



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

CESAD-RBT

30 October 2018

MEMORANDUM FOR COMMANDER, JACKSONVILLE DISTRICT

SUBJECT: Approval of Review Plan for the Mount Sinai Medical Center, Continuing Authorities Program Section 14, Emergency Streambank and Shoreline Protection Project, Miami-Dade County, Florida

1. References:

- a. Memorandum, CESAJ-EN-Q, 9 October 2018, 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 design and construction phases of the Mount Sinai Medical Center Emergency Streambank and Shoreline Protection Project and concurrence with the conclusion that a Type II Independent External Peer Review (IEPR) of the subject project is not required, reference 1.a, has been reviewed by the South Atlantic Division (SAD) and 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 Plans and Specifications and Design Documentation Report.

4. The SAD 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].

[REDACTED]



DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, JACKSONVILLE DISTRICT
701 SAN MARCO BOULEVARD
JACKSONVILLE, FLORIDA 32207-8915

9 OCT 2018

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 Mount Sinai Medical Center, Continuing Authorities Program Section 14, Emergency Streambank and Shoreline Protection Project, Miami-Dade County, Florida

1. References.

- a. Engineering Circular (EC) 1165-2-217, Civil Works Review, 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 design and construction phases of the Mount Sinai Medical Center Emergency Streambank and Shoreline Protection Project 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 CESAD. It is my understanding that non-substantive changes to this Review Plan, should they become necessary, are authorized by CESAD.

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

4. If you have any questions regarding the information in this memo, please feel free to contact me or contact [REDACTED].

Encl

PROJECT REVIEW PLAN

For

Design and Implementation Phase Implementation Documents

For

Mount Sinai Medical Center Continuing Authorities Program Section 14 Emergency Streambank and Shoreline Protection Project

**Miami-Dade County, Florida
Project P2 number: 446835**

**Jacksonville District
September 2018**



**US Army Corps
of Engineers**®

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ATTACHMENT B - Partial List of Acronyms and Abbreviations

ATTACHMENT C - ATR Report Outline and Completion of Agency Technical Review Form

1. PURPOSE AND REQUIREMENTS

a. Purpose

This Review Plan defines the scope of review activities for the Mount Sinai Medical Center, Emergency Streambank and Shoreline Protection Project, Miami-Dade County, Florida. As discussed below, the review activities consist of a District Quality Control (DQC) effort, an Agency Technical Review (ATR), and a Biddability, Constructability, Operability, Environmental, and Sustainability (BCOES) Review. Also as discussed below, an Independent External Peer Review (IEPR) is not recommended. The project is in the design phase, and the related documents including Plans and Specifications (P&S) and a Design Documentation Report (DDR) are the implementation documents. Upon approval, this review plan will be included into the Project Management Plan for this project as an appendix to the Quality Management Plan.

b. References

- (1). ER 1110-2-1150, "Engineering and Design for Civil Works Projects", 31 August 1999
- (2). ER 1110-1-12, "Engineering and Design Quality Management", 31 March 2011
- (3). EC 1165-2-217, "Civil Works Review", 20 February 2018
- (4). ER 415-1-11, "Biddability, Constructability, Operability, Environmental, and Sustainability (BCOES) Review", 1 January 2013
- (5). SAJ EN QMS 02611, "SAJ Quality Control of In-House Products: Civil Works PED", 21 November 2011
- (6). SAJ EN QMS 08550, "BCOES Reviews", 21 September 2011
- (7). Enterprise Standard (ES) 08025, "Government Construction Quality Assurance Plan and Project/Contract Supplements"
- (8). Enterprise Standard (ES) 08026, "Three Phase Quality Control System"
- (9). P2 # 446835, Project Management Plan, Mount Sinai Medical Center, Miami Beach, Florida, September 2015
- (10). Mount Sinai Medical Center Final Integrated Feasibility Report and Environmental Assessment, May 2017

c. Requirements

This review plan was developed in accordance with EC 1165-2-217, which establishes an accountable, comprehensive, life-cycle review strategy for Civil Works products by providing a seamless process for review of all Civil Works projects from initial planning through design, and construction. The EC provides the procedures for ensuring the quality and credibility of U.S. Army Corps of Engineers (USACE) decision, implementation, and operations and maintenance documents and other work products. The EC outlines five levels of review: District Quality Control, Agency Technical Review, Independent External Peer Review, Policy and Legal Review, and a Biddability, Constructability, Operability, Environmental, and Sustainability Review.

