



**DEPARTMENT OF THE ARMY**  
U.S. ARMY CORPS OF ENGINEERS, SOUTH ATLANTIC DIVISION  
60 FORSYTH STREET SW, ROOM 10M15  
ATLANTA, GA 30303-8801

CESAD-RBT

24 March 2020

MEMORANDUM FOR Commander, Jacksonville District, 701 San Marco Boulevard,  
Jacksonville, Florida 32207-8175

SUBJECT: Approval of the Review Plan for the Central Everglades Planning Project (CEPP)  
South Contract 1 L-67A Structures Spoil Mound Removal and L-67C Gapping, Miami-Dade  
County, Florida

1. References:

a. Memorandum, CESAJ-EN-Q, 2020.03.03, subject as above.

b. Engineering Circular (EC) 1165-2-217, Water Resources Policies and Authorities  
Review Policy for Civil Works, 20 February 2018.

2. The Review Plan (RP) for the CEPP South L-67A Structures Spoil Mound Removal and L-67C Gapping Project and reference 1.a. noted above have been reviewed by South Atlantic Division (SAD). SAD concurs with the conclusion that a Type II Independent External Peer Review (IEPR) of the subject project is not required. The RP is hereby approved in accordance with reference 1.b.

3. SAD concurs with the District's RP recommendation that outlines the requirements for District Quality Control (DQC), Agency Technical Review (ATR), and Biddability, Constructability, Operability, Environmental and Sustainability (BCOES) Review. The Safety Assurance Review/Type II Independent External Peer Review is not required. Documents to be reviewed include the Final Plans and Specifications and the Design Documentation Report (DDR).

4. The South Atlantic Division Office shall be the Review Management Organization for this project.

5. The District should take steps to post the approved RP to its website and provide a link to CESAD-RBT. Before posting to the website, the names of Corps/Army employees should be removed. Subsequent significant changes to this RP, such as scope or level of review changes, should they become necessary, will require new written approval from this office.

6. The SAD point of contact is [REDACTED], CESAD-RBT, [REDACTED]

Encl

[REDACTED]  
Major General, USA  
Commanding



DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS, JACKSONVILLE DISTRICT  
701 SAN MARCO BOULEVARD  
JACKSONVILLE, FLORIDA 32207-8175

CESAJ-EN-Q

MEMORANDUM FOR Commander, South Atlantic Division (CESAD-RBT), 60 Forsyth Street SW, Room 10M15, Atlanta, GA 30303

SUBJECT: Approval of Review Plan for the Central Everglades Planning Project (CEPP) South Contract 1 L-67A Structures, Spoil Mound Removal and L-67C Gapping, Miami-Dade County, Florida

1. References:

- a. Engineering Circular (EC) 1165-2-217, Review Policy for Civil Works, 20 Feb 18.
- b. Flood Control Act of 1946, Public Law 79-526, 24 Jul 46.

2. I hereby request approval of the enclosed Review Plan for the CEPP South Contract 1 L-67A Structures, Spoil Mound Removal and L-67C Gapping, Miami-Dade County, Florida and concurrence with the conclusion that a Type II Independent External Peer Review (IEPR) of the subject project is not required. The recommendation not to perform a Type II IEPR is based on the EC 1165-2-217 Risk Informed Decision Process as presented in the Review Plan. The Review Plan complies with applicable policy, provides for Agency Technical Review, and has been coordinated with the SAD. It is my understanding that non-substantive changes to this Review Plan, should they become necessary, are authorized by SAD.

3. The district will post the approved Review Plan to its website and provide a link to the SAD for its use. Names of Corps/Army employees will be withheld from the posted version, in accordance with guidance.

4. Point of contact is [REDACTED], Engineering Review Manager, [REDACTED] of [REDACTED].

Encl

[REDACTED]  
Colonel, EN  
Commanding

# **PROJECT REVIEW PLAN**

**For**

## **Preconstruction, Engineering and Design Phase Implementation Documents**

**For**

### **C&SF CEPP - South Contract 1 - L-67A Structures, Spoil Mound Removal, and L-67C Gapping Miami Dade County, FL**

**Project P2 number: 370939**

**Jacksonville District**

**February 2020**



**US Army Corps  
of Engineers**®

THE INFORMATION CONTAINED IN THIS REVIEW PLAN IS DISTRIBUTED SOLELY FOR THE PURPOSE OF PREDISSEMINATION PEER REVIEW UNDER APPLICABLE INFORMATION QUALITY GUIDELINES. IT HAS NOT BEEN FORMALLY DISSEMINATED BY THE U.S. ARMY CORPS OF ENGINEERS, JACKSONVILLE DISTRICT. IT DOES NOT REPRESENT AND SHOULD NOT BE CONSTRUED TO REPRESENT ANY AGENCY DETERMINATION OR POLICY.

