A-E TASK ORDER - STATEMENT OF WORK

Task Order under Contract No. W9126G-15-D-0009 - Michael Baker & Associates
Architect and Engineer Services for the Design of Floodwall,
Fence, Roads, Drainage, & Lights at Rio Grande Valley & San Diego
FY17, P2 465132, ATS: SWF-17-0799
Date: 17 May 2017

1.0 General

This Statement of Work (SOW) sets forth the performance requirements for the Architect-Engineer (A-E) services required for the full design of floodwall, fence, roads, drainage and lights at Rio Grande Valley (RGV) and San Diego Sectors. The A-E shall furnish all labor, management, investigations, studies, travel, facilities, supplies, equipment, and materials to perform the required services. The A-E is responsible for determining what disciplines and skill sets are required for accomplishing the work under this SOW and form a team accordingly. The A-E shall accomplish the required services and furnish to the Government reports and other data together with supporting material developed during the period of service as set forth herein. During the execution of work, the A-E shall provide adequate supervision and quality control to assure the accuracy, quality, timeliness, and completeness of the work. There is a Base Bid and four Options. The **Base Bid** is for the full design of the floodwall and features 2.93 miles, including a Programmatic Value Engineering (VE) Study of 32.8 miles, a Drainage Study of 32.8 miles identified in Appendix A, a Geotechnical Analysis & Reports of 32.8 miles identified in Appendix A, Topographic Survey & Mapping of 32.8 miles identified in Appendix A, and an Independent Technical Review of five D-B RFPs developed by others. **Option 1**is for the development of four D-B RFPs in California, New Mexico and Texas. **Option 2** is for the revision of the Tactical Infrastructure (TI) Standard Design Toolkit. **Option 3** is for the development of a D-B RFP for Rio Grande Valley, TX. **Option 4** is for Construction Phase Services.

1.1 Objective The Government plans to construct new and modifying existing flood risk management features that are interconnected and necessary to exclude flood waters from the floodplain while providing border security along the Southern Border.

1.2 Period of Performance

The period of performance for the base bid is 365 calendar days from Task Order award date. The period to exercise the Options 1, 2 & 3 will be 180 calendar days from award of the task order. The period to execute Option 4 will be 120 days from the completion of the base bid. The period of performance for each option exercised will be as follows:

Option 1: 114 Days from award of Option 1
Option 2: 180 Days from award of Option 2
Option 3: 92 Days from award of Option 3
Option 4: 365 Days from award of Option 4

1.3 Project Location

Project sites for this contract are located in Rio Grande Valley, Texas and San Diego, CA. The VE Study Meetings (Workshops) will be conducted concurrently with the required design submittals.

1.4 References

Some applicable Federal, state, and industry standards are referenced in this scope of work. All applicable standards, including those that are not referenced or listed, constitute criteria for the execution of this contract.

1.5 Precedence

This SOW provides specific instructions for the execution of this task order and, in cases of conflict, takes precedence over the basic requirements of IDIQ Contract.

1.6 Government Point(s) of Contact

The Contracting Officer's Representative (COR) will be appointed via a separate letter:

Joseph Crews, NCARB – Contracting Officer Representative (COR), CESWF
U.S. Army Corps of Engineers, Fort Worth District
CESWF-EC-AM
[redacted]

The Government's day-to-day point of contact for this task order is:

Rob Giacomozzi – Chief, B&F Management Section, CESWF
U.S. Army Corps of Engineers, Fort Worth District
CESWF-RPEC
[redacted]

The Government's Value Engineering point of contact for this task order is:

Clarence Banks – Value Engineering Officer (VEO), CESWF
U.S. Army Corps of Engineers, Fort Worth District
CESWF-EC-AC
[redacted]

The above POCs will be the A-E firm's primary points of contact with the Government; however, they do not have the authority to modify the SOW. The A-E shall not take direction that deviates from the terms of the SOW until the Contracting Officer (KO) formally modifies the SOW.

Contracting Officer: Linda Eadie, CESWF-CT, [redacted]

1.7 Installation/Facility Point(s) of Contact

Scott Recinos - Project Manager, Facilities Division
Border Patrol Facilities and Tactical Infrastructure
[redacted]

1.8 A-E Point(s) of Contact

Sam Darghous, PE, CFI
Michael Baker Jr. Inc.
Federal Programs
[redacted]

The A-E Project Manager is to serve as a single point of contact and liaison between the A-E and the Government. The A-E's Project Manager shall be responsible for the complete coordination of all work developed under this Task Order. Use of verbal communication is encouraged to the greatest extent possible for discussions and issues resolution. E-mail is encouraged to document guidance and decisions.

2.0 Base Bid Project Description

2.1 Base Bid Overview

The base bid is for the full design of 2.93 miles of floodwall, fence, roads, drainage, & lights that will encompasses new and modifying existing flood risk management features that are interconnected and necessary to exclude flood waters from the floodplain while providing border security. The project's alignment is along 32.8 miles of existing levees. The base bid also includes GeoTech, survey and a drainage study for the entire 32.8 miles. The project's scope consists of design of levees, fencing, floodwalls, and interior drainage features (culverts, gates,

and sumps) for construction. This Task Order will include preparation of 100% Design Documents resulting in a complete and usable project. All work shall conform to the CBP design criteria.

The A-E Contractor will coordinate these items with the CESWF Project Design Team, CBP personnel, and local utility providers. Overall guidance is provided by the CBP and TI Design Guides. See the CESWF AEIM for design deliverable requirements.

The Geotechnical Investigation and design requirements will be provided by the A-E.

The Topographic Survey will be provided by the A-E.

The Value Engineering Study will be provided by the A-E using a third-party firm.

The Construction Cost Estimate/Current Working Estimate will be provided by the A-E. One construction contract will be prepared for this project.

A pre-proposal conference to finalize the project scope of work and aid in the preparation of the A-E proposal is recommended. Labor and travel costs are not reimbursed by the Government.

Separate A-E fee proposals are required for each funded project. Fees must be clearly delineated between design and non-design.

2.1.1 Base Product Scope

The A-E shall develop design documents for construction for 2.93 miles of floodwall (also referenced as “levee wall”) along with supportive components (i.e., Fiber Optic Distributed Sensing, all-weather road(s), surveillance system, lighting, communications towers, the 150’ swath) comprising an enforcement system is critical to RGV Sector’s ability to prevent illegal entries (whether people, narcotics, etc.) and to achieve operational control of the border commensurate with Executive Order 13767. This will be at Weslaco Station’s Zone 11. The project alignment map can be found in Appendix 01 and will be on the south toe of the U.S. IBWC levee along the Maintenance Road.

The enforcement zone will be comprised of an engineered system of critical enforcement components that include the wall, lights, video surveillance system, Fiber Optic Distributed Sensing, vegetation control and an all-weather road (to facilitate proactive and concentrated patrol efforts). This system of capabilities will be arranged within a ~150’-wide footprint as measured from the southern toe of the levee to ~150’ south of that point. The ~150’-wide swath of real-estate will run concurrently with and parallel to the wall throughout the project area. The resulting enforcement zone will facilitate the establishment of a preventative operational profile; which, in turn, creates and conveys to the adversary an immediate certainty of detection and apprehension for any attempted breach.

Submittals will include survey and drainage features. The A-E will need to assess conditions of existing drainage and water crossings. In addition, the A-E shall define performance requirements

for construction to include but not limited to, welding, length, condition, wall thickness. The requirements will ensure the fence is not structurally compromised when it is being transitioned from a horizontal position to the final vertical placement. The A-E must incorporate design review comments from USACE, CBP, USBP, and International Boundary and Water Commission (IBWC).

The project will be awarded as a Design-Bid-Build construction project under an existing unrestricted horizontal MATOC at USACE. The design and completed construction must be approved and certified by FEMA according to their standards for flood protection. FEMA coordination will be an independent approval from IBWC, but will have similar effort to the IBWC approval. This will be a separate hydraulic model than the IBWC model.

The A-E will define top elevation for the fence at each water crossing, so that the top of the fence can be viewed from the video surveillance systems.

The design is required to include Remote Video Surveillance Towers (RVSS) towers every 2.0 miles (2 towers for the design). A map of the proposed alignment is included in Appendix A. Mile 0 to 2.93 starts on west end of RGV-010 and moves east.

Floodwall (i.e. Levee Wall):
The wall will be a concrete wall to the design height of the existing earthen levee crest will include a design for 18 ft. tall bollards installed in the top of the levee wall. The floodwall's alignment should be integrated into the existing levee embankment's cross section. The existing levees are not certified by FEMA. The A-E will work with IBWC and FEMA to obtain FEMA certification and/or to ensure that the levee/wall meets all design criteria for FEMA certification. For FEMA certification, any deficient areas along the existing levee embankment will need to be repaired in conjunction of floodwall construction since the wall and adjoining levee acts as one structure. The levee floodwall will include automated vehicle gates for access south of the levee wall. The number, size and location of the gates will be determined during the design phase. Floodwalls and associated components shall be design for hydraulic loading, seepage, and slope stability.

Fiber Optic Distributed Sensing:
A fiber optics cable associated with the Fiber Optic Distributed Sensing (FODS) system will be installed in the enforcement zone. Its connection with the required electronics to make it operational will be subject of a future project. Any work included in this SOW shall anticipate and facilitate that future connection.

The design will include in-placing fiber optic cable for the entire length of the project, 18" - 24" deep, in proximity and parallel to the fence. The cable shall be in conduit and embedded in concrete at all water crossings. The design shall include drawings detailing how this work will be accomplished. The A/E shall design to prevent washouts and include any additional design elements required for other structures.

Lighting:

Enforcement zone LED lighting will be installed as part of this project. Ideally the light fixtures will be mounted on poles located within the approximate center of the enforcement zone but compliance with floodplain restrictions may dictate that they be mounted on the levee wall or bollards. The lights will be designed and constructed in accordance with the lighting design standards developed and confirmed as part of the San Luis lighting retrofit project recently completed in Yuma, AZ. The lights will be made fully functional as part of the construction project, to include the supply of power to the site if not available. The lights shall illuminate the entire enforcement zone and the southern face of the levee wall with the intent of minimizing any dead zones to the extent feasible.

All Weather Road:

An all-weather aggregate patrol road (type FC-2) will be constructed on the south side and parallel to the levee wall and within the 150 ft enforcement zone and floodplain. The specific location of the road within the enforcement zone will be determined during the design phase of the project. Vegetation removal within the enforcement zone will be included with this task and be covered under an environmental waiver provided by the Government. The floodwall and its earthen embankment crest shall be designed to accommodate vehicle loading. IBWC & USBP shall provide traffic loading conditions.

Value Engineering: The primary objective for the Value Engineering Contractor (VEC) is to conduct a VE Studies focused on the review of the latest design packages to ensure requirements and technical parameters are clearly defined. In addition, the VEC shall evaluate available project information to enhance the value of the project through the identification of appropriate cost saving measures, including life cycle cost savings, and added value improvements without sacrificing project requirements.

Construction Project Phasing:
Due to funding constraints, the Construction Documents will be developed to include a base bid and five options for construction. The Construction Base Bid and Options will be developed as follows:

Construction CLIN Schedule	Length in Miles
Base Bid	1.0
Option 1	0.5
Option 2	0.5
Option 3	0.5
Option 4	0.13
Option 5	0.3
TOTAL Miles	2.93

2.1.2 Base Project Scope

2.1.2.1 This Scope of Work includes all work necessary for the A-E firm to prepare 100% Design documents denoting a complete and usable facility.

a. Design Quality Control Plan

b. Reviews and Conferences

c. Confirmation Notices, Status Reports

d. Design Charrette

e. Drainage Study

f. Parametric Design (35%) Data.

g. Preliminary Design (65%) Data

h. Advance Final Design (95%) Data

i. Corrected Final Design (100%) Data

j. Planimetric, Topographic Survey for the entire 32.8 miles

k. Geotechnical Investigation: Subsurface Investigation Borings, In-Situ and Laboratory Testing, and Geotechnical Report for the entire 32.8 miles

l. Structural Analysis

m. Cost Estimates

n. Value Engineering Study for the entire 32.8 miles

o. Independent Technical Reviews

p. Design Requirements/Disciplines

(1) Site

(2) Landscaping, Fencing

(3) Parking, Roadways, Exterior Lighting

(4) Storm Drainage, Storm Water Pollution Prevention Plan

(5) Site Utilities

(6) Structural

(7) Electrical

(8) CCTV, Intrusion Detection

(9) Lightning Protection, Grounding

(10) Bidder Inquiries

(11) Amendments

2.2 Base Bid Construction Cost Limitation.

Construction Cost Limitation (CCL) **$**45,000,000
(Maximum available construction contract amount).

The CCL includes all costs of the construction contract (base bid and bid options). It excludes construction contingencies and supervision, inspection, and overhead. The A-E shall keep the facilities within limitations of scope and funding as set herein and above.

Bid Options. The A-E shall prepare design documents clearly delineating Government identified bid options to allow for flexibility in addressing availability of funds. The Government has some limited authority to request authority to award bid options above the CCL provided funding is available. However, the base bid must result in a complete and useable facility and be within the CCL.

The statutory limitation for basic A-E design services is 6% of the Construction Cost Limitation. Non-design services are not subject to this limitation. As such, the proposal will be evaluated per requirements of the Brooks Act and Public Law 92 582.

3.0 Base Bid Services

3.1 Quality Control Plan

The minimum requirements for the quality control plan (QCP) are given in ER 1110-1-12, *Quality Management*, and the project SOW. The QCP is the A-E firm's management plan(s) for execution of the contract. The QCP describes the way in which the A-E will produce the deliverables, the steps that will be taken to control quality, and an assigned point-of-contact within the A-E firm's organization responsible for ensuring compliance with the QCP. The QCP, modified to include any changes to the contract that occur, will be attached as an appendix to the design analysis.

3.2 Base Bid A-E Services (See CESWD-AEIM for full descriptive requirements.)

a. Design Quality Control Plan (See Section 3.1)

b. Reviews and Conferences (See Section 5.2)

c. Confirmation Notices, Status Reports (See Section 3.3.1)

d. Design Charrette - The A-E shall conduct a Design Charrette to determine the customer's functional requirements, budget and schedule. The Charrette Meeting shall include, but not be limited to, gathering and developing requirements concerning User activities, number of personnel, operations requirements, security, Due Diligence studies, and general site requirements. Key discussion items shall include project/design alternatives, key 'show stoppers', and team buy-in for final design requirements. By the end of the Charrette, the A-E shall develop conceptual site plans, and management out-brief. Final deliverables for the Charrette include meeting minutes, site plans and utility plans.

e. Drainage Study - Provide a drainage Study for the area identified in Appendix A to address the impacts of the proposed projects to the existing floodplains and design of drainage crossings due to the proposed improvements. The levee wall/fence shall be protected from erosion due to stormwater run-off and allow the conveyance of stormwater runoff across the site.

The Contractor shall prepare a programmatic drainage report for the impacts of the 32.8 miles of new levee wall in RGV as well as a project specific report for RGV-010 identified in Section 2.1.1 and meet with the appropriate USIBWC personnel to discuss this project and gain a clear understanding of the approval requirements for the design. The Contractor shall coordinate with the USIBWC and respond to any comments or questions. Additionally, the Contractor shall coordinate with the local officials and entities on the design and RFP package. USIBWC shall lead and be responsible for the coordination with the Mexican Section of USIBWC. The Contractor shall complete a Draft Drainage Report and submit this document with the 35%, 65%, 95% and 100% construction drawings.

The programmatic drainage report will outline all hydrologic and hydraulic assumptions, drainage criteria, data, calculations, modeling, results and design recommendations. All drainage analyses and design for this program shall be performed in accordance with the requirements of the Department of Homeland Security's Tactical Infrastructure (TI) Design Standards (DHS, 2012). General drainage design criteria shall be used for sizing erosion protection and conveyance measures along with treaty requirements from the U.S. Section of the International Boundary and Water Commission (USIBWC) as discussed in the TI design standards.

The contractor shall be responsible for gathering all geospatial and hydrologic data necessary for the hydrologic and hydraulic analyses. This data shall include the seamless 30-meter elevation datasets, current aerial imagery, and the new survey data being collected for the project. The U.S. - Mexico Border Environmental Health Initiative (BEHI) created a seamless 30-meter elevation dataset for both sides of the border. The 30 meter 1 arc second USGS National Elevation Dataset (NED) was harmonized with the Instituto Nacional de Estadística, Geografía e Informática (INEGI) 30 meter Continuo de Elevaciones Mexicano (CEM) to create a seamless elevation model for the U.S.-Mexico

Border region. In addition the USGS applied the NED filtering and smoothing algorithms to INEGI's CEM to improve the dataset. Other geospatial data to be collected may include cities, urban areas, roads, watersheds, streams and rivers, and land cover. Most of the required geospatial data, including the seamless 30-meter elevation data, is available for download from the U.S. - Mexico BEHI website (BEHI, 2015).

The Contractor shall address the following requirements for the programmatic drainage report and the RGV-010 project hydrologic analyses:

Provide final drainage basin delineation maps showing all basins and sub-basins associated with the limits of construction. The contractor shall determine all locations where existing intermittent streams, rivers, or drainage paths cross the proposed project whose drainage areas are distinguishable in the 30-meter elevation data. For each drainage crossing location, the contractor shall delineate the contributing drainage area using seamless 30 m U.S. NED and Mexico CEM elevation data.
For each drainage crossing location, peak discharges shall be calculated for the watershed runoff hydrographs resulting from the 25-yr, 50-yr and 100-yr storm events. The methodology for calculating hydrologic flows at the project drainage crossings shall use the following three methods as minimum design standards:

a) For watersheds less than 1 square mile, the rational method can be used. This method is not applicable to larger drainage areas.
b) For watersheds between 1 square mile and 10 square miles, the Natural Resources Conservation Service method shall be used.
c) For watersheds larger than 10 square miles, the regression equations for the area shall be used. These equations are provided by the U. S. Geological Survey's (USGS) GLSNet software.

More detailed rainfall-runoff modeling in HEC-HMS may be substituted for any of the above minimum design methods. Since all of the above methods carry a great degree of uncertainty, the contractor shall calculate the 25-yr, 50-yr and 100-yr peak discharges with two or more of the four methods listed above and then adopt the maximum value for design. This approach is intended to improve the long term reliability of the drainage design.

USIBWC is responsible for ensuring that improvements on the U.S. side of the international land border with Mexico comply with treaty provisions as they relate to cross-border drainage. Impact to water surface elevation between the pre and post construction conditions due to any new TI, including border and access roads, being built along the land border between the U.S. and Mexico shall not exceed 6 inches in rural areas and 3 inches in urban areas using the 100-year storm event as required by USIBWC.

To verify the impacts are within the above mentioned limits, hydraulic models shall be developed. The models shall be developed with HEC-RAS software using the 100-yr discharges calculated in the hydrologic analyses of this scope. Existing conditions and proposed conditions models shall be developed at each applicable drainage crossing, and

the difference in water surface elevations shall be compared. The existing conditions cross sections shall be cut from the project survey data in the immediate area of the proposed project and from the 30-meter elevation data outside of the survey area. The proposed condition models shall demonstrate that the impacts of proposed structures to be built within the floodplains of these drainage paths will not exceed the rise in water surface elevation limits stated above. New construction or improvements more than 60 feet north of the border do not need to comply with the drainage treaty provisions mentioned above.

The Contractor shall address the following requirements for hydraulic analyses:

Determine local drainage runoff and/or sheet flow conditions as they cross the fence alignment.
Provide the final hydraulic calculations identifying the final discharge velocity and rise in water surface elevation associated with the selected fence type at each identified wash crossing. Maximum acceptable rise in water surface elevation shall be 6-inches at rural locations and 3-inches at urban locations along the International Boundary.
Provide final calculations showing depth of scour and/or long term degradation.
Provide details for protection against scour and/or long term degradation.
Provide details for culvert and/or low water crossings at each wash crossing which satisfies rise in water surface elevations stated above.
Provide hydrologic/hydraulic design and details showing that any/all cut and/or fill operations conducted within the project site do not adversely affect the natural drainage patterns across the site and satisfies the rise in water surface elevation stated above.
Provide hydraulic design and details for any other site drainage improvements required due to construction of the all-weather road.
Conduct hydraulic analysis using HEC-RAS modeling.

Based on the hydrologic and hydraulic analyses performed for the programmatic drainage report and in accordance with the TI design standards, the contractor shall make project design recommendations related to drainage conveyance through the fence, low water crossings, culverts, drainage gates and erosion control. The recommended types and sizes of these drainage features shall be specified in the final drainage report.

A drainage report will be prepared by the Contractor summarizing all hydrologic and hydraulic assumptions, drainage criteria, data, calculations, modeling, results and design recommendations. The report shall include maps of the locations of the identified drainage crossings and their contributing drainage areas. It shall specify the hydrologic method used at each location and include a summary of the calculations and assumptions used to calculate frequency peak discharges. The report shall also include maps of the hydraulic model cross sections and stream centerlines, summaries of the data and parameters, and assumptions used in the hydraulic models, and tabular summaries of the calculated water surface elevations for existing and proposed conditions. Drainage design recommendations, including types and sizes of drainage features, shall also be included in the report. In addition to the report, the contractor shall provide the government with a

digital copy of all models, hydrologic calculations, and all geospatial data collected or developed as part of this scope.

The Contractor shall deliver the draft drainage report, models, hydrologic calculations, and geospatial data to the USACE Program Manager (PgM) for review and comments. One round of responses to USACE comments shall be prepared by the Contractor for USACE review and concurrence. The Contractor shall be available via telephone to respond to any comments or questions regarding these documents and if required shall prepare a review comment resolution matrix (RCRM) documenting all review comments and corresponding resolution. The contractor shall prepare a draft final (90% design level) drainage report following USACE concurrence to the Contractor's response to comments. The Contractor shall deliver the draft final drainage report to the USACE Program Manager (PgM) for review and comments. One round of responses to USACE comments shall be prepared by the Contractor for USACE review and concurrence. The Contractor shall be available via telephone to respond to any comments or questions regarding these documents and if required shall a RCRM documenting all review comments and corresponding resolution. The Contractor shall prepare the final report (100% design level) following USACE concurrence to the Contractor's response to comments. The final report shall incorporate the resolved USACE comments and Contractor's response to comments, and be delivered in hard copy and electronic format.

Drainage Report References:

1. Department of Homeland Security (DHS) Customs and Border Protection, *Tactical Infrastructure Design Standards*, April 2012.
2. U.S. – Mexico Border Environmental Health Initiative (BEHI), http://borderhealth.cr.usgs.gov/datalayers.html, accessed May 2015.

f. Geotechnical Investigation for all 32.8 Miles - Provide services as set forth in the attached exhibit. The A-E shall conduct drilling operations, conduct limited on-site testing and deliver samples/boring logs to the testing facility. This study will provide site characteristics required to support the foundation design proposal. The A-E shall develop a sealed Geotechnical Report for the following project locations. The A/E shall coordinate with the USACE Levee Safety Officer, or designee, to meet USACE, IBWC & FEMA requirements prior to drilling into any levee.

Table for Geotechnical Investigation Zones

RIO GRANDE VALLEY PROJECTS		
Station	**Zone**	**Miles**
Rio Grande City	1/2	3.68
McAllen	6	1.71
McAllen	8	5.47
McAllen	9	1.91
McAllen	9	3.06
McAllen	9	0.83
Weslaco	10	0.69
Weslaco	10	2.46
Weslaco	11	2.24
Weslaco	11	2.93
Weslaco	11	2.44
Weslaco	12	1.01
Weslaco	12	2.09
Weslaco	13	0.37
Weslaco	13	1.91
Total		**32.8**

g. Planimetric, Topographic Surveys for all 32.8 Miles - A new topographic survey will need to be accomplished to supplant and update previously captured topographic information. This will ensure accuracy of the design for improvements and the drainage analysis. It is the contractor's responsibility to verify any existing data that is provided. This topographic survey effort should be done at the scale required for the proposed design improvements and drainage analysis (i.e. 1"=30' with 1'contours, etc). The survey data required for this project is not limited to the 150-foot wide project area, additional topographic information will be required for the drainage study, utility connection points, property boundaries, existing drainage features, etc. This documentation will need to be packaged by the following project locations:

Table for Geotechnical Investigation Zones

RIO GRANDE VALLEY PROJECTS		
Station	**Zone**	**Miles**
Rio Grande City	1/2	3.68
McAllen	6	1.71
McAllen	8	5.47
McAllen	9	1.91
McAllen	9	3.06
McAllen	9	0.83
Weslaco	10	0.69
Weslaco	10	2.46
Weslaco	11	2.24
Weslaco	11	2.93
Weslaco	11	2.44
Weslaco	12	1.01
Weslaco	12	2.09
Weslaco	13	0.37
Weslaco	13	1.91
Total		**32.8**

Additional information is in the attached exhibit.

h. Utility Connection Points - Perform the necessary analysis to identify the characteristics of all required existing utilities. Determine connection points and new infrastructure requirements to service the project.

i. Structural Analysis – Provide a structural analysis as required to support this SOW.

j. Geotechnical Design Requirements – The A-E shall complete the design as denoted in the Geotechnical Investigation.

k. Construction Cost Estimates - A Parametric (PACES) estimate is required for the Parametric Design (35%) Documents. A MII Micro-Computer Aided Cost Estimate is required for the 65%, 95% and 100% Design Data submittals. The requirements of this Task Order override and replace the requirements listed in the AEIM.

l. Value Engineering Study - Provide services as set forth in the attached exhibit.

m. Design Analysis (DA) - Prepare a DA in accordance with the US Army Corps of Engineers Southwest Division Architectural (CESWD) and Engineering Instructions Manual (AEIM), user interviews, functional analysis, and cost analyses. Key requirements may include: DQCP, Project Description, Site Analysis, Site/Grading/Utilities Plans, Utility Connection Points, Storm Water Management Plan, Storm Drainage System, , Life Safety Analysis, Government Furnished Equipment, Required Permits, Design Selection Criteria, Design Assumptions, Major (Discipline Specific) System Requirements (Pavement Sections, Foundation Type, Electrical Distribution Equipment Criteria, Communication Requirements, Sprinkler/Fire Alarm System Criteria), Design/Load Calculations, Economic Analyses, Non-formalized Life Cycle Cost Analysis, Permitting Requirements, Outline Specifications, Materials, Methods of Construction, O&M Provisions, Construction Schedule/Phasing, and Current Working Estimate. The design analysis shall contain seepage and slope stability analysis in accordance to USACE Engineer Manual design criterial.

n. Cost and Scope Limitations - The A-E shall ensure the guidance outlined in the RFP requires the Offerors to provide a usable facility within the limitations of estimated construction contract price and scope. If at any time, the A-E finds that the estimated construction cost and scope of the project is likely to exceed the budget, the A-E shall report this fact to the Contracting Officer Representative. He shall also submit recommendations (associated costs) for reducing the project cost and/or scope to within the established limits.

o. Parametric Design (35%) Data - The A-E shall submit the design data as denoted in the AEIM. This submittal typically consists of a parametric construction cost estimate, Design Analysis, conceptual drawings (or graphic brochure-type presentation) with essential engineering criteria required to complete the project design, and an index of USGS guide specifications. It will allow the Owner to understand the functional and technical approach so they can determine if the proposed design meets their functional/operational requirements. Immediately following submittal of the draft Conceptual Design Data, the A-E shall conduct a Value Engineering Study with an independent review team.

p. Preliminary Design (65%) Data - The A-E shall submit the design data as denoted in the AEIM and following the Government's review of the previous package. This submittal typically consists of a Design Analysis, CADD working drawings, calculations, marked-up USGS guide specifications, working specifications, **MII** construction cost estimate and color boards. The Working Cost Estimate shall capture all updates since the issuance of the parametric cost estimate.

q. Advance Final Design (95%) Data - The A-E shall submit the design data as denoted in the AEIM and following the Government's review of the previous package. The CADD drawings and specifications are complete and ready for advertising except for incorporation of final comments. Edited guide specifications with a bid schedule are required along with the Design Analysis and color boards. A Working Cost Estimate (**MII**) capturing all updates shall be submitted. The documents shall have been given an Independent Technical Review by the A-E per the DQCP.

r. Corrected Final Design (100%) Data - The A-E shall submit the design data as denoted in the AEIM following the Government's Biddability, Constructability, Operability, Environmental, and Sustainability (BCOES) Review of the previous package. The A-E shall perform a compliance check to ensure all review comments have been incorporated prior to submission of the corrected Final Design. A final Working Cost Estimate (**MII**) capturing all corrections/amendments shall be submitted. Final USGS guide specifications are required.

s. Landscaping, Fencing – Specify accepted plants for low maintenance and minimal irrigation.

t. Parking, Roadways, Exterior Lighting - .

u. Storm Drainage, Storm Water Pollution Prevention Plan – Shall be based on the Proposed Site Plan. Must be coordinated with Installation personnel to define local requirements.

v. Site Utilities - Following verification of existing utilities, new infrastructure requirements and points of connection to service the project must be determined by the A-E. Domestic Water, Sanitary Sewer, and Natural Gas lines must be sized to handle project loads and then terminate into existing mains. Electrical conductors shall be sized to handle project loads and then terminated into required electrical transmission equipment. Privatized utility requirements will be denoted.

w. Structural – Based on specific wind, snow, hydraulic and seismic loading.

x. Electrical - Coordinate design of the primary electrical distribution with the local utility provider, Installation personnel and the CESWF Project Design Team. Identify who and how power will be provided to the facility transformer primary and secondary sides.

y. CCTV, Intrusion Detection – Based on specific project requirements.

z. Lightning Protection, Grounding – Based on specific project requirements.

aa. Bidder Inquiries / Amendments - The A-E will respond to Bidder Inquiries via the ProjNet (Dr. Checks) system and provide updated Design Documents. The Government will issue the actual amendment. Contractor response shall be provided to the Contracting Officer no later than two calendar days following receipt of the inquiry.

bb. Current Working Estimate - The current U. S. Army Corps of Engineers' Micro-Computer Aided Cost Estimating System MII (pronounced "M2") Version 4.0 Build III or most recent release, and compatible databases are required for all construction cost estimates produced under this Task Order. Contact CESWF-EC-AC Section Chief for information pertaining to obtaining the software. Each submittal must include an MII estimate based upon the current stage of design. The software database now requires purchase (with the costs subject to change), but current cost is approximately $1,000. This purchase is not made nor controlled through CESWF-EC-AC. The current version of the software program will be provided to the A-E under contract who must then follow the prescribed licensing procedure to make use of the software for the term of this contract. Any other use of the software and the database can be utilized per the terms of the licensing agreement with the manufacturer. That licensing agreement is not under the control of CESWF-EC-AC. A PDF file of the project estimate must be submitted with the reports file. Hard copy requirements are denoted elsewhere. The estimate will not be complete until the bid opening estimate or final proposal estimate which includes all amendments and the completed bid or CLIN schedule in its final advertised format have been submitted to CESWF prior to the construction contractors' final proposal or bid deadline date shown in the solicitation or SF30. All pricing information included with any database or other source can and should be adapted, modified, changed, increased, or decreased as deemed necessary by the estimator to prepare an estimate representative of the project. The information contained in any database or any other cost information provided by the Fort Worth District office, CESWF-EC-AC, or obtained from other sources is not intended to represent fixed prices for ordering supplies, equipment, material, labor, nor any other construction component in the Government estimate. The estimator's professional judgment and decisions should be the definitive factor in determining fair and reasonable costs calculated for submittals and reviews. In MII, when submitting estimates for Military Projects, the Corps' current 20 system Work Breakdown Structure (WBS) will be used to structure the estimate (or PCCost 3086/1391 format when requested) unless CESWF-EC-AC determines that WBS is not applicable. For Civil Works Projects, the current Code of Accounts structure will be used unless the project is of a nature that does not warrant any of these estimate structures but that variance must be requested and then authorized by CESWF-EC-AC. Excel based estimates or other software forms of estimating are not acceptable unless the A-E has been approved by CESWF-EC-AC to provide back-up data or lower level costs in those formats. Final roll-up and mark-ups of those estimates will be entered in MII software for submittals though by utilizing the structure required by CESWF-EC-AC. The A-E shall be aware of and take precautionary measures as necessary to maintain the confidential nature of all cost estimates prepared under this Task Order. All estimate submittals shall be prepared in accordance with USACE instructions, regulations, and manuals for cost estimates as contained in EI 01D010, ER 1110-2-1302, and TM 5-800-4 and in compliance with EFARS 36.2. Costs will be developed using the latest standards and resources as applicable and including but not limited to the Tri-Services Estimating System,

TRACES, MII, the MII Cost Book databases, commercial cost book databases, PAX newsletters 3.2.1 and 3.2.2, Davis-Bacon wage rates utilized as minimum values, commercially available reports, data, and local site specific or otherwise available sources of material, supplies, equipment, labor and other data. Compilation of the Current Working Estimate will incorporate the preceding sources and references utilizing the most recent available software as stated and/or other TRACES software which may include MII, MCACES, PACES, PCCost, risk analysis programs, or any of the other approved systems available to TRACES users. Any applicable software and databases which normally are distributed without cost by CESWF-EC-AC will be made available to the A-E by CESWF-EC-AC under the Task Order. Certain software programs and databases as described above and which also include PACES and RACER but are not limited to these mentioned herein may require purchase by the A-E and cannot be provided without cost to the A-E by CESWF-EC-AC. Construction cost estimates for planning and budgeting purposes and for projects at 0 - 15% stages may be submitted by utilizing parametric software such as PACES and then summarizing the costs in the PCCost software if CESWF-EC-AC deems this acceptable. Also for any planning and budgeting purposes, PCCost software may be used to generate costs by utilizing the category codes and area cost factors in the PCCost database (which also includes Area Cost Factor data and adjustments). Updates to the database are available from CESWF-EC-AC. Electronic copies of all cost estimates in their native formats must be submitted along with any txt, pdf, doc, and rtf type report files generated to produce the hard copies.

cc. Pre-Proposal Conference and Site Visit - A Pre-proposal Conference and Installation Site Visit shall be conducted for potential Offerors after the RFP is advertised. The A-E Project Manager shall be required to make a presentation of the general RFP development concept and project features at the beginning of the review conference. The A-E shall prepare the agenda and organize the conference so that all technical and functional issues can be addressed within the scheduled duration of the conference. The presentation is intended to provide the conference members with a clear understanding of the facility and how it functions. It can be expected that the participants can range up to a large group (up to 50 persons). The COE will chair the Conference and respond to offerors concerns at the conference. This is planned as a one-day meeting requiring travel the previous day and returning the day of the conference. The A-E shall provide detailed meeting minutes.

dd. Independent Technical Reviews – The A-E shall perform five Independent Technical Reviews (ITR) in support of the Border Wall Program. These will be reviewed by a Sr. Civil Engineer and a Principal. The intent is to review the Draft D-B RFP and Final D-B RFP Submittals developed by others. The reviews will be conducted concurrent to the Government two-week review period, there will be a one-day teleconference to discuss unresolved comments and will also include a one-week back-check period.

ee. CADD Final Deliverable - All drawing shall be eTransmitted in order to get all of the associated files (i.e. fonts, plot setting, xref's, images etc.) in a Zip file.

3.3 Administrative Tasks

3.3.1 Confirmation Notices

The A-E firm shall provide a record of all conferences, meeting, discussions, verbal directions, telephone conversations, etc., the A-E firm and/or their subcontractor(s) on matters related to this Task Order. The A-E firm shall identify all participating personnel, subjects discussed, and conclusions reached. The A-E firm shall title these records *Confirmation Notices* and shall number them sequentially. The A-E shall forward each Confirmation Notice via email to the Government POC within three working days. Communication via email is acceptable for minor, day-to-day correspondence.

3.3.2 Periodic Status Reports

The A-E firm shall provide a monthly status report to the Government POC. The report shall include: Current Status, Action Item List, and discussion of major issues.

4.0 Base Bid Schedule and Deliverables

4.1 Schedule

4.1.1 The Table below shows the schedule of services and deliverables covered in this task order. The A-E Contractor shall submit a schedule showing dates for all key submittals.

Base Bid Schedule of Services and Deliverables

KEY SERVICE OR DELIVERABLE	DUE DATE
Design Quality Control Plan	Within 7-days of T.O. Award.
Design Charrette	Within 14-days of T.O. Award.
Parametric Design (35%) Data Submittal	Within 30-days of T.O. Award.
Draft Drainage Study Submittal	Same day as the 35% Submittal
Draft Planimetric, Topographic Survey Submittal	Within 30-days of T.O. Award.
Government review of Parametric Design (35%) Data	Estimated 14-days after 35% Design Submittal.
VE Study Conference	Estimated 21-days after 35% Design Submittal.
Draft Geotechnical Report	First three miles for the D-B-B Portion within 45 days of T.O. Award, all other area within 120-days of T.O. Award
Draft Topo Survey	First three miles for the D-B-B Portion within 45 days of T.O. Award, all other area within 120-days of T.O. Award
Preliminary Design (65%) Data Submittal	Within 61-days of T.O. Award.
Draft Programmatic VE Study Submittal	Same day as the 65% Submittal

KEY SERVICE OR DELIVERABLE	DUE DATE
Interim Drainage Study Submittal	Same day as the 65% Submittal
Final Planimetric, Topographic Survey Submittal	Within 61-days of T.O. Award.
Government review of Parametric Design (65%) Data and VE Study	Estimated 14-days after 65% Design Submittal.
Final Programmatic VE Study Submittal	Within 75-days of T.O. Award.
Final Geotechnical Report	First three miles for the D-B-B Portion within 75 days of T.O. Award, all other area within 210-days of T.O. Award
Final Topo Survey	First three miles for the D-B-B Portion within 75 days of T.O. Award, all other area within 210-days of T.O. Award
Advance Final Design (95%) Data Submittal	Within 91-days of T.O. Award.
Final Drainage Study Submittal	Same day as the 95% Submittal
Government review of Parametric Design (95%) Data	Estimated 14-days after 95% Design Submittal.
Corrected Final Design (100%) Data Submittal	September 22, 2017.
Corrected Final Design Drainage Study	Same day as the 100% Submittal
Dr. Check Bidder Inquiries	Within 2-days of posting in Dr. Checks
Construction RFP Amendment(s)	Within 3-days of notification of need for Amendment.
Construction Contract Award CD	Within 7-days of Construction Contract. Award.
Draft Independent Technical Review of five D-B RFPs (Requirements in 3.2.ee.)	Within 270-days of Task Order Award
Final Independent Technical Review of five D-B RFPs (Requirements in 3.2.ee.)	Within 365-days of Task Order Award
Administrative Tasks	
Confirmation Notices (Email only – Numbered)	Within 3-days.
Monthly Status Report (pdf attachment via email)	Within 5-days from end of month

4.1.1 The days listed above are calendar days, including Saturdays, Sundays, and Federal holidays. The Government must receive the deliverable by the start of the next business day. If the due date falls on a Saturday, Sunday, or Federal holiday, the Government expects receipt by the start of the next business day. The A-E Contractor should assume 14-days for receipt of Government comments for review of major submittals. On-site review conferences or conference calls can be scheduled no sooner than 7-days following receipt of the submittal.

4.1.2 The Government may accept submittals prior to the due date provided they are complete and have received a quality control check. The Government will not accept partially complete submittals early or otherwise.

4.2 Deliverables

4.2.1 The table below shows the list of deliverables and their required distribution.

Deliverable Distribution Schedule

Deliverables	Number of Copies					
	A	**B**	**C**	**D**	**E**	**F**
Electronic Copies Only (Native and/or .pdf formats)						
Design Quality Control Plan	1	1				
Minutes, Confirmation Notices, Status Reports	1	1	1	1	1	1
Design Analysis	1	1	1	1	1	1
Design Data/CADD Drawings, (35%, 65%, 95%, 100%)	1	1	1	1	1	1
Specifications (35%, 65%, 95%)	1	1	1	1	1	1
Specifications (100%)	1	1	1	1	1	1
Value Engineering Report	1	1	1	1	1	1
Cost Estimates in native format and PDF	1	1	1			1
Bid Schedules	1	1	1			1
Contract Award Documents	1	1	1	1	1	1
Drainage Study Draft and Final	1	1	1	1	1	
Topo Survey Draft and Final	1	1	1	1	1	1
Hard Copies (8” x 11 ½”)						
Due Diligence Reports						
Design Analysis						
Specifications (35%, 65%, 95%)						
Specifications (100%)						
Value Engineering Report						
Bid Schedules						
Contract Award Documents						
Drainage Study Draft and Final	1	1	1	2	2	1
Topo Survey Draft and Final						
Full Size Drawings						
Drawings (100% Design)						2

4.2.2 The table below lists the Points of Contact that correspond to the letters (*A, B, C*, etc.) in deliverable distribution schedule above.

Address List

a. CESWF Design Manager (Address Stated Above)

b. CESWF COR (Address Stated Above)

c. CESWF PM (Steve Dill) 819 Taylor Street, CESWF-ECSO-T, Fort Worth TX, 76102

d. CBP Office, (Address Stated Above)

e. BPFTI PMO, Scott Recinos, 7940 Jones Branch Drive, McLean, VA 22102

f. CESWG Area Office (Name provided after award), 252 Industrial Dr # A, Port Isabel, TX 78578

4.2.3 The A-E form shall coordinate submittal distribution with the POCs. The original transmittal letter will be addressed to the POC and will note that by information copy of that transmittal, appropriate review agencies are being provided copies of the work products and are requested to provide comments electronically to the POCs and to the A-E firm by the due date. The original transmittal letter and all copies will include a schedule showing data distribution.

5.0 Base Bid Reviews and Conferences

5.1 Quality Assurance Reviews

5.1.1 Formal Reviews

5.1.1.1 The Government will perform a formal Quality Assurance (QA) check on the following:

a. The POC will be responsible for providing the comments to the A-E and the A-E shall be responsible for responding to, and incorporating (if appropriate), all comments from reviewers into the deliverables.

b. The A-E maintains professional responsibility and liability for the deliverables. If, in the A-E's professional opinion, a QA comment either does not apply or the A-E disagrees with it, then the A-E shall not incorporate that comment into the deliverables. The A-E shall respond to the comment "Do not concur." and provide the comment submitter with an explanation of the disagreement. The A-E shall also be prepared to discuss the position with the reviewer.

c. CESWF uses USACE's web-based *Design Review and Checking System* (DrChecks) at www.projnet.org as the primary means for recording and tracking resolution of QA comments. The A-E shall use this system. The Government will set up DrChecks for this project.

d. The QA team may not record all QA comments in DrChecks. They may provide comments on other media. If such is the case, the POC will be responsible for providing those comments to the A-E and the A-E shall be responsible for responding (and incorporating, if appropriate) into the final products.

5.1.2 Casual Reviews

The A-E firm is responsible for ensuring compliance with all requirements in this task order. The Government will examine all deliverables submitted by the A-E firm. If the Government finds deficiencies, the A-E firm shall amend and resubmit as necessary.

5.2 Conferences

The conferences scheduled for this task order are listed in the table below. Any additional conferences requiring travel shall be authorized by a Task Order Modification. Expenses will be reimbursed as denoted in the IDIQ Contract and must be based on current Joint Travel Regulations. Airline ticket cost shall be based on a minimum 7-day advance purchase.

Additional A-E discipline team members will be made available to support the on-site meetings via conference call. Limited participation is required. If required to meet expedited schedules, the A-E shall be prepared to accommodate over-the shoulder review comments.

Scheduled Conferences

Scheduled Conferences	Location	Duration	A-E Firm's Role
Kick-Off Meeting	Fort Worth District Office	1 Day	Req'd: PM, Civil, Structural, Electrical, Geotechnical Engineers
Project Site Visit	Weslaco	1 Days	Req'd: PM, Civil, Structural, Electrical, Geotechnical Engineers.
Design Charrette (w/In-Brief; Out-Brief)	RGV Sector HQ	1 Days	Req'd: PM, Civil, Structural, Electrical, Geotechnical Engineers and Cost Estimator.

Scheduled Conferences	Location	Duration	A-E Firm's Role
Value Engineering Workshop	Fort Worth District Office	5 Days	Req'd: PM, Civil, Structural, Electrical, Geotechnical Engineers and Cost Estimator and Independent Civil, Structural, Electrical, Geotechnical Engineers and Cost Estimator and Value Engineering Coordinator.
Parametric Design (35%) Review	Video Teleconference	3 Days	Req'd: PM, Civil, Structural, Electrical, Geotechnical Engineers and Cost Estimator.
Preliminary Design (65%) Review	Video Teleconference	3 Days	Req'd: PM, Civil, Structural, Electrical, Geotechnical Engineers and Cost Estimator.
Final Design (95%) Review	Video Teleconference	1 Days	Req'd: PM, Civil, Structural, Electrical, Geotechnical Engineers and Cost Estimator.
Corrected Final Design (100%) Review	Video Teleconference	1 Days	Req'd: PM, Civil, Structural, Electrical, Geotechnical Engineers and Cost Estimator.
Construction Pre-Proposal Conference	Weslaco Station, RGV	1 Day	Req'd: PM, Civil, Structural, Electrical, Geotechnical Engineers.

6.0 Base Bid Technical Criteria, Standards/Specifications, General Requirements and Government Furnished Information (Use Latest Editions Unless Otherwise Noted)

The A-E or Designer of Record shall use the following standards as applicable for this project.

a. Per DoD Directive Number 4270.5 dated 12 February 2005 paragraph 4.7, the Unified Facilities Criteria (UFC) and the Unified Facilities Guide Specifications (UFGS) shall be used to the greatest extent possible by all DoD Components for planning, design, and construction (restoration and modernization) of facilities, regardless of funding source, except for those facilities constructed by the National Guard on real estate neither owned by the United States nor under long-term lease to the United States, constructed by a State under Chapters 169 and 1803 of Title 10, US Code, and where title to the facility shall not be in the United States.

b. UFC 1-200-01: General Building Requirements.

c. International Building Code (IBC).

d. NFPA Life Safety Codes 13, 90A, 101.

e. ANSI/IEEE C2-2002, National Safety Electric Code.

f. U.S. Army Corps of Engineers Architectural and Engineering Instructions (AEI), (http://www.hnc.usace.army.mil/Missions/Engineering/TECHINFO.aspx)

g. US Army Corps of Engineers, Southwestern Division, Architectural and Engineering Instructions Manual (CESWD-AEIM) available at:
http://www.spa.usace.army.mil/portals/16/docs/ec/swd_aeim_2003.pdf

h. U.S. Army Corps of Engineers design criteria available at:
http://www.publications.usace.army.mil/USACEPublications/EngineerManuals.aspx

i. U.S. Army Corps of Engineers – Technical Instructions, TI 800-01, 20 July 1998 available at http://www.wbdg.org/ccb/ARMYCOE/COETI/ARCHIVES/ti800_01.pdf

j. Contract Administration Branch guidelines set forth at
http://www.publications.usace.army.mil/Portals/76/Publications/EngineerPamphlets/EP_715-1-7.pdf

k. Selection of Methods for the Reduction, Reuse, and Recycling of Demolition Waste.

l. Requirements to collect Geographic Information System (GIS) Data associated with construction projects.

m. All applicable Federal, State and industry standards, including those not referenced constitute design criteria for this project.

n. CBP Design Guide

o. DHS Tactical Infrastructure Standard Design Toolkit, 2012

p. Due to the project requirements, this project shall meet USACE flood risk management design standards utilizing Design and Construction of Levees (EM 1110-2-1913) and, defined as a Flood Wall, thus utilizing Retaining and Flood Walls (EM 1110-2-2502), Slope Stability (EM 1110-2-1902), Strength Design of Concrete Hydraulic Structures (EM 1110-2-2104).

