



**US Army Corps  
of Engineers**  
Kansas City District  
*Building Strong*

W912DQ22B1005

---

# **Jameson Chute Rehabilitation Saline County, Missouri FY23**

## **As Advertised**

## **Construction Specifications and Solicitation**

## **April 2023**

**This page was intentionally left blank for duplex printing.**

Kansas City District, Corps of Engineers  
647 Federal Building  
Kansas City, Missouri 64106

SPECIFICATIONS FOR  
**MISSOURI RIVER RECOVERY PROJECT**  
**JAMESON CHUTE REHABILITATION**  
**SALINE COUNTY, MISSOURI**

**COVER**

**TABLE OF CONTENTS**

**DIVISION 00 – PROCUREMENT AND CONTRACTING REQUIREMENTS**

<u>Section</u>	<u>Title</u>
00 10 00	Solicitation
00 21 00	Instructions
00 22 13	Supplementary Instructions to Bidders
00 45 00	Representations and Certifications
00 70 00	Conditions of the Contract
00 72 00	General Conditions
00 73 00	Supplementary Conditions

**DIVISION 01 - GENERAL REQUIREMENTS**

<u>Section</u>	<u>Title</u>
00 11 00	Summary of Work
01 30 00	Administrative Requirements
01 32 16.01 23	Progress Chart (KCD)
01 33 00	Submittal Procedures
01 35 26	Governmental Safety Requirements
01 42 00	Sources for Reference Publications
01 45 00.00 10	Quality Control
01 45 00.15 10	Resident Management System Contractor Mode (RMS CM)
01 50 00	Temporary Construction Facilities and Controls
01 57 19	Temporary Environment Controls
01 78 00	Closeout Submittals

**DIVISION 31 - EARTHWORKS**

<u>Section</u>	<u>Title</u>
31 00 00	Earthwork
31 11 00	Clearing and Grubbing

**DIVISION 32 - EXTERIOR IMPROVEMENTS**

<u>Section</u>	<u>Title</u>
32 92 19	Seeding

**DIVISION 35 - WATERWAY AND MARINE CONSTRUCTION**

<u>Section</u>	<u>Title</u>
35 01 00.00 23	Terminology
35 20 23	Dredging
35 31 24.00 23	Description and Measurement of Materials
35 35 00.00 23	Dikes and Sills
35 35 01.00 23	Revetment
35 73 24.00 23	Bankline Excavation

<b>SOLICITATION, OFFER, AND AWARD</b> <i>(Construction, Alteration, or Repair)</i>	1. SOLICITATION NO.  W912DQ23B1005	2. TYPE OF SOLICITATION <input checked="" type="checkbox"/> SEALED BID (IFB) <input type="checkbox"/> NEGOTIATED (RFP)	3. DATE ISSUED  21-Apr-2023	PAGE OF PAGES  1 OF 37
<b>IMPORTANT - The "offer" section on the reverse must be fully completed by offeror.</b>				
4. CONTRACT NO.	5. REQUISITION/PURCHASE REQUEST NO.		6. PROJECT NO.	
7. ISSUED BY  USACE, KANSAS CITY + FEDERAL BLDG, CT-C + 601 E 12TH ST RM 647 KANSAS CITY MO 64106-2896  TEL: 816-389-3812      FAX: 816-389-2029/2030		CODE W912DQ  8. ADDRESS OFFER TO <i>(If Other Than Item 7)</i> CODE  <b>See Item 7</b>  TEL:      FAX:		
9. FOR INFORMATION CALL:	A. NAME NATHANIEL J LEYBA		B. TELEPHONE NO. <i>(Include area code) (NO COLLECT CALLS)</i> 816-389-2281	
<b>SOLICITATION</b>				
<b>NOTE: In sealed bid solicitations "offer" and "offeror" mean "bid" and "bidder".</b>				
10. THE GOVERNMENT REQUIRES PERFORMANCE OF THE WORK DESCRIBED IN THESE DOCUMENTS <i>(Title, identifying no., date):</i>  The U.S. Army Corps of Engineers (USACE), Kansas City District (NWK) has a need for construction services at Jameson Chute on the Missouri River located in Saline County.  The construction site is accessible by riverine floating plant only; land access is not provided.  This requirement is a 100% Total Small Business Set-Aside that will result in one firm-fixed-price award. The NAICS Code for this requirement is 237990, Size Standard \$39,500,000. In accordance with FAR Part 36.204 and DFARS 236.204 the estimated magnitude of this project is between \$5,000,000 and \$10,000,000.				
11. The Contractor shall begin performance within <u>10</u> calendar days and complete it within <u>540</u> calendar days after receiving <input type="checkbox"/> award, <input checked="" type="checkbox"/> notice to proceed. This performance period is <input checked="" type="checkbox"/> mandatory, <input type="checkbox"/> negotiable. <i>(See 52.211-10)</i>				
12 A. THE CONTRACTOR MUST FURNISH ANY REQUIRED PERFORMANCE AND PAYMENT BONDS? <i>(If "YES," indicate within how many calendar days after award in Item 12B.)</i>  <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			12B. CALENDAR DAYS  10	
13. ADDITIONAL SOLICITATION REQUIREMENTS:  A. Sealed offers in original and <u>1</u> copies to perform the work required are due at the place specified in Item 8 by <u>01:00 PM</u> <i>(hour)</i> local time <u>25 May 2023</u> <i>(date)</i> . If this is a sealed bid solicitation, offers must be publicly opened at that time. Sealed envelopes containing offers shall be marked to show the offeror's name and address, the solicitation number, and the date and time offers are due.  B. An offer guarantee <input checked="" type="checkbox"/> is, <input type="checkbox"/> is not required.  C. All offers are subject to the (1) work requirements, and (2) other provisions and clauses incorporated in the solicitation in full text or by reference.  D. Offers providing less than <u>60</u> calendar days for Government acceptance after the date offers are due will not be considered and will be rejected.				

<b>SOLICITATION, OFFER, AND AWARD (Continued)</b> <i>(Construction, Alteration, or Repair)</i>										
<b>OFFER (Must be fully completed by offeror)</b>										
14. NAME AND ADDRESS OF OFFEROR <i>(Include ZIP Code)</i>					15. TELEPHONE NO. <i>(Include area code)</i>					
CODE                      FACILITY CODE					16. REMITTANCE ADDRESS <i>(Include only if different than Item 14)</i>  <b>See Item 14</b>					
					17. The offeror agrees to perform the work required at the prices specified below in strict accordance with the terms of this solicitation, if this offer is accepted by the Government in writing within _____ calendar days after the date offers are due. <i>(Insert any number equal to or greater than the minimum requirements stated in Item 13D. Failure to insert any number means the offeror accepts the minimum in Item 13D.)</i>					
AMOUNTS		SEE SCHEDULE OF PRICES								
18. The offeror agrees to furnish any required performance and payment bonds.										
<b>19. ACKNOWLEDGMENT OF AMENDMENTS</b> <i>(The offeror acknowledges receipt of amendments to the solicitation -- give number and date of each)</i>										
AMENDMENT NO.										
DATE										
20A. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER <i>(Type or print)</i>					20B. SIGNATURE			20C. OFFER DATE		
<b>AWARD (To be completed by Government)</b>										
21. ITEMS ACCEPTED:										
22. AMOUNT		23. ACCOUNTING AND APPROPRIATION DATA								
24. SUBMIT INVOICES TO ADDRESS SHOWN IN <i>(4 copies unless otherwise specified)</i>				<b>ITEM</b>	25. OTHER THAN FULL AND OPEN COMPETITION PURSUANT TO <input type="checkbox"/> 10 U.S.C. 2304(c) <input type="checkbox"/> 41 U.S.C. 253(c)					
26. ADMINISTERED BY			CODE		27. PAYMENT WILL BE MADE BY:                      CODE					
<b>CONTRACTING OFFICER WILL COMPLETE ITEM 28 OR 29 AS APPLICABLE</b>										
<input type="checkbox"/> 28. NEGOTIATED AGREEMENT <i>(Contractor is required to sign this document and return _____ copies to issuing office.)</i> Contractor agrees to furnish and deliver all items or perform all work, requisitions identified on this form and any continuation sheets for the consideration stated in this contract. The rights and obligations of the parties to this contract shall be governed by (a) this contract award, (b) the solicitation, and (c) the clauses, representations, certifications, and specifications or incorporated by reference in or attached to this contract.					<input type="checkbox"/> 29. AWARD <i>(Contractor is not required to sign this document.)</i> Your offer on this solicitation, is hereby accepted as to the items listed. This award consummates the contract, which consists of (a) the Government solicitation and your offer, and (b) this contract award. No further contractual document is necessary.					
30A. NAME AND TITLE OF CONTRACTOR OR PERSON AUTHORIZED TO SIGN <i>(Type or print)</i>					31A. NAME OF CONTRACTING OFFICER <i>(Type or print)</i>					
30B. SIGNATURE			30C. DATE		TEL:    EMAIL:			31B. UNITED STATES OF AMERICA BY		
								31C. AWARD DATE		

## Section 00 10 00 - Solicitation

CAUTION PAGE

**BEFORE SIGNING AND EMAILING YOUR BID, please take note of the following, as failure to perform any one of these actions may cause your bid to be rejected.**

1. **AMENDMENTS:** Have you acknowledged receipt of ALL amendments? If in doubt as to the number of amendments issued, please contact our office.
2. **AMENDED BID PAGES:** If any of the amendments furnished amended bid pages, the amended bid pages must be used in submitting your bid.
3. **BID GUARANTEE:** Sufficient bid guarantees should be submitted using the latest version of Standard Form (SF) 24 and must be furnished with your bid, if your bid exceeds \$150,000.
4. **MISTAKE IN BID:** Have you reviewed your bid prices for possible errors in calculations or work left out?
5. **FACSIMILE BIDS AND MODIFICATIONS:** Will not be considered. Facsimile withdrawals will be considered.
6. **BUY AMERICAN ACT:** All bidders are cautioned that, prior Government conduct notwithstanding, the Contractor's selection of a domestic construction material which would require the subsequent selection of a foreign construction material for compatibility is not a justification for waiver of the Buy American Act. It is the Contractor's responsibility to verify, prior to submitting the materials for approval, which each system can be built to meet the contract specifications without the use of foreign construction materials.
7. **SUBMISSION OF BIDS AND BID OPENING:** Due to the COVID-19 Global Pandemic, the Government is taking precautions to ensure the safety and health of all Contractors and Government employees. Electronic bids are REQUIRED. Mailed and hand-delivered bids are NOT ALLOWED. The Contractor is required to ensure that the bid package is legible and complete. Bid bonds shall be copied to where the seals are legible.

**To submit your bid, see Submission Requirements Section of this solicitation.** Keep in mind that due to email safeguards and the size of your bid package, emails may not be received immediately by the Government; therefore, **make sure to email bid packages at least ONE HOUR before the bid opening time specified in the solicitation** to ensure there was adequate time to receive bids. If bid packages are not received by the Government recipient by the date and time specified for the bid opening, it may be considered late. Refer to FAR 52.214-7 for how late bid packages are handled.

As another precaution, the conference room will be closed off to the public for viewing, but there will be a conference phone line available for all who are interested in attending the bid opening. The following information will be needed if you would like to call in for the bid opening:

Conference Line Number: (844) 800-2712  
Access Code: 199 075 3103  
Security Code: 1234

If you have any questions, or cannot gain access to the conference line, contact Contract Specialist at (816) 389-3023.

8. **SYSTEM FOR AWARD MANAGEMENT (SAM):** In accordance with FAR 52.204-7, by submission of an offer, the offeror acknowledges the requirement that a prospective awardee shall be registered in the SAM database prior to award, during performance and through final payment of any contract resulting from this solicitation. If the offeror does not become registered in the SAM database in the time prescribed by the Contracting Officer, the Contracting Officer will proceed to award to the next otherwise successful registered offeror. Offerors may obtain information on registration and annual confirmation requirements via the SAM database accessed through

<https://www.sam.gov/SAM/>. It is highly encouraged that all prospective offerors start their SAM registration process as soon as possible. **SAM.GOV REGISTRATION IS FREE OF CHARGE.**

**PER FAR 4.1102(a), OFFERORS MUST BE REGISTERED IN THE SAM DATABASE AT THE TIME A BID IS SUBMITTED. AFTER A BID IS SUBMITTED AND AN OFFEROR IS FOUND NOT REGISTERED IN THE SAM DATABASE, THE CONTRACTING OFFICER WILL PROCEED WITH AWARD TO THE NEXT SUCCESSFUL CONTRACTOR.**

If you were not previously registered, please go to <https://www.sam.gov/SAM/>. Instructions for new registration are also located at the following link:

[https://www.sam.gov/SAM/transcript/Quick Guide for Contract Registrations.pdf](https://www.sam.gov/SAM/transcript/Quick%20Guide%20for%20Contract%20Registrations.pdf) to register.

**PLEASE NOTE: OFFERORS ARE REQUIRED TO FILL OUT ALL NECESSARY AND REQUIRED PROVISIONS OR CLAUSES THAT ARE ASSOCIATED WITH THIS CONTRACT. IF YOUR SAM REGISTRATION DOES NOT SHOW COMPLETED FILL-IN PROVISIONS AND CLAUSES THAT ARE ASSOCIATED WITH THIS CONTRACT, THE FILL-IN PROVISIONS AND/OR CLAUSES SHALL BE COMPLETED AND SUBMITTED WITH YOUR BID PACKAGE.**

If you have questions about Government procurements in general or need assistance in the preparation of your proposal, a local Procurement Technical Assistance Center (PTAC) may be able to help. The Procurement Technical Assistance Program was authorized by Congress in 1985 in an effort to expand the number of businesses capable of participating in the Government marketplace. To locate a PTAC near you, go to <http://www.aptac-us.org/sam-registration/>. **THIS IS A FREE SERVICE BY A NON PROFIT PAID FOR BY THE U.S. GOVERNMENT.**

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001	Chute Ent Flow Control Structure Rehab FFP Includes all costs related to the chute entrance flow control structure rehabilitation work, and chute entrance bank paving in accordance with the contract documents. FOB: Destination PSC CD: Y1KA	1	Job		

---

NET AMT



ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0002	Mid Chute Flow Control Structure Rehab FFP Includes all costs related to mid chute bank paving and rock overlay in accordance with the contract documents. FOB: Destination PSC CD: Y1KA	1	Job		

---

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0003 OPTION	Chute Entrance and Mid Chute Bank Paving FFP Includes all costs related to chute entrance and mid chute bank paving in accordance with the contract documents. CLIN may be exercised at time of award or within 90 days ANP. Option CLIN will NOT extend the contract completion date.  FOB: Destination PSC CD: Y1KA	1	Job		

---

NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0004		1	Job		
OPTION	Dike Repairs FFP Includes all costs related to work at Dike 225.0 and 224.7 in accordance with the contract documents. CLIN may be exercised at time of award or within 90 days ANP. Option CLIN will NOT extend the contract completion date. FOB: Destination PSC CD: Y1KA				

---

 NET AMT
**DELIVERY INFORMATION**

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC / CAGE
0001	540 dys. ANP	1	USACE, KANSAS CITY + JAMES D RUDY II BSNP RESIDENT OFFICE 1022 MAIN STREET LEXINGTON MO 64067 (816) 389-3511 FOB: Destination	966418
0002	540 dys. ANP	1	(SAME AS PREVIOUS LOCATION) FOB: Destination	966418
0003	540 dys. ANP	1	(SAME AS PREVIOUS LOCATION) FOB: Destination	966418
0004	540 dys. ANP	1	(SAME AS PREVIOUS LOCATION) FOB: Destination	966418

**MAGNITUDE OF PROJECT**

The magnitude of this project is represented by the following estimated price range: Between \$5,000,000 and \$10,000,000

**POINTS OF CONTACT**

<b>Title</b>	<b>Name</b>	<b>Phone</b>	<b>Email</b>
Contracting Officer	Christopher W. Anderson	(816) 389-3850	<a href="mailto:Christopher.W.Anderson@usace.army.mil">Christopher.W.Anderson@usace.army.mil</a>
Contract Specialist	Nathaniel Leyba	(816) 389-2281	<a href="mailto:nathaniel.j.leyba@usace.army.mil">nathaniel.j.leyba@usace.army.mil</a>

## Section 00 21 00 - Instructions

SUBMISSION REQUIREMENTS

All bids are due by: SEE BLOCK 13, on front page

The public bid opening will begin: SEE BLOCK 13, on front page.

[nathaniel.j.leyba@usace.army.mil](mailto:nathaniel.j.leyba@usace.army.mil)  
[christopher.w.anderson@usace.army.mil](mailto:christopher.w.anderson@usace.army.mil)

This IFB will result in **one** Firm-Fixed-Price contract.