**TABLE OF CONTENTS**

**1. PURPOSE AND REQUIREMENTS .....4**

- a. Purpose .....4
- b. References .....4
- c. Review Plan Approval and Updates .....4
- d. Review Management Organization .....5

**2. PROJECT INFORMATION .....5**

- a. Project Location .....5
- b. Project Background .....5
- c. Project Description .....5
- d. In-Kind-Contributions by Project Sponsor .....6
- e. Civil Works Cost Engineering Mandatory Center of Expertise Review and Certification ..6

**3. DISTRICT QUALITY CONTROL .....7**

- a. Requirements .....7
- b. Documentation .....7
- c. DQC Schedule and Estimated Cost .....7

**4. AGENCY TECHNICAL REVIEW .....8**

- a. Risk Informed Decision on Appropriate Level of Review .....8
- b. Agency Technical Review Scope .....8
- c. ATR Disciplines .....8
- d. Statement of Technical Review .....9
- e. ATR Schedule and Estimated Cost .....9

**5. BIDDABILITY, CONSTRUCTABILITY, OPERABILITY, ENVIRONMENTAL, AND SUSTAINABILITY REVIEW .....10**

**6. INDEPENDENT EXTERNAL PEER REVIEW .....11**

- a. General .....11
- b. Type I Independent External Peer Review Determination .....11
- c. Type II Independent External Peer Review Determination .....11

**7. POLICY AND LEGAL COMPLIANCE .....13**

**8. MODEL CERTIFICATION AND APPROVAL .....14**

**9. PROJECT DELIVERY TEAM DISCIPLINES .....15**

**10. BUDGET AND SCHEDULE .....16**

- a. Project Milestones .....16
- b. ATR Cost .....16

**11. REVIEW PLAN POINTS OF CONTACT .....17**

**ATTACHMENT A: APPROVED REVIEW PLAN REVISIONS .....18**

**ATTACHMENT B: PARTIAL LIST OF ACRONYMS AND ABBREVIATIONS .....19**  
**ATTACHMENT C: ATR REPORT OUTLINE .....21**

## **1. PURPOSE AND REQUIREMENTS**

### **a. Purpose**

This Review Plan (RP) for the Central and Southern Florida (C&SF) Central Everglades Planning Project (CEPP) South Contract 1 L-67A Structures, Spoil Mound Removal, and L-67C Gapping, (P2 # 370939), Miami-Dade County, Florida, will help ensure a quality engineering project is developed by the U.S. Army Corps of Engineers (USACE) in accordance with EC 1165-2-217, "Review Policy for Civil Works." As part of the Project Management Plan, this RP establishes an accountable, comprehensive, life-cycle review strategy for Civil Works products lays out a value added process and describes the scope of review for the current phase of work. The EC outlines five general levels of review: District Quality Control/Quality Assurance (DQC), Agency Technical Review (ATR), Biddability, Constructability, Operability, Environmental and Sustainability (BCOES) Review, Independent External Peer Review (IEPR), and Policy and Legal Compliance Review. This RP will be provided to the Project Delivery Team (PDT) and the DQC, ATR, and BCOES Teams. The technical review efforts addressed in this RP, DQC and ATR, are to augment and complement the policy review processes. The District Chief of Engineering has assessed that the life safety risk of this project is insignificant; therefore, a Type II IEPR/Safety Assurance Review (SAR) will not be required, see Paragraph 6. Any levels of review not performed in accordance with EC 1165-2-217 will require documentation in the RP of the risk-informed decision not to undertake that level of review.