The design of the project shall also meet the USACE hydrologic criteria for levees and floodwalls, as defined in Chapter 7 of Hydrologic Engineering Requirements for Flood Damage Reduction Studies (EM 1110-2-1419), and the performance of the project in terms of flood protection and FEMA certification shall be evaluated according to USACE's risk and uncertainty standards as defined in Risk-Based Analysis for Flood Damage Reduction Studies (EM 1110-2-1619).

q. **Government Reviews (Dr. Checks)** - CESWF uses USACE's web-based comment tracking system, Dr. Checks (located at www.projnet.org), as the primary means for recording and tracking resolution of QA comments. The Government's review will consist primarily of quality assurance (QA) checks and is typically completed in two weeks. It will concentrate on the design's functional aspects with limited technical review. The Government will prepare written comments for evaluation and response by the A-E after each major submittal. The A-E shall annotate and respond to the review comments in the development of data for the next design level. Responses such as "A-E requires additional information." or "A-E does not understand." are unacceptable. Annotations shall address specific corrective actions required. The A-E shall enter responses in advance of review conferences. Final annotation shall be completed within seven days of the conference. Hard copy distribution of final annotated comments is not required except that they shall be included by the A-E in the Design Analysis. The A-E maintains professional responsibility and liability for the deliverables. If, in the A-E's professional opinion, a QA comment either does not apply or the A-E disagrees with it, then the A-E shall not incorporate that comment into the deliverables. The A-E shall respond to the comment "Do not concur." And provide the commentator with an explanation of the disagreement. The A-E shall coordinate with the Government Project Manager to ensure the Government has set up rights for each pertinent member of the A-E team that needs to evaluate and respond to comments.

r. **Construction Specifications** - The A-E firm shall prepare all construction contract specifications with the following minimum sections: Signature Sheet with the A-E firm's seal, Table of Contents, Bid Schedule, ENG Form 4288, "Submittal Register", All **Division 02 through 48** technical specifications applicable to this project, List(s) of Government-Furnished, Contractor-Installed property, and any attachments the A-E firm determines are necessary to successfully construct this project.

The Government will prepare all Division 00 and Division 01 Specifications listed below and the A-E will assemble the final bid documents.

Additional Government Furnished Specification Sections

DIVISION 00		SWF Contracting
01 00 00.00 44	CONSTRUCTION SCHEDULE	SWF Specs Section
01 30 10.00 44	PARTNERING	
01 31 19.00 44	PROJECT MEETINGS	
01 32 01.00 10	PROJECT SCHEDULE	
01 33 00	SUBMITTAL PROCEDURES	
01 35 26	GOVERNMENT SAFETY REQUIREMENTS	
01 45 00.00 10	QUALITY CONTROL	
01 45 00.10 10	QUALITY CONTROL SYSTEM (QCS)	
01 58 00	PROJECT IDENTIFICATION	
01 78 00	CLOSEOUT SUBMITTALS	

Follow the guidance in the AEIM to prepare the specifications. One exception is the 2003 version of the AEIM refers to the old Construction Specifications Institute (CSI) 16-Division system. The A-E shall use the SpecsIntact software and the Unified Facilities Guide Specifications (UFGS) version (Latest Edition) of the SpecsIntact Guide Specifications in Master Format which is consistent with the 44-division format. In addition to guide specifications which must be downloaded from the internet, the A-E must determine if there are Fort Worth District (CESWF) guide specifications and Fort Worth District Supplements which must be considered. The CESWF guide specifications generally cover products and construction topics or processes that are not covered by the UFGS guide specifications. A few

cover topics that are covered by the CEGS. For these guides, it is preferred that the FW guides be used as the FW guides contain requirements and procedures tailored to local conditions. The CESWF Supplements to UFGS Guide specifications are local requirements mandated by the Southwestern Division or requested by the Army posts or Air Force bases that the District serves. These requirements must be inserted into the appropriate UFGS guide specification as applicable to the project.

ENG Form 4288 "Submittal Register." The ENG Form 4288 document identifies and classifies all items the construction contractor must submit to the Government to assure compliance with the contract specifications. These items include: SD-01 Preconstruction Submittals, SD-02 Shop Drawings, SD-03 Product Data, SD-04 Samples, SD-05 Design Data, SD-06 Test Reports, SD-07 Certificates, SD-08 Manufacturer's Instructions, SD-09 Manufacturer's Field Reports, SD-10 Operation and Maintenance Data, and SD-11 Closeout Submittals.

The A-E firm shall identify all required submittals and classify those submittals as Government Approved (GA) or For Information Only (FIO) in the appropriate specification sections and use the SpecsIntact software to generate the submittal register. The A-E firm shall verify the data in the submittal register so generated matches what the design team identifies in the specifications.

The A-E firm shall ensure that the Specifications are free of errors by using the "Process and Print/Publish" function in SpecsIntact. This function uses the tagging and edit features of the software to compile the completed contract specifications. It also provides a report listing technical errors *in the files* themselves (the feature will not catch improper engineering). The A-E firm shall use the report to correct any errors prior to submitting to the Government.

The A-E firm shall prepare the construction specifications utilizing the latest versions of the: SpecsIntact Software, United Facilities Guide Specifications, CESWF Guide Specifications and Supplements, and Guides and help manuals for above.

These are all available free of charge at the following web site:
http://www.wbdg.org/ccb/browse_cat.php
The A-E firm shall not recycle specifications as they may be out of date.

CADD Standards. The A-E shall comply with A/E/C CADD Standards
https://cadbimcenter.erdc.dren.mil/default.aspx?p=a&t=1&i=7
Fort Worth District Sheet/Title Block file can be found at:
https://cadbimcenter.erdc.dren.mil/doccenter.aspx?ID=0

All CADD drawing model file elements shall be produced full scale in CADD and named in compliance to A/E/C Standard.

SYMBOLOGY: All CADD element symbologies including level, weight, style, and color shall be compliant to A/E/C Standard.

The A-E is responsible for ensuring that resulting plots from pdf files are essentially identical to plots from the parent SpecsIntact and CADD files.

s. **Civil / GIS CADD GIS Requirements**
CADD and Electronic (paperless) Bid Process.
CADD Standards. The A-E shall comply with A/E/C CADD Standards
https://cadbimcenter.erdc.dren.mil/default.aspx?p=a&t=1&i=7
Fort Worth District Sheet/Title Block file can be found at:
https://cadbimcenter.erdc.dren.mil/DocCenter.aspx?ID=0

CADD. Critical to the design process is use of Computer-Aided Drafting and Design (CADD). The Government plans to solicit bids for construction of the project via an electronic format without providing printed plans and specifications to perspective bidders. All work to be accomplished, e.g., design work, surveying work, drawings, and details to be provided under this Task Order shall be accomplished and developed using computer-aided design and drafting (CADD) software and procedures conforming to criteria set forth elsewhere. All CADD final design deliverables shall be delivered in AutoCAD File format, version 2016 or newer.

All CADD drawing model file elements shall be produced full scale in CADD and named in compliance to A/E/C Standard.

SYMBOLOGY: All CADD element symbologies including level, weight, style, and color shall be compliant to A/E/C Standard.

Electronic Files/Paperless Solicitation. Electronic files provided to bidders shall be produced by the A-E as described herein and provided to potential bidders by the Government, via a Government Web site.

CAD files shall be converted to Adobe Acrobat "pdf" files by the A-E, which will require the A-E to purchase computer software for this purpose if they do not currently have this capability or alternately satisfy this requirement through a subcontractor (http://www.adobe.com/products/acrobat/readstep.html). These files will be readable utilizing the free Adobe Acrobat Reader.

The A-E is responsible for ensuring that resulting prints from pdf files are essentially identical to prints from the parent SpecsIntact and CADD files.

t. **Amendments to Bid Documents -** During the time that this project is advertised for construction contract bids, it may be necessary for the A-E to provide revisions to the advertised plans and specifications. Drawing revisions shall be provided as reissued or additional drawings. Reissued or additional drawings shall be incorporated into the bid documents, in the form of amendments. All amendments shall be incorporated into project specifications and drawings in accordance with the SWD Architect-Engineer Instructional Manual (AEIM), Chapter VIII. All plan sheets revised to incorporate amendments, along with

the CADD and PDF files shall be provided as specified or referenced herein. At the discretion of the Contracting Officer, drawing revisions may be provided in narrative form and sketches. Amendments within the project's scope, including design errors, omissions and conflicts will be done promptly, to prevent or minimize slipping of the proposal due date, with no increase in the A-E Task Order price. In most instances, the final amendment must be available to bidders ten days before the due date for technical and price proposals.

u. **Construction Contract Plans and Specifications (Contract CD) -** After award of the construction contract, the A-E shall incorporate any write-in amendments, put the construction contract number on the drawings, re-generate pdf files and replot a set of drawings on bond (vellums are no longer required) printed from the pdf files. The A-E shall provide two CD's each containing the modified CADD and .pdf drawing files. The Government will incorporate any write-in amendments to the specifications.

Data Standards - Spatial Data Standard for Facilities, Infrastructure and Environment (SDSFIE) current release shall be followed for Geospatial database structure and attributes to allow for data integration. CADD data shall be documented according to the current release of the Architecture, Engineering and Construction (AEC)/CADD standards. All GIS and CADD data will be documented in accordance with the Federal Geographic Data Committee (FGDC) Content Standards for Digital Geospatial Metadata.

Coordinate System Projection and Datum - All GIS data shall use the Universal Transverse Mercator Zone 15 North projection, World Geodetic System of 1984 (WGS84) datum, and the North American Vertical Datum of 1988 (NAVD88) using metric as the working units to ensure data alignment and accuracy.

CADD data shall be geo-referenced in the State Plane Coordinate System 1983, using the North American 1983 Geodetic Datum with Survey Feet as the working units. The projection, datum and coordinate system must be defined and then documented in the metadata for both CADD and GIS and provided whenever the data is distributed.

Deliverables - The CADD documents shall be in compliance with the A/E/C CADD Standards release 3. The A-E shall use the supplied Corps of Engineers title blocks and borders on all drawings with the appropriate firm name included within the title block area.

GIS deliverables shall be delivered in current GeoMedia file format or an ArcView shape file.

6.1 Proprietary Specifications and Requirements.

The A-E firm shall avoid specifying proprietary materials, equipment, systems, or other features of the work unless the A-E firm can demonstrate the use of such proprietary requirements will be advantageous to the Government (e.g. fire alarm transmitters and locksets that must be compatible with other products at the facility). The Government is prohibited from specifying proprietary requirements except in unusual circumstances which requires documentation and approval by the Contracting Agency Head or higher authority. If the A-E firm can show that a proprietary material

could be more advantageous to the Government, provide a description that includes the brand name and a general description of those salient physical, functional, or performance characteristics of the item.

6.2 Office Documents.

6.2.1 The table below lists the software products the Government uses for work products produced through general-purpose office software (e.g. VE Study, Design Analysis, Etc.):

Government Software Packages

File Type	Software	Publisher
Portable Document Format (*.pdf)	Acrobat	Adobe
Hypertext transfer protocol (http)	Internet Explorer	Microsoft
Word Processing (*.docx)	WORD	Microsoft
Spreadsheets (*.xlsx)	EXCEL	Microsoft
Slideshow presentations (*.pptx)	POWERPOINT	Microsoft
eMail client (*.msg)	OUTLOOK	Microsoft

6.2.2 The A-E firm shall ensure the documents they produce and submit to the Government are compatible with these software packages. The A-E firm shall be responsible for any file translation necessary to permit Government reading of documentation. The A-E firm shall consult with the Government on the use of software not on this list to ensure the Government can read the files the A-E firm will submit.

6.2.3 The A-E firm shall consider readability and reproducibility in the preparation of documents. This includes (but is not limited to) font sizes, organization and layout of documents, paper sizes, and use of color documentation. Not all stakeholders on this project have access to high-end reproduction equipment.

6.3 Units of Measure.

The A-E shall verify use of U.S. Customary, International, or other units in all work products.

6.4 Government Furnished Information and Materials

The table below lists the Government Furnished information and materials included in this task order. Contact the POC if more data is necessary for preparation of fee proposal or execution of the task order.

Government Furnished Materials

No.	Item	Source
1	Cost engineering database tables and software. Purchase or license may be required at cost to the A-E firm.	See also http://media.swf.usace.army.mil/pubdata/EC/eca/CostSpec.asp
2		

7.0 Option 1 D-B RFP 4 Packages

Project Description

7.1 Overview

The A-E Contractor will develop four design-build (D-B) RFPs for the replacement of Primary Boder Fence. **D-B RFP 1** is for the replacement of 14 miles of Border Infrastructure System (BIS) primary fence in San Diego Sector, CA. **D-B RFP 2** is for the replacement of 2 miles of primary fence in Tecate, CA. **D-B RFP 3** is for the replacement of vehicle fence with primary fence for 20 miles between Santa Theresa Port of Entry and Columbus, NM. **D-B RFP 4** is for the replacement of 4.16 miles of primary fence in El Paso, TX.

The A-E Contractor will coordinate these items with the CESWF Project Design Team, CBP personnel, and local utility providers. Overall guidance is provided by the CBP & TI Design Guides. See the CESWF AEIM for design deliverable requirements. The programmatic VE Study developed in the Base Bid will be applied to these RFPs.

The Construction Cost Estimate/Current Working Estimate will be provided by the A-E. A pre-proposal conference to finalize the project scope of work and aid in the preparation of the A-E proposal is recommended. Labor and travel costs are not reimbursed by the Government.

7.1.1 Product Scope

The Government requires the development of four D-B RFPs. The work includes:

a. SDC BIS – The A/E shall develop a Design-Build (DB) RFP to demolish and construct 14 miles of replacement primary fence and 35% design, in accordance with the SWD AEIM, for the San Diego Sector.

b. SDC Tecate – The A/E shall develop a Design-Build (DB) RFP to demolish and construct 2 miles of replacement primary fence and 35% design, in accordance with the SWD AEIM, for the San Diego Sector.

c. ELP 1 – The A/E shall develop a Design-Build (DB) RFP to demolish and construct 4.16 miles of replacement primary fence and 35% design, in accordance with the SWD AEIM, for the El Paso Sector.

d. ELP 2 – The A/E shall develop a Design-Build (DB) RFP to demolish vehicle fence and construct 20 miles of replacement primary fence and 35% design, in accordance with the SWD AEIM, for the El Paso Sector.

7.1.2 Project Scope

7.1.2.1 This Scope of Work includes all work necessary for the A-E firm to prepare four D-B RFPs, denoting complete and usable projects.

a. Design Quality Control Plan

b. Reviews and Conferences

c. Confirmation Notices, Status Reports

d. Drainage Study

e. Planimetric, Topographic Survey

f. Geotechnical Investigation: Subsurface Investigation Borings, In-Situ and Laboratory Testing, and Geotechnical Report

g. Design Charrette

h. Draft D-B RFP

i. Final D-B RFP

j. Corrected Final D-B RFP

k. Structural Analysis

l. Cost Estimates

(1) Site

(2) Landscaping, Fencing

(3) Parking, Roadways, Exterior Lighting

(4) Storm Drainage, Storm Water Pollution Prevention Plan

(5) Site Utilities

(6) Structural

(7) Electrical

(8) Lightning Protection, Grounding

m. Amendments

7.2 Construction Cost Limitation.

Develop Design-Build RFPs based on the results from the Base Bid Design Charrette. There is no CCL. The A-E is to develop the scope and cost estimate. All services associated with a Study, Project Definition Report or Design-Build RFP are considered non-design and are not subject to the 6% of Construction Cost Limitation statutory limit.

8.0 Option 1 Services

8.1 Quality Control Plan

The minimum requirements for the quality control plan (QCP) are given in ER 1110-1-12, *Quality Management*, and the project SOW. The QCP is the A-E firm's management plan(s) for execution of the contract. The QCP describes the way in which the A-E will produce the deliverables, the steps that will be taken to control quality, and an assigned point-of-contact within the A-E firm's organization responsible for ensuring compliance with the QCP. The QCP, modified to include any changes to the contract that occur, will be attached as an appendix to the design analysis.

8.2 A-E Services (See CESWD-AEIM for full descriptive requirements.)

a. Design Quality Control Plan (See Section 3.1)

b. Reviews and Conferences (See Section 5.2)

c. Confirmation Notices, Status Reports (See Section 3.3.1)

d. Design Charrette - The A-E shall conduct a Design Charrette to determine the customer's functional requirements. The Charrette Meeting shall include, but not be limited to, gathering and developing requirements concerning User activities, number of personnel, operations requirements, equipment requirements, utilities, security, Due Diligence studies, and general site requirements. Key discussion items shall include project/design alternatives, key 'show stoppers', and team buy-in for final design requirements. Minimum full time attendees include the Project Manager and Civil Engineer, By the end of the Charrette, the A-E shall develop conceptual site plans, and management out-brief. Final deliverables for the Charrette include meeting minutes, site plans, utility plans, and ENG Form 3086 Government estimate.

e. Drainage Study - Provide a drainage Study (separate from the Base Bid Drainage Study) for all of the areas identified in Appendix B to address the impacts of the proposed projects to the existing floodplains and design of drainage crossings due to the proposed improvements. The levee wall/fence shall be protected from erosion due to stormwater run-off and allow the conveyance of stormwater runoff across the site.

The Contractor shall prepare a programmatic drainage report for the impacts of the areas identified in Appendix B and meet with the appropriate USIBWC personnel to discuss this project and gain a clear understanding of the approval requirements for the design. The Contractor shall coordinate with the USIBWC and respond to any comments or questions. Additionally, the Contractor shall coordinate with the local officials and entities on the design and RFP package. USIBWC shall lead and be responsible for the coordination with the Mexican Section of USIBWC. The Contractor shall complete a Draft Drainage Report and submit this document with the RFP Submittals.

The programmatic drainage report will outline all hydrologic and hydraulic assumptions, drainage criteria, data, calculations, modeling, results and design recommendations. All drainage analyses and design for this program shall be performed in accordance with the requirements of the Department of Homeland Security's Tactical Infrastructure (TI) Design Standards (DHS, 2012). General drainage design criteria shall be used for sizing erosion protection and conveyance measures along with treaty requirements from the U.S. Section of the International Boundary and Water Commission (USIBWC) as discussed in the TI design standards.

The contractor shall be responsible for gathering all geospatial and hydrologic data necessary for the hydrologic and hydraulic analyses. This data shall include the seamless 30-meter elevation datasets, current aerial imagery, and the new survey data being collected for the project. The U.S. - Mexico Border Environmental Health Initiative (BEHI) created a seamless 30-meter elevation dataset for both sides of the border. The 30 meter 1 arc second USGS National Elevation Dataset (NED) was harmonized with the

Instituto Nacional de Estadística, Geografía e Informática (INEGI) 30 meter Continuo de Elevaciones Mexicano (CEM) to create a seamless elevation model for the U.S.-Mexico Border region. In addition the USGS applied the NED filtering and smoothing algorithms to INEGI's CEM to improve the dataset. Other geospatial data to be collected may include cities, urban areas, roads, watersheds, streams and rivers, and land cover. Most of the required geospatial data, including the seamless 30-meter elevation data, is available for download from the U.S. - Mexico BEHI website (BEHI, 2015).

The Contractor shall address the following requirements for hydrologic analyses:

Provide final drainage basin delineation maps showing all basins and sub-basins associated with the limits of construction. The contractor shall determine all locations where existing intermittent streams, rivers, or drainage paths cross the proposed project whose drainage areas are distinguishable in the 30-meter elevation data. For each drainage crossing location, the contractor shall delineate the contributing drainage area using seamless 30 m U.S. NED and Mexico CEM elevation data.
For each drainage crossing location, peak discharges shall be calculated for the watershed runoff hydrographs resulting from the 25-yr, 50-yr and 100-yr storm events. The methodology for calculating hydrologic flows at the project drainage crossings shall use the following three methods as minimum design standards:

a) For watersheds less than 1 square mile, the rational method can be used. This method is not applicable to larger drainage areas.
b) For watersheds between 1 square mile and 10 square miles, the Natural Resources Conservation Service method shall be used.
c) For watersheds larger than 10 square miles, the regression equations for the area shall be used. These equations are provided by the U. S. Geological Survey's (USGS) GLSNet software.

More detailed rainfall-runoff modeling in HEC-HMS may be substituted for any of the above minimum design methods. Since all of the above methods carry a great degree of uncertainty, the contractor shall calculate the 25-yr, 50-yr and 100-yr peak discharges with two or more of the four methods listed above and then adopt the maximum value for design. This approach is intended to improve the long term reliability of the drainage design.

USIBWC is responsible for ensuring that improvements on the U.S. side of the international land border with Mexico comply with treaty provisions as they relate to cross-border drainage. Impact to water surface elevation between the pre and post construction conditions due to any new TI, including border and access roads, being built along the land border between the U.S. and Mexico shall not exceed 6 inches in rural areas and 3 inches in urban areas using the 100-year storm event as required by USIBWC.

To verify the impacts are within the above mentioned limits, hydraulic models shall be developed. The models shall be developed with HEC-RAS software using the 100-yr discharges calculated in the hydrologic analyses of this scope. Existing conditions and

proposed conditions models shall be developed at each applicable drainage crossing, and the difference in water surface elevations shall be compared. The existing conditions cross sections shall be cut from the project survey data in the immediate area of the proposed project and from the 30-meter elevation data outside of the survey area. The proposed condition models shall demonstrate that the impacts of proposed structures to be built within the floodplains of these drainage paths will not exceed the rise in water surface elevation limits stated above. New construction or improvements more than 60 feet north of the border do not need to comply with the drainage treaty provisions mentioned above.

The Contractor shall address the following requirements for hydraulic analyses:

Determine local drainage runoff and/or sheet flow conditions as they cross the fence alignment.
Provide the final hydraulic calculations identifying the final discharge velocity and rise in water surface elevation associated with the selected fence type at each identified wash crossing. Maximum acceptable rise in water surface elevation shall be 6-inches at rural locations and 3-inches at urban locations along the International Boundary.
Provide final calculations showing depth of scour and/or long term degradation.
Provide details for protection against scour and/or long term degradation.
Provide details for culvert and/or low water crossings at each wash crossing which satisfies rise in water surface elevations stated above.
Provide hydrologic/hydraulic design and details showing that any/all cut and/or fill operations conducted within the project site do not adversely affect the natural drainage patterns across the site and satisfies the rise in water surface elevation stated above.
Provide hydraulic design and details for any other site drainage improvements required due to construction of the all-weather road.
Conduct hydraulic analysis using HEC-RAS modeling.

Based on the hydrologic and hydraulic analyses performed for the programmatic drainage report and in accordance with the TI design standards, the contractor shall make project design recommendations related to drainage conveyance through the fence, low water crossings, culverts, drainage gates and erosion control. The recommended types and sizes of these drainage features shall be specified in the final drainage report.

A drainage report will be prepared by the Contractor summarizing all hydrologic and hydraulic assumptions, drainage criteria, data, calculations, modeling, results and design recommendations. The report shall include maps of the locations of the identified drainage crossings and their contributing drainage areas. It shall specify the hydrologic method used at each location and include a summary of the calculations and assumptions used to calculate frequency peak discharges. The report shall also include maps of the hydraulic model cross sections and stream centerlines, summaries of the data and parameters, and assumptions used in the hydraulic models, and tabular summaries of the calculated water surface elevations for existing and proposed conditions. Drainage design recommendations, including types and sizes of drainage features, shall also be included in the report. In addition to the report, the contractor shall provide the government with a

digital copy of all models, hydrologic calculations, and all geospatial data collected or developed as part of this scope.

The Contractor shall deliver the draft drainage report, models, hydrologic calculations, and geospatial data to the USACE Program Manager (PgM) for review and comments. One round of responses to USACE comments shall be prepared by the Contractor for USACE review and concurrence. The Contractor shall be available via telephone to respond to any comments or questions regarding these documents and if required shall prepare a review comment resolution matrix (RCRM) documenting all review comments and corresponding resolution. The contractor shall prepare a draft final (90% design level) drainage report following USACE concurrence to the Contractor's response to comments. The Contractor shall deliver the draft final drainage report to the USACE Program Manager (PgM) for review and comments. One round of responses to USACE comments shall be prepared by the Contractor for USACE review and concurrence. The Contractor shall be available via telephone to respond to any comments or questions regarding these documents and if required shall a RCRM documenting all review comments and corresponding resolution. The Contractor shall prepare the final report (100% design level) following USACE concurrence to the Contractor's response to comments. The final report shall incorporate the resolved USACE comments and Contractor's response to comments, and be delivered in hard copy and electronic format.

Drainage Report References:

1. Department of Homeland Security (DHS) Customs and Border Protection, *Tactical Infrastructure Design Standards*, April 2012.
2. U.S. – Mexico Border Environmental Health Initiative (BEHI), http://borderhealth.cr.usgs.gov/datalayers.html, accessed May 2015.

f. Geotechnical Investigation - Provide services as set forth in the attached exhibit. The A-E shall conduct drilling operations, conduct limited on-site testing and deliver samples/boring logs to the testing facility. This study will provide site characteristics required to support the foundation design proposal. The A-E shall develop a sealed Geotechnical Report for all of the project locations in Appendix B. The A/E shall coordinate with the USACE Levee Safety Officer, or designee, to meet USACE, IBWC & FEMA requirements prior to drilling into any levee.

g. Planimetric, Topographic Surveys - A new topographic survey will need to be accomplished to supplant and update previously captured topographic information. This will ensure accuracy of the design for improvements and the drainage analysis. It is the contractor's responsibility to verify any existing data that is provided. This topographic survey effort should be done at the scale required for the proposed design improvements and drainage analysis (i.e. 1"=30' with 1'contours, etc). The survey data required for this project is not limited to the 150-foot wide project area, additional topographic information will be required for the drainage study, utility connection points, property boundaries, existing drainage

features, etc. Surveys will be conducted for all of the locations in Appendix B. Additional information is in the attached exhibit.

h. Utility Connection Points - Perform the necessary analysis to identify the characteristics of all required existing utilities. Determine connection points and new infrastructure requirements to service the project.

i. Structural Analysis – Provide a structural analysis as required to support this SOW.

j. Geotechnical Design Requirements – The A-E shall complete the design as denoted in the Geotechnical Investigation.

k. Construction Cost Estimates - A Parametric (PACES) estimate is required for the Project Definition Report, Parametric Design (35%) Documents or Draft D-B RFP. A MII Micro-Computer Aided Cost Estimate is required for the Final and Corrected Final D-B RFP, as well as, the 65%, 95% and 100% Design Data submittals. The requirements of this Task Order override and replace the requirements listed in the AEIM.

l. Design-Build Request for Proposal (Draft, Final, Corrected Final) - The A-E shall provide all needed information for the project based upon information gathered at the pre-design meeting and the Parametric Design (15%) submittals. Design documents used for advertising shall not be sealed by the A-E. Fully developed site plans showing parking, roadways, pedestrian pathways, building footprints, utility connections, etc. are not required. Only conceptual (35%) plans are required.
RFP Preparation and Source Selection - Complete the project through the 35% design. The A-E shall prepare technical sections of a design-build package for the facility and associated utilities as indicated in the project description. The A-E shall prepare the list of technical specifications, technical evaluation criteria, special phasing requirements (as determined), and reference drawings for the RFP. Immediately following the RFP Review conference the A-E will attend a VE workshop per the above requirements. The Government will prepare all Division 00 and 01 specifications unless otherwise noted.

RFP Content, Organization and Important Criteria - The RFP is to be prepared to meet all requirements for a Task Order Design-Build solicitation. Compliance with the Fort Worth District guidance for preparing documents for solicitation and construction award is required. Include with the Draft and Final RFP, an estimate of the construction time in calendar days to complete the project. The A-E shall incorporate phasing or sequencing requirements based upon user needs and/or design considerations. Derivation of the construction period shall be provided in accordance with SWD AEIM. The A-E shall include necessary information in the RFP to guide the Offerors regarding any phasing requirements for construction of the facility.
Construction Cost Limitations (CCL) - The estimated construction cost of this project is based upon anticipated funding as stated in this Statement of Work. Each project must be designed to provide a usable facility within the designated limitations of estimated construction contract price and scope. If additive, optional or deductive bid items must be included in the Bid Schedule for cost limitations, the A-E shall properly delineate these items in the drawings and specifications without additional compensation. Modification to plans, specifications, and the

construction cost estimate to reflect optional, deductive or additive bid items is included as part of this Contract as necessary to remain within funds available.

m. Cost and Scope Limitations - The A-E shall ensure the guidance outlined in the RFP requires the Offerors to provide a usable facility within the limitations of estimated construction contract price and scope. If at any time, the A-E finds that the estimated construction cost and scope of the project is likely to exceed the budget, the A-E shall report this fact to the Contracting Officer Representative. He shall also submit recommendations (associated costs) for reducing the project cost and/or scope to within the established limits.

n. Landscaping, Fencing – Specify Installation accepted plants for low maintenance and minimal irrigation.

o. Parking, Roadways, Exterior Lighting - .

p. Storm Drainage, Storm Water Pollution Prevention Plan – Shall be based on the Proposed Site Plan. Must be coordinated with Installation personnel to define local requirements.

q. Site Utilities - Following verification of existing utilities, new infrastructure requirements and points of connection to service the project must be determined by the A-E. Domestic Water, Sanitary Sewer, and Natural Gas lines must be sized to handle project loads and then terminate into existing mains. Electrical conductors shall be sized to handle project loads and then terminated into required electrical transmission equipment. Privatized utility requirements will be denoted.

r. Structural – Based on Installation specific wind, snow, and seismic loading.

s. Electrical - Coordinate design of the primary electrical distribution with the local utility provider, Installation personnel and the CESWF Project Design Team. Identify who and how power will be provided to the facility transformer primary and secondary sides.

t. Telephones, Computers, CCTV, Intrusion Detection, Mass Notification - .

u. Lightning Protection, Grounding -

v. Bidder Inquiries / Amendments - The A-E will respond to Bidder Inquiries via the ProjNet (Dr. Checks) system and provide updated Design Documents. The Government will issue the actual amendment.

w. Current Working Estimate - The current U. S. Army Corps of Engineers' Micro-Computer Aided Cost Estimating System MII (pronounced "M2") Version 4.0 Build III or most recent release, and compatible databases are required for all construction cost estimates produced under this Task Order. Contact CESWF-EC-AC Section Chief for information pertaining to obtaining the software. Each submittal must include an MII estimate based upon the current stage of design. The software database now requires purchase (with the costs subject to change), but current cost is approximately $1,000. This purchase is not made nor

controlled through CESWF-EC-AC. The current version of the software program will be provided to the A-E under contract who must then follow the prescribed licensing procedure to make use of the software for the term of this contract. Any other use of the software and the database can be utilized per the terms of the licensing agreement with the manufacturer. That licensing agreement is not under the control of CESWF-EC-AC. A PDF file of the project estimate must be submitted with the reports file. Hard copy requirements are denoted elsewhere. The estimate will not be complete until the bid opening estimate or final proposal estimate which includes all amendments and the completed bid or CLIN schedule in its final advertised format have been submitted to CESWF prior to the construction contractors' final proposal or bid deadline date shown in the solicitation or SF30. All pricing information included with any database or other source can and should be adapted, modified, changed, increased, or decreased as deemed necessary by the estimator to prepare an estimate representative of the project. The information contained in any database or any other cost information provided by the Fort Worth District office, CESWF-EC-AC, or obtained from other sources is not intended to represent fixed prices for ordering supplies, equipment, material, labor, nor any other construction component in the Government estimate. The estimator's professional judgment and decisions should be the definitive factor in determining fair and reasonable costs calculated for submittals and reviews. In MII, when submitting estimates for Military Projects, the Corps' current 20 system Work Breakdown Structure (WBS) will be used to structure the estimate (or PCCost 3086/1391 format when requested) unless CESWF-EC-AC determines that WBS is not applicable. For Civil Works Projects, the current Code of Accounts structure will be used unless the project is of a nature that does not warrant any of these estimate structures but that variance must be requested and then authorized by CESWF-EC-AC. Excel based estimates or other software forms of estimating are not acceptable unless the A-E has been approved by CESWF-EC-AC to provide back-up data or lower level costs in those formats. Final roll-up and mark-ups of those estimates will be entered in MII software for submittals though by utilizing the structure required by CESWF-EC-AC. The A-E shall be aware of and take precautionary measures as necessary to maintain the confidential nature of all cost estimates prepared under this Task Order. All estimate submittals shall be prepared in accordance with USACE instructions, regulations, and manuals for cost estimates as contained in EI 01D010, ER 1110-2-1302, and TM 5-800-4 and in compliance with EFARS 36.2. Costs will be developed using the latest standards and resources as applicable and including but not limited to the Tri-Services Estimating System, TRACES, MII, the MII Cost Book databases, commercial cost book databases, PAX newsletters 3.2.1 and 3.2.2, Davis-Bacon wage rates utilized as minimum values, commercially available reports, data, and local site specific or otherwise available sources of material, supplies, equipment, labor and other data. Compilation of the Current Working Estimate will incorporate the preceding sources and references utilizing the most recent available software as stated and/or other TRACES software which may include MII, MCACES, PACES, PCCost, risk analysis programs, or any of the other approved systems available to TRACES users. Any applicable software and databases which normally are distributed without cost by CESWF-EC-AC will be made available to the A-E by CESWF-EC-AC under the Task Order. Certain software programs and databases as described above and which also include PACES and RACER but are not limited to these mentioned herein may require purchase by the A-E and cannot be provided without cost to the A-E by CESWF-EC-

AC. Construction cost estimates for planning and budgeting purposes and for projects at 0 - 15% stages may be submitted by utilizing parametric software such as PACES and then summarizing the costs in the PCCost software if CESWF-EC-AC deems this acceptable. Also for any planning and budgeting purposes, PCCost software may be used to generate costs by utilizing the category codes and area cost factors in the PCCost database (which also includes Area Cost Factor data and adjustments). Updates to the database are available from CESWF-EC-AC. Electronic copies of all cost estimates in their native formats must be submitted along with any txt, pdf, doc, and rtf type report files generated to produce the hard copies.

x. Pre-Proposal Conference and Site Visit - A Pre-proposal Conference and Installation Site Visit shall be conducted for potential Offerors after the RFP is advertised. The A-E Project Manager shall be required to make a presentation of the general RFP development concept and project features at the beginning of the review conference. The A-E shall prepare the agenda and organize the conference so that all technical and functional issues can be addressed within the scheduled duration of the conference. The presentation is intended to provide the conference members with a clear understanding of the facility and how it functions. It can be expected that the participants can range up to a large group (up to 50 persons). The COE will chair the Conference and respond to offerors concerns at the conference. This is planned as a one-day meeting requiring travel the previous day and returning the day of the conference. The A-E shall provide detailed meeting minutes.

8.3 Administrative Tasks

8.3.1 Confirmation Notices

The A-E firm shall provide a record of all conferences, meeting, discussions, verbal directions, telephone conversations, etc., the A-E firm and/or their subcontractor(s) on matters related to this Task Order. The A-E firm shall identify all participating personnel, subjects discussed, and conclusions reached. The A-E firm shall title these records *Confirmation Notices* and shall number them sequentially. The A-E shall forward each Confirmation Notice via email to the Government POC within three working days. Communication via email is acceptable for minor, day-to-day correspondence.

8.3.2 Periodic Status Reports

The A-E firm shall provide a monthly status report to the Government POC. The report shall include: Current Status, Action Item List, and discussion of major issues.

9.0 Option 1 Schedule and Deliverables

9.1 Schedule

9.1.1 The Table below shows the schedule of services and deliverables covered in this task order. The A-E Contractor shall submit a schedule showing dates for all key submittals.

Option 1 Schedule of Services and Deliverables

KEY SERVICE OR DELIVERABLE	DUE DATE
Design Quality Control Plan	Within 7-days of T.O. Award.
Charrette	Within 14-days of T.O. Award.
Draft Drainage Studies	Within 30-days of T.O. Award.
Draft Planimetric, Topographic Surveys	Within 30-days of T.O. Award.
Draft Geotech Reports	Within 30-days of T.O. Award.
Four Draft D-B RFP Submittal	Within 30-days of T.O. Award.
Government review of Draft D-B RFP	Estimated 14-days after Draft Submittal.
Four Final D-B RFP Submittal	Within 60-days of T.O. Award.
Government review of Final D-B RFP	Estimated 14-days after Final Submittal.
Corrected Final D-B RFP Submittal	August 31, 2017
Dr. Check Bidder Inquiries	Within 2-days of posting in Dr. Checks
Construction RFP Amendment(s)	Within 3-days of notification of need for Amendment.
Construction Contract Award CD	Within 5-days of Construction Contract. Award.
Administrative Tasks	
Confirmation Notices (Email only – Numbered)	Within 3-days.
Monthly Status Report (pdf attachment via email)	Within 5-days from end of month

9.1.1 The days listed above are calendar days, including Saturdays, Sundays, and Federal holidays. The Government must receive the deliverable by the start of the next business day. If the due date falls on a Saturday, Sunday, or Federal holiday, the Government expects receipt by the start of the next business day. The A-E Contractor should assume 14-days for receipt of Government comments for review of major submittals. On-site review conferences or conference calls can be scheduled no sooner than 7-days following receipt of the submittal.

9.1.2 The Government may accept submittals prior to the due date provided they are complete and have received a quality control check. The Government will not accept partially complete submittals early or otherwise.

9.2 Deliverables

9.2.1 The table below shows the list of deliverables and their required distribution.

Deliverable Distribution Schedule

Deliverables	Number of Copies					
	A	B	C	D	E	F
Electronic Copies Only (Native and/or .pdf formats)						
Design Quality Control Plan	1	1	1	1	1	1
Minutes, Confirmation Notices, Status Reports	1	1	1	1	1	1
Four D-B RFPs (Draft, Final, Corrected Final)	1	1	1	1	1	1
Drainage Study (Draft & Final)	1	1	1	1	1	1
Geotech Report Study (Draft & Final)	1	1	1	1	1	1
Topo Survey (Draft & Final)	1	1	1	1	1	1
Cost Estimate (Draft & Final)	1	1	1			1
Bid Schedules	1	1	1			1
Contract Award Documents	1	1	1	1	1	1

9.2.2 The table below lists the Points of Contact that correspond to the letters (*A*, *B*, *C*, etc.) in deliverable distribution schedule above.

Address List

a. CESWF Design Manager (Address Stated Above)

b. CESWF COR (Address Stated Above)

c. CESWF PM (Steve Dill) [redacted]

d. CBP Office, (Address Stated Above)

e. BPFTI PMO, Scott Recinos, [redacted]

f. CESWG Area Office (Name provided after award), [redacted]

9.2.3 The A-E form shall coordinate submittal distribution with the POCs. The original transmittal letter will be addressed to the POC and will note that by information copy of that transmittal, appropriate review agencies are being provided copies of the work products and are requested to provide comments electronically to the POCs and to the A-E firm by the due date. The original transmittal letter and all copies will include a schedule showing data distribution.

10.0 Option 1 Reviews and Conferences

10.1 Quality Assurance Reviews

10.1.1 Formal Reviews

10.1.1.1 The Government will perform a formal Quality Assurance (QA) check on the following:

e. The POC will be responsible for providing the comments to the A-E and the A-E shall be responsible for responding to, and incorporating (if appropriate), all comments from reviewers into the deliverables.

f. The A-E maintains professional responsibility and liability for the deliverables. If, in the A-E's professional opinion, a QA comment either does not apply or the A-E disagrees with it, then the A-E shall not incorporate that comment into the deliverables. The A-E shall respond to the comment "Do not concur." and provide the comment submitter with an explanation of the disagreement. The A-E shall also be prepared to discuss the position with the reviewer.

g. CESWF uses USACE's web-based *Design Review and Checking System* (DrChecks) at www.projnet.org as the primary means for recording and tracking resolution of QA comments. The A-E shall use this system. The Government will set up DrChecks for this project.

h. The QA team may not record all QA comments in DrChecks. They may provide comments on other media. If such is the case, the POC will be responsible for providing those comments to the A-E and the A-E shall be responsible for responding (and incorporating, if appropriate) into the final products.

10.1.2 Casual Reviews

The A-E firm is responsible for ensuring compliance with all requirements in this task order. The Government will examine all deliverables submitted by the A-E firm. If the Government finds deficiencies, the A-E firm shall amend and resubmit as necessary.

10.2 Conferences

The conferences scheduled for this task order are listed in the table below. Any additional conferences requiring travel shall be authorized by a Task Order Modification. Expenses will be reimbursed as denoted in the IDIQ Contract and must be based on current Joint Travel Regulations. Airline ticket cost shall be based on a minimum 7-day advance purchase.

Additional A-E discipline team members will be made available to support the on-site meetings via conference call. Limited participation is required. If required to meet expedited schedules, the A-E shall be prepared to accommodate over-the shoulder review comments.

Scheduled Conferences

Scheduled Conferences	Location	Duration	A-E Firm's Role
Design Charrette (w/In-Brief; Out-Brief)	Fort Worth	5 Days	Req'd: PM, Geotech, Structural, Civil and Cost Estimator.
(4) Draft RFP Review	Video Teleconference	4 Days	Req'd: PM, Geotech, Structural, Civil and Cost Estimator.
(4) Final RFP Review	Video Teleconference	4 Days	Req'd: PM, Geotech, Structural, Civil and Cost Estimator.
(4) Corrected Final RFP Review	Video Teleconference	4 Days	Req'd: PM, Geotech, Structural, Civil and Cost Estimator.
Construction Pre-Proposal Conference	Video Teleconference	1 Day	Req'd: PM, Geotech, Structural, Civil.

11.0 Option 1 Technical Criteria, Standards/Specifications, General Requirements and Government Furnished Information (Use Latest Editions Unless Otherwise Noted)

The A-E or Designer of Record shall use the following standards as applicable for this project.

a. Per DoD Directive Number 4270.5 dated 12 February 2005 paragraph 4.7, the Unified Facilities Criteria (UFC) and the Unified Facilities Guide Specifications (UFGS) shall be used to the greatest extent possible by all DoD Components for planning, design, and construction (restoration and modernization) of facilities, regardless of funding source, except for those facilities constructed by the National Guard on real estate neither owned by the United States nor under long-term lease to the United States, constructed by a State under Chapters 169 and 1803 of Title 10, US Code, and where title to the facility shall not be in the United States.

b. UFC 1-200-01: General Building Requirements.

c. International Building Code (IBC).

d. NFPA Life Safety Codes 13, 90A, 101.

e. ANSI/IEEE C2-2002, National Safety Electric Code.

f. U.S. Army Corps of Engineers Architectural and Engineering Instructions (AEI), (http://www.hnc.usace.army.mil/Missions/Engineering/TECHINFO.aspx)

g. US Army Corps of Engineers, Southwestern Division, Architectural and Engineering Instructions Manual (CESWD-AEIM) available at: http://www.spa.usace.army.mil/portals/16/docs/ec/swd_aeim_2003.pdf

h. U.S. Army Corps of Engineers design criteria available at: http://www.publications.usace.army.mil/USACEPublications/EngineerManuals.aspx

i. U.S. Army Corps of Engineers – Technical Instructions, TI 800-01, 20 July 1998 available at http://www.wbdg.org/ccb/ARMYCOE/COETI/ARCHIVES/ti800_01.pdf

j. Contract Administration Branch guidelines set forth at http://www.publications.usace.army.mil/Portals/76/Publications/EngineerPamphlets/EP_715-1-7.pdf

k. Selection of Methods for the Reduction, Reuse, and Recycling of Demolition Waste.

l. Requirements to collect Geographic Information System (GIS) Data associated with construction projects.

m. All applicable Federal, State and industry standards, including those not referenced constitute design criteria for this project.

n. CBP Design Guide

o. DHS Tactical Infrastructure Standard Design Toolkit, 2012

p. Due to the project requirements, this project shall meet USACE flood risk management design standards utilizing Design and Construction of Levees (EM 1110-2-1913) and, defined as a Flood Wall, thus utilizing Retaining and Flood Walls (EM 1110-2-2502), Slope Stability (EM 1110-2-1902), Strength Design of Concrete Hydraulic Structures (EM 1110-2-2104).

The design of the project shall also meet the USACE hydrologic criteria for levees and floodwalls, as defined in Chapter 7 of Hydrologic Engineering Requirements for Flood Damage Reduction Studies (EM 1110-2-1419), and the performance of the project in terms of flood protection and FEMA certification shall be evaluated according to USACE’s risk and

uncertainty standards as defined in Risk-Based Analysis for Flood Damage Reduction Studies (EM 1110-2-1619).

q. Requirements to collect Geographic Information System (GIS) Data associated with construction projects.

r. All applicable Federal, State and industry standards, including those not referenced constitute design criteria for this project.

s. **Government Reviews (Dr. Checks)** - CESWF uses USACE's web-based comment tracking system, Dr. Checks (located at www.projnet.org), as the primary means for recording and tracking resolution of QA comments. The Government's review will consist primarily of quality assurance (QA) checks and is typically completed in two weeks. It will concentrate on the design's functional aspects with limited technical review. The Government will prepare written comments for evaluation and response by the A-E after each major submittal. The A-E shall annotate and respond to the review comments in the development of data for the next design level. Responses such as "A-E requires additional information." or "A-E does not understand." are unacceptable. Annotations shall address specific corrective actions required. The A-E shall enter responses in advance of review conferences. Final annotation shall be completed within seven days of the conference. Hard copy distribution of final annotated comments is not required except that they shall be included by the A-E in the Design Analysis. The A-E maintains professional responsibility and liability for the deliverables. If, in the A-E's professional opinion, a QA comment either does not apply or the A-E disagrees with it, then the A-E shall not incorporate that comment into the deliverables. The A-E shall respond to the comment "Do not concur." And provide the commentator with an explanation of the disagreement. The A-E shall coordinate with the Government Project Manager to ensure the Government has set up rights for each pertinent member of the A-E team that needs to evaluate and respond to comments.

t. **Specifications** -

The A-E will prepare all Division 01 Specifications and assemble the final Request for Proposal.

Civil / GIS CADD GIS Requirements
CADD and Electronic (paperless) Bid Process.
CADD Standards. The A-E shall comply with A/E/C CADD Standards
https://cadbimcenter.erdc.dren.mil/default.aspx?p=a&t=1&i=7

Fort Worth District Sheet/Title Block file can be found at:
https://cadbimcenter.erdc.dren.mil/DocCenter.aspx?ID=0

CADD. Critical to the design process is use of Computer-Aided Drafting and Design (CADD). The Government plans to solicit bids for construction of the project via an electronic format without providing printed plans and specifications to perspective bidders. All work to

be accomplished, e.g., design work, surveying work, drawings, and details to be provided under this Task Order shall be accomplished and developed using computer-aided design and drafting (CADD) software and procedures conforming to criteria set forth elsewhere. All CADD final design deliverables shall be delivered in AutoCAD File format, version 2016 or newer.

All CADD drawing model file elements shall be produced full scale in CADD and named in compliance to A/E/C Standard.

SYMBOLOGY: All CADD element symbologies including level, weight, style, and color shall be compliant to A/E/C Standard.

Electronic Files/Paperless Solicitation. Electronic files provided to bidders shall be produced by the A-E as described herein and provided to potential bidders by the Government, via a Government Web site.

CAD files shall be converted to Adobe Acrobat "pdf" files by the A-E, which will require the A-E to purchase computer software for this purpose if they do not currently have this capability or alternately satisfy this requirement through a subcontractor (http://www.adobe.com/products/acrobat/readstep.html). These files will be readable utilizing the free Adobe Acrobat Reader.

