# ELMHURST PARK DISTRICT BOARD OF PARK COMMISSIONERS MEMORANDUM

**DATE:** June 27, 2022

**TO:** Board of Park Commissioners

FROM: James W. Rogers, Executive Director

Brian McDermott, Director of Enterprise Services

RE: SUGAR CREEK RESTORATION PROJECT

#### **ISSUE**

The objective of this project is to improve the Sugar Creek waterway through the golf course by addressing issues related to shoreline erosion, loss of property, sediment deposit accumulations, degraded water quality, and other impacts. Improvements to the Sugar Creek are essential for accomplishing the Vision 2020 Strategic Theme of Meeting Community Need for Parks, Open Space, and Outdoor Amenities.

#### **DISCUSSION**

On September 10, 2018, the Park Board approved the project to restore the eroding Creek (memo with plan attached) and staff worked with a consultant on grant submittals, final engineering and permit applications. In March 2021, Sugar Creek Golf Course was notified of being awarded the DuPage County Water Quality Improvement Program Grant. The acceptance of this grant was predicated on receiving the Illinois Environmental Protection Agency Grant 319 which occurred in September 2021.

Funding to temporarily advance the Sugar Creek Restoration project was approved at the January 24, 2022 meeting in the amount of \$1,225,031.38 with \$672,515.68 from Tier 2 Cash and Investments to later be reimbursed from grant funding and \$552,515.70 in equal thirds to be funded by the Sugar Creek Golf Course Fund, Recreation Fund, and Village of Villa Park (memo attached).

Requests for sealed bids were advertised through a legal notice in the Elmhurst Suburban Life on April 8, 2022 and a mandatory pre-bid meeting was held on April 20, 2022. Seventeen contractors requested bid packets and six contractors attended the mandatory pre-bid meeting. A public bid opening was held on May 12, 2022 with four contractors submitting sealed bids. The bid tally sheet is attached.

Working with project engineers, staff then identified the alternates to accept (101-105, 110-121) and applied these alternates to each bidder's bid list resulting in Semper Fi Land, Inc. submitted the lowest, responsible bid of \$1,164,960.81 (spreadsheet attached with recommended alternates highlighted). Positive reference checks for Semper Fi Land, Inc. were received from

the Village of Glenview, Libertyville Township and Forest Preserve District of Will County who have completed similar projects. Staff also met with Semper Fi staff to do a scope review of the project. A records search has been completed with the Illinois Department of Labor (IDOL) and Dun & Bradstreet, Inc. with no violations found.

The following summarizes the base bid and highlights of the major alternates:

Base Bid ...... \$ 737,031.95

• Offsite storage vs.onsite storage

Major Alternate Highlights

- a) General Site/Pond/Wetland/Stream Restoration
  - Offsite Disposal
  - Import of Clean Structural Clay
- b) Additional Rock Toe for Relatively Steeper Pond Shoreline Areas
  - Not to exceed quantity
- c) Far West Inlet Channel

TOTAL ..... \$1,164,960.81

At its meeting on June 8, 2022, the Sugar Creek Golf Course Administrative Board approved a recommendation that the Board of Park Commissioners approve the proposed contract.

#### RECOMMENDATION

That the Board of Park Commissioners (1) award the base bid of the Sugar Creek Restoration Project in the amount of \$737,031.95 to Semper Fi Land, Inc.; (2) accept alternate items numbered 101-105, 110-121 in the amount of \$427,928.86; and (3) authorize the Executive Director to execute said contract accordingly.

Thank you.

Attachments: Engineering Proposal Memo with Plans 09.10.18

Project Funding Memo 01.24.22

Bid Tally

Semper Fi Detailed Bid Costs

#### ELMHURST PARK DISTRICT BOARD OF PARK COMMISSIONERS MEMORANDUM

DATE: September 10, 2018

**TO:** Board of Park Commissioners

FROM: James W. Rogers, Executive Director

Brian McDermott, Director of Enterprise Services David Anderson, Division Manager - Golf Course

RE: FUNDING FOR PROFESSIONAL ENGINEERING SERVICES AGREEMENT -

SUGAR CREEK RESTORATION

#### **ISSUE**

In order to prepare cost estimates and construction documents to apply for grants to aid in funding the potential restoration of Sugar Creek at the golf course, engineering and design work must be completed. This project addresses the Board's Strategic Work Plan Theme, Meet community need for parks, open space, and outdoor amenities, Goal PA1: Maintain and update existing parks, open space and amenities.

#### **DISCUSSION**

The body of water named Sugar Creek that runs through the golf course is an extremely valuable resource that provides open space, aquatic habitat, flood storage, runoff conveyance, recreational opportunities, and other benefits for the community. Unfortunately, the value of the water resource has been compromised due to shoreline erosion, loss of property, sediment deposit accumulations, degraded water quality, carp populations, algae blooms, impaired aesthetics, loss of water volume, and other impacts. The creek contains a dam at the east end of the golf course to create an irrigation source with an open water feature. The shoreline retaining wall is failing in many areas. Failure to address these issues may result in paying for irrigation when the current irrigation source fails and up to five holes will need to be changed or possibly closed due to unsafe shorelines.

Based on the identified needs for Sugar Creek Golf Course, funding requirements to complete this work is expected to approach \$1,500,000. However, grant opportunities are available (particularly through the Illinois Environmental Protection Agency) that could potentially fund a large portion of the costs.

#### Action Plan

In demonstrating its commitment to investing in the future of Sugar Creek and the golf course, staff will present the following plan (see attached) that has been developed by Living Waters Consultants to undertake a long term solution.