### **b. References**

- (1). EC 1165-2-217, Review Policy for Civil Works, 20 February 2018
- (2). ER 1110-1-12, Quality Management, 31 March 2011
- (3). ER 415-1-11, Biddability, Constructability, Operability, Environmental and Sustainability (BCOES) Review, 1 January 2013
- (4). ER 1110-2-1150, Engineering and Design for Civil Works Projects, 31 August 1999
- (5). ER 1110-2-1156, Safety of Dams – Policy and Procedure, 31 March 2014
- (6). ER 1110-2-1302, Civil Works Cost Engineering, 30 June 2016
- (7). Central Everglades Planning Project, Final Integrated Project Implementation Report and EIS, December 2014

### **c. Review Plan Approval and Updates**

The South Atlantic Division (SAD) Commander is responsible for approving this RP. The Commander's approval reflects vertical team input as to the appropriate scope and level of review. Like the PMP, the RP is a living document and may change as the project progresses. The Jacksonville District (SAJ) is responsible for keeping the RP up to date. Minor changes to the RP since the last SAD Commander approval will be documented in Attachment A. Significant changes to the RP (such as changes to the scope and/or level of review) should be re-approved by the SAD Commander following the process used for initially approving the plan. The latest version of the RP, along with the Commander's approval memorandum, will be posted on the SAJ's webpage. The latest RP will be provided to SAD.

#### **d. Review Management Organization**

SAD is designated as the Review Management Organization (RMO). The RMO, in cooperation with the vertical team, will approve the ATR team members. SAJ will assist SAD with management of the ATR and development of the charge to reviewers.

### **2. PROJECT INFORMATION**

#### **a. Project Location**

The study area for the Central Everglades Planning Project (CEPP) encompasses the Northern Estuaries (St. Lucie River and Indian River Lagoon and the Caloosahatchee River and Estuary), Lake Okeechobee, a portion of the Everglades Agricultural Area (EAA), the Water Conservation Areas (WCAs), Everglades National Park (ENP), the Southern Estuaries (Florida Bay and Biscayne Bay), and the Lower East Coast (LEC). This RP covers the area on the L-67 A channel located west of Krome Avenue, State Road 997, and north of SW 8th Street, US 4, in Miami Dade County, Florida. The project is just west of Francis S. Taylor Wildlife Management Area, WCA 3B.

#### **b. Project Background**

The CEPP is encompassed in the Comprehensive Everglades Restoration Plan (CERP), which was approved by Congress as a framework for the restoration of the natural system under Section 601 of the Water Resources Development Act of 2000 (WRDA 2000). The CERP, as documented in the 1999 C&SF Project Comprehensive Review Study Final Integrated Feasibility Report and Programmatic Environmental Impact Statement (Yellow Book), consists of 68 different components. The purpose of the CERP is to modify structural and operational components of the C&SF Project to achieve restoration of the Everglades and the south Florida ecosystem, while providing for other water-related needs such as urban and agricultural water supply and flood protection. The 68 components identified in the Yellow Book will work together to benefit the ecological structure and function of more than 2.4 million acres of the south Florida ecosystem by improving and/or restoring the proper quantity, quality, timing and distribution of water in the natural system. The CERP will also address other concerns such as urban and agricultural water supply and maintain existing levels of service for flood protection in those areas served by the project. The CERP components were originally planned for implementation over an approximate 40-year period. The CERP system is designed to re-directing current flows that are currently discharged to the Atlantic Ocean and Gulf of Mexico, to a more restored flow of water that is distributed throughout the system similar to pre-drainage conditions.

#### **c. Project Description**

This RP will cover the design process for the proposed features including:

- New L-67A structures S-631, S-632, and S-633 detailed as three (3) new gated flood control culverts in the L-67A levee, each with total design capacity of 500 cubic feet per second (cfs) to convey water from WCA 3A to WCA 3B.
- Corresponding L-67C spoil mound removal, designated L-67C (6000 ft. and 3000 ft.) gaps and incidental (3000 ft.) agricultural canal, and ditch filling.

The Jacksonville District USACE will provide professional design services including project management, field investigations, H&H modeling, and phased design process from Conceptual Design level through Corrected Final/Ready to Advertise (RTA) design documents suitable for solicitation of a construction contractor. Proposed design features for the new S-631, S-632, and S-633 based on similar layouts of the constructed S-152, inclusive of walkway, telemetry, and staff gauges.