Submit one (1) copy of the following in your bid package:

Bid schedule - complete with your bid amount

Ensure all Amendments are acknowledged

Bid Bonds - required with your submission

Provisions/clauses are filled out that have not been acknowledged in SAM registration

Field Office information filled out

Ensure Bid is reviewed and signed by a Principal of your company with authority to do so

INQUIRIES/QUESTIONS/PLAN ROOM FOR DRAWINGS

Prospective Bidders shall submit contracting and technical inquiries and questions concerning this solicitation document via Bidder Inquiry in ProjNet at [www.projnet.org/projnet](http://www.projnet.org/projnet).

To submit and review offer inquiry items, Offerors will need to be a current registered user or self-register into the system. To self-register, go to the aforementioned web page and click on Register. Select Agency: USACE, then select Site: Contractor. Complete the required fields and then click the Register button.

If you are registered, enter the Managing Agency: USACE, your email address, and the Bidder Inquiry Key for this solicitation listed below, check the security box, and then click Sign in.

From this page, you may view all bidder inquiries or add a new inquiry.

Bidders will receive an acknowledgement of their questions via email, followed by an answer to their questions after it has been processed by our technical team. \*\*\*Please Note: Bidders shall only submit one (1) question per inquiry. All inquiries containing multiple questions shall be rejected\*\*\*

The Solicitation Number is: **W912DQ23B1005**

The Bidder Inquiry Key is: **QYCWCG-AQBZQ9**

The Bidder Inquiry System will be unavailable for new inquiries after **11 May 2023**, at **2PM** local Kansas City time in order to ensure adequate time is allotted to form an appropriate response to inquiries and amend the solicitation, if necessary.

Bidders are requested to review the specification in its entirety, and review the Bidder Inquiry System for answers to questions prior to submission of a new inquiry.

The telephone number for the Call Center is (833) 389-1097 or (217) 367-3273. Email to: [staff@projnet.info](mailto:staff@projnet.info).

CLAUSES INCORPORATED BY REFERENCE

52.203-11	Certification And Disclosure Regarding Payments To Influence Certain Federal Transactions	SEP 2007
52.204-7	System for Award Management	OCT 2018
52.204-16	Commercial and Government Entity Code Reporting	AUG 2020
52.204-22	Alternative Line Item Proposal	JAN 2017
52.214-3	Amendments To Invitations For Bids	DEC 2016
52.214-4	False Statements In Bids	APR 1984
52.214-5	Submission Of Bids	DEC 2016
52.214-6	Explanation To Prospective Bidders	APR 1984
52.214-7	Late Submissions, Modifications, and Withdrawals of Bids	NOV 1999
52.214-18	Preparation of Bids-Construction	APR 1984
52.214-19	Contract Award-Sealed Bidding-Construction	AUG 1996
52.214-34	Submission Of Offers In The English Language	APR 1991
52.214-35	Submission Of Offers In U.S. Currency	APR 1991
52.217-5	Evaluation Of Options	JUL 1990
52.222-5	Construction Wage Rate Requirements--Secondary Site of the Work	MAY 2014
52.223-4	Recovered Material Certification	MAY 2008
52.225-12 Alt II	Notice of Buy American Requirement--Construction Materials Under Trade Agreements (MAY 2014) Alternate II	JUN 2009
252.232-7016	Notice of Progress Payments or Performance-Based Payments	APR 2020

#### CLAUSES INCORPORATED BY FULL TEXT

##### 52.216-1 TYPE OF CONTRACT (APR 1984)

The Government contemplates award of a Firm-Fixed-Priced contract resulting from this solicitation.

(End of provision)

##### 52.222-22 PREVIOUS CONTRACTS AND COMPLIANCE REPORTS (FEB 1999)

The offeror represents that --

(a) ( ) It has, ( ) has not participated in a previous contract or subcontract subject to the Equal Opportunity clause of this solicitation;

(b) ( ) It has, ( ) has not, filed all required compliance reports; and

(c) Representations indicating submission of required compliance reports, signed by proposed subcontractors, will be obtained before subcontract awards.

(End of provision)

##### 52.228-1 BID GUARANTEE (SEP 1996)

(a) Failure to furnish a bid guarantee in the proper form and amount, by the time set for opening of bids, may be cause for rejection of the bid.

(b) The bidder shall furnish a bid guarantee in the form of a firm commitment, e.g., bid bond supported by good and sufficient surety or sureties acceptable to the Government, postal money order, certified check, cashier's check, irrevocable letter of credit, or, under Treasury Department regulations, certain bonds or notes of the United States. The Contracting Officer will return bid guarantees, other than bid bonds, (1) to unsuccessful bidders as soon as practicable after the opening of bids, and (2) to the successful bidder upon execution of contractual documents and bonds (including any necessary coinsurance or reinsurance agreements), as required by the bid as accepted.-

(c) The amount of the bid guarantee shall be 20 percent of the bid price or \$3,000,000.00, whichever is less.-

(d) If the successful bidder, upon acceptance of its bid by the Government within the period specified for acceptance, fails to execute all contractual documents or furnish executed bond(s) within 10 days after receipt of the forms by the bidder, the Contracting Officer may terminate the contract for default.-

(e) In the event the contract is terminated for default, the bidder is liable for any cost of acquiring the work that exceeds the amount of its bid, and the bid guarantee is available to offset the difference.

(End of provision)

#### 52.233-2 SERVICE OF PROTEST (SEP 2006)

(a) Protests, as defined in section 33.101 of the Federal Acquisition Regulation, that are filed directly with an agency, and copies of any protests that are filed with the Government Accountability Office (GAO), shall be served on the Contracting Officer (addressed as follows) by obtaining written and dated acknowledgment of receipt from

**U.S. Army Corps of Engineers, Kansas City District**  
**ATTN: Christopher W. Anderson, CECT-NWK-C**  
**Federal Building**  
**601 E. 12th Street, RM 647**  
**Kansas City, Missouri 64106-2896**

(b) The copy of any protest shall be received in the office designated above within one day of filing a protest with the GAO.

(End of provision)

#### 52.236-27 SITE VISIT (CONSTRUCTION) (FEB 1995) – ALTERNATE I (FEB 1995)

(a) The clauses at 52.236-2, Differing Site Conditions, and 52.236-3, Site Investigations and Conditions Affecting the Work, will be included in any contract awarded as a result of this solicitation. Accordingly, offerors or quoters are urged and expected to inspect the site where the work will be performed.

(b) An organized site visit has been scheduled for--

**27 April 2023 @ 11:00 am**

(c) Participants will meet at--

**E Bourgmont Park Access on 41 Hwy in Cooper County, Missouri**  
**GPS: 38.94141, -92.87183**

**Each contractor will have to provide their own boat as the government cannot transport contractors to the site**

(End of provision)

52.252-1 SOLICITATION PROVISIONS INCORPORATED BY REFERENCE (FEB 1998)

This solicitation incorporates one or more solicitation provisions by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. The offeror is cautioned that the listed provisions may include blocks that must be completed by the offeror and submitted with its quotation or offer. In lieu of submitting the full text of those provisions, the offeror may identify the provision by paragraph identifier and provide the appropriate information with its quotation or offer. Also, the full text of a solicitation provision may be accessed electronically at this/these address(es):

Federal Acquisition Regulations System (FAR)

<https://www.acquisition.gov/>

Defense Federal Acquisition Regulation Supplement (DFARS)

<https://www.acq.osd.mil/dpap/dars/dfarspgi/current/>

(End of provision)

52.252-5 AUTHORIZED DEVIATIONS IN PROVISIONS (NOV 2020)

(a) The use in this solicitation of any Federal Acquisition Regulation (48 CFR Chapter 1) provision with an authorized deviation is indicated by the addition of "(DEVIATION)" after the date of the provision.

(b) The use in this solicitation of any **DFARS** (48 CFR Chapter 2) provision with an authorized deviation is indicated by the addition of "(DEVIATION)" after the name of the regulation.

(End of provision)

## Section 00 22 13 - Supplementary Instructions to Bidders

PARTNERING WITH US

DEFINITIZATION OF REQUESTS FOR EQUITABLE ADJUSTMENTS RELATED TO CHANGE ORDER UNDER CONSTRUCTION CONTRACTS: A description of agency policies and procedures that apply to equitable adjustments for change orders under construction contracts as well as data on the agency's past performance regarding the time required to definitize equitable adjustments can be found on the USACE agency website Partnering With Us (<https://www.usace.army.mil/Business-With-Us/Partnering/>). The website includes the Construction Project Partnering Playbook, the Construction Contract Modification Process, Construction Contract Modification Process Past Performance Data, and the Firm-Fixed-Priced Contract Changes Playbook.



## Section 00 45 00 - Representations and Certifications

## CLAUSES INCORPORATED BY REFERENCE

52.203-2	Certificate Of Independent Price Determination	APR 1985
52.204-24	Representation Regarding Certain Telecommunications and Video Surveillance Services or Equipment	NOV 2021
52.204-26	Covered Telecommunications Equipment or Services-- Representation.	OCT 2020
52.209-7	Information Regarding Responsibility Matters	OCT 2018
52.209-13	Violation of Arms Control Treaties or Agreements -- Certification	NOV 2021
52.225-25	Prohibition on Contracting with Entities Engaging in Certain Activities or Transactions Relating to Iran-- Representation and Certifications.	JUN 2020
252.203-7005	Representation Relating to Compensation of Former DoD Officials	NOV 2011
252.204-7016	Covered Defense Telecommunications Equipment or Services -- Representation	DEC 2019
252.204-7017	Prohibition on the Acquisition of Covered Defense Telecommunications Equipment or Services -- Representation	MAY 2021

## CLAUSES INCORPORATED BY FULL TEXT

## 52.204-8 ANNUAL REPRESENTATIONS AND CERTIFICATIONS (MAY 2022)

(a)(1) The North American Industry Classification System (NAICS) code for this acquisition is 237990.

(2) The small business size standard is \$39,500,000.

(3) The small business size standard for a concern that submits an offer, other than on a construction or service acquisition, but proposes to furnish an end item that it did not itself manufacture, process, or produce is 500 employees if the acquisition--

(i) Is set aside for small business and has a value above the simplified acquisition threshold;

(ii) Uses the HUBZone price evaluation preference regardless of dollar value, unless the offeror waives the price evaluation preference; or

(iii) Is an 8(a), HUBZone, service-disabled veteran-owned, economically disadvantaged women-owned, or women-owned small business set-aside or sole-source award regardless of dollar value.

(b)(1) If the provision at 52.204-7, System for Award Management, is included in this solicitation, paragraph (d) of this provision applies.

(2) If the provision at 52.204-7, System for Award Management, is not included in this solicitation, and the Offeror has an active registration in the System for Award Management (SAM), the Offeror may choose to use paragraph (d) of this provision instead of completing the corresponding individual representations and certifications in the solicitation. The Offeror shall indicate which option applies by checking one of the following boxes:

(        ) Paragraph (d) applies.

( ) Paragraph (d) does not apply and the offeror has completed the individual representations and certifications in the solicitation.

(c) (1) The following representations or certifications in SAM are applicable to this solicitation as indicated:

(i) 52.203-2, Certificate of Independent Price Determination. This provision applies to solicitations when a firm-fixed-price contract or fixed-price contract with economic price adjustment is contemplated, unless—

(A) The acquisition is to be made under the simplified acquisition procedures in Part 13;

(B) The solicitation is a request for technical proposals under two-step sealed bidding procedures; or

(C) The solicitation is for utility services for which rates are set by law or regulation.

(ii) 52.203-11, Certification and Disclosure Regarding Payments to Influence Certain Federal Transactions. This provision applies to solicitations expected to exceed \$150,000.

(iii) 52.203-18, Prohibition on Contracting with Entities that Require Certain Internal Confidentiality Agreements or Statements--Representation. This provision applies to all solicitations.

(iv) 52.204-3, Taxpayer Identification. This provision applies to solicitations that do not include the provision at 52.204-7, System for Award Management.

(v) 52.204-5, Women-Owned Business (Other Than Small Business). This provision applies to solicitations that—

(A) Are not set aside for small business concerns;

(B) Exceed the simplified acquisition threshold; and

(C) Are for contracts that will be performed in the United States or its outlying areas.

(vi) 52.204-26, Covered Telecommunications Equipment or Services--Representation. This provision applies to all solicitations.

(vii) 52.209-2, Prohibition on Contracting with Inverted Domestic Corporations--Representation.

(viii) 52.209-5, Certification Regarding Responsibility Matters. This provision applies to solicitations where the contract value is expected to exceed the simplified acquisition threshold.

(ix) 52.209-11, Representation by Corporations Regarding Delinquent Tax Liability or a Felony Conviction under any Federal Law. This provision applies to all solicitations.

(x) 52.214-14, Place of Performance--Sealed Bidding. This provision applies to invitations for bids except those in which the place of performance is specified by the Government.

(xi) 52.215-6, Place of Performance. This provision applies to solicitations unless the place of performance is specified by the Government.

(xii) 52.219-1, Small Business Program Representations (Basic, Alternates I, and II). This provision applies to solicitations when the contract is for supplies to be delivered or services to be performed in the United States or its outlying areas, or when the contracting officer has applied part 19 in accordance with 19.000(b)(1)(ii).

(A) The basic provision applies when the solicitations are issued by other than DoD, NASA, and the Coast Guard.

(B) The provision with its Alternate I applies to solicitations issued by DoD, NASA, or the Coast Guard.

(C) The provision with its Alternate II applies to solicitations that will result in a multiple-award contract with more than one NAICS code assigned.

(xiii) 52.219-2, Equal Low Bids. This provision applies to solicitations when contracting by sealed bidding and the contract is for supplies to be delivered or services to be performed in the United States or its outlying areas, or when the contracting officer has applied part 19 in accordance with 19.000(b)(1)(ii).

(xiv) 52.222-22, Previous Contracts and Compliance Reports. This provision applies to solicitations that include the clause at 52.222-26, Equal Opportunity.

(xv) 52.222-25, Affirmative Action Compliance. This provision applies to solicitations, other than those for construction, when the solicitation includes the clause at 52.222-26, Equal Opportunity.

(xvi) 52.222-38, Compliance with Veterans' Employment Reporting Requirements. This provision applies to solicitations when it is anticipated the contract award will exceed the simplified acquisition threshold and the contract is not for acquisition of commercial products or commercial services.

(xvii) 52.223-1, Biobased Product Certification. This provision applies to solicitations that require the delivery or specify the use of USDA-designated items; or include the clause at 52.223-2, Affirmative Procurement of Biobased Products Under Service and Construction Contracts.

(xviii) 52.223-4, Recovered Material Certification. This provision applies to solicitations that are for, or specify the use of, EPA- designated items.

(xix) 52.223-22, Public Disclosure of Greenhouse Gas Emissions and Reduction Goals--Representation. This provision applies to solicitations that include the clause at 52.204-7.)

(xx) 52.225-2, Buy American Certificate. This provision applies to solicitations containing the clause at 52.225-1.

(xxi) 52.225-4, Buy American--Free Trade Agreements--Israeli Trade Act Certificate. (Basic, Alternates I, II, and III.) This provision applies to solicitations containing the clause at 52.225- 3.

(A) If the acquisition value is less than \$25,000, the basic provision applies.

(B) If the acquisition value is \$25,000 or more but is less than \$50,000, the provision with its Alternate I applies.

(C) If the acquisition value is \$50,000 or more but is less than \$92,319, the provision with its Alternate II applies.

(D) If the acquisition value is \$92,319 or more but is less than \$100,000, the provision with its Alternate III applies.

(xxii) 52.225-6, Trade Agreements Certificate. This provision applies to solicitations containing the clause at 52.225-5.

(xxiii) 52.225-20, Prohibition on Conducting Restricted Business Operations in Sudan--Certification. This provision applies to all solicitations.

(xxiv) 52.225-25, Prohibition on Contracting with Entities Engaging in Certain Activities or Transactions Relating to Iran—Representation and Certification. This provision applies to all solicitations.

(xxv) 52.226-2, Historically Black College or University and Minority Institution Representation. This provision applies to solicitations for research, studies, supplies, or services of the type normally acquired from higher educational institutions.

(2) The following representations or certifications are applicable as indicated by the Contracting Officer:

**X (i) 52.204-17, Ownership or Control of Offeror.**

**X (ii) 52.204-20, Predecessor of Offeror.**

(iii) 52.222-18, Certification Regarding Knowledge of Child Labor for Listed End Products.

(iv) 52.222-48, Exemption from Application of the Service Contract Labor Standards to Contracts for Maintenance, Calibration, or Repair of Certain Equipment--Certification.

(v) 52.222-52 Exemption from Application of the Service Contract Labor Standards to Contracts for Certain Services--Certification.

(vi) 52.223-9, with its Alternate I, Estimate of Percentage of Recovered Material Content for EPA-Designated Products (Alternate I only).

