SUBJECT: Award of Proposal No. 20-077P, Design Central Mat-Su Emergency Services Training Complex Improvements to CRW Engineering Group, LLC, for the contract amount of \$146,070.00.

AGENDA OF: March 17, 2020

ATTACHMENT(S): Fiscal Note:

of Services" for further detail.

| | derection filed: 4-7-20. Reconsideration : 4-21-20 Main motion passed assembligmenter mcket opposed |
|----------------------------------|---|
| MANAGER considera APPROVED | recommendation: Present to the assembly fo ion. Y JOHN MOOSEY BOROUGH MANAGER: |
| Route To: | Department/Individual Initials Remarks |
| E . | Purchasing Officer |
| | Capital Projects Director |
| | Finance Director |
| | Borough Attorney |
| | Borough Clerk Bon Frem 185 3.40-3 |
| | |

SUMMARY STATEMENT: On December 5, 2019, the Matanuska-Susitna Borough Purchasing Division issued a solicitation requesting Proposals from qualified firms for A/E firms for the design services of various improvements within the Central Mat-Su Emergency Services Training Complex located at the intersection of Knik-Goose Bay Road and Vine Road see attached "Description

Description of Services (11p)

Yes X No

In response to the advertisement, two proposals were received. A proposal evaluation team made up of Borough Project Management and Emergency Services staff evaluated the proposals and selected CRW Engineering Group, LLC as the most advantageous firm for the Borough.

The period of performance begins upon execution and ends on March 26, 2021.

AM No. 20-019 Page 1 of 2

The Capital Projects Department, Project Management Division will be administering the contract.

In accordance with MSB 3.08.170(B), Administration requests authority to modify the resulting contract completion date by 30 days for unforeseen circumstances.

RECOMMENDATION OF ADMINISTRATION: Award of PROPOSAL NO. 20-077P, DESIGN CENTRAL MAT-SU EMERGENCY SERVICES TRAINING COMPLEX IMPROVEMENTS to CRW ENGINEERING GROUP, LLC. for the contract amount of ONE HUNDRED FORTY SIX THOUSAND SEVENTY AND 00/100 DOLLARS (\$146,070.00).

Page 2 of 2 AM No. 20-019

MATANUSKA-SUSITNA BOROUGH FISCAL NOTE

Agenda Date: March 17, 2020

SUBJECT:

Award of Proposal No. 20-077P, Design Central Mat-Su Emergency Services Training Complex Improvements to CRW

Engineering Group, LLC., for the contract amount of \$146,070.00.

| ORIGINATOR: Purchasir | ng | | | | | |
|------------------------------|--------------------|-----------|-----------------------|---------------|-----------|----------|
| FISCAL ACTION (TO BE | COMPLETED BY F | INANCE) | FISCAL IM | PACT (YES) NO | | |
| AMOUNT REQUESTED | \$146,070° | 50 | FUNDING | SOURCE FS/ | 2 Capital | Projects |
| FROM ACCOUNT # 40 | 15,000,000 | 2,4xx,xxx | PROJECT # | SOURCE 75 K | 600-6600 | + |
| TO ACCOUNT: | | | PROJECT # | | | |
| VERIFIED BY: Yus | el (1) oila | n ol | CERTIFIED | DBY: | | |
| DATE: 03-05-20 | 020 | | DATE: | | | |
| EXPENDITURES/REVENUES: | | | (Thousands of Dollars | s) | | |
| OPERATING | FY2020 | FY2021 | FY2022 | FY2023 | FY2024 | FY2025 |
| Personnel Services | | | | | | |
| Travel | | | | 2 | | |
| Contractual | | | | | | |
| Supplies | | | | | | |
| Equipment | | | | | | |
| Land/Structures | | | | | | |
| Grants, Claims | | | | | | |
| Miscellaneous | | | | | | |
| TOTAL OPERATING | | | | | | |
| CAPITAL | 146 | | | | | |
| REVENUE | | | | | | |
| UNDING: | | | (Thousands of Dollar | rs) | | |
| General Fund | | | 9 | | | |
| State/Federal Funds | | | | | | |
| Other | 146 | | | | | |
| TOTAL | 146 | | | | | |
| POSITIONS: | | | | | | |
| Full-Time | | | | | | |
| Part-Time | | | | | | |
| Temporary | | | | | | |
| ANALYSIS: (Attach a separate | page if necessary) | | | | | |
| PREPARED BY: | | | | PHONE: | | |
| DEPARTMENT: | A Char | 1 | | DATE: | 0/10/- | an A |
| APPROVED BY: | lefens | e He | M | DATE: | 256 | (2)() |