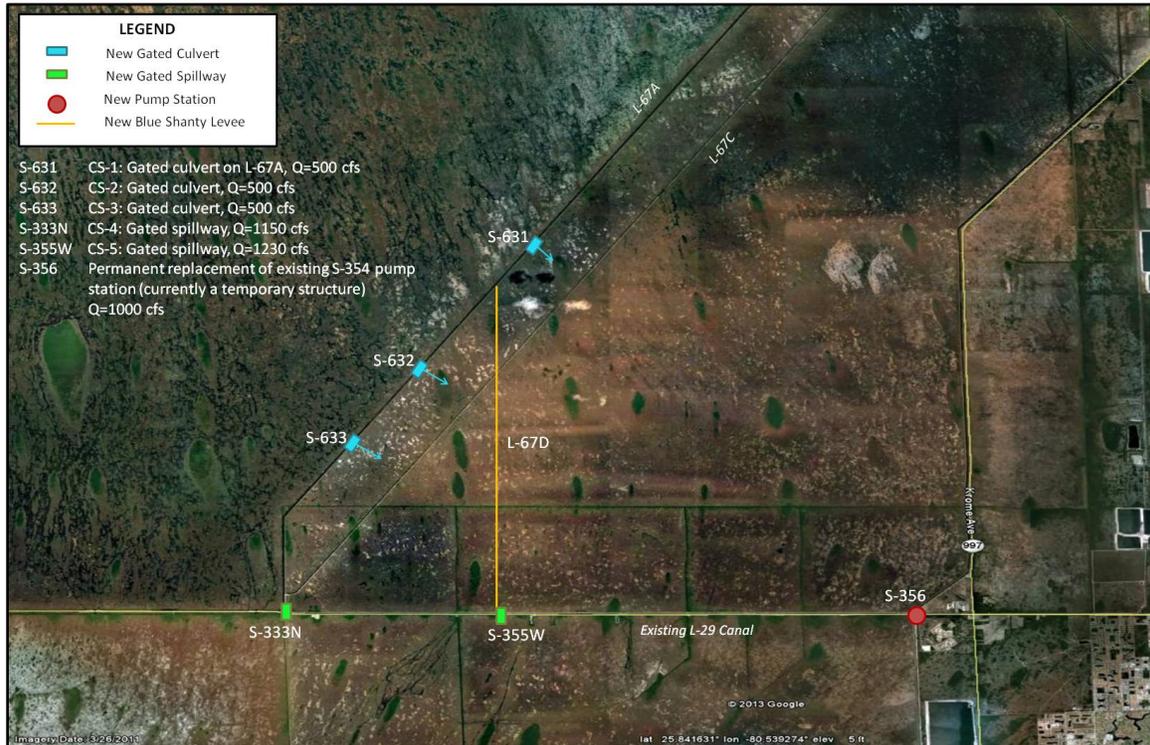


Figure 1: Location Map

**d. In-Kind-Contributions by Project Sponsor**

The South Florida Water Management District (SFWMD) is the non-Federal sponsor for the project. The SFWMD will provide products and analyses as in-kind services, which are subject to DQC, ATR, policy, and legal compliance, and BCOES reviews. These products are included within this Review Plan.

**e. Civil Works Cost Engineering Mandatory Center of Expertise Review and Certification**

The cost related documents associated with this contract do not require external peer review or certification. Therefore, no additional review requirements will be executed by the Cost Engineering Mandatory Center of Expertise (MCX) for the implementation documents addressed by this RP.

### 3. DISTRICT QUALITY CONTROL

#### a. Requirements

All implementation documents (including supporting data, analyses, environmental compliance documents, etc.) shall undergo a DQC review. The SFWMD shall prepare and submit for Government review and approval, a Quality Control Plan that includes a design delivery schedule and the quality control team. SAJ shall perform Quality Assurance Review (QAR) in accordance with DQC activities for engineering products stipulated in ER 110-1-12 Engineering & Design Quality Management and EC 1165-2-209. DQC will be performed on the Plans & Specifications (P&S) and DDR in accordance with CESAJ Engineering Division Quality Management System (EN QMS). The EN QMS defines DQC as the sum of two (2) reviews, Discipline Quality Control Review (DQCR) and Product Quality Control Review (PQCR).

See Attachment 1, Table 5 for the DQC Lead, reviewers, and reviewers' disciplines.

#### b. Documentation

DQCRs occur during the design development process and are carried out as a routine management practice by each discipline. Checklists are utilized by each discipline to facilitate the review and to document the DQCR review comments. Certification of the DQCR is signed by each Branch Chief certifying that all design analyses and products have been completed in accordance with the EN QMS process prior to release from the Branch.