(vii) 52.227-6, Royalty Information.

(A) Basic.

(B) Alternate I.

(viii) 52.227-15, Representation of Limited Rights Data and Restricted Computer Software.

(d) The Offeror has completed the annual representations and certifications electronically in SAM accessed through <https://www.sam.gov>. After reviewing the SAM information, the Offeror verifies by submission of the offer that the representations and certifications currently posted electronically that apply to this solicitation as indicated in paragraph (c) of this provision have been entered or updated within the last 12 months, are current, accurate, complete, and applicable to this solicitation (including the business size standard applicable to the NAICS code referenced for this solicitation), as of the date of this offer and are incorporated in this offer by reference (see FAR 4.1201); except for the changes identified below [        offeror to insert changes, identifying change by clause number, title, date]. These amended representation(s) and/or certification(s) are also incorporated in this offer and are current, accurate, and complete as of the date of this offer.

FAR Clause	Title	Date	Change
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----

Any changes provided by the offeror are applicable to this solicitation only, and do not result in an update to the representations and certifications posted on SAM.

(End of provision)

252.204-7007 ALTERNATE A, ANNUAL REPRESENTATIONS AND CERTIFICATIONS (MAY 2021)

Substitute the following paragraphs (b), (d) and (e) for paragraphs (b) and (d) of the provision at FAR 52.204-8:

(b)(1) If the provision at FAR 52.204-7, System for Award Management, is included in this solicitation, paragraph (e) of this provision applies.

(2) If the provision at FAR 52.204-7, System for Award Management, is not included in this solicitation, and the Offeror has an active registration in the System for Award Management (SAM), the Offeror may choose to use paragraph (e) of this provision instead of completing the corresponding individual representations and certifications in the solicitation. The Offeror shall indicate which option applies by checking one of the following boxes:

☐ (i) Paragraph (e) applies.

☐ (ii) Paragraph (e) does not apply and the Offeror has completed the individual representations and certifications in the solicitation.

(d)(1) The following representations or certifications in the SAM database are applicable to this solicitation as indicated:

(i) 252.204-7016, Covered Defense Telecommunications Equipment or Services--Representation. Applies to all solicitations.

(ii) 252.216-7008, Economic Price Adjustment--Wage Rates or Material Prices Controlled by a Foreign Government. Applies to solicitations for fixed-price supply and service contracts when the contract is to be performed wholly or in part in a foreign country, and a foreign government controls wage rates or material prices and may during contract performance impose a mandatory change in wages or prices of materials.

(iii) 252.225-7042, Authorization to Perform. Applies to all solicitations when performance will be wholly or in part in a foreign country.

(iv) 252.225-7049, Prohibition on Acquisition of Certain Foreign Commercial Satellite Services--Representations. Applies to solicitations for the acquisition of commercial satellite services.

(v) 252.225-7050, Disclosure of Ownership or Control by the Government of a Country that is a State Sponsor of Terrorism. Applies to all solicitations expected to result in contracts of \$150,000 or more.

(vi) 252.229-7012, Tax Exemptions (Italy)--Representation. Applies to solicitations when contract performance will be in Italy.

(vii) 252.229-7013, Tax Exemptions (Spain)--Representation. Applies to solicitations when contract performance will be in Spain.

(viii) 252.247-7022, Representation of Extent of Transportation by Sea. Applies to all solicitations except those for direct purchase of ocean transportation services or those with an anticipated value at or below the simplified acquisition threshold.

(2) The following representations or certifications in SAM are applicable to this solicitation as indicated by the Contracting Officer:

**X (i) 252.209-7002, Disclosure of Ownership or Control by a Foreign Government.**

\_\_\_\_ (ii) 252.225-7000, Buy American--Balance of Payments Program Certificate.

\_\_\_\_ (iii) 252.225-7020, Trade Agreements Certificate.

\_\_\_\_ Use with Alternate I.

**X (iv) 252.225-7031, Secondary Arab Boycott of Israel.**

\_\_\_\_ (v) 252.225-7035, Buy American--Free Trade Agreements--Balance of Payments Program Certificate.

\_\_\_\_ Use with Alternate I.

\_\_\_\_ Use with Alternate II.

\_\_\_\_ Use with Alternate III.

\_\_\_\_ Use with Alternate IV.

\_\_\_\_ Use with Alternate V.

\_\_\_\_ (vi) 252.226-7002, Representation for Demonstration Project for Contractors Employing Persons with Disabilities.

\_\_\_\_ (vii) 252.232-7015, Performance-Based Payments--Representation.

(e) The Offeror has completed the annual representations and certifications electronically via the SAM website at <https://www.acquisition.gov/>. After reviewing the SAM database information, the Offeror verifies by submission of the offer that the representations and certifications currently posted electronically that apply to this solicitation as indicated in FAR 52.204-8(c) and paragraph (d) of this provision have been entered or updated within the last 12 months, are current, accurate, complete, and applicable to this solicitation (including the business size standard applicable to the NAICS code referenced for this solicitation), as of the date of this offer, and are incorporated in this offer by reference (see FAR 4.1201); except for the changes identified below [Offeror to insert changes, identifying change by provision number, title, date \_\_\_\_]. These amended representation(s) and/or certification(s) are also incorporated in this offer and are current, accurate, and complete as of the date of this offer.

FAR/DFARS provision No.	Title	Date	Change

Any changes provided by the Offeror are applicable to this solicitation only, and do not result in an update to the representations and certifications located in the SAM database.

(End of provision)

## Section 00 70 00 - Conditions of the Contract

## INSPECTION AND ACCEPTANCE TERMS

Supplies/services will be inspected/accepted at:

CLIN	INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
0001	Destination	Government	Destination	Government
0002	Destination	Government	Destination	Government
0003	Destination	Government	Destination	Government
0004	Destination	Government	Destination	Government

AT/OPSECAntiterrorism/Operation Security (AT/OPSEC)

Contractors shall comply with the requirements set forth in FAR clause 52.222-54 Employment Eligibility Verification and FAR Subpart 22.18 in using the E-Verify Program at (<https://www.e-verify.gov/>) (website subject to change) to meet the contract employment eligibility requirements. Contractors are encouraged to cooperate with Federal and State agencies responsible for enforcing labor requirements to include eligibility for employment under United States immigration laws in accordance with FAR 22.102-1(i). An initial list of verified/eligible candidates shall be provided to the COR no later than three business days after the initial contract award. When contracts are with individuals, the individuals will be required to complete a Form I-9, Employment Eligibility Verification, and submit it to the Contracting Officer to become part of the official contract file.

## Section 00 72 00 - General Conditions

## CLAUSES INCORPORATED BY REFERENCE

52.202-1	Definitions	JUN 2020
52.203-3	Gratuities	APR 1984
52.203-5	Covenant Against Contingent Fees	MAY 2014
52.203-6	Restrictions On Subcontractor Sales To The Government	JUN 2020
52.203-7	Anti-Kickback Procedures	JUN 2020
52.203-8	Cancellation, Rescission, and Recovery of Funds for Illegal or Improper Activity	MAY 2014
52.203-10	Price Or Fee Adjustment For Illegal Or Improper Activity	MAY 2014
52.203-12	Limitation On Payments To Influence Certain Federal Transactions	JUN 2020
52.203-13	Contractor Code of Business Ethics and Conduct	NOV 2021
52.203-19	Prohibition on Requiring Certain Internal Confidentiality Agreements or Statements	JAN 2017
52.204-4	Printed or Copied Double-Sided on Postconsumer Fiber Content Paper	MAY 2011
52.204-10	Reporting Executive Compensation and First-Tier Subcontract Awards	JUN 2020
52.204-13	System for Award Management Maintenance	OCT 2018
52.204-18	Commercial and Government Entity Code Maintenance	AUG 2020
52.204-19	Incorporation by Reference of Representations and Certifications.	DEC 2014
52.204-21	Basic Safeguarding of Covered Contractor Information Systems	NOV 2021
52.204-23	Prohibition on Contracting for Hardware, Software, and Services Developed or Provided by Kaspersky Lab and Other Covered Entities	NOV 2021
52.204-25	Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment	NOV 2021
52.209-6	Protecting the Government's Interest When Subcontracting With Contractors Debarred, Suspended, or Proposed for Debarment	NOV 2021
52.209-10	Prohibition on Contracting With Inverted Domestic Corporations	NOV 2015
52.210-1	Market Research	NOV 2021
52.211-13	Time Extensions	SEP 2000
52.211-18	Variation in Estimated Quantity	APR 1984
52.214-26	Audit and Records--Sealed Bidding	JUN 2020
52.214-27 (Dev)	Price Reduction for Defective Certified Cost or Pricing Data - Modifications - Sealed Bidding (DEVIATION 2022-O0001)	OCT 2021
52.214-28 (Dev)	Subcontractor Certified Cost Or Pricing Data--Modifications--Sealed Bidding (DEVIATION 2022-O0001)	OCT 2021
52.219-6	Notice Of Total Small Business Set-Aside	NOV 2020
52.219-8	Utilization of Small Business Concerns	OCT 2018
52.222-1	Notice To The Government Of Labor Disputes	FEB 1997
52.222-3	Convict Labor	JUN 2003
52.222-4	Contract Work Hours and Safety Standards - Overtime Compensation	MAY 2018
52.222-6	Construction Wage Rate Requirements	AUG 2018
52.222-7	Withholding of Funds	MAY 2014
52.222-8	Payrolls and Basic Records	JUL 2021



52.222-9	Apprentices and Trainees	JUL 2005
52.222-10	Compliance with Copeland Act Requirements	FEB 1988
52.222-11	Subcontracts (Labor Standards)	MAY 2014
52.222-12	Contract Termination-Debarment	MAY 2014
52.222-13	Compliance With Construction Wage Rate Requirements and Related Regulations	MAY 2014
52.222-14	Disputes Concerning Labor Standards	FEB 1988
52.222-15	Certification of Eligibility	MAY 2014
52.222-21	Prohibition Of Segregated Facilities	APR 2015
52.222-26	Equal Opportunity	SEP 2016
52.222-27	Affirmative Action Compliance Requirements for Construction	APR 2015
52.222-35	Equal Opportunity for Veterans	JUN 2020
52.222-36	Equal Opportunity for Workers with Disabilities	JUN 2020
52.222-37	Employment Reports on Veterans	JUN 2020
52.222-40	Notification of Employee Rights Under the National Labor Relations Act	DEC 2010
52.222-50	Combating Trafficking in Persons	NOV 2021
52.222-54	Employment Eligibility Verification	MAY 2022
52.222-55	Minimum Wages for Contractor Workers Under Executive Order 14026	JAN 2022
52.222-62	Paid Sick Leave Under Executive Order 13706	JAN 2022
52.223-2	Affirmative Procurement of Biobased Products Under Service and Construction Contracts	SEP 2013
52.223-6	Drug-Free Workplace	MAY 2001
52.223-17	Affirmative Procurement of EPA-Designated Items in Service and Construction Contracts	AUG 2018
52.223-18	Encouraging Contractor Policies To Ban Text Messaging While Driving	JUN 2020
52.225-13	Restrictions on Certain Foreign Purchases	FEB 2021
52.227-1	Authorization and Consent	JUN 2020
52.227-2	Notice And Assistance Regarding Patent And Copyright Infringement	JUN 2020
52.227-4	Patent Indemnity-Construction Contracts	DEC 2007
52.228-2	Additional Bond Security	OCT 1997
52.228-5	Insurance - Work On A Government Installation	JAN 1997
52.228-11 (Dev)	Individual Surety--Pledge of Assets (DEVIATION 2020-O0016)	FEB 2021
52.228-12	Prospective Subcontractor Requests for Bonds	MAY 2014
52.228-15 (Dev)	Performance and Payment Bonds-Construction. (Deviation 2020-O0016)	JUN 2020
52.229-3	Federal, State And Local Taxes	FEB 2013
52.232-5	Payments under Fixed-Price Construction Contracts	MAY 2014
52.232-17	Interest	MAY 2014
52.232-23	Assignment Of Claims	MAY 2014
52.232-27	Prompt Payment for Construction Contracts	JAN 2017
52.232-33	Payment by Electronic Funds Transfer--System for Award Management	OCT 2018
52.232-39	Unenforceability of Unauthorized Obligations	JUN 2013
52.232-40	Providing Accelerated Payments to Small Business Subcontractors	NOV 2021
52.233-1	Disputes	MAY 2014
52.233-3	Protest After Award	AUG 1996
52.233-4	Applicable Law for Breach of Contract Claim	OCT 2004
52.236-2	Differing Site Conditions	APR 1984

52.236-3	Site Investigation and Conditions Affecting the Work	APR 1984
52.236-5	Material and Workmanship	APR 1984
52.236-6	Superintendence by the Contractor	APR 1984
52.236-7	Permits and Responsibilities	NOV 1991
52.236-8	Other Contracts	APR 1984
52.236-9	Protection of Existing Vegetation, Structures, Equipment, Utilities, and Improvements	APR 1984
52.236-10	Operations and Storage Areas	APR 1984
52.236-11	Use and Possession Prior to Completion	APR 1984
52.236-12	Cleaning Up	APR 1984
52.236-13	Accident Prevention	NOV 1991
52.236-15	Schedules for Construction Contracts	APR 1984
52.236-17	Layout of Work	APR 1984
52.236-21	Specifications and Drawings for Construction	FEB 1997
52.236-26	Preconstruction Conference	FEB 1995
52.242-13	Bankruptcy	JUL 1995
52.242-14	Suspension of Work	APR 1984
52.242-15	Stop-Work Order	AUG 1989
52.243-4	Changes	JUN 2007
52.244-6	Subcontracts for Commercial Products and Commercial Services	JAN 2022
52.246-12	Inspection of Construction	AUG 1996
52.246-21	Warranty of Construction	MAR 1994
52.248-3	Value Engineering-Construction	OCT 2020
52.249-2 Alt I	Termination for Convenience of the Government (Fixed- Price) (Apr 2012) - Alternate I	SEP 1996
52.249-10	Default (Fixed-Price Construction)	APR 1984
52.253-1	Computer Generated Forms	JAN 1991
252.201-7000	Contracting Officer's Representative	DEC 1991
252.203-7000	Requirements Relating to Compensation of Former DoD Officials	SEP 2011
252.203-7001	Prohibition On Persons Convicted of Fraud or Other Defense- Contract-Related Felonies	DEC 2008
252.203-7002	Requirement to Inform Employees of Whistleblower Rights	SEP 2013
252.203-7003	Agency Office of the Inspector General	AUG 2019
252.203-7004	Display of Hotline Posters	AUG 2019
252.204-7000	Disclosure Of Information	OCT 2016
252.204-7003	Control Of Government Personnel Work Product	APR 1992
252.204-7004	Antiterrorism Awareness Training for Contractors.	FEB 2019
252.204-7015	Notice of Authorized Disclosure of Information for Litigation Support	MAY 2016
252.204-7018	Prohibition on the Acquisition of Covered Defense Telecommunications Equipment or Services	JAN 2021
252.205-7000	Provision Of Information To Cooperative Agreement Holders	DEC 1991
252.209-7004	Subcontracting With Firms That Are Owned or Controlled By The Government of a Country that is a State Sponsor of Terrorism	MAY 2019
252.223-7008	Prohibition of Hexavalent Chromium	JUN 2013
252.225-7012	Preference For Certain Domestic Commodities	MAR 2022
252.225-7048	Export-Controlled Items	JUN 2013
252.227-7033	Rights in Shop Drawings	APR 1966
252.232-7003	Electronic Submission of Payment Requests and Receiving Reports	DEC 2018
252.232-7010	Levies on Contract Payments	DEC 2006
252.236-7000	Modification Proposals-Price Breakdown	DEC 1991

252.236-7002	Obstruction of Navigable Waterways	DEC 1991
252.242-7006	Accounting System Administration	FEB 2012
252.243-7001	Pricing Of Contract Modifications	DEC 1991
252.243-7002	Requests for Equitable Adjustment	DEC 2012
252.244-7000	Subcontracts for Commercial Items	JAN 2021
252.247-7023	Transportation of Supplies by Sea	FEB 2019

#### CLAUSES INCORPORATED BY FULL TEXT

##### 52.211-10 COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK (APR 1984)

The Contractor shall be required to (a) commence work under this contract within **10** calendar days after the date the Contractor receives the notice to proceed, (b) prosecute the work diligently, and (c) complete the entire work ready for use not later than **540 calendar days after Notice to Proceed (NTP). Any options that are exercised at time of award or exercised up to 90 days after award will NOT extend the Period of Performance.** The time stated for completion shall include final cleanup of the premises.

(End of clause)

##### 52.211-12 LIQUIDATED DAMAGES--CONSTRUCTION (SEP 2000)

(a) If the Contractor fails to complete the work within the time specified in the contract, the Contractor shall pay liquidated damages to the Government in the amount of **\$2,450.00** for each calendar day of delay until the work is completed or accepted.