808 S Bailey Street, Suite 104 Palmer, Alaska 99645 office (907) 707-1352 | fax (907) 561-2273

www.crweng.com

February 14, 2020

Mr. Robert Scott, Construction Project Manager II Mat-Su Borough Capital Projects 350 East Dahlia Ave. Palmer, AK 99645

Subject:

Central Mat-Su Emergency Services Training Complex Improvements

Design and Construction Administration

Dear Mr. Scott:

We are pleased to submit a fee proposal for providing engineering and professional services for the Central Mat-Su Emergency Services Training Complex (ESTC) Improvements project. Attached for your review is our fee estimate with a breakdown of specific tasks associated with this project.

The primary components of CRW's scope of work are summarized below and are based on recent conversations with you and the objectives and services identified in our proposal:

- Incorporate the pre-engineered, modular-type fire training building specified in the RFP as the basis of design.
- Design a retaining wall.
- Produce a site and grading plan for training pad.
- Extend fire protection water piping to the training area.
- Power extension to training pad and site lighting.
- Prepare design documents for construction.
- Provide bidding and construction administration services.

SCOPE OF WORK

Task 1 - Project Initiation

Site Visit - The civil engineer will walk the project site to become more familiar with the existing site conditions and identify any constrains that may affect the project design or construction. We will review the drawings of the Fire Station 6-2 project and compare them to what was recently constructed near the project area to identify any inconsistencies that would impact the ESTC project. We understand the Fire Station 6-2 project is complete and no further improvements are expected. The engineer will review the undisturbed forested area of the project site to identify any special features that may influence the design and identify specific areas for which the ground-based survey may collect detailed data.

Task 2 - Topographical Survey

A ground-based survey is necessary to map topographical features, ground elevations, and other site information within the expected footprint of the project. The collected field data will be processed to prepare a basemap of the existing conditions for use in the site civil team's detailed design. Topographical data needed beyond the ground-based survey limits may be supplemented with MSB GIS and LiDAR data to show a larger area surrounding the project site. The complete basemap will include property boundaries, on-site driveways, adjacent roadways, forested areas, existing grade contouring at 2-foot intervals, and other pertinent information. This work includes the preparation of a survey control sheet that will be included in the Final Design Documents.

Task 3 - Design Phases (Includes Tasks 3A through 3C)

50% Design – This effort includes the necessary steps to analyze constraints and develop design documents including the following:

- Prepare basic architectural floor plans to present information needed for permitting and bidding purposes. The 'Hall Crawler' training building module per Fire Facilities, Inc. Steel Training Towers is the basis of the building design.
- Develop a detailed site and grading plan for the new pad that will support the training building module. All paved areas supporting vehicular traffic will be designed to support tire loading of the emergency vehicles apparatuses. The heaviest apparatus is expected to be 84,000 pounds.
- Evaluate and define the extension of the piped water system (training water) to the
 proposed pad. The piped water system extension will include two fire hydrants spaced
 at opposite sides of the pad. The connection point where the new piped system will
 begin is based on the Water or Utility Plans prepared for the recent Fire Station 6-2
 project.
- Electrical design includes power extension to the new training pad for site lighting and lighting within the building. Two luminaires will be placed on opposite ends of the new training pads and interior lighting consists of burn resistant fixtures. Power outlets are also requested on the exterior and/or interior of the training building.
- The mechanical design will include a plumbing plan showing multiple floor drains and connective piping within the training building to collect and convey training water to a single outlet pipe. The civil design will continue the outlet pipe to a final discharge location away from the building pad.

- Develop a structural foundation plan to support the training building module. The foundation design will be based on footprint and loading reactions generated by Fire Facilities, Inc. for the Hall Crawler building.
- Prepare a retaining wall design with the purpose of creating a split-level, walk-out basement configuration for the two-story training building. The retaining wall will allow the surrounding grade to be built-up to the 2nd floor for at-grade access by training personnel. The spacing between the training building and retaining wall will allow passage of personnel for training purposes. This task includes evaluation of up to three different types of retaining walls that will provide long term durability and accommodate water infiltration dispersed during training activities.
- Prepare and submit the Fire Marshall permit and resolve comments.
- Define requirements for excavating and grading the local borrow site. Requirements will include a detailed Mining, Erosion Control and Restoration Plan to be generated by the contractor.
- Attend review meeting with MSB/Fire Department personnel to discuss stakeholder comments.
- Prepare technical specifications using CSI format for the training building, electrical and mechanical designs. Site civil specifications will use Alaska Department of Transportation and Public Facilities 2015 with MSB standard modifications and project special provisions.