The PQCR shall ensure consistency and effective coordination across all disciplines and shall assure the overall coherence and integrity of the products. Review comments and responses for this review will be documented in DrChecks™. The PQCR shall be QC certified by the Engineering Technical Lead (ETL), all applicable Section and Branch Chiefs, and the Engineering Division Chief. This PQCR certification signifies that all DQCR Certifications are complete, as well as the PQCR.

#### c. DQC Schedule and Estimated Cost

Although DQC is always seamless, the following milestone reviews are scheduled in Table 1. The cost for each DQC is approximately \$30,000 - \$45,000.

Project Phase/Submittal	Review Start Date	Review End Date
DQC Preliminary (30%) P&S Review – SAJ design	January 2020	February 2020
DQC Intermediate (60%) P&S Review – SAJ design	March 2020	April 2020
DQC Final P&S Review – SAJ design	May 2020	June 2020

Table 1 DQC Schedule

#### **4. AGENCY TECHNICAL REVIEW**

##### **a. Risk Informed Decision on Appropriate Level of Review**

All implementation documents (including supporting data, analyses, reports, environmental compliance documents, water control manuals, etc.) shall undergo ATR in accordance EC 1165-2-217. ATR reviews will occur seamlessly, including early involvement of the ATR team for validation of key design decisions, and at the scheduled milestones as shown in Table 2.

##### **b. Agency Technical Review Scope**

The ATR Team will review the Final (100%) Plans & Specs along with the Final (100%) DDR for all project components of the L-67 A and C, to include those products designed by the USACE SAJ staff and SFWMD. All ATR reviews and tentative time-frames are outlined in Table 2.

ATR is undertaken to "ensure the quality and credibility of the government's scientific information" in accordance with EC 1165-2-217 and ER 1110-1-12.

ATR comments will be documented in the DrChecks<sup>sm</sup> model review documentation database. DrChecks<sup>sm</sup> is a module in the ProjNet<sup>sm</sup> suite of tools developed and operated at ERDC-CERL ([www.projnet.org](http://www.projnet.org)). At the conclusion of ATR, the ATR Team Leader will prepare an ATR Review Report that summarizes the review. An outline for an ATR Review Report is in Attachment C. The report will include at a minimum the Charge to Reviewers, ATR Certification Form from EC 1165-2-217, and the DrChecks<sup>sm</sup> printout of the comment resolution.

##### **c. ATR Disciplines**

As stipulated in ER 1110-1-12, ATR members will be sought from the following sources: regional technical specialists (RTS); subject matter experts (SME) certified in CERCAP; senior level experts from other districts; Center of Expertise staff; experts from other USACE commands; contractors; academic or other technical experts; or a combination of the above. The ATR Team will be comprised of the following disciplines; knowledge, skills and abilities; and experience levels.

**ATR Lead** - The ATR lead should be a senior professional with experience in ecosystem restoration, flood risk management projects, and conducting ATR. The lead should also have the necessary skills and experience to lead a virtual team through the ATR process. ATR Team Leader may be a co-duty to one of the review disciplines. A minimum of 5 years of related project design/construction experience is required.

**Civil Engineer** - The team reviewer should be a registered professional engineer with experience in civil/site work that includes earthwork operations, site drainage, embankments and utilities relocations. A minimum of 10 years of related project design/construction experience is required.

**Geotechnical Engineer** - The team reviewer should be a registered professional engineer with experience in design and analysis of hydraulic control structures and channels, to support the development of the Plans and Specifications. A minimum of 10 years of related project

design/construction experience in required.

**Hydraulic Engineer** – The team reviewer should be a registered professional with experience in earth and hydraulic control structures to support the development of the Plans and Specifications. A minimum of 5 years of related project design/construction experience is required.

**Mechanical Engineer** – The team reviewer should be a registered professional with experience in mechanical gates for culvert design to support the development of the Plans and Specifications. A minimum of 5 years of related project design/construction experience is required.

**Structural Engineer** - The team reviewer should be a registered professional with experience in hydraulic control structures. A minimum of 10 years of related project design/construction experience is required.