(b) If the Government terminates the Contractor's right to proceed, liquidated damages will continue to accrue until the work is completed. These liquidated damages are in addition to excess costs of repurchase under the Termination clause.

(End of clause)

##### 52.217-7 OPTION FOR INCREASED QUANTITY--SEPARATELY PRICED LINE ITEM (MAR 1989)

The Government may require the delivery of the numbered line item, identified in the Schedule as an option item, in the quantity and at the price stated in the Schedule. The Contracting Officer may exercise the option by written notice to the Contractor within **90 calendar days after NTP**. Delivery of added items shall continue at the same rate that like items are called for under the contract, unless the parties otherwise agree.

(End of clause)

##### 52.219-14 LIMITATIONS ON SUBCONTRACTING (DEVIATION 2021-O0008) (OCT 2022)

(a) This clause does not apply to the unrestricted portion of a partial set-aside.

(b) Definition. "Similarly situated entity," as used in this clause, means a first-tier subcontractor, including an independent contractor, that—

(1) Has the same small business program status as that which qualified the prime contractor for the award (e.g., for a small business set-aside contract, any small business concern, without regard to its socioeconomic status); and

(2) Is considered small for the size standard under the North American Industry Classification System (NAICS) code the prime contractor assigned to the subcontract.

(c) Applicability. This clause applies only to—

(1) Contracts that have been set aside for any of the small business concerns identified in 19.000(a)(3);

(2) Part or parts of a multiple-award contract that have been set aside for any of the small business concerns identified in 19.000(a)(3);

(3) Contracts that have been awarded on a sole-source basis in accordance with subparts 19.8, 19.13, 19.14, and 19.15;

(4) Orders expected to exceed the simplified acquisition threshold and that are—

(i) Set aside in accordance with subparts 19.8, 19.13, 19.14, or 19.15 under multiple-award contracts, as described in 8.405-5 and 16.505(b)(2)(i)(F); or

(ii) Issued directly to small business concerns under multiple-award contracts as described in 19.504(c)(1)(ii);

(5) Orders, regardless of dollar value, that are—

(i) Set aside in accordance with subparts 19.8, 19.13, 19.14, or 19.15 under multiple-award contracts, as described in 8.405-5 and 16.505(b)(2)(i)(F); or

(ii) Issued directly to concerns that qualify for the programs described in subparts 19.8, 19.13, 19.14, or 19.15 under multiple-award contracts, as described in 19.504(c)(1)(ii); and

(6) Contracts using the HUBZone price evaluation preference to award to a HUBZone small business concern unless the concern waived the evaluation preference.

(d) Independent contractors. An independent contractor shall be considered a subcontractor.

(e) Limitations on subcontracting. By submission of an offer and execution of a contract, the Contractor agrees that in performance of a contract assigned a North American Industry Classification System (NAICS) code for—

(1) Services (except construction), it will not pay more than 50 percent of the amount paid by the Government for contract performance, excluding certain other direct costs and certain work performed outside the United States (see paragraph (e)(1)(i)), to subcontractors that are not similarly situated entities. Any work that a similarly situated entity further subcontracts will count towards the prime contractor's 50 percent subcontract amount that cannot be exceeded. When a contract includes both services and supplies, the 50 percent limitation shall apply only to the service portion of the contract. The following services may be excluded from the 50 percent limitation:

(i) Other direct costs, to the extent they are not the principal purpose of the acquisition and small business concerns do not provide the service. Examples include airline travel, work performed by a transportation or disposal entity under a contract assigned the environmental remediation NAICS code 562910), cloud computing services, or mass media purchases.

(ii) Work performed outside the United States on awards made pursuant to the Foreign Assistance Act of 1961, or work performed outside the United States required to be performed by a local contractor.

(2) Supplies (other than procurement from a nonmanufacturer of such supplies), it will not pay more than 50 percent of the amount paid by the Government for contract performance, excluding the cost of materials, to subcontractors that are not similarly situated entities. Any work that a similarly situated entity further subcontracts will count towards the prime contractor's 50 percent subcontract amount that cannot be exceeded. When a contract includes both supplies and services, the 50 percent limitation shall apply only to the supply portion of the contract;

(3) General construction, it will not pay more than 85 percent of the amount paid by the Government for contract performance, excluding the cost of materials, to subcontractors that are not similarly situated entities. Any work that a similarly situated entity further subcontracts will count towards the prime contractor's 85 percent subcontract amount that cannot be exceeded; or

(4) Construction by special trade contractors, it will not pay more than 75 percent of the amount paid by the Government for contract performance, excluding the cost of materials, to subcontractors that are not similarly situated entities. Any work that a similarly situated entity further subcontracts will count towards the prime contractor's 75 percent subcontract amount that cannot be exceeded.

(f) The Contractor shall comply with the limitations on subcontracting as follows:

(1) For contracts, in accordance with paragraphs (c)(1), (2), (3) and (6) of this clause –

**X By the end of the base term of the contract and then by the end of each subsequent option period; or**

By the end of the performance period for each order issued under the contract.

(2) For orders, in accordance with paragraphs (c)(4) and (5) of this clause, by the end of the performance period for the order.

(g) A joint venture agrees that, in the performance of the contract, the applicable percentage specified in paragraph

(e) of this clause will be performed by the aggregate of the joint venture participants.

(1) In a joint venture comprised of a small business protege and its mentor approved by the Small Business Administration, the small business protege shall perform at least 40 percent of the work performed by the joint venture. Work performed by the small business protege in the joint venture must be more than administrative functions.

(2) In an 8(a) joint venture, the 8(a) participant(s) shall perform at least 40 percent of the work performed by the joint venture. Work performed by the 8(a) participants in the joint venture must be more than administrative functions.

(End of clause)

#### 52.219-28 POST-AWARD SMALL BUSINESS PROGRAM REREPRESENTATION (SEP 2021)

(a) Definitions. As used in this clause--

Long-term contract means a contract of more than five years in duration, including options. However, the term does not include contracts that exceed five years in duration because the period of performance has been extended for a cumulative period not to exceed six months under the clause at 52.217-8, Option to Extend Services, or other appropriate authority.

Small business concern--

(1) Means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding on Government contracts, and qualified as a small business under the criteria in 13 CFR part 121 and the size standard in paragraph (d) of this clause. Such a concern is "not dominant in its field of operation" when it does not exercise a controlling or major influence on a national basis in a kind of business activity in which a number of business concerns are primarily engaged. In determining whether dominance exists, consideration shall be given to all appropriate factors, including volume of business, number of employees, financial resources, competitive status or position, ownership or control of materials, processes, patents, license agreements, facilities, sales territory, and nature of business activity.

(2) Affiliates, as used in this definition, means business concerns, one of whom directly or indirectly controls or has the power to control the others, or a third party or parties control or have the power to control the others. In determining whether affiliation exists, consideration is given to all appropriate factors including common ownership, common management, and contractual relationships. SBA determines affiliation based on the factors set forth at 13 CFR 121.103.

(b) If the Contractor represented that it was any of the small business concerns identified in 19.000(a)(3) prior to award of this contract, the Contractor shall rerepresent its size and socioeconomic status according to paragraph (f) of this clause or, if applicable, paragraph (h) of this clause, upon occurrence of any of the following:

(1) Within 30 days after execution of a novation agreement or within 30 days after modification of the contract to include this clause, if the novation agreement was executed prior to inclusion of this clause in the contract.

(2) Within 30 days after a merger or acquisition that does not require a novation or within 30 days after modification of the contract to include this clause, if the merger or acquisition occurred prior to inclusion of this clause in the contract.

(3) For long-term contracts--

(i) Within 60 to 120 days prior to the end of the fifth year of the contract; and

(ii) Within 60 to 120 days prior to the date specified in the contract for exercising any option thereafter.

(c) If the Contractor represented that it was any of the small business concerns identified in 19.000(a)(3) prior to award of this contract, the Contractor shall rerepresent its size and socioeconomic status according to paragraph (f) of this clause or, if applicable, paragraph (h) of this clause, when the Contracting Officer explicitly requires it for an order issued under a multiple-award contract.

(d) The Contractor shall rerepresent its size status in accordance with the size standard in effect at the time of this rerepresentation that corresponds to the North American Industry Classification System (NAICS) code(s) assigned to this contract. The small business size standard corresponding to this NAICS code(s) can be found at <https://www.sba.gov/document/support--table-size-standards>.

(e) The small business size standard for a Contractor providing an end item that it does not manufacture, process, or produce itself, for a contract other than a construction or service contract, is 500 employees if the acquisition--

(1) Was set aside for small business and has a value above the simplified acquisition threshold;

(2) Used the HUBZone price evaluation preference regardless of dollar value, unless the Contractor waived the price evaluation preference; or

(3) Was an 8(a), HUBZone, service-disabled veteran-owned, economically disadvantaged women-owned, or women-owned small business set-aside or sole-source award regardless of dollar value.

(f) Except as provided in paragraph (h) of this clause, the Contractor shall make the representation(s) required by paragraph (b) and (c) of this clause by validating or updating all its representations in the Representations and Certifications section of the System for Award Management (SAM) and its other data in SAM, as necessary, to ensure that they reflect the Contractor's current status. The Contractor shall notify the contracting office in writing within the timeframes specified in paragraph (b) of this clause, or with its offer for an order (see paragraph (c) of this clause), that the data have been validated or updated, and provide the date of the validation or update.

(g) If the Contractor represented that it was other than a small business concern prior to award of this contract, the Contractor may, but is not required to, take the actions required by paragraphs (f) or (h) of this clause.

(h) If the Contractor does not have representations and certifications in SAM, or does not have a representation in SAM for the NAICS code applicable to this contract, the Contractor is required to complete the following rerepresentation and submit it to the contracting office, along with the contract number and the date on which the rerepresentation was completed:

(1) The Contractor represents that it [ ] is, [ ] is not a small business concern under NAICS Code 237990 assigned to contract number TBD.

(2) [Complete only if the Contractor represented itself as a small business concern in paragraph (h)(1) of this clause.] The Contractor represents that it [ ] is, [ ] is not, a small disadvantaged business concern as defined in 13 CFR 124.1002.

(3) [Complete only if the Contractor represented itself as a small business concern in paragraph (h)(1) of this clause.] The Contractor represents that it [ ] is, [ ] is not a women-owned small business concern.

(4) Women-owned small business (WOSB) concern eligible under the WOSB Program. [Complete only if the Contractor represented itself as a women-owned small business concern in paragraph (h)(3) of this clause.] The Contractor represents that--

(i) It [ ] is, [ ] is not a WOSB concern eligible under the WOSB Program, has provided all the required documents to the WOSB Repository, and no change in circumstances or adverse decisions have been issued that affects its eligibility; and

(ii) It [ ] is, [ ] is not a joint venture that complies with the requirements of 13 CFR part 127, and the representation in paragraph (h)(4)(i) of this clause is accurate for each WOSB concern eligible under the WOSB Program participating in the joint venture.

[The Contractor shall enter the name or names of the WOSB concern eligible under the WOSB Program and other small businesses that are participating in the joint venture: .] Each WOSB concern eligible under the WOSB Program participating in the joint venture shall submit a separate signed copy of the WOSB representation.

(5) Economically disadvantaged women-owned small business (EDWOSB) concern. [Complete only if the Contractor represented itself as a women-owned small business concern eligible under the WOSB Program in (h)(4) of this clause.] The Contractor represents that--

(i) It [ ] is, [ ] is not an EDWOSB concern eligible under the WOSB Program, has provided all the required documents to the WOSB Repository, and no change in circumstances or adverse decisions have been issued that affects its eligibility; and

(ii) It [ ] is, [ ] is not a joint venture that complies with the requirements of 13 CFR part 127, and the representation in paragraph (h)(5)(i) of this clause is accurate for each EDWOSB concern participating in the joint venture. [The Contractor shall enter the name or names of the EDWOSB concern and other small businesses that are participating in the joint venture: .] Each EDWOSB concern participating in the joint venture shall submit a separate signed copy of the EDWOSB representation.

(6) [Complete only if the Contractor represented itself as a small business concern in paragraph (h)(1) of this clause.] The Contractor represents that it [ ] is, [ ] is not a veteran-owned small business concern.

(7) [Complete only if the Contractor represented itself as a veteran-owned small business concern in paragraph (h)(6) of this clause.] The Contractor represents that it [ ] is, [ ] is not a service-disabled veteran-owned small business concern.

(8) [Complete only if the Contractor represented itself as a small business concern in paragraph (h)(1) of this clause.] The Contractor represents that--

(i) It [ ] is, [ ] is not a HUBZone small business concern listed, on the date of this representation, on the List of Qualified HUBZone Small Business Concerns maintained by the Small Business Administration, and no material changes in ownership and control, principal office, or HUBZone employee percentage have occurred since it was certified in accordance with 13 CFR part 126; and

(ii) It [ ] is, [ ] is not a HUBZone joint venture that complies with the requirements of 13 CFR part 126, and the representation in paragraph (h)(8)(i) of this clause is accurate for each HUBZone small business concern participating in the HUBZone joint venture. [The Contractor shall enter the names of each of the HUBZone small business concerns participating in the HUBZone joint venture: .] Each HUBZone small business concern participating in the HUBZone joint venture shall submit a separate signed copy of the HUBZone representation.

[Contractor to sign and date and insert authorized signer's name and title.]

(End of clause)

(a) The offeror's attention is called to the Equal Opportunity clause and the Affirmative Action Compliance Requirements for Construction clause of this solicitation.

(b) The goals for minority and female participation, expressed in percentage terms for the Contractor's aggregate workforce in each trade on all construction work in the covered area, are as follows:

Goals for minority participation for each trade	Goals for female participation for each trade
10.0%	6.9%

These goals are applicable to all the Contractor's construction work performed in the covered area. If the Contractor performs construction work in a geographical area located outside of the covered area, the Contractor shall apply the goals established for the geographical area where the work is actually performed. Goals are published periodically in the Federal Register in notice form, and these notices may be obtained from any Office of Federal Contract Compliance Programs office.

(c) The Contractor's compliance with Executive Order 11246, as amended, and the regulations in 41 CFR 60-4 shall be based on (1) its implementation of the Equal Opportunity clause, (2) specific affirmative action obligations required by the clause entitled "Affirmative Action Compliance Requirements for Construction," and (3) its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade. The Contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor, or from project to project, for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, Executive Order 11246, as amended, and the regulations in 41 CFR 60-4. Compliance with the goals will be measured against the total work hours performed.

(d) The Contractor shall provide written notification to the Deputy Assistant Secretary for Federal Contract Compliance, U.S. Department of Labor, within 10 working days following award of any construction subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the --

- (1) Name, address, and telephone number of the subcontractor;
- (2) Employer's identification number of the subcontractor;
- (3) Estimated dollar amount of the subcontract;
- (4) Estimated starting and completion dates of the subcontract; and
- (5) Geographical area in which the subcontract is to be performed.

(e) As used in this Notice, and in any contract resulting from this solicitation, the "covered area" is **Saline County, Missouri**.

(End of provision)

#### 52.223-9 ESTIMATE OF PERCENTAGE OF RECOVERED MATERIAL CONTENT FOR EPA-DESIGNATED ITEMS (MAY 2008)

(a) Definitions. As used in this clause--



Postconsumer material means a material or finished product that has served its intended use and has been discarded for disposal or recovery, having completed its life as a consumer item. Postconsumer material is a part of the broader category of “recovered material.”

Recovered material means waste materials and by-products recovered or diverted from solid waste, but the term does not include those materials and by-products generated from, and commonly reused within, an original manufacturing process.

(b) The Contractor, on completion of this contract, shall--

(1) Estimate the percentage of the total recovered material content for EPA-designated item(s) delivered and/or used in contract performance, including, if applicable, the percentage of post-consumer material content; and

(2) Submit this estimate to

U.S. Army Corps of Engineers, Kansas City District  
ATTN: Christopher W. Anderson, CECT-NWK- C, Rm 647  
Federal Building  
601 E. 12<sup>th</sup> Street  
Kansas City, Missouri 64106-2896

(End of clause)

#### 52.225-11 BUY AMERICAN --CONSTRUCTION MATERIALS UNDER TRADE AGREEMENTS (DEC 2022) ALTERNATE I (DEC 2022)

(a) Definitions. As used in this clause—

Bahrainian, Mexican, or Omani construction material means a construction material that-

(1) Is wholly the growth, product, or manufacture of Bahrain, Mexico, or Oman; or

(2) In the case of a construction material that consists in whole or in part of materials from another country, has been substantially transformed in Bahrain, Mexico, or Oman into a new and different construction material distinct from the materials from which it was transformed.