### Concept Plan/Preparation of Grant Application – Completed FY2017/2018

\$10,200

### Final Engineering Plans/Permitting Process – FY2018/19

\$120,000

- 1. Mapping and Studies
  - a. Watershed Evaluation
  - b. Storm water Studies
  - c. Golf Course Plans
- 2. Field Assessment
  - a. Field-based stream and riparian corridor investigation
  - b. Pond shoreline and inlet channel survey
  - c. Pond sediment survey
  - d. Existing irrigation intake equipment and installation review
  - e. Site surveying
- 3. Final Engineering Plans
  - a. Base map preparation
  - b. Final Engineering Plans and Specifications shall be prepared
  - c. Details and Specifications shall be provided.
  - d. Engineering Plans shall be reviewed by Sugar Creek Golf Course
  - e. Engineer's Opinion of Probable Construction Costs
- 4. Permitting Submittals
- 5. Other Grant Funding Opportunities

#### Construction -

FY2019/20 \$1,400,000

#### **Funding**

Sugar Creek Golf Course is jointly owned by the Elmhurst Park District and the Village of Villa Park with both entities participating equally in regards to gains, losses and mutually agreed upon capital improvements. As the Board is aware, the golf course fund does not currently have Tier 2 Cash and Investments available for an undertaking of this magnitude. Therefore, initially any costs related to this project must be shared equally by the two entities with the funds to be noted as an accounts payable for the golf course to repay to the parent bodies.

#### **Total Cost Projection:**

Final Engineering Plans/Permitting Process	\$ 120,000
Restoration Project Cost	\$ <u>1,400,000</u>
Total Cost	\$ <u>1,520,000</u>

#### **Proposed Funding:**

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Elmhurst Park District

Final Engineering Plans/Permitting Process	\$60,000
Restoration Project	\$ <u>105,000</u>

\$ 165,000

Village of Villa Park

Final Engineering Plans/Permitting Process \$60,000 Restoration Project \$105,000

**\$** 165,000

Total Funding \$<u>1,520,000</u>

Given the importance of addressing the creek conditions before they deteriorate further and the potential to fund 85% of the project cost through grant funding, staff believes that it is appropriate for the Park District to advance these funds to the golf course to proceed.

Staff has met and discussed this with staff from the Village of Villa Park and the Village Board is currently considering the same.

#### RECOMMENDATION

That the Board of Park Commissioners (1) approve advancing \$60,000 from Tier 2 Cash & Investments in the Recreation Fund to the Golf Course Fund for Final Engineering & Permitting Services for the restoration of Sugar Creek and (2) authorizes the Executive Director to execute the Professional Services Agreement with Living Waters Consultants, Inc.

Thank you.

Attachment: Living Waters Consultants, Inc. - Sugar Creek Restoration Plan

## Sugar Creek Restoration Plan



## Sugar Creek Restoration Plan









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#### ELMHURST PARK DISTRICT BOARD OF PARK COMMISSIONERS MEMORANDUM

**DATE:** January 24, 2022

**TO:** Board of Park Commissioners

FROM: James W. Rogers, Executive Director

Brian McDermott, Director of Enterprise Services David Anderson, Division Manager - Golf Course

RE: SUGAR CREEK RESTORATION PROJECT FUNDING

#### **ISSUE**

With grant funding now able to be secured, the Sugar Creek Restoration Project can proceed with review and approval from the Board. This project addresses the Board's Strategic Work Plan Theme, Meet community need for parks, open space, and outdoor amenities.

#### **DISCUSSION**

On September 10, 2018, the Park Board approved the project to restore the eroding Sugar Creek (memo attached) and staff worked with a consultant on grant submittals, final engineering and permit applications. In March 2021, Sugar Creek Golf Course was notified of being offered the DuPage County Water Quality Improvement Program Grant. The acceptance of this grant was predicated on receiving the Illinois Environmental Protection Agency Grant 319 which occurred in September 2021. On the following pages are cost projections and proposed funds to be allocated to complete restoration of the creek.

**Total Cost Projection:** 

Final Bidding/Construction Observation/Grant Administration \$ 75,000.00 Restoration Project Cost 1,150,031.38

Total Cost \$<u>1,225,031.38</u>

#### **Proposed Funding:**

Grant Acceptance – FY2021/22

DuPage County Water Quality Improvement (WQIP) Grant \$ 60,000.00

Illinois Environmental Protection Agency (IEPA) Grant 319 \$ 612,515.69

Elmhurst Park District

Consulting \$12,500.00 Restoration Project \$171,671.90

Sub-total: \$ 184,171.90

Village of Villa Park

Consulting \$ 12,500.00

Restoration Project \$171,671.90

Sub-total: \$ 184,171.90

Sugar Creek Golf Course

Consulting \$ 12,500.00

Restoration Project \$171,671.90

Sub-total: \$<u>184,171.90</u>

Total Proposed Funding: \$1,225,031.39

In addition to, but separate from, the advance funding noted above to be added to the receivables owed to the Park District by the golf course, staff also recommends the District temporarily advance an additional \$672,515.68 from Tier 2 Cash Investments in the Recreation Fund to the Sugar Creek Golf Course fund to be reimbursed by the grants noted above once the project is completed. Attached are the FY2022 projections for Cash and Investments from the 2022 Budget illustrating that funds are available as recommended in the Recreation and Golf Course funds (page 53). All project funds will be accounted for in a restricted line item in the Golf Course Cash and Investments Fund.

#### **Project Construction Timeline**

Project begins Oct/Nov 2022
Majority of Work Completed by
Finalize Project March 2023
July 2023

Staff have met and discussed the project and proposed funding with staff from the Village of Villa Park and the Village Board is currently considering the same recommendations.