The A-E is responsible for ensuring that resulting prints from pdf files are essentially identical to prints from the parent SpecsIntact and CADD files.

u. **Amendments to Bid Documents** - During the time that this project is advertised for construction contract bids, it may be necessary for the A-E to provide revisions to the advertised plans and specifications. Drawing revisions shall be provided as reissued or additional drawings. Reissued or additional drawings shall be incorporated into the bid documents, in the form of amendments. All amendments shall be incorporated into project specifications and drawings in accordance with the SWD Architect-Engineer Instructional Manual (AEIM), Chapter VIII. All plan sheets revised to incorporate amendments, along with the CADD and PDF files shall be provided as specified or referenced herein. At the discretion of the Contracting Officer, drawing revisions may be provided in narrative form and sketches. Amendments within the project's scope, including design errors, omissions and conflicts will be done promptly, to prevent or minimize slipping of the proposal due date, with no increase in the A-E Task Order price. In most instances, the final amendment must be available to bidders ten days before the due date for technical and price proposals.

11.1 Proprietary Specifications and Requirements.

The A-E firm shall avoid specifying proprietary materials, equipment, systems, or other features of the work unless the A-E firm can demonstrate the use of such proprietary requirements will be advantageous to the Government (e.g. fire alarm transmitters and locksets that must be compatible with other products at the facility). The Government is prohibited from specifying proprietary

requirements except in unusual circumstances which requires documentation and approval by the Contracting Agency Head or higher authority. If the A-E firm can show that a proprietary material could be more advantageous to the Government, provide a description that includes the brand name and a general description of those salient physical, functional, or performance characteristics of the item.

11.2 Office Documents.

11.2.1 The table below lists the software products the Government uses for work products produced through general-purpose office software (e.g. VE Study, Design Analysis, Etc.):

Government Software Packages

File Type	Software	Publisher
Portable Document Format (*.pdf)	Acrobat	Adobe
Hypertext transfer protocol (http)	Internet Explorer	Microsoft
Word Processing (*.docx)	WORD	Microsoft
Spreadsheets (*.xlsx)	EXCEL	Microsoft
Slideshow presentations (*.pptx)	POWERPOINT	Microsoft
eMail client (*.msg)	OUTLOOK	Microsoft

11.2.2 The A-E firm shall ensure the documents they produce and submit to the Government are compatible with these software packages. The A-E firm shall be responsible for any file translation necessary to permit Government reading of documentation. The A-E firm shall consult with the Government on the use of software not on this list to ensure the Government can read the files the A-E firm will submit.

11.2.3 The A-E firm shall consider readability and reproducibility in the preparation of documents. This includes (but is not limited to) font sizes, organization and layout of documents,

paper sizes, and use of color documentation. Not all stakeholders on this project have access to high-end reproduction equipment.

11.3 Units of Measure.

The A-E shall verify use of U.S. Customary, International, or other units in all work products.

11.4 Government Furnished Information and Materials

The table below lists the Government Furnished information and materials included in this task order. Contact the POC if more data is necessary for preparation of fee proposal or execution of the task order.

Government Furnished Materials

No.	Item	Source
1	Cost engineering database tables and software. Purchase or license may be required at cost to the A-E firm.	See also http://media.swf.usace.army.mil/pubdata/EC/eca/CostSpec.asp
2	Div 00	SWF Contracting

12. Option 2 Update to the Tactical Infrastructure (TI) Standard Design Toolkit

Project Description

12.1 Overview

The objective is to update the TI Standard Design Toolkit with levee wall and freestanding wall standard designs to be used throughout the program.

12.1.1 Product Scope

The Government requires the TI Standard Design Toolkit to be updated to include levee wall and freestanding wall designs so that they can be used throughout the program as standard designs.

12.1.2 Project Scope

12.1.2.1 This Scope of Work includes all work necessary for the A-E firm to update the TI Standard Design Toolkit.

n. Design Quality Control Plan

o. Reviews and Conferences

p. Confirmation Notices, Status Reports

q. TI Standard Design Toolkit Update Document

r. Cost Estimates

(1) Site

(2) Landscaping, Fencing

(3) Parking, Roadways, Exterior Lighting

(4) Storm Drainage, Storm Water Pollution Prevention Plan

(5) Site Utilities

(6) Structural

12.2 Option 2 Construction Cost Limitation.

All services associated with a Study, Project Definition Report or Design-Build RFP are considered non-design and are not subject to the 6% of Construction Cost Limitation statutory limit.

13.0 Option 2 Services

13.1 Quality Control Plan

The minimum requirements for the quality control plan (QCP) are given in ER 1110-1-12, *Quality Management*, and the project SOW. The QCP is the A-E firm's management plan(s) for execution of the contract. The QCP describes the way in which the A-E will produce the deliverables, the steps that will be taken to control quality, and an assigned point-of-contact within the A-E firm's organization responsible for ensuring compliance with the QCP. The QCP, modified to include any changes to the contract that occur, will be attached as an appendix to the design analysis.

13.2 A-E Services (See CESWD-AEIM for full descriptive requirements.)

a. Design Quality Control Plan (See Section 3.1)

b. Reviews and Conferences (See Section 5.2)

c. Confirmation Notices, Status Reports (See Section 3.3.1)

d. TI Standard Design Toolkit Update Document –

1. Wall Types

The Contractor shall compile and consolidate freestanding and levee floodwall requirements of the Border Patrol-HQ. The Contractor will review the following wall types (reference 3a):

- W-1
- W-2
- LW-1
- LW-2

The Contractor will review available Designs, As-Built Drawings, field inspections, and interviews to update wall types above. The Contractor shall look for design improvements, anti-scale & anti-perch requirements, and make recommendations for areas of value engineering. The details shall include up to two typical foundation types recommended based upon the geotechnical report and engineering analysis. One set of assumed soil parameters will be used. The Contractor will evaluate material coating possibilities that are applicable border wide and in each Sector, analyze the life cycle benefits, provide life cycle cost analysis, and provide any treatment recommendations, if any, to the Government for inclusion in the notes. An interim design comment and review teleconference meeting will be held for this task. A Bill of Materials (BOM) will be provided for each wall/fence type. This will be used for Maintenance & Repair Planning. The Contractor will document the process and reviews required for levee wall construction.

1. Standard Light Details

The Contractor will compile and consolidate security lighting requirements of the Border Patrol –HQ for the 4 types of wall added as well as the 150’ enforcement zone. The Contractor will develop standard lighting details that will at a minimum include: pole height & cross-section, power requirements and light assembly details. Standard lighting details could be difference when enforcement zone is in the floodplain. The Contractor will provide photometric data showing area illuminated and lighting level provided per single pole/fixture combination. Coordination is required to determine if USFWS illumination criteria for the levee wall lighting system will be required to be included as a design consideration to minimize impacts to the wildlife corridor. A Bill of Materials (BOM) will be provided for standard lights, this will be used for Maintenance & Repair Planning. An interim design comment & review telecom meeting will be held for this task. The Contractor will provide standard design & construction specifications related to this task in standard USACE specification format.

LEED Considerations - The Contractor will analyze LEED design criteria and evaluate implementation possibilities. The Contractor will investigate the potential for solar power, LED lamps, and other LEED recommended equipment or practices. The Contractor will provide matrices of recommended LEED items, LEED points, impacts to requirements, and a cost benefit analysis.

2. Road Standards

The Contractor will review road requirements of Border Patrol-HQ for in the floodplain and on top of the crest of the levee. The Contractor will review available As-Built Drawings, field inspection analysis, and interviews to determine if any additional standards are required to be created or revised to accommodate those 2 locations. The current TI Standard Design Toolkit road types are below. The Contractor will update standard road details & cross-sections for each road type as required. The following will be standard road types:

- TI Construction, Maintenance & Repair Road
- All-Weather Patrol Road
- Paved Patrol Road
- Articulated Concrete Mat Low Water Crossing
- Cast in Place Low Water Crossings

The Contractor will consider life cycle costs when developing the standard road designs. The designs shall include consideration & notes for the following:

- Recommended maximum vehicle characteristics to include maintenance & construction equipment, such as gross weight, speed of vehicles, etc,
- Road Width & Turn Outs for Border Patrol & Construction equipment along with shoulders.
- Traffic Volume
- Cross Slopes for all road types
- Site adapt options (e.g. for steep slopes add cement stabilization to all-weather road)
- Switchback requirements
- Typical signage (Task 6.9)
- Guardrail & other safety requirements (Task 6.10)

The Contractor will create Standard Road Specifications & Design Analysis to reflect the road types under this task. On the embankment side of the access road, access ramps to drive from the levee toe, on the embankment, and to the top of the embankment. IBWC and CBP will provide operational requirements for levee access ramps to the south side of the fence/floodwall. A Bill of Materials (BOM) will be provided for each road type, this will be used for Maintenance & Repair Planning. An interim design comment & review telecom meeting will be held for each road type in this task. Meetings can be consolidated if multiple products are available for review.

3. Gates

The Contractor shall develop standard designs for vehicle, pedestrian and drainage gates for the 4 wall types added herein. The Contractor shall compile and review gate requirements for vehicle, pedestrian and drainage gates for levee and freestanding wall types. The Contractor will review available As-Built Drawings, field inspection analysis, and interviews to develop & update the TI Standard Design Toolkit. Government will furnish RGV Phase 1 Gates Standard Design – Design Analysis Report for consideration in developing standard gate designs.

An interim design comment & review telecom meeting will be held for this task. Sliding gate standards shall be developed through performance specifications which will include motorization & power requirements. Non-sliding gate standards shall be developed through details and specifications.

e. Current Working Estimate – PACES Estimates will be provided for each TI Standard Design Toolkit element added as part of the Standard Design

13.3 Administrative Tasks

13.3.1 Confirmation Notices

The A-E firm shall provide a record of all conferences, meeting, discussions, verbal directions, telephone conversations, etc., the A-E firm and/or their subcontractor(s) on matters related to this Task Order. The A-E firm shall identify all participating personnel, subjects discussed, and conclusions reached. The A-E firm shall title these records *Confirmation Notices* and shall number them sequentially. The A-E shall forward each Confirmation Notice via email to the Government POC within three working days. Communication via email is acceptable for minor, day-to-day correspondence.

13.3.2 Periodic Status Reports

The A-E firm shall provide a monthly status report to the Government POC. The report shall include: Current Status, Action Item List, and discussion of major issues.

14.0 Option 2 Schedule and Deliverables

14.1 Schedule

14.1.1 The Table below shows the schedule of services and deliverables covered in this task order. The A-E Contractor shall submit a schedule showing dates for all key submittals.

Option 2 Schedule of Services and Deliverables

KEY SERVICE OR DELIVERABLE	DUE DATE
Design Quality Control Plan	Within 7-days of T.O. Award.
Kick-off meeting	Within 14-days of T.O. Award.
Draft TI Standard Toolkit Document and PACES Estimate	Within 120 days of Option Award
Government review of Draft submittals	Estimated 14-days after Draft Submittal.
Final TI Standard Toolkit Document and PACES Estimate	Within 150 days of Option Award
Government review of Final submittals	Estimated 14-days after Draft Submittal.
Corrected Final TI Standard Toolkit Document and PACES Estimate	Within 180 days of Option Award
Administrative Tasks	
Confirmation Notices (Email only – Numbered)	Within 3-days.
Monthly Status Report (pdf attachment via email)	Within 5-days from end of month

14.1.1 The days listed above are calendar days, including Saturdays, Sundays, and Federal holidays. The Government must receive the deliverable by the start of the next business day. If the due date falls on a Saturday, Sunday, or Federal holiday, the Government expects receipt by the start of the next business day. The A-E Contractor should assume 14-days for receipt of Government comments for review of major submittals. On-site review conferences or conference calls can be scheduled no sooner than 7-days following receipt of the submittal.

14.1.2 The Government may accept submittals prior to the due date provided they are complete and have received a quality control check. The Government will not accept partially complete submittals early or otherwise.

14.2 Deliverables

14.2.1 The table below shows the list of deliverables and their required distribution.

Deliverable Distribution Schedule

Deliverables	Number of Copies A	B	C	D	E
Electronic Copies Only (Native and/or .pdf formats)					
Quality Control Plan	1	1	1	1	1
Minutes, Confirmation Notices, Status Reports	1	1	1	1	1
TI Design Standard Toolkit Document (Draft and Final)	1	1	1	1	1
PACES Cost Estimate (Draft & Final & Corrected Final)	1	1	1	1	1

14.2.2 The table below lists the Points of Contact that correspond to the letters (*A, B, C,* etc.) in deliverable distribution schedule above.

Address List

a. CESWF Design Manager (Address Stated Above)

b. CESWF COR (Address Stated Above)

c. CESWF PM (Steve Dill) 819 Taylor Street, CESWF-ECSO-T, Fort Worth TX, 76102

d. CBP Office, (Address Stated Above)

e. BPFTI PMO, Scott Recinos, 7940 Jones Branch Drive, McLean, VA 22102

14.2.3 The A-E form shall coordinate submittal distribution with the POCs. The original transmittal letter will be addressed to the POC and will note that by information copy of that transmittal, appropriate review agencies are being provided copies of the work products and are requested to provide comments electronically to the POCs and to the A-E firm by the due date. The original transmittal letter and all copies will include a schedule showing data distribution.

15.0 Option 2 Reviews and Conferences

15.1 Quality Assurance Reviews

15.1.1 Formal Reviews

15.1.1.1 The Government will perform a formal Quality Assurance (QA) check on the following:

a. The POC will be responsible for providing the comments to the A-E and the A-E shall be responsible for responding to, and incorporating (if appropriate), all comments from reviewers into the deliverables.

b. The A-E maintains professional responsibility and liability for the deliverables. If, in the A-E's professional opinion, a QA comment either does not apply or the A-E disagrees with it, then the A-E shall not incorporate that comment into the deliverables. The A-E shall respond to the comment "Do not concur." and provide the comment submitter with an explanation of the disagreement. The A-E shall also be prepared to discuss the position with the reviewer.

c. CESWF uses USACE's web-based *Design Review and Checking System* (DrChecks) at www.projnet.org as the primary means for recording and tracking resolution of QA comments. The A-E shall use this system. The Government will set up DrChecks for this project.

d. The QA team may not record all QA comments in DrChecks. They may provide comments on other media. If such is the case, the POC will be responsible for providing those

comments to the A-E and the A-E shall be responsible for responding (and incorporating, if appropriate) into the final products.

15.1.2 Casual Reviews

The A-E firm is responsible for ensuring compliance with all requirements in this task order. The Government will examine all deliverables submitted by the A-E firm. If the Government finds deficiencies, the A-E firm shall amend and resubmit as necessary.

15.2 Conferences

The conferences scheduled for this task order are listed in the table below. Any additional conferences requiring travel shall be authorized by a Task Order Modification. Expenses will be reimbursed as denoted in the IDIQ Contract and must be based on current Joint Travel Regulations. Airline ticket cost shall be based on a minimum 7-day advance purchase.

Additional A-E discipline team members will be made available to support the on-site meetings via conference call. Limited participation is required. If required to meet expedited schedules, the A-E shall be prepared to accommodate over-the shoulder review comments.

Scheduled Conferences

Scheduled Conferences	Location	Duration	A-E Firm's Role
Kick-Off Meeting	Fort Worth	1 Day	Req'd: PM, Geotech, Structural, Civil and Cost Estimator.
Draft Toolkit Review	Teleconference	1 Day	Req'd: PM, Geotech, Structural, Civil and Cost Estimator.
Final Toolkit Review	Teleconference	1 Day	Req'd: PM, Geotech, Structural, Civil and Cost Estimator.

16.0 Option 2 Technical Criteria, Standards/Specifications, General Requirements and Government Furnished Information (Use Latest Editions Unless Otherwise Noted)

The A-E or Designer of Record shall use the following standards as applicable for this project.

a. Per DoD Directive Number 4270.5 dated 12 February 2005 paragraph 4.7, the Unified Facilities Criteria (UFC) and the Unified Facilities Guide Specifications (UFGS) shall be used to the greatest extent possible by all DoD Components for planning, design, and construction (restoration and modernization) of facilities, regardless of funding source, except for those facilities constructed by the National Guard on real estate neither owned by the United States nor under long-term lease to the United States, constructed by a State under Chapters 169 and 1803 of Title 10, US Code, and where title to the facility shall not be in the United States.

b. UFC 1-200-01: General Building Requirements.

c. International Building Code (IBC).

d. NFPA Life Safety Codes 13, 90A, 101.

e. ANSI/IEEE C2-2002, National Safety Electric Code.

f. U.S. Army Corps of Engineers Architectural and Engineering Instructions (AEI), (http://www.hnc.usace.army.mil/Missions/Engineering/TECHINFO.aspx)

g. US Army Corps of Engineers, Southwestern Division, Architectural and Engineering Instructions Manual (CESWD-AEIM) available at:
http://www.spa.usace.army.mil/portals/16/docs/ec/swd_aeim_2003.pdf

h. U.S. Army Corps of Engineers design criteria available at:
http://www.publications.usace.army.mil/USACEPublications/EngineerManuals.aspx

i. U.S. Army Corps of Engineers – Technical Instructions, TI 800-01, 20 July 1998 available at http://www.wbdg.org/ccb/ARMYCOE/COETI/ARCHIVES/ti800_01.pdf

j. Contract Administration Branch guidelines set forth at
http://www.publications.usace.army.mil/Portals/76/Publications/EngineerPamphlets/EP_715-1-7.pdf

k. Selection of Methods for the Reduction, Reuse, and Recycling of Demolition Waste.

l. Requirements to collect Geographic Information System (GIS) Data associated with construction projects.

m. All applicable Federal, State and industry standards, including those not referenced constitute design criteria for this project.

n. CBP Design Guide

o. DHS Tactical Infrastructure Standard Design Toolkit, 2012

p. Due to the project requirements, this project shall meet USACE flood risk management design standards utilizing Design and Construction of Levees (EM 1110-2-1913) and, defined as a Flood Wall, thus utilizing Retaining and Flood Walls (EM 1110-2-2502), Slope Stability (EM 1110-2-1902), Strength Design of Concrete Hydraulic Structures (EM 1110-2-2104).

The design of the project shall also meet the USACE hydrologic criteria for levees and floodwalls, as defined in Chapter 7 of Hydrologic Engineering Requirements for Flood Damage Reduction Studies (EM 1110-2-1419), and the performance of the project in terms of flood protection and FEMA certification shall be evaluated according to USACE's risk and uncertainty standards as defined in Risk-Based Analysis for Flood Damage Reduction Studies (EM 1110-2-1619).

q. Requirements to collect Geographic Information System (GIS) Data associated with construction projects.

r. All applicable Federal, State and industry standards, including those not referenced constitute design criteria for this project.

s. **Government Reviews (Dr. Checks)** - CESWF uses USACE's web-based comment tracking system, Dr. Checks (located at www.projnet.org), as the primary means for recording and tracking resolution of QA comments. The Government's review will consist primarily of quality assurance (QA) checks and is typically completed in two weeks. It will concentrate on the design's functional aspects with limited technical review. The Government will prepare written comments for evaluation and response by the A-E after each major submittal. The A-E shall annotate and respond to the review comments in the development of data for the next design level. Responses such as "A-E requires additional information." or "A-E does not understand." are unacceptable. Annotations shall address specific corrective actions required. The A-E shall enter responses in advance of review conferences. Final annotation shall be completed within seven days of the conference. Hard copy distribution of final annotated comments is not required except that they shall be included by the A-E in the Design Analysis. The A-E maintains professional responsibility and liability for the deliverables. If, in the A-E's professional opinion, a QA comment either does not apply or the A-E disagrees with it, then the A-E shall not incorporate that comment into the deliverables. The A-E shall respond to the comment "Do not concur." And provide the commentator with an explanation of the disagreement. The A-E shall coordinate with the Government Project Manager to ensure the Government has set up rights for each pertinent member of the A-E team that needs to evaluate and respond to comments.

16.1 Proprietary Specifications and Requirements.

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Contracting Agency Head or higher authority. If the A-E firm can show that a proprietary material could be more advantageous to the Government, provide a description that includes the brand name and a general description of those salient physical, functional, or performance characteristics of the item.

16.2 Office Documents.

16.2.1 The table below lists the software products the Government uses for work products produced through general-purpose office software (e.g. VE Study, Design Analysis, Etc.):

Government Software Packages

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Hypertext transfer protocol (http)	Internet Explorer	Microsoft
Word Processing (*.docx)	WORD	Microsoft
Spreadsheets (*.xlsx)	EXCEL	Microsoft
Slideshow presentations (*.pptx)	POWERPOINT	Microsoft
eMail client (*.msg)	OUTLOOK	Microsoft

16.2.2 The A-E firm shall ensure the documents they produce and submit to the Government are compatible with these software packages. The A-E firm shall be responsible for any file translation necessary to permit Government reading of documentation. The A-E firm shall consult with the Government on the use of software not on this list to ensure the Government can read the files the A-E firm will submit.

16.2.3 The A-E firm shall consider readability and reproducibility in the preparation of documents. This includes (but is not limited to) font sizes, organization and layout of documents, paper sizes, and use of color documentation. Not all stakeholders on this project have access to high-end reproduction equipment.

16.3 Units of Measure.

The A-E shall verify use of U.S. Customary, International, or other units in all work products.

16.4 Government Furnished Information and Materials

The table below lists the Government Furnished information and materials included in this task order. Contact the POC if more data is necessary for preparation of fee proposal or execution of the task order.

Government Furnished Materials

No.	Item	Source
1	Cost engineering database tables and software. Purchase or license may be required at cost to the A-E firm.	See also http://media.swf.usace.army.mil/pubdata/EC/eca/CostSpec.asp

17.0 Option 3 D-B RFP for RGV (7.9 Miles)

Project Description

17.1 Overview

The project is approximately 7.9 miles of levee wall construction in Rio Grande Valley (RGV) Zone 11, Zone 12, & Zone 13. The project alignment will be on the south toe of the north U.S. IBWC levee along Maintenance Road. This 7.9 miles is within the 32.8 miles in the base bid that the survey, GeoTech and drainage study were completed on.

Table of Zones for D-B RFP

RIO GRANDE VALLEY PROJECTS		
Station	Zone	Miles
Weslaco	11	2.4
Weslaco	12	1.1
Weslaco	12	2.1
Weslaco	13	0.4
Weslaco	13	1.9
Total		7.9

The project is to be a design build construction project under the utilizing a single phase RFP. The design and completed construction must be approved and certified for the FEMA national database for flood protection.

This Scope of Work includes all work necessary for the A-E firm to prepare a D-B RFP denoting a complete and usable project.

The Value Engineering Study from the Base bid will be used for Option 3.

The Construction Cost Estimate/Current Working Estimate will be provided by the A-E. A pre-proposal conference to finalize the project scope of work and aid in the preparation of the A-E proposal is recommended. Labor and travel costs are not reimbursed by the Government.

17.1.1 Product Scope

The Government requires the development of one D-B RFP. Due to the project funding, the D-B RFP will need to be developed with a Base Bid and Three Options, totaling 7.9 miles as follows:

RGV Pgk 2	PROJECT LENGTH (MILES)
BASE RFP (D-B)	1.1
BASE RFP (D-B)	2.1
OPTION 1 (D-B)	2.4
OPTION 2 (D-B)	0.4
OPTION 3 (D-B)	1.9
TOTAL	7.9

17.1.2 Project Scope

17.1.2.1 This Scope of Work includes all work necessary for the A-E firm to prepare a D-B RFP, denoting a complete and usable project.

s. Design Quality Control Plan

t. Reviews and Conferences

u. Confirmation Notices, Status Reports

v. Drainage Study (Use Drainage Study the Base Bid)

w. Planimetric, Topographic Survey (Use Survey from the Base Bid)

x. Geotechnical Investigation: Subsurface Investigation Borings, In-Situ and Laboratory Testing, and Geotechnical Report (Use Geotechnical Report from the Base Bid)

y. Design Charrette

z. Draft D-B RFP

aa. Final D-B RFP

bb. Corrected Final D-B RFP

cc. Structural Analysis

dd. Cost Estimates

(1) Site

(2) Landscaping, Fencing

(3) Parking, Roadways, Exterior Lighting

(4) Storm Drainage, Storm Water Pollution Prevention Plan

(5) Site Utilities

(6) Structural

(7) Electrical

(8) Lightning Protection, Grounding

ee. Amendments

17.2 Construction Cost Limitation.

All services associated with a Study, Project Definition Report or Design-Build RFP are considered non-design and are not subject to the 6% of Construction Cost Limitation statutory limit.

18.0 Option 3 Services

18.1 Quality Control Plan

The minimum requirements for the quality control plan (QCP) are given in ER 1110-1-12, *Quality Management*, and the project SOW. The QCP is the A-E firm's management plan(s) for execution of the contract. The QCP describes the way in which the A-E will produce the deliverables, the steps that will be taken to control quality, and an assigned point-of-contact within the A-E firm's organization responsible for ensuring compliance with the QCP. The QCP, modified to include any changes to the contract that occur, will be attached as an appendix to the design analysis.

18.2 A-E Services (See CESWD-AEIM for full descriptive requirements.)

a. Design Quality Control Plan (See Section 3.1)

b. Reviews and Conferences (See Section 5.2)

c. Confirmation Notices, Status Reports (See Section 3.3.1)

d. Design Charrette - The A-E shall conduct a Design Charrette to determine the customer's functional requirements. The Charrette Meeting shall include, but not be limited to, gathering and developing requirements concerning User activities, number of personnel, operations requirements, equipment requirements, utilities, security, Due Diligence studies, and general site requirements. Key discussion items shall include project/design alternatives, key 'show stoppers', and team buy-in for final design requirements. Minimum full time attendees include the Project Manager and Civil Engineer. By the end of the Charrette, the A-E shall develop conceptual site plans, and management out-brief. Final deliverables for the Charrette include meeting minutes, site plans, utility plans, and ENG Form 3086 Government estimate.

h. Drainage Study - The Contractor shall review the programmatic drainage report that was prepared in the Base Bid and package the report in the D/B RFP.

i. Geotechnical Investigation - The Contractor shall review the Geotechnical report that was prepared in the Base Bid and package the report in the D/B RFP.

j. Planimetric, Topographic Surveys - The Contractor shall review the Survey that was prepared in the Base Bid and package the report in the D/B RFP.

k. Utility Connection Points - Perform the necessary analysis to identify the characteristics of all required existing utilities. Determine connection points and new infrastructure requirements to service the project.

l. Structural Analysis – Provide a structural analysis as required to support this SOW.

m. Geotechnical Design Requirements – The A-E shall complete the design as denoted in the Geotechnical Investigation from the Base Bid.

n. Construction Cost Estimates - A Parametric (PACES) estimate is required for the Project Definition Report, Parametric Design (35%) Documents or Draft D-B RFP. A MII Micro-Computer Aided Cost Estimate is required for the Final and Corrected Final D-B RFP, as well as, the 65%, 95% and 100% Design Data submittals. The requirements of this Task Order override and replace the requirements listed in the AEIM.

o. Design-Build Request for Proposal (Draft, Final, Corrected Final) - The A-E shall provide all needed information for the project based upon information gathered at the pre-design meeting and the Parametric Design (15%) submittals. Design documents used for advertising shall not be sealed by the A-E. Fully developed site plans showing parking, roadways, pedestrian pathways, building footprints, utility connections, etc. are not required.

Only conceptual (35%) plans are required.
RFP Preparation and Source Selection - Complete the project through the 35% design. The A-E shall prepare technical sections of a design-build package for the facility and associated utilities as indicated in the project description. The A-E shall prepare the list of technical specifications, technical evaluation criteria, special phasing requirements (as determined), and reference drawings for the RFP. Immediately following the RFP Review conference the A-E will attend a VE workshop per the above requirements. The Government will prepare all Division 00 and 01 specifications unless otherwise noted.

RFP Content, Organization and Important Criteria - The RFP is to be prepared to meet all requirements for a Task Order Design-Build solicitation. Compliance with the Fort Worth District guidance for preparing documents for solicitation and construction award is required. Include with the Draft and Final RFP, an estimate of the construction time in calendar days to complete the project. The A-E shall incorporate phasing or sequencing requirements based upon user needs and/or design considerations. Derivation of the construction period shall be provided in accordance with SWD AEIM. The A-E shall include necessary information in the RFP to guide the Offerors regarding any phasing requirements for construction of the facility. Construction Cost Limitations (CCL) - The estimated construction cost of this project is based upon anticipated funding as stated in this Statement of Work. Each project must be designed to provide a usable facility within the designated limitations of estimated construction contract price and scope. If additive, optional or deductive bid items must be included in the Bid Schedule for cost limitations, the A-E shall properly delineate these items in the drawings and specifications without additional compensation. Modification to plans, specifications, and the construction cost estimate to reflect optional, deductive or additive bid items is included as part of this Contract as necessary to remain within funds available.

p. Cost and Scope Limitations - The A-E shall ensure the guidance outlined in the RFP requires the Offerors to provide a usable facility within the limitations of estimated construction contract price and scope. If at any time, the A-E finds that the estimated construction cost and scope of the project is likely to exceed the budget, the A-E shall report this fact to the Contracting Officer Representative. He shall also submit recommendations (associated costs) for reducing the project cost and/or scope to within the established limits.

q. Landscaping, Fencing – Specify Installation accepted plants for low maintenance and minimal irrigation.

r. Parking, Roadways, Exterior Lighting - .

s. Storm Drainage, Storm Water Pollution Prevention Plan – Shall be based on the Proposed Site Plan. Must be coordinated with Installation personnel to define local requirements.

t. Site Utilities - Following verification of existing utilities, new infrastructure requirements and points of connection to service the project must be determined by the A-E. Domestic Water, Sanitary Sewer, and Natural Gas lines must be sized to handle project loads and then terminate into existing mains. Electrical conductors shall be sized to handle project loads and

then terminated into required electrical transmission equipment. Privatized utility requirements will be denoted.

u. Structural – Based on Installation specific wind, snow, and seismic loading.

v. Electrical - Coordinate design of the primary electrical distribution with the local utility provider, Installation personnel and the CESWF Project Design Team. Identify who and how power will be provided to the facility transformer primary and secondary sides.

w. Telephones, Computers, CCTV, Intrusion Detection, Mass Notification - .

x. Lightning Protection, Grounding -

y. Bidder Inquiries / Amendments - The A-E will respond to Bidder Inquiries via the ProjNet (Dr. Checks) system and provide updated Design Documents. The Government will issue the actual amendment.

z. Current Working Estimate - The current U. S. Army Corps of Engineers' Micro-Computer Aided Cost Estimating System MII (pronounced "M2") Version 4.0 Build III or most recent release, and compatible databases are required for all construction cost estimates produced under this Task Order. Contact CESWF-EC-AC Section Chief for information pertaining to obtaining the software. Each submittal must include an MII estimate based upon the current stage of design. The software database now requires purchase (with the costs subject to change), but current cost is approximately $1,000. This purchase is not made nor controlled through CESWF-EC-AC. The current version of the software program will be provided to the A-E under contract who must then follow the prescribed licensing procedure to make use of the software for the term of this contract. Any other use of the software and the database can be utilized per the terms of the licensing agreement with the manufacturer. That licensing agreement is not under the control of CESWF-EC-AC. A PDF file of the project estimate must be submitted with the reports file. Hard copy requirements are denoted elsewhere. The estimate will not be complete until the bid opening estimate or final proposal estimate which includes all amendments and the completed bid or CLIN schedule in its final advertised format have been submitted to CESWF prior to the construction contractors' final proposal or bid deadline date shown in the solicitation or SF30. All pricing information included with any database or other source can and should be adapted, modified, changed, increased, or decreased as deemed necessary by the estimator to prepare an estimate representative of the project. The information contained in any database or any other cost information provided by the Fort Worth District office, CESWF-EC-AC, or obtained from other sources is not intended to represent fixed prices for ordering supplies, equipment, material, labor, nor any other construction component in the Government estimate. The estimator's professional judgment and decisions should be the definitive factor in determining fair and reasonable costs calculated for submittals and reviews. In MII, when submitting estimates for Military Projects, the Corps' current 20 system Work Breakdown Structure (WBS) will be used to structure the estimate (or PCCost 3086/1391 format when requested) unless CESWF-EC-AC determines that WBS is not applicable. For Civil Works Projects, the current Code of Accounts structure will be used unless the project is of a nature that does not

warrant any of these estimate structures but that variance must be requested and then authorized by CESWF-EC-AC. Excel based estimates or other software forms of estimating are not acceptable unless the A-E has been approved by CESWF-EC-AC to provide back-up data or lower level costs in those formats. Final roll-up and mark-ups of those estimates will be entered in MII software for submittals though by utilizing the structure required by CESWF-EC-AC. The A-E shall be aware of and take precautionary measures as necessary to maintain the confidential nature of all cost estimates prepared under this Task Order. All estimate submittals shall be prepared in accordance with USACE instructions, regulations, and manuals for cost estimates as contained in EI 01D010, ER 1110-2-1302, and TM 5-800-4 and in compliance with EFARS 36.2. Costs will be developed using the latest standards and resources as applicable and including but not limited to the Tri-Services Estimating System, TRACES, MII, the MII Cost Book databases, commercial cost book databases, PAX newsletters 3.2.1 and 3.2.2, Davis-Bacon wage rates utilized as minimum values, commercially available reports, data, and local site specific or otherwise available sources of material, supplies, equipment, labor and other data. Compilation of the Current Working Estimate will incorporate the preceding sources and references utilizing the most recent available software as stated and/or other TRACES software which may include MII, MCACES, PACES, PCCost, risk analysis programs, or any of the other approved systems available to TRACES users. Any applicable software and databases which normally are distributed without cost by CESWF-EC-AC will be made available to the A-E by CESWF-EC-AC under the Task Order. Certain software programs and databases as described above and which also include PACES and RACER but are not limited to these mentioned herein may require purchase by the A-E and cannot be provided without cost to the A-E by CESWF-EC-AC. Construction cost estimates for planning and budgeting purposes and for projects at 0 - 15% stages may be submitted by utilizing parametric software such as PACES and then summarizing the costs in the PCCost software if CESWF-EC-AC deems this acceptable. Also for any planning and budgeting purposes, PCCost software may be used to generate costs by utilizing the category codes and area cost factors in the PCCost database (which also includes Area Cost Factor data and adjustments). Updates to the database are available from CESWF-EC-AC. Electronic copies of all cost estimates in their native formats must be submitted along with any txt, pdf, doc, and rtf type report files generated to produce the hard copies.

aa. Pre-Proposal Conference and Site Visit - A Pre-proposal Conference and Installation Site Visit shall be conducted for potential Offerors after the RFP is advertised. The A-E Project Manager shall be required to make a presentation of the general RFP development concept and project features at the beginning of the review conference. The A-E shall prepare the agenda and organize the conference so that all technical and functional issues can be addressed within the scheduled duration of the conference. The presentation is intended to provide the conference members with a clear understanding of the facility and how it functions. It can be expected that the participants can range up to a large group (up to 50 persons). The COE will chair the Conference and respond to offerors concerns at the conference. This is planned as a one-day meeting requiring travel the previous day and returning the day of the conference. The A-E shall provide detailed meeting minutes.

18.3 Administrative Tasks

18.3.1 Confirmation Notices

The A-E firm shall provide a record of all conferences, meeting, discussions, verbal directions, telephone conversations, etc., the A-E firm and/or their subcontractor(s) on matters related to this Task Order. The A-E firm shall identify all participating personnel, subjects discussed, and conclusions reached. The A-E firm shall title these records *Confirmation Notices* and shall number them sequentially. The A-E shall forward each Confirmation Notice via email to the Government POC within three working days. Communication via email is acceptable for minor, day-to-day correspondence.

18.3.2 Periodic Status Reports

The A-E firm shall provide a monthly status report to the Government POC. The report shall include: Current Status, Action Item List, and discussion of major issues.

19.0 Option 3 Schedule and Deliverables

19.1 Schedule

19.1.1 The Table below shows the schedule of services and deliverables covered in this task order. The A-E Contractor shall submit a schedule showing dates for all key submittals.

Option 3 Schedule of Services and Deliverables

KEY SERVICE OR DELIVERABLE	DUE DATE
Design Quality Control Plan	Within 7-days of T.O. Award.
Charrette	Within 14-days of T.O. Award.
Draft Planimetric, Topographic Surveys	Within 30-days of T.O. Award.
Draft D-B RFP Submittal	Within 30-days of T.O. Award.
Government review of Draft D-B RFP	Estimated 14-days after Draft Submittal.
Final D-B RFP Submittal	Within 60-days of T.O. Award.
Government review of Final D-B RFP	Estimated 14-days after Final Submittal.
Corrected Final D-B RFP Submittal	August 31, 2017
Dr. Check Bidder Inquiries	Within 2-days of posting in Dr. Checks

KEY SERVICE OR DELIVERABLE	DUE DATE
Construction RFP Amendment(s)	Within 3-days of notification of need for Amendment.
Construction Contract Award CD	Within 5-days of Construction Contract. Award.
Administrative Tasks	
Confirmation Notices (Email only – Numbered)	Within 3-days.
Monthly Status Report (pdf attachment via email)	Within 5-days from end of month

19.1.1 The days listed above are calendar days, including Saturdays, Sundays, and Federal holidays. The Government must receive the deliverable by the start of the next business day. If the due date falls on a Saturday, Sunday, or Federal holiday, the Government expects receipt by the start of the next business day. The A-E Contractor should assume 14-days for receipt of Government comments for review of major submittals. On-site review conferences or conference calls can be scheduled no sooner than 7-days following receipt of the submittal.

19.1.2 The Government may accept submittals prior to the due date provided they are complete and have received a quality control check. The Government will not accept partially complete submittals early or otherwise.

19.2 Deliverables

19.2.1 The table below shows the list of deliverables and their required distribution.

Deliverable Distribution Schedule

Deliverables	Number of Copies A	B	C	D	E	F
Electronic Copies Only (Native and/or .pdf formats)						
Design Quality Control Plan	1	1	1	1	1	1
Minutes, Confirmation Notices, Status Reports	1	1	1	1	1	1
D-B RFPs (Draft, Final, Corrected Final)	1	1	1	1	1	1
Topo Survey (Draft & Final)	1	1	1	1	1	1
Cost Estimate (Draft & Final)	1	1	1			1
Bid Schedules	1	1	1			1
Contract Award Documents	1	1	1	1	1	1

19.2.2 The table below lists the Points of Contact that correspond to the letters (*A, B, C,* etc.) in deliverable distribution schedule above.

Address List

a. CESWF Design Manager (Address Stated Above)

b. CESWF COR (Address Stated Above)

c. CESWF PM (Steve Dill) 819 Taylor Street, CESWF-ECSO-T, Fort Worth TX, 76102

d. CBP Office, (Address Stated Above)

e. BPFTI PMO, Scott Recinos, 7940 Jones Branch Drive, McLean, VA 22102

f. CESWG Area Office (Name provided after award), 252 Industrial Dr # A, Port Isabel, TX 78578

19.2.3 The A-E form shall coordinate submittal distribution with the POCs. The original transmittal letter will be addressed to the POC and will note that by information copy of that transmittal, appropriate review agencies are being provided copies of the work products and are requested to provide comments electronically to the POCs and to the A-E firm by the due date. The original transmittal letter and all copies will include a schedule showing data distribution.

20.0 Option 3 Reviews and Conferences

20.1 Quality Assurance Reviews

20.1.1 Formal Reviews

20.1.1.1 The Government will perform a formal Quality Assurance (QA) check on the following:

e. The POC will be responsible for providing the comments to the A-E and the A-E shall be responsible for responding to, and incorporating (if appropriate), all comments from reviewers into the deliverables.

f. The A-E maintains professional responsibility and liability for the deliverables. If, in the A-E's professional opinion, a QA comment either does not apply or the A-E disagrees with it, then the A-E shall not incorporate that comment into the deliverables. The A-E shall respond to the comment "Do not concur." and provide the comment submitter with an explanation of the disagreement. The A-E shall also be prepared to discuss the position with the reviewer.

g. CESWF uses USACE's web-based *Design Review and Checking System* (DrChecks) at www.projnet.org as the primary means for recording and tracking resolution of QA comments. The A-E shall use this system. The Government will set up DrChecks for this project.

h. The QA team may not record all QA comments in DrChecks. They may provide comments on other media. If such is the case, the POC will be responsible for providing those comments to the A-E and the A-E shall be responsible for responding (and incorporating, if appropriate) into the final products.

20.1.2 Casual Reviews

The A-E firm is responsible for ensuring compliance with all requirements in this task order. The Government will examine all deliverables submitted by the A-E firm. If the Government finds deficiencies, the A-E firm shall amend and resubmit as necessary.

20.2 Conferences

The conferences scheduled for this task order are listed in the table below. Any additional conferences requiring travel shall be authorized by a Task Order Modification. Expenses will be reimbursed as denoted in the IDIQ Contract and must be based on current Joint Travel Regulations. Airline ticket cost shall be based on a minimum 7-day advance purchase.

Additional A-E discipline team members will be made available to support the on-site meetings via conference call. Limited participation is required. If required to meet expedited schedules, the A-E shall be prepared to accommodate over-the shoulder review comments.

Scheduled Conferences

Scheduled Conferences	Location	Duration	A-E Firm's Role
Design Charrette (w/In-Brief; Out-Brief)	Fort Worth	2 Days	Req'd: PM, Geotech, Structural, Civil and Cost Estimator.
Draft RFP Review	Video Teleconference	1 Day	Req'd: PM, Geotech, Structural, Civil and Cost Estimator.
Final RFP Review	Video Teleconference	1 Day	Req'd: PM, Geotech, Structural, Civil and Cost Estimator.
Corrected Final RFP Review	Video Teleconference	1 Day	Req'd: PM, Geotech, Structural, Civil and Cost Estimator.

Scheduled Conferences	Location	Duration	A-E Firm's Role
Construction Pre-Proposal Conference	Video Teleconference	1 Day	Req'd: PM, Geotech, Structural, Civil.

21.0 Option 3 Technical Criteria, Standards/Specifications, General Requirements and Government Furnished Information (Use Latest Editions Unless Otherwise Noted)

The A-E or Designer of Record shall use the following standards as applicable for this project.

a. Per DoD Directive Number 4270.5 dated 12 February 2005 paragraph 4.7, the Unified Facilities Criteria (UFC) and the Unified Facilities Guide Specifications (UFGS) shall be used to the greatest extent possible by all DoD Components for planning, design, and construction (restoration and modernization) of facilities, regardless of funding source, except for those facilities constructed by the National Guard on real estate neither owned by the United States nor under long-term lease to the United States, constructed by a State under Chapters 169 and 1803 of Title 10, US Code, and where title to the facility shall not be in the United States.

b. UFC 1-200-01: General Building Requirements.

c. International Building Code (IBC).

d. NFPA Life Safety Codes 13, 90A, 101.

e. ANSI/IEEE C2-2002, National Safety Electric Code.

f. U.S. Army Corps of Engineers Architectural and Engineering Instructions (AEI), (http://www.hnc.usace.army.mil/Missions/Engineering/TECHINFO.aspx)

g. US Army Corps of Engineers, Southwestern Division, Architectural and Engineering Instructions Manual (CESWD-AEIM) available at:
http://www.spa.usace.army.mil/portals/16/docs/ec/swd_aeim_2003.pdf

h. U.S. Army Corps of Engineers design criteria available at:
http://www.publications.usace.army.mil/USACEPublications/EngineerManuals.aspx

i. U.S. Army Corps of Engineers – Technical Instructions, TI 800-01, 20 July 1998 available at http://www.wbdg.org/ccb/ARMYCOE/COETI/ARCHIVES/ti800_01.pdf

j. Contract Administration Branch guidelines set forth at http://www.publications.usace.army.mil/Portals/76/Publications/EngineerPamphlets/EP_715-1-7.pdf

k. Selection of Methods for the Reduction, Reuse, and Recycling of Demolition Waste.

l. Requirements to collect Geographic Information System (GIS) Data associated with construction projects.

m. All applicable Federal, State and industry standards, including those not referenced constitute design criteria for this project.

n. CBP Design Guide

o. DHS Tactical Infrastructure Standard Design Toolkit, 2012

p. Due to the project requirements, this project shall meet USACE flood risk management design standards utilizing Design and Construction of Levees (EM 1110-2-1913) and, defined as a Flood Wall, thus utilizing Retaining and Flood Walls (EM 1110-2-2502), Slope Stability (EM 1110-2-1902), Strength Design of Concrete Hydraulic Structures (EM 1110-2-2104).

The design of the project shall also meet the USACE hydrologic criteria for levees and floodwalls, as defined in Chapter 7 of Hydrologic Engineering Requirements for Flood Damage Reduction Studies (EM 1110-2-1419), and the performance of the project in terms of flood protection and FEMA certification shall be evaluated according to USACE's risk and uncertainty standards as defined in Risk-Based Analysis for Flood Damage Reduction Studies (EM 1110-2-1619).

q. Requirements to collect Geographic Information System (GIS) Data associated with construction projects.

r. All applicable Federal, State and industry standards, including those not referenced constitute design criteria for this project.

s. **Government Reviews (Dr. Checks)** - CESWF uses USACE's web-based comment tracking system, Dr. Checks (located at www.projnet.org), as the primary means for recording and tracking resolution of QA comments. The Government's review will consist primarily of quality assurance (QA) checks and is typically completed in two weeks. It will concentrate on the design's functional aspects with limited technical review. The Government will prepare written comments for evaluation and response by the A-E after each major submittal. The A-E shall annotate and respond to the review comments in the development of data for the next design level. Responses such as "A-E requires additional information." or "A-E does not understand." are unacceptable. Annotations shall address specific corrective actions required. The A-E shall enter responses in advance of review conferences. Final annotation shall be completed within seven days of the conference. Hard copy distribution of final annotated

comments is not required except that they shall be included by the A-E in the Design Analysis. The A-E maintains professional responsibility and liability for the deliverables. If, in the A-E's professional opinion, a QA comment either does not apply or the A-E disagrees with it, then the A-E shall not incorporate that comment into the deliverables. The A-E shall respond to the comment "Do not concur." And provide the commentator with an explanation of the disagreement. The A-E shall coordinate with the Government Project Manager to ensure the Government has set up rights for each pertinent member of the A-E team that needs to evaluate and respond to comments.

t. **Specifications** -

The A-E will prepare all Division 01 Specifications and assemble the final Request for Proposal.

Civil / GIS CADD GIS Requirements
CADD and Electronic (paperless) Bid Process.
CADD Standards. The A-E shall comply with A/E/C CADD Standards
https://cadbimcenter.erdc.dren.mil/default.aspx?p=a&t=1&i=7

Fort Worth District Sheet/Title Block file can be found at:
https://cadbimcenter.erdc.dren.mil/DocCenter.aspx?ID=0

CADD. Critical to the design process is use of Computer-Aided Drafting and Design (CADD). The Government plans to solicit bids for construction of the project via an electronic format without providing printed plans and specifications to perspective bidders. All work to be accomplished, e.g., design work, surveying work, drawings, and details to be provided under this Task Order shall be accomplished and developed using computer-aided design and drafting (CADD) software and procedures conforming to criteria set forth elsewhere. All CADD final design deliverables shall be delivered in AutoCAD File format, version 2016 or newer.

All CADD drawing model file elements shall be produced full scale in CADD and named in compliance to A/E/C Standard.

SYMBOLOGY: All CADD element symbologies including level, weight, style, and color shall be compliant to A/E/C Standard.

Electronic Files/Paperless Solicitation. Electronic files provided to bidders shall be produced by the A-E as described herein and provided to potential bidders by the Government, via a Government Web site.

CAD files shall be converted to Adobe Acrobat "pdf" files by the A-E, which will require the A-E to purchase computer software for this purpose if they do not currently have this capability or alternately satisfy this requirement through a subcontractor (http://www.adobe.com/products/acrobat/readstep.html). These files will be readable utilizing

the free Adobe Acrobat Reader.