d. Review Plan Approval and Updates

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

e. Review Management Organization

The South Atlantic Division (SAD) is designated as the Review Management Organization (RMO). The RMO, in cooperation of the vertical team, will approve the ATR team members selected by the Jacksonville District US Army Corps of Engineers (CESAJ). CESAJ will assist SAD with management of the ATR and will develop the charge to reviewers.

2. PROJECT INFORMATION

a. Project Location

The project vicinity is located in the City of Miami Beach, Florida, on a barrier island bordered to the east by the Atlantic Ocean and to the west by Biscayne Bay. The project area is the property of Mount Sinai Medical Center, located directly north of Julia Tuttle Causeway and extending approximately 0.57 miles along the bayside of the island. The area vulnerable to erosion is outlined in Figure 1. Within this area, facilities include approximately 2,100 feet of the perimeter road, helicopter pad, and parking facilities (approximately 250 parking spaces) closest to Biscayne Bay.

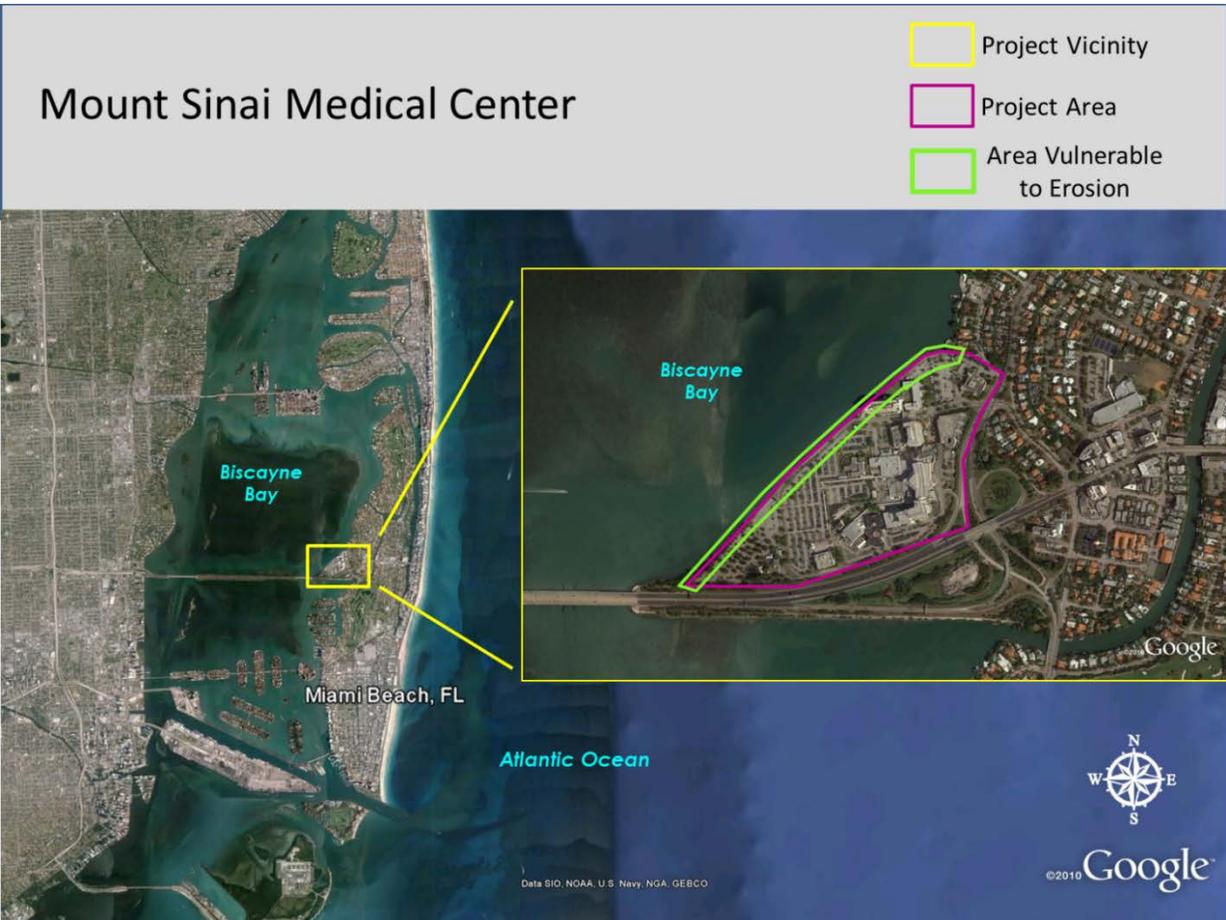


Figure 1: Project Map

b. Project Authorization

A study was conducted under the authority of Section 14 of the Flood Control Act of 1946, as amended, which authorizes the study, design, and construction of small projects for streambank and shoreline erosion protection of public works and non-profit public services. Section 14 is designed to implement projects to protect public facilities and facilities owned by non-profit organizations used to provide public services that are open to all on equal terms. These facilities must have been properly maintained but be in imminent threat of damage or failure by natural erosion processes on stream banks and shorelines and be essential and important enough to merit Federal participation in their protection.

c. Project Description

The Mount Sinai Medical Center is a major medical institution that serves not only the citizens of the City of Miami Beach but also offers a wide array of services to hundreds of thousands of people in the greater Miami metropolitan area. There are numerous buildings of various sizes on the campus, which is bordered on the west by Biscayne Bay.