**d. Statement of Technical Review Report**

At the conclusion of each ATR effort, the ATR team will prepare a review report with a completion and certification memo. The report will be prepared in accordance with EC 1165-2-217.

**e. ATR Schedule and Estimated Cost**

Although ATR is always seamless, the preliminary ATR milestone schedule is listed in Table 2.

<b>Project Phase/Submittal</b>	<b>Review Start Date</b>	<b>Review End Date</b>
ATR Final P&S and DDR Review – SAJ design	May 2020	June 2020

Table 2 ATR Schedule

## **5. BIDDABILITY, CONSTRUCTABILITY, OPERABILITY, ENVIRONMENTAL, AND SUSTAINABILITY REVIEW**

The value of a BCOES review is based on minimizing problems during the construction phase through effective checks performed by knowledgeable, experienced personnel prior to advertising for a contract. BCOES review requirements must be emphasized throughout the planning and design processes for all programs and projects, including during planning and design. This will help to ensure that the government's contract requirements are clear, executable, and readily understandable by private sector bidders or proposers. It will also help ensure that the construction may be done efficiently and in an environmentally sound manner, and that the construction activities and projects are sufficiently sustainable. Effective BCOES reviews of design and contract documents will reduce risks of cost and time growth, unnecessary changes and claims, as well as support safe, efficient, sustainable operations and maintenance by the facility users and maintenance organization after construction is complete. A BCOES Review will be conducted for this project. Requirements and further details are stipulated in ER 1110-1-12, ER 415-1-11, and SAJ EN QMS 02611.

## 6. INDEPENDENT EXTERNAL PEER REVIEW

### a. General

EC 1165-2-217 provides guidance for the implementation of IEPR according to Sections 2034 and 2035 of the Water Resources Development Act (WRDA) of 2007 (Public Law (P.L.) 110-114). The EC addresses review procedures for both the Planning and the Design and Construction Phases (also referred to in USACE guidance as the Feasibility and the Pre-construction, Engineering and Design Phases). The EC defines Section 2035 Safety Assurance Review (SAR), Type II Independent External Peer Review (IEPR). The EC also requires Type II IEPR be managed and conducted outside the Corps of Engineers.

### b. Type I Independent External Peer Review Determination

A Type I IEPR is primarily associated with decision documents. A Type I IEPR is not applicable to the implementation documents covered by this RP.

### c. Type II Independent External Peer Review Determination (Section 2035)

This project does not trigger WRDA 2007 Section 2035 factors for Safety Assurance Review (termed Type II IEPR in EC 1165-2-217). Therefore, a review under Section 2035 is not required. The factors in determining whether a review of design and construction activities of a project are necessary as stated under Section 2035, along with the applicability statements for this RP, are as follows:

(1) Does failure of the project pose a significant threat to human life?

*This project will direct the sheet flow from WCA-3A through three (3) proposed gate structures to be installed in the existing L- 67A levee; then flow southeastward through WCA-3B; then the water flows southward through structures under Tamiami Trail (US 41), and ultimately the flows continue south through Taylor Slough to Everglades National Park (ENP). Figure 2 delineates the existing and proposed drainage structures. In addition, residential or commercial developments are approximately 10.5 miles from the project area. Failure of this project does not pose a significant threat to human life in because there is a levee and two constructed channels to direct flows southward, away from the local residential and commercial structures.*

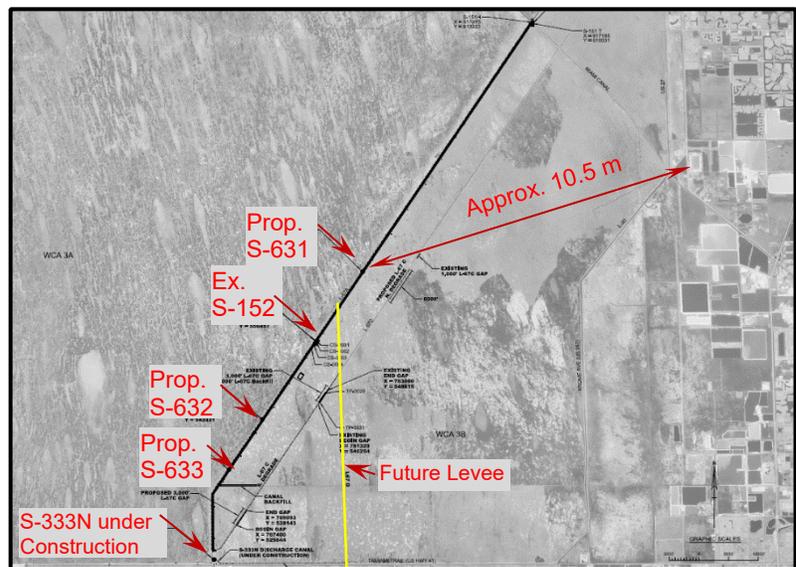


Figure 2: Description of the L-67 A and C

(2) Does the project involve the use of innovative materials or techniques?