Caribbean Basin country construction material means a construction material that—

(1) Is wholly the growth, product, or manufacture of a Caribbean Basin country; or

(2) In the case of a construction material that consists in whole or in part of materials from another country, has been substantially transformed in a Caribbean Basin country into a new and different construction material distinct from the materials from which it was transformed.

Commercially available off-the-shelf (COTS) item—

(1) Means any item of supply (including construction material) that is--

(i) A commercial product (as defined in paragraph (1) of the definition of "commercial product" at Federal Acquisition Regulation (FAR) 2.101);

(ii) Sold in substantial quantities in the commercial marketplace; and

(iii) Offered to the Government, under a contract or subcontract at any tier, without modification, in the same form in which it is sold in the commercial marketplace; and

(2) Does not include bulk cargo, as defined in 46 U.S.C.40102(4), such as agricultural products and petroleum products.

Component means an article, material, or supply incorporated directly into a construction material.

Construction material means an article, material, or supply brought to the construction site by the Contractor or subcontractor for incorporation into the building or work. The term also includes an item brought to the site preassembled from articles, materials, or supplies. However, emergency life safety systems, such as emergency lighting, fire alarm, and audio evacuation systems, that are discrete systems incorporated into a public building or work and that are produced as complete systems, are evaluated as a single and distinct construction material regardless of when or how the individual parts or components of those systems are delivered to the construction site. Materials purchased directly by the Government are supplies, not construction material.

Cost of components means—

(1) For components purchased by the Contractor, the acquisition cost, including transportation costs to the place of incorporation into the construction material (whether or not such costs are paid to a domestic firm), and any applicable duty (whether or not a duty-free entry certificate is issued); or

(2) For components manufactured by the Contractor, all costs associated with the manufacture of the component, including transportation costs as described in paragraph (1) of this definition, plus allocable overhead costs, but excluding profit. Cost of components does not include any costs associated with the manufacture of the construction material.

Critical component means a component that is mined, produced, or manufactured in the United States and deemed critical to the U.S. supply chain. The list of critical components is at FAR 25.105.

Critical item means a domestic construction material or domestic end product that is deemed critical to U.S. supply chain resiliency. The list of critical items is at FAR 25.105.

Designated country means any of the following countries:

(1) A World Trade Organization Government Procurement Agreement (WTO GPA) country (Armenia, Aruba, Australia, Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hong Kong, Hungary, Iceland, Ireland, Israel, Italy, Japan, Korea (Republic of), Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Moldova, Montenegro, Netherlands, New Zealand, Norway, Poland, Portugal, Romania, Singapore, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Taiwan, Ukraine, or United Kingdom);

(2) A Free Trade Agreement (FTA) country (Australia, Bahrain, Chile, Colombia, Costa Rica, Dominican Republic, El Salvador, Guatemala, Honduras, Korea (Republic of), Mexico, Morocco, Nicaragua, Oman, Panama, Peru, or Singapore);

(3) A least developed country (Afghanistan, Angola, Bangladesh, Benin, Bhutan, Burkina Faso, Burundi, Cambodia, Central African Republic, Chad, Comoros, Democratic Republic of Congo, Djibouti, Equatorial Guinea, Eritrea, Ethiopia, Gambia, Guinea, Guinea-Bissau, Haiti, Kiribati, Laos, Lesotho, Liberia, Madagascar, Malawi, Mali, Mauritania, Mozambique, Nepal, Niger, Rwanda, Samoa, Sao Tome and Principe, Senegal, Sierra Leone, Solomon Islands, Somalia, South Sudan, Tanzania, Timor-Leste, Togo, Tuvalu, Uganda, Vanuatu, Yemen, or Zambia); or

(4) A Caribbean Basin country (Antigua and Barbuda, Aruba, Bahamas, Barbados, Belize, Bonaire, British Virgin Islands, Curacao, Dominica, Grenada, Guyana, Haiti, Jamaica, Montserrat, Saba, St. Kitts and Nevis, St. Lucia, St. Vincent and the Grenadines, Sint Eustatius, Sint Maarten, or Trinidad and Tobago).

Designated country construction material means a construction material that is a WTO GPA country construction material, an FTA country construction material, a least developed country construction material, or a Caribbean Basin country construction material.

Domestic construction material means—

(1) For construction material that does not consist wholly or predominantly of iron or steel or a combination of both-

(i) An unmanufactured construction material mined or produced in the United States; or

(ii) A construction material manufactured in the United States, if—

(A) The cost of its components mined, produced, or manufactured in the United States exceeds 60 percent of the cost of all its components, except that the percentage will be 65 percent for items delivered in calendar years 2024 through 2028 and 75 percent for items delivered starting in calendar year 2029. Components of foreign origin of the same class or kind for which nonavailability determinations have been made are treated as domestic. Components of unknown origin are treated as foreign; or

(B) The construction material is a COTS item; or

(2) For construction material that consists wholly or predominantly of iron or steel or a combination of both, a construction material manufactured in the United States if the cost of foreign iron and steel constitutes less than 5 percent of the cost of all components used in such construction material. The cost of foreign iron and steel includes but is not limited to the cost of foreign iron or steel mill products (such as bar, billet, slab, wire, plate, or sheet), castings, or forgings utilized in the manufacture of the construction material and a good faith estimate of the cost of all foreign iron or steel components excluding COTS fasteners. Iron or steel components of unknown origin are treated as foreign. If the construction material contains multiple components, the cost of all the materials used in such construction material is calculated in accordance with the definition of "cost of components".

Fastener means a hardware device that mechanically joins or affixes two or more objects together. Examples of fasteners are nuts, bolts, pins, rivets, nails, clips, and screws.

Foreign construction material means a construction material other than a domestic construction material.

Foreign iron and steel means iron or steel products not produced in the United States. Produced in the United States means that all manufacturing processes of the iron or steel must take place in the United States, from the initial melting stage through the application of coatings, except metallurgical processes involving refinement of steel additives. The origin of the elements of the iron or steel is not relevant to the determination of whether it is domestic or foreign.

Free Trade Agreement country construction material means a construction material that-

(1) Is wholly the growth, product, or manufacture of a Free Trade Agreement (FTA) country; or

(2) In the case of a construction material that consists in whole or in part of materials from another country, has been substantially transformed in a FTA country into a new and different construction material distinct from the materials from which it was transformed.

Least developed country construction material means a construction material that-

(1) Is wholly the growth, product, or manufacture of a least developed country; or

(2) In the case of a construction material that consists in whole or in part of materials from another country, has been substantially transformed in a least developed country into a new and different construction material distinct from the materials from which it was transformed.

Predominantly of iron or steel or a combination of both means that the cost of the iron and steel content exceeds 50 percent of the total cost of all its components. The cost of iron and steel is the cost of the iron or steel mill products (such as bar, billet, slab, wire, plate, or sheet), castings, or forgings utilized in the manufacture of the product and a good faith estimate of the cost of iron or steel components excluding COTS fasteners.

Steel means an alloy that includes at least 50 percent iron, between 0.02 and 2 percent carbon, and may include other elements.

United States means the 50 States, the District of Columbia, and outlying areas.

WTO GPA country construction material means a construction material that-

(1) Is wholly the growth, product, or manufacture of a WTO GPA country; or

(2) In the case of a construction material that consists in whole or in part of materials from another country, has been substantially transformed in a WTO GPA country into a new and different construction material distinct from the materials from which it was transformed.

(b) Construction materials.

(1) This clause implements 41 U.S.C. chapter 83, Buy American, by providing a preference for domestic construction material. In accordance with 41 U.S.C. 1907, the domestic content test of the Buy American statute is waived for construction material that is a COTS item, except that for construction material that consists wholly or predominantly of iron or steel or a combination of both, the domestic content test is applied only to the iron and steel content of the construction material, excluding COTS fasteners. (See 12.505(a)(2)). In addition, the Contracting Officer has determined that the WTO GPA and all the Free Trade Agreements except the Bahrain FTA, United States-Mexico-Canada Agreement, and the Oman FTA apply to this acquisition. Therefore, the Buy American statute restrictions are waived for designated country construction materials other than Bahrainian, Mexican, or Omani construction materials.

(2) The Contractor shall use only domestic or designated country construction material other than Bahrainian, Mexican, or Omani construction material in performing this contract, except as provided in paragraphs (b)(3) and (b)(4) of this clause.

(3) The requirement in paragraph (b)(2) of this clause does not apply to information technology that is a commercial product or to the construction materials or components listed by the Government as follows:

N/A

(4) The Contracting Officer may add other foreign construction material to the list in paragraph (b)(3) of this clause if the Government determines that-

(i) The cost of domestic construction material would be unreasonable.

(A) For domestic construction material that is not a critical item or does not contain critical components.

(1) The cost of a particular domestic construction material subject to the restrictions of the Buy American statute is unreasonable when the cost of such material exceeds the cost of foreign material by more than 20 percent;

(2) For construction material that is not a COTS item and does not consist wholly or predominantly of iron or steel or a combination of both, if the cost of a particular domestic construction material is determined to be unreasonable or there is no domestic offer received, and the low offer is for foreign construction material that does not exceed 55 percent domestic content, the Contracting Officer will treat the lowest offer of foreign construction material that is manufactured in the United States and exceeds 55 percent domestic content as a domestic offer and determine whether the cost of that offer is unreasonable by applying the evaluation factor listed in paragraph (b)(4)(i)(A)(1) of this clause.

(3) The procedures in paragraph (b)(4)(i)(A)(2) of this clause will no longer apply as of January 1, 2030.

(B) For domestic construction material that is a critical item or contains critical components.

(1) The cost of a particular domestic construction material that is a critical item or contains critical components, subject to the requirements of the Buy American statute, is unreasonable when the cost of such material exceeds the cost of foreign material by more than 20 percent plus the additional preference factor identified for the critical item or construction material containing critical components listed at FAR 25.105.

(2) For construction material that does not consist wholly or predominantly of iron or steel or a combination of both, if the cost of a particular domestic construction material is determined to be unreasonable or there is no domestic offer received, and the low offer is for foreign construction material that does not exceed 55 percent domestic content, the Contracting Officer will treat the lowest offer of foreign construction material that is manufactured in the United States and exceeds 55 percent domestic content as a domestic offer, and determine whether the cost of that offer is unreasonable by applying the evaluation factor listed in paragraph (b)(4)(i)(B)(1) of this clause.

(3) The procedures in paragraph (b)(4)(i)(B)(2) of this clause will no longer apply as of January 1, 2030.

(ii) The application of the restriction of the Buy American Act to a particular construction material would be impracticable or inconsistent with the public interest; or

(iii) The construction material is not mined, produced, or manufactured in the United States in sufficient and reasonably available commercial quantities of a satisfactory quality.

(c) Request for determination of inapplicability of the Buy American statute. (1) (i) Any Contractor request to use foreign construction material in accordance with paragraph (b)(4) of this clause shall include adequate information for Government evaluation of the request, including-

(A) A description of the foreign and domestic construction materials;

(B) Unit of measure;

(C) Quantity;

(D) Price;

(E) Time of delivery or availability;

(F) Location of the construction project;

(G) Name and address of the proposed supplier; and

(H) A detailed justification of the reason for use of foreign construction materials cited in accordance with paragraph (b)(3) of this clause.

(ii) A request based on unreasonable cost shall include a reasonable survey of the market and a completed price comparison table in the format in paragraph (d) of this clause.

(iii) The price of construction material shall include all delivery costs to the construction site and any applicable duty (whether or not a duty-free certificate may be issued).

(iv) Any Contractor request for a determination submitted after contract award shall explain why the Contractor could not reasonably foresee the need for such determination and could not have requested the determination before contract award. If the Contractor does not submit a satisfactory explanation, the Contracting Officer need not make a determination.

(2) If the Government determines after contract award that an exception to the Buy American statute applies and the Contracting Officer and the Contractor negotiate adequate consideration, the Contracting Officer will modify the contract to allow use of the foreign construction material. However, when the basis for the exception is the unreasonable price of a domestic construction material, adequate consideration is not less than the differential established in paragraph (b)(4)(i) of this clause.

(3) Unless the Government determines that an exception to the Buy American statute applies, use of foreign construction material is noncompliant with the Buy American statute.

(d) Data. To permit evaluation of requests under paragraph (c) of this clause based on unreasonable cost, the Contractor shall include the following information and any applicable supporting data based on the survey of suppliers:

Foreign and Domestic Construction Materials Price Comparison

Construction material description	Unit of measure	Quantity	Price (dollars) *
Item 1:			
Foreign construction material....	.....	.....	.....
Domestic construction material...	.....	.....	.....
Item 2:			
Foreign construction material....	.....	.....	.....
Domestic construction material...	.....	.....	.....

[\* Include all delivery costs to the construction site and any applicable duty (whether or not a duty-free entry certificate is issued)].

[List name, address, telephone number, and contact for suppliers surveyed. Attach copy of response; if oral, attach summary.]

[Include other applicable supporting information.]

(End of clause)

#### 52.236-4 PHYSICAL DATA (APR 1984)

Data and information furnished or referred to below is for the Contractor's information. The Government shall not be responsible for any interpretation of or conclusion drawn from the data or information by the Contractor.

(a) The indications of physical conditions on the drawings and in the specifications are the result of site investigations.

(b) Weather conditions: Each bidder should satisfy himself/herself as to hazards likely to arise from weather conditions before submitting his/her bid. Complete weather records and reports may be obtained from the local National Weather Service Office.

(c) Transportation facilities: Each bidder should obtain necessary data as to access highway and railroad facilities before submitting his/her bid. The unavailability of transportation facilities shall not become a basis for claims for damages or extension of time for completion of work.

(End of clause)

#### 52.252-2 CLAUSES INCORPORATED BY REFERENCE (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):

Federal Acquisition Regulations System (FAR)  
<https://www.acquisition.gov/>

Defense Federal Acquisition Regulation Supplement (DFARS)  
<https://www.acq.osd.mil/dpap/dars/dfarspgi/current/>

(End of clause)

#### 52.252-6 AUTHORIZED DEVIATIONS IN CLAUSES (NOV 2020)

(a) The use in this solicitation or contract of any Federal Acquisition Regulation (48 CFR Chapter 1) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the date of the clause.

(b) The use in this solicitation or contract of any DFARS (48 CFR 2) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the name of the regulation.

(End of clause)

#### 252.236-7001 CONTRACT DRAWINGS AND SPECIFICATIONS (AUG 2000)

(a) The Government will provide to the Contractor, without charge, one set of contract drawings and specifications, except publications incorporated into the technical provisions by reference, in electronic or paper media as chosen by the Contracting Officer.

(b) The Contractor shall--

- (1) Check all drawings furnished immediately upon receipt;
- (2) Compare all drawings and verify the figures before laying out the work;
- (3) Promptly notify the Contracting Officer of any discrepancies;
- (4) Be responsible for any errors that might have been avoided by complying with this paragraph (b); and

(5) Reproduce and print contract drawings and specifications as needed.

(c) In general--

(1) Large-scale drawings shall govern small-scale drawings; and

(2) The Contractor shall follow figures marked on drawings in preference to scale measurements.

(d) Omissions from the drawings or specifications or the misdescription of details of work that are manifestly necessary to carry out the intent of the drawings and specifications, or that are customarily performed, shall not relieve the Contractor from performing such omitted or misdescribed details of the work. The Contractor shall perform such details as if fully and correctly set forth and described in the drawings and specifications.