#### **RECOMMENDATION**

That the Board of Park Commissioners

- 1. Approve funding \$184,171.90 from Cash & Investments in the Sugar Creek Golf Course Fund for the restoration of Sugar Creek;
- 2. Approve advancing \$184,171.90 from Tier 2 Cash & Investments in the Recreation Fund to the Golf Course Fund for the restoration of Sugar Creek;
- 3. Approve advancing \$672,515.68 from Tier 2 Cash & Investments in the Recreation Fund to be reimbursed by grant proceeds;
- 4. Approve an Intergovernmental Agreement with DuPage County for WQIP grant;
- 5. Authorize the acceptance of the IEPA Grant 319;
- 6. Approve the Professional Services Agreement with Living Waters Consultants, Inc.;
- 7. Authorize the Executive Director to execute all documents accordingly.

Thank you.

Attachments: September 2018 Park Board Memo

**DuPage County IGA** 

Professional Service Agreement

2022 Cash and Investment Target Summary

#### **ELMHURST PARK DISTRICT**

2022 Sugar Creek Restoration Project / Bid Opening - Thursday, May 12, 2022

Submitted By	Bid Submission Checklist	Bid Security Attachment Required	Bid Proposal Form	Contractor Reference Sheet	Sub Contractor List	Sexual Harassment Policy	Substance Abuse Prevention Program Certification	Prevailing Wage Act	Contractor Compliance & Certification Attachment	Bid Proposal Required	TOTAL COST
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Date: 05/18/0000 Witnessed: 2 McJernott Date: 5/12/2022

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Concrete Revelment, Concrete Walls, Headwalls and Related Structures. Intact Concrete (Not Concrete Revelment) or Rock Rubble May Be Re-Used at Dam Modification Arcta to Receive Rock Lining Per Bild time # 13 (Max. 15 To Concrete / LF of Stream Channel, Distributed Across Width of Stream Channel, Within Rock Size Ranges Specified on Details for Rock Toe) as Base of Prop, Rock Toe in Any Locations Provided Concrete is Min. 1Ft Below Prop, Grade. Remove Exposed Vilve Meeh, Robar, Revertment, or Other Unsultable Materials.  Stream Channel West of Pond to Westerly Bridge: Re-Shape Streambank to 3:1 or Flatter (or Per Plans), Including NAG SC1508N Erosion Control Blankel, Native Plant Seed, and Native Plant Plugs per Plans, Details and Specifications.  Stream Channel West of Pond to Westerly Bridge. Re-Shape Streambank to 3:1 or Flatter (or Per Plans), Including NAG SC1508N Erosion Control Blankel, Native Plant Seed, and Native Plant Plugs per Plans, Details and Specifications.  Dispose of Excess Soli In Prop, Onsite Soli Disposal Area or Offsite at No Additional Cost to Owner or Engineer.  EF 730 \$26.00 \$18,980.00  Rook Toe at Stream Channel West of Pond to Westerly Bridge. (Typ. 0.3 Ton / LF. See Re-Shape Slope Bild Item for Erosion Blankel, Sedering, etc.). See Notes Below Re. Reuse of Concrete, Onsite Disposal of Concrete, Rubbish, and Rubble To Be Included Per Each Bild Item Unit Cost.  EF 730 \$25.00 \$29.575.00  From West of Pond to Westerly Bridge: Cut and Remove Exist. Sheet Pile Wall, Tleback Structures, Deadman Structures, Desire, Rubbish or Other Materials Including But Not Limited to Sheet Pile Wall, Wall Trebacks, Deadman Structures, Debris, Rubbish or Other Materials Including But Not Limited to Sheet Pile Wall, Wall Trebacks, Deadman Structures, Debris, Rubbish or Other Materials Including But Not Limited to Sheet Pile Wall, Wall Trebacks, Deadman Structures, Debris, Rubbish or Rubbis December Place Wall Provide Substantial Provide Substantial Provide Substantial Provide Substantial Provide Substantial						
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From West of Pond to Westerly Bridge: Cut and Remove Exist. Sheet Pile Wall, Tieback Structures, Deadmen Structures, or Other Appurtenances to Min. 1-ft below Proposed Grade. Remove and Dispose Either Offsite or in Prop. Onsite Disposal Area Exist. Debris, Rubbish, or Other Materials Including But Not Limited to Sheet Pile Wall, Wall Tiebacks, Deadman Structures, Debris, Rubbish or Rubbie Encountered During Proposed Excavation. All Debris and Rubbish Placed in Onsite Disposal, Area Shall be Buried Min. 1 Ft Below Prop. Grade. See Notes Below Re. Lesse of Concrete, Onsite Disposal, and/or Offsite Disposal of Concrete, Rubbish, and Rubble To Be Included Per Each Bid Item Unit Cost.    Provide Substantial Project Tree Removal. Stumps Shall Be Removed Except for Streambank Slopes. At Streambanks, Stumps Shall Remain Intact at Cutting and Subsequently Stumps Shall Be Removed As Needed by Contractor During Streambank Re-Grading and Streambank Stabilization Activities Per Plans.) Additional Trees Not Removed by Owner that are Required to be Removed by Contractor For Any Purpose Shall Be Removed at No Additional Cost to Owner or 18 Engineer.    Invasive Herbaceous Species Removal Throughout Work Limits.   LS	16	Erosion Blanket, Seeding, etc.). See Notes Below Re. Reuse of Concrete, Onsite Disposal, and/or Offsite Disposal of	15	455	¢65.00	¢20.575.00
or Other Appurtenances to Min' 1-ft below Proposed Grade. Remove and Dispose Either Offsite or in Prop. Onsite Disposal Area Exist. Debris, Rubbish, or Other Materials Including but Not Limited to Sheet Pile Wall, Wall Tiebacks, Deadman Structures, Debris, Rubbish or Rubble Encountered During Proposed Excavation. All Debris and Rubbish Placed in Onsite Disposal Area Shall be Buried Min. 1 Ft Below Prop. Grade. See Notes Below Re. Reuse of Concrete, Onsite Disposal, and/or Offsite Disposal of Concrete, Rubbish, and Rubble To Be Included Per Each Bid Item Unit Cost.  Invasive Species Removal  Removal of Trees As Needed for Contractor Construction and/or Invasive Shrub Species Within Work Limits. (Owner Shall Provide Substantial Project Tree Removal. Stumps Shall Be Removed Except for Streambank Slopes. At Streambanks, Stumps Shall Remain Intact at Cutting and Subsequently Stumps Shall Be Removed As Needed by Contractor During Streambank Re-Grading and Streambank Stabilization Activities Per Plans.) Additional Trees Not Removed by Owner that are Required to be Removed by Contractor For Any Purpose Shall Be Removed at No Additional Cost to Owner or Engineer.  Invasive Herbaceous Species Removal Throughout Work Limits.  LS 1 INCIDENTAL TO PROJECT COST  Native Plant Materials  Wetland Native Plant Seed  Wetland Native Plant Seed  Wetland Native Plant Seed at Pond and Restored Stream Channel  AC 0.51 \$6,500.00 \$3,315.00  \$4,650.00  \$6,525.00	10	Concrete, Rubbish, and Rubbie 10 Be included Fer Each Did Item Offit Cost.	LF	455	\$05.00	\$29,575.00
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21         Shoreline Native Plant Seed at Pond and Restored Stream Channel         AC         0.62         \$7,500.00         \$4,650.00           22         Middle / Upper Slope Native Plant Seed at Pond and Restored Stream Channel         AC         0.87         \$7,500.00         \$6,525.00		Native Plant Materials				
22 Middle / Upper Slope Native Plant Seed at Pond and Restored Stream Channel AC 0.87 \$7,500.00 \$6,525.00						
23 Shoreline Native Plant Seed - Along Inlet Stream Channel. However, Omit Tall species, S. pectinata, Elymus spp AC 0.08 \$15,000.00 \$1,200.00	22	Middle / Upper Slope Native Plant Seed at Pond and Restored Stream Channel	AC	0.87		\$6,525.00
· · · · · · · · · · · · · · · · · · ·	23	Shoreline Native Plant Seed - Along Inlet Stream Channel. However, Omit Tall species, S. pectinata, Elymus spp	AC	0.08	\$15,000.00	\$1,200.00