Pre-Final Design Documents – Refine the drawings and specifications and resolve stakeholder-generated comments.

Final Design Documents – Finalize design drawings and specifications for a bid-ready package.

Design Verifications/Review – Drawings and specifications prepared for this project will be reviewed in depth by CRW's quality assurance (QA) team to confirm the appropriate level of completeness, accuracy, and general discipline coordination before each formal submission to the MSB and Fire Department.

Construction Cost Estimates - A statement of probable construction costs (SPCC) will be provided to MSB for the 50%, Pre-Final, and Final submittals to verify the construction cost is within project funding limits. If needed, the project will remove improvements or implement

Emergency Services Training Complex Mr. Robert Scott February 14, 2020

additive alternates into the drawings to maximize the scope if the estimated construction cost is close to the construction budget.

Task 4 - Permitting and Bidding

Agency Permits - CRW will prepare and submit the application for approval to the following agency:

- > State Fire Marshall. This permit is required for review of the project's life safety considerations related to the training building.
- Review fee will be paid directly by MSB.

Bidding Phase – CRW will support MSB during the bidding phase of the project. Bidding support tasks include:

- Attend Pre-Bid Meeting: Attend up to one meeting at the MSB office during the open advertisement period to discuss project.
- Bidder Questions and Addenda: CRW will respond to bidder questions for responses in addenda.

<u>Task 5 – Construction Administration</u>

Construction Services – Construction services are assumed to begin at the award of the construction contract. For the purposes of the fee proposal we have assumed a 4-month duration of active construction over two seasons (Fall 2020 and Spring 2021), from Contractor award to final acceptance of the Work. We will promptly respond to requests for assistance during construction, and proactively observe the work during construction. Construction support tasks include review of submittals, review and respond to field memos, site visits, final inspections, and development of record drawings.

We assume weekly site visits will be performed to observe construction progress and report on the findings. Meetings with the contractor will occur at the project site or at the CRW Palmer office, and be held once a week during intensive work conditions or every other week as the need for coordination reduces and project pace slows. On-site meetings will address current and expected project issues and coordinate on other project related matters as needed. Milestone site visits will also be made for pre-final and final inspections and warranty period inspection.

Record Drawings – CRW will prepare record drawings in electronic format once the contractor has provided red-lined drawings depicting all the changes made during the course of construction.

II. DELIVERABLES

Deliverables for the project will include:

- <u>Task 1 Project Initiation:</u>
 - o None.
- <u>Task 2 Topographical Survey:</u>
 - o None.
- Task 3 Design Phases:

50% Design, Pre-Final, and Final Design Phases

- o Drawings: One electronic PDF copy and three bound 11x17 hardcopies.
- o Specifications: One electronic PDF copy and three bound hardcopies.
- o Construction Cost estimate (50%, Pre-Final and Final design phases): One electronic PDF copy and one hardcopy.
- Task 4 Permitting and Bidding:
 - o Permitting:
 - Copy of application submitted to the State of Alaska Fire Marshall in PDF format.
 - Email correspondence with permitting agency in PDF format.
 - o Bidding Phase: Response to questions and addenda in PDF format.

• <u>Task 5 – Construction Administration:</u>

- Construction Services: Response to contractor questions, submittals, Field Memos, and other supporting construction documentation in PDF format. Field reports in PDF format generated after site observations to document construction progress.
- o Record Drawings: PDF format and AutoCad drawings in 2016 format.

Emergency Services Training Complex Mr. Robert Scott February 14, 2020

III. SCHEDULE

We understand the March 17, 2020 MSB Assembly meeting will review and approve funding for the design and construction of the ESTC project. Upon successful approval by the MSB Assembly, written Notice to Proceed (NTP) will be issued to CRW on March 19, 2020. The dates identified in the schedule below are in relation to the NTP date, and would shift according to the actual date that the NTP is given. The overall project schedule will strive for submitting final design documents by July 20, 2020 with advertisement for construction late summer of 2020.