(e) The work shall conform to the specifications and the contract drawings identified on the following index of drawings:

<u>Title</u>	<u>File</u>	<u>Drawing No.</u>
Cover Sheet	General	G-001
Index and Area Map	General	G-002
General Notes and Legend	General	G-003
MO Riverbank Stabilization Structure Layout	General	G-004
Hydrograph	General	G-005
Overall Stie Plan	Civil	C-100
Chute Entrance Site Access	Civil	C-101
Mid Chute Site Access	Civil	C-102
Chute Entrance Site Plan	Civil	CS101
Mid Chute Site Plan	Civil	CS102
Control Structure Plan and Profile	Civil	CS103
Details	Civil	CS501
Chute Ent: Left Bank- STA 0+00 TO STA 5+00	Cross Sections	CS301
Chute Ent: Left Bank- STA 6+00 TO STA 10+00	Cross Sections	CS302
Chute Ent: Left Bank- STA 11+00 TO STA 16+00	Cross Sections	CS303
Chute Ent: Left Bank- STA 17+00 TO STA 22+00	Cross Sections	CS304
Chute Ent: Left Bank- STA 23+00 TO STA 26+91	Cross Sections	CS305
Chute Ent: Right Bank- STA 0+75 TO STA 3+00	Cross Sections	CS306
Chute Ent: Right Bank- STA 4+00 TO STA 5+87	Cross Sections	CS307
Mid Chute LT- STA 0+00 TO STA 3+96	Cross Sections	CS308
Mid Chute: Left Bank- STA 0+00 TO STA 5+00	Cross Sections	0+00.00
Mid Chute: Left Bank- STA 6+00 TO STA 9+80	Cross Sections	6+00.00
Mid Chute Old Exit Rt- STA 0+00 TO STA 2+31	Cross Sections	0+00.00

(End of clause)



Section 00 73 00 - Supplementary Conditions

WAGE RATES

Applicable Davis Bacon Act Wage Determination, MO20230001; Construction: Heavy; Modification: #5; Published Date: April 14, 2023. A hard copy will be provided upon request. Link provided:

<https://sam.gov/wage-determination/MO20230001/5>

**This page was intentionally left blank for duplex printing.**

SECTION TABLE OF CONTENTS

DIVISION 01 - GENERAL REQUIREMENTS

SECTION 01 11 00

SUMMARY OF WORK

**08/15, CHG 2: 08/21**

PART 1 GENERAL

1.1 WORK COVERED BY CONTRACT DOCUMENTS

1.1.1 Project Description

1.1.2 Location

1.2 LOCATION OF UNDERGROUND UTILITIES

1.2.1 Notification Prior to Excavation

PART 2 PRODUCTS

PART 3 EXECUTION

-- End of Section Table of Contents --

SECTION 01 11 00

SUMMARY OF WORK  
08/15, CHG 2: 08/21

PART 1 GENERAL

1.1 WORK COVERED BY CONTRACT DOCUMENTS

1.1.1 Project Description

The work includes the work described here and incidental related work.

The contractor shall construct stone fill revetment, control structure extensions, dike repairs and raises, and bank paving structures using stone fill for the Jameson Island Chute located at Missouri River mile 211. Incidental work may include clearing and grubbing, transport and placement of new stone, excavation, and grading. Work must be performed by floating plant and land based equipment. No land access to the work sites is available via public roads, which will require access by floating plant. Work sites are difficult to access with floating plant at most river stages and stage stone placement limitations in this contract will likely require land based equipment delivered to site by floating plant and supplied with material by floating plant.

The below table summarizes the contract line items for bid and provides estimated quantities of stone for each line item. Stone fill quantities are provided in short tons, 2000 lbs. Two stone gradations are required, and each feature gradation work is provided in the contract drawings and or specifications.

All quantities shown are approximate and are being furnished for information only. This is a proposal contract price for work to be performed. This a lump sum contract, the estimated quantities provided herein are approximate only; and are exclusive of any dispersion, settlement, compaction, consolidation, erosion by currents or ice or other losses of material that may occur during construction. It is the contractor's responsibility to thoroughly investigate the site of the work to determine and control the conditions under which the material is placed and all other factors associated with the work; and form his own conclusions regarding the total effort necessary to construct the work complete in accordance with the contract requirements. No adjustment will be made to the contract price solely related to the approximate estimated quantities provided. Exact location of features, and/or station ranges, may vary from what is shown in the drawings and table below due to changes in the river bed and banks since contract development.

CLIN		Estimated Tons
0001	<u>Chute Entrance Rehabilitation</u> Construct Chute Ent: Right Bank from STA 0+00 to 5+85 Construct Chute Ent: Left Bank from STA 0+00 to 26+90 Construct Chute Entrance Control Structure Extension	37,000

CLIN		Estimated Tons
0002	<u>Mid Chute Rehabilitation</u> Construct Mid Chute Exit: RT from STA 5+00 to 7+36 Construct Mid Chute: Left Bank from STA 0+00 to 9+80 Construct Mid Chute Stone Overlay	18,000
0003 OPTION	Construct Chute Ent: Left Bank from STA 26+83 to 32+25 Construct Mid Chute Exit: LT from STA 0+00 to 3+96 Construct Mid Chute Exit: RT from STA 0+00 to 5+00	15,000
0004 OPTION	Raise Dikes 225.0 and 224.7	4,000

#### 1.1.2 Location

The work is located in Saline County, Missouri on the right descending bank on the Missouri River between river miles 211 and 214, approximately as indicated. The exact location will be shown by the Contracting Officer.

#### 1.2 LOCATION OF UNDERGROUND UTILITIES

For work requiring excavation, the Contractor is required to locate potential underground utilities prior to initiating construction activities. If utilities are encountered during construction, the contractor shall notify the Corps and stop work in the immediate area until the problem is resolved. There are no known utilities at this site.

##### 1.2.1 Notification Prior to Excavation

Notify the Contracting Officer at least 15 calendar days prior to starting excavation work.

#### PART 2 PRODUCTS

Not used.

#### PART 3 EXECUTION

Not used.

-- End of Section --

**This page was intentionally left blank for duplex printing.**

SECTION TABLE OF CONTENTS

DIVISION 01 - GENERAL REQUIREMENTS

SECTION 01 30 00

ADMINISTRATIVE REQUIREMENTS

11/20, CHG 1: 08/21

PART 1 GENERAL

- 1.1 REFERENCES
- 1.2 SCHEDULE OF WORK
- 1.3 WORK HOURS
- 1.4 UTILITIES
  - 1.4.1 Unavailability of Utilities
  - 1.4.2 Encountering Existing Underground Utilities
- 1.5 MINIMUM INSURANCE REQUIREMENTS
- 1.6 SUPERVISION
  - 1.6.1 Superintendent Qualifications
  - 1.6.2 Minimum Communication Requirements
  - 1.6.3 Duties
  - 1.6.4 Non-Compliance Actions
- 1.7 PRECONSTRUCTION CONFERENCE
  - 1.7.1 Attendees
- 1.8 PARTNERING
  - 1.8.1 Team-Led (Informal) Partnering
- 1.9 TIME EXTENSIONS FOR UNUSUALLY SEVERE WEATHER
- 1.10 COORDINATION BETWEEN CONTRACTORS
- 1.11 SUPERINTENDENCE OF SUBCONTRACTORS
- 1.12 ELECTRONIC MAIL (E-MAIL) ADDRESS
- 1.13 MOBILIZATION
- 1.14 PAYMENTS TO CONTRACTOR
- 1.15 PERFORMANCE OF WORK BY CONTRACTOR
- 1.16 PROFIT
- 1.17 VETERANS EMPLOYMENT EMPHASIS FOR U.S. ARMY CORPS OF ENGINEERS
- CONTRACTS
- 1.18 LAYOUT OF WORK
- 1.19 DAMAGE TO WORK
- 1.20 CONSTRUCTION EQUIPMENT OWNERSHIP AND OPERATING EXPENSE SCHEDULE
- 1.21 SAFETY REQUIREMENTS
  - 1.21.1 Compliance with Occupational Safety and Health Act (OSHA)
- 1.22 SIGNAL LIGHTS
- 1.23 WORK ADJACENT TO ROADS AND HIGHWAYS
- 1.24 ENVIRONMENTAL REQUIREMENTS
  - 1.24.1 Cultural Resources
  - 1.24.2 Water Quality
    - 1.24.2.1 Spill Control Plan
    - 1.24.2.2 Spill Response
    - 1.24.2.3 Clean Water Act Regulations and Requirements
  - 1.24.3 National Environmental Policy Act Requirements
- 1.25 HAZARDOUS SUBSTANCES
  - 1.25.1 Unexpected Hazardous Substances
- 1.26 FIELD OFFICE OVERHEAD (FOOH) ACCOUNTING METHOD
  - 1.26.1 FIELD OFFICE OVERHEAD PER DIEM RATE

1.26.2 FIELD OFFICE OVERHEAD PERCENTAGE MARKUP

PART 2 PRODUCTS

PART 3 EXECUTION

-- End of Section Table of Contents --



SECTION 01 30 00

ADMINISTRATIVE REQUIREMENTS  
11/20, CHG 1: 08/21

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

U.S. ARMY CORPS OF ENGINEERS (USACE)

EM 385-1-1 (2014) Safety -- Safety and Health  
Requirements Manual

1.2 SCHEDULE OF WORK

The Contractor's attention is directed to CONTRACT CLAUSE titled "Schedule for Construction Contracts," wherein if, in the opinion of the Contracting Officer, the Contractor falls behind the approved schedule, the Contractor shall take steps necessary to improve its progress, including those that may be required by the Contracting Officer.

1.3 WORK HOURS

Working hours for this project will be limited to Monday through Friday. Work will not be permitted on weekends and Federal holidays. In unusual circumstances, authorization for weekend or holiday work may be requested from the Contracting Officer; these instances must be coordinated well in advance, in writing. Short duration work which will disrupt normal operations or traffic flow must be scheduled at least 14 working days in advance with the Contracting officer and may require schedule changes to ensure that safety is maintained.

1.4 UTILITIES

1.4.1 Unavailability of Utilities

The responsibility shall be upon the Contractor to provide and maintain at his own expense, adequate utilities for his use for construction and domestic consumption, and to install and maintain necessary connections and lines for same, but only at such locations and in such manner as may be approved by the Contracting Officer. Before final acceptance, temporary connections and lines installed by the Contractor shall be removed in a manner satisfactory to the Contracting Officer.

1.4.2 Encountering Existing Underground Utilities

During any excavation activity, existing underground utilities encountered shall be immediately reported to the Contracting Officer.

Within 48 hours of encountering underground utilities, the Contractor shall submit to Contracting Officer a marked-up copy of contract drawing that

best represents the location, general description and approximate depth of the utilities below finished grade.

Also, the Contractor shall incorporate the above information in required marked-up full scale contract drawing indicating as-built conditions in accordance with all contract provisions pertaining to "As-Built Drawings."

#### 1.5 MINIMUM INSURANCE REQUIREMENTS

Provide the minimum insurance coverage required by FAR 28.307-2 Liability, during the entire period of performance under this contract. Provide other insurance coverage as required by laws.

#### 1.6 SUPERVISION

##### 1.6.1 Superintendent Qualifications

Provide project superintendent with a minimum of 10 years experience in construction with at least 3 of those years as a superintendent on projects similar in size and complexity. The individual must be familiar with the requirements of EM 385-1-1 and have experience in the areas of hazard identification and safety compliance. The individual must be capable of interpreting a critical path schedule and construction drawings. The qualification requirements for the alternate superintendent are the same as for the project superintendent. The Contracting Officer may request proof of the superintendent's qualifications at any point in the project if the performance of the superintendent is in question.

##### 1.6.2 Minimum Communication Requirements

Have at least one qualified superintendent, or competent alternate, capable of reading, writing, and conversing fluently in the English language, on the job-site at all times during the performance of Contract work. In addition, if a Quality Control (QC) representative is required on the Contract, then that individual must also have fluent English communication skills.

##### 1.6.3 Duties

The project superintendent is primarily responsible for managing subcontractors and coordinating day-to-day production and schedule adherence on the project. The superintendent is required to attend partnering meetings, and quality control meetings. The superintendent or qualified alternative must be on-site at all times during the performance of this contract until the work is completed and accepted.

##### 1.6.4 Non-Compliance Actions

The Project Superintendent is subject to removal by the Contracting Officer for non-compliance with requirements specified in the contract and for failure to manage the project to ensure timely completion. Furthermore, the Contracting Officer may issue an order stopping all or part of the work until satisfactory corrective action has been taken. No part of the time lost due to such stop orders is acceptable as the subject of claim for extension of time for excess costs or damages by the Contractor.

#### 1.7 PRECONSTRUCTION CONFERENCE

Immediately after award,

prior to commencing any work at the site, coordinate with the Contracting Officer a time and place to meet for the Preconstruction Conference. The conference must take place within 35 calendar days after award of the contract, but prior to commencement of any work at the site. The purpose of this conference is to discuss and develop a mutual understanding of the administrative requirements of the Contract including but not limited to: daily reporting, invoicing, value engineering, safety, base-access, outage requests, hot work permits, schedule requirements, quality control, schedule of prices or earned value report, shop drawings, submittals, cybersecurity, prosecution of the work, government acceptance, final inspections and contract close-out. Contractor must present and discuss their basic approach to scheduling the construction work and any required phasing.

#### 1.7.1 Attendees

Contractor attendees must include the Project Manager, Superintendent, Site Safety and Health Officer (SSHO), Quality Control Manager and major subcontractors.

#### 1.8 PARTNERING

To most effectively accomplish this Contract, the Contractor and Government must form a cohesive partnership with the common goal of drawing on the strength of each organization in an effort to achieve a successful project without safety mishaps, conforming to the Contract, within budget and on schedule. The partnering team must consist of personnel from both the Government and Contractor including project level and corporate level leadership positions. Key Personnel from the Contractor, key subcontractors and designers are required to participate in the Partnering process.

##### 1.8.1 Team-Led (Informal) Partnering

- a. The Contracting Officer will coordinate the initial Team-Led (Informal) Partnering Session with key personnel of the project team, including Contractor and Government personnel. The Partnering Session will be co-led by the Government Construction Manager and Contractor's Project Manager.
- b. The Initial Team-led Partnering session may be held concurrently with the Pre-Construction meeting. Partnering sessions will be held at a location mutually agreed to by the Contracting Officer and the Contractor.
- c. The Initial Team-Led Partnering Session will be conducted and facilitated using electronic media (a video and accompanying forms) provided by Contracting Officer.
- d. The Partners will determine the frequency of the follow-on sessions.
- e. Participants will bear their own costs for meals, lodging and transportation associated with Partnering.

#### 1.9 TIME EXTENSIONS FOR UNUSUALLY SEVERE WEATHER

- a. This provision specifies the procedure for determination of time extensions for unusually severe weather in accordance with the CONTRACT CLAUSE 52.249-10 Default (Fixed Price Construction) in Section 00 72 00

of this Contract. In order for the Contracting Officer to award a time extension under this clause, the following conditions must be satisfied:

- (1) The weather experienced at the project site during the contract period must be found to be unusually severe, that is, more severe than the adverse weather anticipated for the project location during any given month.
- (2) The unusually severe weather must actually cause a delay to the completion of the project. The delay must be beyond the control and without the fault or negligence of the Contractor.

- b. The following schedule of monthly anticipated adverse weather delays is based on National Oceanic and Atmospheric Administration (NOAA) or similar data for the project location and will constitute the base line for monthly weather time evaluations. The project schedule shall include these anticipated adverse weather delay days in the durations of all weather-sensitive activities throughout the original contract duration. This shall be accomplished by creating a "weather calendar" within the project schedule and then assigning this calendar to each weather-sensitive activity. This weather calendar shall contain the applicable number of anticipated adverse weather delay days as non-work days, distributed evenly throughout each month of the original contract duration. After the original contract completion date, the weather calendar shall not contain any anticipated adverse weather delay days.

MONTHLY ANTICIPATED ADVERSE WEATHER DELAY											
WORK DAYS BASED ON (5) DAY WORK WEEK*											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
(22)	(20)	(5)	(6)	(6)	(4)	(4)	(4)	(5)	(4)	(5)	(22)

- c. Upon acknowledgment of the Notice to Proceed (NTP) and continuing until the work is complete, the Contractor shall record on the daily CQC report, the occurrence of adverse weather and resultant impact to normally scheduled work. Actual adverse weather delay days must prevent work on critical path activities for 50 percent or more of the Contractor's scheduled work day. Within ten days of the following month, the Contractor shall provide in writing a list of their proposed dates of the actual adverse weather delay days for each month. The number of actual adverse weather delay days shall include days impacted by actual adverse weather (even if adverse weather occurred in previous month), be calculated chronologically from the first to the last day of each month, and be recorded as full days. If the number of actual adverse weather delay days exceeds the number of days anticipated in paragraph (b), above, the Contracting Officer will convert any qualifying delays to calendar days and issue a modification in accordance with the Contract Clause entitled "Default (Fixed Price Construction)". After the original contract completion date has passed, adverse weather that causes delay to the completion of the project will be granted day-for-day without deducting anticipated adverse weather delay days and will be converted from work days to calendar days.

\* Monthly anticipated weather delay days shall be adjusted

proportionally if work is scheduled to be performed in a work week with greater than or less than a five-day work week. The following formula shall be used to adjust the monthly anticipated weather delays:

Adjusted monthly anticipated weather delays = **A** multiplied by (**B** divided by **C**); where

**A** = The monthly anticipated adverse weather delay for a particular month based on a five-day work week.

**B** = The actual average number of days work is scheduled to be performed in a work week during that particular month.

**C** = The number five (5).

for example, If the monthly anticipated adverse weather delay for January based on a five day work week is 10 days, but the Contractor actually scheduled an average of a six-day work week for that month, the monthly anticipated weather delay would be adjusted by applying the above formula as follows:  $10 \times (6/5) = 12$  days.

