative agreements, as described in 2 C.F.R. § 200.1, meaning that NOAA expects to be substantially involved in many aspects of the awards. Substantial involvement may include, but is not limited to, collaborating on the scope of work, providing assistance with technical aspects of the habitat restoration, reviewing and commenting on design plans, and reviewing procurement materials to the extent authorized by 2 C.F.R. § 200.325.

III. Eligibility Information

A. Eligible Applicants

Eligible applicants are institutions of higher education, non-profits, commercial (for profit) organizations, U.S. territories, and state, local, and Native American tribal governments. Applications from federal agencies or employees of federal agencies will not be considered. Federal agencies and employees are not allowed to receive funds under this solicitation, but may serve as collaborative project partners.

Applicants must propose work in coastal, marine, or estuarine areas that benefit species or fisheries outlined within the program priorities (Section I.B). For the purposes of this funding opportunity, coastal areas are defined as those within coastal shoreline counties (or parishes), or within coastal watershed counties (or parishes). Coastal shoreline counties are directly adjacent to the open ocean, estuaries, or the Great Lakes. Coastal watershed counties are located along inland rivers and streams with a significant impact on coastal and ocean resources. Eligible applicants for Great Lakes projects must propose work within one of the
eight U.S. Great Lakes states (New York, Pennsylvania, Ohio, Michigan, Indiana, Illinois, Wisconsin, and Minnesota). Applications that propose projects in the Commonwealth and Territories of the United States, for this solicitation defined as American Samoa, Guam, Northern Mariana Islands, U.S. Virgin Islands, and Puerto Rico, are eligible, but those in the Freely Associated States are not eligible to submit an application.

B. Cost Sharing or Matching Requirement

There is no non-federal matching requirement for this funding. NOAA desires cost sharing to encourage partnerships among government, community, industry, and academia. To this end, applicants should note that cost sharing is an element considered within the evaluation criterion entitled "Project Costs" (see Section V.A). NOAA encourages applicants whose proposed initiatives exceed the budgetary limits for this competition to apply to this competition and also for other, complementary federal funding for separate components of their larger initiatives. In these situations, NOAA will coordinate as necessary with other agencies to assure that funding is not duplicated and that the complementary components will support completion of the larger initiative.

Applicants should refer to 2 C.F.R. § 200.306 for cost sharing or matching policies. Applicants with approved indirect cost rates, and who are planning to provide cost sharing, may find it convenient to propose a portion or all of their indirect costs as match, since the valuation of such costs has already been federally approved and documentation is readily available. Refer to Section IV.1: "Funding Restrictions" and Section VI.B. "Indirect Costs" for information on indirect costs. Refer to Section II.B "Project Award Period" and Section VI.A. "Pre-Award Costs" for information on pre-award costs.

For applications including non-federal match funds within the proposed budget, the ratio of approved NOAA funds to non-federal match funds will be legally binding within the award document signed by NOAA's GMD, if the application is selected for funding. NOAA is under no obligation to amend the match contributions once the award document is signed by the recipient, but the amount may be amended based on extenuating circumstances. Successful applicants should be prepared to carefully document matching contributions.

C. Other Criteria that Affect Eligibility

Applications through Grants.gov must be submitted by the due date and time provided in Section IV.D. Late applications may not be considered for funding. Applicants should consider the possibility of unforeseen impacts from natural hazards that could affect Internet access and use of Grants.gov on or before the application due date. Applicants should be aware that localized hazardous weather or other situations that impact the ability to submit application packages may not result in changes to the application deadline. Information
regarding electronic submission through Grants.gov is contained in Section IV.G.
Applications must contain all required forms. Failure to submit forms may result in
disqualification from this competition. Information regarding electronic submission through
Grants.gov is contained in Section IV.G. NOAA will not accept proposals with a federal
funding request of less than $1 million or more than $15 million over the entire award.

The following information describes ineligible project proposal types and activities:

1) Proposals that focus solely on marine debris prevention and removal are not eligible. To
find out about funding opportunities related to marine debris, please check with the NOAA
Marine Debris Program and the National Sea Grant College Program at
https://www.marinedebris.noaa.gov and https://seagrant.noaa.gov/Funding .
2) Proposals that focus solely on acquisition of real property are not eligible.
3) Proposals that focus solely on beach renourishment for recreational purposes are not
eligible.
4) Proposals addressing hard infrastructure only for water quality improvement are not
eligible. Ineligible activities include, but are not limited to, wastewater treatment plant
upgrades, elimination of combined sewer outfalls, replacement of failing septic systems, and
implementation of agricultural animal waste management plans. However, projects that
improve water quality through the creation or enhancement of fisheries habitat are eligible,
as are projects that increase the amount of streamflow (i.e., storage).
5) Activities that are required by a separate local, state, or federal consent decree, court
order, statute, or regulation are not eligible. Applicants planning to combine grant or
matching funds with mitigation should review the Compensatory Mitigation for Losses of
follow the approach adopted by some other Federal agencies on Page 19636 that describes
scenarios where mitigation credits may or may not be obtained in association with federal
financial incentives.
6) Effectiveness monitoring and research are not eligible project types. The NOAA Office of
Habitat Conservation values effectiveness monitoring and research, but funds are not
included within this solicitation to support monitoring and research-focused projects.
Effectiveness monitoring is longer-term than implementation monitoring, and often requires
detailed field investigations of multiple physical, biological, and geochemical processes. To
find out more about effectiveness monitoring and regional contacts with which to discuss
ideas, visit https://www.fisheries.noaa.gov/national-habitat-conservation-monitoring-and-
evaluation-restoration-projects.

IV. Application and Submission Information
A. Address to Request Application Package

Complete application packages, including required federal forms and instructions, can be found on www.Grants.gov. If a prospective applicant is having difficulty downloading the application forms from www.Grants.gov, contact www.Grants.gov Customer Support at 1-800-518-4726 or support@Grants.gov. Instructions for these forms are available at https://www.grants.gov/web/grants/forms/sf-424-family.html. Information about the recommended format for applications is contained in Section IV.B.

B. Content and Form of Application

A complete, standard NOAA financial assistance application package should be submitted, as described below. Each proposal must include the following Federal application forms. The Standard Form (SF)-424 family may be downloaded from https://www.grants.gov/web/grants/forms.html.

1) SF-424: Application for Federal Assistance
2) SF-424A: Budget Information for Non-construction Programs
3) SF-424B: Assurances for Non-construction Programs
4) CD-511: Certification Regarding Lobbying
5) SF-LLL (if applicable): Disclosure of Lobbying Activities

In addition to the Federal application forms, NOAA recommends the following components as part of a complete application package. Page limits assume an 11- or 12-point font and 1-inch margins. Components should be organized into a maximum of four (4) PDF files outlined below:

PDF 1. Project Summary and Project Narrative (20 page limit)
PDF 2. Budget Narrative (6 page limit)
PDF 3. Project Designs (no page limit)
PDF 4. Supplemental Materials (25 page limit)

The application should follow the organization of the evaluation criteria (see Section V.A) to receive a consistent review against competing applications. The information provided below may help you address the evaluation criteria.

PDF 1. Project Summary and Project Narrative (20 page limit).

Project Summary (2 page limit).
1) Applicant Organization
2) Project Title
3) Site Location. Include the geographic coordinates and the nearest town or watershed. If
multiple sites are proposed, please include geographic coordinates for each site.
4) Brief Project Description. Describe the extent to which the proposed work aligns with the
stated program objective (Section I.A) and program priorities (Section I.B). The description
should outline the expected benefits for the target species or fisheries, and how ecosystem
resilience will be strengthened. Describe the proposed work within the context of the
landscape, watershed, or other geographically defined boundary. The description should
identify how the restoration aligns with comprehensive planning documents or other relevant
resources, and if the proposed actions demonstrate high priority and transformative potential
within the geographic area. Explain how your proposed work will enhance community
resilience to climate hazards, and identify if the project is located within tribal and/or
underserved communities and/or whether a portion of the resilience benefits from the
proposed work will flow to tribal and/or underserved communities.
5) Timeline. Provide a timeline of all project activities. This includes all work to be
supported with federal and/or non-federal formal matching contributions or informal
leverage of other funds, including an indication of when activities will begin.
6) Funding Request. Outline the total request for NOAA funds for each year of the project
period. If non-federal matching contributions are proposed, include the status of the funds
(e.g., not applied for; pending; secured). If other financial support beyond NOAA federal
funds and non-federal match funds will be used to complete the proposed work, outline the
sources and amount of these leveraged funds. If you have submitted (or plan to submit) your
proposal to other relevant funding opportunities, please identify the funding source and/or
title(s) of the competition(s), amount of funds requested, and approximate decision date(s)
for anticipated award selection. If space is limited, provide a summary here and include a
full description in the Supplemental Materials.

Project Narrative (18 page limit).
Proposals are evaluated based on the criteria described in Section V.A. Please review the
evaluation criteria for a full description of topics to include in the project narrative. The
following information provides guidance for how to respond to the evaluation criteria in
context, which may or may not apply to the project type you are proposing. For more
information on program priorities and other goals outlined below, applicants should visit:
https://www.fisheries.noaa.gov/national/funding-and-financial-services/priorities-habitat-
restoration-grants.

1. Importance  Relevance and Applicability of Proposal to the Program Goals.

(a) Sustaining Productive Fisheries and Strengthening Ecosystem Resilience. Applicants
should identify one or more species targeted by the proposed habitat restoration, and
describe the general historic and current status of the population(s). Applicants should
describe how the proposed actions support the recovery or sustainability of Listed Species, Managed Species, saltwater recreational fisheries, and or native fish species of the Great Lakes. For proposals addressing Listed Species, proposed actions should align with ESA Recovery Plans. For proposals targeting Managed Species, proposed actions should be consistent with Fishery Management Plans and should address benefits to Essential Fish Habitat (EFH) for recreationally and commercially important species and their prey. For proposals addressing saltwater recreational fisheries, applicants should identify how proposed actions align with one of the six guiding principles of the National Saltwater Recreational Angler Policy. The policy's goal of supporting sustainable saltwater recreational fisheries resources, including healthy marine and estuarine habitats, is guided by the principle of supporting ecosystem conservation and enhancement through restoration and science-based enhancements and conservation of forage fish. For proposals targeting the Great Lakes, applicants should describe how the habitat restoration actions will benefit native fish species.

Applicants should describe and quantify a measurable effect that the restoration actions will have on the ecosystem (e.g., acres of habitat restored, stream miles opened for fish passage). Descriptions should provide context for the current condition of the habitat, and outline the issues that are limiting recovery or sustainability of the target species or fisheries. Proposals should also address how restoration will strengthen resilience to climate change within the target habitat and the surrounding ecosystem. Proposals can describe the disturbance or stressors that will be minimized or prevented, or how restoration actions will strengthen capacity for adaptation to environmental changes.

(b) Fostering Regionally Important Habitat Restoration. Applicants should explain why the proposed work is meaningful within the selected geographic region. Descriptions should explain how the work may complement other current or proposed restoration efforts, including projects that will help to build climate resilience through other funding opportunities supported by the Infrastructure Investment and Jobs Act (e.g., National Oceans and Security Fund, Coastal Zone Management, National Estuarine Research Reserves, and Coastal Habitat Restoration and Resilience in Underserved Communities). Applicants should refer to watershed plans or other fishery-related strategic planning, conservation, or management documents, as appropriate to the proposed work. Proposals should identify how the restoration aligns with comprehensive planning documents or other relevant resources, and if the proposed actions demonstrate high priority and transformative potential within the defined geographic area. Proposals that include multiple sites should demonstrate how projects collectively contribute to the priorities within the same geographic area or watershed.
(c) Enhancing Community Resilience to Climate Hazards and Providing Other Co-benefits. Applicants should describe how the proposed restoration will benefit human populations within or near the project site(s), and how these actions will promote resilience to the climate hazards that are most threatening to the local communities. Applicants may also describe how the proposed work will enhance the ability to plan and prepare for adverse effects of extreme weather events or climate hazards. Examples of co-benefits include, but are not limited to: protection from flooding and extreme weather events, reduced erosion, and creation of public spaces. Proposals should include descriptions of anticipated benefits and co-benefits within the spatial and temporal context of the proposed restoration.

(d) Providing Benefit to Underserved Communities, Including Through Partnerships with Tribes. Applicants should identify if the proposed work is to be carried out in full or in part by a tribal government or if the project is located within a tribal or underserved community. Applicants should indicate whether a portion of the resilience benefits from the proposed work will flow to tribal or underserved communities and how those benefits will be measured.

2. Technical Scientific Merit.

(a) Project Methodology. Applicants should provide evidence to support the feasibility of the techniques, and address whether the methods are technically sound and safe for the public. The narrative should also describe the sustainability of the proposed methods, and descriptions should address the susceptibility of the site(s) to effects of climate change. Applicants should describe future management, beyond the award period, including mechanisms to protect, maintain, or sustain the restoration site(s). Proposals that include multiple sites should describe the restoration methods for each location. For each restoration site, applicants should clearly identify the project phase(s) (e.g., feasibility study, engineering and design, on-the-ground implementation) and the proposed restoration techniques.

Method-specific considerations: Applicants proposing to install structures that require ongoing maintenance, such as tide gates, should be willing to work with NOAA to develop or refine an operations and maintenance plan. Proposals for structures that require maintenance should specify the responsible entity and describe how the structures will be maintained to ensure lasting habitat benefits. Applicants proposing to enhance existing tidal wetlands, including beneficial reuse of dredged material to increase substrate elevation to keep pace with sea level rise and subsidence effects, should provide information on the source of the dredged materials, the site-specific rate of sea level rise and subsidence, target substrate elevation(s), and how the restored site is expected to keep pace with the rate of sea
level rise and subsidence. Proposals for oyster reef restoration should identify whether the site(s) will be located in areas protected from harvest, and whether the site(s) will serve as a larval source within the targeted ecosystem. If plants or animals will be introduced to the restoration site(s), include the origin/source and regional genetic stock of the plant or animal, and describe the proximity to any existing or remnant sources of similar type in the area.

(b) Project Detail. The project narrative should include a timeline with key milestones and deliverables identified and detail how the actions will be completed within the specified time period. If multiple restoration sites are included within one proposal, the proposed actions should be fully described for each site. Applicants should identify interim milestones that correspond to funding year increments. This includes identifying all consultation and permitting requirements and the current document status (e.g. not applied for, pending, secured), and incorporating the likely award start date and species-specific work windows. For projects with permits or National Environmental Policy Act (NEPA) documents completed or under development, please indicate the status and level of NEPA review (Categorical Exclusion, Environmental Assessment, or Environmental Impact Statement), lead Federal agency, contact information for the lead agency person, and where public copies of the document are available. See also Section VI.B.4 of this announcement.