The Mount Sinai Medical Center is the only hospital facility on the barrier island and maintains emergency services, shelter for electric and oxygen dependent persons, and care for critically ill patients during disasters. The center is also an Essential Services facility and a disaster

coordination point. The primary service area of the center sees 5,000,000 annual visitors and has 125,000 permanent residents. Yearly, there are 22,000 inpatient admissions and 181,000 outpatient admissions. Currently, the facility is unable to fully evacuate all patients during disasters and must shelter in place. It also provides critical support during disasters to the population remaining on the island and other facilities with emergency needs.

During extreme high tide events, the approximately 3,500-foot long bayside seawall is overtopped by tides and waves. Overtopping and the resulting inundation drives erosion of land behind the wall, threatening vulnerable facilities including a perimeter road and parking facilities that are critical to the center's operations. Continued erosion will result in failure of portions, or all, of the existing seawall which is currently in a degraded state. Such failure would impact the perimeter road and vulnerable parking, negatively affect daily operations of the medical center, and limit access to hospital facilities.

The location and configuration of the existing perimeter road are essential to maintaining hospital and emergency operation functions. The existing perimeter road encircles the mid-hospital property and traverses a significant portion of waterfront. Maintaining this configuration is essential for day-to-day hospital operations, as well as the hospital's function as a disaster staging area. The current road configuration provides first responders with quick, efficient access to the emergency room and helipad and provides correct dimensions for fire rescue apparatus. The current configuration along the seawall serves to separate pedestrian and vehicular traffic, which provides for a safer environment for pedestrians and minimizes traffic congestion.