The A-E is responsible for ensuring that resulting prints from pdf files are essentially identical to prints from the parent SpecsIntact and CADD files.

u. **Amendments to Bid Documents -** During the time that this project is advertised for construction contract bids, it may be necessary for the A-E to provide revisions to the advertised plans and specifications. Drawing revisions shall be provided as reissued or additional drawings. Reissued or additional drawings shall be incorporated into the bid documents, in the form of amendments. All amendments shall be incorporated into project specifications and drawings in accordance with the SWD Architect-Engineer Instructional Manual (AEIM), Chapter VIII. All plan sheets revised to incorporate amendments, along with the CADD and PDF files shall be provided as specified or referenced herein. At the discretion of the Contracting Officer, drawing revisions may be provided in narrative form and sketches. Amendments within the project's scope, including design errors, omissions and conflicts will be done promptly, to prevent or minimize slipping of the proposal due date, with no increase in the A-E Task Order price. In most instances, the final amendment must be available to bidders ten days before the due date for technical and price proposals.

21.1 Proprietary Specifications and Requirements.

The A-E firm shall avoid specifying proprietary materials, equipment, systems, or other features of the work unless the A-E firm can demonstrate the use of such proprietary requirements will be advantageous to the Government (e.g. fire alarm transmitters and locksets that must be compatible with other products at the facility). The Government is prohibited from specifying proprietary requirements except in unusual circumstances which requires documentation and approval by the Contracting Agency Head or higher authority. If the A-E firm can show that a proprietary material could be more advantageous to the Government, provide a description that includes the brand name and a general description of those salient physical, functional, or performance characteristics of the item.

21.2 Office Documents.

21.2.1 The table below lists the software products the Government uses for work products produced through general-purpose office software (e.g. VE Study, Design Analysis, Etc.):

Government Software Packages

File Type	Software	Publisher
Portable Document Format (*.pdf)	Acrobat	Adobe

File Type	Software	Publisher
Hypertext transfer protocol (http)	Internet Explorer	Microsoft
Word Processing (*.docx)	WORD	Microsoft
Spreadsheets (*.xlsx)	EXCEL	Microsoft
Slideshow presentations (*.pptx)	POWERPOINT	Microsoft
eMail client (*.msg)	OUTLOOK	Microsoft

21.2.2 The A-E firm shall ensure the documents they produce and submit to the Government are compatible with these software packages. The A-E firm shall be responsible for any file translation necessary to permit Government reading of documentation. The A-E firm shall consult with the Government on the use of software not on this list to ensure the Government can read the files the A-E firm will submit.

21.2.3 The A-E firm shall consider readability and reproducibility in the preparation of documents. This includes (but is not limited to) font sizes, organization and layout of documents, paper sizes, and use of color documentation. Not all stakeholders on this project have access to high-end reproduction equipment.

21.3 Units of Measure.

The A-E shall verify use of U.S. Customary, International, or other units in all work products.

21.4 Government Furnished Information and Materials

The table below lists the Government Furnished information and materials included in this task order. Contact the POC if more data is necessary for preparation of fee proposal or execution of the task order.

Government Furnished Materials

No.	Item	Source
1	Cost engineering database tables and software. Purchase or license may be required at cost to the A-E firm.	See also http://media.swf.usace.army.mil/pubdata/EC/eca/CostSpec.asp
2	Div 00	SWF Contracting

22. Option 4 Construction Phase Services in Support of the Base Bid D-B-B Project for 2.93 Miles

Project Description

22.1 Overview

The objective is to provide Construction Phase Services to the Government in support of the full design completed in the Base Bid.

22.1.1 Product Scope

The Government requires Construction Phase Services in support of the Base Bid.

22.1.2 Project Scope

22.1.2.1 This Scope of Work includes all work necessary for the A-E firm to provide Construction phase Services.

a. Quality Control Plan

b. Reviews and Conferences

c. Confirmation Notices, Status Reports

d. Monthly Report on Construction Status

22.2 Option 4 Construction Cost Limitation.

All services associated with a Study, Project Definition Report or Design-Build RFP are considered non-design and are not subject to the 6% of Construction Cost Limitation statutory limit.

23.0 Option 4 Services

23.1 Quality Control Plan

The minimum requirements for the quality control plan (QCP) are given in ER 1110-1-12, *Quality Management*, and the project SOW. The QCP is the A-E firm's management plan(s) for execution of the contract. The QCP describes the way in which the A-E will produce the deliverables, the steps that will be taken to control quality, and an assigned point-of-contact within the A-E firm's organization responsible for ensuring compliance with the QCP. The QCP, modified to include any changes to the contract that occur, will be attached as an appendix to the design analysis.

23.2 A-E Services (See CESWD-AEIM for full descriptive requirements.)

a. Design Quality Control Plan (See Section 3.1)

b. Reviews and Conferences (See Section 5.2)

c. Confirmation Notices, Status Reports (See Section 3.3.1)

d. Construction Phase Services –

The Contractor shall provide support to the Contracting Officer during the construction of RGV-010. The Contractor shall allow for a total of 320 hours during construction to assist with issues such as construction inspection, shop drawing reviews, vendor proposal reviews, construction value engineering change proposal reviews, response to information requests, design modification, factory testing observations and construction site visits. Contractor response to RFIs shall be provided to the Contracting Officer expeditiously, but no later than two calendar days following receipt of the inquiry. As part of this task and included in the 320 hours the Contractor shall plan to attend one, 1-day Pre-Construction Meeting with the PM, Civil and Geotechnical Engineer and conduct one construction surveillance trip for five days with the PM, Civil and Geotechnical Engineer. Contractor's participation in the site visit(s) shall be coordinated by the USACE Project manager.

23.3 Administrative Tasks

23.3.1 Confirmation Notices

The A-E firm shall provide a record of all conferences, meeting, discussions, verbal directions, telephone conversations, etc., the A-E firm and/or their subcontractor(s) on matters related to this Task Order. The A-E firm shall identify all participating personnel, subjects discussed, and conclusions reached. The A-E firm shall title these records *Confirmation Notices* and shall number them sequentially. The A-E shall forward each Confirmation Notice via email to the

Government POC within three working days. Communication via email is acceptable for minor, day-to-day correspondence.

23.3.2 Periodic Status Reports

The A-E firm shall provide a monthly status report to the Government POC. The report shall include: Current Status, Action Item List, and discussion of major issues.

24.0 Option 4 Schedule and Deliverables

24.1 Schedule

24.1.1 The Table below shows the schedule of services and deliverables covered in this task order. The A-E Contractor shall submit a schedule showing dates for all key submittals.

Option 4 Schedule of Services and Deliverables

KEY SERVICE OR DELIVERABLE	DUE DATE
Quality Control Plan	Within 7-days of T.O. Award.
Monthly Construction Report (pdf via email)	Within 5-days from end of month
Administrative Tasks	
Confirmation Notices (Email only – Numbered)	Within 3-days.

24.1.1 The days listed above are calendar days, including Saturdays, Sundays, and Federal holidays. The Government must receive the deliverable by the start of the next business day. If the due date falls on a Saturday, Sunday, or Federal holiday, the Government expects receipt by the start of the next business day. The A-E Contractor should assume 14-days for receipt of Government comments for review of major submittals. On-site review conferences or conference calls can be scheduled no sooner than 7-days following receipt of the submittal.

24.1.2 The Government may accept submittals prior to the due date provided they are complete and have received a quality control check. The Government will not accept partially complete submittals early or otherwise.

24.2 Deliverables

24.2.1 The table below shows the list of deliverables and their required distribution.

Deliverable Distribution Schedule

Deliverables	Number of Copies				
	A	B	C	D	E
Electronic Copies Only (Native and/or .pdf formats)					
Quality Control Plan	1	1	1	1	1

Deliverables	Number of Copies				
	A	B	C	D	E
Minutes, Confirmation Notices, Status Reports	1	1	1	1	1

24.2.2 The table below lists the Points of Contact that correspond to the letters (*A, B, C,* etc.) in deliverable distribution schedule above.

Address List

a. CESWF Design Manager (Address Stated Above)

b. CESWF COR (Address Stated Above)

c. CESWF PM (Steve Dill) 819 Taylor Street, CESWF-ECSO-T, Fort Worth TX, 76102

d. CBP Office, (Address Stated Above)

e. BPFTI PMO, Scott Recinos, 7940 Jones Branch Drive, McLean, VA 22102

24.2.3 The A-E form shall coordinate submittal distribution with the POCs. The original transmittal letter will be addressed to the POC and will note that by information copy of that transmittal, appropriate review agencies are being provided copies of the work products and are requested to provide comments electronically to the POCs and to the A-E firm by the due date. The original transmittal letter and all copies will include a schedule showing data distribution.

25.0 Option 4 Reviews and Conferences

25.1 Quality Assurance Reviews

25.1.1 Formal Reviews

25.1.1.1 The Government will perform a formal Quality Assurance (QA) check on the following:

i. The POC will be responsible for providing the comments to the A-E and the A-E shall be responsible for responding to, and incorporating (if appropriate), all comments from reviewers into the deliverables.

j. The A-E maintains professional responsibility and liability for the deliverables. If, in the A-E's professional opinion, a QA comment either does not apply or the A-E disagrees with it, then the A-E shall not incorporate that comment into the deliverables. The A-E shall respond to the comment "Do not concur." and provide the comment submitter with an explanation of the disagreement. The A-E shall also be prepared to discuss the position with the reviewer.

k. CESWF uses USACE's web-based *Design Review and Checking System* (DrChecks) at www.projnet.org as the primary means for recording and tracking resolution of QA comments. The A-E shall use this system. The Government will set up DrChecks for this project.

l. The QA team may not record all QA comments in DrChecks. They may provide comments on other media. If such is the case, the POC will be responsible for providing those comments to the A-E and the A-E shall be responsible for responding (and incorporating, if appropriate) into the final products.

25.1.2 Casual Reviews

The A-E firm is responsible for ensuring compliance with all requirements in this task order. The Government will examine all deliverables submitted by the A-E firm. If the Government finds deficiencies, the A-E firm shall amend and resubmit as necessary.

25.2 Conferences

The conferences scheduled for this task order are listed in the table below. Any additional conferences requiring travel shall be authorized by a Task Order Modification. Expenses will be reimbursed as denoted in the IDIQ Contract and must be based on current Joint Travel Regulations. Airline ticket cost shall be based on a minimum 7-day advance purchase.

Additional A-E discipline team members will be made available to support the on-site meetings via conference call. Limited participation is required. If required to meet expedited schedules, the A-E shall be prepared to accommodate over-the shoulder review comments.

Scheduled Conferences

Scheduled Conferences	Location	Duration	A-E Firm's Role
Pre-Construction Meeting	On-site	1 Day	Req'd: PM, Geotech, Civil
Construction Surveillance	On-site	5 Days	Req'd: PM, Geotech, Civil

26.0 Option 4 Technical Criteria, Standards/Specifications, General Requirements and Government Furnished Information (Use Latest Editions Unless Otherwise Noted)

The A-E or Designer of Record shall use the following standards as applicable for this project.

a. All applicable Federal, State and industry standards, including those not referenced constitute design criteria for this project.

b. CBP Design Guide

c. DHS Tactical Infrastructure Standard Design Toolkit, 2012

d. All applicable Federal, State and industry standards, including those not referenced constitute design criteria for this project.

26.1 Proprietary Specifications and Requirements.

The A-E firm shall avoid specifying proprietary materials, equipment, systems, or other features of the work unless the A-E firm can demonstrate the use of such proprietary requirements will be advantageous to the Government (e.g. fire alarm transmitters and locksets that must be compatible with other products at the facility). The Government is prohibited from specifying proprietary requirements except in unusual circumstances which requires documentation and approval by the Contracting Agency Head or higher authority. If the A-E firm can show that a proprietary material could be more advantageous to the Government, provide a description that includes the brand name and a general description of those salient physical, functional, or performance characteristics of the item.

26.2 Office Documents.

26.2.1 The table below lists the software products the Government uses for work products produced through general-purpose office software (e.g. VE Study, Design Analysis, Etc.):

Government Software Packages

File Type	Software	Publisher
Portable Document Format (*.pdf)	Acrobat	Adobe
Hypertext transfer protocol (http)	Internet Explorer	Microsoft
Word Processing (*.docx)	WORD	Microsoft
Spreadsheets (*.xlsx)	EXCEL	Microsoft

File Type	Software	Publisher
Slideshow presentations (*.pptx)	POWERPOINT	Microsoft
eMail client (*.msg)	OUTLOOK	Microsoft

26.2.2 The A-E firm shall ensure the documents they produce and submit to the Government are compatible with these software packages. The A-E firm shall be responsible for any file translation necessary to permit Government reading of documentation. The A-E firm shall consult with the Government on the use of software not on this list to ensure the Government can read the files the A-E firm will submit.

26.2.3 The A-E firm shall consider readability and reproducibility in the preparation of documents. This includes (but is not limited to) font sizes, organization and layout of documents, paper sizes, and use of color documentation. Not all stakeholders on this project have access to high-end reproduction equipment.

26.3 Units of Measure.

The A-E shall verify use of U.S. Customary, International, or other units in all work products.

26.4 Government Furnished Information and Materials

The table below lists the Government Furnished information and materials included in this task order. Contact the POC if more data is necessary for preparation of fee proposal or execution of the task order.

Government Furnished Materials

No.	Item	Source
1	N/A	

27.0 Administrative Instructions

27.1 The A-E firm's primary point of contact with the Government is the POC. The A-E firm may communicate with other members of the project delivery team (PDT) as necessary to facilitate project delivery. The A-E shall ensure that the POC is included in all such communications – especially when such communications could potentially lead to a modification to this task order.

27.2 The A-E firm may always contact the COR, the KO, or the contract specialist assigned by the KO at any time about any issues involving this task order. See subsection "Work Authorization" below.

28.0 General Provisions

28.1 Ownership

28.1.1. The Government, for itself and such others as it deems appropriate, will have unlimited rights under this Task Order to all information and materials developed under this Task Order and furnished to the Government and documentation thereof, reports, and listings, and all other items pertaining to the work and services pursuant to this agreement including any copyright. Unlimited rights under this Task Order are rights to use, duplicate, or disclose text, data, drawings, and information, in whole or in part in any manner and for any purpose whatsoever without compensation to or approval from the A-E firm.

28.1.2. The Government will have the right to inspect the work and will have access to and the right to make copies of the above-mentioned items. All text, digital files, data, and other products generated under this Task Order shall become the property of the Government.

28.2 Project Location Considerations

The A-E firm shall become acquainted with all available site related information to properly estimate the difficulty and/or cost of successfully executing the work under this task order.

28.3 Work Authorization

The A-E firm shall not accept instructions issued by any person employed by the Government or otherwise, that may affect the terms and conditions of the Task Order substantially, other than the Contracting Officer, or the COR acting within the limits of their authority. Any work done by the A-E firm without being properly directed to do so will be done at the A-E firm's own risk. Furthermore, the Government will not take beneficial use of any work outside this scope of work without properly modifying the task order.

28.4 Subcontractors

The A-E firm shall insert all appropriate provisions in all Subcontracts relating to this Task Order and shall ensure fulfillment of all contractual provisions by subcontractors. If at any time during the process of this Task Order, the Contracting Officer determines that any subcontractor is

unsatisfactory or is not performing in accordance with the Task Order, the Government will inform the A-E firm in writing accordingly and the A-E firm shall take immediate steps to obtain acceptable performance or terminate the subcontract. Subletting by subcontractors is subject to the same requirements. The A-E firm shall not construe anything in this Task Order to create any contractual relation between any subcontractor and the Government. The A-E firm's change of subcontractors must be done in accordance with the contract clause, FAR 52.244-4.

28.5 Confidentiality

28.5.1 The A-E firm shall protect the confidentiality of all work accomplished under this SOW. If approached by the media or others not directly involved with the project, the A-E firm shall refer them to the COR for response.

28.5.2 Quantity surveys and construction cost estimates shall remain the sole property of the Government, and shall not be made available to others for any purpose. The release of information concerning quantities and costs to prospective bidders is prohibited. The A-E firm shall be aware of and take such precautionary measures as necessary to maintain the confidential nature of all estimates prepared under this Task Order.

28.6 Inspection and Acceptance

During the progress of work, all work and all the A-E firm's or subcontractor's plant and equipment engaged in the work shall be subject to, and available for, inspection by the COR during normal office hours.

28.7 Inspection of Delivered Work

As soon as practicable after delivery of work in any installment, the Government will spot check for serious errors or an undue number of minor errors indicating mistakes or carelessness on the part of the A-E firm. The COR may forego a thorough inspection and return the entire submittal for rechecking and correction by the A-E firm.

28.8 Preliminary and Final Acceptance

Preliminary acceptance of work delivered at any stage may be the basis for estimating partial payments for completed work but shall not be construed as final acceptance. Preliminary acceptance of work delivered in any stage may be accepted; however, if proven by subsequent inspection to not be acceptable the stage shall be corrected by the A-E firm. Final acceptance of the work will not be made until all work under the Task Order has been delivered and found to be acceptable. Acceptance does not relieve the A-E firm of liability (See FAR52.236-23).

28.9 Deficiencies

The A-E firm shall correct the deficiencies and resubmit the documents or files in the quantities originally required and within a reasonable time as specified by the Contracting Officer. The A-E firm shall bear the cost of correcting and re-submitting deficient work.

28.10 Certification of Computer Media

The A-E firm shall scan all electronic deliverables for known viruses utilizing current virus detection software that is updated weekly for new virus profiles. Transmittal letters transferring files to the Government shall certify if this has or has not been accomplished.

28.11 Progress Payments

8.11.1 The A-E firm shall submit monthly invoices no later than the 15th of each month. The A-E firm shall give the status of the project expressed as a percentage basis for each Task Order work item and accounting work item (See Contract Financial Data for accounting code breakout) of the total amount of work completed. The invoice shall be applicable to only this Task Order.

8.11.2 The A-E firm shall prepare and submit their progress estimates and payment requests electronically on a signed ENG Form 93. The A-E firm shall transmit their invoice to *the A-E Invoice mailbox at AE.invoice.SWF@usace.army.mil*, as well as, the day-to-day contact (typically the Design Manager or Project Manager). The A-E firm shall include the following data in their invoice transmittal:

a. Contract and Task Order numbers,

b. Name of the A-E firm,

c. Name of the USACE POC and COR, and

d. The signed ENG Form 93.

28.12 Verification of Government Furnished Information

Upon initial delivery of the Task Order and all Government furnished data, the A-E firm shall inspect them and inform the COR if information is missing, no later than seven days after receipt. The A-E firm will thoroughly review the Government furnished data, conference minutes and other communications concerning the project which has transpired prior to the contract date. Should the A-E firm find any conflict between the Government supplied data and applicable codes, Government regulations, above referenced minutes and communications, or if the cost estimate is determined to be in error such that it appears that the construction cost will exceed funds available, the A-E firm shall inform the Government, in writing, within five days of the discovery.

28.13 Architect-Engineer Request for Information (A-E RFI)

When the A-E firm needs additional, or a clarification of, information from the Government to facilitate the services required by this Task Order, the A-E firm shall submit an A-E RFI requesting the needed information. The A-E firm shall use a separate A-E RFI for each unrelated request. Even though the information is requested by other documentation or methods such as, Confirmation notices, letters, memorandums, design analysis, annotated review comments, telephone conversations, conferences, meetings, discussions, oral conversations, etc., the A-E firm shall document the requested information on an A-E RFI. These requests, entitled "A-E Request for Information" shall be numbered sequentially and shall fully explain the requested information and all ancillary information needed. The A-E firm shall forward each A-E RFI to the POC as soon as the need for information is determined.

29.14 Security Requirements

Do to project site restrictions/ operations, all contract personnel must be vetted (background checks) and cleared prior to site access. Final site access approval will be determined via U.S. Department of Homeland Security vetting process. Any person not cleared for site access will not be allowed on site for any reason. All vetting decisions are FINAL. The following information shall be provided to U.S. Department of Homeland Security for vetting purposes (Note: this is a U.S. Department of Homeland Security facility and uses different vetting requirements outside of U.S. Department of Defense):

- FULL NAME
- DATE OF BIRTH
- LAST FOUR SOCIAL SECURITY NUMBER
- HOME ADDRESS
- DRIVERS LICENSE NUMBER AND STATE OF ISSUE
- GENDER
- PLACE OF BIRTH (IF NOT UNITED STATES)

29.14.1 On-Site Security

The contractor will be responsible for providing security for the contractor's personnel when on-site as the project location is within close proximity to an international border. The Government will not provide security services.

Geotechnical Investigation Requirements Exhibit

Applicable to the Base Bid and Option 1

A.1 Description of Work and Service Required

The A-E shall perform site reconnaissance, geotechnical investigations (field and laboratory) in accordance to EM 1110-1-1804 and document findings in the geotechnical engineering report. All work shall be done under the direction and supervision of a Professional Engineer, licensed in the applicable state. All geologic investigation shall be done under the direction and supervision of a Professional Geologist, licensed in the applicable state.

A.2 Site Access Coordination

The A-E shall comply with all landowner requirements regarding access and coordination. In addition, the A-E is expected to use engineering best practices and comply with the environmental, cultural resource restrictions, and will provide the USACE a minimum of two week notice before accessing the site to establish the site access.

A.3 Site Reconnaissance

The A-E shall conduct site reconnaissance of the required areas. General geologic observations shall be noted and photographs documenting the site and geologic conditions shall be taken in the proposed areas of investigation. The site reconnaissance shall identify the location of potential subsurface exploration locations. The A-E shall mark proposed subsurface exploration locations in-field, notify underground service alert (USA), and coordinate any additional permits required by the applicable State. The A-E shall be responsible for all costs encountered for acquiring appropriate permits. The A-E shall prepare a trip report and photo-log in order to document existing site and geologic conditions as part of exploration plan submittal.

A.4 Review of Existing Data and Exploration Plan

The A-E shall review and compile relevant geologic/geotechnical information from existing geotechnical studies, published USGS and the applicable state Geological Survey maps, topographic maps, USDA soil maps, flood maps, groundwater databases, aerial photos, etc. onto regional scaled maps. The A-E shall provide a preliminary summary of existing subsurface conditions, as part of the exploration plan submittal, indicating the road alignment with recommendations for subsurface exploration (borings, test pits, or other). The Exploration Plan shall indicate the location and proposed depth for each exploration point, the type and approximate depth of samples to be collected, and the tentative geotechnical laboratory tests to be conducted. Note that preliminary site visit by CBP personnel and soil survey map review by USACE suggests gravelly sandy loam soils and shallow groundwater with surface water.

A.5 Field Investigation

The A-E shall conduct geologic mapping of the site to define the surficial units in the general vicinity of the proposed river crossing. The A-E shall conduct subsurface field investigations along the proposed alignment of the river crossing. The field investigations shall be performed using methods (soil borings, test pits, or other) best suited to the site conditions and complexity of the proposed design. It is anticipated the field investigation shall consist of, but not be limited to three exploration borings using rotary wash drilling methods or other method suitable for shallow groundwater conditions. Standard penetration tests (ASTM D 1586) shall be conducted and relatively undisturbed samples collected (Shelby tube, Modified California, or similar sampling method) at intervals not exceeding 5-feet and at every change of material to at least 20 feet total depth. Test holes shall be backfilled with cuttings. A Professional Engineer or Professional Geologist, registered in the applicable state shall be present at all times during the field investigations and responsible for characterizing the subsurface condition in accordance with latest ASTM standards.

The A-E shall provide all water necessary for drilling. Groundwater elevations shall be determined at the time of drilling either by bailing the borings or installing temporary standpipe piezometers. Any temporary standpipe piezometers shall be properly abandoned prior to the end of the design phase of the project.

If bedrock is encountered in explorations at the proposed alignment of the river crossing, the distribution of rock types, geologic structure and rock discontinuities (type, spacing, orientation and characteristics) shall be documented in field notes, photographs, geologic maps and geologic cross sections. Field notes shall be presented at scales appropriate for engineering evaluation.

Test holes for the wall foundation design shall each be drilled to a minimum depth of 40.0 feet below existing grade or top of rock, whichever occurs first. The maximum spacing of test holes for the 2.93 miles that is part of the full design in the base bid shall be every 1000 ft. as measured along the wall alignment. The maximum spacing of test holes for the remainder of the 32.8 miles of the base bid and when required in an option shall be every one (1) mile as measured along the wall alignment. Test holes drilled for the patrol road pavement design shall each be drilled to a minimum depth of 10.0 feet below existing grade and shall also be performed at a maximum spacing of every one (1) mile along the patrol road alignment.

Tests on disturbed specimens of overburden soils shall include classification (ASTM D 2488), moisture content (ASTM D 2216), grain size analysis (ASTM D 422), and Atterberg limits (ASTM D 4318). Undisturbed (shelby tube) specimens of the overburden soils shall also be collected using a shelby tube sampler; tests on undisturbed specimens of the overburden soil shall include the tests listed for disturbed specimens, as well as controlled expansion-consolidation testing (ASTM D 2435 and ASTM D 4546 (Method C)), density (Corps of Engineers Engineer Manual (EM) 1110-2-1906, Appendix II, Par. 4, Displacement Method), and strength testing (ASTM D 2850). If coring is performed in the bedrock, core specimens of at least 3.5-inch diameter of the bedrock shall be collected and subjected to testing to include moisture content (ASTM D 2216), density (Corps of Engineers EM 1110-2-1906, Appendix II, Par. 4, Displacement

Method), and strength (ASTM D 2464). All geotechnical testing of soil and rock specimens shall be performed at a testing laboratory that possesses a current validation by the U.S. Army Corps of Engineers Engineer Research and Development Center (ERDC) Geotechnical and Structures Lab (GSL). The contractor shall furnish to the Government a copy of the current ERDC validation memorandum as a condition of approval to use the lab for project laboratory testing services.

A.6 Laboratory Investigation

Laboratory tests shall be performed on soil and/or bedrock samples retrieved during the field exploration program in accordance to latest ASTM standards. The tests shall be conducted at an USACE-accredited laboratory. The purpose of the laboratory testing is to assess the physical and engineering properties of the soil and/or bedrock samples collected in the field. It is anticipated that the laboratory testing program shall include, but not be limited to: 1) determination of moisture content and dry unit weight of undisturbed samples, 2) modified Proctor testing (determination of maximum density/optimum moisture), 3) soil gradation testing, 4) determination of plasticity index, 5) direct shear testing, 6) consolidation and hydroconsolidation testing, 7) determination of expansion indices, 8) determination of R-values or CBR values, and 9) evaluation of corrosivity (resistivity, sulfate and chloride content). If during the course of the investigation, the A-E determines that additional laboratory testing is required to adequately characterize the site conditions, the A-E shall propose a schedule and cost of additional testing for USACE approval.

Soil samples shall remain the property of the Government and be stored and available for Government personnel to view for 90 days after samples are taken. A-E shall notify the Government 14 days prior to when the 90 days have elapsed, and make the samples available to the government at its behest. If the Government does not choose to pick up the samples, then the samples shall become property of the A-E and shall be disposed of properly.

A.7 Geotechnical Report

The A-E shall prepare a draft report, summarizing the geotechnical investigations, engineering analyses, and recommendations as part of the 65% Design submittal. All test results shall be reported in a format and detail consistent with the relevant standard. At a minimum, the report shall include the following:

1. A project description and general site geology and soil conditions;
2. A list of previous reports, geologic references, soil surveys, and other data sources reviewed and a summary of the data obtained from those sources;
3. A description of field and laboratory work performed;
4. A description of the proposed river crossing, culverts, and related improvements;
5. A Geologic Map covering the entire area of work, that includes the locations of subsurface exploration and geologic conditions encountered.
6. Geologic Cross Sections showing the surface and subsurface distribution of soil and/or rock materials at the project site. At least one cross section shall be drawn along the proposed culvert alignment;

7. Logs of the borings and/or test pits completed. Logs shall be in the format provided by the USACE;
8. Results of laboratory tests on soil and/or rock samples presented graphically, in table format, or on the boring logs (as appropriate);
9. Results of corrosivity tests (for site soils to corrode steel, or to adversely react with concrete).
10. A summary of subsurface conditions encountered along the proposed river crossing alignment, including a discussion of existing groundwater conditions as appropriate;
11. A summary of seismic site conditions, including discussion of liquefaction potential along with any necessary seismic design recommendations;
12. A discussion of potential geologic/geotechnical impacts/constraints that includes an evaluation of allowable bearing capacity, settlement, differential settlement, hydro-consolidation, and erosion and scour of fill soils;
13. Evaluation of groundwater conditions and recommendations for construction dewatering:
14. An evaluation of difficult ground conditions such as soft/loose materials and/or caliche and a discussion of suggested remedial measures;
15. Geotechnical recommendations for culvert design at river crossings and mitigation of potentially adverse geologic and geotechnical conditions;
16. Pavement design recommendations based on ground conditions and estimated traffic loads/frequencies provided by the government;
17. General grading recommendations, including recommendations for temporary stability of excavations, site preparation, and soil compaction;
18. Geotechnical recommendations for the development of project specifications.

The completed geotechnical engineering report shall be signed and stamped by a Professional Engineer licensed in the applicable state after the draft report is reviewed and accepted by the USACE. The geotechnical report shall be part of the completed preliminary design (65%) submittal review process. If modifications to the geotechnical engineering report become necessary, the final geotechnical report can be resubmitted for approval as part of 95% and 100% Design Data submittal.

The following criteria shall apply to the development of the project foundation and pavement design recommendations:

TM 5-818-1 – Soils and Geology Procedures for Foundation Design of Buildings and Other Structures (Except Hydraulic Structures)

TM 5-818-7 – Foundations in Expansive Soils

UFC 3-250-01FA – Pavement Design for Roads, Streets, Walks, and Open Storage Areas

UFC 3-250-09FA – Aggregate Surfaced Roads and Airfield Areas

TM 5-822-2 – General Provisions and Geometric Design For Roads, Streets, Walks, and Open Storage Areas

Texas Department of Transportation - Standard Specifications For Construction of Highways, Streets and Bridges

UFGS Guide Specifications will be used for Construction

A.8 Reviews and Submittals

The A-E shall submit three (3) hard copies and a file in PDF format of each submittal. A review conference (teleconference) may be held to resolve comments. The A-E may be required to submit response to written review comments to the Contracting Officer.

The A-E shall forward via overnight delivery the documentation specified to:

U.S. Army Corps of Engineers
Fort Worth District
819 Taylor St, ATTN: CESWF-ECSO
Fort Worth, TX 76102

A.9 Other Considerations

The A-E shall use licensed subcontractors as needed for subsurface explorations. The geotechnical laboratory shall be certified by the USACE. The A-E shall provide to the USACE Project Manager a statement of qualifications for the laboratory and each proposed subcontractor for Government approval at least one week prior to initiating the proposed tasks.

All data, reports, and materials relative to this Scope of Work are the property of the Government and will not be released by the A-E, subcontractors, or employees on temporary duty without written approval of the Project Manager.

The A-E shall support development of the project plans and specifications and review each to ensure compliance with the geotechnical recommendations prior to submittal to the USACE.

Topographic Survey Requirements Exhibit

Applicable to the Base Bid and Option 1

The survey will be accomplished using aerial and/or ground survey methods. Existing easements associated with the property shall also be identified. Up to two benchmarks shall be set to assist staking during construction.

The unit of measure shall be International Feet. All dimensions on the exhibits and records of shall be displayed as ground distances, or appropriate conversion procedures are to be displayed in the event the data is displayed as grid distance; the digital files will be in the true grid system.

All work shall be done in accordance with engineering criteria and project maps that will be furnished to the Surveyor-Engineer, procedures outlined in the Scope of Work and in accordance with the laws of the applicable State.

a. The Surveyor-Engineer shall prepare mapping at a scale of one inch equals fifty feet (1"=50') with a one foot (1.0') contour interval for the area depicted in project maps. The mapping shall extend 100' north and 100' south at each street intersection.

b. The surveyor shall set ground control points for mapping tied to COE and NGS control in the project area. COE project control can be found on the USMART Database. These monuments shall be used as primary project control.

c. Prepare Mapping to meet ASPRS Class 1 Standards and National Map Accuracy Standards at a mapping scale of one inch equals fifty (1"=50'), with a one foot (1.0') contour interval.

(1) Mapping and labeling shall show culture including buildings, bridges, fences, walls, trees, cactus, shrubbery, labeled streets and access roads (including curb, gutters, and sidewalks), dirt roads, cattle guards, railroads, paths, courses and ways of travel, bodies of water, surface evidence of utilities and extensive areas of vegetation. Mapping and labeling shall include all other standard map features.

(2) Locate adjoining fence lines and note changes in ownership and/or materials along the existing fence lines.

(3) Locate all surface evidence of utilities. Using this information, georeference the utility drawings provided by the COE.

d. The Surveyor-Engineer shall perform a boundary survey for the properties that adjoin the project.

(4) Establish the property lines of all adjoining properties.

(5) Locate all easements within project area.

(6) Establish project Right of Way from provided files.

(7) Final signed and stamped Record of Survey shall be delivered.

(8) Boundary and easement information shall be included in the topographic drawings.

e. Each digital file shall immediately reference to another, in its proper orientation (if there is more than one file).

f. The mapping shall be drafted in CAD per the National CAD Standards.

g. The completed planimetric CAD files as well as the contours and DTM should be three-dimensional. All files shall be fully operational and compatible with the Corps of Engineers systems. All drawings for the Corps shall be stored on external hard drive, or DVD depending on size. Each drawing shall have a separate file name and be stored individually on the disk(s). All files should include the sheet layout, title block and legend.

The Surveyor-Engineer shall prepare final digital survey material in accordance with the applicable criteria and standards publications and manuals listed herein. They are hereby made a part of this Scope of Work and may be supplemented with detailed instructions, which shall be issued by the Contracting Officer during the progress of the work. The Surveyor-Engineer shall be responsible for notifying the Contracting Officer of any missing criteria needed for his work.

h. The deliverables part of this task will consist of the following information:

The deliverables will include metadata compliant with the FGDC metadata standard for each data set that is part of the report or that was used in making the report. The FGDC metadata standard is described in documents listed on this page -- http://www.fgdc.gov/metadata/contstan.html -- under "CSDGM Version 2 - FGDC-STD-001-1998."

The survey mapping deliverables to the design team will be provided in electronic format. The formats will consist of: Word, ASCII, Microstation CADD, InRoads DTM, MrSid, and TIFF.

i. The final submittal should consist of five sets of the following digital files:

1. Microstation V8i DGN and Inroads DTM files with contours generated from the DTM.

2. ArcGIS File Geodatabase (the geodatabase shall not be password protected). All elements shall have the coordinate system defined. Each separable element will be stored in the

geodatabase as a separate dataset. The geodatabase shall contain the following elements (at a minimum):

a) Topographic features (bench marks, control points, mass points, breaklines, etc)

b) Common geographic features.

c) Structures, buildings, etc.

d) Roads, streets, access roads, dirt roads, railroads, etc.

3. ArcGIS TIN.

4. Drawings in PDF format of topographic and boundary survey.

5. Record of survey in CAD and PDF format.

6. Inroads Breakline (BRK) file.

7. Inroads ASCII export format mass point's file with a data header containing the following information, at a minimum.

*Project =
*Date =
*Surveyor =
*Area =
*Survey Type =
*Unit of measure =
*Vertical =
*Horizontal =
*Data Format=

8. U-SMART control point description forms for the project control points.

9. Project control map with graphical location and positional information.

10. Positional information in excel (xls) format.

11. Quality Assurance/Quality Control Report and metadata file.

12. Photo's of all control points.

e) All CD's, data files and drawings should be labeled with a header or title block showing, at a minimum, the following project info:

*Project =
*Date =
*Surveyor =
*Area =
*Survey Type =
*Unit of measure =
*Vertical =
*Horizontal =

The AE shall name and assign a responsible Engineer/Surveyor as Project Manager. He/she shall maintain a project file to contain all correspondence and criteria pertinent to this project and shall provide the Contracting Officer with the name of the individual responsible for preparation and coordination of the project Record of Survey.

b. During the progress of the work, the AE shall confer with the Project Manager, Fort Worth District, as required, to assure approval of the completed work.

c. The Project Manager from the Fort Worth District, as appropriate, shall visit the Surveyor-Engineer's office at any time during the progress of the work to examine the progress of the work and to resolve any questions the AE may have concerning the preparation of the Record of Survey. Technical specialists shall support the Project Manager as necessary to provide guidance and to assure an adequate submittal.

Programmatic Value Engineering Study Requirements Exhibit Applicable to the Base Bid

This TO will include preparation of an independent Programmatic VE Study Report to include recommended edits. All work shall conform to the UFC and Army design criteria. The A-E will perform a Programmatic VE Study for all task order tasks. Travel for site visits and workshops may be combined for options but Base projects must be started upon award. USACE will provide the AE sufficient notice of option award and when the anticipated Draft RFP or 30% documents are completed.

This Contract will include preparation of Value Engineering Report to include recommended edits. All work shall conform to the UFC and Army design criteria.

The A-E Contractor will coordinate these items with the CESWF Project Design Team, Installation personnel, and local utility providers. Overall guidance is provided by the site specific Installation Design Guide. See the CESWF AEIM for additional design deliverable requirements.

The Construction Cost Estimate/Current Working Estimate will be validated by the A-E.

Tasks and Deliverables for the VE Study shall consist of:

1. **VE Study Logistics Coordination**

   The VEC shall coordinate with the Design Manager (DM) and VEO Representative to discuss the project, agenda, roles and responsibilities. The DM will provide the latest Draft RFP package and pertinent project information which will contribute to the success of this effort. The VEC shall provide a list of all VE team members with contact information, including name, e-mail, work/cell numbers.

2. **VE Study Review and Baseline Cost Estimate**

   The VEC shall evaluate the Draft RFP package, the Statement of Project Intent and Current Working Estimate to identify potential funding shortfalls and any other issues prior to the VE Study during the Information and Function Analysis. Cost estimates are to be in the MII format.

3. **Conduct VE Study and Produce Draft VE Report**

   (1) The VEC shall conduct each Value Engineering Study consistent with the following six phases sequentially conducted and developed by S.A.V.E. International: Information phase, Function Analysis (including FAST Diagram) phase, Creative phase, Evaluation phase, Development phase and the Presentation phase. This is later referred to as I.F.C.E.D.P. The VEC shall produce a Draft VE Study information with the following content (at a minimum):

(2) Value Matrix comprised of;

(a) Baseline Concept and VE Strategies

(3) VE Alternative proposal write-ups and recommendations for each award type by discipline; and

(4) Appendix of all background documents.

(5) Note: Executive Summary shall be two pages or less.

(6) Document the accepted and rejected evaluated proposed alternatives and confirm the results with the Government.

4. Produce Final VE Report

The VEC shall produce a Final VE Report, including the PDT recommended edits:

FINAL VE REPORT	
1) Cover (P2 Number, Project Number, Official Project Title)	7) VE Study Statistics
2) Table of Contents	8) Design Comments
3) Location Map And Project Site Plan	9) Cost Estimate & Comments
4) Executive Summary	10) Attendance Roster
5) Summary of VE Proposal Cost Savings & Implementation Sheets	

	11) Workshop Agenda (Draft & Final)
6) Project Analysis (I.F.C.E.D.P)	12) Presentation

The workshop results shall include a differentiation of the Quantitative & Qualitative Alternative proposals developed as "VE Study Statistics". This is information shall correlate to project linear costs estimate in the following format;

(1) Total Alternatives:
   (a) Number of Alternatives Developed
   (b) Number of Accepted Alternatives
   (c) Total Number of Implemented Alternatives

(2) Quantitative Alternatives
   (a) Number of Quantitative Alternative
   (b) Number of Accepted Alternatives

(3) Qualitative Alternatives
   (a) Number of Qualitative Alternative
   (b) Number of Accepted Alternatives

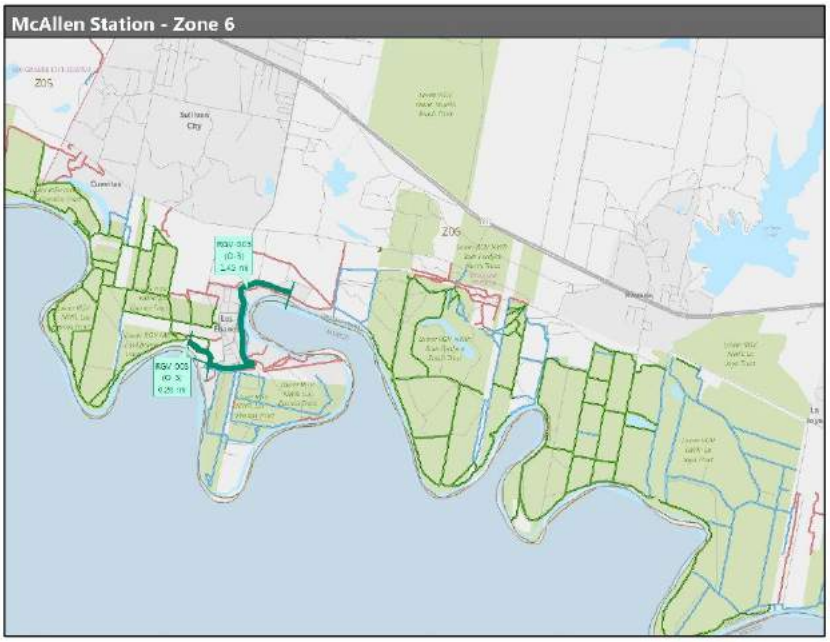
(4) Cost Avoidance (Gross)
   (a) Potential /Projected Cost Avoidance (Gross)
   (b) Accepted Cost Avoidance

(5) Life Cycle Cost
   (a) Maximum Life Cycle Cost
   (b) Accepted Life Cycle Cost

(6) VE Activity Contract Number:
(7) A-E Contract Award Amount:

Appendix A – Base Bid

Base Bid Zone Map



Base Bid Zone Map

Base Bid Zone Map

Base Bid Zone Map

Base Bid Zone Map

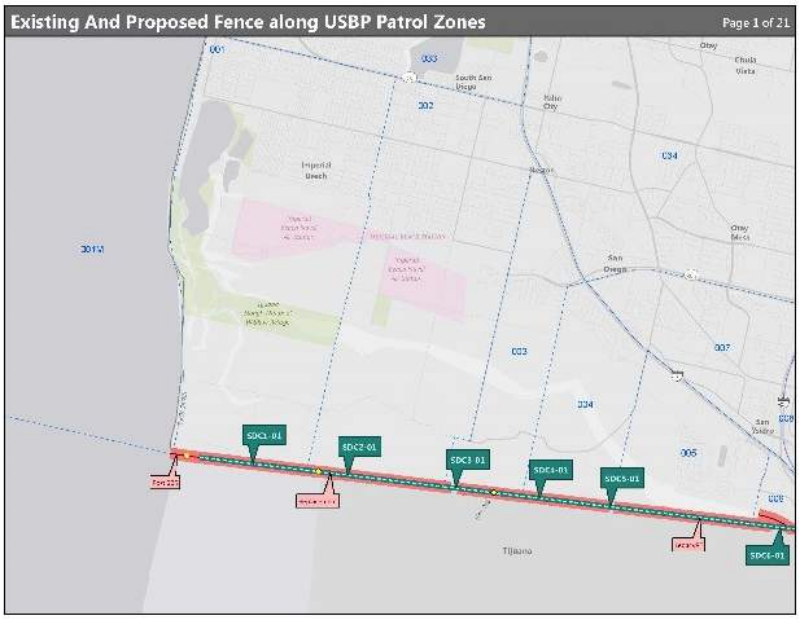
Base Bid Zone Map

Base Bid Zone Map

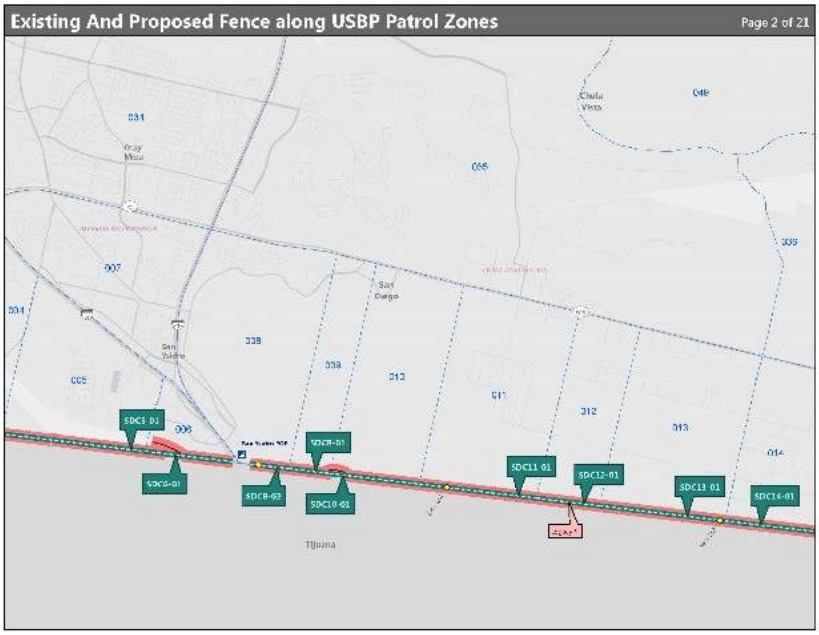
Base Bid Zone Map

Appendix B

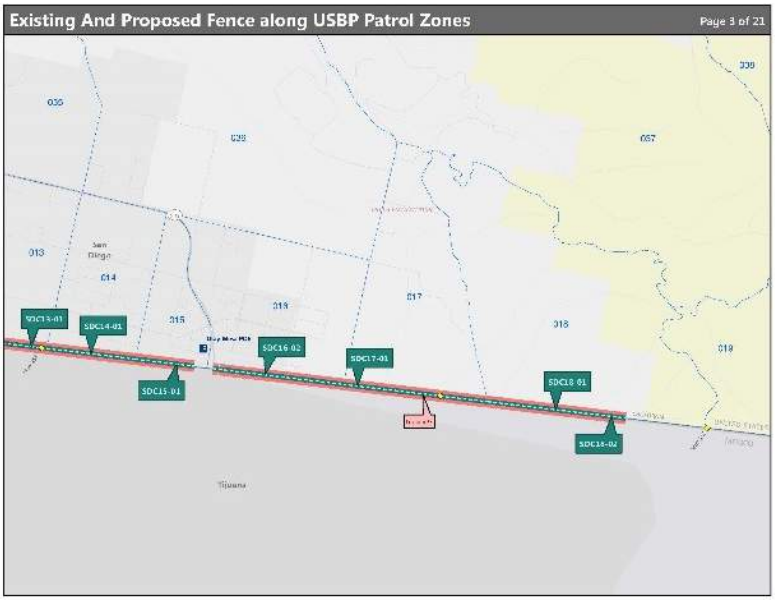
SDC BIS Primary Fence Replacement Map (~14 miles)