(c) Implementation Monitoring and Evaluation. Applicants should describe the habitat-based metrics or other quantitative performance measures that will be used to evaluate the success of the proposed restoration actions. Specifically, on-the-ground restoration projects should include ecological targets that can be evaluated within approximately one-year post-implementation. Proposals that focus solely on pre-implementation activities, such as planning, feasibility, and/or engineering and design, should include baseline monitoring. Proposals requesting funding for on-the-ground implementation activities should include a Monitoring Plan (2 page limit) as part of the Supplemental Materials. Applicants should be willing to work with NOAA to adjust planned monitoring activities, if necessary, to ensure that the proposed parameters are appropriate and meet the requirements below.

Proposals that include one of the NOAA Restoration Center’s four primary restoration methods (coral reef restoration; oyster reef restoration; hydrologic restoration; fish passage) should incorporate the applicable implementation monitoring parameters found in the NOAA Restoration Center Implementation Monitoring (Tier 1) Guidance. The guidance document provides an overview of the preferred structure for Monitoring Plans. The monitoring guidance and regional contact persons can be found at: https://www.fisheries.noaa.gov/national-habitat-conservation/monitoring-and-evaluation-restoration-projects.
Proposals that do NOT include one of the NOAA Restoration Center's four primary restoration methods named above should propose sufficient, cost-effective monitoring metrics that will assess whether the restoration actions were carried out as designed. Proposals should: 1) include parameters that evaluate short-term structural changes at the project site(s) (e.g., as-built surveys), and may also include a basic measure of success (e.g., presence/absence of target species); 2) propose pre-implementation data collection, when applicable; 3) include parameters with quantitative or clearly defined targets; and 4) include parameters with targets that can be evaluated within approximately one year after project implementation.

While the NOAA Office of Habitat Conservation values effectiveness monitoring and research, funds are not included within this solicitation to support these efforts. Effectiveness monitoring is longer-term than implementation monitoring, and often requires detailed field investigations of multiple physical, biological, and geochemical processes. Proposals for effectiveness monitoring that do not qualify for other NOAA competitive funding may be eligible for NOAA’s Broad Agency Announcement, posted on Grants.gov.

(d) Socioeconomic Performance Measures. Proposals should include specific metrics or performance measures within the project narrative to capture the impact of the proposed work on community resilience, as well as other expected public safety or community enhancement benefits. Public safety benefits may include infrastructure improvements, flood risk reduction, or removal of a physical hazard. Community enhancement benefits may include recreational or economic improvements. Applicants should identify whether public safety improvements or community enhancements will benefit tribal or underserved communities. Applicants should note whether the proposed work will result in improved equity in access to public resources and/or reduced exposure to environmental risks.

Applicants should be willing to work with NOAA to refine performance measures. The description should include which communities or areas are expected to benefit, when those benefits are expected to occur, and citations for any data, assumptions, or models used to estimate socioeconomic benefits. If an applicant expects the proposed restoration to benefit a tribal or underserved community, socioeconomic performance measures should be tailored to capture benefits to that community. For more information on developing socioeconomic performance measures for restoration projects, applicants should visit: https://www.fisheries.noaa.gov/national-funding-and-financial-services/priorities-habitat-restoration-grants

If selected for funding, applicants will be expected to use North American Industry Classification System (NAICS) codes to characterize project expenses and jobs supported by
NOAA and/or non-federal matching funds. This will include reporting the number of jobs created or retained, and for what duration, in labor hours. NOAA will use this information to analyze the effects of habitat restoration spending on employment and economic output. Applicants selected for funding will receive further guidance on using NAICS codes to record project expenses and labor hours.

3. Overall Qualification of Applicant.

(a) Restoration and Conservation Qualifications. Within the project narrative, applicants should describe the restoration and conservation qualifications of the project team (staff and/or partners), including experience with planning, design, engineering, implementation, and/or monitoring for habitat restoration projects. Resumes or curriculum vitae (CVs) for up to five (5) key personnel should be included within PDF 4. Supplemental Materials, and the documents should highlight relevant education, experiences, and training.

(b) Management Capacity. Within the project narrative, applicants should describe the project team’s ability to successfully manage a federal award. Applicants should demonstrate a strong capacity to maintain financial and administrative records and fulfill reporting requirements. Within the attached resumes or CVs, applicants should highlight relevant experience with management of federal funds or other significant grant awards. Applicants should address whether the project team has the capacity to complete the proposed work on time, even in the face of adverse conditions.

4. Project Costs. Applicants should follow the guidance provided under PDF 2. Budget Narrative.

5. Outreach and Education.

(a) Stakeholder Support. NOAA encourages robust public support for restoration projects, as evidenced by letters from a diverse range of participants and partners. A diverse range of groups may include community associations, local environmental justice organizations, business agricultural groups, adjacent landowners, and state and local governments. If landowner support is essential to implementing the restoration actions, a letter of support or permission should be included. Letters of stakeholder support (and landowner support, if applicable) should be included in PDF 4. Supplemental Materials.

(b) Inclusive Engagement. Proposals should include opportunities for meaningful involvement of local communities and outline how any barriers to accessing the project benefits will be addressed. Applicants should describe how the project(s) will meet the
holistic needs of the community, and may wish to consider developing partner relationships (including contracts or subawards) with other organizations to facilitate the inclusion of tribal and/or underserved communities. A clearly outlined strategy to engage a diverse range of community groups in restoration actions should be included. Applicants who are interested in partnering with conservation corps, veterans groups, Minority Serving Institutions, or other organizations should describe how they plan to implement those partnerships and outline the objectives of their participation.

(c) Community Outreach and Education. Applicants should describe the strategy to share information and educate the public about the restoration actions. Strategies may include, but are not limited to: various formats of outreach content (e.g., signage, newsletters, online content); materials in multiple languages, if applicable; events and volunteer opportunities for community members; informal education and mentoring for interns or early career professionals, including those from underrepresented groups in ocean and atmospheric science and policy careers; opportunities for press visits; or other outreach that encourages support for restoration and environmental stewardship.

PDF 2. Budget Narrative (6 page limit)

Reviewers will evaluate project costs by reviewing the budget narrative. Award costs should be divided into annual funding requests for up to three years in duration. Project costs should be divided into the following categories, also referred to as SF-424A Object Classes: Personnel, Fringe Benefits, Travel, Equipment, Supplies, Contractual, and Other. The sum of funds requested under these Object Classes should be recorded as Total Direct Costs. The costs required for organizational operation that cannot be easily associated with an individual project or program should be recorded as Indirect Costs. Organizations with a federally Negotiated Indirect Cost Rate Agreement (NICRA) should include a copy of the approved NICRA in PDF 4. Supplemental Materials. Organizations without a NICRA may claim the 10% de minimus rate for calculating indirect charges on the Modified Total Direct Costs or may negotiate a rate, as outlined below (see 2 C.F.R. § 200.1 for definitions). Refer to Sections IV.F. and VI.B. of this announcement for more information about indirect costs. These totals should also be recorded on the SF-424A. An SF-424A for each separate year of requested funding will be required prior to an award offer, but not as part of the initial application. NOAA staff will review budget information in recommended applications to determine if costs are allowable, allocable, reasonable, and realistic.

If NOAA funding will be used to complete part of a broad-scale project, a budget overview for the entire project should be provided to demonstrate how the NOAA request relates to the overall project budget and how NOAA funds are needed for successful implementation.
If page limits are restrictive, focus the application on those actions with the highest priority funding needs. If all aspects of a multi-site proposal cannot be described within the recommended page limits, applicants should consider submitting more than one application. For proposals that include funding requests for capacity-building efforts, applicants should explain how increasing organizational capacity is necessary to support the proposed habitat restoration actions, as well as how capacity building will help to enhance diversity, equity, inclusion, and accessibility within the broader field of habitat restoration. If the proposal has been submitted for funding consideration elsewhere, applicants should include the amount(s) requested or secured from other funding sources and outline whether the funds are federal or non-federal in origin. Applicants should clearly indicate whether any proposed non-federal funds will be included as matching funds. If selected for funding, applicants should be prepared to track all monitoring-related costs.

The NOAA Restoration Center has provided additional guidance on budget narrative development, as well as an example budget narrative and sample SF-424A, in the Supplemental Instructions at https://www.fisheries.noaa.gov/national/habitat-conservation-resources-noaa-restoration-center-applicants/restoration-budget-guidance.

PDF 3. Project Designs (no page limit)

If available, project designs should be included in the application in order for reviewers to comprehensively assess the technical merit of the proposed restoration actions. Construction specifications, scopes of work for services, and cost estimates may also be provided. Please do not attach feasibility studies or watershed plans, the critical components of those documents should be summarized in the project narrative.

PDF 4. Supplemental Materials (25 page limit)

All supplemental materials should be combined into a single PDF, including a cover page that lists all of the documents and associated page numbers. The cover page does not count toward the 25 page limit. The compiled PDF should be uploaded under the “Other Attachments Form” in Grants.gov.

1) Include maps and/or aerial photos with nearby towns and or roads labeled and with the site location(s) highlighted.
2) Include resumes or CVs for up to five (5) key personnel (maximum of 1 page per person), as described in the guidance (Section IV.B.3) under Overall Qualification of Applicant.
3) Include letters of support from a diverse range of partners, as described in the guidance (Section IV.B.5) under Outreach and Education. If applicable, include a letter documenting
support or permission from any private owners or public land managers to conduct work at
the proposed site(s).
4) Include a Data Management Plan (2 page limit). The plan should follow the “Guidance for
Data Management Plans” document at: https://www.fisheries.noaa.gov/national-habitat-
conservation-resources-noaa-restoration-center-applicants#restoration-monitoring-and-data-
management. See Section VI.B.5 of this announcement for a complete description of
NOAA’s Data and Publication Sharing Directive for NOAA Grants, Cooperative
Agreements, and Contracts.
5) If applicable, include a Monitoring Plan (2 page limit) for proposals that involve on-the-
ground implementation, as described in the guidance (Section IV.B.2) for the
“Implementation Monitoring and Evaluation” sub-criterion under Technical / Scientific
Merit.
6) If a proposal includes fish passage activities within Great Lakes habitat, include
appropriate documentation demonstrating consultation with, and support from, the U.S. Fish
and Wildlife Service Sea Lamprey Control Program.
7) Include any other relevant supporting materials, such as: a federally Negotiated Indirect
Cost Rate Agreement; documentation of confirmed sources of formal, non-federal matching
contributions or informal leveraged funds; additional site photos; etc.

C. Unique Entity Identifier and System for Award Management (SAM)

Applicants should: (1) be registered in the federal System for Award Management
(SAM) before submitting an application; (2) provide a valid unique entity identifier on an
application; and (3) continue to maintain an active SAM registration with current
information at all times during which it has an active federal award or an application or plan
under consideration by a federal awarding agency. NOAA may not make a federal award to
an applicant until the applicant has complied with all applicable unique entity identifier and
SAM requirements and, if an applicant has not fully complied with the requirements by the
time NOAA is ready to make a federal award, NOAA may determine that the applicant is
not qualified to receive a federal award and use that determination as a basis for making a
federal award to another applicant. Applicants should allow a minimum of two weeks to
complete the SAM registration; registration is required only once but must be periodically
renewed.

D. Submission Dates and Times

The application deadline is September 6, 2022 at 11:59 PM Eastern time. See Section
III.C for more information.

E. Intergovernmental Review
Applications submitted by state and local governments are subject to the provisions of Executive Order 12372, "Intergovernmental Review of Federal Programs." Any applicant submitting an application for funding is required to complete item 19 on SF-424 regarding clearance by the State Single Point of Contact (SPOC) established as a result of EO 12372. To find out about and comply with a State's process under EO 12372, contact the official listed in Section VII of this announcement for referral information.

F. Funding Restrictions

The budget may include indirect (facilities & administrative [F&A]) costs if the applicant has an established indirect cost rate with the federal government. As defined at 2 C.F.R. § 200.414(f), indirect (F&A) costs are incurred for a common or joint purpose benefitting more than one cost objective, and not readily assignable to the cost objectives specifically benefited, without effort disproportionate to the results achieved (e.g., lights, rent, water, and insurance). A copy of the current, approved negotiated indirect (F&A) cost agreement with the federal government should be included with the application. In accordance with 2 C.F.R. § 200.414(f), an applicant that does not have a current negotiated indirect cost rate may elect to: charge a de minimis rate of 10% of modified total direct costs (MTDC); describe all costs as direct costs in the budget narrative; or establish a new rate through their cognizant agency for indirect costs as defined under 2 C.F.R. § 200.1. Please also refer to Sections IV.B. and VI.B. for additional information.

G. Other Submission Requirements

Applicants should submit applications electronically through www.Grants.gov. Users of Grants.gov will be able to create an online application workspace to submit the application. If an applicant has problems accessing the online workspace at Grants.gov, contact Grants.gov Customer Support at 1-800-518-4726 or support@Grants.gov. Applications must be submitted by the due date and time provided in Section IV.D. Late applications may not be considered for funding. We highly recommend that applicants do not wait until the application deadline to begin the application process through Grants.gov, as registration with SAM is required (Section IV.C).

After electronic submission of the application, applicants will receive an automatic acknowledgment from Grants.gov that contains a Grants.gov tracking number. Applications submitted through Grants.gov will be accompanied by THREE automated responses (the first confirms receipt; the second validates that the submission is acceptable and timely; and the third confirms that the application has been forwarded to NOAA for further processing). If all notifications are not received, applicants should contact the Grants.gov help desk to confirm the application was successfully submitted. After submitting the application package, applicants should download a copy of the submitted application for offline record-
keeping and to verify the contents of the submission zip file. Grants.gov recommends
downloading the submitted application via the Details tab of the workspace and verifying the
contents of each file in the zip.

Submission time will be documented by electronic submission to Grants.gov. All
applications MUST contain ALL required forms. Failure to submit forms may result in
disqualification from this competition. Applicants are responsible for tracking their own
applications. Please notify the contact official in Section VII of this announcement by email
if you are experiencing difficulties with Grants.gov or your organization is not able to use
this system.