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24	Middle / Upper Bank Seed - Along Inlet Stream Channel Areas. However, Omit Tall Species. Act. Alt., Elymus spp.	AC	0.25	\$12,500.00	
25 26	Wetland Native Plant Plugs  Shoreline Native Plant Plugs - Pond	EA EA	2,532 6,708	\$4.99 \$4.99	
27	Shoreline Native Plant Plugs - Ford Shoreline Native Plant Plugs - for Restored Stream Channel (Berms)	EA	720	\$4.99	` ′
28	Middle / Upper Bank Native Plant Plugs - Restored Stream Channel (Berms)	EA	2,160	\$4.99	\$10,778.40
29	Shoreline Native Plant Plugs - For Inlet Streambank Channel	EA	730	\$4.99	\$3,642.70
30	Middle / Upper Bank Plugs - For Inlet Streambank channel	EA	2,190	\$4.99	* -,
31	Goose Grid - Wetland Only Native Trees (2.5-In. Diam. Caliper. installed)	AC EA	0.60 46	\$5,000.00 \$800.00	\$3,000.00 \$36,800.00
33	Native Shrub Whips (5-gal. installed)	EA	139	\$93.00	\$12,927.00
	Prop. Onsite Soil Disposal Area				
34	ONSITE SOIL DISPOSAL AREA TOPSOIL TEMP. STOCKPILE AND TOPSOIL RE-SPREAD: PRIOR TO EXCESS SOIL PLACEMENT, CONTRACTOR SHALL PROVIDE TOPSOIL STRIPPING, TYP. 0.5-FT TOPSOIL CUT DEPTH, AND TEMP. TOPSOIL STOCKPILE AT SOIL DISPOSAL SITE. AFTER PLACEMENT OF EXCESS SOIL FROM POND, WETLAND, AND STREAM PROJECT AREA, CONTRACTOR SHALL PROVIDE TOPSOIL RE-SPREAD, SOD INSTALLATION (SEE BID ITEM BELOW), AND RESTORATION OF ONSITE SOIL DISPOSAL AREA. HAULING AND DISPOSAL EQUIPMENT SHALL BE LOW-GROUND PRESSURE EQUIPMENT UNLESS APPROVED OTHERWISE IN WRITING BY OWNER AND ENGINEER. CONTRACTOR SHALL PROTECT EXIST. FENCING, POSTS, UTILITIES AND/OR OTHER INFRASTRUCTURE AT ALL TIMES. CONTRACTOR SHALL REVIEW DRAINAGE & IRRIGATION LAYOUT W/ GOLF COURSE SUPERINTENDENT PRIOR TO CONSTRUCTION.	CY	1,202	\$13.00	
	ONSITE SOIL DISPOSAL AREA SOIL DISPOSAL: CONTRACTOR SHALL PROVIDE TRANSPORT AND PLACEMENT OF EXCESS SOIL TO SOIL DISPOSAL AREA, DISKING AND/OR PREP. OF EXCESS SOIL AS NEEDED FOR INSTALLATION SATISFACTORY TO OWNER, AND RE-GRADING. PLACED SOIL SHALL BE MACHINE COMPACTED TO MIN. 80% STANDARD PROCTOR DENSITY IN MAX. 1-FT LIFTS. ALL DEBRIS AND RUBBISH PLACED IN ONSITE DISPOSAL AREA SHALL BE BURIED MIN. 1 FT BELOW PROP. GRADE WITH REMOVAL OF EXPOSED MESH, REBAR, OR OTHER MATERIAL. ALTERNATIVELY, CONCRETE, RUBBLE AND DEBRIS MAY BE DISPOSED OFFSITE AT NO ADDITIONAL COST TO OWNER OR ENGINEER. HAULING AND DISPOSAL EQUIPMENT SHALL BE LOW-GROUND PRESSURE EQUIPMENT UNLESS APPROVED OTHERWISE IN WRITING BY OWNER AND ENGINEER. CONTRACTOR SHALL PROTECT EXIST. FENCING, POSTS, IRRIGATION, STORM DRAIN, UTILITIES AND/OR OTHER INFRASTRUCTURE AT ALL TIMES. CONTRACTOR SHALL REVIEW DRAINAGE & IRRIGATION LAYOUT W/ GOLF				
35	COURSE SUPERINTENDENT PRIOR TO CONSTRUCTION.  Onsite Soil Disposal Area: Double Row Silt Fence Around Soil Disposal Area Perimeter and Silt Fence Along Access	LS	1	\$33,000.00	
36	Onsite Soil Disposal Area: Double Row Silt Fence Around Soil Disposal Area Perimeter and Silt Fence Along Access Route. Outer Row Silt Fence Shall be High Visibility Material.	LF	3,916	\$3.80	
37	TURF SEED RESTORATION OF <u>ACCESS ROUTE</u> TO ONSITE SOIL DISPOSAL AREA TO BE SEEDED: CONTRACTOR SHALL PROVIDE <u>RESTORATION OF DISTURBED ACCESS ROUTE</u> AND/OR OTHER AREAS, INCLUDING BUT NOT LIMITED TO SITE CLEANUP, SEEDBED PREP. PER SPECIFICATIONS, RE-SEEDING, AND EROSION BLANKET (NAG S75 BN). <u>Note: Golf Course Owner Shall Provide and Install Turf Grass Seed Mix Per Specifications.</u> Contractor Shall Provide All Other Materials and Services Including But Not Limited to Installation of Erosion Blanket.	SY	1,638	\$3.00	