Option 1 Zone Map



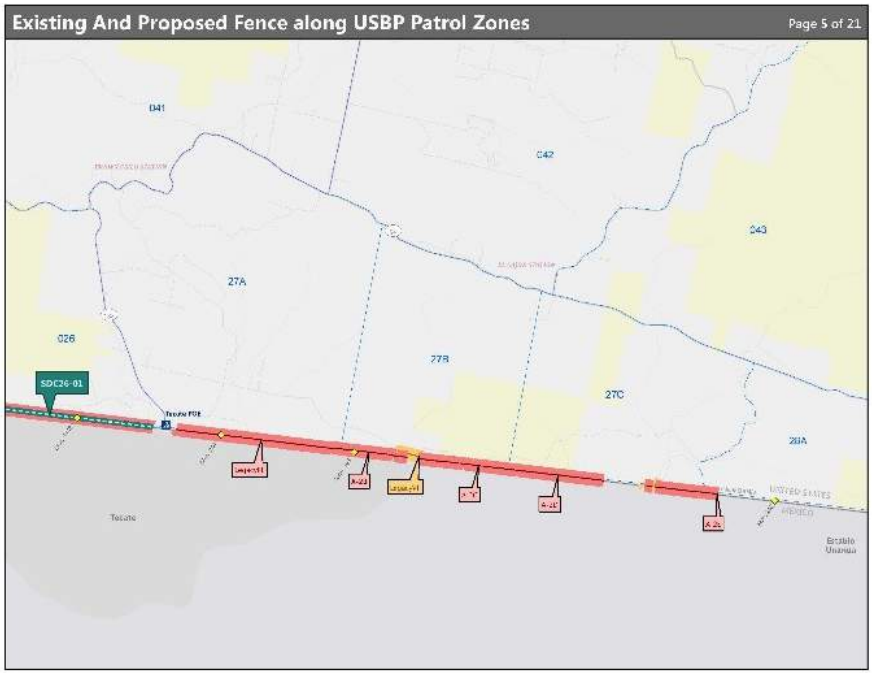
Option 1 Zone Map



Option 1 Zone Map

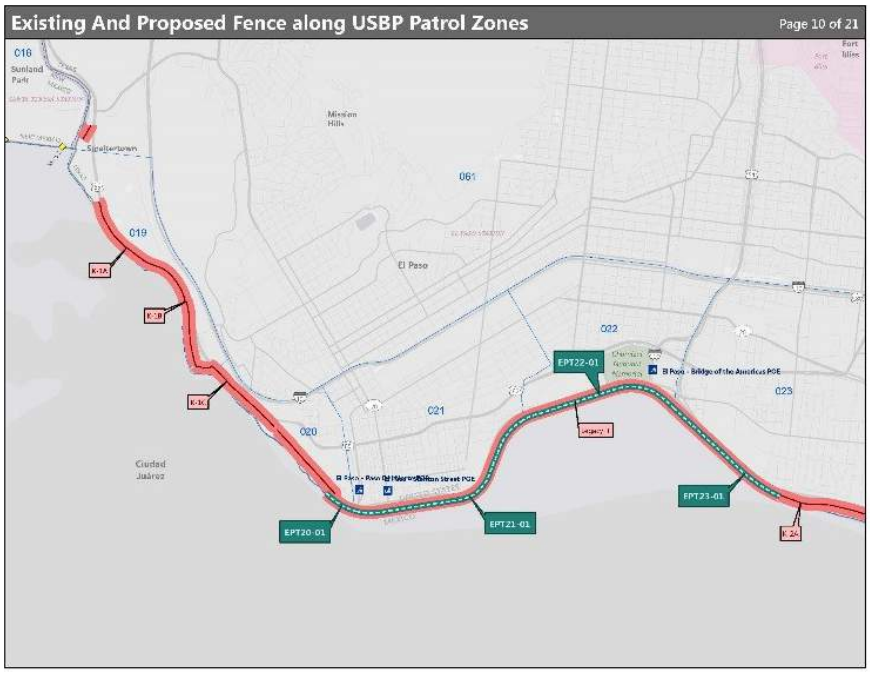
SDC Tecate Primary Fence Replacement Map (~2 miles)

Option 1 Zone Map



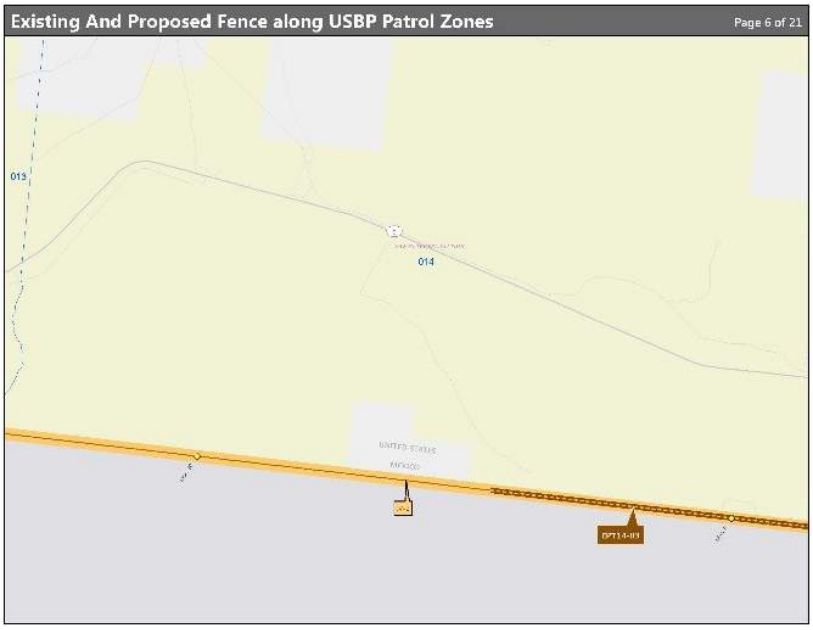
Option 1 Zone Map

ELP "Tortilla Curtain" Primary Fence Replacement Map (~4.16 miles)



Option 1 Zone Map

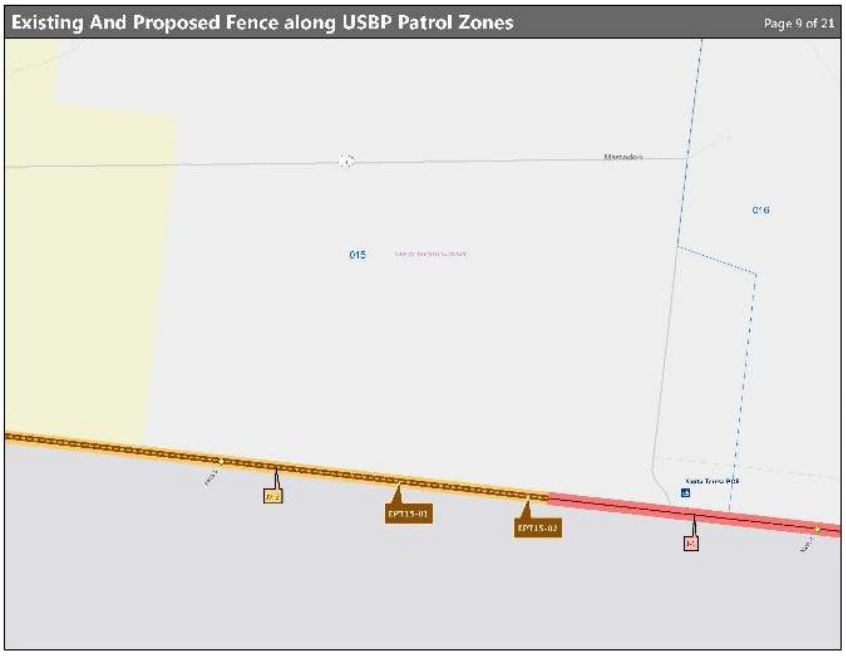
ELP Vehicle Fence to Primary Fence Replacement Map (~20 miles)



Option 1 Zone Map

Option 1 Zone Map

Option 1 Zone Map



Option 1 Zone Map

Appendix C

RGV-001 & RGV-006 Map

RGV-012 MAP

Option 3 Zone Map

Option 3 Zone Map

RGV-014 MAP

Option 3 Zone Map

ATS	Official Project Name	ATS Customer Comments
SWG-17-0103	RGV-010 BW Pilot Project	AE Design task Order for development of 100% RFP to Michael Baker.
SWG-17-0104	Border Barrier System RGV-010	D-B-B contract utilizing unrestricted SWD horizontal MATOC. RTA Sep 2017
SWG-17-0105	San Diego 14 miles Primary Replacement D-B	San Diego 14 mi Primary Replacement D-B $101M Pre-Qual.
SWG-17-0106	Tecate 2 miles Primary Replacement D-B	Tecate 2 miles Primary Replacement D-B. $15M HUB Zone MATOC Seed Project.
SWG-17-0107	El Paso 20 miles VF-PF Replacement D-B	El Paso 20 miles VF-PF Replacement D-B. $150M Pre-Qualified List.
SWG-17-0108	El Paso 4.16 miles Primary Replacement D-B	El Paso 4.16 miles Primary Replacement D-B $25M 8(a) MATOC Seed Project.
SWG-17-0109	RGV 7.9 miles 'Project 2' New Barrier D-B	RGV 7.9 miles 'Project 2' New Barrier D-B $120M Pre-Qualified List.
SWG-17-0110	RGV 10.8 miles 'Project 3' New Barrier D-B	RGV 10.8 miles 'Project 3' New Barrier D-B $165M Pre-Qualified List.
SWG-17-0111	RGV 11.2 mi 'Project 4' New Barrier D-B	RGV 11.2 miles 'Project 4' New Barrier D-B $175M Pre-Qualified List.
SWG-17-0112	San Diego 14 miles Secondary Barrier D-B	San Diego 14 miles Secondary Barrier D-B $250M Pre-Qualified List. Pr
SWG-17-0113	RGV 16 mi 'West' New Barrier D-B	RGV 16 miles 'West' New Barrier D-B $240M Pre-Qualified List. Pr
SWG-17-0114	RGV 16 miles 'East' New Barrier D-B	RGV 16 miles 'East' New Barrier D-B $240M Pre-Qualified List.
SWG-17-0115	RFP for 18-feet Border Barrier Projects WEST	AE task order to develop conceptual design and RFP for 18-foot Border Barrier Projects
SWG-17-0116	RFP for 18-feet Border Barrier Projects EAST	UR AE TO to develop conceptual design and RFP for 18-feet Border Barrier Projects EAST

Estimated Cost
4000000
45000000
101000000
15000000
150000000
25000000
120000000
165000000
175000000
250000000
240000000
240000000
20000000
20000000

Galveston District

Southern Area Office

Rio Grande Valley

Border Wall Resident Office

Staffing:

Resident Engineer – GS-14

Assistant Resident Engineer – GS-13

Office Engineer - GS-12 / GPC Approving Official

Office Engineer - GS-12 / GPC Approving Official – Alternate

Safety Officer – GS-12

Admin Assistant – GS-05-07 GPC holder

7ea Project Engineers – GS-12

14ea QA reps – GS 09-11

Facilities:

Resident Office should be located in the McAllen/Pharr area in close proximity of the I-2(US 83) and I-69C(US281) interchange to allow for ready access to the two main RGV corridors.

Resident Office should be fully furnished and consist of 13 offices (10'X10"min) for engineers and admin; space for 14 (8X8) cubicles for QA reps; 14X20 conference room with conference table for 14 chairs and 70" smart tv. Bathroom facilities shall consist of two toilets and two urinals for the men's room and two toilets for the women's bathroom. The leased facility shall include all utilities as well as Spectrum Business internet connectivity. Facility shall be hard wired with CAT 6 cabling/router internet and VOIP phone connectivity. Facility shall also be provided with wireless connection capability.

Additional Resources Required:

Personnel assigned to the RGV Border Wall Resident Office will need to be provided with a government lap top, smart phone/w email, desk phones, 27" monitors.

Field personnel will need to be provided with rental vehicles such as small SUVs or pick-up trucks GSA or Commercial Rentals.

Personnel Assignments:

The chart below shows the current projects being contemplated for construction:

Station	Zone	Project	Miles
Rio Grande City	1/2	RGV-002	3.68
McAllen	6	RGV-003	1.71
McAllen	8	RGV-004	5.47
McAllen	9	RGV-005	1.91
McAllen	9	RGV-001	3.06
McAllen	9	RGV-006	0.83
Weslaco	10	RGV-007	0.69
Weslaco	10	RGV-008	2.46
Weslaco	11	RGV-009	2.24
Weslaco	11	RGV-011	2.44
Weslaco	12	RGV-012	1.01
Weslaco	12	RGV-013	2.09
Weslaco	13	RGV-014	0.37
Weslaco	13	RGV-015	1.91

Note – RGV-010 is not listed in the table above but is included in the grouping below.

Based on Geographic Area and project length, the following personnel on duty assignments (PODs) are proposed assuming all the above projects are under construction concurrently:

POD1

RGV-002 – This project will probably consist of legacy PFF225 fence projects O-1, O-2 and O-3 which are in Los Ebanos, Rio Grande City and Roma TX. This project will require 1 Project Engineer and 2 QA reps.

POD2

RGV-003 and RGV-004 are believed to be in the McAllen/Mission area and combined total 7.18 miles. 1 Project Engineer and 2 QA reps.

POD3

RGV-005, RGV-001, and RGV-006 are shown to be in the McAllen area. The combined total miles are 5.77 miles. 1 Project Engineer and 2 QAs.

POD4

RGV-007. RGV-008 and RGV-009 are believed to be located south of Pharr and accessible via hwy 281. The mileage total is 5.39 miles. 1 Project Engineer and 2 QAs.

POD5

RGV-010 is located south of the town of Alamo and can accessed via FM907. It has a total of 2.93 miles and is expected to be the first project to go to construction. RGV-011 is right next to it and consists of 2.44 miles. Assuming it goes to construction during or soon after RGV-010 is concluded, it can be administered by the same staff – 1 Project Engineer and 1 QA.

POD6

RGV-012 and RGV are believed to be next to one another and South of Donna accessed via FM493. The total miles are 3.10. 1 Project Engineer and 1 QA

POD7

RGV-014 and RGV-015 are believed to be at the eastern most reach of the Weslaco Station area of responsibility which is near the town of Progresso TX and accessed via FM 1015. The total miles are 2.28. 1 Project Engineer and 1 QA

From: Hardbarger, Robert J CIV USARMY CESWF (US)
To: Villagomez, Enrique Jr CIV USARMY CESWG (US)
Cc: Dill, Richard S (Steve) CIV USARMY CESWF (US); Williams, Erin K CIV USARMY CESWF (US); Giacomozzi, Robert B (Rob) II CIV USARMY CESWF (US)
Subject: FW: ATS closes 19 MAY!
Date: Tuesday, May 16, 2017 1:43:59 PM

Rick,

In addition to RGV-010 DBB Construction (which I think you have already entered), please also enter the following into ATS:

1. San Diego 14 mi Primary Replacement D-B $101M Pre-Qual
2. Tecate 2 mi Primary Replacement D-B $15M HUB Zone MATOC Seed
3. El Paso 20 mi VF-PF Replacement D-B $150M Pre-Qual
4. El Paso 4.16 mi Primary Replacement D-B $25M 8(a) MATOC Seed
5. RGV 7.9 mi 'Project 2' New Barrier D-B $120M Pre-Qual
6. RGV 10.8 mi 'Project 3' New Barrier D-B $165M Pre-Qual
7. RGV 11.2 mi 'Project 4' New Barrier D-B $175M Pre-Qual
8. San Diego 14 mi Secondary Barrier D-B $250M Pre-Qual
9. RGV 16 mi 'West' New Barrier D-B $240M Pre-Qual
10. RGV 16 mi 'East' New Barrier D-B $240M Pre-Qual
11. AE TO Develop conceptual design and RFP for '18 Border Barrier Projects WEST $20M
12. AE TO Develop conceptual design and RFP for '18 Border Barrier Projects EAST $20M

Thank you,

Bob

Robert Hardbarger, PMP
Deputy for Progams
USACE - Borders PMO
[redacted]

-----Original Message-----
From: Hardbarger, Robert J CIV USARMY CESWF (US)
Sent: Tuesday, May 16, 2017 1:20 PM
To: Dill, Richard S (Steve) CIV USARMY CESWF (US) [redacted]; Richardson, James Jr CIV USARMY CESWF (US) [redacted]; Khatena, Jacob A CIV USARMY CESWF (US) [redacted]; Scott, D Dwain (Dwain) CIV USARMY CESWF (US) [redacted]; Tran, Timothy CIV (US) [redacted]; Rios, Adrian T CIV USARMY CESWF (US) [redacted]; Mahon, Joshua D CIV USARMY CESWF (US) [redacted]; Celone, Erin M CIV USARMY CESWF (US) [redacted] Brown, Rhonda G CIV USARMY CESWG (US)

[redacted] Villagomez, Enrique Jr CIV USARMY CESWG (US)
[redacted]; Ahlen, Karl T CIV USARMY CESPL (US)
[redacted]
Cc: Williams, Erin K CIV USARMY CESWF (US) [redacted]
Subject: ATS closes 19 MAY!

That's in 3 days--please make ATS entries for each action you expect CT to work this FY (more than just those you expect to be awarded by 30 SEP)

Thank you!

Bob

Robert Hardbarger, PMP
TI Branch Chief
USACE - ECSO
[redacted]

Date: 25 May 2017

Project Management Plan

Organization: SWF

Program : IIS

Project Title : Border Barrier System, RGV-01

PMP Status: ACTIVE

Project/P2 No. : 465841

Location: Alamo, Texas

PM Name: Villagomez, Rick
Date: 06/29/2017
Revision: 0
Revision Date:
Program Type: IIS
Funding Type: IIS
Risk Level: NYA

Scope Summary:

Construction of 2.93 miles of levee wall with a 150-ft enforcement zone in Alamo, Texas

PMP Acceptance Sheet

Approve

Endorse

Attached Documents

6.0 Schedule Milestones

465841 RGV01 Schedule.pdf

9.0 Risk Analysis

RGV-01 PRD Risk Register 5-15-17.pdf

1.0 General Scope

Project Scope (Services to be provided by USACE):

The United States Army Corps of Engineers (USACE) Fort Worth District is providing design and construction support to Customs and Border Protections (CBP) Border Patrol and Air and Marine (BPAM) Program Management Office (PMO) relative to their Tactical Infrastructure (TI) (e.g. levee wall, fence, roads, lights, drainage, and miscellaneous appurtenances) on the Southern international border including the Rio Grande Valley (RGV) Sector of the U.S. Border Patrol (USBP).

BPAM PMO will fund the design and construction of the project and provide overall project management on behalf of CBP. In addition, BPFTI will coordinate the necessary NEPA-related approvals. USACE will execute the design and construction of the project and assist BPFTI with the necessary real estate actions.

The project provides for the construction of 2.93 miles of tactical infrastructure and technology consisting of a reinforced concrete levee wall to the height of the existing levee with 18-ft tall steel bollards installed on the top of the wall with automated vehicle gates for access to the south of the levee wall, an 150 foot enforcement zone including vegetation removal, detection techology, enforcement zone lighting, video surveillance and an all-weather patrol road parallel to the levee wall. The area outside of the road will be re-vegetated as deemed appropriate by environmental and USBP.

Levee Wall:

The levee wall will be a concrete wall to the height of the levee crest with 18 ft. tall bollards installed in the top of the levee wall. The existing levees are certified by FEMA from a flood protection perspective so we will need to ensure the design and completed construction is re-certifiable, which we will likely be responsible for obtaining (IBWC will have final say). Levee safety reviews and an ITR will be conducted by USACE. The levee wall will include automated vehicle gates for access south of the levee wall.

Gates:

The automated vehicle gates will be metal with a minimum height of 18 feet and minimum width of 20 feet. The vehicle gates will be motorized overhead sliding gates with an enclosed drive and operator system that is operated by radio frequency activation and by pressing the appropriate pushbutton(s) on a control console/key pad with emergency manual operations capabilities. There are six potential openings along the levee wall that may require gating. Five openings would require vehicle gates and one opening would require a pedestrian gate. The actual number, location and type of the gates will be determined during the design phase.

Underground Sensor Detection System:

An underground sensor detection system will be installed in the enforcement zone. Its connection to the required electronics to make it operational will be the subject of a future project executed by USBP PMOD.

Lighting:

Enforcement zone LED lighting will be installed as part of this project. Ideally the light fixtures will be mounted on poles located within the approximate center of the enforcement zone but compliance with floodplain restrictions may dictate that they be mounted on the levee wall or bollards. The lights will be designed and constructed in accordance with the lighting design standards developed and confirmed as part of the San Luis lighting retrofit project recently completed in Yuma, AZ. The lights will be made fully functional as part of this project. The PMO will work with the appropriate stakeholders to develop solutions to avoid excess lighting beyond the enforcement zone.

All Weather Road:

1.0 General Scope

An all-weather aggregate patrol road (type FC-2) will be constructed on the south side and parallel to the levee wall and within the 150 ft enforcement zone. The specific location of the road witin the enforcement zone will be determined during the design phase of the project.

Vegetation Clearing:

All vegetation in the 150 ft. enforcement zone will be cleared.

Cameras:

The camera surveillance system will ensure visibility of the enforcement zone and southern approach. View shed analysis will be completed by USBP and provided to BPAM. Analysis will be required to ensure loss of power and visibility does not occur in the instance of a flood. All technology will be provided by USBP, infrastructure will be constructed and funded by BPAM.

The enforcement system is critical to RGV Sector's ability to prevent illegal entries (whether people, narcotics, etc.) and to achieve operational control of the border commensurate with Executive Order 13767. The project is located within Weslaco Station Zone 11 in Alamo, Texas. The project alignment will be along the south toe of the U.S. International Boundary and Water Commission (IBWC) levee along the maintenance road, see attached project map.

The project will be a design bid build construction project under an existing unrestricted horizontal MATOC at USACE. USACE, CBP, USBP, and IBWC technical reviews will happen concurrently.

Key Product Deliverables:

The key deliverables are the 100% design of the enforcement system by an AE firm and the construction of the enforcement system.

Customer Requirements:

The Border Patrol requires an enforcement system that meets its operational requirements. Reliance on the most current CBP Tactical Infrastructure (TI) Design Standards will ensure that Border Patrols requirements are met.

Project Goals:

This project involves the design and construction of a reinforced concrete levee wall to the height of the existing IBWC levee with 18-foot tall steel bollards installed in the top of the wall and automated vehicle gates for access south of the levee wall, an 150 foot enforcement zone including vegetation removal detection technology, enforcement zone lighting, video surveillance and an all-weather patrol road parallel to the levee wall. The area outside of the road will be re-vegetated as deemed appropriate by environmental and USBP.

Description of Special Requirements or Circumstances:

IBWC: The U.S. IBWC must review and concur with the design and completed construction of the levee wall.

FEMA: The design and completed construction must be approved and certified by FEMA according to their standards for flood protection. FEMA coordination will be an independent approval from IBWC, but will have similar effort to the IBWC approval. This will be a separate hydraulic model than the IBWC model.

1.0 General Scope

Real Estate:

NEPA:

1.1 Project Tasks

2.0 Project Delivery Team

2.1 Team Members

Team Member	Role	PHONE	EMAIL	Approve
Dill, Richard S	Program Manager	[redacted]	[redacted]	
MORRIS, Robert P	PMP Approver	[redacted]	[redacted]	

2.2 Roles and Responsibilities

Team Member	Contact Info	Role
Steve Dill	[redacted]	Program Manager
Rick Villagomez		Project Manager
Alice Austin		Contracting Officer
Erin Williams		Acq Program Manager
Karen Scheffer		Program Analyst Delissa
Chris Howeth		Scheduler

3.0 Critical Assumptions and Constraints

3.1 Critical Assumptions

1. AE firm will be able to complete 100% design by 30 Sep 2017.
2. Construction Funding will be available in time for FY18 construction contract award.
3. Environmental Waiver will be executed by 31 Oct 2017.
4. Adequate competition will be received.
5. Fair and Reasonable Price will be received.
6. Real Estate Clearance will be achieved in time for delayed NTP to be issued on the date identified within the IFB.

3.2 Critical Constraints

Funding Constraint:

Design funding will expire on 9/30/17. It is critical that the RFP be completed by the end of FY2017.

Real Estate Constraint:

Real Estate for the 0.3 mile option will need to be acquired.

4.0 Work Breakdown Structure

Project Management

Kick Off Meeting - complete

Project Requirements Document Drafted
PMP Approved

Design
Receipt of AE money - complete
AE SOW/QASP/FOS - complete
AE IGE - complete
AE Requirement Advertised - complete
AE Proposal Received - complete
AE Task Order Award – complete

Construction
Pre-Solicitation Notice
Final Docs from AE firm
OC review of IFB
Advertise
Bid Opening
Pre-Award Activities
Congressional Notification
Construction Funds Received
IFB Award
Bonds Received
Pre-Con
1st NTP (base 2.6 miles)
2nd NTP (option 0.3 miles)
Construction Complete

5.0 Funding / Resources

5.1 Funding Requirements - Performance Measurements

Customer Requirements about Requesting/Receiving Funds:
Funds will be requested via the DHS change management process in the FITT system.

Customer Reporting Requirements:
Customer reporting requirements are still under development. It is anticipated that the P2 project has been set up in a manner so as to allow easy automated reporting. This assumption is based upon historical knowledge of DHS reporting requirements and understanding of the current political climate associated with border rence construciton.

Available Budget:
AE funding and associated USACE labor in the amount of $1M is available.
Construction funding will become availabe between 8/1 and 9/30 and will expire on 9/30/15.
Construction management funding will become available between 8/1 and 9/30 and will be available for use in FY16.

Fiscal Year Funding Limitations:
Construction funds will expire on 9/30/15

Construction Cost Limitation:
Not applicable.

Resource Estimates per WBS Task:

Project Managment	$200K
Real Estate	$20K
Environmental	$20K
Design	$1.2M
Construction	$11.75M
Construction Oversight	$600K

5.2 Cost Sharing Agreement

6.0 Schedule

P2 Schedule Attached.

DOCUMENTS

1. West_of_San_Luis_POE 050515_pg01.pdf

7.0 Project Quality Control Plan and Objectives

7.1 Customer Objectives and Project Objectives

This project involves the removal and replacement of an estimated 1.8 miles of existing primary pedestrian fence (PF) along the International Border adjacent to the city of San Luis Arizona. The replacement PF will be comprised of bollard style fence with plate (type P-3), will be 18 ft (typical) in height and shall include gates at each of the International Boundary and Water Commission (IBWC) boundary monuments.

7.2 Quality Management Plan

AE Contract Quality Management Plan:
A QASP has been prepared and the COR will provide appropriate oversite.

Construction Contract Quality Management Plan:
The Construction contractor will submit a QC plan and the USACE construction management team will provide appropriate oversite.

8.0 Acquisition Strategy

Contracts to be Used:
AE Contract: W9126G-15-D-0009, Baker Construction
Contract: Unrestricted Horizontal MATOC

Capacity Required:
AE Contract: $4M
Construction Contract: $45M

Expected Award Date:
AE Contract: 5/28
Construciton Contract: 9/21

Capacity Reservation Status:
AE Contract: Will reserve on 5/22 when available in IDIQ database
Construciton Contract: NA

ATS Number(s):
AE Contract: 15-1311
Construciton Contract: TBD

Deputy for Small Business Approval:
AE Contract: Verbal recieved, SF2579 to follow
Construciton Contract: Not yet recieved.

9.0 Risk Analysis

Risk Register Attached.

DOCUMENTS

10.0 Safety and Occupational Health Plan

Safety and Health Related Hazards:
Safety will be a large issue during construction as the project is located in a dangerous area of the US - Mexico border. The construction contractor will be required to have an evacuation and rally plan in addition to all of the normal safe and health plans.

Control Measures:
The construction contractor, border patrol, and USACE will coordinate on an as needed basis to ensure that the construction contractor is not on the border during high risk periods.

11.0 Change Management

Changes will be processed via the DHS change management process in FITT.

12.0 Communications

12.1 Internal Communications

Communication Methods and Frequency for Customer and Team
The USACE and DHS have a daily 7:30 am phone call to discuss this project and email throughout the day as necessary.

Customer Requirements for Status Reporting
Reporting requirements are still being identified but P2 is being set up to facilitate the reporting that is anticipated to be required.

Documentation of Project Records

Project records will be maintained in the DHS FITT system.

12.2 External Communications

External communications will be coordinated with DHS and USACE PAO.

12.3 Customer/Partner Communications

Communication Methods and Frequency for Customer and Team
The USACE and DHS have a daily 7:30 am phone call to discuss this project and email throughout the day as necessary.

13.0 Value Management Plan

Value Management Plan:
The VE will occur concurrent with the 30% design review

Expected Cost
$5K

Workshop Date
TBD

14.0 Close Out

Project Closeout plan:
1. USACE will complete project, fiscal, and contractual closeout in a timely manner.
2. USACE will turn the asset over to DHS at project completion.
3. DHS will add this asset to its books at the time of project completion.

15.0 Environmental

NEPA: Environmental waiver expected to be signed by 30 October 2017

16.0 Geospatial Data Management Plan

The AE contractor will provide any GIS data that is needed for this project.

Issuing District * *	M2 - SWF
Requesting Office *	CESWF-ECSO
District Where Work Located * *	M3 - SWG (GALVESTON DISTRICT)
Project Location (State) * *	TX - Texas
Location (Installation/Lake/City) *	Rio Grande
Other Location (Not In Lists)	
Project Type * *	IIS
P2 Project Number or N/A * *	466412
Title * *	RGV Project 3 - 10.8 Miles New Barrier D-B
PM POC Name * *	Villagomez, Enrique Jr CIV USARMY CESWG (US)
Alternate PM POC	
Category * *	Construction
Sub Category * *	General
Contract Action Description *	RGV Project 3, 10.8 miles of new barrier design build contract to be awarded to one of the firms on the Pre-Qualified list for the Border wall program.

PM Remarks for CT Assignment	Contracting Officer Linda Eadie
Fiscal Year Action * *	FY2017
Funds Expire * *	No
Initial Est Award Amount * *	$165,000,000.00
Subjective to Availability of Funds * *	Yes
Priority * *	3 - Current FY Regular Program
Sole Source * *	No
Sole Source Justification	NA
Vendor Name * *	NA
Sustainable * *	Yes
Appl Clauses for Sustainable Acq	
Set Aside * *	☐ 8(a) ☐ HZS ☐ SVC ☐ EDWOSB ☐ 8aS ☐ HBMI ☐ SVS ☑ None ☐ HZC ☐ SB ☐ WO
P2 Contract Activity/Work Item *	TBD
CT Labor Charge Code * *	012345
CT Labor Code Amount * *	$20,000.00

Close

Content Type: Item
Created at 5/31/2017 1:54:05 PM by Villagomez, Enrique Jr CIV USARMY CESWG (US)
Last modified at 5/31/2017 2:33:14 PM by Villagomez, Enrique Jr CIV USARMY CESWG (US)

Issuing District * *	M2 - SWF
Requesting Office *	CESWF-ECSO
District Where Work Located * *	M3 - SWG (GALVESTON DISTRICT)
Project Location (State) * *	TX - Texas
Location (Installation/Lake/City) *	Rio Grande
Other Location (Not In Lists)	
Project Type * *	IIS
P2 Project Number or N/A * *	466413
Title * *	RGV Project 4 - 11.2 Miles New Barrier D-B
PM POC Name * *	Villagomez, Enrique Jr CIV USARMY CESWG (US)
Alternate PM POC	
Category * *	Construction
Sub Category * *	General
Contract Action Description *	RGV Project 4, 11.2 miles of new barrier design build contract to be awarded to one of the firms on the Pre-Qualified list for the Border Wall program.

PM Remarks for CT Assignment	Contracting Officer Linda Eadie
Fiscal Year Action * *	FY2017
Funds Expire * *	No
Initial Est Award Amount * *	$175,000,000.00
Subjective to Availability of Funds * *	Yes
Priority * *	3 - Current FY Regular Program
Sole Source * *	No
Sole Source Justification	NA
Vendor Name * *	NA
Sustainable * *	Yes
Appl Clauses for Sustainable Acq	
Set Aside * *	☐ 8(a) ☐ HZS ☐ SVC ☐ EDWOSB ☐ 8aS ☐ HBMI ☐ SVS ☑ None ☐ HZC ☐ SB ☐ WO
P2 Contract Activity/Work Item *	TBD
CT Labor Charge Code * *	012345
CT Labor Code Amount * *	$20,000.00

Close

Content Type: Item
Created at 5/31/2017 2:00:27 PM by Villagomez, Enrique Jr CIV USARMY CESWG (US)
Last modified at 5/31/2017 2:31:51 PM by Villagomez, Enrique Jr CIV USARMY CESWG (US)

Issuing District * *	M2 - SWF
Requesting Office *	CESWF-ECSO
District Where Work Located * *	M3 - SWG (GALVESTON DISTRICT)
Project Location (State) * *	TX - Texas
Location (Installation/Lake/City) *	Rio Grande
Other Location (Not In Lists)	
Project Type * *	IIS
P2 Project Number or N/A * *	TBD
Title * *	RGV 16 Miles 'East' New Barrier D-B
PM POC Name * *	Villagomez, Enrique Jr CIV USARMY CESWG (US)
Alternate PM POC	
Category * *	Construction
Sub Category * *	General
Contract Action Description *	RGV 16 miles 'East' New Barrier Design-Build contract to be awarded to one of the firms on the Pre-Qualified list for the Border Wall program.

PM Remarks for CT Assignment	Contracting Officer Linda Eadie
Fiscal Year Action * *	FY2017
Funds Expire * *	No
Initial Est Award Amount * *	$240,000,000.00
Subjective to Availability of Funds * *	Yes
Priority * *	3 - Current FY Regular Program
Sole Source * *	No
Sole Source Justification	NA
Vendor Name * *	NA
Sustainable * *	Yes
Appl Clauses for Sustainable Acq	
Set Aside * *	☐ 8(a) ☐ HZS ☐ SVC ☐ EDWOSB ☐ 8aS ☐ HBMI ☐ SVS ☑ None ☐ HZC ☐ SB ☐ WO
P2 Contract Activity/Work Item *	TBD
CT Labor Charge Code * *	012345
CT Labor Code Amount * *	$20,000.00

Close

Content Type: Item
Created at 5/31/2017 3:28:42 PM by Villagomez, Enrique Jr CIV USARMY CESWG (US)
Last modified at 5/31/2017 3:28:44 PM by Villagomez, Enrique Jr CIV USARMY CESWG (US)

TABLE 1 - RGV 30 Mile Base Segments

Station Location	Length miles	Designation		Degrees, Decimal Minutes							
				Lat Start		Long Start		Lat End		Long End	
Rio Grande City	3.68	RGV-002	No Levee	26	24.6401	99	2.7303	26	23.6660	98	59.9170
McAllen	1.71	RGV-003	No Levee	26	14.5298	98	33.9847	26	14.8876	98	33.2186
McAllen	5.47	RGV-004	Levee	26	11.5040	98	24.4147	26	10.0852	98	20.0486
McAllen	1.91	RGV-005	Levee	26	10.0852	98	20.0486	26	8.6279	98	19.3290
McAllen	3.06	RGV-001	Levee	26	8.1047	98	17.8761	26	8.7860	98	15.3030
McAllen	0.83	RGV-006	Levee	26	8.3693	98	15.4527	26	7.7140	98	15.7023
Weslaco	0.69	RGV-007	Levee	26	5.4125	98	14.9486	26	5.5285	98	14.3767
Weslaco	2.46	RGV-008	Levee	26	5.5285	98	14.3767	26	5.1538	98	12.1118
Weslaco	2.24	RGV-009	Levee	26	5.1538	98	12.1118	26	4.9643	98	10.1359
Weslaco	2.93	RGV-010	Levee	26	4.9637	98	10.1358	26	4.6190	98	7.4607
Weslaco	2.44	RGV-011	Levee	26	4.6190	98	7.4607	26	4.3681	98	5.2852
Weslaco	1.10	RGV-012	Levee	26	4.4031	98	4.5601	26	4.0241	98	4.0976
Weslaco	2.09	RGV-013	Levee	26	4.5967	98	1.2895	26	4.5669	97	59.4293
Weslaco	0.37	RGV-014	Levee	26	3.8031	97	57.1439	26	3.7792	97	56.7999
Weslaco	1.91	RGV-015	Levee	26	3.9722	97	54.8093	26	4.2851	97	53.4912

Not on levee. Currently not on drilling schedule, no access to sites.

Base 2.93 mile segment. RGV-010.

Option 3 - 7.8 miles. Segments RGV-011 to RGV-015.

	Miles	
Total	**32.9**	**Total project miles**
Base 2.93 miles Floodwall	2.93	100 % design
Base 29.87 miles	29.96	Drilling and lab only
Option 3 - 7.9 miles	7.91	Preliminary analysis and design based on Base 29.87 mile Drilling
Base 29.87- Floodwall	24.57	
Base 29.87 - Fence off	5.39	
Total Fence on Levee	27.50	

Issuing District * *	M2 - SWF
Requesting Office *	CESWF-ECSO
District Where Work Located * *	M3 - SWG (GALVESTON DISTRICT)
Project Location (State) * *	TX - Texas
Location (Installation/Lake/City) *	Rio Grande
Other Location (Not In Lists)	
Project Type * *	IIS
P2 Project Number or N/A * *	TBD
Title * *	RGV 16 Miles 'West' New Barrier D-B
PM POC Name * *	Villagomez, Enrique Jr CIV USARMY CESWG (US)
Alternate PM POC	
Category * *	Construction
Sub Category * *	General
Contract Action Description *	RGV 16 miles 'West' New Barrier D-B contract to be awarded to one of the firms on the Pre-Qualified list for the Border Wall program.

PM Remarks for CT Assignment	Contracting Officer Linda Eadie
Fiscal Year Action * *	FY2017
Funds Expire * *	No
Initial Est Award Amount * *	$240,000,000.00
Subjective to Availability of Funds * *	Yes
Priority * *	3 - Current FY Regular Program
Sole Source * *	No
Sole Source Justification	NA
Vendor Name * *	NA
Sustainable * *	Yes
Appl Clauses for Sustainable Acq	
Set Aside * *	☐ 8(a) ☐ HZS ☐ SVC ☐ EDWOSB ☐ 8aS ☐ HBMI ☐ SVS ☑ None ☐ HZC ☐ SB ☐ WO
P2 Contract Activity/Work Item *	TBD
CT Labor Charge Code * *	012345
CT Labor Code Amount * *	$20,000.00

Close

Content Type: Item
Created at 5/31/2017 3:04:55 PM by Villagomez, Enrique Jr CIV USARMY CESWG (US)
Last modified at 5/31/2017 3:04:56 PM by Villagomez, Enrique Jr CIV USARMY CESWG (US)

From: Thomas, Robert C III CIV USARMY CESWG (US)
Sent: Tuesday, July 18, 2017 8:22 AM
To: Hardbarger, Robert J CIV USARMY CESWF (US)
Cc: Villagomez, Enrique Jr CIV USARMY CESWG (US)
Subject: FW: Border Fence Discussions

Hi Bob,

Brian mentioned we were required to follow our ERs and I understand the drilling has already been
completed or is nearly so? You are running that part right?

Rob

-----Original Message-----
From: Thomas, Robert C III CIV USARMY CESWG (US)
Sent: Monday, July 17, 2017 8:12 AM
To: Villagomez, Enrique Jr CIV USARMY CESWG (US) [redacted] Michalsky, Cris J CIV USARMY CESWG (US) [redacted] King, Joseph L CIV USARMY CESWG
(US) [redacted] Hernandez, Pablo CIV USARMY CESWG (US) [redacted] Leimer, Matthew S CIV USARMY CESWG (US) [redacted]
Subject: RE: Border Fence Discussions

Hi everyone,

I got the update from Brian G today from all the LSO goings on last week. He noted that Rick was on all
the calls so we are covered already. As Rick mentioned last week, Brian didn't see any show stoppers
either. Notes will go to HQ Wed with us getting a chance to comment today or tomorrow. The big
improvement they want to add is interim life safety measures which aren't a big deal as long as we
include them in the contract. Also mentioned that we are using I&R money to do PIs there asap.

One thing that did come up is the drilling plan. They should not be drilling until the plan is approved. If
they are, please let me know. We plan to approve it locally without the HQ time, but they need to
address those questions first.

Rob

-----Original Message-----
From: Giacomozzi, Brian T CIV (US)
Sent: Thursday, July 13, 2017 3:30 PM
To: Thomas, Robert C III CIV USARMY CESWG (US) [redacted]
Subject: Fwd: Border Fence Discussions

To discuss next week

From: "Komoroske, Paul E CIV USARMY CESWD (US)"
Sent: Thursday, July 13, 2017 1:18 PM

To: "ZALESAK, Michael R CIV USARMY CESWD (US)" ,"Sterling, Michael C CIV USARMY CESWD (US)"
CC: "Fink, Steven J CIV USARMY USACE (US)" ,"Giacomozzi, Brian T CIV (US)" ,"Brasher, Brian S CIV USARMY CESWF (US)"
Subject: Border Fence Discussions

Z/Doc

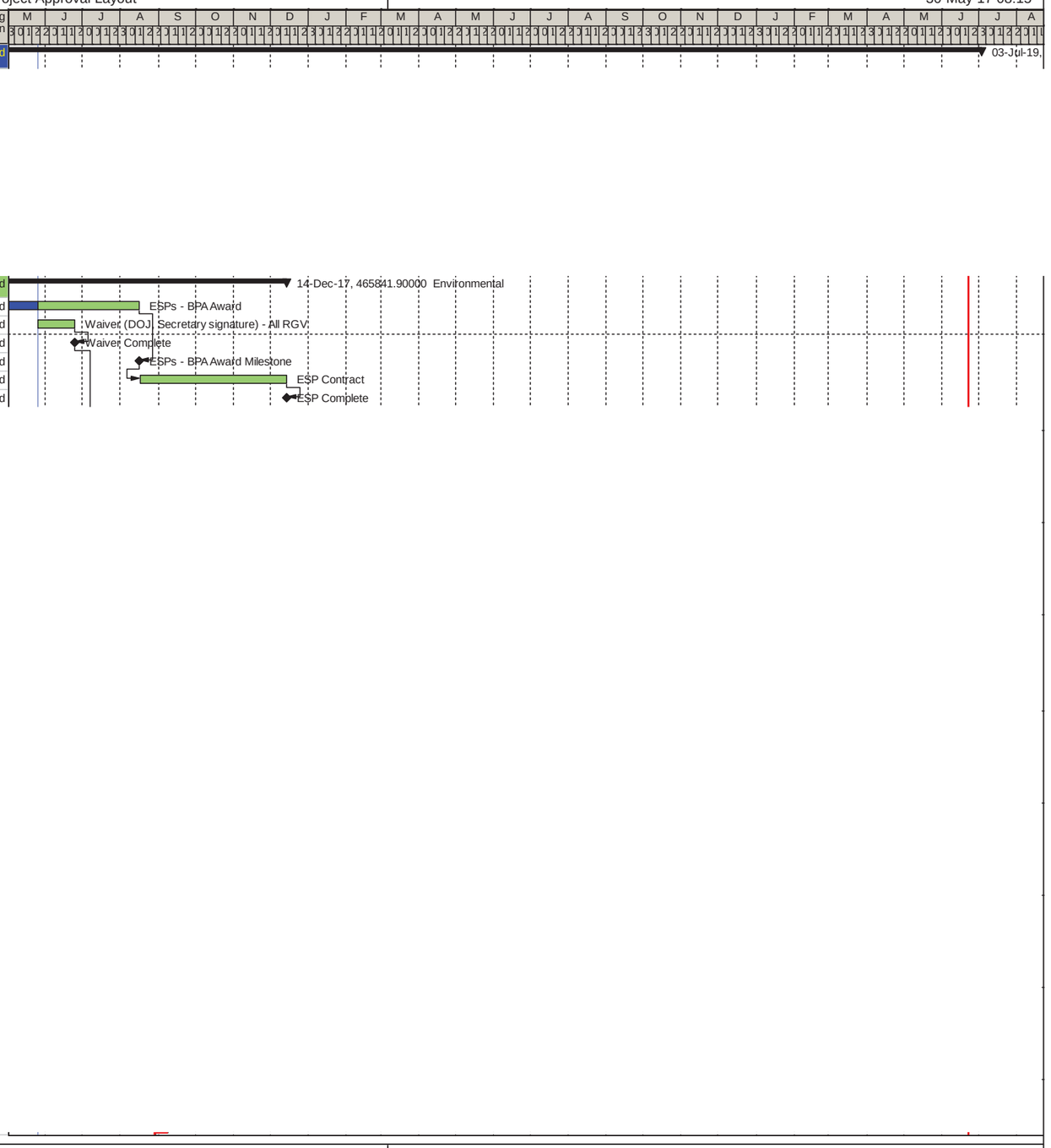
Participated in border fence discussion on IBWC levees today. Brian Giacomozzi requested the call with Eric Halpin to get further guidance on procedures to follow on design/construction of the T wall and bollard fence on top. Some recommendations made:

1- Follow Corps tech design standards
2-Inspect and Screen impacted IBWC levees as part of inspection initiative of all "outlier" levees. I believe our regional team is ready to go
3-RMC and others to send Brian G some guidance on interim protection measures to have in place once the front side of the levee is peeled back prior to T wall installation.
4-I sent SWF latest I had from FEMA Region 6 on certification status of the impacted levees. SWF , FEMA, and IBWC to meet next week to discuss further
5-Eric advised not to deliver "certification/accreditation" as part of construction but we should be able to rebuild to original design which may get them their
6-Fence will be 18 ft high above wall, embedded 4 ft in wall, consists of 6 by 6 square pipe with 4 inch gaps
7- Steve Fink had asked me whether this project may be a good one for next Levee Safety Newsletter. Seemed to be hesitancy in group about messaging this potentially politically sensitive project

Copying both Brian's in case I missed anything

Paul

Activity ID	Activity Name	Activity Type	Activity Status	Start	Finish	Original Duration	Remaining Duration
465841 CBP SWBBS RGV-010				10-Apr-17 A	03-Jul-19	590.0d	528.0d
465841.90000 Environmental				10-Apr-17 A	14-Dec-17	173.0d	139.0d
ENV1010	ESPs - BPA Award	Task Dependent	In Progress	10-Apr-17 A	16-Aug-17	97.0d	83.0d
ENV1000	Waiver (DOJ, Secretary signature) - All RGV	Task Dependent	Not Started	26-May-17	24-Jun-17	30.0d	30.0d
ENV1005	Waiver Complete	Finish Milestone	Not Started		24-Jun-17	0.0d	0.0d
ENV1015	ESPs - BPA Award Milestone	Finish Milestone	Not Started		16-Aug-17	0.0d	0.0d
ENV1020	ESP Contract	Task Dependent	Not Started	17-Aug-17	14-Dec-17	120.0d	120.0d
ENV1030	ESP Complete	Finish Milestone	Not Started		14-Dec-17	0.0d	0.0d



Activity ID	Activity Name
465841 CBP SWBBS RGV-010	
465841.01000 Project Management	
PM1050	Project Management
PM1000	Start PMP
PM1020	Draft PMP
PM1030	Process PMP for Approval
PM1040	Approve PMP
PCO1000	Fiscal Closeout
465841.01000.01 Planning Phase	
PLAN1000	Planning Funds Received
PLAN1010	Kick-off Meeting
PLAN1020	PRD Complete
465841.90000 Environmental	
ENV1010	ESPs - BPA Award
ENV1000	Waiver (DOJ, Secretary signature) - All RGV
ENV1005	Waiver Complete
ENV1015	ESPs - BPA Award Milestone
ENV1020	ESP Contract
ENV1030	ESP Complete
465841.95000 Real Estate	
465841.95000.03 Real Estate - 2.6 Miles on Federal Land	
RE1020	RE Certification for 2.6 Miles on Federal Land
465841.95000.04 Real Estate - 0.3 Mile Option	
RE1100	Obtain Voluntary Rights of Entry
RE1120	Title Work
RE1110	Condemn ROEs
RE1130	Legal Description
RE1140	Valuation
RE1150	Negotation
RE1160	Possession through Condemnation
RE1170	RE Certification Required
465841.40000 Design & Procurement	
AE-S1060	SWF SOW Prep
AE-S1070	MVK SOW Prep
AE-S1080	SWG SOW Prep
AE-S1075	MVP SOW Prep (H&H)
PROC1000	RGV-010 SWBBS
AE-S1150	CBP RGV-010 Design Contract (Base)
465841.40000.01 A/E Solicitation & Award	
AE-S1090	A/E SOW Complete
AE-S1100	A/E RFP Complete
AE-S1110	A/E Proposal Preparation
AE-S1120	Pre-Award Activities
AE-S1125	CBP Congressional Notification
AE-S1130	ROE-S Required
AE-S1140	Award