The current design of the Mount Sinai Medical Center Project includes the following:

- Installation of 3,070 linear feet of sheetpile (25 feet long PZC-13 steel sheetpile) driven to a depth of 16 feet in the 3,200 feet long footprint of the existing seawall.
- Use of a vibration or impact hammer to drive the sheetpile no more than 3 feet waterward of the existing seawall with a concrete cap elevation of 4.0 feet, North American Vertical Datum of 1988 (NAVD88). The three foot offset is necessary for workers to reconnect any drainage system or utilities between the new and existing seawall. The three feet offset will be filled with stone.
- A 300 feet long T-wall will tie into the sheetpile and continue landward to the 3.5-foot contour to prevent flanking of the seawall.
- A 1.5-foot concrete lift added to the 130-foot section of existing seawall constructed in 1990 to reach an overall crest elevation of 4.0 feet NAVD88.

d. Public Participation

The Jacksonville District Corporate Communications Office continually keeps the affected public informed on Jacksonville District projects and activities. A summary from every public meeting will be provided to the review team. The approved review plan will be posted on the Jacksonville District Internet. Any comments or questions regarding the review plan will be addressed by the Jacksonville District.

e. In-Kind-Contributions by Project Sponsor

There are no in-kind sponsor contributions related to the P&S and DDR that will affect this review plan or related reviews.

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

The cost related documents associated with the P&S and DDR and the associated contract do not require external peer review or certification by the Cost Engineering Mandatory Center of Expertise (MCX).

3. DISTRICT QUALITY CONTROL

District Quality Control and Quality Assurance activities for DDRs and P&S are stipulated in ER 1110-1-12, Engineering & Design Quality Management and SAJ EN QMS 02611. The subject project DDR and P&S will be prepared by the Jacksonville District using ER 1110-1-12 procedures and will undergo District Quality Control. SAJ EN QMS 02611 defines DQC as the sum of two reviews, Discipline Quality Control Review (DQCR) and Product Quality Control Review (PQCR). Product Quality Control Review Certification is the DQC Certification and will precede ATR.

4. AGENCY TECHNICAL REVIEW

a. Risk Informed Decision on Appropriate Level of Review

Design and Implementation (DI) phase implementation documents are being prepared and an ATR of the P&S and DDR documents will be required.

b. Agency Technical Review Scope.

Agency Technical Review (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. An ATR will be performed on the P&S and DDR pre-final submittals.

ATR will be conducted by individuals and organizations that are external to the Jacksonville District. The ATR Team Leader will be a Corps of Engineers employee outside the South Atlantic Division. The required disciplines and experience are described below.

ATR comments are documented in the DrCheckssm model review documentation database. DrCheckssm is a module in the ProjNetsm suite of tools developed and operated at ERDC-CERL (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 DrCheckssm printout of the comments.

c. ATR Disciplines.

As stipulated 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.

Geotechnical Engineering and Engineering Geology. The team member should be a registered professional and should have a minimum of 5 years of experience. Experience shall encompass geologic and geotechnical analyses that are used to support the development of Plans and Specifications for sheetpile wall installation projects.

Structural Engineering. The team member should be a registered professional engineer with 5 years of experience in structural engineering and experience with sheetpile wall installation projects.

Coastal Engineering. The team member should be a registered professional engineer with 5 years of experience in coastal engineering and experience with wall installation projects.

NEPA Compliance. The team member should have experience in NEPA compliance activities and preparation of Environmental Assessments and Environmental Impact Statements for navigation projects involving sheetpile wall installation.

ATR Team Leader. The ATR Team Leader should have experience with coastal projects and have performed ATR Team Leader duties on past ATR teams. ATR Team Leader can also serve as a co-duty to one of the review disciplines.

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. Biddability, constructability, operability, environmental, and sustainability 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 08550-SAJ, BCOES Reviews.

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 Design and Implementation 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 Review Plan.

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 Review Plan, are as follows:

- (1) The failure of the project would pose a significant threat to human life.

This project consists of sheetpile wall installation. Failure of the sheetpile wall will not directly pose a significant threat to human life.

- (2) The project involves the use of innovative materials or techniques.

This project will utilize methods and procedures commonly used by the Corps of Engineers on other similar works.

- (3) The project design lacks redundancy.

The concept of redundancy does not apply to sheetpile wall projects.

- (4) The project has unique construction sequencing or a reduced or overlapping design construction schedule.

This project's construction sequence and schedule have been used successfully by the Corps of Engineers on this and other similar works. Construction schedules do not have unique sequencing and activities are not reduced or overlapped.