38	SOD RESTORATION AT GOLF COURSE DRIVING RANGE USING SOD: RESTORATION WITHIN THE FENCED PERIMETER BOUNDARIES OF GOLF COURSE DRIVING RANGE SHALL INCLUDE SODDING (NO SEEDING). SOD SHALL BE TURE TYPE TALL FESCUE FROM CENTRAL SOD OR PAYNE SOD FROM WITHIN A 200 MILE RADIUS. SOD SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY GOLF COURSE SUPT. SEE SOD RESTORATION SPECIFICATIONS. INCLUDES ONE INITIAL WATERING WITHIN TWO HOURS OF LAYING SOD, SOD SHALL BE WATERED TO THOROUGHLY SATURATE THE SOD AND THE SOIL BED USING OWNER'S SUPPLIED 40 GPM HOSE.	SY	7,214	\$17.00	
38 b	SOD WATERING: ADDITIONAL WATER SHALL BE APPLIED TO THOROUGHLY RE-WET SOD AND SOIL BED EVERY OTHER DAY FOR TWO WEEKS FOR A TOTAL OF 6 SEPARATE ADDITIONAL WATERINGS. THE SCHEDULE OF ADDITIONAL WATERINGS MAY BE ALTERED WITH THE APPROVAL OF THE ENGINEER. THE GOLF COURSE SHALL SUPPLY ACCESS TO WATER, ONE 1" HOSE WITH A 40 GPM CAPACITY TO REACH THE SODDED AREA, AND ONE HIGH FLOW NOZZLE FOR WATERING. APPROX. 5 HOURS PER ACH OF 6 WATERING EVENTS (30 HR).  Other	HR	30	\$65.00	
39	Native Plant Maintenance per Specifications.	YR	3	\$8,900.00	\$26,700.00
40	Tree Protection - Per Detail # 20 (9 Trees)	LF	135	\$3.53	\$476.55
	Double Row Silt Fence at Stockpile Areas and/or Where Indicated on Plans. Outer Row Silt Fence Shall be High Visibility Material. (See Separate Bid Item for Silt Fence Along Access Route to Soil Disposal Area and Silt Fence at Driving Range				
41	Soil Disposal Area.)	LF	508	\$8.15	
42	Stabilized Construction Entrance (As Many As May Be Required by Permit Agencies)	LS	1	\$3,800.00	\$3,800.00
43	Install Rock Lining at Exist. PVC Storm Pipe Outfall and/or FES Structures At or Larger Than 12-In. Diam. Per Details. Assumes 2 Storm Outfall Pipe Locations. (No Work Proposed at Exist. RCP Storm Pipe Outfall at Villa Avenue.)  Install and Bury Drain Tile Extensions at Exist. Drain Tile, Using ADS N-12 ST 1B Corrugated, Smooth Interior, Double Wall HDPE Drain Tile. Drain Tile Diam. Typ. 4-in. to 6-in. Diam. Extend Drain Tile to Proposed Edge of Water. Drain Tile Shall Meet AASHTO M252 Type S Standards.	TON LF	300	\$250.00 \$33.00	\$1,000.00 \$9,900.00
	Install and Bury Drain Tile Extensions at Exist. Drain Tile, Using ADS N-12 ST 1B Corrugated, Smooth Interior, Double Wall			¥3333	+ - ,
45	HDPE Drain Tile. Drain Tile Diam. Typ. 8-in. to 10-in. Diam. Extend Drain Tile to Proposed Edge of Water. Drain Tile Shall Meet AASHTO M252 Type S Standards.	LF	60	\$43.00	\$2,580.00
46	Install ADS N-12 ST 1B Corrugated, Smooth Interior, Double Wall HDPE Drain Tile for All Extensions of Exist. HDPE Drain Tile. Drain Tile Diam. Typ. 12-in. Diam. Extend Drain Tile to Proposed Edge of Water. Drain Tile Shall Meet AASHTO M294 Type S standards.	LF	20	\$63.00	\$1,260.00
	Coffer Dam and Pumping to Dewater Construction Area to Meet Requirements of Kane-DuPage SWCD and Other Permit Agencies As Required. Contractor Shall Be Responsible to Obtain Permit Approval with Kane-DuPage SWCD and Other		1		
47	Permit Agencies as Required.  Temporary Stream Crossing(s) as Necessary and as Approved by Kane-DuPage SWCD, by Other Relevant Permit Agencies, by Owner and by Engineer for Constitution Access Needed. No Additional Compensation for Stream Crossings	LS	1	\$28,000.00	\$28,000.00
48	Shall Occur. Contractor Shall Be Responsible to Coordinate w/ All Relevant Permit Agencies and to Obtain All Relevant Permit Approvals.	LS	1	\$11,550.00	\$11,550.00