- NTP: March 19, 2020.
- Topographical Survey: 11 days after receipt of NTP, March 30, 2020.
- 50% Design Submittal: 64 days after NTP, May 22, 2020.
- MSB Review Period: 14 days after submission of design documents, June 5, 2020.
- Pre-Final Submittal: 21 days after 50% documents review meeting or receipt of written MSB comments, June 26, 2020.
- Fire Marshall Permit Submittal: 3 days after submission of design documents, June 29, 2020.
- MSB Review Period: 7 days after submission of design documents, July 3, 2020.
- Final Submittal (Construction Documents): 17 days after Pre-Final documents review meeting or receipt of written MSB comments, July 20, 2020.

IV. FEE AND TERMS

Other assumptions that form the basis of our proposal are indicated on the attached fee estimate spreadsheet.

Our estimated fee is \$146,070 for the design, permitting, and construction administration phases of work. The Basic Services work would be performed on a lump sum price basis in accordance with a contract made between MSB and CRW.

If you have any questions, please feel to contact me by phone or email.

Best Regards,

CRW Engineering Group, LLC

Much Schonny

Micah Schoming, PE Project Manager

| | | S | W Eng | CRW Engineering Group | g Grou | d | | | | nS | Subconsultants | ts | | |
|--|-----------|--------------------|---------------------|-----------------------|-----------------|-----------------|-----------------|----------|----------|----------------------|--------------------|-----------------------|----------|------------------------------|
| CRW Engineering Group, LLC February 2020 | Principal | Senior Engineer | Registered Engineer | Engineer EIT | Senior Designer | Senior Surveyor | Instalas AnimbA | Istotd | Exbeuses | Burkhart Croft Arch. | HMS Cost Estimator | Tactical Design North | sk Total | Comments |
| Task & Subtask Description | \$210 | \$190 | \$160 | \$145 | \$145 | \$190 | \$85 | ns | s | (fee x 1.1) | (fee x 1.1) | (fee x 1.1) | ΕŢ | |
| Task 1 - Project Initiation | | | | | | | | | | | | | | |
| Project Start-up | 3 | 4 | | | | | 9 | \$1,900 | | \$600 | | | | |
| Kickoff Meeting and Site Visit | | ω | | | | | | \$1,520 | | \$600 | | | | |
| Sub Total Task 1: | 8 | 12 | 0 | 0 | 0 | 0 | 9 | \$3,420 | \$0 | \$1,200 | \$0 | \$0 | \$4,620 | |
| Task 2 - Topographical Survey | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Site Survey | | | | | | 36 | | \$6,840 | \$450 | | | | | private locates not included |
| Office Work | | | | | | | | | | | | | | |
| Research Plats and Review Existing Documents | - | | | | | 9 | | \$1,350 | | | | | | |
| Data Reduction | | | | | | 6 | | \$1,710 | | | | | | |
| Create Basemap | | | | | 4 | 4 | | \$1,340 | | | | | | For designer |
| Prepare Survey Control Sheet | - | | | | 4 | 9 | | \$1,930 | | | | | | For construction Documents |
| Sub Total Task 2: | 2 | 0 | 0 | 0 | 80 | 61 | 0 | \$13,170 | \$450 | \$0 | \$0 | \$0 | \$13,620 | |

AM 20-019

Page 1 of 5

| Subconsultants | IMS Cost Estimator actical Design North | 1.1) ((ee x 1.1) | - | required - but not billed | | | | | connect pad to existing site | extension of water to pad | | | | | | habaan homans doctoral | | | | | | | | | | | | hard copies to MSB | | accounts for all disciplines | acriminal le rol atminace | |
|-----------------------|---|----------------------------|----------------------|--------------------------------------|----------------------|---------------------------------------|------------------------------------|--------------|---------------------------------|---|---------------------|--------------------------|----------------------|---------------------------------------|----------------------------|--------------------------|---------------|----------------------|---------------------------------------|-------|----------------------|---------------------------------------|-----------|--|---|-------------------------|---|--|----------------------------------|--------------------------------|---------------------------|---------------------------------|
| Sub | хрепses иткрап Сгоп Агср. | (fee | | | | | | | | | | | | | | | | | | | | | | | | C C C L | 002,200 | \$450 | | | | |
| | lstot | qns | | | | \$625 | \$5.500 | \$4,040 | \$1,730 | \$2,880 | \$2,110 | \$1,195 | | \$670 | \$2,500 | \$1,340 | 000,00 | 0.00 | \$670 | \$310 | | \$625 | \$1,250 | \$960 | | | | \$1,520 \$ | | \$3,040 | \$760 | 006,14 |
| Group | enior Designer | \$190 \$ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CRW Engineering Group | TI3 Tagineer | \$145 | | | | ი ი | 12 | 20 | 80 | 10 | 8 | 8 | | 2 | 12 | 4 4 | 2 | (| 7 0 | 0 | | က | 9 0 | 0 4 | | | | | | | | |
| CRW | inncipal enior ngineer | \$190 | | | | - 0 | 7 4 | 9 | က | 9 4 | . 22 | 4 | | 2 | 4 | 4 4 | 2 | c | 7 | 1 | | - | 5 | 7 2 | | | | 80 | | 16 | 4 5 | 2 |
| | CRW Engineering Group, LLC February 2020 | Task & Subtask Description | Task 3A - 50% Design | Design and Discovery All Disciplines | Site Civil Documents | Notes, Legend and Abbreviations Sheet | Existing Conditions Plan Site Plan | Grading Plan | Pad Connection Plan and Profile | Water Plan and Profile Sheets Site and Building Sections Sheet | Civil Details Sheet | Technical Specifications | Structural Documents | Notes, Legend and Abbreviations Sheet | Foundation Plan and Detail | Technical Specifications | Notaling Wall | Mechanical Documents | Notes, Legend and Abbreviations Sheet | | Electrical Documents | Notes, Legend and Abbreviations Sheet | Site Plan | Lighting and Fower Flan - 1 Technical Specifications | • | Architectural Documents | sneet prep, Code Analysis, Plan Development | Cost Estimate Develop Construction Cost Estimate | Coordination and Project Support | Coordination with Team Members | Project Management | Weeting with Oser Gloup and MSB |