\* Monthly anticipated weather delay days shall also be adjusted proportionally for those situations involving a fractional part of a month. Some examples are the month Notice to Proceed is acknowledged and the month of the original contract completion date. The following formula shall be used to adjust the monthly anticipated weather delays:

Adjusted monthly anticipated weather delays = **D** multiplied by (**E** divided by **F**); where

**D** = The monthly anticipated adverse weather delay for a particular month.

**E** = The number of calendar days during that fractional part of a particular month.

**F** = The number of calendar days in that particular month.

for example, The monthly anticipated adverse weather delay for the particular month is 9 days. The original contract completion date is on the twentieth (20th) day of a thirty (30) day month. The monthly anticipated adverse weather delay would be adjusted by applying the above formula as follows:

$9 \times (20/30) = 6$  days.

#### 1.10 COORDINATION BETWEEN CONTRACTORS

See CONTRACT CLAUSE 52.236-8 Other Contracts, in Section 00 72 00 of this contract. Construction work on another contract is underway concurrently with this Contract. The obligations of the Contractor under this Contract will include jointly planning and scheduling the work, on a cooperative basis, with the other Contractor involved in order to minimize delays and interferences.

#### 1.11 SUPERINTENDENCE OF SUBCONTRACTORS

- a. The Contractor shall be required to furnish the following:

- (1) If more than 50% and less than 70% of the value of the contract work is subcontracted, one superintendent shall be provided at the site and on the Contractor's payroll to be responsible for coordinating, directing, inspecting and expediting the subcontract work. This superintendent is an additional person above that required under the FAR Contract Clause 52.236-6.
- (2) If 70% or more of the value of the work is subcontracted, the Contractor shall be required to furnish two such superintendents to be responsible for coordinating, directing, inspecting and expediting the subcontract work. These superintendents are above that required by FAR Contract Clause 52.236-6.

- b. If the Contracting Officer, at any time after 50% of the subcontracted work has been completed, finds that satisfactory progress is being made, he may waive all or part of the above requirement for additional superintendence subject to the right of the Contracting Officer to reinstate such requirement if at any time during the progress of the remaining work he finds that satisfactory progress is not being made.

#### 1.12 ELECTRONIC MAIL (E-MAIL) ADDRESS

Establish and maintain electronic mail (e-mail) capability along with the capability to open various electronic attachments as text files, pdf files, and other similar formats. Within 10 days after contract award, provide the Contracting Officer a single (only one) e-mail address for electronic communications from the Contracting Officer related to this contract including, but not limited to contract documents, invoice information, request for proposals, and other correspondence. The Contracting Officer may also use email to notify the Contractor of base access conditions when emergency conditions warrant, such as hurricanes or terrorist threats. Multiple email addresses are not allowed.

It is the Contractor's responsibility to make timely distribution of all Contracting Officer initiated e-mail with its own organization including field office(s). Promptly notify the Contracting Officer, in writing, of any changes to this email address.

#### 1.13 MOBILIZATION

Contractor shall mobilize to the jobsite within 60 calendar days after contract award or as determined by the contracting officer. Mobilize is defined as having equipment AND having a physical presence of at least one person from the contractor's team on the jobsite.

#### 1.14 PAYMENTS TO CONTRACTOR

The following is an example of a Contractor's release of claims clause required to comply with the final payment provisions of paragraph (h) of the CONTRACT CLAUSE 52.232-5 Payments Under Fixed-Price Construction Contracts in Section 00 72 00 of this contract:

##### RELEASE OF CLAIMS

The undersigned Contractor, under Contract Number, {\_\_\_\_\_} dated {\_\_\_\_\_} between the United States of America and said Contractor for {Contract Title/description} at \_\_\_\_\_ hereby releases the United States, its officers, agents and employees from any and all claims arising under or by virtue of said contract, any modification or

change thereof, or rights or remedies (including, but not limited to, additional costs, interest, penalties, attorneys' fees or consultants' fees) provided by statute, regulation or other law as they may relate to the enforcement of rights originally arising under the referenced contract.

\_\_\_\_\_  
(Date) Contractor's name exactly as shown on the face of the Contract

By: \_\_\_\_\_

Title: \_\_\_\_\_

1.15 PERFORMANCE OF WORK BY CONTRACTOR

Bidder's attention is directed to FAR Clause 52.236-1. The successful bidder will be required to furnish the Contracting Officer, a description of the work which he will perform with his own organization (e.g., earthwork, paving, etc.), the percentage of the total work this represents, and the estimated cost thereof. Such description of work to be performed by the Contractor's own organization shall be furnished to the Contracting Officer within 10 days after award of the contract.

1.16 PROFIT

a. Weighted Guidelines

Weighted guidelines method of determining profit shall be used on any equitable adjustment change order or modification issued under this contract. The profit factors, expressed as percent, shall be as follows:

<u>Factor</u>	<u>Rate</u>	<u>Weight</u>	<u>Value</u>
Degree of Risk	20		
Relative Difficulty of Work	15		
Size of Job	15		
Period of Performance	15		
Contractor's Investment	5		
Assistance by Government	5		
Subcontracting	<u>25</u>		
	100	Profit %	<u>          </u>

- b. Based on the circumstances of the procurement action, each of the above factors shall be weighted from 0.03 to 0.12 as indicated below.  
"Value" shall be obtained by multiplying the rate by the weight. The

Value column when totaled indicates the fair and reasonable profit percentage under the circumstances of the particular procurement.

- c. Degree of risk. Where the work involves no risk or the degree of risk is very small, the weighting should be 0.03; as the degree of risk increases, the weighting should be increased up to a maximum of 0.12. Lump sum items shall generally have a higher weight than unit price items. Consider the nature of the work and where it is to be performed. Also consider the portion of the work to be done by subcontractors, amount and type of labor included in costs and whether the negotiation is before or after performance of the work. Modifications settled before the fact have much greater risk than those settled after the fact. A weight of 0.03 is appropriate for after the fact equitable adjustments and/or settlements.
  - d. Relative Difficulty of Work. If the work is difficult and complex, the weight should be 0.12 and should be proportionately reduced to 0.03 on the simplest of jobs. This factor is tied in to some extent with the degree of risk. Other things to consider are the nature of the work, by whom it is to be done (i.e., subcontractors, consultants), etc.
  - e. Size of Job. Work of \$100,000 shall be weighted at 0.12. Work estimated between \$100,000 and \$5,000,000 shall be proportionately weighted from 0.12 to 0.05. Work from \$5,000,000 to \$10,000,000 shall be weighted at 0.04. Work in excess of \$10,000,000 shall be weighted at 0.03. It should be noted that control of fixed expenses generally improves with increased job magnitude.
  - f. Period of Performance. Work not to exceed 1 month is to be proportionately weighted at 0.03. Durations between 1 and 24 months are to be proportionately weighted between 0.03 and 0.12. Work in excess of 24 months is to be weighted at 0 0.12.
  - g. Contractor's Investment. To be weighted from 0.03 to 0.12 on the basis of below average, average and above average. Consider the amount of subcontracting, Government furnished property or data such as surveys, method of making progress payments, and any mobilization payment items.
  - h. Assistance by Government. To be weighted from 0.12 to 0.03 on the basis of average to above average. Consider use of Government owned property, equipment and facilities, expediting assistance, etc.
  - i. Subcontracting. To be weighed inversely proportional to the amount of subcontracting. Where 80% or more of the work is to be subcontracted use 0.03. The weighting should be increased proportionately to 0.12 where all the work is performed by the contractor's own forces.
- 1.17 VETERANS EMPLOYMENT EMPHASIS FOR U.S. ARMY CORPS OF ENGINEERS CONTRACTS

In addition to complying with the requirements outlined in FAR Part 22.13, FAR Provision 52.222-38, FAR Clause 52.222-35, FAR Clause 52.222-37, DFARS 222.13 and Department of Labor regulations, U.S. Army Corps of Engineers (USACE) contractors and subcontractors at all tiers are encouraged to promote the training and employment of U.S. veterans while performing under a USACE contract. While no set-aside, evaluation preference, or incentive applies to the solicitation or performance under the resultant contract, USACE contractors are encouraged to seek out highly qualified veterans to perform services under this contract. The following resources are available to assist USACE contractors in their outreach efforts:



Federal Veteran employment information at  
<http://www.fedshirevets.gov/index.aspx>

Department of Labor Veterans Employment Assistance <http://www.dol.gov/vets/>

Department of Veterans Affairs-VOW to Hire Heroes Act  
<http://benefits.va.gov/vow/>

Army Wounded Warrior Program  
<http://wtc.army.mil/modules/employers/index.html>

U.S. Chamber of Commerce Foundation-Hiring Our Hero's  
<http://www.hiringourheroes.org/>

Guide to Hiring Veterans - Reference Material  
[https://www.whitehouse.gov/sites/default/files/docs/white\\_house\\_business\\_council\\_-\\_guide\\_to\\_hiring\\_veterans\\_0.pdf](https://www.whitehouse.gov/sites/default/files/docs/white_house_business_council_-_guide_to_hiring_veterans_0.pdf)

#### 1.18 LAYOUT OF WORK

All new construction of, repair, or modifications to Dikes, Sills, Revetments or other river structures that are riverward of the high bank will be surveyed and staked by the USACE Survey Crew based out of the Missouri River Area Office. The contractor must notify USACE a minimum of three weeks prior to beginning work on river structure work to allow for surveyors to stake all work. USACE will inform the contractor when the stakes are in place and it will be the contractor's responsibility to maintain stakes after installation until the work is complete.

#### 1.19 DAMAGE TO WORK

The responsibility for damage to any part of the permanent work shall be as set forth in the CONTRACT CLAUSE 52.236-7 Permits and Responsibilities in Section 00 72 00 of this Contract. However, if, in the judgment of the Contracting Officer, any part of the permanent work performed by the Contractor is damaged by flood or earthquake, which damage is not due to the failure of the Contractor to take reasonable precautions or to exercise sound engineering and construction practices in the conduct of the work, the Contractor will make the repairs as ordered by the Contracting Officer and full compensation for such repairs will be made at the applicable contract unit or lump sum prices as fixed and established in the contract. If, in the opinion of the Contracting Officer, there are no contract unit or lump sum prices applicable to any part of such work an equitable adjustment pursuant to CONTRACT CLAUSE 52.243-4 Changes in Section 00 72 00 of this Contract, will be made as full compensation for the repairs of that part of the permanent work for which there are no applicable contract unit or lump sum prices. Except as herein provided, damage to all work (including temporary construction), utilities, materials, equipment and plant shall be repaired to the satisfaction of the Contracting Officer at the Contractor's expense, regardless of the cause of such damage.

#### 1.20 CONSTRUCTION EQUIPMENT OWNERSHIP AND OPERATING EXPENSE SCHEDULE

Whenever a modification or equitable adjustment of contract price is required, the Contractor's cost proposal for equipment ownership and operating expenses shall be as set forth in UAI 31.105-100 Construction and A-E Contracts. In accordance with FAR 31.105(d)(2)(i)(b), equipment ownership and operating costs shall be determined using EP 1110-1-8,

"Construction Equipment Ownership and Operating Expense Schedule". A current copy of EP 1110-1-8 "Construction Equipment Ownership and Operating Expense Schedule" can be ordered from the Government Printing Office (GPO) by calling Telephone No. 202-512-1800.

#### 1.21 SAFETY REQUIREMENTS

##### 1.21.1 Compliance with Occupational Safety and Health Act (OSHA)

The Contractor shall comply with OSHA standards as well as the edition in effect at the time of the solicitation of the Corps of Engineers General Safety Requirements Manual (EM 385-1-1). The OSHA standards are subject to change and such changes may affect the Contractor in his performance under the contract. It is the Contractor's responsibility to know such changes and effective dates of changes.

#### 1.22 SIGNAL LIGHTS

The Contractor shall display signal lights and conduct his operations in accordance with the General Regulations of the Department of the Army and of the Coast Guard governing lights and day signals to be displayed by towing vessels with tows on which no signals can be displayed, vessels working on wrecks, dredges, and vessels engaged in laying cables or pipe or in submarine or bank protection operations, lights to be displayed on dredge pipelines, and day signals to be displayed by vessels of more than 65 feet in length moored or anchored in a fairway or channel, and the passing by other vessels of floating plant working in navigable channels, as approved by the Secretary of the Army and the Commandant, US Coast Guard.

#### 1.23 WORK ADJACENT TO ROADS AND HIGHWAYS

Where the construction work is on or adjacent to, or involves hauling over public or private roads, streets, or highways, all herein referred to as "roads," the said roads shall, except as otherwise specified or directed, be kept open for traffic at all times during the construction period. Further, the Contractor shall, during said construction, provide, erect and maintain warning signs, lanterns or torches or other safety devices and, when necessary, provide flagmen for protection of traffic to the satisfaction of the Contracting Officer and local authorities. The Contractor shall keep the right-of-way of the roads free of debris that might be caused to accumulate thereon by his operations, and upon completion of the work, shall clean up the said roads and repair any damage to the roads occasioned by his operations under this contract to the satisfaction of the Contracting Officer and local authorities having jurisdiction. The drainage from the roads shall not be obstructed by the construction work. The Contractor shall be responsible for obtaining and paying for all permits required for operation on all roads.

#### 1.24 ENVIRONMENTAL REQUIREMENTS

##### 1.24.1 Cultural Resources

The Contractor shall protect existing historical, archeological, and cultural resources within the work area and shall be responsible for their preservation during the life of the contract. Work affecting these resources is not allowed unless prior approval is received from the Cultural Resources POC through the Corps of Engineers COR. If during excavation or other construction activities any previously unidentified or unanticipated historical, archaeological, and cultural resources are

discovered or found, all activities that may damage or alter such resources shall be temporarily suspended. Resources covered by this include, but are not limited to, any human skeletal remains or burials; artifacts; shell, midden, bone, charcoal, or other deposits; rock or coral alignments, pavings, wall, or other unexpected constructed feature; and any indication of agricultural or other human activities. Upon such discovery or find, the Contractor shall immediately notify the COR so that the appropriate installation and other authorities may be notified and a determination made as to their significance and what, if any, special disposition of the finds should be made.

#### 1.24.2 Water Quality

##### 1.24.2.1 Spill Control Plan

A Spill Control Plan is required to be submitted as part of the overall Environmental Protection Plan in accordance with Specification Section 01 57 20.00 10. It shall include the procedures, instructions, and reports to be used in the event of a spill of a substance regulated by 40 CFR 112, 40 CFR 265, 40 CFR 68, 40 CFR 302, and/or regulated under State or Local laws and regulations.

##### 1.24.2.2 Spill Response

All spills of hazardous materials/wastes and spills of petroleum, oil, or lubricants, regardless of volume, shall be immediately reported and cleaned up with all impacts adequately addressed at the Contractor's expense. Spills must be reported immediately to the local Fire Department (911) and the COR so that proper authorities can be notified. The Contractor shall provide verification, as required, that Contractor employees responding to a spill or uncontrolled release of a regulated material are properly trained in spill response and cleanup in accordance with all federal, state, and local requirements. The contractor shall document all spills in accordance with the Spill Reporting paragraph in this specification section.

##### 1.24.2.3 Clean Water Act Regulations and Requirements

Contractor shall be required to be in full compliance with all state and federal water quality regulations, including the Clean Water Act (sections 404, 401, 402). Any wetland impacts associated with access routes fall under Nationwide Permit 33 (Temporary Construction, Access, and Dewatering). Following construction, temporary fill used for access roads must be removed and the area restored to pre-construction elevations. The affected areas shall be revegetated with native species, as appropriate (see Section 32 92 19 SEEDING, Section 2.2 NATIVE SEED). Contractor shall fully comply with Clean Water Act Section 401 Water Quality Certification issued on April 5, 2021 by the Missouri Department of Natural Resources (NWK2020-001CW/CEK007375). As greater than 1 acre of land disturbance is expected for the project, Contractor must obtain a CWA Section 402 National Pollutant Discharge Elimination System Land Disturbance Stormwater General Permit from the Missouri Department of Natural Resources.

##### 1.24.3 National Environmental Policy Act Requirements

The contractor shall be required to be in full compliance with the requirements described in the project's National Environmental Policy Act (NEPA) compliance documents.

1.25 HAZARDOUS SUBSTANCES

1.25.1 Unexpected Hazardous Substances

In the event that suspected hazardous substances are revealed during construction activities, all such construction activities in the immediate area shall be immediately suspended. Hazardous substances for purposes of this specification only, shall be defined as Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) hazardous substances, infectious or radioactive wastes, asbestos or oil. The Contractor shall leave the materials undisturbed and shall immediately report the find to the Contracting Officer's Representative (COR) so that proper authorities can be notified. The Contractor shall not resume construction activities in the vicinity of the suspected hazardous substances until written clearance is received from the COR. Identification and removal of any such materials will be conducted in accordance with all Federal, state and local environmental laws and regulations according to the CONTRACT CLAUSE titled "Differing Site Conditions."