465841.40000.02	Design
DES1110	Charrette at Installation
DES1120	Design Charrette Complete
DES1130	NTP Design Acknowledged
DES1160	Geotechnical Survey
DES1170	Topographic Survey
DES1220	35% Design Start (milestone)
DES1210	35% Design Submittal
DES1230	35% Submittal Review
DES1235	BCOES 35% Submittal Review
DES1240	35% Review Conference
DES1250	35% Design Submittal Reviewed and Approved
DES1270	65% Design Start (milestone)
DES1260	65% Design Submittal
DES1280	65% Submittal Review
DES1640	BCOES 65% Submittal Review
DES1290	65% Review Conference
DES1300	65% Design Submittal Reviewed and Approved
DES1320	95% Design Start (milestone)
DES1310	95% Design Submittal
DES1330	95% Submittal Review
DES1650	BCOES 95% Submittal Review
DES1340	95% Review Conference
DES1350	95% Design Submittal Reviewed and Approved
DES1360	100% Design Submittal Start
DES1370	100% Design Submittal Review
DES1361	Submit Final RFP
DES1390	100% Design Submittal Reviewed and Approved
DES1660	BCOES Review/Certification
DES1400	BCOES Analysis Complete
465841.40000.03	Construction Procurement: Unrestricted MATOC
465841.40000.03.01	Pre-Solicitation Phase
PROC1090	ATS Request
PROC1520	PDT Acquisition Strategy Meetings
PROC1003	Acquisition Strategy Meetings Complete
PROC1060	Issues Sources Sought
PROC1080	Sources Sought/Analysis
PROC1010	Market Research/DSBS Analysis
PROC1145	COR Nomination (if required, see guide)
PROC1014	DD2579 SB Coordination Record
PROC1020	Informal Acquisition Plan
PROC1015	Prepare DIV 00 / DIV 01 Specs
PROC1018	HQ SCA Review/Approve J&A's (if required, see guide)
PROC1005	Prepare Draft Evaluation Criteria and Draft Source Sele
PROC1055	Review Draft Evaluation Criteria and Draft Source Selec
PROC1019	J&A's Approved
PROC1560	Finalize Evaluation Criteria and Source Selection Plan (
PROC1610	Prepare Final Solicitation Document

PROC2060	Prepare Synopsis (Pre-Solicitation Notice)
PROC2070	Synopsis Period in FedBizOps
PROC2080	Issue Synopsis in FedBizOpps
PROC1530	OC Review
PROC1540	Compliance Review (if required, see guide)
PROC1550	Solicitation Review Board (SRB Peer Review) (if require
PROC1580	SRB Peer Review Complete (if required, see guide)
PROC1570	RTA
465841.40000.03.02	Solicitation Phase
PROC1180	Solicitation Period in FedBizOpps
PROC1170	Advertise
PROC1190	Conduct Pre-Proposal Conference (If desired)
PROC1600	Site Visits
PROC1200	Proposals Received
465841.40000.03.04	Evaluation Phase
PROC1350	CT Reviews Proposals for Compliance with RFP
PROC1360	Source Selection Evaluation Board (SSEB) In-Brief / Eva
PROC1370	Preliminary SSEB Report from Chairperson
PROC1400	Discussions (if required by KO)
PROC1405	Competitive Range Determination by KO
PROC1430	Competitive Range Determination OC Approval
PROC1410	Final Proposal Revisions Submission (if required)
PROC1420	SSEB Evaluation of Revised Proposals (if required)
PROC1440	Final SSEB Report from Chairperson
PROC1445	SSAC (if required, see guide)
PROC1446	SSAC Report (if required, see guide)
PROC1450	Prepare Source Selection Decision Document (SSDD)
PROC1500	OC Review Source Selection Decision Document (SSDD
PROC1590	Approve Source Selection Decision Document (SSDD) b
465841.40000.03.05	Award Phase
PROC2040	Provide Certified Purchase Request & Commitment (PR
PROC2050	CPARS Form
PROC2030	COR Appointment (if required, see guide)
PROC1460	Preparation of Award Documents
PROC1465	OC Review
PROC1470	Contract Compliance Review
PROC1480	Contract Review Board (CRB Peer Review) (if required,
PROC1487	Issue Small Business Advance Award Notification
PROC1490	Congressional Notification
PROC1510	Contract Award
465841.60000	Construction
465841.60000.01	DBB Features of Contract
CONS1010	Contract Award
CONS1020	Bonding and Submittals
CONS1030	Pre-Con/NTP
CONS1040	Construction NTP Acknowledged
CONS1060	Contract
CONS1070	Supervision & Administration

CONS1050	Construction Start Date
CONS1080	Commissioning Start
CONS1120	Construction Completion
CONS1090	Beneficial Occupancy Date
CONS1100	Physical Closeout
CONS1110	Contractor Final Payment
CONS1130	Product/Service Delivered

Activity Type	Activity Status	Start	Finish
		10-Apr-17 A	3-Jul-19
		10-Apr-17 A	3-Jul-19
Level of Effort	In Progress	10-Apr-17 A	3-Jul-19
Start Milestone	Completed	10-Apr-17 A	
Task Dependent	Not Started	26-May-17	31-Jul-17
Task Dependent	Not Started	1-Aug-17	21-Aug-17
Finish Milestone	Not Started		22-Aug-17
Finish Milestone	Not Started		3-Jul-19
		10-Apr-17 A	2-Jun-17
Finish Milestone	Completed		10-Apr-17 A
Task Dependent	Completed	10-Apr-17 A	10-Apr-17 A
Task Dependent	In Progress	11-Apr-17 A	2-Jun-17
		10-Apr-17 A	14-Dec-17
Task Dependent	In Progress	10-Apr-17 A	16-Aug-17
Task Dependent	Not Started	26-May-17	24-Jun-17
Finish Milestone	Not Started		24-Jun-17
Finish Milestone	Not Started		16-Aug-17
Task Dependent	Not Started	17-Aug-17	14-Dec-17
Finish Milestone	Not Started		14-Dec-17
		10-Apr-17 A	21-Dec-17
		26-Jun-17	26-Jun-17
Finish Milestone	Not Started		26-Jun-17
		10-Apr-17 A	21-Dec-17
Task Dependent	In Progress	10-Apr-17 A	13-Jun-17
Task Dependent	In Progress	10-Apr-17 A	15-Sep-17
Task Dependent	Not Started	14-Jun-17	15-Aug-17
Task Dependent	Not Started	14-Jun-17	15-Sep-17
Task Dependent	Not Started	17-Jul-17	18-Oct-17
Task Dependent	Not Started	18-Sep-17	18-Oct-17
Task Dependent	Not Started	19-Oct-17	21-Dec-17
Finish Milestone	Not Started		21-Dec-17
		14-Apr-17 A	5-Nov-18
Level of Effort	In Progress	14-Apr-17 A	16-Jun-17
Level of Effort	In Progress	14-Apr-17 A	16-Jun-17
Level of Effort	In Progress	14-Apr-17 A	16-Jun-17
Level of Effort	In Progress	20-Apr-17 A	26-May-17
Task Dependent	In Progress	01-May-17 A	28-Aug-17
Task Dependent	Not Started	17-Jun-17	16-Jun-18
		14-Apr-17 A	16-Jun-17
Task Dependent	Completed	14-Apr-17 A	20-Apr-17 A
Task Dependent	Completed	21-Apr-17 A	12-May-17 A
Task Dependent	Completed	13-May-17 A	24-May-17 A
Task Dependent	Not Started	26-May-17	7-Jun-17
Task Dependent	Not Started	8-Jun-17	16-Jun-17
Finish Milestone	Not Started		13-Jun-17
Finish Milestone	Not Started		16-Jun-17

		19-Jun-17	4-May-18
Task Dependent	Not Started	19-Jun-17	19-Jun-17
Finish Milestone	Not Started		19-Jun-17
Finish Milestone	Not Started		19-Jun-17
Task Dependent	Not Started	20-Jun-17	20-Jun-17
Task Dependent	Not Started	20-Jun-17	20-Jun-17
Start Milestone	Not Started	21-Jun-17	
Task Dependent	Not Started	21-Jun-17	23-Aug-17
Task Dependent	Not Started	24-Aug-17	7-Sep-17
Task Dependent	Not Started	24-Aug-17	7-Sep-17
Task Dependent	Not Started	8-Sep-17	8-Sep-17
Finish Milestone	Not Started		8-Sep-17
Start Milestone	Not Started	9-Sep-17	
Task Dependent	Not Started	11-Sep-17	14-Nov-17
Task Dependent	Not Started	15-Nov-17	29-Nov-17
Task Dependent	Not Started	15-Nov-17	29-Nov-17
Task Dependent	Not Started	30-Nov-17	30-Nov-17
Finish Milestone	Not Started		30-Nov-17
Start Milestone	Not Started	1-Dec-17	
Task Dependent	Not Started	3-Jan-18	8-Mar-18
Task Dependent	Not Started	9-Mar-18	22-Mar-18
Task Dependent	Not Started	9-Mar-18	22-Mar-18
Task Dependent	Not Started	23-Mar-18	23-Mar-18
Finish Milestone	Not Started		23-Mar-18
Start Milestone	Not Started	24-Mar-18	
Task Dependent	Not Started	26-Mar-18	13-Apr-18
Finish Milestone	Not Started		13-Apr-18
Finish Milestone	Not Started		15-Apr-18
Task Dependent	Not Started	16-Apr-18	4-May-18
Finish Milestone	Not Started		4-May-18
		8-Sep-17	5-Nov-18
		8-Sep-17	4-May-18
Finish Milestone	Not Started		8-Sep-17
Task Dependent	Not Started	11-Sep-17	19-Sep-17
Finish Milestone	Not Started		19-Sep-17
Finish Milestone	Not Started		19-Sep-17
Task Dependent	Not Started	20-Sep-17	1-Nov-17
Task Dependent	Not Started	2-Nov-17	15-Dec-17
Finish Milestone	Not Started		14-Nov-17
Task Dependent	Not Started	18-Dec-17	22-Dec-17
Task Dependent	Not Started	26-Dec-17	2-Jan-18
Task Dependent	Not Started	26-Dec-17	2-Jan-18
Task Dependent	Not Started	26-Dec-17	16-Jan-18
Task Dependent	Not Started	3-Jan-18	9-Jan-18
Task Dependent	Not Started	10-Jan-18	10-Jan-18
Finish Milestone	Not Started		16-Jan-18
Task Dependent	Not Started	17-Jan-18	23-Jan-18
Task Dependent	Not Started	24-Jan-18	30-Jan-18

Task Dependent	Not Started	24-Jan-18	24-Jan-18
Task Dependent	Not Started	25-Jan-18	8-Feb-18
Start Milestone	Not Started	25-Jan-18	
Task Dependent	Not Started	31-Jan-18	2-Feb-18
Task Dependent	Not Started	31-Jan-18	8-Feb-18
Task Dependent	Not Started	9-Feb-18	23-Mar-18
Finish Milestone	Not Started		23-Mar-18
Finish Milestone	Not Started		4-May-18
		4-May-18	2-Jun-18
Task Dependent	Not Started	4-May-18	2-Jun-18
Finish Milestone	Not Started		4-May-18
Task Dependent	Not Started	16-May-18	16-May-18
Task Dependent	Not Started	16-May-18	16-May-18
Finish Milestone	Not Started		2-Jun-18
		4-Jun-18	17-Aug-18
Task Dependent	Not Started	4-Jun-18	8-Jun-18
Task Dependent	Not Started	11-Jun-18	22-Jun-18
Task Dependent	Not Started	25-Jun-18	29-Jun-18
Task Dependent	Not Started	2-Jul-18	10-Jul-18
Task Dependent	Not Started	11-Jul-18	13-Jul-18
Task Dependent	Not Started	16-Jul-18	18-Jul-18
Finish Milestone	Not Started		18-Jul-18
Task Dependent	Not Started	19-Jul-18	23-Jul-18
Task Dependent	Not Started	24-Jul-18	30-Jul-18
Task Dependent	Not Started	31-Jul-18	2-Aug-18
Finish Milestone	Not Started		2-Aug-18
Task Dependent	Not Started	3-Aug-18	9-Aug-18
Task Dependent	Not Started	10-Aug-18	14-Aug-18
Task Dependent	Not Started	15-Aug-18	17-Aug-18
		17-Aug-18	5-Nov-18
Finish Milestone	Not Started		17-Aug-18
Task Dependent	Not Started	20-Aug-18	21-Aug-18
Task Dependent	Not Started	22-Aug-18	22-Aug-18
Task Dependent	Not Started	23-Aug-18	6-Sep-18
Task Dependent	Not Started	7-Sep-18	11-Sep-18
Task Dependent	Not Started	12-Sep-18	14-Sep-18
Task Dependent	Not Started	12-Sep-18	24-Oct-18
Task Dependent	Not Started	25-Oct-18	31-Oct-18
Task Dependent	Not Started	1-Nov-18	5-Nov-18
Finish Milestone	Not Started		5-Nov-18
		5-Nov-18	3-Jul-19
		5-Nov-18	3-Jul-19
Finish Milestone	Not Started		5-Nov-18
Task Dependent	Not Started	6-Nov-18	25-Nov-18
Finish Milestone	Not Started		25-Nov-18
Finish Milestone	Not Started		25-Nov-18
Task Dependent	Not Started	26-Nov-18	23-Jun-19
Level of Effort	Not Started	26-Nov-18	3-Jul-19

Start Milestone	Not Started	26-Nov-18	
Finish Milestone	Not Started		25-Apr-19
Finish Milestone	Not Started		23-Jun-19
Finish Milestone	Not Started		24-Jun-19
Finish Milestone	Not Started		3-Jul-19
Finish Milestone	Not Started		3-Jul-19
Finish Milestone	Not Started		3-Jul-19

Original Duration	Remaining Duration	Remaining Total Cost	Actual Total Cost	At Completion Total Cost
590.0d	528.0d	$546,252.23	$0.00	$546,252.23
590.0d	528.0d	$0.00	$0.00	$0.00
528.0d	528.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
45.0d	45.0d	$0.00	$0.00	$0.00
15.0d	15.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
6.0d	5.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
1.0d	0.0d	$0.00	$0.00	$0.00
5.0d	5.0d	$0.00	$0.00	$0.00
173.0d	139.0d	$0.00	$0.00	$0.00
97.0d	83.0d	$0.00	$0.00	$0.00
30.0d	30.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
120.0d	120.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
178.0d	144.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
178.0d	144.0d	$0.00	$0.00	$0.00
22.0d	12.0d	$0.00	$0.00	$0.00
88.0d	78.0d	$0.00	$0.00	$0.00
44.0d	44.0d	$0.00	$0.00	$0.00
66.0d	66.0d	$0.00	$0.00	$0.00
66.0d	66.0d	$0.00	$0.00	$0.00
22.0d	22.0d	$0.00	$0.00	$0.00
44.0d	44.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
393.0d	363.0d	$546,252.23	$0.00	$546,252.23
13.0d	15.0d	$21,252.23	$0.00	$21,252.23
13.0d	15.0d	$1,000.00	$0.00	$1,000.00
13.0d	15.0d	$1,500.00	$0.00	$1,500.00
1.0d	0.0d	$2,500.00	$0.00	$2,500.00
65.0d	65.0d	$20,000.00	$0.00	$20,000.00
365.0d	365.0d	$500,000.00	$0.00	$500,000.00
45.0d	15.0d	$0.00	$0.00	$0.00
5.0d	0.0d	$0.00	$0.00	$0.00
3.0d	0.0d	$0.00	$0.00	$0.00
5.0d	0.0d	$0.00	$0.00	$0.00
8.0d	8.0d	$0.00	$0.00	$0.00
7.0d	7.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00

221.0d	221.0d	$0.00	$0.00	$0.00
1.0d	1.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
1.0d	1.0d	$0.00	$0.00	$0.00
1.0d	1.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
45.0d	45.0d	$0.00	$0.00	$0.00
10.0d	10.0d	$0.00	$0.00	$0.00
10.0d	10.0d	$0.00	$0.00	$0.00
1.0d	1.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
45.0d	45.0d	$0.00	$0.00	$0.00
10.0d	10.0d	$0.00	$0.00	$0.00
10.0d	10.0d	$0.00	$0.00	$0.00
1.0d	1.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
45.0d	45.0d	$0.00	$0.00	$0.00
10.0d	10.0d	$0.00	$0.00	$0.00
10.0d	10.0d	$0.00	$0.00	$0.00
1.0d	1.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
15.0d	15.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
15.0d	15.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
290.0d	290.0d	$0.00	$0.00	$0.00
163.0d	163.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
7.0d	7.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
30.0d	30.0d	$0.00	$0.00	$0.00
30.0d	30.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
5.0d	5.0d	$0.00	$0.00	$0.00
5.0d	5.0d	$0.00	$0.00	$0.00
5.0d	5.0d	$0.00	$0.00	$0.00
14.0d	14.0d	$0.00	$0.00	$0.00
5.0d	5.0d	$0.00	$0.00	$0.00
1.0d	1.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
5.0d	5.0d	$0.00	$0.00	$0.00
5.0d	5.0d	$0.00	$0.00	$0.00

1.0d	1.0d	$0.00	$0.00	$0.00
15.0d	15.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
3.0d	3.0d	$0.00	$0.00	$0.00
7.0d	7.0d	$0.00	$0.00	$0.00
30.0d	30.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
20.0d	20.0d	$0.00	$0.00	$0.00
30.0d	30.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
1.0d	1.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
54.0d	54.0d	$0.00	$0.00	$0.00
5.0d	5.0d	$0.00	$0.00	$0.00
10.0d	10.0d	$0.00	$0.00	$0.00
5.0d	5.0d	$0.00	$0.00	$0.00
6.0d	6.0d	$0.00	$0.00	$0.00
3.0d	3.0d	$0.00	$0.00	$0.00
3.0d	3.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
3.0d	3.0d	$0.00	$0.00	$0.00
5.0d	5.0d	$0.00	$0.00	$0.00
3.0d	3.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
5.0d	5.0d	$0.00	$0.00	$0.00
3.0d	3.0d	$0.00	$0.00	$0.00
3.0d	3.0d	$0.00	$0.00	$0.00
54.0d	54.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
2.0d	2.0d	$0.00	$0.00	$0.00
1.0d	1.0d	$0.00	$0.00	$0.00
10.0d	10.0d	$0.00	$0.00	$0.00
3.0d	3.0d	$0.00	$0.00	$0.00
3.0d	3.0d	$0.00	$0.00	$0.00
30.0d	30.0d	$0.00	$0.00	$0.00
5.0d	5.0d	$0.00	$0.00	$0.00
3.0d	3.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
240.0d	240.0d	$0.00	$0.00	$0.00
240.0d	240.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
20.0d	20.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
210.0d	210.0d	$0.00	$0.00	$0.00
220.0d	220.0d	$0.00	$0.00	$0.00

0.0d	0.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00
0.0d	0.0d	$0.00	$0.00	$0.00

RMS Interface	Milestone - Construction	Milestone - Civil Works
		CW030
		CW040
		CW470
		CW801

RMS_M_CONTRACT_AWARD	CC800	
RMS_M_NTP_ACKNOWLEDG	CC810	
RMS_A_CONTRACT		
RMS_L_SNA		

	CC815	
	CC845	
RMS_M_CONS_COMPLETE	CC820	
RMS_M_BEN_OCC_DATE	CC850	
RMS_M_CONS_COMP_PHYS	CC840	
RMS_M_CONS_COMP_FISC	CC880	

Milestone - Military	M0 Milestone - Local	M2 Milestone - Construction	FM&E Number

ML065			
ML060			
ML110			
ML140			
ML150			
ML100			
ML160			
ML190			
	SWD-CT0010		

ML220			
ML180			
ML230			
ML240			
	SWD-CT03		

Column1	Column2	Column3
Activity ID	Activity name	Cost Account
Project: 465841 CBP SWBBS RGV-010		
WBS: 465841.40000 Design & Procurement		
DES1000 (New Activity)	Design Support (SWF)	096 3122 999
DES1000 (New Activity)	Design Support (SWF)	096 3122 999
DES1000 (New Activity)	Design Support (SWF)	096 3122 999
DES1000 (New Activity)	Design Support (SWF)	096 3122 999
DES1000 (New Activity)	Design Support (SWF)	096 3122 999
DES1000 (New Activity)	Design Support (SWF)	096 3122 999
DES1000 (New Activity)	Design Support (SWF)	096 3122 999
DES1001 (New Activity)	Design Support (SWG)	096 3122 999
DES1001 (New Activity)	Design Support (SWG)	096 3122 999
DES1001 (New Activity)	Design Support (SWG)	096 3122 999
DES1001 (New Activity)	Design Support (SWG)	096 3122 999
DES1001 (New Activity)	Design Support (SWG)	096 3122 999
DES1001 (New Activity)	Design Support (SWG)	096 3122 999
DES1001 (New Activity)	Design Support (SWG)	096 3122 999
DES1001 (New Activity)	Design Support (SWG)	096 3122 999
WBS: 465841.01000 Project Management		
PM1050	Project Management (SWG)	096 3122 999
PM1050	Project Management (SWG)	096 3122 999
PM1050	Project Management (SWG)	096 3122 999
PM1050	Project Management (SWG)	096 3122 999
PM1051	Project Management (SWF)	096 3122 999
PM1051	Project Management (SWF)	096 3122 999
WBS: 465841.60000.01 DBB Features of Contract		
CONS1070	Supervision & Administration	096 3122 999
CONS1070	Supervision & Administration	096 3122 999
CONS1070	Supervision & Administration	096 3122 999
CONS1070	Supervision & Administration	096 3122 999

Column4	Column5
Role ID	Resource ID Name
M2L1720	M2L1720.CESWF-EC-DC - CIVIL SECTION
M2L1770	M2L1770.CESWF-EC-DS - STRUCTURAL SECTION
M2L1830	M2L1830.CESWF-EC-AC - COST ENGINEERING/SPECS SECTION
M2	H&H SME
M2	Regional Levee Safety Program Manager
M2	Scheduler
M2	Program Analyst
	Subtotal Design Support M2 (SWF)
M3L1000	E&C
M3L1100	Engr Br
M3L1120	Geotech & Structures Section
M3L1160	Dam and Levee Safety Section
M3L1300	Constr Br
M3L1320	Southern Area Office
M3L1322	RGV Office
M3L1000	TRAVEL
	Subtotal Design Support M3 (SWG)
M3H0000	M3H0000.CESWG-PM - PROGRAMS & PROJECT MGMT
M3H0100	M3H0100.CESWG-PM-G - PROGRAMS MANAGEMENT BRANCH
M3H0200	M3H0200.CESWG-PM-J - PROJECT MANAGEMENT BRANCH
M3H0000	TRAVEL
	Subtotal PM M3 (SWG)
M260300	M260300.TACTICAL INFRASTRUCTURE BRANCH
M260000	TRAVEL
	Subtotal PM M2 (SWF)

M3L1300	Constr Br
M3L1320	Southern Area Office
M3L1322	RGV Office
M3L1300	

Column6
Budget
$24,000.00
$14,500.00
$5,000.00
$14,500.00
$14,500.00
$5,000.00
$5,000.00
$82,500.00
$12,000.00
$11,500.00
$45,000.00
$35,000.00
$15,000.00
$12,000.00
$33,000.00
$10,000.00
$173,500.00
$15,000.00
$8,000.00
$285,000.00
$18,000.00
$326,000.00
$162,000.00
$36,000.00
$198,000.00

Issuing District * *	M2 - SWF
Requesting Office *	CESWF-ECSO
District Where Work Located * *	M3 - SWG (GALVESTON DISTRICT)
Project Location (State) * *	TX - Texas
Location (Installation/Lake/City) *	Rio Grande
Other Location (Not In Lists)	
Project Type * *	IIS
P2 Project Number or N/A * *	465841
Title * *	RGV Project 1 - 2.9 Miles New Barrier
PM POC Name * *	Villagomez, Enrique Jr CIV USARMY CESWG (US)
Alternate PM POC	
Category * *	Construction
Sub Category * *	General
Contract Action Description *	DBB contract utilizing the Unrestricted SWD Horizontal MATOC for the Border Wall program

PM Remarks for CT Assignment	Contracting Officer Linda Eadie
Fiscal Year Action * *	FY2017
Funds Expire * *	No
Initial Est Award Amount * *	$45,000,000.00
Subjective to Availability of Funds * *	No
Priority * *	3 - Current FY Regular Program
Sole Source * *	No
Sole Source Justification	NA
Vendor Name * *	NA
Sustainable * *	Yes
Appl Clauses for Sustainable Acq	
Set Aside * *	☐ 8(a) ☐ HZS ☐ SVC ☐ EDWOSB ☐ 8aS ☐ HBMI ☐ SVS ☑ None ☐ HZC ☐ SB ☐ WO
P2 Contract Activity/Work Item *	TBD
CT Labor Charge Code * *	012345
CT Labor Code Amount * *	$20,000.00

Close

Content Type: Item
Created at 5/31/2017 3:56:34 PM by Villagomez, Enrique Jr CIV USARMY CESWG (US)
Last modified at 5/31/2017 4:00:37 PM by Villagomez, Enrique Jr CIV USARMY CESWG (US)

From: Russo, Edmond J Jr CIV USARMY CESWG (US)
To: Zetterstrom, Lars N COL USARMY CESWG (US)
Cc: Williams, Byron D CIV USARMY CESWG (US); Willey, Sheridan S (Sheri) CIV USARMY CESWG (US); Villagomez, Enrique Jr CIV USARMY CESWG (US); Tirpak, Sharon M CIV USARMY CESWG (US); Miller, Valerie L CIV (US); Thomas, Robert C III CIV USARMY CESWG (US); Erickson, Jared B LTC USARMY CESWG (US)
Subject: Border Wall Program Telecom Update
Date: Thursday, May 25, 2017 2:40:51 PM

Sir, below is a summary of weekly subject telecom.

- Project RGV 1 - 2.9 mi levee wall primarily on NWL refuge land, include patrol lights, RVS, draft PRD currently circulating for signature. SWG has review call with CBP next WED to discuss PRD for negotiation/award mid JUN 17. Kickoff meeting, charette will follow soon thereafter. Expect to receive funds for fence/gate replacement in early JUN 17. Options available in A/E contract can be exercised to apply these funds. RE working to better understand requirements associated with gate replacements.

- FY 17 $77M for access roads still being defined by CBP as next priority for design-build of 4 projects, one of which is in RGV.

- USACE support to prototype effort being done by ERDC, phase 1 complete, phase 2 expected to start in AUG 17.

- DRAFT Joint Base OPORD for TF Southwest Border between SWD and SPD has been circulated for review and comment by 13 JUN 17.

- Acquisition documentation for prequalification of sources is being reviewed by HQ for approval, 8 projects, $1.9 B. Currently have short term contract capacity, will be working on building additional capacity to support program execution. ATS requests for FY 17 program have been made.

- Preparing to issue first BPA for RE title work on gates for public roads condemnation.

VR,

Edmond J. Russo, Jr., PhD, PE, D.CE, D.NE, D.WRE
Deputy District Engineer for Programs and Project Management
USACE, Galveston District

From: [redacted]
To: [redacted]
Subject: New Acquisition SWG-17-0104 Submitted - Program = IIS
Date: Tuesday, May 16, 2017 8:35:37 AM

A New Acquisition SWG-17-0104 has been Entered, see information Below:
Category: Construction
SubCategory: General
Program: IIS
Official Title: Border Barrier System RGV-010
Location: Rio Grande Valley Sector, Weslaco Station
State: Texas
Initial Estimated Amount: $45,000,000.00
Base And All Options Value: $45,000,000.00
Funds Expire: No
Priority: 3
Sole Source: No
Sustainable Acquisition: Yes
Vendor Name: Unrestricted SWD Horizontal MATOC
Set Aside: None
Dist. Where Proj. Located: Galveston
AE Used: No
Subject to Avail. Funds: Yes
Labor Code: 012345
Labor Code Funding Amount: $20,000.00
P2 Number:465841
P2 Title:CBP SWBBS RGV-010
P2 Activity ID:AP1020
P2 Activity Title:AWARD
PM POC: ENRIQUE VILLAGOMEZ, JR
Requesting Office: CESWG-PM-J
Customer Remarks: D-B-B contract utilizing unrestricted SWD horizontal MATOC. RTA Sep 2017. PM - Rick Villagomez. PgM - Steve Dill.

Requested By: M3ECXEV3

Thank you,
ATS Administrator

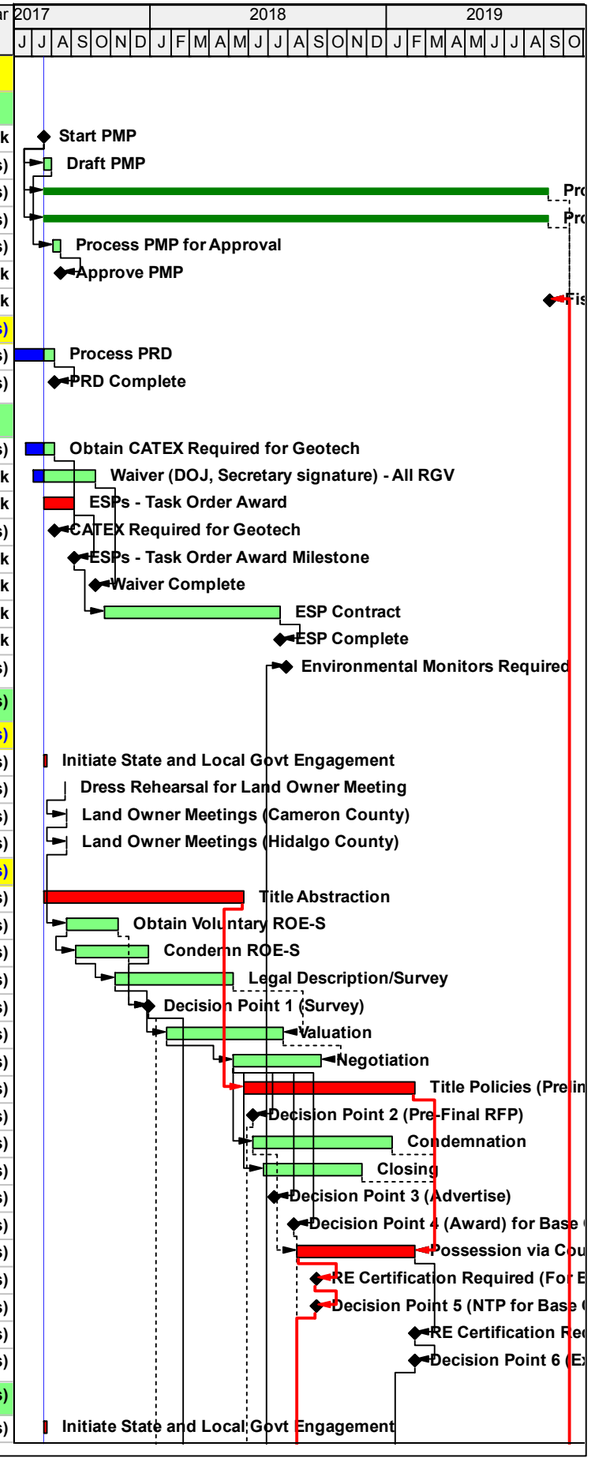
Michael Baker INTERNATIONAL

Dallas Office [redacted] Make a Difference

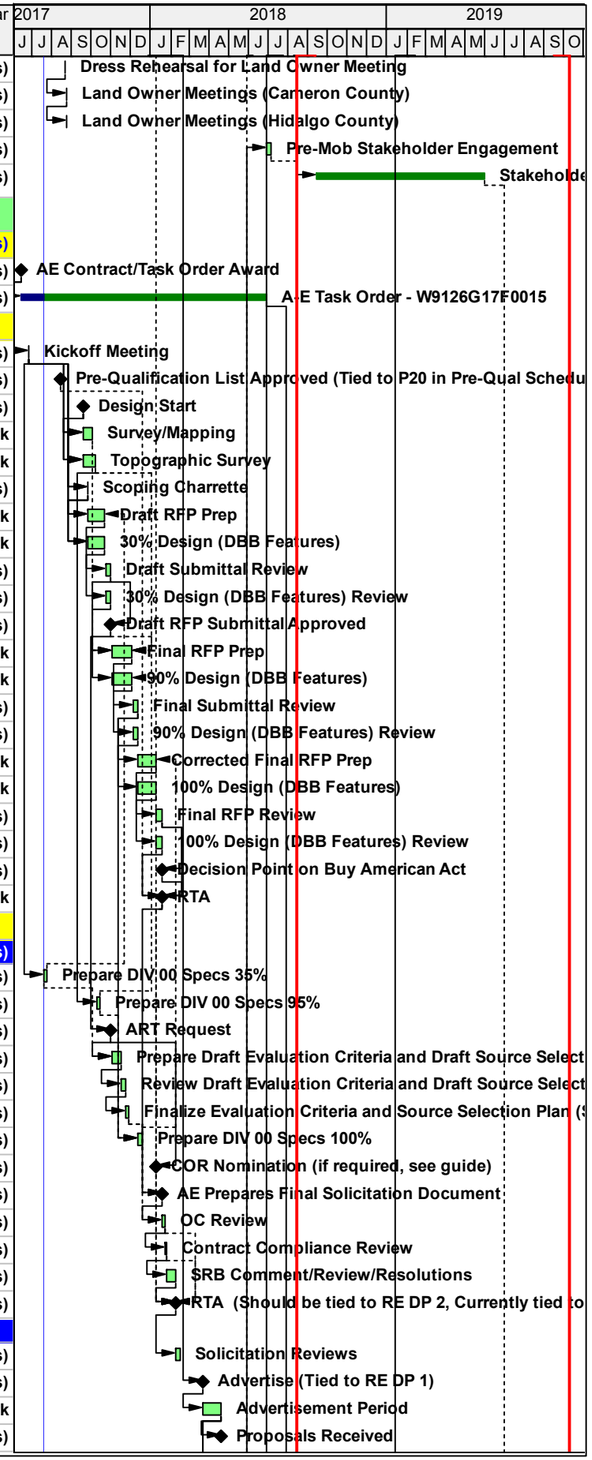
RGV(2.93) RFI List

PRIORITY	ITEM	INFORMATION NEEDED	DATE NEEDED	RESPONSE
1	Cross Section	We need the 150' section. Will the service road be on north or south edge? Irrigation water to pond inside the 150'?	7/12/2017	
2	Maintenance Road Flood elevation	Will the maintenance road be required to be elevated so as to be above a certain flood event? If so, what flood event? We are not sure what fill in the floodplain will require without checking with the Floodplain Administrator (Hidalgo County). The likely work flow would be for CBP to tell us what they want, we model to see if the impacts exceed IBWC's criteria, depending on the results potentially some iteration, then coordination with Hidalgo and FEMA to approve fill in the floodplain.	7/12/2017	
3	Levee Wall Footing Turndown	Does the flood wall footing need to have a turndown to satisfy 6'-0" underdigging requirements, or is this not required for flood walls?	7/12/2017	
4	Hidalgo County/Local Irrigation Districts	When can we start coordination with Hidalgo County and local irrigation districts on FEMA floodplain issues?	7/12/2017	
5	Falcon Dam to Penitas	We need proposed fence alignments from Falcon Dam to Penitas. Will this be Bollard Fencing?	7/12/2017	Not applicable to RGV-01.
6	RVSS Tower on Levee Wall	In discussion with RVSS folks at the July 6th meeting, they indicated that for a 120' tower height, the tower type would likely be a self-supporting tower, not a monopole: -If tower is self supporting: Due to the footprint of a self-supporting tower of that height, we will likely not be able to "bump out" the wall to support all legs of the tower. Where can we place the tower since it would likely not be able to be placed on the wall? Will need the tower footprint dimensions. To do the foundation design, we will need the loads to the foundation that correspond to the tower superstructures 100% capacity. -If tower is a monopole: Need all dimensions of the pole, fixtures, base plate, and anchor bolts. For a monopole, we can "bump out" the wall to support it. -Is it possible to have more frequent, shorter RVSS towers that would be a monopole, as that allows for easier placement directly on the wall?	7/17/2017	
7	Fiber Optic Location	Is there a preference on Fiber Optic Alignment location? The scope of work references in-placing fiber optic cabling in conduit along the centerline of the enforcement zone, and telecommunications lines for future use stubbed out at the base of the towers. What are the conduit size, innerduct, and cabling requirements? Is additional future capacity needed in addition to what will be provided for our portion of the design?	7/17/2017	
8	Fiber Optic Specs	Are Fiber Optic Specs available?	7/17/2017	
9	Lighting Requirements	What are the lighting requirements? How much of the 150' swath needs to be illuminated? Please clarify the parameters for the lighting level required, in terms of intensity (footcandles), color temperature, color rendering index (CRI), and uniformity (max/min/avg ratios) within and along the 150' swath.	7/17/2017	
10	Gates	What types of Gates and have locations been identified. IBWC gates and private gates.	7/17/2017	
11	Clearance limits	What are the observation ramp vegetation clearance limits?	7/17/2017	
12	Back up Generator	Is on-site generation of back-up power required (stand-by generator)? If so, should this be a full utility service backup or used for select critical systems only?	7/17/2017	
13	Power Redundancy	Is redundancy of utility power service required, i.e. multiple utility source locations with capability of switching between the sources?	7/17/2017	Power redundancy of utility power service is not available.
14	Lighting Controls/Monitoring	What are the lighting control and monitoring requirements, i.e. simple photocells/timers vs. more complex monitoring and control systems?	7/17/2017	
15	Buy American	Will this project be required to meet Buy America(n) requirements?	7/17/2017	
16	Seeding	Native grass to reseed with inside the 150'	7/21/2017	Recommend USFWS provide specification for seed mix to reseed 150' swath.
17	Observation Ramp Location	Is there a preferred fence alignment on observation ramp?	7/17/2017	
18	Staging Areas	Have staging areas been identified?	7/21/2017	
19	Utility Connection Points	Are the locations of the utility connection points already known by the government and if so, can they be provided?	7/21/2017	
20	Utility Layout Guide	Is there already an idea of the layout of the site in mind by the team they can use as a guide to connect to those points for power and telecommunications?	7/21/2017	
21	Utility Company POC's	Can we get POC's from the local utility companies to coordinate with or a government POC to coordinate through for information?	7/21/2017	

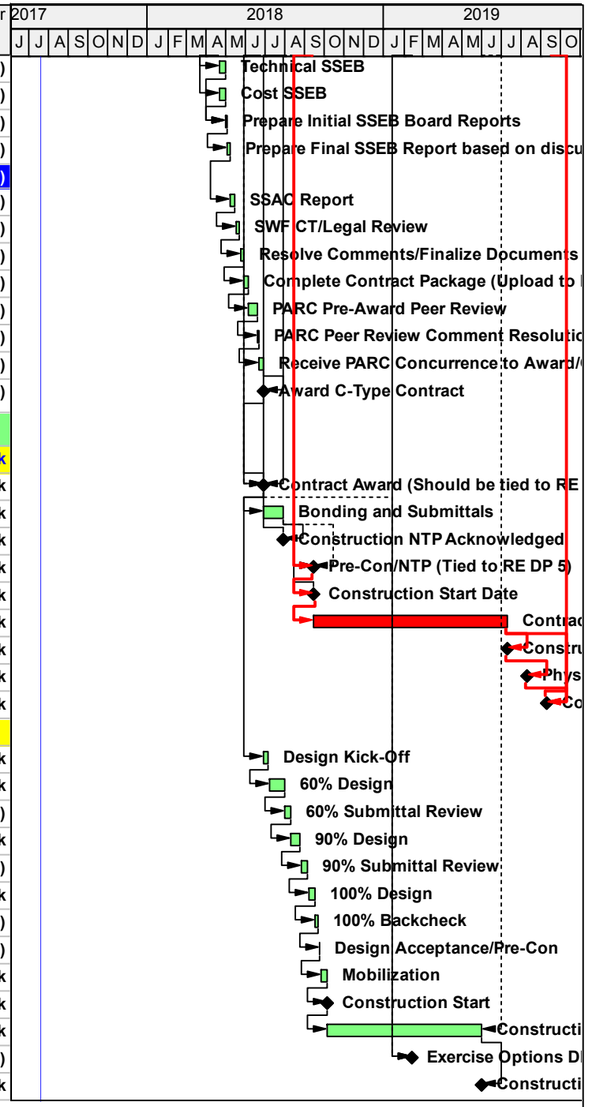
#	Activity ID	Activity Name	Start	Finish	Remaining Duration	Predecessors	Calendar
1	**466411 CBP SWBBS RGV-02**		01-Jun-17 A	08-Sep-19	537d		
2	**466411.01000 Project Management**		01-Jun-17 A	08-Sep-19	537d		
3	PM1000	Start PMP	19-Jul-17		0d		7 - Day Workweek
4	PM1020	Draft PMP	19-Jul-17	01-Aug-17	10d	PM1000	5 - Day Workweek (w/ Holidays)
5	PM1050	Project Management (SWG)	19-Jul-17	06-Sep-19	537d	PM1000	5 - Day Workweek (w/ Holidays)
6	PM1055	Project Management (SWF)	19-Jul-17	06-Sep-19	537d	PM1000	5 - Day Workweek (w/ Holidays)
7	PM1030	Process PMP for Approval	02-Aug-17	14-Aug-17	9d	PM1020	5 - Day Workweek (w/ Holidays)
8	PM1040	Approve PMP		14-Aug-17	0d	PM1030	7 - Day Workweek
9	PCO1000	Fiscal Closeout		08-Sep-19	0d	CONS1080, PM1050, PM105	7 - Day Workweek
10	**466411.01000.01 Planning Phase**		01-Jun-17 A	04-Aug-17	13d		5 - Day Workweek (w/ Holidays)
11	PLAN1020	Process PRD	01-Jun-17 A	04-Aug-17	13d		5 - Day Workweek (w/ Holidays)
12	PLAN1030	PRD Complete		04-Aug-17	0d	PLAN1020	5 - Day Workweek (w/ Holidays)
13	**466411.95000 Environmental**		21-Jun-17 A	30-Jul-18	258d		
14	ENV1023	Obtain CATEX Required for Geotech	21-Jun-17 A	04-Aug-17	13d		5 - Day Workweek (w/ Holidays)
15	ENV1000	Waiver (DOJ, Secretary signature) - All RGV	03-Jul-17 A	07-Oct-17	81d		7 - Day Workweek
16	ENV1010	ESPs - Task Order Award	19-Jul-17*	04-Sep-17	48d		7 - Day Workweek
17	ENV1025	CATEX Required for Geotech		04-Aug-17	0d	ENV1023	5 - Day Workweek (w/ Holidays)
18	ENV1015	ESPs - Task Order Award Milestone		04-Sep-17	0d	ENV1010	7 - Day Workweek
19	ENV1005	Waiver Complete		07-Oct-17	0d	ENV1000	7 - Day Workweek
20	ENV1020	ESP Contract	21-Oct-17	20-Jul-18	273d	ENV1015	7 - Day Workweek
21	ENV1030	ESP Complete		20-Jul-18	0d	ENV1020	7 - Day Workweek
22	ENV1040	Environmental Monitors Required		30-Jul-18	0d	CONS1020	5 - Day Workweek (w/ Holidays)
23	**466411.90000 Real Estate**		19-Jul-17	13-Feb-19	394d		5 - Day Workweek (w/ Holidays)
24	**466411.90000.1 Communications Outreach**		19-Jul-17	24-Aug-17	27d		5 - Day Workweek (w/ Holidays)
25	RE1000	Initiate State and Local Govt Engagement	19-Jul-17*	25-Jul-17	5d		5 - Day Workweek (w/ Holidays)
26	RE1005	Dress Rehearsal for Land Owner Meeting	22-Aug-17*	22-Aug-17	1d		5 - Day Workweek (w/ Holidays)
27	RE1010	Land Owner Meetings (Cameron County)	23-Aug-17	23-Aug-17	1d	RE1005	5 - Day Workweek (w/ Holidays)
28	RE1020	Land Owner Meetings (Hidalgo County)	24-Aug-17	24-Aug-17	1d	RE1010	5 - Day Workweek (w/ Holidays)
29	**466411.90000.2 Real Estate Clearance**		19-Jul-17	13-Feb-19	394d		5 - Day Workweek (w/ Holidays)
30	RE1241	Title Abstraction	19-Jul-17*	24-May-18	214d		5 - Day Workweek (w/ Holidays)
31	RE1230	Obtain Voluntary ROE-S	25-Aug-17	10-Nov-17	54d	RE1020	5 - Day Workweek (w/ Holidays)
32	RE1250	Condemn ROE-S	08-Sep-17	28-Dec-17	76d	RE1230	5 - Day Workweek (w/ Holidays)
33	RE1260	Legal Description/Survey	07-Nov-17	08-May-18	125d	RE1250	5 - Day Workweek (w/ Holidays)
34	RE3331	Decision Point 1 (Survey)		28-Dec-17	0d	RE1230, RE1250	5 - Day Workweek (w/ Holidays)
35	RE1270	Valuation	25-Jan-18	24-Jul-18	126d	RE1260, RE1260	5 - Day Workweek (w/ Holidays)
36	RE1280	Negotiation	08-May-18	21-Sep-18	96d	RE1270, RE1270	5 - Day Workweek (w/ Holidays)
37	RE1242	Title Policies (Preliminary & Final)	25-May-18	13-Feb-19	180d	RE1241	5 - Day Workweek (w/ Holidays)
38	RE3333	Decision Point 2 (Pre-Final RFP)		07-Jun-18	0d	RE1280	5 - Day Workweek (w/ Holidays)
39	RE1300	Condemnation	08-Jun-18	08-Jan-19	146d	RE1280	5 - Day Workweek (w/ Holidays)
40	RE1290	Closing	25-Jun-18	23-Nov-18	105d	RE1280	5 - Day Workweek (w/ Holidays)
41	RE3335	Decision Point 3 (Advertise)		10-Jul-18	0d	RE1280	5 - Day Workweek (w/ Holidays)
42	RE3345	Decision Point 4 (Award) for Base Contract)		09-Aug-18	0d	RE1280	5 - Day Workweek (w/ Holidays)
43	RE1310	Possession via Court	14-Aug-18	13-Feb-19	125d	RE1300, RE1242, RE1300, F	5 - Day Workweek (w/ Holidays)
44	RE1330	RE Certification Required (For Base Contract)		13-Sep-18	0d	RE1310	5 - Day Workweek (w/ Holidays)
45	RE3355	Decision Point 5 (NTP for Base Contract)		13-Sep-18	0d	RE1330	5 - Day Workweek (w/ Holidays)
46	RE1340	RE Certification Required (For Options)		13-Feb-19	0d	RE1310	5 - Day Workweek (w/ Holidays)
47	RE3366	Decision Point 6 (Exercise Options)		13-Feb-19	0d	RE1340	5 - Day Workweek (w/ Holidays)
48	**466411.91000 Strategic Communications**		19-Jul-17	31-May-19	469d		5 - Day Workweek (w/ Holidays)
49	SC1020	Initiate State and Local Govt Engagement	19-Jul-17*	25-Jul-17	5d		5 - Day Workweek (w/ Holidays)