V. Application Review Information

A. Evaluation Criteria

Reviewers will assign scores to applications ranging from 0 to 100 points based on the
following five standard NOAA Evaluation Criteria and the respective weights specified
below. Applications that best address these criteria will be most competitive. See Section
IV.B for suggested details to address the evaluation criteria.

1. Importance / Relevance and Applicability of Proposal to the Program Goals (32 points):
This criterion ascertains the extent to which there is intrinsic value in the proposed work
and or relevance to NOAA, federal, regional, tribal, state or local activities. For this
competition, applications will be evaluated based on the following:

(a) Sustaining Productive Fisheries and Strengthening Ecosystem Resilience. To what extent
will the proposed actions restore habitat for the benefit of: 1) Listed Species, through actions
that are prioritized in ESA Recovery Plans; 2) Managed Species, as described in Fishery
Management Plans; 3) saltwater recreational fisheries, as described in the National Saltwater
Recreational Fisheries Policy and Implementation Plans; and or 4) native fish species in the
Great Lakes? To what extent will the proposed actions help to strengthen ecosystem
resilience? Proposals including on-the-ground implementation will be prioritized. For
proposals that solely include pre-implementation activities, such as planning, feasibility,
and or engineering and design, what is the likelihood that the proposed work will provide
direct habitat benefits and strengthen ecosystem resilience, once implemented? (10 points)

0 proposed actions will not result in habitat restoration, and no specific ecosystem or
fisheries benefits are identified; 5 proposed actions will result in a moderate level of
habitat restoration, with some potential for strengthened ecosystem resilience and direct
benefits to the target species or fisheries; 10 proposed actions include on-the-ground implementation and will result in a substantial level of habitat restoration, with high likelihood of strengthened ecosystem resilience and direct benefits to the target species or fisheries.

(b) Fostering Regionally Important Habitat Restoration. To what extent does the proposal demonstrate high priority and transformative potential within the geographic region where restoration work is proposed? Does the proposal describe the relative importance and context within the geographically defined boundary, and identify if the proposed restoration actions are aligned with comprehensive planning documents or other relevant resources? (10 points)

0 no evidence that proposed actions are aligned with comprehensive planning documents or other relevant resources, and no evidence is provided to demonstrate importance within the region; 5 proposed actions are aligned with comprehensive planning documents or other relevant resources, but the proposal lacks evidence regarding level of importance and transformative potential within the region; 10 proposed actions are aligned with comprehensive planning documents or other relevant resources, and proposal provides evidence to demonstrate high priority and transformative potential within the region.

(c) Enhancing Community Resilience to Climate Hazards and Providing Other Co-benefits. To what extent will the proposed actions enhance community resilience to climate hazards? To what extent will the proposed actions result in additional co-benefits to the community? Proposals including on-the-ground implementation will be prioritized. For pre-implementation activities, what is the likelihood that the proposed work will result in enhanced community resilience and other co-benefits, once restoration actions are implemented? (8 points)

0 proposed actions will not enhance community resilience to climate hazards or provide other co-benefits; 4 proposed actions will result in moderate enhancement of community resilience to climate hazards, with potential to provide other co-benefits; 8 proposed actions include on-the-ground implementation and will result in substantial enhancement of community resilience to climate hazards, with a high likelihood of providing other co-benefits.

(d) Providing Benefit to Underserved Communities, Including Through Partnerships with Tribes. Will the benefits of restoration flow to tribal or underserved communities? (4 points)

0 proposed actions will not benefit tribal or underserved communities; 2 proposed actions have the potential of providing benefit to tribal or underserved communities; 4
proposed actions have a high likelihood of providing benefit to tribal or underserved communities.

2. Technical Scientific Merit (25 points): This criterion assesses whether the restoration activity or approach is technically sound, if the methods are appropriate, and whether there are clear goals and objectives. For this competition, applications will be evaluated based on the extent to which the applicant has described a realistic and thorough restoration plan that includes:

(a) Project Methodology. Does the proposal provide support for the feasibility of the methods, including whether the approach is technically sound and safe for the public? Does the proposal provide support for the sustainability of the approach? (8 points)

0 proposal does not provide support for the methodology; 4 proposal provides moderate support for the feasibility and sustainability of the methodology; 8 proposal provides substantial support for the feasibility and sustainability of the methodology.

(b) Project Detail. To what extent does the proposal completely describe the proposed restoration actions, including a realistic timeline, key milestones and outcomes to be achieved, and the status of permitting and environmental compliance? For projects with multiple sites, does the proposal include sufficient detail about the proposed work at each site to assess the merit of the planned activities? (7 points)

0 proposal provides negligible detail regarding restoration actions, realistic timeline, key milestones, and outcomes and project status; 4 proposal provides moderate detail regarding restoration actions, realistic timeline, key milestones and outcomes, and project status; 7 proposal provides substantial detail regarding restoration actions, realistic timeline, key milestones and outcomes, and project status.

(c) Implementation Monitoring and Evaluation. To what extent will the project measure near-term implementation success, following the provided guidance (see Section IV.B: Implementation Monitoring and Evaluation)? If no baseline monitoring will be performed for pre-implementation activities, does the applicant clearly explain the rationale for the lack of monitoring or evaluation measures? (6 points)

0 proposal does not include habitat-based monitoring metrics to evaluate project success, or does not provide a rationale for the lack of assessment measures; 3 proposal includes satisfactory habitat-based monitoring metrics to evaluate project success, or provides a satisfactory rationale for the lack of assessment measures; 6 proposal includes meaningful
habitat-based monitoring metrics or other performance measures to evaluate project success, or provides a clear rationale for the lack of monitoring or assessment measures.

(d) Socioeconomic Performance Measures. Does the proposal include appropriate performance measures for the anticipated socioeconomic benefits? For proposals that solely include pre-implementation activities, does the applicant identify performance measures that would be applicable to future implementation of restoration actions? (4 points)

0 proposal does not include any socioeconomic performance measures; 2 proposal identifies satisfactory performance measures for anticipated socioeconomic benefits; 4 proposal includes targeted, well-described performance measures for anticipated socioeconomic benefits.

3. Overall Qualification of Applicant (15 points): This criterion ascertains whether the applicant possesses the necessary education, experience, training, facilities, and administrative resources to support the proposed award. For this competition, applications will be evaluated based on the following (as demonstrated by attached resumes or CVs that highlight relevant project management and financial management, and accomplishments of the key technical and financial staff):

(a) Restoration and Conservation Qualifications. Does the applicant demonstrate the capacity and knowledge to conduct the proposed work? Does the project team (staff and/or partners) demonstrate the necessary education and experience in planning, design, engineering, implementation, and monitoring efforts, in order to successfully carry out the scale and scope of the project? (8 points)

0 proposal provides no documentation of capacity and knowledge to conduct the proposed work; 4 proposal provides documentation of adequate capacity and knowledge to conduct the proposed work; 8 proposal provides documentation of substantial capacity and knowledge to conduct the proposed work.

(b) Management Capacity. Does the applicant describe the necessary experience, facilities, equipment, and administrative resources available to successfully fulfill the responsibilities associated with managing a federal award? Does the applicant demonstrate an ability to maintain financial and administrative records, and fulfill reporting requirements? (7 points)

0 proposal provides no description of experience or available resources to manage the award; 4 proposal describes adequate experience and available resources to manage the award; 7 proposal describes extensive experience with federal grants (or grants of similar
complexity) and available resources to manage the award.

4. Project Costs (15 points): This criterion evaluates the budget to determine if it is realistic and commensurate with the proposed needs and time-frame. For this competition, applications will be evaluated on the following:

(a) Budget Detail. Has the applicant provided a budget that includes sufficient detail, divided into SI-424A Object Classes? Does the budget clearly outline the NOAA funding request and, if applicable, any other potential funding sources, such as non-federal match? If funds are requested for partial support of a broader restoration effort, or for projects with multiple sites and/or phases, does the proposal include the full project budget and/or a budget for each site or project phase? (3 points)

0 proposal does not provide a detailed budget; 2 proposal provides a moderately detailed budget; 3 proposal provides a very detailed budget.

(b) Funding Allocation and Cost-effectiveness. Does the budget allocate the majority of direct costs within the federal funding request to support the proposed habitat restoration actions (e.g., project planning, feasibility, engineering and design, implementation, monitoring, and/or on-the-ground implementation), compared to the percentage used for activities that are not supporting the proposed projects? Has the applicant demonstrated that a significant overall benefit will be generated at a reasonable cost, based on the applicant's stated objectives? If funds are requested for capacity-building, does the applicant demonstrate how these efforts will support the proposed restoration? (7 points)

0 budget is not cost-effective, and allocates only a small amount of direct federal funds to support the proposed habitat restoration activities; 4 budget is moderately cost-effective, and allocates a moderate amount of direct federal funds to support the proposed habitat restoration activities; 7 budget is very cost-effective, and allocates all direct federal funds to support the proposed habitat restoration activities.

(c) Cost-sharing and Leveraging Funds. To what extent will the applicant complement NOAA's investment with other funding sources, including non-federal matching contributions and federal or non-federal leverage? Confirmed matching and or leveraged funding sources should be documented in the Supplemental Materials. (5 points)

0 budget does not include any formal, non-federal matching contributions or informal, leveraged funds; 3 budget includes formal, non-federal matching contributions and or informal, leveraged funds, with a combined total that is less than a 1:1 ratio of matching or
leveraged funds to NOAA funds; 5 budget includes formal, non-federal matching contributions and/or informal, leveraged funds, with a combined total that meets or exceeds a 1:1 ratio of matching or leveraged funds to NOAA funds.

5. Outreach and Education (13 points). NOAA assesses whether the project is based on broad community support and the award can deliver a focused and effective outreach strategy regarding NOAA's mission to protect the nation's natural resources through habitat restoration. For this competition, applications will be evaluated based on the following:

(a) Stakeholder Support. Does the proposal demonstrate a broad base of stakeholder and community support from partners that are meaningfully contributing to the project? Has the applicant provided support letters from a diverse range of actively contributing partners (and from the landowner, if applicable)? (5 points)

0 proposal does not demonstrate a wide base of stakeholder and community support; 3 proposal demonstrates moderate community support; 5 proposal demonstrates substantial community support through a diverse set of partners.

(b) Inclusive Engagement. Does the proposal include opportunities for meaningful involvement of local communities and outline how any barriers to accessing the project benefits will be addressed? Is there a clearly outlined strategy to maintain the engagement of a diverse range of community groups in the restoration actions? Will underserved communities be engaged in the process? (6 points)

0 proposal does not describe an engagement strategy; 3 proposal describes an adequate engagement strategy; 6 proposal describes a meaningful engagement strategy, and includes underserved communities in the process.

(c) Community Outreach and Education. Does the proposal include an outreach strategy to share information about restoration goals and results to a broad audience? How strong is the potential to encourage future habitat restoration and conservation actions? (2 points)

0 proposal does not include an outreach strategy; 1 proposal includes an adequate outreach strategy; 2 proposal includes a meaningful outreach strategy, and has strong potential to encourage future habitat restoration and conservation actions.

B. Review and Selection Process

Applications will undergo an initial administrative screening to determine if the packages are eligible and complete. NOAA, in its sole discretion, may continue the review
process for applications with non-substantive issues that may be easily rectified or cured. Applications are screened to ensure that they were received by the deadline date, that the applicant is eligible to apply, and that the application includes a project narrative, budget, and supporting documentation as outlined in Section IV.B. NOAA is not required to screen applications before the submission deadline, to identify deficiencies that would cause the application to be rejected or receive a poor evaluation. However, if deficiencies are identified by NOAA or the applicant before the deadline, the applicant may correct any deficiencies by submitting a revised application. After the deadline, the application must remain as submitted; no changes can be made to it.

Eligible applications will undergo a technical review, ranking, and selection process to determine how well they meet the program priorities and evaluation criteria of this solicitation and the mission and goals of NOAA. Eligible applications will be evaluated by three or more merit reviewers as part of a technical review based on the evaluation criteria listed in Section V.A. After the technical review, a panel may convene to make final recommendations to the Selecting Official regarding which proposals best meet the program objectives and priorities (Sections I.A and I.B). The panel will comprise federal employees and/or other subject matter experts and may convene in person or by teleconference, video conference, or other electronic means to discuss applications.

If convened, the panel will be presented with the top-ranked applications, per the results of the technical review. Panelists will also receive the technical review scores and comments for each application. The panelists will individually rate all top-ranked proposals on the following scale:

1. Fair: application marginally addresses the program objective and priorities outlined in Sections I.A and I.B, and was moderately responsive to the evaluation criteria;
2. Good: application adequately addresses the program objective and priorities outlined in Sections I.A and I.B, and was strongly responsive to the evaluation criteria;
3. Excellent: application exceptionally addresses the program objective and priorities outlined in Sections I.A and I.B, and was highly responsive to the evaluation criteria.

If a panel is held, the panel's ranked list will be the ranking considered by the Selecting Official for recommending applications for funding. If a panel is not held, the technical review ranking will be the ranking considered by the Selecting Official for recommending applications for funding.

C. Selection Factors

The Selecting Official will recommend applications for funding in rank order unless an
application is justified to be selected out of rank order, based upon one or more of the following selection factors:

1) Availability of funding;
2) Program priorities and policy factors set out in Sections I.A and I.B;
3) Balance distribution of funds by: a) geographic area, b) type of institutions, c) type of applicants, or d) research areas; or e) project types;
4) Whether the proposal duplicates other projects funded or considered for funding by NOAA or other federal agencies;
5) Applicant's prior award performance;
6) Partnerships and/or participation of targeted groups, including tribes and underserved communities; and
7) Adequacy of information necessary for NOAA staff to make a NEPA determination and draft necessary documentation (Section VI.B) before recommendations for funding are made to the NOAA GMD.

Hence, awards may not necessarily be made to the highest-scored applications. Unsuccessful applicants will be notified that their application was not among those recommended for funding. NOAA may select all, some, or none of the applications, or part of any application, ask applicants to work together or combine projects, defer applications to the future, or reallocate funds to different funding categories, to the extent authorized. Applicants may be asked to modify objectives, work plans, or budgets, and provide supplemental information required by the agency prior to the award. The exact amount of funds to be awarded, the final scope of activities, the project duration, and specific NOAA cooperative involvement with the activities of each project will be determined in pre-award negotiations among the applicant, NOAA GMD, and NOAA program staff. The NOAA Grants Officer makes the final approval decision and issues an award, as described in Sections VI.A and VI.B.