Based on the discussion above, the District Chief of Engineering, as the Engineer-In-Responsible-Charge, does not recommend a Type II IEPR Safety Assurance Review of the P&S and DDR.

7. POLICY AND LEGAL COMPLIANCE

The Jacksonville District 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. Once approved, SAJ will post the approved review plan on the SAJ web site for viewing by the public.

8. MODEL CERTIFICATION AND APPROVAL

The project does not use any engineering models that have not been approved for use by USACE.

9. PROJECT DELIVERY TEAM DISCIPLINES

Discipline/Expertise
Geomatics & Survey
Structural Engineer

Geotechnical Engineering
Structural Engineering
Geology
Coastal Engineering

10. BUDGET AND SCHEDULE

a. Project Milestones.

Task	Date
DQCR	September 2019
PQCR/DQC*	October 2019
ATR Review	November 2019
ATR Certification	December 2019
BCOES Review	December 2019
BCOES Certification	February 2020

*SAJ EN QMS 02611 defines DQC as the sum of DQCR and PQCR

b. ATR Cost.

Funds will be budgeted to execute ATR and schedule as outlined above. It is envisioned that each reviewer will be afforded 24 hours review plus 8 hours for coordination. The estimated cost range is \$35,000 - \$40,000.

ATTACHMENT A: APPROVED REVIEW PLAN REVISIONS

Revision Date	Description of Change	Page / Paragraph Number

ATTACHMENT B: PARTIAL LIST OF ACRONYMS AND ABBREVIATIONS

<u>Acronyms</u>	<u>Defined</u>
AFB	Alternatives Formulation Briefing
ATR	Agency Technical Review
BCOES	Biddability, Constructability, Operability, Environmental, and Sustainability Review
BFWC	Big Fishweir Creek
CAP	Continuing Authorities Program
CERCAP	Corps of Engineers Reviewer Certification and Access Program
CY	Cubic Yards
DDR	Design Documentation Report
DI	Design and Implementation Phase
DQC	District Quality Control
DQCR	Discipline Quality Control Review
EA	Environmental Assessment
EC	Engineering Circular
ER	Engineering Regulation
ERDC-CERL	Engineer Research and Development Center – Construction Engineering Research Laboratory
ESA	Endangered Species Act
ETL	Engineering Technical Lead
EV	Emergent Vegetation
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
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
PDT	Project Delivery Team

<u>Acronyms</u>	<u>Defined</u>
PM	Project Manager
PMP	Project Management Plan
PPA	Project Partnering Agreement
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
RTS	Regional Technical Specialist
SAD	South Atlantic Division Office
SAJ	South Atlantic Jacksonville District Office
SAR	Safety Assurance Review (also referred as Type II IEPR)
SAV	Submerged Aquatic Vegetation
SME	Subject Matter Expert
USACE	U.S. Army Corps of Engineers
WRDA	Water Resources and Development Act

Attachment C

Mount Sinai Medical Center Emergency Streambank and Shoreline Protection Project

Miami-Dade County, Florida

Review of Plans and Specifications (P&S), Design Documentation Report (DDR)

ATR REPORT OUTLINE:

- 1. Introduction:**
- 2. Project Description:**
- 3. ATR Team Members:**
 - Geotechnical Engineering and Engineering Geology.**
 - Structural Engineering.**
 - Coastal Engineering.**
 - NEPA Compliance.**
 - ATR Team Leader.**
- 4. ATR Objective:**
- 5. Documents Reviewed:**
- 6. Findings and Conclusions:**
- 7. Unresolved Issues:**

COMPLETION OF AGENCY TECHNICAL REVIEW

The Agency Technical Review (ATR) has been completed for Mount Sinai Medical Center Emergency Streambank and Shoreline Erosion Protection Project, Miami-Dade County, Florida, 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.

NAME
ATR Team Leader

Date

NAME
Project Manager

Date

NAME
Review Management Office Representative

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.

NAME
Chief, Engineering Division
SAJ-EN

Date