CRW Engineering Group, LLC

Page 3 of 5

Central Mat-Su Emergency Services Training Complex Professional Fee Proposal

| Subconsultants | Burkharl Croft Arch. HMS Cost Estimator Tactical Design North | 1.1) (fee x 1.1) (fee x 1.1) H | | | | | | | | | | | | | | | | | | \$3,200 | | | none uns priase | | accounts for all disciplines | | accounts for all disciplines | |
|-----------------------|--|--------------------------------|----------------------------|-------------------------------|----------------------|-----------------|--------------------------|----------------------|-----------------|--------------------------|---|----------------------|-----------------|--------------------------|---|----------------------|-----------------|--------------------------|-------------------------|--|---------------|---------------|------------------------------------|----------------------------------|--------------------------------|--------------------|---------------------------------|--|
| | Sesnedx3 | | | | \$50 | | | | | | | | | | | | | | | \$3, | | | | | | | | |
| | lstotd | ns | The Control of the Control | | | \$7,390 | \$1,195 | | 070 03 | 92,910 | | | \$670 | \$480 | | | \$2,590 | \$670 | | | | | 006,14 | | \$3,800 | \$760 | \$1,520 | |
| | InstalasA nimbA | \$85 | | | | | | | 1 | | | | | | | | | | † | | | | | | | | | |
| d | Senior Surveyor | \$190 | | | | | | | T | | | | | | | | | | | | | | | | | | | |
| 3 Group | Senior Designer | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CRW Engineering Group | Engineer EIT | | | | | 30 | က | \parallel | 4 | 2 0 | | | 2 | 2 | | | 10 | 2 | | | | | | | | | | |
| W Eng | Registered Engineer | | | | 100 | | | | İ | İ | | | | | | | | | T | | | | | | | | | |
| CR | Senior Engineer | | | | | 16 | 4 | | a | 0 0 | , | | 2 | - | | | 9 | 2 | Ť | | | | 2 | | 20 | 4 | æ | |
| | Principal | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | |
| | oup, LLC | Task & Subtask Description | | Task 3B - Pre-Final Documents | Site Civil Documents | Refine drawings | Technical Specifications | Structural Documents | Define drawings | Technical Specifications | | Mechanical Documents | Refine drawings | Technical Specifications | | Electrical Documents | Refine drawings | Technical Specifications | Architectural Documents | Refine drawings, Design Narrative and Specifications | Cont Entimote | COSt Estimate | Develop Construction Cost Estimate | Coordination and Project Support | Coordination with Team Members | Project Management | Meeting with User Group and MSB | |

| CRW Engineering Group |
|--|
| Senior Engineer Registered Enginee Engineer EIT Senior Designer Senior Surveyor |
| \$160 \$145 \$145 \$190 |
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Page 4 of 5