49	Contractor to Obtain Final Permit Approval and Coordination for Temp. Stream Crossing, De-Watering / Coffer Dams, and/or Other Soil Erosion and Sediment Control Through Kane-DuPage SWCD and/or Other Permit Agencies As Required.	LS	1	INCIDENTAL TO PROJEC	T COST
	Other Than As Described for All Other Bid Items, For All Project Locations Shallow Concrete Or Rock Rubble As May Be Encountered In Shoreline Or Streambank Construction May Be Re-Used (Max. 0.1 Ton / Lf Concrete Within Rock Size Ranges Specified On Details For Rock Toe) As Base Of Prop. Rock Toe In Any Locations Provided Concrete Is Min. 1 Ft Below Prop. Grade And Any Exposed Wire Mesh, Rebar, Or Other Unsuitable Materials Are Removed. Alternatively, Concrete, Rubbish, Or Rubble May Be Disposed Onsite In The Designated Soil Disposal Area, Per Plans. All Debris And Rubbish Placed In Onsite Disposal Area Shall Be Buried Min. 1 Ft Below Prop. Grade With Removal Of Exposed Mesh, Rebar, Or Other Material. Alternatively, Concrete, Rubble And Debris May Be Disposed Offsite At No Additional Cost To Owner Or Engineer. Cost For Disposal Of Concrete, Rubbish, And Rubble As May Be Encountered Shall Be Incidental To				
50	Each Respective Bid Item Unit Cost.	LS	1	INCIDENTAL TO PROJEC	T COST
51 52	Other Than As Described for All Other Bid Items Including But Not Limited to # 6 and # 17 Above, For All Other Project Areas: Cut and/or Remove Exist. Sheet Pile Wall, Tieback Structures, Deadmen Structures, or Other Appurtenances to Min. 1-ft below Proposed Grade. Remove and Dispose Either Offsite or in Prop. Onsite Disposal Area Exist. Debris, Rubbish, or Other Materials Including But Not Limited to Sheet Pile Wall, Wall Tiebacks, Deadman Structures, Debris, Rubbish or Rubble Encountered During Proposed Excavation. All Debris and Rubbish Placed in Onsite Disposal Area Shall be Buried Min. 1 Ft Below Prop. Grade. See Notes Below Re. Reuse of Concrete, Onsite Disposal, and/or Offsite Disposal of Concrete, Rubbish, and Rubble To Be Included Per Each Bid Item Unit Cost.  Other Soil Erosion and Sediment Control to Comply w/ SESC Requirements of Kane-DuPage SWCD and Other Relevant Permit Agencies as Required.	LS LS	1	SEE RESPECTIVE BID ITE	EMS / INCIDENTAL TO PR \$1,850.00
	Contractor to Provide Construction Access Restoration, Site Cleanup, Seedbed Prep., Erosion Blanket (NAG S75 BN) and Other Requirements per Specifications for All Native and Turf Restoration Areas. Contractor to Furnish and Install Native				
53	Plant Seed. (Note: Golf Course Supt. Shall Furnish and Install Turf Grass Seed Mix in Turf Restoration Areas Prepared by Contractor to be Seeded.) Contractor Shall Provide All Other Materials and Services for Restoration Except as Noted.	SY	3955	\$1.20	\$4,746.00
	Plant Seed. (Note: Golf Course Supt. Shall Furnish and Install Turf Grass Seed Mix in Turf Restoration Areas Prepared by Contractor to be Seeded.) Contractor Shall Provide All Other Materials and Services for Restoration Except as Noted.  Contractor Shall Protect Exist. Asphalt Paths, Parking Lots, Curb, Gutter, Utilities and/or Other Areas & Repair or Replace		3955		,
53 54 55	Plant Seed. (Note: Golf Course Supt. Shall Furnish and Install Turf Grass Seed Mix in Turf Restoration Areas Prepared by Contractor to be Seeded.) Contractor Shall Provide All Other Materials and Services for Restoration Except as Noted.	SY LS YR	3955 1 3	\$1.20 INCIDENTAL TO PROJEC \$13,888.00	тсоѕт