*Construction of this contract will utilize standard methods and procedures used by the Corps of Engineers on other similar work.*

(3) Does the project design require redundancy, resiliency, or robustness?

*The project design does not require the addition of redundant project features. Resiliency or robustness incorporated into design features are a function of normal civil works design criteria and are not in excess of customary practice.*

(4) Does the project have a unique construction sequencing or a reduced or overlapping design construction schedule?

*The design is not innovative and not using design or construction techniques that are precedent setting; nor is the project using unique construction scheduling or Early Contractor Involvement (ECI) delivery systems.*

## **7. POLICY AND LEGAL COMPLIANCE**

The SAJ Office of Counsel reviews all contract actions for legal sufficiency in accordance with Engineer Federal Acquisition Regulation Supplement 1.602-2 Responsibilities. The subject implementation documents and supporting environmental documents will be reviewed for legal sufficiency prior to advertisement.

## 8. MODEL CERTIFICATION AND APPROVAL

The project does not use any engineering models that have not been approved for use by USACE. Work conducted uses Bentley MicroStation in combination of InRoads line of products to develop the design set of proposed construction plans. The following engineering models, software, and tools shown in Table 3 are anticipated to be used:

<b>Model Name</b>	<b>Version</b>
HEC-RAS	5.0.7
HY-8	7.5
LEAP Conspan	12.01.00.57
LEAP Bridge Enterprise	14.00.00.19
LEAP Bridge Steel	18.00.00.31
LEAP Bridge Concrete	18.00.00.34
RAM Connection	12.00.01.040
RAM Elements	15.00.00.18
STAAD Foundation	05.03.00.14
STAAD Pro	21.03.00.146
CWALSHT	11.09.2007
LPILE	2019.11.1.0
GeoStudio 2018 R2	9.1.1.16749
GeoStudio 2019	10.0.0.17401
WASH123D (GMS Platform)	9.0

Table 3: Models and Status

## 9. PROJECT DELIVERY TEAM DISCIPLINES

The following engineering disciplines, listed in Table 4, are required for the Project Delivery Team (PDT)

<b>PDT Disciplines</b>
Project Manager
Project ETL, Structural Engineer
Civil Engineer
Geotechnical Engineer
Geologist
Hydraulic Engineer
Cost Engineer
Specification Engineer
Geomatics

Table 4: PDT Disciplines

## 10. BUDGET AND SCHEDULE

### a. Project Milestones

Task	Date
Final DQCR Complete	June 23, 2020
Final ATR Review	June 26, 2020
Final ATR Certification	June 30, 2020
Final BCOES Review	June 26, 2020
Final BCOES Certification	June 30, 2020

Table 5: Project Schedule Milestones

### b. ATR Cost

Funds will be budgeted to execute ATR and schedule as outlined above. It is envisioned that each reviewer will be afforded 30 days review plus 10 days for coordination. The estimated cost range is \$25,000 - \$30,000.

## 11. REVIEW PLAN POINTS OF CONTACT

Title	Organization	Phone
Quality Manager	CESAD-RBT	[REDACTED]
Review Manager	CESAJ-EN-Q	[REDACTED]