D. Anticipated Announcement and Award Dates

Applicants should anticipate the earliest start date for awards will be January 1, 2023.

VI. Award Administration Information

A. Award Notices

The exact amount of funds to be awarded, the final scope of activities including monitoring, the award duration, and specific NOAA cooperative involvement with the activities of each award will be determined in pre-award negotiations among the applicant, NOAA GMD, and NOAA staff that will administer these restoration awards. The official
notice of award is the Standard Form CD-450, Financial Assistance Award, issued by the
NOAA Grants Officer electronically through NOAA’s Grants Online system. The
authorizing document, the CD-450 award cover page, is provided to the appropriate business
office of the recipient organization.

PRE-AWARD COSTS. Per 2 C.F.R. § 200.458, NOAA authorizes award recipients to
expend pre-award costs up to 90 days before the period of performance start date at the
applicant’s own risk without approval from NOAA, and in accordance with the applicant’s
internal policies and procedures. Such costs are allowable only to the extent that they would
have been allowable if incurred after the date of the Federal award. This does not include
direct proposal costs (as defined at 2 C.F.R. § 200.460). NOAA or the Department of
Commerce are not responsible for direct proposal preparation costs. Pre-award costs will be
a portion of, not in addition to, the approved total budget of the award. Pre-award costs
expended more than 90 days prior to the period of performance start date require approval
from the Grants Officer. This does not change the period of performance start date.

GRANTS OFFICER SIGNATURE. Proposals submitted in response to this solicitation are
not considered awards until the Grants Officer has signed the grant or cooperative
agreement. Only Grants Officers can bind the Government to the expenditure of funds. The
Grants Officer’s digital signature constitutes an obligation of funds by the federal
government and formal approval of the award.

LIMITATION OF LIABILITY. Funding for programs listed in this notice is contingent
upon the availability of funds. Applicants are hereby given notice that funds may not have
been appropriated yet for the programs listed in this notice. Publication of this announcement
does not oblige NOAA to award any specific project or to obligate any available funds.

B. Administrative and National Policy Requirements

1. The Department of Commerce Pre-Award Notification Requirements for Grants and
Cooperative Agreements. The Department of Commerce Pre-Award Notification
Requirements for Grants and Cooperative Agreements contained in the Federal Register
notice of December 30, 2014 (79 FR 78390) are applicable to this solicitation and may be

2. Uniform Administrative Requirements, Cost Principles, and Audit Requirements. Through
2 C.F.R. § 1327.101, the Department of Commerce adopted Uniform Administrative
Requirements, Cost Principles, and Audit Requirements for Federal Awards at 2 C.F.R. Part
200, which applies to awards in this program. Refer to https://www.ecfr.gov/current-title-
2-subtitle-A/chapter-II/part-200 and https://www.ecfr.gov/current-title-2-subtitle-B/chapter-
XIII part-1327.


4. Bureau Terms and Conditions. Successful applicants who accept an award under this solicitation will be bound by bureau-specific standard terms and conditions. These terms and conditions will be provided in the award package in NOAA’s Grants Online system. For NOAA awards only, the Administrative Standard Award Conditions for National Oceanic and Atmospheric Administration (NOAA) Financial Assistance Awards U.S. Department of Commerce are applicable to this solicitation and may be accessed online at https://www.noaa.gov/organization/acquisition-grants/financial-assistance.

5. NEPA Requirements. NOAA must analyze the potential environmental impacts for individual projects as required by NEPA. Detailed information on NOAA compliance with NEPA can be found at the following NOAA NEPA website, http://www.nepa.noaa.gov, including our NOAA Administrative Order 216-6 for NEPA. http://www.nepa.noaa.gov/NAO216_6.pdf, and the Council on Environmental Quality implementation regulations, https://www.ecfr.gov/current/title-40/chapter-V/subchapter. Consequently, as part of an applicant’s package, and under the description of their activities, applicants are required to provide detailed information on the activities to be conducted, safety concerns, locations, sites, species and habitat to be affected, possible construction activities, and any environmental concerns that may exist (e.g., the use and disposal of hazardous or toxic chemicals, introduction of non-indigenous species, impacts to endangered and threatened species, aquaculture projects, and impacts to coral reef systems).

Applicants are encouraged to consult with NOAA as early as possible on proposed projects to discuss NEPA considerations, and should review the restoration-specific environmental compliance documents available at https://www.fisheries.noaa.gov/national-habitat-conservation-resources-noaa-restoration-center-applicants. Funds will not be released until NOAA completes the requisite NEPA analysis and documentation. Funds may be withheld by the GMD under a special award condition requiring the recipient to submit additional environmental law compliance information sufficient to enable NOAA to make an assessment of impacts that the award may have on the environment.

Applicants proposing activities that cannot be categorically excluded from further NEPA
analysis, that are not covered by existing NOAA programmatic NEPA documents, or whose activities are not covered under another agency's NEPA compliance procedures, which can be analyzed and adopted by NOAA, will be informed after the technical review stage. Such applicants may be requested to complete the Environmental Compliance Questionnaire for NOAA Federal Financial Assistance Applicants (https://www.nepa.noaa.gov), assist in the preparation of an EA prior to an award being made, or provide for NOAA review a copy of an EA/EIS that covers proposed activities if one exists. Awardees will be required to cooperate with NOAA in identifying feasible measures to reduce or avoid any identified adverse environmental impacts of their proposed sub-award or sub-contract projects, especially for projects requiring NOAA to consult under the ESA. Failure to agree to do so shall be grounds for not awarding funds or for terminating an award.

6. NOAA's Data Sharing Policy

(a) Environmental data and information collected and/or created under NOAA grants or cooperative agreements must be made discoverable by and accessible to the general public, in a timely fashion (typically within two years), free of charge or at no more than the cost of reproduction, unless an exemption is granted by the NOAA Program. Data should be available in at least one machine-readable format, preferably based on widely used or open-standard format, and should also be accompanied by machine-readable documentation (metadata), preferably based on widely-used or international standards.

(b) Proposals submitted in response to this Announcement must include a Data Management Plan of up to two pages describing how these requirements will be satisfied. The Data Management Plan should be aligned with the Data Management Guidance provided by NOAA in the Announcement (Section IV.B., Project Narrative, paragraph (2)(f)). The contents of the Data Management Plan (or absence thereof), and past performance regarding such plans, will be considered as part of proposal review. A typical plan should include descriptions of the types of environmental data and information expected to be created during the course of the project; the tentative date by which data will be shared; the standards to be used for data metadata format and content; methods for providing data access; approximate total volume of data to be collected; and prior experience in making such data accessible. The costs of data preparation, accessibility, or archiving may be included in the proposal budget unless otherwise stated in the Guidance. Accepted submission of data to the NOAA National Centers for Environmental Information (NCEI) is one way to satisfy data sharing requirements; however, NCEI is not obligated to accept all submissions and may charge a fee, particularly for large or unusual datasets.

(c) NOAA may, at its own discretion, make publicly visible the Data Management Plan from
funded proposals, or use information from the Data Management Plan to produce a formal metadata record and include that metadata in a Catalog to indicate the pending availability of new data.

(d) Proposal submitters are hereby advised that the final pre-publication manuscripts of scholarly articles produced entirely or primarily with NOAA funding will be required to be submitted to NOAA Institutional Repository after acceptance, and no later than upon publication. Such manuscripts shall be made publicly available by NOAA one year after publication by the journal.


7. Minority Serving Institutions. The Department of Commerce / National Oceanic and Atmospheric Administration (DOC / NOAA) is strongly committed to increasing the participation of Minority Serving Institutions (MSIs), i.e., Historically Black Colleges and Universities, Hispanic-serving institutions, Tribal colleges and universities, Alaskan Native and Native Hawaiian institutions, and institutions that work in underserved communities.

8. NOAA Sexual Assault and Sexual Harassment Prevention and Response Policy. NOAA requires organizations receiving federal assistance to report findings of sexual harassment, or any other kind of harassment, regarding a Principal Investigator (PI), co-PI, or any other key personnel in the award. NOAA expects all financial assistance recipients to establish and maintain clear and unambiguous standards of behavior to ensure harassment free workplaces wherever NOAA grant or cooperative agreement work is conducted, including notification pathways for all personnel, including students, on the awards. This expectation includes activities at all on- and offsite facilities and during conferences and workshops. All such settings should have accessible and evident means for reporting violations and recipients should exercise due diligence with timely investigations of allegations and corrective actions. For more information, please visit: https://www.noaa.gov/organization-acquisition-grants.noaa-workplace-harassment-training-for-contractors-and-financial.

9. Required Use of American Iron, Steel, Manufactured Products, and Construction Materials. If applicable, and pursuant to the Infrastructure Investment and Jobs Act (“IIJA”), Pub.L. No. 117-58, which includes the Build American, Buy American (BABA) Act, Pub. L. No. 117-58, §§ 70901-52 and OMB M-22-11, recipients of an award of Federal financial assistance from the Department of Commerce (DOC) are hereby notified that none of the
funds provided under this award may be used for a project for infrastructure unless: 1) all
iron and steel used in the project are produced in the United States—this means all
manufacturing processes, from the initial melting stage through the application of coatings,
occurred in the United States; 2) all manufactured products used in the project are produced
in the United States—this means the manufactured product was manufactured in the United
States, and the cost of the components of the manufactured product that are mined,
produced, or manufactured in the United States is greater than 55 percent of the total cost of
all components of the manufactured product, unless another standard for determining the
minimum amount of domestic content of the manufactured product has been established
under applicable law or regulation; and 3) all construction materials are manufactured in the
United States—this means that all manufacturing processes for the construction material
occurred in the United States. The Buy America preference only applies to articles,
materials, and supplies that are consumed in, incorporated into, or affixed to an infrastructure
project. As such, it does not apply to tools, equipment, and supplies, such as temporary
scaffolding, brought to the construction site and removed at or before the completion of the
infrastructure project. Nor does a Buy America preference apply to equipment and
furnishings, such as movable chairs, desks, and portable computer equipment, that are used
at or within the finished infrastructure project but are not an integral part of the structure or
permanently affixed to the infrastructure project.

Waivers. When necessary, recipients may apply for, and DOC may grant, a waiver from
these requirements. DOC will notify the recipient for information on the process for
requesting a waiver from these requirements. 1) When DOC has made a determination that
one of the following exceptions applies, the awarding official may waive the application of
the domestic content procurement preference in any case in which DOC determines that: a.
applying the domestic content procurement preference would be inconsistent with the public
interest; b. the types of iron, steel, manufactured products, or construction materials are not
produced in the United States in sufficient and reasonably available quantities or of a
satisfactory quality; or c. the inclusion of iron, steel, manufactured products, or construction
materials produced in the United States will increase the cost of the overall project by more
than 25 percent. A request to waive the application of the domestic content procurement
preference must be in writing. DOC will provide instructions on the format, contents, and
supporting materials required for any waiver request. Waiver requests are subject to public
comment periods of no less than 15 days and must be reviewed by the Made in America
Office. There may be instances where an award qualifies, in whole or in part, for an existing
waiver described at whitehouse.gov/omb/management/made-in-america.

Definitions. “Construction materials” includes an article, material, or supply other than an
item of primarily iron or steel; a manufactured product; cement and cementitious materials;
aggregates such as stone, sand, or gravel; or aggregate binding agents or additives— that is or consists primarily of: non-ferrous metals; plastic and polymer-based products (including polyvinyl chloride, composite building materials, and polymers used in fiber optic cables); glass (including optic glass); lumber, or drywall. “Domestic content procurement preference” means all iron and steel used in the project are produced in the United States; the manufactured products used in the project are produced in the United States; or the construction materials used in the project are produced in the United States. “Infrastructure” includes, at a minimum, the structures, facilities, and equipment for, in the United States, roads, highways, and bridges; public transportation; dams, ports, harbors, and other maritime facilities; intercity passenger and freight railroads; freight and intermodal facilities; airports; water systems, including drinking water and wastewater systems; electrical transmission facilities and systems; utilities; broadband infrastructure; and buildings and real property. Infrastructure includes facilities that generate, transport, and distribute energy. “Project” means the construction, alteration, maintenance, or repair of infrastructure in the United States.

10. Review of Risk. After applications are proposed for funding by the Selecting Official, the Grants Office will perform administrative reviews, including an assessment of risk posed by the applicant under 2 C.F.R. § 200.206. These may include assessments of the financial stability of an applicant and the quality of the applicant’s management systems, history of performance, and the applicant’s ability to effectively implement statutory, regulatory, or other requirements imposed on non-Federal entities. Special conditions that address any risks determined to exist may be applied. Applicants may submit comments to the Federal Awardee Performance and Integrity Information System (FAPIIS) (see 41 U.S.C. 2313), accessible through the System for Award Management, about any information included in the system about their organization.

NOAA will consider any comments by the applicant, in addition to the other information in the designated integrity and performance system, in making a judgment about the applicant’s integrity, business ethics, and record of performance under Federal awards when completing the review of risk posed by applicants as described in 2 C.F.R. § 200.206.

11. Indirect Cost Rate. If an applicant has not previously established an indirect cost rate with a Federal agency they may choose to negotiate a rate with the Department of Commerce or use the de minimis indirect cost rate of 10% of MTDC (as allowable under 2 C.F.R. § 200.414). The negotiation and approval of a rate is subject to the procedures required by NOAA and the Department of Commerce Standard Terms and Conditions. The NOAA contact for indirect or facilities and administrative costs is: Lamar Revis, Grants Officer, NOAA Grants Management Division, 1325 East West Highway, 9th Floor, Silver
Notice of Federal Funding

Spring, MD 20910, or lamar.revisor.noaa.gov.

12. Reviews and Evaluations. The applicant acknowledges and understands that information and data contained in applications for financial assistance, as well as information and data contained in financial, performance and other reports submitted by applicants, may be used by the Department of Commerce in conducting reviews and evaluations of its financial assistance programs. For this purpose, applicant information and data may be accessed, reviewed and evaluated by Department of Commerce employees, other Federal employees, and also by Federal agents and contractors, and/or by non-Federal personnel, all of whom enter into appropriate conflict of interest and confidentiality agreements covering the use of such information. As may be provided in the terms and conditions of a specific financial assistance award, applicants are expected to support program reviews and evaluations by submitting required financial and performance information and data in an accurate and timely manner, and by cooperating with the Department of Commerce and external program evaluators. In accordance with 2 C.F.R. § 200.303(e), applicants are reminded that they must take reasonable measures to safeguard protected personally identifiable information and other confidential or sensitive personal or business information created or obtained in connection with a Department of Commerce financial assistance award.