56	SWPPP Reporting As Required (cc: to Owner and Engineer) Throughout Construction Time Period.	LS	1		\$1,500.00	\$1,500.00
57	Pre-Construction Video per Bid Addendum # 1	LS	1	INCIE	DENTAL TO PROJECT	COST
58	Traffic Control, Signage, Flaggers, Closure, Traffic Control Plan (If Required) etc. As Required by Permit Agencies.	LS	1	INCIE	DENTAL TO PROJECT	COST
59	As-Built Survey (At Minimum Locations of Installed Treatments, Re-Graded Slopes Every 50-ft Spacing, Riffles, Weir Vicinity, and All Cross Sections) and/or Other Locations as Required by DuPage County and/or Village of Villa Park.	LS	1		\$3,600.00	\$3,600.00
					BASE BID	\$737,031.95

TABLE 2: BID					SEMPER FI	
Item	Descriptions   General Site / Pond / Wetland / Stream Restoration	Unit	QUANTITY	1	Unit Cont	EVTENDED COST
	General Site / Pond / Wetland / Stream Restoration				Unit Cost	EXTENDED COST
	Option for Offsite Disposal of Excess Cut Soil at a Legal Offsite Facility. Includes Offsite Disposal of Debris, Rubbish,					
101	and/or Unusable Material (Cost is Lump Sum; Est. Net Cut In-Situ 5,000 CY x \$33.00/CY = \$165,000)	LS	1		\$162,500.00	\$162,500.00
101	Grade Character material (Cook to Early Carry, Lot. Fet Out in Cita 6,000 C). A \$600,000 C)				¥102,300.00	Ψ102,000.00
102	CCDD Testing As Required to Allow Offsite Disposal of Dredged Sediment at a Legal Offsite Facility.	LS	1		\$3,600.00	\$3,600.00
	Import of Clean Structural Clay Fill, Tested and Approved by Owner and Engineer, for Construction of Proposed Berms or					
103	Other Structures. Subject to Review and Approval by Owner and Engineer.	CY	2,000		\$26.77	\$53,540.00
	Import of Clean Topsoil, Tested and Approved by Owner and Engineer, for Final Landscaping. Subject to Review and					
104	Approval by Owner and Engineer.	CY	807		\$39.58	\$0.00
105	Boulder Placement (18" – 24")	TON	15		\$388.00	\$5,820.00
100	Additional Cost per Ton for Base Bid and Bid Alt. Items For Riffles, Rock Overflow Structures, Rock Toe, Storm Pipe	1011	10		\$388.00	ψ0,020.00
	Outfalls, and Other Rock: Replace IDOT Class Rock with Similar Size Distribution of Joliet Boulders and Joliet Cobble from					
106	Lemke Stone or Approved Equal.	TON	1,803		\$80.00	\$0.00
107	Straw Mulch for Erosion Control	AC	0.50		\$3.800.00	\$0.00
	Rock Points (Rock Toe Adjacent - 5 Structures - Locations at Discretion of Owner and Engineer Along Re-Meandered		2.00		\$5,555.00	<del>40.00</del>
108	Channel)	TON	3		\$180.00	\$0.00
	,		Ĭ		<b>\$1.03.00</b>	<del>40.00</del>
	Streambank Native Plant Seeding, Removal of Invasive Species, Seedbed Prep., & Erosion Blanket NAG SC150 BN. (Typ.					
109	25-Ft Wide per Streambank)	LF	1,521		\$9.00	\$0.00
	Rock Riffle Typ. Along Sugar Creek West of Pond to Near Villa Ave. (2 Structures 1 Structure). Includes Cut and Remove					
110	Exist. Sheet Pile Wall and Re-Shape Slope Adjacent.	TON	40		\$113.00	\$4,520.00
	Additional Rock Toe for Relatively Steeper Pond Shoreline Areas					
	Rock Toe Stabilization (Typ. 0.3 Ton / LF) for Relatively Steep-Sloped Pond Shoreline Areas Such As Near Exist. Irrigation					
444	Pump House, South Shoreline East of Riffle # 4, and Other Areas. See Notes Below Regarding Re-Use of Max. 0.1 Ton/LF	LF	700		400.00	Φ74.407.00
(111)	Concrete as Subgrade for Rock Toe.  Far West Inlet Channel - From Westerly Bridge Crossing Near Maint. Building to Villa Ave.	LF	796		\$93.20	\$74,187.20
	r at west finet channel - From westerly bridge crossing wear maint. Building to vina Ave.					
	From Westerly Bridge to Villa Avenue: Re-Shape Streambank to 3:1 or Flatter (or Per Plans), Including NAG SC150BN					
	Erosion Control Blanket, Native Plant Seed, and Native Plant Plugs per Plans, Details and Specifications. See Notes Below					
	Re. Reuse of Concrete, Onsite Disposal, and/or Offsite Disposal of Concrete, Rubbish, and Rubble To Be Included Per	LF	705		0.40.00	004 475 00
112	Each Bid Item Unit Cost.	LF	725		\$43.00	\$31,175.00
	Rock Toe (Typ. 0.3 Ton / LF. See Re-Shape Slope Bid Item for Erosion Blanket, Seeding, etc.) See Notes Below					
	Regarding Re-Use of Max. 0.1 Ton/LF Concrete Within Rock Sizes Specified on Detail, or Onsite Disposal. See Notes Below Re. Reuse of Concrete, Onsite Disposal, and/or Offsite Disposal of Concrete, Rubbish, and Rubble To Be Included					
	Per Each Bid Item Unit Cost.	LF	490		\$93.20	\$45,668.00
110		LI	490		\$93.20	φ45,000.00
	West of Westerly Bridge Crossing Near Maint. Building: Cut and/or Remove Exist. Sheet Pile Wall, Tieback Structures,					
	Deadmen Structures, or Other Appurtenances to Min. 1-ft below Proposed Grade. Remove and Dispose Either Offsite or in					
	Prop. Onsite Disposal Area Exist. Debris, Rubbish, or Other Materials Including But Not Limited to Sheet Pile Wall, Wall Tiebacks, Deadman Structures, Debris, Rubbish or Rubble Encountered During Proposed Excavation. All Debris and					
	Rubbish Placed in Onsite Disposal Area Shall be Buried Min. 1 Ft Below Prop. Grade. See Notes Below Re. Reuse of					
	Concrete, Onsite Disposal, and/or Offsite Disposal of Concrete, Rubbish, and Rubble To Be Included Per Each Bid Item					
114	Unit Cost.	LF	90		\$38.00	\$3,420.00
					,	1.7
115	From Westerly Bridge to Villa Avenue: If Needed by Contractor, Remove Trees As Required to Re-Grade and Install Proposed Streambank Stabilization Treatments and Proposed Grades.	LS	1		INCIDENTAL TO PROJECT	COST
116	Shoreline Native Plant Seed - Inlet Channel	AC	0.08		\$15,000.00	\$1,200.00
117	Middle / Upper Bank Seed - Inlet Channel	AC	0.08		\$15,000.00	\$4,950.00
118	Shoreline Native Plant Plugs - Inlet Channel	EA	725		\$6.00	\$4,350.00
119	Middle / Upper Bank Plugs - Inlet Channel	EA	2,175		\$6.00	\$13,050.00
120	Construction Access Restoration, Site Cleanup, and Erosion Blanket (NAG S75 BN)	SY	967		\$3.98	\$3,848.66
121	Cabled Log Habitat Structure, per Detail # 24. (Log materials to be provided by Owner.)	EA	7		\$2,300.00	\$16,100.00
			L		BID ALTERNATES	\$427,928.86