Table 6: Review Plan Point of Contacts

**ATTACHMENT A: APPROVED REVIEW PLAN REVISIONS**

<b>Revision Date</b>	<b>Description of Change</b>	<b>Page / Paragraph Number</b>

Table 7: Review Plan Revisions

**ATTACHMENT B: PARTIAL LIST OF ACRONYMS AND ABBREVIATIONS**

<b><u>Acronyms</u></b>	<b><u>Defined</u></b>
AFB	Alternatives Formulation Briefing
ATR	Agency Technical Review
BCOES	Biddability, Constructability, Operability, Environmental, and Sustainability Review
CAP	Continuing Authorities Program
CY	Cubic Yards
DDR	Design Documentation Report
DQC	District Quality Control
DQCR	Discipline Quality Control Review
EC	Engineering Circular
EA	Environmental Assessment
EN QMS	Engineering Division Quality Management System
ER	Engineering Regulation
ERDC-CERL	Engineer Research and Development Center – Construction Engineering Research Laboratory
ESA	Endangered Species Act
ETL	Engineering Technical Lead
FDEP	Florida Department of Environmental Protection
FONSI	Findings of No Significant Impacts
FSCA	Feasibility and Cost Sharing Agreement
FY	Fiscal Year
GRR	General Reevaluation Report
IEPR	Independent External Peer Review
LPP	Locally Preferred Plan
MCX	Mandatory Center of Expertise
MLLW	Mean Low Low Water
MSC	Major Subordinate Command
NAS	National Academy of Sciences
NED	National Economic Development
NEPA	National Environmental Policy Act
ODMDS	Ocean Dredged Material Disposal Site
OMB	Office of Management and Budget
OMRR&R	Operation, Maintenance, Repair, Replacement and Rehabilitation
P&S	Plans and Specifications
PED	Preconstruction Engineering and Design
PDT	Project Delivery Team
PM	Project Manager
PMP	Project Management Plan
PPA	Project Partnering Agreement

<b><u>Acronyms</u></b>	<b><u>Defined</u></b>
PQCR	Product Quality Control Review
QA	Quality Assurance
QCP	Quality Control Plan
QMP	Quality Management Plan
QMS	Quality Management System
RMC	Risk Management Center
RMO	Review Management Organization
RP	Review Plan
RPN	Rio Puerto Nuevo Flood Control Project
RTS	Regional Technical Specialist
SAJ	South Atlantic Jacksonville District Office
SAD	South Atlantic Division Office
SAR	Safety Assurance Review (also referred as Type II IEPR)
SME	Subject Matter Expert
USACE	U.S. Army Corps of Engineers
WRDA	Water Resources Development Act

Table 8: Abbreviations

## **ATTACHMENT C: ATR REPORT OUTLINE**

### **C&SF CEPP-South Contract 1 - L-67A Structures, Spoil Mound Removal and L-67C Gapping Miami Dade, FL**

#### **ATR REPORT OUTLINE**

##### **1. Introduction:**

##### **2. ATR Team Members:**

ATR Team Leader  
Civil Engineer  
Geotechnical Engineer  
Hydraulic Engineer  
Mechanical Engineer  
Structural Engineer

##### **3. ATR Objective:**

##### **4. Documents Reviewed:**

##### **5. Findings and Conclusions:**

##### **6. Unresolved Issues:**

# COMPLETION OF AGENCY TECHNICAL REVIEW

---

The Agency Technical Review (ATR) has been completed for the Preconstruction, Engineering, and Design Phase Implementation Documents for the C&SF CEPP-South Contract 1 L-67A Structures, Spoil Mound Removal and L-67C Gapping Miami Dade County, FL including the design documents, plans and specifications and DDR. The ATR was conducted as defined in the project's Review Plan to comply with the requirements of EC 1165-2-217 and ER 1110-1-12. During the ATR, compliance with established policy principles and procedures, utilizing justified and valid assumptions, was verified. This included review of: assumptions, methods, procedures, and material used in analyses, alternatives evaluated, the appropriateness of data used and level obtained, and reasonableness of the results, including whether the product meets the customer's needs consistent with law and existing US Army Corps of Engineers policy. The ATR also assessed the District Quality Control (DQC) documentation and made the determination that the DQC activities employed appear to be appropriate and effective. All comments resulting from the ATR have been resolved and the comments have been closed in DrChecks<sup>sm</sup>.

---

NAME  
ATR Team Leader

---

Date

---

Engineering Technical Lead  
CESAJ-EN-DL

---

Date

---

Review Management Office Representative  
CESAD-RBT

---

Date

## CERTIFICATION OF AGENCY TECHNICAL REVIEW

Significant concerns and the explanation of the resolution are as follows: [Describe the major technical concerns and their resolution.](#)

As noted above, all concerns resulting from the ATR of the project have been fully resolved.

---

Chief, Engineering Division, Jacksonville District  
SAJ-EN

---

Date