13. Freedom of Information Act. Department of Commerce regulations implementing the Freedom of Information Act (FOIA), 5 U.S.C. Sec. 552, are found at 15 C.F.R. Part 4, Public Information. These regulations set forth rules for the Department regarding making requested materials, information, and records publicly available under the FOIA. Applications submitted in response to this Notice of Funding Opportunity may be subject to requests for release under the Act. In the event that an application contains information or data that the applicant deems to be confidential commercial information that should be exempt from disclosure under FOIA, that information should be identified, bracketed, and marked as Privileged, Confidential, Commercial or Financial Information.

In accordance with 15 C.F.R. § 4.9, the Department of Commerce will protect from disclosure confidential business information contained in financial assistance applications and other documentation provided by applicants to the extent permitted by law.

C. Reporting

Award recipients will be required to submit financial and performance (technical) reports in accordance with 2 C.F.R. § 200.328-330 and the Department of Commerce Financial Assistance Standard Terms and Conditions. In accordance with 2 C.F.R. § 200.328-9 and the terms and conditions of the award, financial reports are to be submitted semiannually. Progress reports shall use the NOAA Restoration Center's progress report
narrative format and form approved by OMB under control number 0648 0718, or a successor form. This form will be provided to awardees by the NOAA Federal Program Officer. In addition, award recipients proposing multiple site locations may be required to complete individual reports for each site, or provide a project site list including status and expenditures.

Narrative progress reports shall be due on the same fiscal year schedule as financial reports (Oct. 30 and April 30) covering April 1 - September 30 and October 1 - March 31, respectively. A comprehensive final report covering all activities during the award period is required and must be received by NOAA within 120 days after the end date of this award.

The Federal Funding Accountability and Transparency Act, 31 U.S.C. 6101 Note, includes a requirement for awardees of applicable federal grants to report information about first-tier subawards and executive compensation under federal assistance awards. All awardees of applicable grants and cooperative agreements are required to report to the Federal Subaward Reporting System (FSRS) available at www.FSRS.gov on all subawards of $30,000 and over.

Recipients will be obligated to assist NOAA in complying with all relevant requirements and implementing guidance issued to Federal agencies by the Office of Management and Budget (OMB), particularly with respect to any requirements related to the IIJA that may be determined at a later time. NOAA anticipates additional guidance may be forthcoming related to responsibilities of recipients of grants and cooperative agreements, including guidance on agency-wide or government-wide requirements.

VII. Agency Contacts

Supplemental Guidance regarding application writing and FAQs about this Announcement can be found at https://www.fisheries.noaa.gov/grant-coastal-habitat-restoration-and-resilience-grants. For further information contact Natalie McLenaghan at (240) 614-3192, or by e-mail at resilience.grants@noaa.gov. Prospective applicants are strongly encouraged to contact NOAA Restoration Center staff before submitting an application to discuss their NOAA project ideas with respect to technical merit and NOAA’s objectives. NOAA will make every effort to respond to prospective applicants on a first come, first served basis. These discussions will not include review of draft proposals or site visits during the application period.

VIII. Other Information
Funds awarded cannot necessarily pay for all the costs that the recipient might incur in the course of carrying out an award. Generally, costs that are allowable include salaries, equipment and supplies, as long as these are “necessary and reasonable” specifically for the purpose of the award. Allowable costs are determined by reference to the OMB Uniform Guidance at 2 C.F.R. Part 200, codified by the Department of Commerce at 1327.101. All cost reimbursement sub-awards (e.g. subgrants, subcontracts) are subject to those federal cost principles applicable to the particular type of organization concerned.
The South Carolina Infrastructure Investment Program (SCIPP) is a major one-time initiative to improve water, wastewater, and stormwater systems throughout the state using federal funds allocated by the 2021 American Rescue Plan Act (ARPA). SCIPP offers a unique opportunity to make long-term capital improvements that will strengthen critical services to residents and businesses across the state, create more resilient communities and build the capacity to support future opportunities for growth and economic development.

"Water and sewer are key to life. The right water and sewer systems in a county can transform a tax base, creating jobs, good schools, and a vibrant community. With this investment, we can ensure that South Carolina will have the workforce, the infrastructure, and the quality of life necessary to compete nationally and globally for jobs and investment for generations to come."

Gov. Henry McMaster
South Carolina Infrastructure Investment Program

In order to achieve maximum impact, the Rural Infrastructure Authority will divide SCIP funds to help large utilities that serve the most people and smaller systems that struggle to raise the capital needed to modernize outdated infrastructure. We will also incentivize regional partnerships where feasible to resolve the viability concerns of smaller systems and encourage other partnerships that create lasting solutions for communities. Funding will include $100M for special economic development projects as designated by the South Carolina Department of Commerce.

The Rural Infrastructure Authority is committed to a transparent and efficient grant process that ensures these funds will transform infrastructure across South Carolina. We will conduct a comprehensive review of applications and an analysis of needs to direct funds where they can be most effective, and then we will distribute grants expeditiously so projects can be completed by the federally mandated deadline of December 31, 2026.

Competitive Programs - $800 million

**Community Impact**
Grant: $683M
- 60% for large utilities
- 25% local investment requirement

**Regional Solutions**
Grant: $580M
- Funding for projects that result in regional consolidation, new or expanded operating agreements or other partnerships, particularly with smaller systems that have viability concerns. A local investment of 15% is required.

**Viability Planning**
Grant: $20M
- Grants up to $1 million maximum will go to very small systems serving 3,300 or fewer people that want to address viability concerns or evaluate regional options as well as to identify capital improvement needs. No local investment is required.

**Eligible Applicants**
Units of local government, special purpose districts, commission of public works and joint municipal organizations. Units of local government may apply on behalf of non-profit water and sewer systems. Applicants must generally own or operate the facilities to be improved.

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**Selection Priorities**
- Regional Solutions
- Protection of Public Health and Water Quality
- Resilience and Storm Protection
- Modernization of Aging Infrastructure
- Capacity Development and Economic Opportunities

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"The SC Rural Infrastructure Authority is motivated by the charge to make transformational improvements to South Carolina’s most critical services, and we will ensure that the state maximizes this opportunity to put communities in a position to succeed in the future."

Bonnie Ammons
Executive Director

South Carolina Rural Infrastructure Authority
1857 11th Street
Columbia, SC 29201
(803) 1131-9200
info.sc.gov
www.sc.gov

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Executive Director

South Carolina Rural Infrastructure Authority
1857 11th Street
Columbia, SC 29201
(803) 1131-9200
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# Grant Application

## Applicant Information

<table>
<thead>
<tr>
<th>Category</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicant Name:</td>
<td></td>
</tr>
<tr>
<td>Mailing Address:</td>
<td></td>
</tr>
<tr>
<td>City, State and Zip:</td>
<td></td>
</tr>
<tr>
<td>County:</td>
<td></td>
</tr>
<tr>
<td>Utility Service Population:</td>
<td></td>
</tr>
<tr>
<td>- 30,000 or more</td>
<td></td>
</tr>
<tr>
<td>- 3,301 - 10,000</td>
<td></td>
</tr>
<tr>
<td>- 10,001 - 29,999</td>
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<tr>
<td>- 3,300 or fewer</td>
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<tr>
<td>□ Check here if applicant is submitting on behalf of a not-for-profit water/sewer company or other eligible entity</td>
<td></td>
</tr>
<tr>
<td>Name:</td>
<td></td>
</tr>
<tr>
<td>NPDES Permit Number:</td>
<td>□ N/A</td>
</tr>
<tr>
<td>PWS ID Number:</td>
<td>□ N/A</td>
</tr>
<tr>
<td>Regional Project Participants:</td>
<td>□ N/A</td>
</tr>
</tbody>
</table>

## Project Description:

| Project Title: |         |
| Project Summary: | (2 3 sentences) |

## Grant Category:

<table>
<thead>
<tr>
<th>Category</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td>Community Impact</td>
<td></td>
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<tr>
<td>Regional Solutions</td>
<td></td>
</tr>
<tr>
<td>Viability Planning</td>
<td></td>
</tr>
</tbody>
</table>

## Type of Project:

- Water
- Stormwater
- Sewer
- Planning

## Project Benefit:

Number of customers/taps directly served by project:

- Residential: __________
- Business: __________

## Funding Request & Budget Summary

<table>
<thead>
<tr>
<th>Source</th>
<th>Construction Costs</th>
<th>Non-Construction Costs</th>
<th>Total</th>
<th>% of Total**</th>
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<tbody>
<tr>
<td>SCIP Funds Requested:</td>
<td>$ 1</td>
<td></td>
<td>$ 1</td>
<td>100%</td>
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<tr>
<td>RIA State Funds Requested:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Service pop ≤10,000 only</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Other</td>
<td></td>
<td></td>
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<tr>
<td>Other</td>
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<td></td>
<td>$ 0</td>
<td>0%</td>
</tr>
<tr>
<td>Local Funds:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Project Funding:</td>
<td>$ 1</td>
<td>$ 0</td>
<td>$ 1</td>
<td></td>
</tr>
</tbody>
</table>

* Include a 25% construction contingency allowance
** SCIP local investment requirements (the minimum percentage of project costs that must be provided by non-SCIPP funds):
- Community Impact: Large Systems (≥30,000 service pop) 25% of project costs, Regional Solutions: 15%
- Viability Planning: None
## Project Schedule & Readiness

| Milestone                  | Expected/Actual Completion | Permits required (list types): |  
|----------------------------|----------------------------|--------------------------------|----------
| Final Design               | Date:                      | ☐ N/A                          |  
| Permits Acquired           | Date:                      | ☐ N/A                          |  
| Acquisition                | Date:                      | ☐ N/A                          |  
| Advertise for Bids         | Date:                      | ☐ N/A                          |  
| Start of Work              | Date:                      | ☐ N/A                          |  
| Completion of Work         | Date:                      | ☐ N/A                          |  

**Federal final expenditure deadline is December 2026**

<table>
<thead>
<tr>
<th>Contact Information</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Title</td>
<td>Phone</td>
</tr>
<tr>
<td>Chief Elected or Administrative Official:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Local Project Contact:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Local Financial Contact:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engineer/Consultant:</td>
<td></td>
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</tr>
</tbody>
</table>

## Certification

As the Chief Executive Official for the applicant, I certify that the information in this request and the attachments is complete and correct and that the applicant has authorized submission of this request for the SC Infrastructure Investment Program, which is funded through State Fiscal Recovery Funds allocated to the State of South Carolina and authorized by the American Rescue Plan Act, to assist in carrying out the project described herein. Further, I acknowledge that the herein described project will meet an eligible use of these funds as defined by U.S. Treasury’s State and Local Fiscal Recovery Funds program guidelines, and that if awarded this project will comply with all applicable federal, state, and local regulations and laws.

<table>
<thead>
<tr>
<th>Name of Chief Executive Official (Elected or Administrative)</th>
<th>Title</th>
<th>Signature*</th>
<th>Date</th>
</tr>
</thead>
</table>

* Please save this completed form for electronic submission prior to signing. Do NOT submit a scanned version. The printed form with original, pen-and-ink signature must be mailed or delivered as detailed on page 6.

Please see the following pages for required attachments and application submission instructions.

Applications must be received by 5:00 pm on September 12, 2022.
ATTACHMENT 1: APPLICATION NARRATIVE

Attach a brief narrative about the project that addresses each of the topics indicated.

A. NEED
   Explain the need for this project including:
   • a summary of the current condition, capacity and deficiencies of existing facilities
   • the frequency and severity of the problem

B. PROJECT DESCRIPTION
   Provide a detailed description of the project, including all activities regardless of funding source

C. FEASIBILITY
   • Identify how the project will cost-effectively solve the problem or improve conditions including consideration of two other alternatives.
   • Explain how the project will be carried out to meet the December 2026 federal expenditure deadline, including any anticipated problems or delays
   • Provide specific plans for preparing for and dealing with cost overruns
   • For systems serving up to 10,000 people or those in Tier III/IV counties that are requesting up to $500,000 in RIA state grant funds to supplement local investment, provide rationale for the need and impact of requesting these funds
   • Describe any interest in implementation of a “dig once” plan for incorporation of broadband conduit during project construction. Such projects will be referred to the Office of Regulatory Staff for possible coordination and funding.

D. BENEFITS/IMPACT
   • Explain how the project will make a transformative impact on the community and address one or more of the following priorities:

   **Community Impact Grants**
   1. Regional Solutions
      projects that implement solutions that impact multiple systems
   2. Water Quality
      projects that address consent orders, violations, or other public health or environmental impacts
   3. Resilience and Storm Protection
      projects that help utilities prepare for emergencies
   4. Other Aging Infrastructure
      projects that upgrade or replace infrastructure that has exceeded its useful life
   5. Capacity
      projects that improve service for existing residents while preparing for future opportunities

   • Include any additional information that should be considered in evaluating the proposed project.

   **Regional Solutions Grants**
   1. The project results in a consolidation or operating agreement with at least one small system with viability concerns
   2. The project results in an expanded partnership agreement with at least one small system with viability concerns
   3. The project results in a consolidation or operating agreement with other systems

Required attachments for capital improvement projects are CONTINUED on the next page.
ATTACHMENT 2: PRELIMINARY ENGINEERING COST ESTIMATE

- A detailed, itemized cost estimate for both construction and other costs, prepared within the past year.
- A 25% construction contingency should be included as a separate line item.
- A PER may be attached but is NOT required.

ATTACHMENT 3: PROJECT LOCATION AND SERVICE AREA MAPS

One or more maps showing the system service area as well as location, size and/or capacity of existing and proposed infrastructure within the project service area. Identify census tracts for the proposed infrastructure. Use symbols and color-coding to identify activities.

ATTACHMENT 4: FUNDING AND OTHER COMMITMENTS

- Commitments of all non RIA funds required to implement the project:
  - For local funds, a letter of commitment (with original signature) from the chief elected or administrative official. The letter should identify the source of the funds (e.g., general fund or enterprise fund) and when the funds will be available.
  - For other sources, a copy of the award letter or other documentation from the agency that includes the amount of funds awarded.
- Certification of public ownership for all necessary easements/rights of way or other real property already acquired for this project.
- If the applicant proposes improving infrastructure that it does not own, include a letter from the system owner describing the partnership between the two entities and granting permission for the applicant to carry out the project.