| | | 0 | RW En | CRW Engineering Group | ng Grou | d | | | | Su | Subconsultants | ts | | |
|---|-----------|--------------------|---------------------|-----------------------|-----------------|--|-----------------|-----------|----------|---------------------|--------------------|-----------------------|-----------|------------------------------------|
| CRW Engineering Group, LLC February 2020 | Principal | Senior Engineer | Registered Engineer | Engineer EIT | Senior Designer | Senior Surveyor | JustaiseA nimbA | lstotal | Exbeuses | Вигкран Сгоff Агср. | HMS Cost Estimator | Tactical Design North | sk Total | Comments |
| Task & Subtask Description | \$210 | \$190 | \$160 | \$145 | \$145 | \$190 | \$85 | ns | S | (fee x 1.1) | (fee x 1.1) | (fee x 1.1) | εT | |
| Task 4 - Permitting and Bidding Services | | | | | | | | | | | | | | |
| Permittina Services | | | | | | | | | | | | | | |
| Fire Marshall Permit | | | | | | | | | | \$1,200 | | | | fee paid for by MSB |
| Bidding Services | | | | | | | | | | | | | | |
| Attend Prebid Meeting | | 4 | | | | | | \$760 | | \$500 | | | | |
| Answer Contractor Questions and Clarifications | | 9 | | | | | | \$2,070 | | \$400 | | | | |
| Prepare Addenda | | 9 | | | | | | \$1,450 | | \$400 | | | | |
| Total Task 4: | 0 | 16 | 0 | 0 | 0 | 0 | 0 | \$4,280 | \$0 | \$2,500 | \$0 | \$0 | \$6,780 | |
| Task 5 - Construction Administration | | | | | | | | | | | | | | |
| Construction Services | | | | | | | | | \$200 | \$3,300 | | | | |
| Attend Construction Meetings | | 20 | | | | | | \$3,800 | | | | | | number of trips and months of acti |
| Coordination w/Contractor | | 80 | | | | | | \$1,520 | | | | | | |
| Reviews | | 4 | | 9 | | | | \$1,630 | | | | | | |
| Periodic On-Site Inspections Services | | 24 | | 12 | | | | \$6,300 | | | | | | |
| Respond to RFI's and ASI's | | 12 | | 12 | | | | \$4,020 | | | | | 1 | |
| Prefinal Inspection | | 12 | | | | | | \$2,280 | | | | | | assume two engineers |
| Final Inspection | | 12 | | | | | | \$2,280 | | | | | | assume two engineers |
| Record Drawings | | | | | | | | | | | | | | |
| Prepare Record Drawings | | 9 | | 16 | | H | П | \$3,460 | | \$850 | | | | |
| Total Task 5: | 0 | 89 | 0 | 30 | 0 | 0 | 0 | \$25,290 | \$200 | \$4,150 | \$0 | \$0 | \$29,640 | |
| Tasks 1 to 3 - Basic Services (Lump Sum) | | Section 2 | | A STANFALLE | Section 1 | STATE OF THE PARTY | Salmana. | \$96,500 | \$950 | \$12,200 | \$0 | \$0 | \$109,650 | |
| Task 4 and 5 - Bidding and Construction Services (Lump Su | (mn | | | | | | | \$29,570 | \$200 | \$6,650 | \$0 | \$0 | \$36,420 | |
| Total All Services | 6 | 361 | 0 | 312 | 8 | 61 | 9 | \$126,070 | \$1,150 | \$18,850 | \$0 | \$0 | \$146,070 | |

ASSUMPTIONS

- Coordination with US Fish and Wildlife Services and similar permitting agencies not included, however can be added to scope if MSB requests this service
- CRW may assist the MSB at the end of Warranty Period to conduct one walk-through at the project site to review installed system components and provide applicable recommendations or comments 1. A Storm Water Pollution Prevention Plan will be prepared by the Contractor.
 2. Landscaping Services not required
 3. Head bolt heaters and electrical power supply outside the building not included
 4. A Horizondal Control drawing not included, the CAD will be provided to the construction surveyor for their field use
 6. CA services fee reflects time for 5 months of active construction work, and over two seasons.
 7. Coordination with US Fish and Wildlife Services and similar permitting agencies not included, however can be added to scope if MSB requests this service.
 8. CRW may assist the MSB at the end of Warranty Period to conduct one walk-through at the project site to review in 9. Onsite daily construction inspection and observation provided by others
 10. A storm drainage analysis not required or included
 11. State Fire Marshall permit paid for by MSB
 12. RampAwalkway connecting the training building module to the adjacent finished grade included with the design preg

- Rampwalkway connecting the training building module to the adjacent finished grade included with the design prepared by the building vendor

CRW Engineering Group, LLC