#	Activity ID	Activity Name	Start	Finish	Remaining Duration	Predecessors	Calendar
50	SC1030	Dress Rehearsal for Land Owner Meeting	22-Aug-17*	22-Aug-17	1d		5 - Day Workweek (w/ Holidays)
51	SC1040	Land Owner Meetings (Cameron County)	23-Aug-17	23-Aug-17	1d	SC1030	5 - Day Workweek (w/ Holidays)
52	SC1050	Land Owner Meetings (Hidalgo County)	24-Aug-17	24-Aug-17	1d	SC1040	5 - Day Workweek (w/ Holidays)
53	SC1060	Pre-Mob Stakeholder Engagement	29-Jun-18	06-Jul-18	5d	CONS1000	5 - Day Workweek (w/ Holidays)
54	SC1070	Stakeholder Engagement During Construction	14-Sep-18	31-May-19	178d	CONS1040	5 - Day Workweek (w/ Holidays)
55	**466411.40000 Design Build/RFP & Procurement**		14-Jun-17 A	28-Jun-18	238d		
56	**466411.40000.01 AE Procurement**		14-Jun-17 A	28-Jun-18	238d		5 - Day Workweek (w/ Holidays)
57	DES1530	AE Contract/Task Order Award		14-Jun-17 A	0d		5 - Day Workweek (w/ Holidays)
58	DES1570	A-E Task Order - W9126G17F0015	14-Jun-17 A	28-Jun-18	238d	DES1530	5 - Day Workweek (w/ Holidays)
59	**466411.40000.02 Design**		26-Jun-17 A	17-Jan-18	105d		
60	AE-C0990	Kickoff Meeting	26-Jun-17 A	26-Jun-17 A	0d	DES1530	5 - Day Workweek (w/ Holidays)
61	AE-C1057	Pre-Qualification List Approved (Tied to P20 in Pre-Qual Schedule)		15-Aug-17*	0d		5 - Day Workweek (w/ Holidays)
62	AE-C0992	Design Start	19-Sep-17*		0d		5 - Day Workweek (w/ Holidays)
63	AE-C1073	Survey/Mapping	19-Sep-17	02-Oct-17	14d	AE-C0990, AE-C0992	7 - Day Workweek
64	AE-C1075	Topographic Survey	19-Sep-17	08-Oct-17	20d	AE-C0990, AE-C0992	7 - Day Workweek
65	AE-C0995	Scoping Charrette	26-Sep-17	26-Sep-17	0d	AE-C0990, AE-C0992	5 - Day Workweek (w/ Holidays)
66	AE-C1000	Draft RFP Prep	26-Sep-17	21-Oct-17	26d	AE-C0990, PROC1030, AE-C	7 - Day Workweek
67	AE-C1070	30% Design (DBB Features)	26-Sep-17	21-Oct-17	26d	AE-C0990, AE-C0995	7 - Day Workweek
68	AE-C1010	Draft Submittal Review	23-Oct-17	31-Oct-17	7d	AE-C1000	5 - Day Workweek (w/ Holidays)
69	AE-C1080	30% Design (DBB Features) Review	23-Oct-17	31-Oct-17	7d	AE-C1070	5 - Day Workweek (w/ Holidays)
70	AE-C1015	Draft RFP Submittal Approved		31-Oct-17	0d	AE-C1010	5 - Day Workweek (w/ Holidays)
71	AE-C1020	Final RFP Prep	01-Nov-17	03-Dec-17	33d	AE-C1010, AE-C1073, AE-C	7 - Day Workweek
72	AE-C1090	90% Design (DBB Features)	01-Nov-17	03-Dec-17	33d	AE-C1080, AE-C1075	7 - Day Workweek
73	AE-C1030	Final Submittal Review	04-Dec-17	12-Dec-17	7d	AE-C1020	5 - Day Workweek (w/ Holidays)
74	AE-C1110	90% Design (DBB Features) Review	04-Dec-17	12-Dec-17	7d	AE-C1090	5 - Day Workweek (w/ Holidays)
75	AE-C1040	Corrected Final RFP Prep	13-Dec-17	09-Jan-18	28d	AE-C1030, PROC1480	7 - Day Workweek
76	AE-C1120	100% Design (DBB Features)	13-Dec-17	09-Jan-18	28d	AE-C1110	7 - Day Workweek
77	AE-C1050	Final RFP Review	10-Jan-18	17-Jan-18	5d	AE-C1040	5 - Day Workweek (w/ Holidays)
78	AE-C1130	100% Design (DBB Features) Review	10-Jan-18	17-Jan-18	5d	AE-C1120	5 - Day Workweek (w/ Holidays)
79	AE-C1058	Decision Point on Buy American Act		17-Jan-18	0d	AE-C1050	5 - Day Workweek (w/ Holidays)
80	AE-C1060	RTA		17-Jan-18	0d	AE-C1130, AE-C1058, AE-C	7 - Day Workweek
81	**466411.40000.03 Construction Procurement: Pre-Qual List**		19-Jul-17	28-Jun-18	238d		
82	**466411.40000.03.01 Pre-Solicitation Phase**		19-Jul-17	08-Feb-18	140d		5 - Day Workweek (w/ Holidays)
83	PROC1030	Prepare DIV 00 Specs 35%	19-Jul-17	25-Jul-17	5d	AE-C0990	5 - Day Workweek (w/ Holidays)
84	PROC1057	Prepare DIV 00 Specs 95%	10-Oct-17	13-Oct-17	4d	AE-C1075	5 - Day Workweek (w/ Holidays)
85	PROC1010	ART Request		31-Oct-17	0d	AE-C1015	5 - Day Workweek (w/ Holidays)
86	PROC1020	Prepare Draft Evaluation Criteria and Draft Source Selection Plan (SSP)	01-Nov-17	16-Nov-17	11d	PROC1030, PROC1010	5 - Day Workweek (w/ Holidays)
87	PROC1040	Review Draft Evaluation Criteria and Draft Source Selection Plan (SSP)	17-Nov-17	22-Nov-17	4d	PROC1020	5 - Day Workweek (w/ Holidays)
88	PROC1050	Finalize Evaluation Criteria and Source Selection Plan (SSP)	24-Nov-17	28-Nov-17	3d	PROC1040	5 - Day Workweek (w/ Holidays)
89	PROC1480	Prepare DIV 00 Specs 100%	13-Dec-17	18-Dec-17	4d	PROC1057, AE-C1030	5 - Day Workweek (w/ Holidays)
90	PROC1070	COR Nomination (if required, see guide)		08-Jan-18	0d	PROC1010	5 - Day Workweek (w/ Holidays)
91	PROC1060	AE Prepares Final Solicitation Document		17-Jan-18	0d	PROC1050, AE-C1060	5 - Day Workweek (w/ Holidays)
92	PROC1080	OC Review	18-Jan-18	22-Jan-18	3d	PROC1050, PROC1060	5 - Day Workweek (w/ Holidays)
93	PROC1090	Contract Compliance Review	23-Jan-18	25-Jan-18	3d	PROC1080	5 - Day Workweek (w/ Holidays)
94	PROC1095	SRB Comment/Review/Resolutions	26-Jan-18	08-Feb-18	10d	PROC1090	5 - Day Workweek (w/ Holidays)
95	PROC1100	RTA (Should be tied to RE DP 2, Currently tied to RE DP 1)		08-Feb-18	0d	PROC1080, PROC1090, AE	5 - Day Workweek (w/ Holidays)
96	**466411.40000.03.02 DB Solicitation & SSEB**		09-Feb-18	07-May-18	61d		
97	DB-S1000	Solicitation Reviews	09-Feb-18	15-Feb-18	5d	PROC1100	5 - Day Workweek (w/ Holidays)
98	DB-S1015	Advertise (Tied to RE DP 1)	22-Mar-18		0d	RE3331	5 - Day Workweek (w/ Holidays)
99	DB-S1020	Advertisement Period	22-Mar-18	20-Apr-18	30d	DB-S1015	7 - Day Workweek
100	DB-S1025	Proposals Received		20-Apr-18	0d	DB-S1020	5 - Day Workweek (w/ Holidays)



#	Activity ID	Activity Name	Start	Finish	Remaining Duration	Predecessors	Calendar
101	DB-S1030	Technical SSEB	23-Apr-18	30-Apr-18	6d	DB-S1020	5 - Day Workweek (w/ Holidays)
102	DB-S1040	Cost SSEB	23-Apr-18	30-Apr-18	6d	DB-S1020	5 - Day Workweek (w/ Holidays)
103	DB-S1050	Prepare Initial SSEB Board Reports	01-May-18	03-May-18	3d	DB-S1040, DB-S1030	5 - Day Workweek (w/ Holidays)
104	DB-S1080	Prepare Final SSEB Report based on discussions/final revised proposals	04-May-18	07-May-18	2d	DB-S1050	5 - Day Workweek (w/ Holidays)
105	466411.40000.03.03	Award Prep & Award	08-May-18	28-Jun-18	37d		5 - Day Workweek (w/ Holidays)
106	AP1000	SSAC Report	08-May-18	16-May-18	7d	DB-S1080	5 - Day Workweek (w/ Holidays)
107	AP1010	SWF CT/Legal Review	17-May-18	23-May-18	5d	AP1000	5 - Day Workweek (w/ Holidays)
108	AP1020	Resolve Comments/Finalize Documents	24-May-18	29-May-18	3d	AP1010	5 - Day Workweek (w/ Holidays)
109	AP1030	Complete Contract Package (Upload to PCF, etc.)	30-May-18	04-Jun-18	4d	AP1020	5 - Day Workweek (w/ Holidays)
110	AP1040	PARC Pre-Award Peer Review	05-Jun-18	18-Jun-18	10d	AP1030	5 - Day Workweek (w/ Holidays)
111	AP1050	PARC Peer Review Comment Resolution Meeting and Revise Documents	19-Jun-18	21-Jun-18	3d	AP1040	5 - Day Workweek (w/ Holidays)
112	AP1060	Receive PARC Concurrence to Award/Congressional Notification	22-Jun-18	28-Jun-18	5d	AP1050	5 - Day Workweek (w/ Holidays)
113	AP1070	Award C-Type Contract		28-Jun-18	0d	AP1060	5 - Day Workweek (w/ Holidays)
114	466411.60000	Construction	28-Jun-18	08-Sep-19	299d		
115	466411.60000.01	DBB Features of Contract	28-Jun-18	08-Sep-19	437d		7 - Day Workweek
116	CONS1000	Contract Award (Should be tied to RE DP 4, Currently tied to DP 2)		28-Jun-18	0d	DES1570, AP1070, RE3333	7 - Day Workweek
117	CONS1010	Bonding and Submittals	29-Jun-18	28-Jul-18	30d	CONS1000	7 - Day Workweek
118	CONS1020	Construction NTP Acknowledged		28-Jul-18	0d	CONS1010	7 - Day Workweek
119	CONS1030	Pre-Con/NTP (Tied to RE DP 5)		13-Sep-18	0d	CONS1010, SC1060, RE334	7 - Day Workweek
120	CONS1040	Construction Start Date	14-Sep-18		0d	CONS1030	7 - Day Workweek
121	CONS1050	Contract	14-Sep-18	10-Jul-19	300d	CONS1040	7 - Day Workweek
122	CONS1060	Construction Completion		10-Jul-19	0d	CONS1050	7 - Day Workweek
123	CONS1070	Physical Closeout		09-Aug-19	0d	CONS1060	7 - Day Workweek
124	CONS1080	Contractor Final Payment		08-Sep-19	0d	CONS1070, CONS1050	7 - Day Workweek
125	466411.60000.02	DB Features of Contract	29-Jun-18	01-Jun-19	231d		
126	DES1000	Design Kick-Off	29-Jun-18	06-Jul-18	8d	CONS1000	7 - Day Workweek
127	DES1010	60% Design	07-Jul-18	31-Jul-18	25d	DES1000	7 - Day Workweek
128	DES1020	60% Submittal Review	01-Aug-18	09-Aug-18	7d	DES1010	5 - Day Workweek (w/ Holidays)
129	DES1030	90% Design	10-Aug-18	24-Aug-18	15d	DES1020	7 - Day Workweek
130	DES1040	90% Submittal Review	27-Aug-18	05-Sep-18	7d	DES1030	5 - Day Workweek (w/ Holidays)
131	DES1050	100% Design	06-Sep-18	15-Sep-18	10d	DES1040	7 - Day Workweek
132	DES1060	100% Backcheck	17-Sep-18	21-Sep-18	5d	DES1050	5 - Day Workweek (w/ Holidays)
133	CON1000	Design Acceptance/Pre-Con	24-Sep-18	24-Sep-18	1d	DES1060	5 - Day Workweek (w/ Holidays)
134	CON1010	Mobilization	25-Sep-18	04-Oct-18	10d	CON1000	7 - Day Workweek
135	CON1020	Construction Start	05-Oct-18		0d	CON1010	7 - Day Workweek
136	CON1100	Construction Duration	05-Oct-18	01-Jun-19	240d	CON1020, SC1070	7 - Day Workweek
137	CON1105	Exercise Options DP		13-Feb-19	0d	CONS1000, RE3366	5 - Day Workweek (w/ Holidays)
138	CON1110	Construction Completion		01-Jun-19	0d	CON1100	7 - Day Workweek



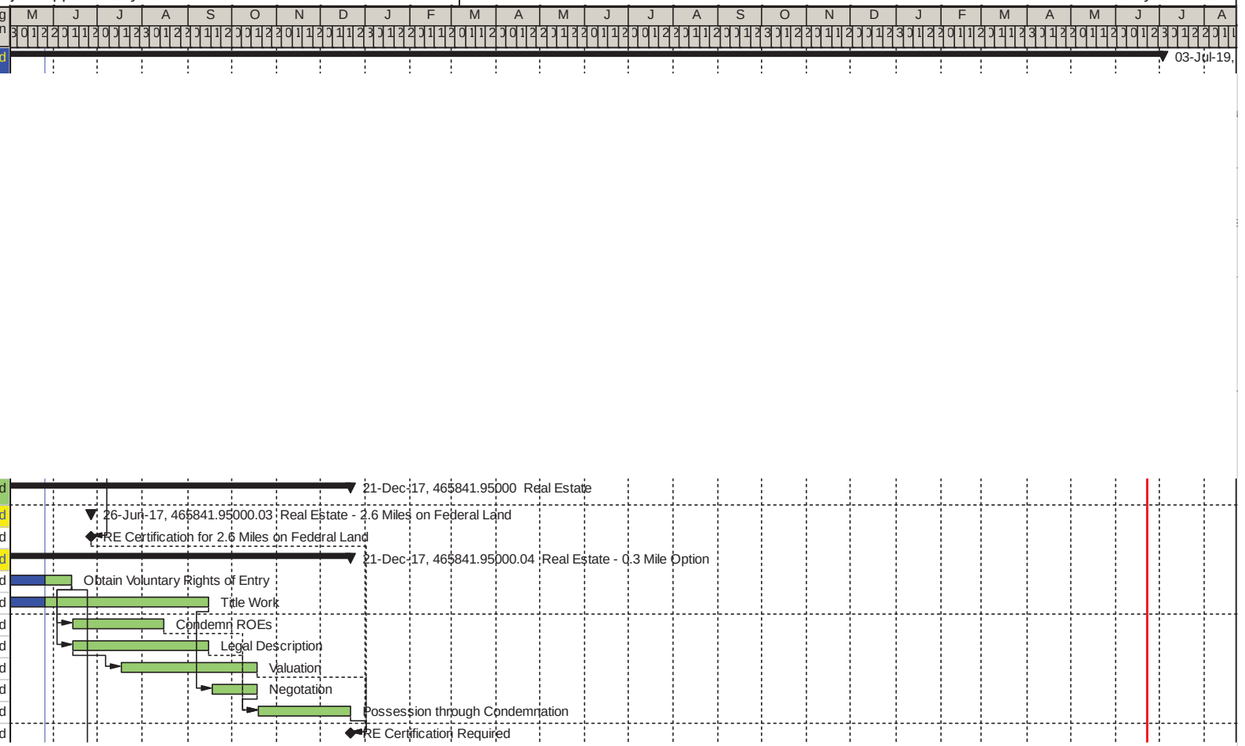
Issuing District * *	M2 - SWF
Requesting Office *	CESWF-ECSO
District Where Work Located * *	M3 - SWG (GALVESTON DISTRICT)
Project Location (State) * *	TX - Texas
Location (Installation/Lake/City) *	Rio Grande
Other Location (Not In Lists)	
Project Type * *	IIS
P2 Project Number or N/A * *	466411
Title * *	RGV Project 2 - 7.9 Miles New Barrier D-B
PM POC Name * *	Villagomez, Enrique Jr CIV USARMY CESWG (US)
Alternate PM POC	
Category * *	Construction
Sub Category * *	General
Contract Action Description *	RGV Project 2, 7.9 Miles of new barrier design build contract to be awarded to one of the firms on the Pre-Qualified list for the Border Wall program.

PM Remarks for CT Assignment	Contracting Officer Linda Eadie
Fiscal Year Action * *	FY2017
Funds Expire * *	No
Initial Est Award Amount * *	$120,000,000.00
Subjective to Availability of Funds * *	Yes
Priority * *	3 - Current FY Regular Program
Sole Source * *	No
Sole Source Justification	NA
Vendor Name * *	NA
Sustainable * *	Yes
Appl Clauses for Sustainable Acq	
Set Aside * *	☐ 8(a) ☐ HZS ☐ SVC ☐ EDWOSB ☐ 8aS ☐ HBMI ☐ SVS ☑ None ☐ HZC ☐ SB ☐ WO
P2 Contract Activity/Work Item *	TBD
CT Labor Charge Code * *	012345
CT Labor Code Amount * *	$20,000.00

Close

Content Type: Item
Created at 5/31/2017 1:45:42 PM by Villagomez, Enrique Jr CIV USARMY CESWG (US)
Last modified at 5/31/2017 2:34:55 PM by Villagomez, Enrique Jr CIV USARMY CESWG (US)

Activity ID	Activity Name	Activity Type	Activity Status	Start	Finish	Original Duration	Remaining Duration
465841	**CBP SWBBS RGV-010**			10-Apr-17 A	03-Jul-19	590.0d	528.0d
465841.95000	**Real Estate**			10-Apr-17 A	21-Dec-17	178.0d	144.0d
465841.95000.03	**Real Estate - 2.6 Miles on Federal Land**			26-Jun-17	26-Jun-17	0.0d	0.0d
RE1020	RE Certification for 2.6 Miles on Federal Land	Finish Milestone	Not Started		26-Jun-17	0.0d	0.0d
465841.95000.04	**Real Estate - 0.3 Mile Option**			10-Apr-17 A	21-Dec-17	178.0d	144.0d
RE1100	Obtain Voluntary Rights of Entry	Task Dependent	In Progress	10-Apr-17 A	13-Jun-17	22.0d	12.0d
RE1120	Title Work	Task Dependent	In Progress	10-Apr-17 A	15-Sep-17	88.0d	78.0d
RE1110	Condemn ROEs	Task Dependent	Not Started	14-Jun-17	15-Aug-17	44.0d	44.0d
RE1130	Legal Description	Task Dependent	Not Started	14-Jun-17	15-Sep-17	66.0d	66.0d
RE1140	Valuation	Task Dependent	Not Started	17-Jul-17	18-Oct-17	66.0d	66.0d
RE1150	Negotation	Task Dependent	Not Started	18-Sep-17	18-Oct-17	22.0d	22.0d
RE1160	Possession through Condemnation	Task Dependent	Not Started	19-Oct-17	21-Dec-17	44.0d	44.0d
RE1170	RE Certification Required	Finish Milestone	Not Started		21-Dec-17	0.0d	0.0d



Actual Work | Critical Remaining Work | Summary
Remaining Work | Milestone

TASK filter: All Activities

Issuing District * *	M2 - SWF
Requesting Office *	CESWF-ECSO
District Where Work Located * *	L4 - SPA (ALBUQUERQUE DISTRICT)
Project Location (State) * *	TX - Texas
Location (Installation/Lake/City) *	El Paso
Other Location (Not In Lists)	
Project Type * *	IIS
P2 Project Number or N/A * *	TBD
Title * *	El Paso 20 Miles VF-PF Replacement D-B
PM POC Name * *	Gronewold, Bernadette L CIV USARMY CESPA (US)
Alternate PM POC	
Category * *	Construction
Sub Category * *	General
Contract Action Description *	El Paso 20 miles Vehicle Fence-Pedestrian Fence Replacement Design-Build contract to be awarded to one of the firms on the Pre-Qualified list for the Border Wall program.

PM Remarks for CT Assignment	Contracting Officer Linda Eadie
Fiscal Year Action * *	FY2017
Funds Expire * *	No
Initial Est Award Amount * *	$150,000,000.00
Subjective to Availability of Funds * *	Yes
Priority * *	3 - Current FY Regular Program
Sole Source * *	No
Sole Source Justification	NA
Vendor Name * *	NA
Sustainable * *	Yes
Appl Clauses for Sustainable Acq	
Set Aside * *	☐ 8(a) ☐ HZS ☐ SVC ☐ EDWOSB ☐ 8aS ☐ HBMI ☐ SVS ☑ None ☐ HZC ☐ SB ☐ WO
P2 Contract Activity/Work Item *	TBD
CT Labor Charge Code * *	012345
CT Labor Code Amount * *	$20,000.00

Close

Content Type: Item
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Last modified at 5/31/2017 3:16:17 PM by Villagomez, Enrique Jr CIV USARMY CESWG (US)

Issuing District * *	M2 - SWF
Requesting Office *	CESWF-ECSO
District Where Work Located * *	L4 - SPA (ALBUQUERQUE DISTRICT)
Project Location (State) * *	TX - Texas
Location (Installation/Lake/City) *	El Paso
Other Location (Not In Lists)	
Project Type * *	IIS
P2 Project Number or N/A * *	TBD
Title * *	El Paso 4.16 Miles Primary Replacement D-B
PM POC Name * *	Gronewold, Bernadette L CIV USARMY CESPA (US)
Alternate PM POC	
Category * *	Construction
Sub Category * *	General
Contract Action Description *	El Paso 4.16 miles primary fence replacement design build seed project for the 8(a) MATOC for the Border Wall program.

PM Remarks for CT Assignment	Contracting Officer Linda Eadie
Fiscal Year Action * *	FY2017
Funds Expire * *	No
Initial Est Award Amount * *	$25,000,000.00
Subjective to Availability of Funds * *	Yes
Priority * *	3 - Current FY Regular Program
Sole Source * *	No
Sole Source Justification	NA
Vendor Name * *	NA
Sustainable * *	Yes
Appl Clauses for Sustainable Acq	
Set Aside * *	☑ 8(a) ☐ HZS ☐ SVC ☐ EDWOSB ☐ 8aS ☐ HBMI ☐ SVS ☐ None ☐ HZC ☐ SB ☐ WO
P2 Contract Activity/Work Item *	TBD
CT Labor Charge Code * *	012345
CT Labor Code Amount * *	$20,000.00

Close

Content Type: Item
Created at 5/31/2017 1:17:59 PM by Villagomez, Enrique Jr CIV USARMY CESWG (US)
Last modified at 5/31/2017 3:08:16 PM by Villagomez, Enrique Jr CIV USARMY CESWG (US)

From: Scott, D Dwain (Dwain) CIV USARMY CESWF (US)
To: Villagomez, Enrique Jr CIV USARMY CESWG (US); Lopez, Robert J CIV USARMY CESWF (US)
Subject: FW: Eagle Pass Bridge - briefing
Date: Wednesday, June 07, 2017 2:17:32 PM

FYSA,

I am downloading these documents but I wanted to pass this on to you guys as well.

Rick, pass this on if you feel anyone from CBP should know this.

Semper Fi

Dwain Scott RLA

[redacted]

ECSO Tactical Infrastructure PgM

USACE Fort Worth Dist.

[redacted]

From: Carota, Jason [redacted]
Sent: Wednesday, June 07, 2017 1:03 PM
To: Scott, D Dwain (Dwain) CIV USARMY CESWF (US) [redacted]
Subject: [Non-DoD Source] FW: Eagle Pass Bridge - briefing

Dwain,

FYI, our hydraulic engineer sent the email below to IBWC. Just wanted to make sure you were in the loop on that.

Thanks.

Jason

From: Saliba, Azeez
Sent: Tuesday, June 06, 2017 10:49 AM
To: Carota, Jason [redacted]

Subject: RE: Eagle Pass Bridge - briefing

Jason

Can you please forward this email to the USACE PMs

Thanks

Azeez Saliba | Project Manager - Surface Water | Michael Baker International
[redacted]5-
[redacted] Blockedwww.mbakerintl.com
<Blockedhttp://www.mbakerintl.com/>

<Blockedhttp://projects.mbakercorp.com/sigimg/MBI-email-sig-block-72dpi.png>
<Blockedhttp://projects.mbakercorp.com/sigimg/MBI-email-sig-Base_72dpi.png>

From: Saliba, Azeez
Sent: Tuesday, June 06, 2017 10:45 AM
To: [redacted]
Cc: Carota, Jason <[redacted]
Subject: Eagle Pass Bridge - briefing

<Blockedhttp://eFTP.mbakerintl.com/img/MBI_small.jpg>

[redacted] has sent you an attachment(s) using Baker eFTP

Message Text:

Hello Dr Unni and Dr Borah

This email is a follow up to the conversation we just had concerning the eagle pass bridge.

The following is a brief history for this project. please use the link below this email to download the documents mentioned below.

* On October 2009, USIBWC approved the eagle pass project documents. (See attached document 1 showing the approval letter and document 2 showing the approved drawings). These documents were a revision of a previously approved bridge design in 2006 (see document 3, USIBWC letter and document 9 for the 2006 drainage report and models).

o These documents show the proposed all weather road and the proposed eagle pass bridge.

o These documents also show the proposed border fences, Known as M2A and M2B.

* The construction of the all weather road and both Fences M2A and M2B started in 2010.

* A new Fence M2C was proposed, connecting M2A and M2B together, and extending the fence further west. The majority of this fence is located outside the Rio Grande Floodplain, except a very small portion where M2C Connects to the already constructed M2A fence. See attached document 4 for the location of the fences M2A, M2B and M2C.

* M2C was approved by USIBWC in September 2010. Document 5 attached provides a copy of the approved Memo.

This project is about the eagle pass bridge that was approved in 2009. See attached document 6 for the proposed bridge. No changes to the bridge are proposed when compared to the approved 2009 documents. However, due to the addition of M2C fence and the few changes to the channel, we propose to submit the following:

* A new drainage Memo analyzing the following:

o 1- The impact of the bridge to the Rio Grande Floodplain, using the Hydraulic Model used for fence M2C (see attached document 7 for the HEC Ras Model and document 8 showing briefing of conversation with Dr Aguirre from USIBWC), and revised using the new topographical survey that will be received soon, specific for this project. Fences M2A,M2B and M2C will be shown as existing conditions. The bridge will be added to the proposed condition, shown as a blocked obstruction.

o Scour analysis, for the bridge using the new survey data. Reference to the 2006 scour analysis will be shown.

after reviewing this email and its documents, please let me know when is the best time to have a quick conference call to discuss the details about the final submittal and approval process.

Thank you and hope to hear from you soon.

information available from this website and therefore assumes neither legal liability nor responsibility for the accuracy, completeness, technical/ scientific quality or usefulness of said documents or information

Levee Wall Overview

Border Infrastructure PMO

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For Planning Purposes Only

Bob Hardbarger

28 April 2017

U.S.ARMY

US Army Corps of Engineers
BUILDING STRONG®

Agenda

- Program Highlights
- Border Infrastructure PMO
- RGV Requirements
- Pilot Project
- Execution Strategy

Program Highlights

- New PMO assigned to SWD
- Leverages existing relationships with CBP
- Utilizes familiar tools and processes used by ECSO
  - FITT
  - AIS
- Administration Priority
- Operational Priority

Border Infrastructure PMO

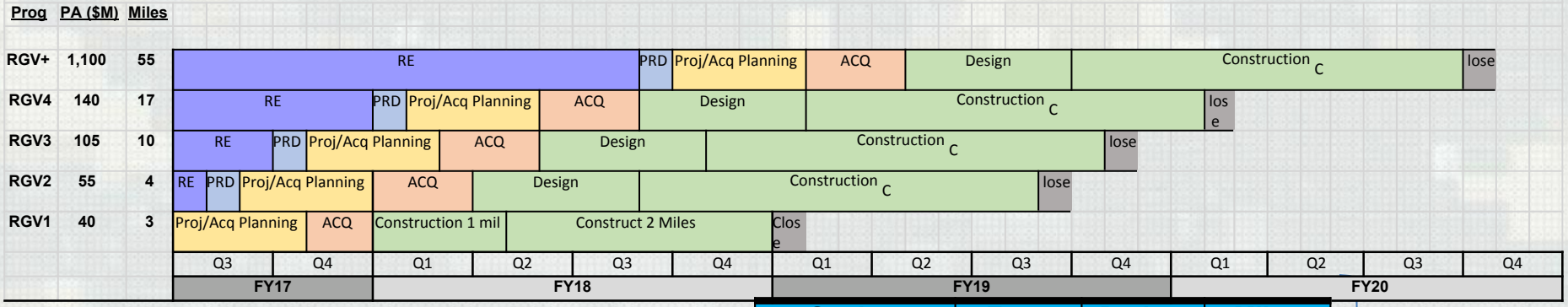
Insert Org Chart

RGV Requirements

Border Infrastructure Program

Update Date: 14 April 2014

RGV Bar Chart



- RGV is Border Patrol priority
- IBWC Levees
- Floodplain challenges

Station	Zone	Project	Miles
Rio Grande City	1/2	RGV-002	3.68
McAllen	6	RGV-003	1.71
McAllen	8	RGV-004	5.47
McAllen	9	RGV-005	1.91
McAllen	9	RGV-001	3.06
McAllen	9	RGV-006	0.83
Weslaco	10	RGV-007	0.69
Weslaco	10	RGV-008	2.46
Weslaco	11	RGV-009	2.24
Weslaco	11	RGV-010	2.93
Weslaco	11	RGV-011	2.44
Weslaco	12	RGV-012	1.01
Weslaco	12	RGV-013	2.09
Weslaco	13	RGV-014	0.37
Weslaco	13	RGV-015	1.91
			32.8

RGV 1-4

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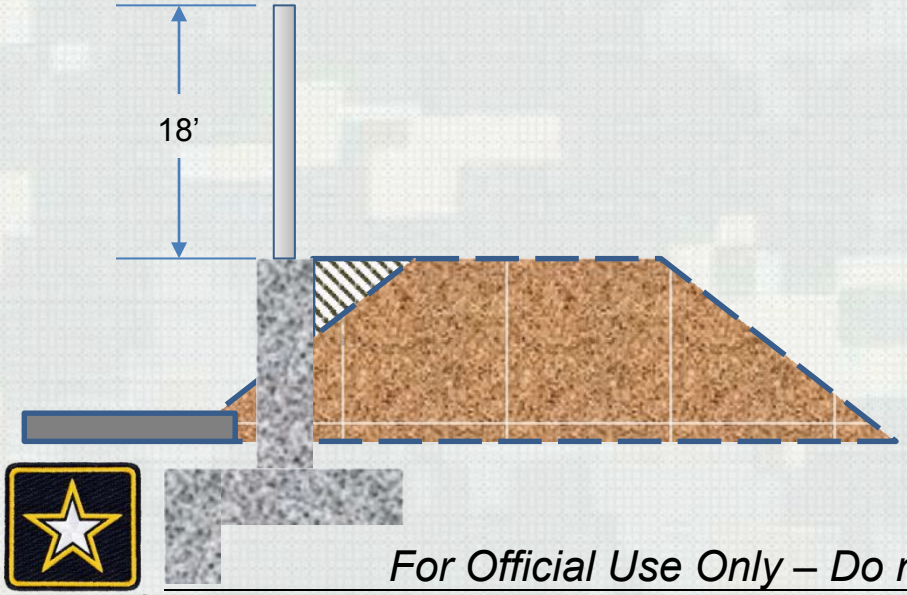
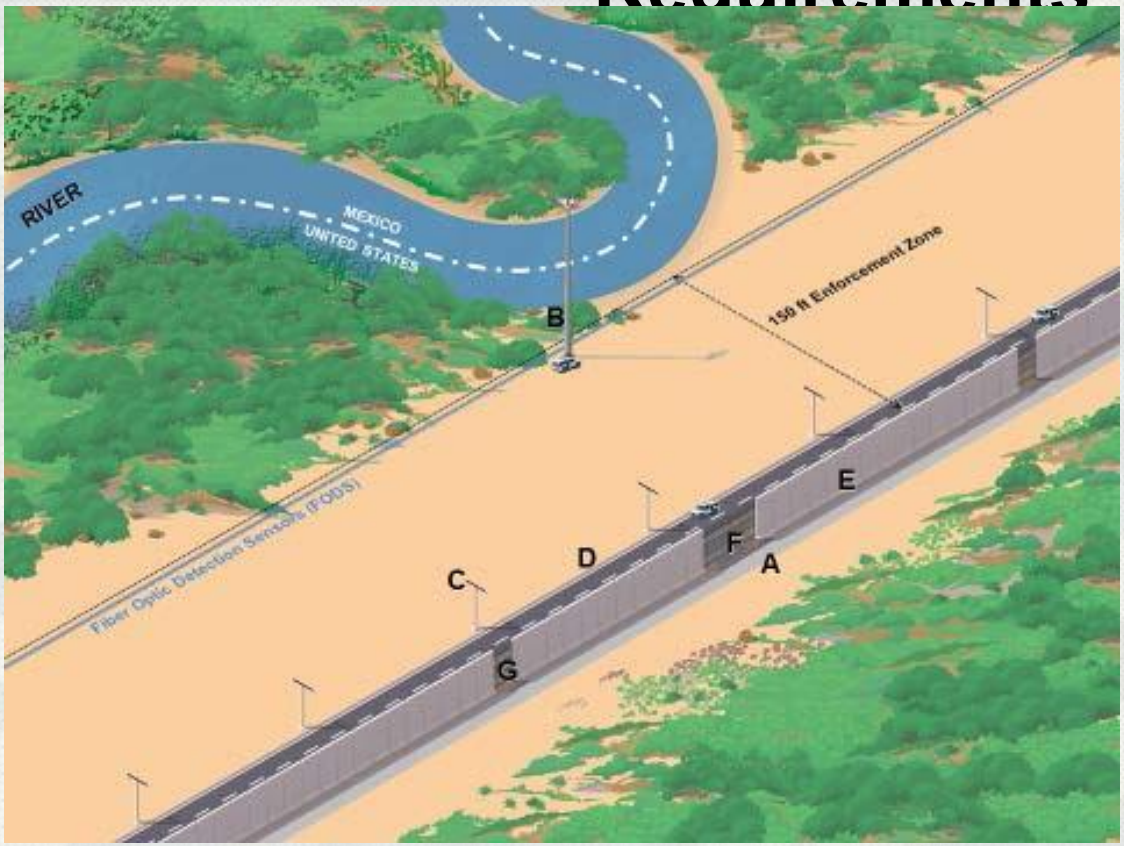
RGV Requirements

Levee Wall Concept

- Flood Wall same height as levee
- 18’ Bollard Fence on top
- USACE Design Standards
- FEMA Certification



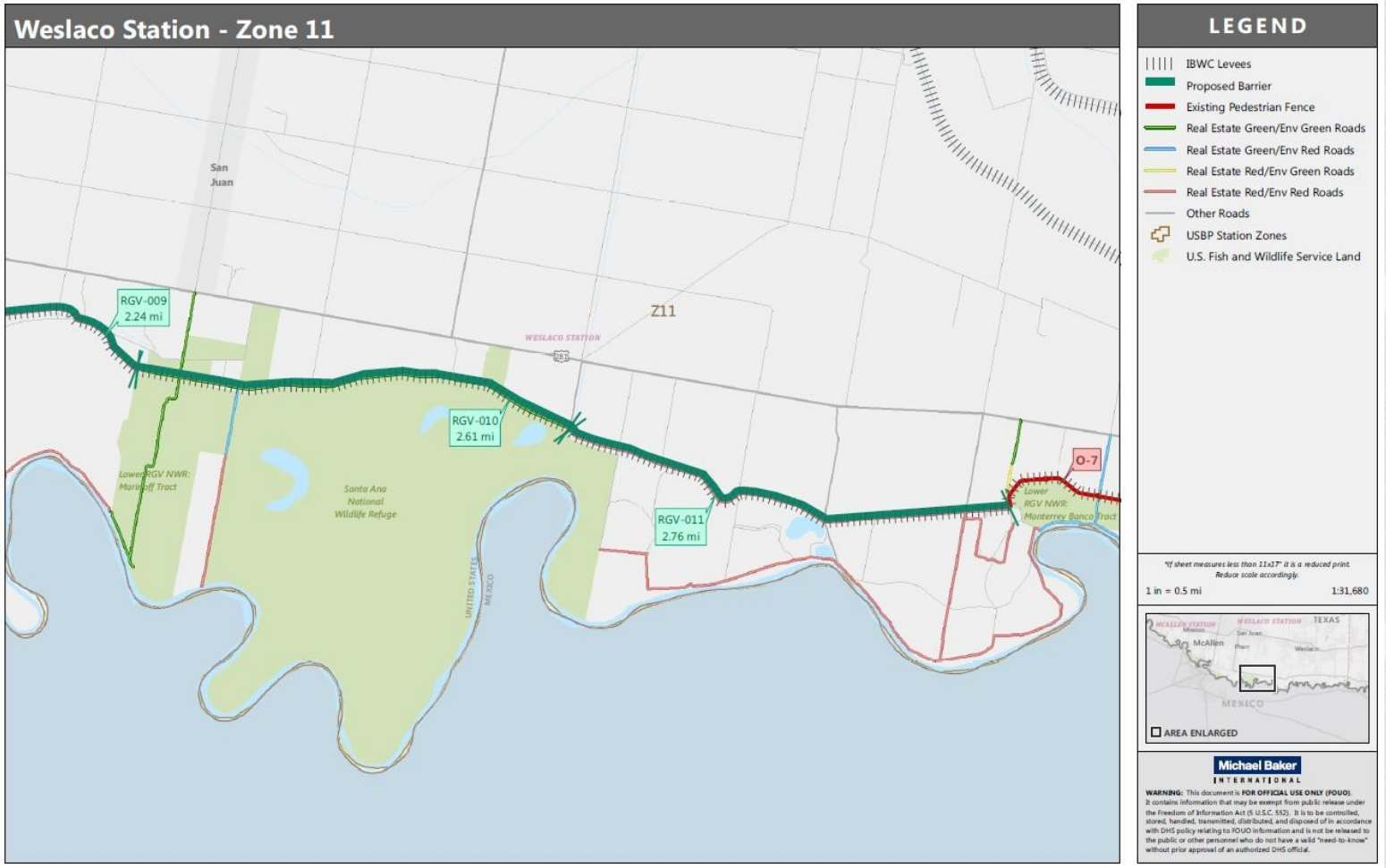
RGV Requirements



Enforcement Zone

- **150’ De-veg and grading**
- **FODS**
- **Lighting**
- **Cameras**
- **Patrol Road (FC-2)**

Pilot Project



RGV-010 2.93 mi

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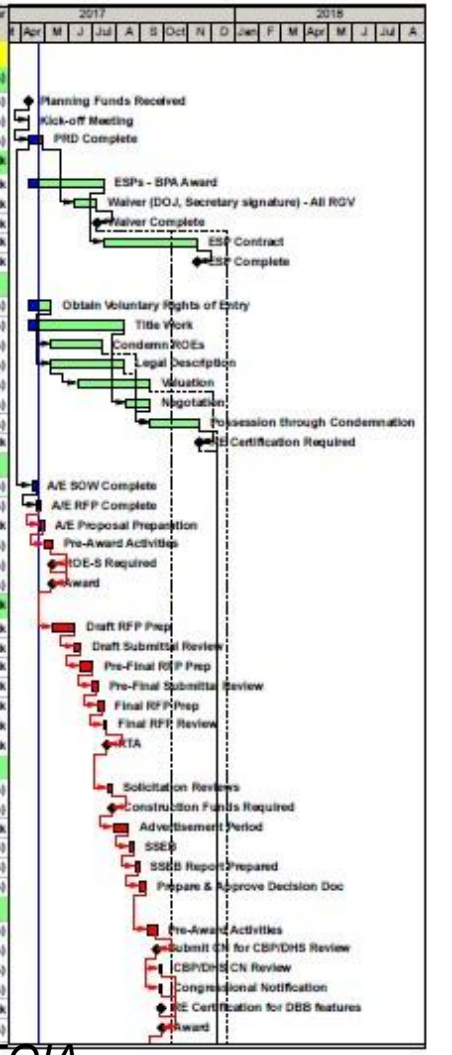
Pilot Project

- **Award in SEP; Construction Start in OCT**
- **AE Task Order (existing IDIQ capacity):**
  - **New Design Standard**
  - **D-B RFP with first mile 100% designed**
- **D-B Contract (existing UR Horizontal MATOC capacity)**
  - **Early construction start**
  - **Concurrent design**
  - **Construction Complete SEP '18**

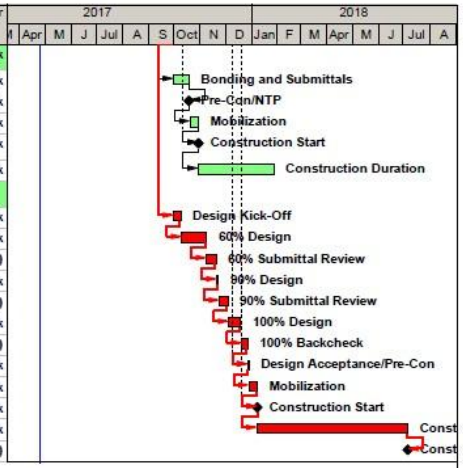
Pilot Project

Activity ID	Activity Name	Start	Finish	Remaining Duration	Calendar
RGV HYBRID	RGV 2.9 mile Levee Wall with Enforcement Zone, Santa Ana Refuge	10-Apr-17 A	06-Jul-18	303d	
RGV HYBRID.01	Planning Phase	10-Apr-17 A	28-Apr-17	5d	5 - Day Workweek (w/ Holidays)
PLAN1000	Planning Funds Received		10-Apr-17 A	0d	5 - Day Workweek (w/ Holidays)
PLAN1010	Kick-off Meeting	10-Apr-17 A	10-Apr-17 A	0d	5 - Day Workweek (w/ Holidays)
PLAN1020	PRD Complete	11-Apr-17 A	28-Apr-17	5d	5 - Day Workweek (w/ Holidays)
RGV HYBRID.02	Environmental	10-Apr-17 A	12-Nov-17	203d	7 - Day Workweek
ENV1010	ESPs - BPA Award	10-Apr-17 A	15-Jul-17	83d	7 - Day Workweek
ENV1000	Waiver (DOJ, Secretary signature) - All RGV	08-Jun-17	07-Jul-17	30d	7 - Day Workweek
ENV1005	Waiver Complete		07-Jul-17	0d	7 - Day Workweek
ENV1020	ESP Contract	16-Jul-17	12-Nov-17	120d	7 - Day Workweek
ENV1030	ESP Complete		12-Nov-17	0d	7 - Day Workweek
RGV HYBRID.03	Real Estate - 0.3 Mile Option	10-Apr-17 A	16-Nov-17	144d	
RE1100	Obtain Voluntary Rights of Entry	10-Apr-17 A	09-May-17	12d	5 - Day Workweek (w/ Holidays)
RE1120	Title Work	10-Apr-17 A	11-Aug-17	78d	5 - Day Workweek (w/ Holidays)
RE1110	Condemn ROEs	10-May-17	12-Jul-17	44d	5 - Day Workweek (w/ Holidays)
RE1130	Legal Description	10-May-17	11-Aug-17	66d	5 - Day Workweek (w/ Holidays)
RE1140	Valuation	12-Jun-17	13-Sep-17	66d	5 - Day Workweek (w/ Holidays)
RE1150	Negotation	14-Aug-17	13-Sep-17	22d	5 - Day Workweek (w/ Holidays)
RE1160	Possession through Condemnation	14-Sep-17	16-Nov-17	44d	5 - Day Workweek (w/ Holidays)
RE1170	RE Certification Required		16-Nov-17	0d	7 - Day Workweek
RGV HYBRID.04	A/E Solicitation & Award	14-Apr-17 A	10-May-17	13d	
AE-S1000	A/E SOW Complete	14-Apr-17 A	20-Apr-17 A	0d	5 - Day Workweek (w/ Holidays)
AE-S1010	A/E RFP Complete	21-Apr-17 A	25-Apr-17	2d	5 - Day Workweek (w/ Holidays)
AE-S1020	A/E Proposal Preparation	26-Apr-17	30-Apr-17	5d	7 - Day Workweek
AE-S1030	Pre-Award Activities	01-May-17	10-May-17	8d	5 - Day Workweek (w/ Holidays)
AE-S1040	ROE-S Required		10-May-17	0d	5 - Day Workweek (w/ Holidays)
AE-S1050	Award		10-May-17	0d	5 - Day Workweek (w/ Holidays)
RGV HYBRID.05	A/E Contract	11-May-17	20-Jul-17	71d	7 - Day Workweek
AE-C1000	Draft RFP Prep	11-May-17	09-Jun-17	30d	7 - Day Workweek
AE-C1010	Draft Submittal Review	10-Jun-17	16-Jun-17	7d	7 - Day Workweek
AE-C1020	Pre-Final RFP Prep	17-Jun-17	01-Jul-17	15d	7 - Day Workweek
AE-C1030	Pre-Final Submittal Review	02-Jul-17	08-Jul-17	7d	7 - Day Workweek
AE-C1040	Final RFP Prep	09-Jul-17	15-Jul-17	7d	7 - Day Workweek
AE-C1050	Final RFP Review	16-Jul-17	20-Jul-17	5d	7 - Day Workweek
AE-C1060	RTA		20-Jul-17	0d	7 - Day Workweek
RGV HYBRID.06	DB Solicitation & SSEB	21-Jul-17	08-Sep-17	35d	
DB-S1000	Solicitation Reviews	21-Jul-17	27-Jul-17	5d	5 - Day Workweek (w/ Holidays)
DB-S1010	Construction Funds Required		27-Jul-17	0d	5 - Day Workweek (w/ Holidays)
DB-S1020	Advertisement Period	28-Jul-17	17-Aug-17	21d	7 - Day Workweek
DB-S1030	SSEB	18-Aug-17	24-Aug-17	5d	5 - Day Workweek (w/ Holidays)
DB-S1040	SSEB Report Prepared	25-Aug-17	31-Aug-17	5d	5 - Day Workweek (w/ Holidays)
DB-S1050	Prepare & Approve Decision Doc	01-Sep-17	08-Sep-17	5d	5 - Day Workweek (w/ Holidays)
RGV HYBRID.07	Award Prep & Award	11-Sep-17	29-Sep-17	15d	
AP1000	Pre-Award Activities	11-Sep-17	22-Sep-17	10d	5 - Day Workweek (w/ Holidays)
AP1002	Submit CN for CBP/DHS Review		22-Sep-17	0d	5 - Day Workweek (w/ Holidays)
AP1005	CBP/DHS CN Review	25-Sep-17	29-Sep-17	5d	5 - Day Workweek (w/ Holidays)
AP1010	Congressional Notification	25-Sep-17	29-Sep-17	5d	5 - Day Workweek (w/ Holidays)
RE1010	RE Certification for DBB features		28-Sep-17*	0d	7 - Day Workweek
AP1020	Award		29-Sep-17	0d	5 - Day Workweek (w/ Holidays)



Pilot Project

Activity ID	Activity Name	Start	Finish	Remaining Duration	Calendar
RGV HYBRID.08	DBB Features of Contract	30-Sep-17	27-Jan-18	120d	7 - Day Workweek
CON1030	Bonding and Submittals	30-Sep-17	19-Oct-17	20d	7 - Day Workweek
CON1040	Pre-Con/NTP		19-Oct-17	0d	7 - Day Workweek
CON1050	Mobilization	20-Oct-17	29-Oct-17	10d	7 - Day Workweek
CON1060	Construction Start	30-Oct-17		0d	7 - Day Workweek
CON1070	Construction Duration	30-Oct-17	27-Jan-18	90d	7 - Day Workweek
RGV HYBRID.09	DB Features of Contract	30-Sep-17	06-Jul-18	191d	
DES1000	Design Kick-Off	30-Sep-17	09-Oct-17	10d	7 - Day Workweek
DES1010	60% Design	10-Oct-17	08-Nov-17	30d	7 - Day Workweek
DES1020	60% Submittal Review	09-Nov-17	20-Nov-17	7d	5 - Day Workweek (w/ Holidays)
DES1030	90% Design	21-Nov-17	23-Nov-17	3d	7 - Day Workweek
DES1040	90% Submittal Review	24-Nov-17	04-Dec-17	7d	5 - Day Workweek (w/ Holidays)
DES1050	100% Design	05-Dec-17	19-Dec-17	15d	7 - Day Workweek
DES1060	100% Backcheck	20-Dec-17	27-Dec-17	5d	5 - Day Workweek (w/ Holidays)
CON1000	Design Acceptance/Pre-Con	28-Dec-17	28-Dec-17	1d	7 - Day Workweek
CON1010	Mobilization	29-Dec-17	07-Jan-18	10d	7 - Day Workweek
CON1020	Construction Start	08-Jan-18		0d	7 - Day Workweek
CON1100	Construction Duration	08-Jan-18	06-Jul-18	180d	7 - Day Workweek
CON1110	Construction Completion		06-Jul-18	0d	5 - Day Workweek (w/ Holidays)



Execution Strategy

- Centralized PgM; De-centralized Project Execution
- PMO Efforts:
  - PgM
  - Contracting – AE and D-B
  - E&C – Technical Support
  - RE
  - Schedulers, PAs
- SWG Support:
  - PM
  - E&C:
    - Technical Lead (Levee Safety Officer)
    - BCOES
    - Submittal Reviews
    - Contract Administration (appointed by SWF PCO)
    - Construction Management

Path Forward

- PDT Assignments
- Battle Rhythm
- Scope/Schedule/Budget Baselines

Copy 1 of 1

Unit: CESWD / CESPD

Loc: Dallas, TX / San Francisco, CA

DTG: 6 June 2017

OPERATIONS ORDER: TF Southwest Border 17-XX (Operation Southwest Border)

Annex R – Strategic Communications

1. Background

Executive Order 13767 Border Security and Immigration Enforcement Improvements, signed 25 January 2017 Trump, calls to immediately plan, design and construct a physical wall along the southern border, using appropriate materials and technology to most effectively achieve complete operational control. U.S. Customs and Border Protection (CBP) requested USACE to assist in the planning, design, and construction of border infrastructure to support CBP in its mission to achieve operational control of the border. This interagency support mission has been accepted by Headquarters USACE and may require support from across the USACE enterprise. The USACE Program Management Office (PMO) Border Infrastructure is located in Fort Worth District, but is a direct report to the Commander, Southwestern Division.