ATTACHMENT 5: VIABILITY SELF-ASSESSMENT FOR RIA STATE GRANT REQUESTS

Utilities serving 10,000 people or less OR located in Tier III/IV counties may request RIA state grant funds up to $500,000 to supplement the local investment requirement. Those applicants must download and complete the Utility Viability Tool and submit the Results Summary as part of this application. Other applicants may choose to complete the tool and submit the results to document need.

The Utility Viability Tool can be downloaded at ria.sc.gov/utility-viability/.

ADDITIONAL ATTACHMENTS

Include any other relevant documentation that supports the application narrative. Examples may include:
- Sanitary surveys or compliance inspections to document existing issues.
- Notice of violations, consent orders, or corrective action plans related to the project.
- Test results, customer complaints, repair logs, photos, etc. documenting the problem to be addressed.

June 29, 2022
ATTACHMENTS FOR VIABILITY PLANNING PROJECTS

ATTACHMENT 1: APPLICATION NARRATIVE
Attach a brief narrative about the project that addresses each of the topics indicated:

A. NEED
   Explain the need for this project including:
   - Specific technical, financial and managerial challenges faced by the applicant
   - Steps that have been taken to strengthen viability

B. PROJECT DESCRIPTION
   Provide a detailed description of all proposed planning activities regardless of funding source

C. FEASIBILITY
   - Identify how the planning activities will cost effectively address the challenges identified
   - Explain how the planning activities will be carried out to meet the December 2026 federal expenditure deadline, including any anticipated problems or delays
   - Provide specific plans for preparing for and dealing with cost overruns

D. BENEFITS/IMPACT
   - Describe how the outcome of the planning activities will be used to support long-term viability, including plans for the implementation of any recommendations
   - Include any additional information that should be considered in evaluating the proposed project

ATTACHMENT 2: DETAILED COST ESTIMATE
A detailed, itemized cost estimate for all proposed activities, prepared within the past year

ATTACHMENT 3: SERVICE AREA MAPS
County or municipal road/street maps identifying the applicant's service area including the census tracts

ATTACHMENT 4: FUNDING AND OTHER COMMITMENTS
- Commitments of all non RIA funds required to implement the project:
  - For local funds, a letter of commitment (with original signature) from the chief elected or administrative official. The letter should identify the source of the funds (e.g., general fund or enterprise fund) and when the funds will be available
  - For other sources, a copy of the award letter or other documentation from the agency that includes the amount of funds awarded

ADDITIONAL ATTACHMENTS
Include any other relevant documentation that supports the application narrative. Examples include:
- Sanitary surveys, compliance inspections, or other documentation of regulatory issues
- Documentation of system challenges such as financial statements or the results summary from the Utility Viability Tool which can be downloaded at ria.sc.gov/utility_viability/
To ensure the proposed project complies with program guidelines (including eligibility, local investment and budget/cost feasibility), please review the **SCIIP Program Strategy** before completing the application.

### Submission Instructions

Applications must be submitted **both electronically and in hard copy**. Please carefully review the required submissions:

1. **2 hard copies of the signed application and attachments:**
   - a. One original version with *original*, pen-and-ink signatures on the application certification and any local funding commitment letters
   - b. One duplicate copy of the full application (all attachments included)

   **AND**

2. **Required electronic files (2 separate PDFs):**
   - a. The PDF of the application form, completed but unsigned and saved in its original format (NOT printed and scanned)
   - b. A single PDF of all attachments, in the requested order

**Hard copies may be mailed or hand-delivered but must be received by 5:00 p.m. on September 12, 2022.**

**Electronic files may be emailed to info@ria.sc.gov or sent on a flash drive with the hard copies.**

### Address Information

<table>
<thead>
<tr>
<th>Mailing Address</th>
<th>Delivery Address</th>
<th>Email Address</th>
</tr>
</thead>
</table>
| SC Rural Infrastructure Authority  
1201 Main Street, Suite 1600  
Columbia, SC 29201 | SC Rural Infrastructure Authority  
1201 Main Street, Suite 1740  
Columbia, SC 29201 | info@ria.sc.gov |

All application submissions (both hard copies and electronic files) must be **RECEIVED by 5:00 p.m. on September 12, 2022.**

Please contact RIA staff with any questions about application requirements or submission procedures.

803-737-0390  
info@ria.sc.gov

**RIA**  
South Carolina  
Rural Infrastructure Authority

June 29, 2022
TIME AND MATERIALS WORK AUTHORIZATION

In accordance with the Agreement for Engineering Services between the City of Charleston ("Client"), and AECOM, dated March 26, 2019, this Work Authorization describes the Services, Schedule, and Payment Conditions for Services to be provided by AECOM ("Consultant") on the Project known as:

City of Charleston
Design and Permitting for Infrastructure Improvements in Project Arenas 1 and 2 in the Central Park Watershed

Client Authorized
Representative: Matthew Fountain, P.E., P.G.
Address: Department of Stormwater Management
City of Charleston
2 George Street
Charleston, SC 29401

Telephone No.: (843) 724-3754

Consultant Authorized
Representative: David M. Wood, P.E., P.H., Vice President
Address: 4016 Salt Pointe Parkway
North Charleston, SC 29405

Telephone No.: (843) 767-4602

SERVICES: The Services shall be described in Attachment A to this Work Order.

SCHEDULE: The Estimated Schedule shall be set forth in Attachment B to this Work Authorization. Because of the uncertainties inherent in the Services, Schedules are estimated and are subject to revision unless otherwise specifically described herein.

PAYMENT AND EQUITABLE ADJUSTMENTS: This is a time and materials Work Authorization. Consultant's estimates for the costs to complete Tasks are specified in Attachment C to this Work Authorization. Payment of $90 is due upon signature of this Work Order and will be applied against the final invoice for this Work Authorization. Consultant shall give Client prompt written notice of unanticipated conditions or conditions which are materially different from those anticipated by Consultant at the time compensation was developed. If Client wishes Consultant to proceed, Consultant's total compensation shall be subject to equitable adjustment for such conditions.

TERMS AND CONDITIONS: The terms and conditions of the Agreement referenced above shall apply to this Work Authorization, except as expressly modified herein.

ACCEPTANCE of the terms of this Work Authorization is acknowledged by the following signatures of the Authorized Representatives:

CITY of CHARLESTON, SOUTH CAROLINA

[Signature]
Typed Name/Title
Date of Signature

AECOM

[Signature]
Typed Name/Title
Date of Signature
Attachment A
Scope of Services
Work Authorization #XX

Design and Permitting for Infrastructure Improvements in Project Areas 1 and 2 in the Central Park Watershed

Project Understanding
The City of Charleston (City) has requested the services of AECOM ("Consultant") to provide Engineering Design and Permitting Services for new stormwater infrastructure in Project Areas 1 and 2 in the Central Park Watershed as described below. The Project Areas are illustrated in Appendix A.

Proposed improvements include pipe diameter increases, drainage channel geometry modifications, increasing the capacity of permanent stormwater best management practices, and installation of check valves.

The purpose of this scope of work is to advance the pre-design work in these areas completed under a separate contract (Evaluation and Recommendation for Central Park Project Area). This Work Authorization includes the Preliminary Engineering, Engineering Design of infrastructure improvements, and obtaining the necessary permits to construct the improvements for Project Areas 1 and 2. Area 3 is to be considered in the Preliminary Engineering phase by using a conservative assumption for water coming into the basin during the Preliminary Engineering and Design of improvements in Project Areas 1 and 2.

Priority Area #1 – Improvement of James Island Creek Upstream of Riley Rd
Improvements at the most downstream end of the watershed are considered highest priority. These include improving the flow capacity of the conveyance system upstream and to the West of Riley Road, adding a flow-variable ("muted") check valve to the culverts under Riley Road, and replacing circular culverts with box culverts. These improvements increase the capacity of the stormwater conveyance system and will reduce flooding in the upstream areas of the watershed. The entire Central Park watershed drains through the Priority Improvement features. Improvements in upstream areas of the watershed will not be effective if the stormwater assets in the downstream reaches of the watershed are deficient. Priority 1 improvements to a large extent replicate and are in accordance with recommendations in the 1984 Master Plan.

Priority Area #2 – Wimbledon Channel
Priority 2 areas are concentrated around the Wimbledon channel. This is the location where the City receives numerous flooding complaints from residents. Model results show that the Wimbledon channel does not meet LOS. Photographs provided by the residents show that the channel cross-section has been significantly reduced in some areas due to accumulation of debris/cross-over of side banks. There are sections within this channel with adverse slopes. The recommended improvements in this area include fixing the sections with adverse slope and improving and maintaining the restricted cross-sections. Because this channel flows through a residential area and the frequent flooding complaints and property damage recorded by the residents has been well documented, recommended improvements to this channel and its tributaries was assigned the second highest priority. Furthermore, improvements to the Priority 2 area will facilitate and help alleviate flooding in areas on the eastern side of the watershed along Wambaw Avenue.

Consultant has prepared tasks listed herein as a step-by-step process toward the completion of engineering design of construction plans and permits for the stormwater infrastructure projects in Project Areas 1 & 2.
Task 1: Project Management, Communications and On-call Consulting

Task 1.1 - Project Management: City Coordination

The Consultant will designate a Project Manager for administration and coordination of the project with the City. The Project Manager will be responsible for the execution of directives from the City and will render written responses to requests for information. The Consultant will also designate a Lead Engineer on this project.

Consultant will conduct a kickoff meeting with City staff to review the scope of services and schedule. At this initial meeting, the team will review sub-tasks, project expectations and completion timeframes. The purpose of the kickoff will be to define timeframes and develop a comprehensive project schedule. This meeting will also serve to define coordination responsibilities between the City and Consultant.

The Consultant will attend progress meetings with the City during the project, prepare meeting agenda, and prepare minutes of the meetings. The budget for meetings includes six (6) meetings with the City. This includes the following: one project kickoff meeting, six progress meetings with City during design and permitting.

This task also covers overall project management and administration including City coordination, subconsultant coordination, project QA/QC activities, and preparing and transmitting invoices. Consultant will assist the City with necessary figures and maps for the project to be utilized during public meetings held by the City. Public Outreach is not included in this task order.

Deliverables

- Kick-off Meeting and Minutes
- 6 Progress Meetings and Minutes
- Project Schedule
- Bi-weekly e-mail conveying project progress and completion timeframe in accordance with the project schedule.

Task 2: Review of Existing Information and Field Survey

Task 2.1 - Data Collection and Field Visit

Consultant will collect and review any relevant available information of existing structures (in addition to that already collected and available as part of the Evaluation and Recommendation for Central Park Project Area) needed to develop a detailed design for the stormwater infrastructure from both regulatory and non-regulatory data sources. These include:

- Updated drawings/drainage maps for proposed developments in project area
- Previous Hydrologic and Hydraulic (H&H) models
- Existing Geographical Information System (GIS) databases
- Previous H&H reports
- Environmental Resource Permit (ERP) files and in-built information of relevant existing infrastructure
- Available stage and flow monitoring data
- H&H level boundary data/predictions/projections
- Topographic information such as LiDAR, 2-foot contours elevation maps, etc.
- Floodplain datasets and associated reports
Task 2.2 – Field Investigation/Survey

Consultant will initiate a Palmetto Utility Protection Service (PUPS) investigation to collect utility line information, including, but not limited to, water, sewer, electrical, fiber optic, gas, telephone and cable. Consultant will integrate this information into the topographic survey.

Consultant will complete a topographic site survey of each of Project Areas 1 & 2 within the project limits to augment any existing survey information (survey information collected as part of the Evaluation and Recommendation for Central Park Project Area). For this scope of services, the project limits are defined as either the existing public right-of-way or a 50-foot corridor along existing stormwater pipes and ditches that extend over private property. Survey limits associated with areas designated for additional storage/conveyance shall vary and will be demarcated on a plan provided to the surveyor. The survey will include previously marked utilities, aboveground features such as power poles, fire hydrants, etc., edge of pavements and driveways, existing stormwater ditches, delineated wetlands, and other pertinent infrastructure within the project area. Consultant will collect the following data:

- Ground elevations at appropriate intervals to create a topographic surface to be used in design of stormwater improvements
- Location of aboveground and underground utilities as marked by Palmetto Utility Protection Services (PUPS). In areas of proposed critical infrastructure, existing underground utilities may be further identified with pot holes.
- Location of all structures (fences, parking pads, edge of pavement, sidewalks, patios, walkways, bridges, etc.)
- Location of all drainage structures (catch basins, drop inlets, junction boxes, etc.) including:
  - Pipe invert, throat elevations, weir elevations, and top of box elevations
  - Pipe material
  - Pipe diameter
- Location of all building footers and structures within 50' of the estimated pipe centerline
- Location of structures and improvements that cross the drainage feature
- Location of the OCRP critical line in areas surrounding the stormwater outfalls

Should Consultant encounter catch basins with solid concrete tops or tops that are immovable, the City will provide support staff and equipment to provide Consultant access to these structures to collect invert elevations and pipe size information on these structures within the project corridor.

Additionally, should any of the existing stormwater ditches or catch basins be located on private property, the City will provide authorized access through coordination with the property owner. Boundary surveying of individual lots or the public right-of-way is not included in this scope of services. Should the City require boundary survey for the acquisition of property, Consultant will negotiate a scope and fee later. Surveying is estimated based on a not to exceed of $45,000 based on the project area. Should additional survey be needed, these services can be done with City approval and an amended work authorization.

Deliverables

- Field Investigation Survey for Project Areas

Task 2.3 - Geotechnical Exploration

Consultant will provide a geotechnical exploration of the project areas. This will include borings in areas where box culverts may be needed under major roadways as well as in critical areas of the canals where slope stabilization is of concern. The geotechnical exploration will include laboratory testing (index testing, associated liquefaction) and
engineering analysis and reporting which addresses grading, structure loading, and slope stabilization. Consultant estimates the cost of geotechnical exploration services will not exceed $13,250. Should the City require additional geotechnical exploration on this project, Consultant will provide these services through an amended work authorization.

**Task 3: Update of ICPR Model and Preliminary Engineering — Project Areas 1 & 2**

**Task 3.1: One-Dimensional Hydrologic & Hydraulic (H&H) Model and Value Engineering**

Consultant will review the existing localized H&H analysis for Evaluation and Recommendation for Central Park Project Area conducted in ICPR Version 4.0. Consultant will update the model as needed for design evaluation of existing and proposed conditions for Project Areas and determine stormwater runoff rate for the 50th, 10th, and 4th Annual Exceedance Probability (AEP) design frequency and 24-hour duration storm events. The model will incorporate normal tidal conditions along with storm surge and sea level rise. Task 3 analysis will clearly describe the hydraulic inter-relationships and dependencies between projects. For example, the functional performance of a downstream project may in part be dependent on performance of an upstream project and vice versa. Such inter-relationships may be the basis for project sequencing.