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 Total Cost (Base Bid & Bid Alternates)
 \$1,164,960.81

Bid Alternate Recommended to Add

Shoreline Native Plant Plugs - Inlet Channel Add # 118 Middle / Upper Bank Plugs - Inlet Channel Add # 119

Note: See Bid Addendum # 2, Item 2.g., regarding excavation for onsite clay within or adjacent to project site.

- a) Services related to removal of excess soil, trees, or tree stumps associated with earthwork, stabilization practices, re-grading, or installation of other practices
- and disposal or placement into areas approved by Owner shall be provided by Contractor at a cost incidental to each stabilization practice unit price.
- b) Earthwork Including Excavation, Grading, Stockpiling, Clearing, Grubbing, Off-Site Disposal of Cleared and Grubbed Materials, Topsoil Re-Spread, Fill, Balance of Earthwork On-Site, and/or Related Items as Indicated on Plans, Details and Specifications shall be incidental to the cost of earthwork.
- c) Bidder is required to verify field conditions and Bid Quantities on Bid List prior to submittal of Bid.
- If Bidder is at variance with field or Plan quantities or other items, then Bidder shall inform Engineer prior to submittal of Bid.

  If the calculations of the Bidder indicate a Quantity for any Bid Item different than that indicated on the Bid List, then the Bidder's proposed Quantity shall be
- clearly marked on the Bidder's Proposal Response Form. Specific Quantities shall be required.

  f) Submittal of a qualified bid by Bidder indicates acceptance by the Bidder and approval of field conditions, quantities, details, and related conditions
- as depicted on Plans, Specifications, Details and/or other Bid Documents.
- g) Contractor provide site layout staking and shall meet with Engineer in field to review site layout prior to construction.
- h) Quantities as indicated may be increased or reduced by the Owner at their discretion. i) Actual quantity of rock installed in field may vary with field conditions.
- j) Costs provided by Contractor and/or Bidder shall include furnishing and installing all items as described above.
- k) Native plant maintenance costs shall be paid in increments per each seasonal site visit as described in Specifications for Native Plant Maintenance.

  I) Whether the As-Built Survey Bid Item is selected by the Owner or not, Contractor shall be responsible to ensure that as-built grades and
- Whether the As-Built Survey Bid Item is selected by the Owner or not, Contractor shall be responsible to ensure that as-built grades and sections are consistent with the proposed grades and sections to the satisfaction of the permitting agencies.
- m) Re-Use of Excavated Clay Soil Materials for Construction of Off-Bank Berms Is Subject to Review and Approval by Engineer and Owner.

  n) Shallow Concrete Or Rock Rubble As May Be Encountered In Shoreline Or Streambank or Other Construction May Be Re-Used For Rock Toe (Max. 0.1 Ton / Lf Concrete Within Rock Size Ranges Specified On Details For Rock Toe As Base Of Prop. Rock Toe In Any Locations) or Subgrade of Rock Riffle (Max. 1.25 Ton Concrete / LF of Stream Channel at Proposed Riffle Locations,
- Distributed Across Width of Stream Channel at Riffle), Provided Concrete Is Min. 1 Ft Below Prop. Grade And Any Exposed Wire Mesh, Rebar,
  Or Other Unsuitable Materials Are Removed. Alternatively, Concrete, Rubbish, Or Rubble May Be Disposed Onsite In The Designated Soil Disposal Area, Per Plans.
  All Debris And Rubbish Placed In Onsite Disposal Area Shall Be Buried Min. 1 Ft Below Prop. Grade With Removal Of Exposed Mesh, Rebar, Or Other Material. Alternatively, Concrete,
- Rubble And Debris May Be Disposed Offsite At No Additional Cost To Owner Or Engineer. Cost For Disposal Of Concrete, Rubbish, And Rubble As May Be Encountered Shall Be Incidental To Each Respective Bid Item Unit Cost.
- o) Contractor Shall Provide As-Built Survey for Review by Owner and Engineer to Verify As-Built Grades, Including Pond Construction, Within 45 Days of Substantial Completion of Construction and Prior to Final Payout(s).