2. Reference

a. Department of Defense Principles of Information – 9 Nov 2001

b. AR 360-1, Army Public Affairs Program

3. Purpose

The purpose of the Strategic Communication Plan is to define communication roles and responsibilities of USACE Commands and Offices, communication protocols and frequency required to deliver all requirements in support of the mission.

4. Project Communications Partners

a. **USACE** – PMO Border Infrastructure and USACE public affairs offices located at: HQ-USACE, SWD, South Pacific Division (SPD), SWF, Galveston District (SWG), Los Angeles District (SPL), Albuquerque District (SPA) and Sacramento District (SPK).

b. **CBP** – PMO Border Patrol Air & Marine and CBP Office of Public Affairs

c. **Other cooperating Federal agency public affairs offices** – Department of Justice, U.S. Section, International Boundary and Water Commission, Bureau of Land Management, U.S. Fish & Wildlife Service, National Park Service, U.S. Department of Agriculture, U.S Forest Service and U.S. Environmental Protection Agency

5. Communication Management

a. Two-way communication and transparency is a cornerstone to success and customer satisfaction. PMO Border Infrastructure is responsible for creating standard operating procedures for communication and a joint communication plan with PMO BPAM.

b. **External communications responsibilities.** As the lead agency, CBP is the public voice of this important national security mission and will take the public communications lead. PMO Border Infrastructure Public Affairs will take the external public communications lead role within USACE. Working with the PMO BPAM, PMO Border Infrastructure Public Affairs will be a public voice whenever USACE has a unique operational lead in a program task. These unique responsibilities are outlined in Appendices 1 to 4 below.

c. **Outreach communication to stakeholders outside the program.** The PMO BPAM and its Outreach & Communications IPT will be responsible for coordinating this effort with PMO Border Infrastructure's support.

d. **USACE communications pathways.** Both vertical and horizontal communication is to be encouraged. Vertical communication originating at PMO Border Infrastructure Public Affairs is through SWD Public Affairs Office (PAO) for all significant actions. SWD PAO is responsible for the communications pathway both to SPD PAO and to HQUSACE PAO. Horizontal communication will flow from PMO Border Infrastructure Public Affairs to HQ-USACE, SWD, SPD, SWF, SWG, SPL, SPA and SPK. Interagency horizontal public affairs communications will flow between PMO Border Infrastructure Public Affairs and PMO BPAM Communications Team.

e. **Unitary voice.** PMO Border Infrastructure and PMO BPAM will work together to ensure that all mission messaging is timely, accurate, consistent, uses the same terminology and works in partnership to respond to all media queries. Communications products, such as Public Affairs Guidance, will be jointly prepared as part of the media planning in advance of all major milestones.

f. **Message discipline.** All USACE staff and contractors should be kept informed of the overall mission. Where possible, the "Corps story" should also be told. At the same time, no employee or contractor should talk to the public or media about the mission. In the field, only the CBP Office of Public Affairs or a Border Patrol agent can speak about the mission to the public or media. Media questions can also be referred to the PMO Border Infrastructure public affairs.

6. **Communications awareness**

a. **Intense media scrutiny.** This is a controversial project generating great public interest. This is also a fast-paced program where unexpected developments can be expected. These communications challenges will be met promptly and communicated up and down the USACE organizational chain and shared with our CBP partners immediately. There is no such thing as too much communication. You cannot partner halfway.

b. **Safety.** Hazards in the border construction zone are a real concern. This may arise from intruders/illegal entrants/smugglers but also from protests. Some protests could target USACE offices distant from the border, particularly those associated with Command, control, and support of this mission. Social media can mobilize opposition protests on short notice and intensify opposition. Security requires rapid communications in the field and up the chain of supervision.

c. **Personal conduct.** USACE employees need to be mindful to protect the image of the Army and to demand professional conduct from ourselves and others. It is a 24/7 concern.

d. **Risk Communications**. Even though CBP provides the public voice for this mission, USACE leaders and key individuals that can be expected to come into contact with the public incidentally while performing work related to this mission should be aware of risk communications and public participation principles.

7. Key Messages

Durable base messaging for use in public contacts. USACE employees and contractors do not speak for the program – CBP does – but the following is suitable in explaining the program and our supporting role whenever asked.

(1) Executive Order 13767, Border Security and Immigration Enforcement Improvements, calls for the immediate planning, design and construction of a physical wall along the southern border, using appropriate materials and technology, to achieve complete operational control of the border. CBP's strategy to operationally control the border includes three components: adequate law enforcement personnel, technology and tactical infrastructure. These three measures together deter, detect, and apprehend unauthorized aliens. Tactical infrastructure includes walls, fencing, roads, lights and cameras.

(2) The USACE has a 20-year history of providing interagency support to Customs and Border Protection, and its predecessor agencies, in executing its border security mission.

(3) CBP is currently defining the requirements for additional tactical infrastructure required to comply with Executive Order 13767 and appropriations by Congress. The U.S. Army Corps of Engineers is prepared to perform planning, design, engineering, real estate acquisition, contract acquisition, and construction as requested by Customs and Border Protection.

Appendix 1: Real Estate Communications Plan

To provide communications guidelines and reporting paths for U.S. Army Corps of Engineers employees and private contractors engaged in real estate activities in support of the Border Infrastructure Program.

General Background

Ref: Key Messages / Durable Base Messaging for use in public contracts in Annex R above.

The Border Infrastructure Program is controversial and has drawn public opposition. Because of the especially sensitive nature of real estate work, all USACE employees and contractors must understand and adopt communications restrictions. All USACE employees and their representatives must conduct themselves in the field in a way that preserves and enhances the Army's reputation with the public. Any activities that may lead to real estate acquisition may be strongly opposed by landowners who do not want to sell and do not want government representatives on their land. The government may have to utilize eminent domain to acquire some tracts. Litigation can be expected.

Adhering to the guidelines and restrictions below will help ensure project success.

Fundamental Communications Principles: RESTRICTIONS

- Officials of the Department of Homeland Security, including U.S. Customs and Border Protection and the Border Patrol, are the sole "face and spokespersons" for the Border Infrastructure Program.
- Do not talk to the media, period. Refer all media queries to DHS/CBP/Border Patrol officials as indicated below.
- Never offer opinions about the Border Infrastructure Program to anybody.
- In the course of your work in the field, discuss your activities only with those with whom you must work. Do not volunteer additional information about the program.

Fundamental Communications Principles: WHAT YOU CAN SAY

If you are asked about the program, you may use the following statement.

"The U.S. Army Corps of Engineers is executing this important national security project for the U.S. Department of Homeland Security along the international border at the direction of the Administration and as funded by Congress. DHS officials within U.S. Customs and Border Protection are the sole spokespersons for this program."

All USACE employees and contractors in the field should carry a "business card" that includes the statement above and provides referral information to others who are authorized to speak.

Communications pathways

PMO BPAM has the lead in outreach communication planning for every major real estate action. PMO Border Infrastructure Real Estate and Public Affairs have a supporting role.

CBP Office of Public Affairs has the public communications lead and full release authority on the real estate effort. Any exceptions will be agreed to in collaboration between the PMO Border Infrastructure and PMO BPAM communications teams.

CBP Office of Public Affairs and Department of Justice Public Affairs will have the lead on all media queries regarding eminent domain, land acquisition and litigation over real estate in this Border Infrastructure Program.

BPAM PMO, Border Patrol and PMO Border Infrastructure Real Estate will collaborate on joint landholder outreach actions, either in one-on-one or larger town hall-style landowner information meetings for this program. Border Infrastructure Public Affairs has a supporting role and help CBP Office of Public Affairs for their media guidance planning. Separate joint CBP/USACE Public Affairs Guidance will be provided prior to engagement with landholders based on the nature of the real estate interest being acquired for the project and the forum in which the landholder will be contacted.

PMO Border Infrastructure Public Affairs is responsible for providing timely advance notice for all major real estate actions to USACE Headquarters as well as border program Division and District Public Affairs Offices (SWD, SPD, SPK, SPL, SPA, SWF and SWG).

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Examples of public interaction: Q&A

Q1: If a member of the media approaches you with questions about the Border Infrastructure Program, what do you say?

A1: USACE and contractor personnel should never speak to the media on behalf of the program, or provide information or opinions. Refer all inquiries to any Customs and Border Protection officer of Border Patrol agent. If none are present, here are alternatives you can provide, have them contact CBPmediarelations@DHS.gov, or 202-344-1780.

Q2: If a private individual approaches you with questions about the Border Infrastructure Program, what do you say?

A2: You are not a spokesman for the program, but you can provide very general information about the overall Border Infrastructure Program outlined in the short, approved statement above. If the individual is necessary to the performance of your task, you can also talk about your specific task. FOR ALL OTHER QUESTIONS, refer the individual to a Customs and Border Protection officer of Border Patrol agent. If none are present, refer them to www.cbp.gov, 877-227-5511.

Q3: If an individual asks you what you are doing in the courthouse today, what do you say?

A3: "I am doing real estate title reviews for a government client." If asked further the contractor or USACE personnel may also disclose that they are working for or on behalf of the U.S. Army Corps of Engineers.

Appendix 2: Acquisition Communications Plan

To inform external stakeholders and the general public with appropriate information regarding how the U.S. Army Corps of Engineers is using its contracting authority to support Department of Homeland Security/Customs and Border Protection mission goals for Executive Order 13767 of 25 Jan 2017: Border Security and Immigration Enforcement Improvements.

General Background

Ref: Key Messages / Durable Base Messaging for use in public contracts in Annex R above.

The U.S. Army Corps of Engineers utilizes a wide variety of tools including military and civilian personnel and private contractors. The Army supports vigorous competition to ensure value for the government. Competition is further heightened by providing opportunities to small business to develop and join the broad base of suppliers that strengthen our nation's economic development. The Army is committed to using small businesses and often leads the federal government in total contract dollars awarded to them each year.

Communications pathways

U.S. Customs and Border Protection (CBP) and the Department of Homeland Security are the leads on all media inquiries about the border infrastructure program. However, certain tasks, such as acquisition, may be delegated within narrow lanes for PMO Border Infrastructure Public affairs to answer. All overall mission questions, including specifics of where and when border infrastructure will be built, remains with CBP Public Affairs. These lanes will be clearly delineated in advance in full collaboration with PMO BPAM.

PMO Border Infrastructure Public Affairs will have the lead in generating, communicating and executing public affairs actions. For the most critical actions, that pathway is through Southwestern Division Public Affairs Office (PAO), which is responsible for SPL and HQ-USACE PAO as appropriate. Horizontal communication will flow from PMO Border Infrastructure Public Affairs to HQ-USACE, SWD, SPD, SWF, SWG, SPL, SPA and SPK. Interagency horizontal public affairs communications will flow between PMO Border Infrastructure Public Affairs and PMO BPAM Communications Team.

Communications Action Milestones

Step-by-step communications actions. USACE acquisition actions may generate media queries.

1. **Advance preparation:**
    a. 10 days before any action, notify PMO BPAM Communications Team and coordinate.
    b. 10 days before, PMO BPAM and PMO Border Infrastructure Communications Teams should delineate clear USACE and CBP Public Affairs lanes for the announcement. These must be clearly understood and with a unity of messaging.
    c. 10 days before announcement, PMO Border Infrastructure public affairs specialist begins working with PMO Border Infrastructure team members to prepare a Public Affairs Guidance (PAG) sheet. This PAG will guide both CBP and USACE communications. It should explain the action. It should emphasize key messages. It should provide a Q&A to address expected questions. This guidance should be shared with SWD PAO Chief. The PAO Chief will share with SPD and HQ-USACE PAOs as appropriate.
    d. PMO Border Infrastructure should consider whether any particular announcement is appropriate as a short news release. This can be an opportunity to tell the Corps story and should only be done in full collaboration with PMO BPAM and written well in advance.
    e. At least two working days in advance, provide PMO BPAM with a copy of the draft announcement text and Public Affairs Guidance sheet. *[Contract awards text will be left incomplete without names and dollar amount.]* PMO Border Infrastructure Public Affairs will notify all PAO chiefs in SWD, SPD, SPK, SPL, SPA, SWF and SWG that the announcement is imminent. Provide PAOs guidance by including CBP media contact information and/or PMO Border Infrastructure Public Affairs contact information.

2. **Announcement day:**
    a. Notify BPAM Communications Team and all PAOs in HQUSACE, SWD, SPD, SPK, SPL, SPA, SWF and SWG the announcement has been made with any additional details as appropriate (such as details of a contract award).
    b. Include the announcement with regular internal communications with USACE staff.
    c. Other internal USACE communication: Command and Program / Project Management notifications will be performed by the PMO Border Infrastructure
    d. Post a news release, if one has been authorized.

Appendix 3: Construction Communications Plan

To provide communications guidelines and reporting paths for U.S. Army Corps of Engineers employees and private contractors engaged in construction and construction-related field activities in support of the Border Infrastructure Program.

General Background

Ref: Key Messages / Durable Base Messaging for use in public contracts in Annex R above.

The Border Infrastructure Program is controversial and has drawn public opposition. Because construction and pre-construction activities take place in public view, all USACE employees and contractors must understand and adopt communications restrictions. All USACE employees and their representatives must conduct themselves in the field in a way that preserves and enhances the Army's reputation with the public.

Construction can include a wide variety of actions including border wall, levee walls, border fence, Border Patrol roads, border access roads, border lights, border gates, border drainage, enforcement zones and other repairs and alterations. Construction-related activities can also include such field work as surveys, geotech drilling, mapping and best practices/environmental monitoring.

Construction activities may occur in close proximity to private property boundaries that may not always be accurate or may not be acknowledged as accurate by landowners in the immediate vicinity of the activity site.

Adhering to the guidelines and restrictions below will help ensure project success.

Fundamental Communications Principles: RESTRICTIONS

- Officials of the Department of Homeland Security, including U.S. Customs and Border Protection and the Border Patrol, are the sole "face and spokespersons" for the Border Infrastructure Program.
- Do not talk to the media, period. Refer all media queries to DHS/CBP/Border Patrol officials as indicated below.
- Never offer opinions about the Border Infrastructure Program to anybody.
- In the course of your work in the field, discuss your activities only with those with whom you must work. Do not volunteer additional information about the program.

Fundamental Communications Principles: WHAT YOU CAN SAY

If you are asked about the program, you may use the following statement.

"The U.S. Army Corps of Engineers is executing this important national security project for the U.S. Department of Homeland Security along the international border at the direction of the Administration and as funded by Congress. DHS officials within U.S. Customs and Border Protection are the sole spokespersons for this program."

All USACE employees and contractors in the field should carry a "business card" that includes the statement above and provides referral information to others who are authorized to speak.

Communications pathways

PMO BPAM has the lead in outreach communication planning for most construction milestones. PMO Border Infrastructure including Public Affairs will have a supporting role.

CBP Office of Public Affairs has the public communications lead and full release authority on the construction mission and many of its supporting components. Any exceptions will be agreed to in collaboration between the PMO Border Infrastructure and PMO BPAM communications teams.

PMO Border Infrastructure Public Affairs is responsible for providing timely advance notice for all major construction and construction-related actions to USACE Headquarters as well as border program Division and District Public Affairs Offices (SWD, SPD, SPK, SPL, SPA, SWF and SWG).

Great care in the field needs to be taken to handle any questions raised by private landowners where these construction activities take place. Those queries should be referred to immediately to appropriate members of the U.S. Army Corps of Engineers oversight team including the area engineer, resident engineer, contracting officer's representative, subject matter expert or other USACE on-site construction supervisor, in addition to the supporting team of construction contractors, architect/engineers and other service contractors.

Communications Actions

The two PMO Communication Teams will initiate planning for every major USACE construction/construction-related (field) action at least 10 days in advance. At this early stage, PMO Border Infrastructure and PMO BPAM will decide which agency is the communications lead.

The communications teams from the two partnering PMOs will jointly prepare communications products, such as Public Affairs Guidance, as part of the planning process before every major construction-related milestone.

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Examples of public interaction: Q&A

Q1: If a member of the media approaches me with questions about the Border Infrastructure Program, what do you say?

A1: USACE and contractor personnel should never speak to the media on behalf of the program, or provide information or opinions. Refer all inquiries to any Customs and Border Protection officer of Border Patrol agent. If none are present, here are alternatives you can provide, have them contact CBPmediarelations@DHS.gov, or 202-344-1780.

Q2: If a private individual approaches me with questions about the Border Infrastructure Program, what do you say?

A2: You are not a spokesman for the program, but you can provide very general information about the overall Border Infrastructure Program outlined in the short, approved statement above. If the individual is necessary to the performance of your task, you can also talk about your specific task. FOR ALL OTHER QUESTIONS, refer the individual to a Customs and Border Protection officer of Border Patrol agent. If none are present, refer them to www.cbp.gov, 877-227-5511.

Q3: If an individual asks you what you are doing at the field construction site today, what do you say?

A3: “I am working in the field on a government project.” If asked further, the contractor or USACE personnel may also disclose that they are working for or on behalf of the U.S. Army Corps of Engineers.

Appendix 4: Public Affairs Communications Protocol

To inform external stakeholders and the general public with appropriate information and transparency regarding how the U.S. Army Corps of Engineers supports Department of Homeland Security/Customs and Border Protection mission goals for Executive Order 13767 of 25 Jan 2017: Border Security and Immigration Enforcement Improvements.

U.S. Customs and Border Protection (CBP) and the Department of Homeland Security are the leads on all media inquiries about the border infrastructure program. However, certain tasks, such as acquisition, real estate and construction, may be delegated within narrow lanes for PMO Border Infrastructure Public Affairs to answer. All overall mission questions, including specifics of where and when border infrastructure will be built, remains with CBP Office of Public Affairs (OPA). These lanes will be clearly delineated in advance in full collaboration with both PMO Border Patrol and Air and Marine (BPAM) and CBP OPA.

General Background:

Ref: Key Messages / Durable Base Messaging for use in public contracts in Annex R above.

Communications pathways:

a. PMO Border Infrastructure Public Affairs will have the USACE lead in handling any public or media queries on the border infrastructure program.
b. It will also communicate directly and often with the PMO BPAM and CBP Office of Public Affairs (OPA). PMO Border Infrastructure Public Affairs will also report on a weekly basis its media contacts to SWD Public Affairs Office (PAO) or report immediately if it is a significant issue. SWD PAO is responsible for communications to SPL PAO and HQ-USACE PAO.
c. PMO Border Infrastructure Public Affairs will also be provided regular access to information streams such as regular PMO Border Infrastructure/PMO BPAM telecoms, access to FITT and to any other database important to be responsive to routine interagency PMO requests and to media queries.
d. PMO Border Infrastructure Public Affairs will support internal efforts to educate all USACE employees and contractors to never to speak to the public or media about the Border Infrastructure Program. They should refer any public or media queries in the field to any Border Patrol Agent, CBP Officer or the CBP Office of Public Affairs. They may also refer any query to PMO Border Infrastructure Public Affairs.
e. Media queries received by any district or division PAO should either be referred to CBP Office of Public Affairs or to PMO Border Infrastructure Public Affairs.

Media query handling step by step

1. Upon receipt of a media query, PMO Border Infrastructure Public Affairs finds out what the reporter seeks. In most cases, the reporter will be referred to CBP OPA at CBPMediaRelations@cbp.dhs.gov. Most questions should not be answered by USACE.

2. Immediately send a summary of the query to the PMO BPAM Communications Team and to the individual CBP OPA representative assigned as liaison to this team for communications awareness.
3. Report the query to SWD PAO (immediately, if it is particularly important; or later as part of routine weekly reporting of media contacts). As needed, share the summary with PMO Border Infrastructure if there is a need for communications awareness.
4. If the query fits into the narrow lane to be answered by USACE, share any verbal response in a summary shared after the fact to PMO BPAM Communications Team and CBP OPA liaison. If it is a written response, share it in advance with these interagency counterparts and SWD PAO to ensure common messaging, consistency and accuracy.
5. Communicate consistently as appropriate with PMO Border Infrastructure or PMO BPAM. The two PMOs should never be surprised.

Special case queries

In some cases, the CBP OPA may reach back to PMO Border Infrastructure Public Affairs for assistance. This may require gathering information to feed to CBP OPA for release. Or it may be collaboratively agreed that PMO Border Infrastructure Public Affairs be the release authority for the information. If it is the latter, share the intended response in advance with the PMO Border Infrastructure, SWD PAO, PMO BPAM Communications Team and CBP OPA liaison to ensure common messaging, consistency and accuracy.

Any requests for speakers at public events/meetings should be referred to PMO BPAM.

FOIA assistance

PMO Border Infrastructure Public Affairs may be called upon by any USACE Office of Counsel to act as a liaison to help gather necessary responses or assist in finding requested information.

When possible, PMO Border Infrastructure Public Affairs should share new USACE FOIA requests with appropriate PMO BPAM contacts. Our interagency front-line counterparts appreciate this communications awareness.

FOIA requests to CBP/DHS, many of which can be from the media, may require assistance from PMO Border Infrastructure Public Affairs. Common messaging and facts for public release is enhanced when communications sharing is proactive by PMO BPAM and PMO Border Infrastructure Communications Teams.

Real Estate Notes

Few tracts, unimproved land. Condemned along river during PF225, proposed is outside that alignment. Will likely have to acquire from wall to river.
Wester portion is unimproved land, Eastern end cuts through improved tracts. Some acreage covered by PF225 condemnation actions, no possession of tracts. Steep bluff.
Many improved tracts, steep cliff, some overlap with PF225 condemnation actions, no possession
Many improved tracts, steep cliff, some overlap with PF225 condemnation actions, no possession
Few tracts. Some overlay with PF225, unimproved land. In floodplain
60' swath condemned for PF225, have possession of most swath tracts. Will require adjustment if 150' enforcement zone is required, will have to push for possession of access. May have to re-file on staging area that expired. Deep in floodplain
60' swath condemned for PF225, have possession of most swath tracts. Will require adjustment if 150' enforcement zone is required, will have to push for possession of access. May have to re-file on staging area that expired. Deep in floodplain
12+ tracts, including State of Texas and NGOs. Most land unimproved or farmland. There are structures on the wet side of levee. Eastern .05 mile has direct impact to structures (homes/buildings) and access to improved tracts on the river, endpoint should be shifted west, adjacent segment (RGV-005) should absorb adjustment
Nice RV park, many retirees live there permanently. Western half of segment will impacts upward of 100 homeowners. East half is F&W property, suggest breaking portion into it's own project, if so it would be categorized least challenging
West 1.4 miles 'easy', few tracts, unimproved and/or farm land. Middle/East end of project complex, new Hwy design changes existing levee alignment.
few tracts, unimproved and farmland. Hwy project could complicate Northern .05 mile of project., otherwise this segment would qualify as least challenging
only one tract but the levee acts as dam/embankment for local water supply.
over 2 dozen tracts abut southside of levee. Many homes within 150', also have some deeper toward river.
over 2 dozen tracts abut southside of levee. Many homes within 150', also have some deeper toward river. Church and cemetery directly impacted by enforcement zone. May be possible to build 1 mile without major impact (Phar Inter Bridge to Doffin Rd)
2.6 miles on F&W, eastern .3 mile one private owner (same owner has .8 mile on RGV-011)

Dozen tracts adjacent to levee (many under same ownership), mostly unimproved and farm land. Some improvements within enforcement zone toward middle of segment (appear to be barns from aerial ,need to ground truth). Homes and sand pit south of the levee & enforcement zone on east end, will have to provide access or buyout/relocate
less than 3 tracts if you stop segment short of bridge, F&W has large tract. Improvements near bridge where levee peters out, assume no wall in that location.
half dozen tract adjacent to levee, unimproved & farmland.
Dozen tracts adjacent to levee (many under same ownership), mostly unimproved and farm land. Swampy area in middle of segment abuts levee.
4 tracts, all in same ownership (B &P Bridge). Challenge comes with fitting wall into existing bridge improvements.
Dozen tracts, 5 ownerships. Farm land, project will impact irrigation canal and lake intake/outlet works

Execution_Phase	Sector	Fence_ID	Project_ID	Group
FY17	RGV	RGV1-02	RGV-002	3
FY17	RGV	RGV1-03	RGV-002	3
FY17	RGV	RGV2-01	RGV-002	3
FY17	RGV	RGV2-02	RGV-002	3
FY17	RGV	RGV2-03	RGV-002	3
FY17	RGV	RGV6-02	RGV-003	3
FY17	RGV	RGV6-03	RGV-003	3
FY17	RGV	RGV8-01	RGV-004	3
FY17	RGV	RGV9-01	RGV-005	4
FY17	RGV	RGV9-05	RGV-001	4
FY17	RGV	RGV9-03b	RGV-006	4
FY17	RGV	RGV10-01	RGV-007	4
FY17	RGV	RGV10-02	RGV-008	4
FY17	RGV	RGV11-01	RGV-009	4
FY17	RGV	RGV11-02a	RGV-010	1

FY17	RGV	RGV11-02b	RGV-011	2
FY17	RGV	RGV11-03	RGV-012	2
FY17	RGV	RGV12-01	RGV-012	2
FY17	RGV	RGV12-02	RGV-013	2
FY17	RGV	RGV13-01	RGV-014	2
FY17	RGV	RGV13-02	RGV-015	2

Fence_Program	Length_Miles	Description	Real Estate Prelim Assessment
PF Primary	1.07097269	O-1	Challenging
PF Primary	0.53726088	O-1	Most Challenging
PF Primary	0.64571417	O-1	Most Challenging
PF Primary	0.12585485	O-1	Most Challenging
PF Primary	1.28647572	O-1	Least Challenging
PF Primary	0.2607274	O-3	Least Challenging
PF Primary	1.44769016	O-3	Least Challenging
PF Primary	5.46771932		Challenging
PF Primary	1.91247337		Most Challenging
PF Primary	3.05814489		Challenging
PF Primary	0.8311097		Challenging
PF Primary	0.69005037		Most Challenging
PF Primary	2.45775268		Most Challenging
PF Primary	2.23564526		Most Challenging
PF Primary	2.93081802		Least Challenging

PF Primary	2.43704001	Challenging
PF Primary	0.56173262	Least Challenging
PF Primary	0.4531135	Least Challenging
PF Primary	2.09173204	Least Challenging
PF Primary	0.37474392	Challenging
PF Primary	1.90903501	Challenging

sort	Program	Sector	FY17	FY18	Unbuildable	Unconstrained
1	PF Primary	RGV	32.8	47.4	0.5	44.9
4	PF Replacement	RGV				1.0

Execution_F	Sector	Fence_ID	Project_ID	Fence_Prog	Length_Mile	Lat_Start
FY18	RGV	RGV1-01		PF Primary	15.48966	26.410668
FY18	RGV	RGV2-04		PF Primary	2.5852704	26.394724
FY18	RGV	RGV3-01		PF Primary	9.2551247	26.399141
FY18	RGV	RGV3-02		PF Primary	2.3625654	26.371646
FY18	RGV	RGV4-01		PF Primary	1.4601658	26.37428
FY18	RGV	RGV4-02		PF Primary	0.2343015	26.358296
FY18	RGV	RGV4-03		PF Primary	3.1801876	26.356659
FY18	RGV	RGV4-04		PF Primary	4.8881741	26.291002
FY18	RGV	RGV5-01		PF Primary	7.9139303	26.259041

Long_Start	Lat_End	Long_End	Description	Comments	State	Station
-99.04551	26.545824	-99.17112		PV Capable	TX	RGC
-98.99853	26.399141	-98.95945		PV Capable	TX	RGC
-98.95945	26.356943	-98.89574		PV Capable	TX	RGC
-98.84818	26.37428	-98.81249	O-2	PV Capable	TX	RGC
-98.81249	26.360514	-98.79571	O-2	PV Capable	TX	RGC
-98.79024	26.357382	-98.78667	O-2	PV Capable	TX	RGC
-98.7868	26.331922	-98.7575	O-2	PV Capable	TX	RGC
-98.69867	26.331922	-98.7575		PV Capable	TX	RGC
-98.58586	26.290997	-98.69866		PV Capable	TX	RGC

Execution_F	Sector	Fence_ID	Project_ID	Fence_Prog	Length_Mile	Lat_Start	Long_Start
Unconstrair	RGV	RGV13-03		PF Primary	2.1872848	26.071419	-97.89152
Unconstrair	RGV	RGV14-01		PF Primary	2.5975415	26.083693	-97.86171
Unconstrair	RGV	RGV14-02		PF Primary	0.0592871	26.055118	-97.85173
Unconstrair	RGV	RGV14-03		PF Primary	0.666865	26.062545	-97.82103
Unconstrair	RGV	RGV14-04		PF Primary	0.8341735	26.058204	-97.81299
Unconstrair	RGV	RGV14-05		PF Primary	2.2855376	26.065073	-97.80598
Unconstrair	RGV	RGV14-06		PF Primary	0.6524218	26.049258	-97.76259
Unconstrair	RGV	RGV15-01		PF Primary	0.3967066	26.047062	-97.7537
Unconstrair	RGV	RGV15-02		PF Primary	0.161821	26.036738	-97.73696
Unconstrair	RGV	RGV15-03		PF Primary	1.2764468	26.040825	-97.68865
Unconstrair	RGV	RGV16-01		PF Primary	0.5373204	26.006103	-97.6176
Unconstrair	RGV	RGV16-02		PF Primary	2.2618311	26.006103	-97.6176
Unconstrair	RGV	RGV17-01		PF Primary	1.5955415	25.983703	-97.61008
Unconstrair	RGV	RGV17-02		PF Primary	0.7163122	25.956274	-97.57161
Unconstrair	RGV	RGV18-02		PF Primary	0.7988749	25.920396	-97.52851
Unconstrair	RGV	RGV18-03		PF Primary	1.3353701	25.910512	-97.53304
Unconstrair	RGV	RGV19-02		PF Primary	0.2345073	25.894174	-97.50399
Unconstrair	RGV	RGV19-04		PF Primary	0.2645341	25.898616	-97.49687
Unconstrair	RGV	RGV19-05		PF Replace	0.5938092	25.891725	-97.4904
Unconstrair	RGV	RGV19-06		PF Primary	0.068084	25.891737	-97.49043
Unconstrair	RGV	RGV19-07		PF Primary	0.0593466	25.891868	-97.48992
Unconstrair	RGV	RGV19-08		PF Replace	0.3733493	25.89185	-97.48992
Unconstrair	RGV	RGV20-01		PF Primary	0.370895	25.887615	-97.47652
Unconstrair	RGV	RGV21-01		PF Primary	16.935723	25.91391	-97.37306
Unconstrair	RGV	RGV6-01		PF Primary	1.9295492	26.259043	-98.58584
Unconstrair	RGV	RGV6-04		PF Primary	4.8647221	26.248127	-98.55364
Unconstrair	RGV	RGV7-01		PF Primary	1.8336889	26.232353	-98.48259

Lat_End	Long_End	Description	Comments	State	Station
26.083691	-97.86171		PV Capable	TX	WSL
26.055118	-97.85173		PV Capable	TX	HRL
26.055258	-97.85082		PV Capable	TX	HRL
26.058204	-97.81299		PV Capable	TX	HRL
26.065073	-97.80598		PV Capable	TX	HRL
26.049092	-97.77565		PV Capable	TX	HRL
26.047062	-97.7537		PV Capable	TX	HRL
26.042953	-97.75673		PV Capable	TX	HRL
26.035825	-97.7346		PV Capable	TX	HRL
26.038939	-97.67211		PV Capable	TX	HRL
26.007226	-97.62533		PV Capable	TX	HRL
25.983703	-97.61008		PV Capable	TX	HRL
25.968098	-97.60002		PV Capable	TX	BRP
25.949807	-97.56392		PV Capable	TX	BRP
25.910545	-97.53308		PV Capable	TX	BRP
25.895948	-97.52225		PV Capable	TX	BRP
25.892092	-97.5058		PV Capable	TX	BRP
25.895401	-97.49542		PV Capable	TX	BRP
25.895401	-97.49542		PV Capable	TX	BRP
25.892655	-97.49002		PV Capable	TX	BRP
25.892687	-97.48962		PV Capable	TX	BRP
25.890371	-97.48429		PV Capable	TX	BRP
25.88968	-97.47114		PV Capable	TX	FTB
25.960676	-97.13476		PV Capable	TX	FTB
26.242163	-98.56641		PV Capable	TX	MCS
26.232355	-98.48259		PV Capable	TX	MCS
26.231775	-98.45377		PV Capable	TX	MCS

Execution_F	Sector	Fence_ID	Project_ID	Fence_Prog	Length_Mile	Lat_Start
FY17	RGV	RGV10-01	RGV-007	PF Primary	0.6900504	26.090208
FY17	RGV	RGV10-02	RGV-008	PF Primary	2.4577527	26.092142
FY17	RGV	RGV1-02	RGV-002	PF Primary	1.0709727	26.410668
FY17	RGV	RGV1-03	RGV-002	PF Primary	0.5372609	26.414809
FY17	RGV	RGV11-01	RGV-009	PF Primary	2.2356453	26.085897
FY17	RGV	RGV11-02a	RGV-010	PF Primary	2.930818	26.082729
FY17	RGV	RGV11-02b	RGV-011	PF Primary	2.43704	26.076984
FY17	RGV	RGV11-03	RGV-012	PF Primary	0.5617326	26.073385
FY17	RGV	RGV12-01	RGV-012	PF Primary	0.4531135	26.065941
FY17	RGV	RGV12-02	RGV-013	PF Primary	2.091732	26.076612
FY17	RGV	RGV13-01	RGV-014	PF Primary	0.3747439	26.063385
FY17	RGV	RGV13-02	RGV-015	PF Primary	1.909035	26.066203
FY17	RGV	RGV2-01	RGV-002	PF Primary	0.6457142	26.410777
FY17	RGV	RGV2-02	RGV-002	PF Primary	0.1258549	26.403239
FY17	RGV	RGV2-03	RGV-002	PF Primary	1.2864757	26.401248
FY17	RGV	RGV6-02	RGV-003	PF Primary	0.2607274	26.242163
FY17	RGV	RGV6-03	RGV-003	PF Primary	1.4476902	26.239591
FY17	RGV	RGV8-01	RGV-004	PF Primary	5.4677193	26.191734
FY17	RGV	RGV9-01	RGV-005	PF Primary	1.9124734	26.168086
FY17	RGV	RGV9-03b	RGV-006	PF Primary	0.8311097	26.139488
FY17	RGV	RGV9-05	RGV-001	PF Primary	3.0581449	26.135078
FY18	RGV	RGV1-01		PF Primary	15.48966	26.410668
FY18	RGV	RGV2-04		PF Primary	2.5852704	26.394724
FY18	RGV	RGV3-01		PF Primary	9.2551247	26.399141
FY18	RGV	RGV3-02		PF Primary	2.3625654	26.371646
FY18	RGV	RGV4-01		PF Primary	1.4601658	26.37428
FY18	RGV	RGV4-02		PF Primary	0.2343015	26.358296
FY18	RGV	RGV4-03		PF Primary	3.1801876	26.356659
FY18	RGV	RGV4-04		PF Primary	4.8881741	26.291002
FY18	RGV	RGV5-01		PF Primary	7.9139303	26.259041
Unbuildable	RGV	RGV9-03a		PF Primary	0.535317	26.146434
Unconstrair	RGV	RGV13-03		PF Primary	2.1872848	26.071419
Unconstrair	RGV	RGV14-01		PF Primary	2.5975415	26.083693
Unconstrair	RGV	RGV14-02		PF Primary	0.0592871	26.055118
Unconstrair	RGV	RGV14-03		PF Primary	0.666865	26.062545
Unconstrair	RGV	RGV14-04		PF Primary	0.8341735	26.058204
Unconstrair	RGV	RGV14-05		PF Primary	2.2855376	26.065073
Unconstrair	RGV	RGV14-06		PF Primary	0.6524218	26.049258
Unconstrair	RGV	RGV15-01		PF Primary	0.3967066	26.047062
Unconstrair	RGV	RGV15-02		PF Primary	0.161821	26.036738
Unconstrair	RGV	RGV15-03		PF Primary	1.2764468	26.040825
Unconstrair	RGV	RGV16-01		PF Primary	0.5373204	26.006103
Unconstrair	RGV	RGV16-02		PF Primary	2.2618311	26.006103
Unconstrair	RGV	RGV17-01		PF Primary	1.5955415	25.983703
Unconstrair	RGV	RGV17-02		PF Primary	0.7163122	25.956274
Unconstrair	RGV	RGV18-02		PF Primary	0.7988749	25.920396

UnconstrairRGV	RGV18-03	PF Primary	1.3353701	25.910512
UnconstrairRGV	RGV19-02	PF Primary	0.2345073	25.894174
UnconstrairRGV	RGV19-04	PF Primary	0.2645341	25.898616
UnconstrairRGV	RGV19-05	PF Replace	0.5938092	25.891725
UnconstrairRGV	RGV19-06	PF Primary	0.068084	25.891737
UnconstrairRGV	RGV19-07	PF Primary	0.0593466	25.891868
UnconstrairRGV	RGV19-08	PF Replace	0.3733493	25.89185
UnconstrairRGV	RGV20-01	PF Primary	0.370895	25.887615
UnconstrairRGV	RGV21-01	PF Primary	16.935723	25.91391
UnconstrairRGV	RGV6-01	PF Primary	1.9295492	26.259043
UnconstrairRGV	RGV6-04	PF Primary	4.8647221	26.248127
UnconstrairRGV	RGV7-01	PF Primary	1.8336889	26.232353

Long_Start	Lat_End	Long_End	Description	Comments	State	Station
-98.24914	26.092142	-98.23961		PV Capable	TX	WSL
-98.23961	26.085897	-98.20186		PV Capable	TX	WSL
-99.04551	26.414252	-99.03319	O-1	PV Capable	TX	RGC
-99.03165	26.410777	-99.02457	O-1	PV Capable	TX	RGC
-98.20186	26.082739	-98.16893		PV Capable	TX	WSL
-98.16893	26.076984	-98.12435		PV Capable	TX	WSL
-98.12435	26.072802	-98.08809		PV Capable	TX	WSL
-98.076	26.065941	-98.07458		PV Capable	TX	WSL
-98.07458	26.067068	-98.06829			TX	WSL
-98.02149	26.076115	-97.99049		PV Capable	TX	WSL
-97.9524	26.062986	-97.94667		PV Capable	TX	WSL
-97.91349	26.071419	-97.89152		PV Capable	TX	WSL
-99.02457	26.404467	-99.01807	O-1	PV Capable	TX	RGC
-99.01665	26.401478	-99.01633	O-1	PV Capable	TX	RGC
-99.01622	26.394433	-98.99862	O-1	PV Capable	TX	RGC
-98.56641	26.23992	-98.56394	O-3	PV Capable	TX	MCS
-98.56379	26.248127	-98.55364	O-3	PV Capable	TX	MCS
-98.40691	26.168086	-98.33414		PV Capable	TX	MCS
-98.33414	26.143798	-98.32215		PV Capable	TX	MCS
-98.25755	26.128566	-98.2617		PV Capable	TX	MCS
-98.29793	26.146434	-98.25505			TX	MCS
-99.04551	26.545824	-99.17112		PV Capable	TX	RGC
-98.99853	26.399141	-98.95945		PV Capable	TX	RGC
-98.95945	26.356943	-98.89574		PV Capable	TX	RGC
-98.84818	26.37428	-98.81249	O-2	PV Capable	TX	RGC
-98.81249	26.360514	-98.79571	O-2	PV Capable	TX	RGC
-98.79024	26.357382	-98.78667	O-2	PV Capable	TX	RGC
-98.7868	26.331922	-98.7575	O-2	PV Capable	TX	RGC
-98.69867	26.331922	-98.7575		PV Capable	TX	RGC
-98.58586	26.290997	-98.69866		PV Capable	TX	RGC
-98.25505	26.139488	-98.25755		PV Capable	TX	MCS
-97.89152	26.083691	-97.86171		PV Capable	TX	WSL
-97.86171	26.055118	-97.85173		PV Capable	TX	HRL
-97.85173	26.055258	-97.85082		PV Capable	TX	HRL
-97.82103	26.058204	-97.81299		PV Capable	TX	HRL
-97.81299	26.065073	-97.80598		PV Capable	TX	HRL
-97.80598	26.049092	-97.77565		PV Capable	TX	HRL
-97.76259	26.047062	-97.7537		PV Capable	TX	HRL
-97.7537	26.042953	-97.75673		PV Capable	TX	HRL
-97.73696	26.035825	-97.7346		PV Capable	TX	HRL
-97.68865	26.038939	-97.67211		PV Capable	TX	HRL
-97.6176	26.007226	-97.62533		PV Capable	TX	HRL
-97.6176	25.983703	-97.61008		PV Capable	TX	HRL
-97.61008	25.968098	-97.60002		PV Capable	TX	BRP
-97.57161	25.949807	-97.56392		PV Capable	TX	BRP
-97.52851	25.910545	-97.53308		PV Capable	TX	BRP

-97.53304	25.895948	-97.52225	PV Capable	TX	BRP
-97.50399	25.892092	-97.5058	PV Capable	TX	BRP
-97.49687	25.895401	-97.49542	PV Capable	TX	BRP
-97.4904	25.895401	-97.49542	PV Capable	TX	BRP
-97.49043	25.892655	-97.49002	PV Capable	TX	BRP
-97.48992	25.892687	-97.48962	PV Capable	TX	BRP
-97.48992	25.890371	-97.48429	PV Capable	TX	BRP
-97.47652	25.88968	-97.47114	PV Capable	TX	FTB
-97.37306	25.960676	-97.13476	PV Capable	TX	FTB
-98.58584	26.242163	-98.56641	PV Capable	TX	MCS
-98.55364	26.232355	-98.48259	PV Capable	TX	MCS
-98.48259	26.231775	-98.45377	PV Capable	TX	MCS

FY17 REQUIREMENTS

FY17 Expiring Funds - $11.5M (PMO, Planning, Design, Real Estate Support)
FY17 New Appropriation - $640M
FY17 Construction Award - $40M (3 to 6 miles in RGV)
Executing Districts - SWF & SWG

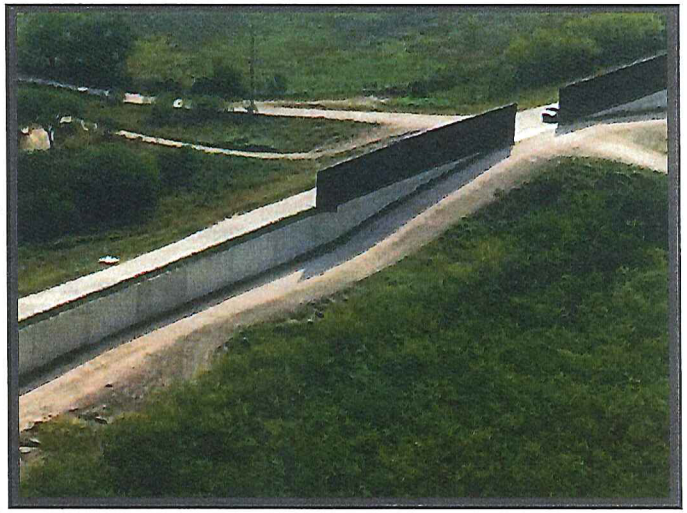
- Rio Grande Valley (RGV) - Award 4-6 miles of Levee Wall/Fence by 30 SEP 17.
- San Diego (SDC) - Support CBP Prototype award and construction oversight with SPL, SWF, & ERDC.

FY18 REQUIREMENTS

FY18 New Appropriation - $1.7B
RGV - $1.1B
EL Paso (ELP) - $600M (could include Tucson Sector)
Executing Districts - SWF, SWG, SPL, SPA

- RGV - Award subsequent 4-6 mile portions of Levee Wall/Fence every quarter till initial 28 miles is complete with FY17 appropriation
- RGV - Remaining FY17 new appropriation funds to construct additional barriers in RGV.
- RGV - Develop acquisition and real estate timelines for execution of remaining RGV requirements for construction awards utilizing FY18 appropriation. No hard dates or commitments communicated yet.
- SDC—Award 14 Miles primary and 14 miles secondary fence/wall in San Diego
- ELP - Position RE & ACQ to execute program as quickly as possible after FY18 appropriation received. No hard dates or commitments communicated yet.

- All FY17 and FY18 projects completed at the end of FY2020



Existing Levee Wall in Hildalgo County, TX RGV