Consultant will consider if there are feasible alternatives to any components of each of Project Area as well as conduct value engineering to determine if they are superior in relation to costs, benefits, or schedule.

The Consultant will review each project area considering the design level model analysis and value engineering with City staff to agree on preferred path forward. Consultant will then progress to identifying specific design parameters for stormwater infrastructure improvements.

**Task 3.2: Preliminary Engineering**

Consultant will perform preliminary engineering activities for the stormwater conveyance practices throughout Project Areas 1 & 2. Consultant will evaluate the storm drainage improvements including, but not limited to, piping, ditches, catch basins, and inlets to a level necessary to render meaningful results to incorporate into the design and development of downstream project areas.

**Deliverables:**

- Design level ICPR model along with model simulation results
- Summary memo of value engineering recommendations and conclusions agreed to with City. Consultant will submit a Concept Plan to the City, one schematic layout of the proposed drainage improvements, and the second a final Concept Plan set including plan and profile of the system.

**Task 4: Construction Plan Development — Project Areas 1 & 2**

Consultant will develop detailed Construction Plans for the stormwater infrastructure improvements for Project Areas 1 & 2. This task includes development of design plans for restoration and stormwater infrastructure improvements within the project areas. Consultant will provide the City with 50th and 100th plans suitable for permitting and construction bidding. Consultant will work closely with City staff throughout the design process to obtain input and recommendations with respect to the design. Consultant will conduct formal Constructability review at the 50th design. Final submittal will include plans and specifications suitable for bidding and construction. Consultant will prepare two (2) separate design packages for permitting, bidding, and construction.
The construction plans are likely to include the following:

- **Cover Sheet** - This sheet will include the name of the project, location map, and other items required for permitting.
- **Existing Conditions** - This plan will be based upon the topographic survey to illustrate existing conditions on the site. The plan will show existing pavements, curbs, storm drain boxes, utility lines, etc.
- **Site Clearing and Demolition Plans** - These plans will illustrate clearing limits, trees to be protected (if any), and any structures or utilities to be demolished, relocated, and/or retained.
- **Grading and Drainage Plans** - These plans will illustrate the existing and proposed grades of the stormwater drainage system, designed to allow positive drainage away from buildings and roadways. These plans will include detailed stormwater design for the open and closed drainage systems which will convey runoff to ultimate outlets. These plans will include stormwater pipe profiles to minimize the potential for unexpected conflicts with existing utilities in the project area.
- **Erosion Control Plans** - These plans will illustrate erosion control features to minimize the potential for sediment migrating off-site. They will be prepared in accordance with SCDEH requirements. They will also include details of the Best Management Practices (BMPs) used, including grading, silt fence, inlet protection, and temporary construction entrance/exit. Additionally, these erosion control plans will include stabilization design and features for the canal banks.
- **Details** - These sheets will illustrate the details necessary for the contractor to adequately construct the project and include items such as storm drainage pipe bedding, catch basins, pavement replacement, etc.

**Deliverables**

- 50% and 100% Engineering Design Construction Plans suitable for permitting and construction bidding
- Memo summarizing 50% design constructability review

**Task 5: Bid Documents and Technical Specifications - Project Areas 1 & 2**

Consultant will prepare Bid Documents that will include both procurement documents that prospective bidders must comply with and technical specification outlining the materials to be used, construction methods and procedures, and quality standards to be followed. Consultant understands that City typically uses an Engineers Joint Contract Documents Committee (EJCDC) front end. Consultant will work with City to determine the extent to which this can be leveraged to minimize the cost of developing the Bid Documents and Technical Specifications.

**Deliverables**

- Bid Documents and Technical Specifications

**Task 6: Preliminary Construction Cost Estimates - Project Areas 1 & 2**

Consultant will prepare a Class 3 Opinion of Probable Construction Costs (OPCC). Consultant will base this estimate on our experience on similar projects, actual costs for projects recently bid, and on preliminary estimates of quantities needed for construction. Consultant will compare the Class 3 estimate approximately midway through the design phase (50%) with the project budget to determine if the various phases of the project need to be adjusted or if value engineering options need to be considered. Consultant will revise the Class 3 estimate to Class 1 in association with the 100% design bid package.
Deliverables

- Class 3 OPCC at 50% design
- Class 1 OPCC at 100% design

Task 7 - Permitting - Project Areas 1 & 2
Consultant will prepare and obtain the necessary permit application packages for Project Areas 1 & 2 (including application forms, maps, and calculations) and submit them to the appropriate agencies. At this time, Consultant believes the following permits that will be required:

- City of Charleston - Charleston County - Engineering Approval
- City of Charleston - Charleston County - Stormwater Department Approval
- SCDHEC - Stormwater Land Disturbance Approval
- SCDHEC OCRM - Critical Area Permitting
- SCDHEC OCRM - Coastal Zone Consistency (C/Z) Approval
- South Carolina Department of Transportation (SCDOT) - Encroachment Permit
- US Army Corp of Engineers - Individual Permit (Includes Jurisdictional Determination)

Consultant will include Hydrologic and Hydraulic (H&H) Stormwater Calculations to demonstrate that the post-developed peak stormwater flow rates do not exceed the pre-developed peak flow rates (per SCDHEC regulations) and that City stormwater design manual criteria are achieved to the extent feasible. The calculations will also confirm that the proposed drainage improvements have adequate capacity to reduce flooding according to agreed upon criteria and minimize the potential for flooding in Project Areas 1 & 2 for events larger than the City’s design storms.

Consultant will prepare the H&H model to meet the specific requirements for all the above approval permitting entities which may require modifications in association with the permitting process.

Consultant will develop a Stormwater Pollution Prevention Plan (SWPPP) to describe the implementation of best management practices to reduce the pollutants in stormwater discharges associated with activity at the construction site to assure compliance with the terms and conditions of the City's MS4 stormwater permit.

Consultant will respond to three (3) Request for Information Comments for each approval permit entity listed above.

Deliverables

- Permit application packages for Project Areas 1 & 2
- H&H Stormwater Calculations
- Construction activity SWPPP - One document for both project areas

Additional Services
If any tasks not listed above become necessary to complete the work, Consultant can assist the City of Charleston on either an hourly basis according to the hourly rate schedule, as per the Master Agreement, or with a revised scope of services at the City's discretion.
Assumptions & Exclusions
The following items are not included in this scope of services, but can be performed as an additional service based on a signed agreement with the Client:

- Environmental services (Phase I ESA, Cultural Resources, etc.)
- FEMA flood studies
- Design of stormwater pumping systems
- Design of underground stormwater detention systems
- Property or right-of-way acquisition
- Boundary surveying or the preparation of plats and easements
- City is responsible for permitting and review fees
- Holding and award
- Construction administration and observation services
- Anything not explicitly outlined in the scope of services listed above
### Estimated Schedule

#### Project Completion Schedule

Consultant is prepared to begin work immediately upon receipt of a signed contract. We anticipate all project areas will be done simultaneously. Based on our experience with projects similar in scope, we anticipate the following schedule:

<table>
<thead>
<tr>
<th>Task</th>
<th>Duration</th>
<th>Cumulative Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Task 1 – Project Management</td>
<td>On-going</td>
<td>On-going</td>
</tr>
<tr>
<td>Task 2 – Review of Existing Information and Field Survey</td>
<td>2 months</td>
<td>2 months</td>
</tr>
<tr>
<td>Task 3 – Update of ICPR Model and Preliminary Engineering</td>
<td>2 months</td>
<td>4 months</td>
</tr>
<tr>
<td>Task 4 – Construction Plan Development</td>
<td>4 months</td>
<td>8 months</td>
</tr>
<tr>
<td>Task 5 – Bid Documents and Technical Specifications</td>
<td>1 month (concurrent with plans)</td>
<td>8 months</td>
</tr>
<tr>
<td>Task 6 – Preliminary Construction Cost Estimates</td>
<td>1 month</td>
<td>9 months</td>
</tr>
<tr>
<td>Task 7 – Permitting</td>
<td>6-12 months*</td>
<td>15-21 months*</td>
</tr>
</tbody>
</table>

*USACE Permitting could potentially take longer.
Attachment C
Schedule of Fees and Charges

Compensation is based upon our understanding of the project and our experience on projects similar in scope. City of Charleston will pay directly to the regulatory agency all fees required for the permitting of the project.

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
<th>Total Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Task 1</td>
<td>Project Management &amp; Communications</td>
<td>$40,994</td>
</tr>
<tr>
<td>Task 2</td>
<td>Review of Existing Information and Field Survey</td>
<td>$107,139</td>
</tr>
<tr>
<td>Task 3</td>
<td>Update of ICPR Model and Preliminary Engineering</td>
<td>$52,371</td>
</tr>
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<td>Task 4</td>
<td>Construction Plan Development - Project Areas 1&amp;2 Only</td>
<td>$120,673</td>
</tr>
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<td>Task 5</td>
<td>Bid Documents and Technical Specifications - Project Areas 1 &amp; 2 Only</td>
<td>$21,445</td>
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<td>Task 6</td>
<td>Preliminary Construction Cost Estimates - Project Areas 1 &amp; 2 Only</td>
<td>$34,712</td>
</tr>
<tr>
<td>Task 7</td>
<td>Permitting</td>
<td>$56,660</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td><strong>$433,992</strong></td>
</tr>
</tbody>
</table>
Appendix A

Project Area Location Map

Project Areas included in this scope for Design and Permitting are 1 & 2 only. Project Area 3 will be considered by using a conservative flow to be accommodated by Area 1 in a future project.
TIME AND MATERIALS WORK AUTHORIZATION

In accordance with the Agreement for Engineering Services between the City of Charleston ("Client"), and AECOM, dated March 26, 2019, this Work Authorization describes the Services, Schedule, and Payment Conditions for Services to be provided by AECOM ("Consultant") on the Project Known as:

City of Charleston
Stormwater Infrastructure Improvements
in the Cooper Jackson Watershed

Client Authorized
Representative: Matthew Fountain, P.E., P.G.
Address: Department of Stormwater Management
City of Charleston
2 George Street
Charleston, SC 29401
Telephone No.: (843) 724-3754

Consultant Authorized
Representative: David M. Wood, P.E., P.H., Vice President
Address: AECOM
4016 Salt Pointe Parkway
North Charleston, SC 29405
Telephone No.: (843) 767-4602

SERVICES. The Services shall be described in Attachment A to this Work Order.

SCHEDULE. The estimated Schedule shall be set forth in Attachment B to this Work Authorization. Because of the uncertainties inherent in the Services, Schedules are estimated and are subject to revision unless otherwise specifically described herein.

PAYMENT AND EQUITABLE ADJUSTMENTS. This is a time and materials Work Authorization. Consultant's estimates for the costs to complete the tasks are specified in Attachment C to this Work Authorization. Payment of $20 is due upon signature of this Work Order and will be applied against the final invoice for this Work Authorization. Consultant shall give Client prompt written notice of unanticipated conditions or conditions which are materially different from those anticipated by Consultant at the time compensation was developed. If Client wishes Consultant to proceed, Consultant’s total compensation shall be subject to equitable adjustment for such conditions.

TERMS AND CONDITIONS. The terms and conditions of the Agreement referenced above shall apply to this Work Authorization, except as expressly modified herein.

ACCEPTANCE of the terms of this Work Authorization is acknowledged by the following signatures of the Authorized Representatives:

CITY of CHARLESTON, SOUTH CAROLINA

[Signature]
Typed Name/Title: [Signature]
Date of Signature: [Date]

AECOM

[Signature]
Typed Name/Title: [Signature]
Date of Signature: [Date]
Attachment A
Scope of Services

Work Authorization # X
Stormwater Infrastructure Improvements
in the Cooper Street / Jackson Street Watershed

Project Understanding
The City of Charleston (City) has requested the services of AECOM ("Consultant") to provide design and permitting services for new stormwater infrastructure in the Cooper Jackson Watershed. The objective of this scope of work is to advance the conceptual recommendations made in the Cooper Street / Jackson Street Watershed Study dated June 2022. This Work Authorization includes the design of stormwater infrastructure improvements and obtaining the necessary permits to construct the improvements. At this time based on the conceptual evaluation, the Consultant understands that the project areas consist of the following:

- **Phase 1** - The majority of Phase 1 is located near the watershed outlet. Phase 1 includes all of Morrison Drive, the main trunk line along Grace Bridge Street, America Street south of Grace Bridge Street, Cooper Street east of Aiken Street, and Aiken Street. Improvements include up-sizing storm drainage pipes, slope adjustments, and installing selected parallel pipes.

- **Phase 2** - Phase 2 includes three (3) stormwater lines, including the main trunk line along Lee Street between Meeting Street and America Street. These stormwater lines run parallel between Lee Street and Cooper Street. The improvements include up-sizing storm drainage pipes, slope adjustments, and installing selected parallel pipes. A Low Impact Development (LID) project will be considered on City-owned property at Aiken and Lee Streets.

- **Phase 3** - Phase 3 includes smaller areas between Nassau Street and America Street and between Johnson Street and Jackson Street. These improvements include pipe slope adjustments and structural improvements.

Consultant has identified the improvements listed above to be cost-effective upgrades to an existing system that will reduce flooding in the area but will not meet the City's SWSDM requirements for new development. The tasks listed herein have been developed as a step-by-step process toward the completion of construction plans and permits for the stormwater infrastructure projects.

Task I - Project Management and City Coordination

**Task 1.1 - Project Management and Meetings with City**

The Consultant will designate a Project Manager for administration and coordination of the project with the City. The Project Manager will be responsible for the execution of directives from the City and will render written responses to requests for information. The Consultant will also designate a Lead Engineer on this project.

Consultant will conduct a kickoff meeting with City staff to review the scope of services and schedule. At this initial meeting, the team will review sub-tasks, project expectations, and completion timelines. The purpose of the kickoff will be to define timelines and develop a comprehensive project schedule. This meeting will also serve to define coordination responsibilities on project tasks between the City and Consultant.
The Consultant will attend regular progress meetings with the City during the project, prepare meeting agenda, and prepare minutes of the meetings along with an invoice for the previous period’s completed work. The budget for meetings includes six (6) additional meetings with the City in addition to the project Kick-off meeting.

This task also covers overall project management and administration including City coordination, subconsultant coordination, and project QA/QC activities.

**Task 1.2 – Grant Assistance**

The Consultant will assist the City with developing the required documentation to accompany grant application for this project. This will be a collaborative effort between the Consultant and the City as described in more detail below:

1. The City will provide documentation of flooding during previous storm events, including photographs, newspaper articles, quotes from residents and business owners, height of floodwaters on structures, and documentation of actual damages.
2. The Consultant will utilize the City’s documentation in preparing a Benefit Cost Analysis (BCA) using the H&H model (version 6.0). The Consultant will also utilize the Engineer’s Estimate of Construction Costs in preparing the BCA.
3. If adequate information on actual damages is not available, the Consultant will estimate the flooding water surface elevations based on the H&H model and incorporate this into FEMA’s Depth of Damage Function (DDF) Table to calculate the estimated damages for the project.
4. The Consultant will provide necessary mapping to illustrate the areas of flooding as well as proposed infrastructure to mitigate the flooding.
5. If FEMA requires Finished Floor Elevations (FFE) for individual structures, the Consultant can provide that as an additional service. This level of effort is not included as a part of this scope of work.

**Deliverables**

- Kick-off Meeting Minutes
- Minutes of Progress Meetings
- Project Schedule
- Bi-weekly e-mail conveying project progress and completion timeframe in accordance with the project schedule.

**Task 2 – Data Collection and Field Survey**

**Task 2.1 – Data Collection and Field Visit**

Consultant will collect and review any relevant available information of existing structures (in addition to that already collected and available as part of the Cooper/Jackson Watershed Study) needed to develop a detailed design for the stormwater infrastructure from both regulatory and non-regulatory data sources. These include:

- Previous Hydrologic and Hydraulic (H&H) models
- Existing Geographical Information System (GIS) databases
- Previous H&H reports
- Environmental Resource Permit (ERP) files and as-built information of relevant existing infrastructure
- Available stage and flow monitoring data
- Tidal level boundary data/predictions/projections
- Topographic information such as LiDAR, 2-foot contours elevation maps, etc.
- Floodplain datasets and associated reports

After review of existing information, Consultant will do a field reconnaissance of the Cooper Jackson watershed to verify the existence and non-existence of the structures, understand the drainage patterns, and investigate areas where existing topographic data may be inconsistent with aerial photography or might not seem appropriate based on available as-built data LiDAR. Consultant will develop a summary of the findings from the field visit.

Task 2.2 – Field Investigation/Survey

Consultant will initiate a Public Utility Protection Service (PUPS) investigation to collect utility line information, including, but not limited to, water, sewer, electrical, fiber optic, gas, telephone and cable. Consultant will integrate this information into the topographic survey.

Consultant will complete a topographic site survey of project area within the project limits. For this scope of services, the project limits are defined as either the existing public right-of-way or a 50’ corridor along existing stormwater pipes and ditches that extend over private property. The survey will include previously marked utilities, above ground features such as power poles, fire hydrants, etc., edge of pavements and driveways, existing stormwater ditches, delineated wetlands, and other pertinent infrastructure within the project area. Consultant will collect the following data:

- Ground elevations at appropriate intervals to create a topographic surface to be used in design of stormwater improvements
- Location of above ground and underground utilities
- Location of all structures (fences, parking pads, edge of pavement, sidewalks, patios, walkways, bridges, etc.)
- Location of all drainage structures (catch basins, drop inlets, junction boxes, etc.) including:
  - Pipe invert, throat elevations, weir elevations, and top of box elevations
  - Pipe material
  - Pipe diameter
- Location of all building faces and structures within 50’ of the estimated pipe centerline
- Location of structures and improvements that cross the drainage feature

Should Consultant encounter catch basins with solid concrete tops or tops that are immovable, the City will provide support staff and equipment to provide Consultant access to these structures to collect invert elevations and pipe size information on these structures within the project corridor.

Additionally, should any of the existing stormwater ditches or catch basins be located on private property, the City will provide authorized access through coordination with the property owner. Boundary surveying of individual lots or the public right-of-way is not included in this scope of services. Consultant considers boundary surveys for the acquisition of property to be an additional service outside of this scope. Upon notice by the City of need for this service Consultant will negotiate a scope and fee.

Deliverables
- Field Investigation Survey
Task 3 – Hydrologic & Hydraulic (H&H) Model and Value Engineering

Consultant will review the existing localized H&H analysis of the Cooper Jackson watershed developed in ICPR Version 4.0 as part of the watershed master plan. Consultant will update the existing 2D model as needed for evaluation of existing and proposed conditions for the project area and determine stormwater runoff rates for the 50% AEP, 10% AEP, and 4% AEP 24-hour duration storm events. The model will use normal tidal and normal tide with 2-feet sea level rise as boundary condition.

Consultant will evaluate feasible alternatives to any components in the Cooper Jackson watershed and conduct Value Engineering to determine if they are superior in relation to costs, benefits, or schedule. The Consultant will review the stormwater infrastructure improvements considering the design level model analysis and value engineering with City staff to agree on preferred path forward. Consultant will then progress to identifying specific design parameters for stormwater infrastructure improvements. The infrastructure improvements will include the evaluation of a stormwater pump station near Grace Bridge Road and associated discharge piping. The consultant will determine the capacity of the pump station and the size of the discharge pipe to the outfall and will update the H&H model.

Deliverables

- Design level ICPR model along with model simulation results
- Summary memo of Value Engineering recommendations and conclusions agreed to with City

Task 4 – Construction Plan Development

Consultant will develop detailed Construction Plans for the stormwater infrastructure improvements. This task includes development of design plans for restoration and stormwater infrastructure improvements within the project area. Consultant will review a 30% concept with the City during a progress meeting for consensus. Consultant will provide the City with 50% and 100% plans suitable for permitting and construction bidding. Consultant will work closely with City staff throughout the design process to obtain input and recommendations with respect to the design. Consultant will conduct a Constructability Review at the 50% design. Final submittal will include Plans and Specifications suitable for bidding and construction.

The Construction Plans are likely to include the following

- **Cover Sheet** – This sheet will include a location map, and other items required for permitting
- **Existing Conditions** – This plan will be based upon the topographic survey to illustrate existing conditions on the site. The plan will show existing pavements, curbs, storm drain boxes, utility lines, etc.
- **Site Clearing and Demolition Plans** – These plans will be created to illustrate clearing limits, trees to be protected (if any), and any structures or utilities to be demolished, relocated, and/or removed.
- **Grading and Drainage Plans** – These plans will illustrate the existing and proposed grades of the stormwater drainage system designed to allow positive drainage away from buildings and roadways. These plans will include detailed stormwater design for the open and closed drainage systems which will convey runoff to ultimate outfalls. These plans will include stormwater pipe profiles to minimize the potential for unexpected conflicts with existing utilities in the project area.
- **Erosion Control Plans** – These plans will illustrate erosion control features to minimize the potential for sediment migrating off-site. They will be prepared in accordance with SCDHEC requirements. They will
also include details of the Best Management Practices (BMPs) used, including grading, silt fence, inlet protection, and temporary construction entrances and exits.

- Deliverables - These sheets will illustrate the details necessary for the contractor to adequately construct the project and include items such as storm drainage pipe bedding, catch basins, pavement replacement, etc.

**Deliverables**

- 50% Construction Plans for City review
- Memo summarizing 50% Design Constructability Review
- 100% Construction Plans or City review

**Task 5 – Project Manual and Technical Specifications**

Consultant will prepare a Project Manual that will include both procurement documents that prospective bidders must comply with and technical specifications outlining the materials to be used, construction methods and procedures, and quality standards to be followed.

**Deliverables**

- Project Manual

**Task 6 – Preliminary Estimate of Construction Costs**

Consultant will prepare a Class 2 Preliminary Estimate of Construction Costs. This estimate will be based on our experience on similar projects, actual costs for projects recently bid, and on the quantities outlined in the 50% Construction Plans. The preliminary estimate will be compared with the project budget to determine if the various phases of the project need to be adjusted or if value engineering options need to be considered prior to bidding.

**Deliverables**

- Class 2 Preliminary Estimate of Construction Costs

**Task 7 – Engineer’s Estimate of Construction Costs**

At BMP design, Consultant will prepare a Class 1 Engineer’s Estimate of Construction Costs. This estimate will be based on specific quantities detailed unit cost with detailed takeoffs for items in the construction plans.

**Deliverables**

- Class 1 Engineer’s Estimate of Construction Costs

**Task 8 – Permitting**

Consultant will prepare the necessary permit application packages (including application forms, maps, and calculations) and submit them to the appropriate agencies. At this time, Consultant believes the following permits will be required:

- City of Charleston - MS4 Engineering Approval
• South Carolina Department of Health and Environmental Control (SCDHEC) - Stormwater Land Disturbance Approval
• South Carolina Department of Transportation (SCDOT) - Encroachment Permit
• US Army Corps of Engineers (USACE) - Clean Water Act Section 404 Wetland Permit
• SCDHEC-401 Water Quality Certification

Consultant will include HEC Stormwater Calculations to demonstrate the proposed improvements will reduce existing flooding conditions without having an adverse impact downstream.

Consultant will develop a Stormwater Pollution Prevention Plan (SWPPP) to describe the implementation of best management practices to reduce the pollutants in stormwater discharges associated with activity at the construction site to assure compliance with the terms and conditions of the City’s MS4 stormwater permit.

Consultant will prepare a Section 404 permit application. At this time, it is assumed that the project can be permitted under a Nationwide Permit. This subtask would involve the following:
• Pre-Application meeting with Charleston District USACE
• Desktop survey of soil designations, vegetative communities, and listed species information
• Field delineation of jurisdictional waters
• Preparation of nationwide permit application and coordination with USACE
• Estimate of compensatory mitigation credits and identification of appropriate wetland mitigation bank

Additional Services
If any tasks not listed above become necessary to complete the analysis, including property research, geotechnical investigation, or easement services, Consultant can assist the City of Charleston on either an hourly basis according to the hourly rate schedule, as per the Master Agreement, or with a revised scope of services at the City’s discretion.

Assumptions & Exclusions
The following items are not included in this scope of services, but can be performed as an additional service based on a signed agreement with the Client:
• Environmental services (Phase 1 H&H, Cultural Resources, etc.)
• FEMA Flood studies
• Design of stormwater pumping systems
• Design of underground stormwater detention systems
• Geotechnical exploration
• Property or right-of-way acquisition
• Boundary surveys or the preparation of plats and easements
• Permitting, review, and compensatory wetland mitigation fees
• Additional grant assistance related to IIE for individual structures and additional modeling
• Bidding and award
• Construction administration and observation services
• Wetland mitigation plan if needed
• SCDHEC Ocean & Coastal Resource Management (OCRM) office critical area permit, if needed
• Anything not explicitly outlined in the scope of services listed above

City of Charleston
Attachment B
Estimated Schedule

Project Completion Schedule

Consultant is prepared to begin work immediately upon receipt of a signed contract. We assume a three (3) month period for permit applications to be reviewed by regulatory agencies. Based on our experience with projects similar in scope, we anticipate the following schedule:

<table>
<thead>
<tr>
<th>Task</th>
<th>Duration</th>
<th>Cumulative Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Task 1 - Project Management</td>
<td>On-going</td>
<td>On-going</td>
</tr>
<tr>
<td>Task 2 - Data Collection and Field Survey</td>
<td>3 months</td>
<td>3 months</td>
</tr>
<tr>
<td>Task 3 - H&amp;H Model</td>
<td>2 months</td>
<td>5 months</td>
</tr>
<tr>
<td>Task 4 - Construction Plans</td>
<td>4 months</td>
<td>9 months</td>
</tr>
<tr>
<td>Task 5 - Specifications</td>
<td>3 months (concurrent with plans)</td>
<td>9 months</td>
</tr>
<tr>
<td>Task 6 - Preliminary Estimate of Costs (50%)</td>
<td>1 month (concurrent with plans)</td>
<td>9 months</td>
</tr>
<tr>
<td>Task 7 - Engineer's Estimate of Costs (100%)</td>
<td>1 month (concurrent with plans)</td>
<td>9 months</td>
</tr>
<tr>
<td>Task 8 - Permitting</td>
<td>3 months</td>
<td>12 months</td>
</tr>
</tbody>
</table>
Attachment C
Schedule of Fees and Charges

Compensation is based upon our understanding of the project and our experience on projects similar in scope. City of Charleston will pay directly to the regulatory agency all fees required for the permitting of the project.

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
<th>Total Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Project Management</td>
<td>$56,199</td>
</tr>
<tr>
<td>2</td>
<td>Review and Survey</td>
<td>$146,487</td>
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<tr>
<td>3</td>
<td>H&amp;H Model &amp; Value Engineering</td>
<td>$98,235</td>
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<tr>
<td>4</td>
<td>Construction Plans</td>
<td>$206,322</td>
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<tr>
<td>5</td>
<td>Specifications</td>
<td>$40,138</td>
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<tr>
<td>6 &amp; 7</td>
<td>Class 1 &amp; 2 Cost Estimates</td>
<td>$40,425</td>
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<tr>
<td>8</td>
<td>Permitting</td>
<td>$79,350</td>
</tr>
<tr>
<td></td>
<td><strong>Total:</strong></td>
<td><strong>$667,156</strong></td>
</tr>
</tbody>
</table>
EMERGENCY PURCHASE JUSTIFICATION FORM

DEPARTMENT: Stormwater Management

PRODUCT: Repair of 42" RCP storm drain (Lee and America Streets)

VENDOR: B&C Land Development, Inc.

DATE: July 11, 2022

1. Describe in detail the Emergency and impact to City operations.

   During the recent cleaning of the existing pipe at Lee Street, a length of the pipe between America and Lee Street was found to be severely damaged and had collapsed adjacent to the SC State Extension Service building. The chance of complete failure of the pipe and possible damage to the building makes this an emergency procurement.

2. Describe in detail the item affected and what corrective action needed.

   The storm drain will be repaired by replacing the failed RCP.

3. What is the estimated cost and time to complete repair/replacement.

   The cost for this repair will not exceed $62,009.00. Work is underway. It had to be done to prevent a potential additional collapse near the extension building.

Requester Signature [Signature] Title: Senior Project Manager

Approver Signature [Signature] Title: Director of SW Management