1.26 FIELD OFFICE OVERHEAD (FOOH) ACCOUNTING METHOD

NOTICE TO OFFERORS: Declare below the single accounting practice that you will apply to this contract to calculate field office overhead for all change orders, modifications, and requests for equitable adjustment. Pursuant to Federal Acquisition Regulations (FAR) Parts 31.105(d)(3) and 31.203(c), an accounting practice that varies from modification to modification is not allowed. Select one of the following:

1. TIME DISTRIBUTION BASE FOR A PER DIEM RATE

Field Office Overhead Per Diem Rate paragraph below for more information on this accounting practice.

2. DIRECT COST DISTRIBUTION BASE FOR PERCENTAGE MARKUP

Field Office Overhead Percentage Markup paragraph below for more information on this accounting practice.

3. OTHER ACCOUNTING PRACTICE THAT IS ALLOWABLE UNDER THE FAR AND THAT USES A SINGLE DISTRIBUTION BASE

If you choose 3, you must describe the accounting practice in sufficient detail below to allow the contracting officer to determine what account practice is being utilized by your company and that it complies with the FAR.

1.26.1 FIELD OFFICE OVERHEAD PER DIEM RATE

If any change to the contract, issued pursuant to the Changes Clause or otherwise, for which the Government is responsible, causes an increase or decrease in the Contractor's cost of, or the time required for, performance under the contract, the Contracting Officer shall make an equitable adjustment and modify the contract in writing.

Under such equitable adjustment, no percentage markup for field office overhead shall be allowed. Additionally, no payment of field office overhead shall be allowed for any changes when the completion of the contract is not extended by reason of the change, except the Contractor may be reimbursed any variable expense it incurs due to the change, provided it can substantiate the variables. The Contractor shall be reimbursed for field office overhead using only a per diem basis when the completion of the contract is extended by reason of the change issued under any clause

except the Default clause. Equitable adjustment shall be made for the costs that are incurred or are to be incurred due to the change. The Contractor shall provide a detailed breakdown of its proposed increase or decrease of costs as required by Contract Clause DFARS 252.236-7000 MODIFICATION OF PROPOSALS - PRICE BREAKDOWN.

1.26.2 FIELD OFFICE OVERHEAD PERCENTAGE MARKUP

If any change to the contract issued pursuant to the changes Clause, or otherwise, for which the Government is responsible, causes an increase or decrease in the Contractor's cost, or in the time required for performance under the contract, the Contracting Officer shall make an equitable adjustment and modify the contract in writing.

Under such equitable adjustment, no per diem rate for field office overhead shall be allowed. In such a case, payment of field office overhead shall be allowed for any change using only a percentage markup basis regardless of whether the completion of the contract is or is not extended by reason of the change, except for modifications issued pursuant to the Default Clause. The Contractor shall provide a detailed breakdown of its proposed increase or decrease of costs as required by Contract Clause DFARS 252.236-7000 MODIFICATION OF PROPOSALS - PRICE BREAKDOWN.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

Not Used

-- End of Section --

**This page was intentionally left blank for duplex printing.**

SECTION TABLE OF CONTENTS

DIVISION 01 - GENERAL REQUIREMENTS

SECTION 01 32 16.01 23

PROGRESS CHART (KCD)

**09/06**

PART 1 GENERAL

- 1.1 SCOPE
- 1.2 GENERAL
- 1.3 SUBMITTALS

PART 2 PRODUCTS

- 2.1 PROGRESS SCHEDULE
- 2.2 SCHEDULED EARNINGS CURVES

PART 3 EXECUTION (Not Applicable)

-- End of Section Table of Contents --

SECTION 01 32 16.01 23

PROGRESS CHART (KCD)

09/06

PART 1 GENERAL

1.1 SCOPE

This section covers requirements for the Progress Chart, complete.

1.2 GENERAL

The purpose of these requirements is to ensure adequate planning and execution of the work, to assist the Contracting Officer in appraising the reasonableness of the proposed schedule, to aid in evaluating progress of the work, and to serve as a basis for periodic progress payments.

1.3 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only or as otherwise designated. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-07 Certificates

Progress Schedule; G, RO

Document procedures.

PART 2 PRODUCTS

2.1 PROGRESS SCHEDULE

The Progress Chart shall conform with CONTRACT CLAUSE titled "Schedule for Construction Contracts". In preparing the Progress Chart, scheduling of construction is the responsibility of the Contractor. Progress schedule activities shall include as sperate bar chart items; specific work based on different stone gradations.

2.2 SCHEDULED EARNINGS CURVES

In addition to the requirements mentioned above, the Contractor shall include with the Progress Chart, the scheduled earnings curves (time versus scheduled earnings). The curve shall be developed to reflect the scheduled earnings, in percentages, for the work scheduled for completion at any time. The curve shall be plotted on graph paper with the Contractor's earnings indicated on the vertical axis and a time scale by months on the horizontal axis. The result will be one "S" curve form which the scheduled progress can be evaluated at the end of each month. The graph will be revised each time there is a major revision in the Progress Chart.



PART 3 EXECUTION (Not Applicable)

-- End of Section --

**This page was intentionally left blank for duplex printing.**

SECTION TABLE OF CONTENTS

DIVISION 01 - GENERAL REQUIREMENTS

SECTION 01 33 00

SUBMITTAL PROCEDURES

**08/18, CHG 4: 02/21**

PART 1 GENERAL

- 1.1 SUMMARY
  - 1.1.1 Submittal Information
  - 1.1.2 Project Type
  - 1.1.3 Submission of Submittals
- 1.2 DEFINITIONS
  - 1.2.1 Submittal Descriptions (SD)
  - 1.2.2 Approving Authority
  - 1.2.3 Work
- 1.3 SUBMITTALS
- 1.4 SUBMITTAL CLASSIFICATION
  - 1.4.1 Government Approved (G)
  - 1.4.2 For Information Only
- 1.5 PREPARATION
  - 1.5.1 Transmittal Form
  - 1.5.2 Submittal Format
    - 1.5.2.1 Format of SD-01 Preconstruction Submittals
    - 1.5.2.2 Format for SD-02 Shop Drawings
      - 1.5.2.2.1 Drawing Identification
    - 1.5.2.3 Format of SD-03 Product Data
      - 1.5.2.3.1 Product Information
      - 1.5.2.3.2 Standards
      - 1.5.2.3.3 Data Submission
    - 1.5.2.4 Format of SD-04 Samples
      - 1.5.2.4.1 Sample Characteristics
      - 1.5.2.4.2 Sample Incorporation
      - 1.5.2.4.3 Comparison Sample
    - 1.5.2.5 Format of SD-05 Design Data
    - 1.5.2.6 Format of SD-06 Test Reports
    - 1.5.2.7 Format of SD-07 Certificates
    - 1.5.2.8 Format of SD-08 Manufacturer's Instructions
      - 1.5.2.8.1 Standards
    - 1.5.2.9 Format of SD-09 Manufacturer's Field Reports
    - 1.5.2.10 Format of SD-11 Closeout Submittals
  - 1.5.3 Source Drawings for Shop Drawings
    - 1.5.3.1 Source Drawings
    - 1.5.3.2 Terms and Conditions
- 1.6 ELECTRONIC SUBMITTAL PROCEDURES
  - 1.6.1 ELECTRONIC SUBMITTAL - EMAIL
- 1.7 SUBMITTAL PROCEDURES
  - 1.7.1 Procedures
    - 1.7.1.1 District Office Review
    - 1.7.1.2 Resident Office Review
    - 1.7.1.3 Information Only
    - 1.7.1.4 Submittal Quantities

- 1.8 ELECTRONIC SUBMITTAL WORKFLOW
  - 1.8.1 Phase 1
  - 1.8.2 Phase 2
  - 1.8.3 Phase 3
- 1.9 GOVERNMENT APPROVED SUBMITTALS
- 1.10 FIELD TEST REPORTS
- 1.11 INFORMATION ONLY SUBMITTALS
- 1.12 PROJECT SUBMITTAL REGISTER
  - 1.12.1 Submittal Management
  - 1.12.2 Preconstruction Use of Submittal Register
  - 1.12.3 Contractor Use of Submittal Register
  - 1.12.4 Approving Authority Use of Submittal Register
  - 1.12.5 Delivery of Copies
- 1.13 VARIATIONS
  - 1.13.1 Considering Variations
  - 1.13.2 Proposing Variations
  - 1.13.3 Warranting that Variations are Compatible
  - 1.13.4 Review Schedule Extension
- 1.14 SCHEDULING
- 1.15 GOVERNMENT APPROVING AUTHORITY
  - 1.15.1 Review Notations
- 1.16 DISAPPROVED SUBMITTALS
- 1.17 APPROVED SUBMITTALS
- 1.18 APPROVED SAMPLES
- 1.19 WITHHOLDING OF PAYMENT
- 1.20 CERTIFICATION OF SUBMITTAL DATA

PART 2 PRODUCTS

PART 3 EXECUTION

ATTACHMENTS:

ENG Form 4025-R

Attachment 2 - Submittal Register

- 1. ENG 4025 - Submittal Transmittal Form
- 2. Submittal Register

-- End of Section Table of Contents --

SECTION 01 33 00

SUBMITTAL PROCEDURES  
**08/18, CHG 4: 02/21**

PART 1 GENERAL

1.1 SUMMARY

1.1.1 Submittal Information

The Contracting Officer may request submittals in addition to those specified when deemed necessary to adequately describe the work covered in the respective sections. Each submittal is to be complete and in sufficient detail to allow ready determination of compliance with contract requirements.

Units of weights and measures used on all submittals are to be the same as those used in the contract drawings. Each submittal is to be complete and in sufficient detail to allow ready determination of compliance with contract requirements.

1.1.2 Project Type

The Contractor's Quality Control (CQC) System Manager are to check and approve all items before submittal and stamp, sign, and date indicating action taken. Proposed deviations from the contract requirements are to be clearly identified. Include within submittals items such as: Contractor's, manufacturer's, or fabricator's drawings; descriptive literature including (but not limited to) catalog cuts, diagrams, operating charts or curves; test reports; test cylinders; samples; O&M manuals (including parts list); certifications; warranties; and other such required submittals.

1.1.3 Submission of Submittals

Schedule and provide submittals requiring Government approval before acquiring the material or equipment covered thereby. Pick up and dispose of samples not incorporated into the work in accordance with manufacturer's Safety Data Sheets (SDS) and in compliance with existing laws and regulations.

1.2 DEFINITIONS

1.2.1 Submittal Descriptions (SD)

Submittal requirements are specified in the technical sections. Examples and descriptions of submittals identified by the Submittal Description (SD) numbers and titles follow:

SD-01 Preconstruction Submittals

Submittals that are required prior to or at the start of construction (work) or the next major phase of the construction on a multiphase contract.

Preconstruction Submittals include schedules and a tabular list of

locations, features, and other pertinent information regarding products, materials, equipment, or components to be used in the work.

Certificates Of Insurance

Surety Bonds

List Of Proposed Subcontractors

List Of Proposed Products

Baseline Network Analysis Schedule (NAS)

Submittal Register

Schedule Of Prices Or Earned Value Report

Accident Prevention Plan

Work Plan

Quality Control (QC) plan

Environmental Protection Plan

#### SD-03 Product Data

Catalog cuts, illustrations, schedules, diagrams, performance charts, instructions and brochures illustrating size, physical appearance and other characteristics of materials, systems or equipment for some portion of the work.

Samples of warranty language when the contract requires extended product warranties.

Provide full computer selection output for equipment selected by computer software.

#### SD-04 Samples

Fabricated or unfabricated physical examples of materials, equipment or workmanship that illustrate functional and aesthetic characteristics of a material or product and establish standards by which the work can be judged.

Color samples from the manufacturer's standard line (or custom color samples if specified) to be used in selecting or approving colors for the project.

Field samples and mock-ups constructed on the project site establish standards ensuring work can be judged. Includes assemblies or portions of assemblies that are to be incorporated into the project and those that will be removed at conclusion of the work.

#### SD-06 Test Reports

Report signed by authorized official of testing laboratory that a material, product or system identical to the material, product or system to be provided has been tested in accord with specified

requirements. Unless specified in another section, testing must have been within three years of date of contract award for the project.

Report that includes findings of a test required to be performed on an actual portion of the work or prototype prepared for the project before shipment to job site.

Report that includes finding of a test made at the job site or on sample taken from the job site, on portion of work during or after installation.

Investigation reports

Daily logs and checklists

Final acceptance test and operational test procedure

#### SD-07 Certificates

Statements printed on the manufacturer's letterhead and signed by responsible officials of manufacturer of product, system or material attesting that the product, system, or material meets specification requirements. Must be dated after award of project contract and clearly name the project.

Document required of Contractor, or of a manufacturer, supplier, installer or Subcontractor through Contractor. The document purpose is to further promote the orderly progression of a portion of the work by documenting procedures, acceptability of methods, or personnel qualifications.

Confined space entry permits

Text of posted operating instructions

#### SD-08 Manufacturer's Instructions

Preprinted material describing installation of a product, system or material, including special notices and (SDS) concerning impedances, hazards and safety precautions.

#### SD-11 Closeout Submittals

Documentation to record compliance with technical or administrative requirements or to establish an administrative mechanism.

Submittals required for Guiding Principle Validation (GPV) or Third Party Certification (TPC).

Special requirements necessary to properly close out a construction contract. For example, Record Drawings and as-built drawings. Also, submittal requirements necessary to properly close out a major phase of construction on a multi-phase contract.

#### 1.2.2 Approving Authority

Office or designated person authorized to approve the submittal.

### 1.2.3 Work

As used in this section, on-site and off-site construction required by contract documents, including labor necessary to produce submittals, construction, materials, products, equipment, and systems incorporated or to be incorporated in such construction. In exception, excludes work to produce SD-01 submittals.

### 1.3 SUBMITTALS

Government approval is required for submittals with a "G" or "S" classification. Submittals not having a "G" or "S" classification are for information only. When used, a code following the "G" classification identifies the office that will review the submittal for the Government. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

Submittal Register; G, RO

### 1.4 SUBMITTAL CLASSIFICATION

Submittals are classified as follows:

Unless directed otherwise, the words "Government Approval" associated with "G" designated submittals are interpreted in the context of the below defined submittal types. Submittal Reviewers include the following:

DO - District Office  
RO - Resident Office

#### 1.4.1 Government Approved (G)

Government approval is required for extensions of design, critical materials, variations, equipment whose compatibility with the entire system must be checked, and other items as designated by the Government.

Within the terms of the Contract Clause SPECIFICATIONS AND DRAWINGS FOR CONSTRUCTION, submittals are considered to be "shop drawings."

#### 1.4.2 For Information Only

Submittals not requiring Government approval will be for information only. Within the terms of the Contract Clause SPECIFICATIONS AND DRAWINGS FOR CONSTRUCTION, they are not considered to be "shop drawings."

### 1.5 PREPARATION

#### 1.5.1 Transmittal Form

Use the ENG Form 4025-R transmittal form for submitting both Government-approved and information-only submittals. Submit in accordance with the instructions on the reverse side of the form. These forms will be furnished to the Contractor and are included in the RMS CM software that the Contractor is required to use for this contract. Properly complete this form by filling out all the heading blank spaces and identifying each item submitted. Exercise special care to ensure proper listing of the



specification paragraph and sheet number of the contract drawings pertinent to the data submitted for each item.

#### 1.5.2 Submittal Format

##### 1.5.2.1 Format of SD-01 Preconstruction Submittals

When the submittal includes a document that is to be used in the project, or is to become part of the project record, other than as a submittal, do not apply the Contractor's approval stamp to the document itself, but to a separate sheet accompanying the document.

Provide data in the unit of measure used in the contract documents.

##### 1.5.2.2 Format for SD-02 Shop Drawings

Provide shop drawings not less than 8 1/2 by 11 inches nor more than 30 by 42 inches, except for full-size patterns or templates. Prepare drawings to accurate size, with scale indicated, unless another form is required. Ensure drawings are suitable for reproduction and of a quality to produce clear, distinct lines and letters, with dark lines on a white background.

- a. Include the nameplate data, size, and capacity on drawings. Also include applicable federal, military, industry, and technical society publication references.
- b. Dimension drawings, except diagrams and schematic drawings. Prepare drawings demonstrating interface with other trades to scale. Use the same unit of measure for shop drawings as indicated on the contract drawings. Identify materials and products for work shown.

Submit an electronic copy of drawings in PDF format.

##### 1.5.2.2.1 Drawing Identification

Include on each drawing the drawing title, number, date, and revision numbers and dates, in addition to information required in paragraph IDENTIFYING SUBMITTALS.

Number drawings in a logical sequence. Each drawing is to bear the number of the submittal in a uniform location next to the title block. Place the Government contract number in the margin, immediately below the title block, for each drawing.

##### 1.5.2.3 Format of SD-03 Product Data

Present product data submittals for each section. Include a table of contents, listing the page and catalog item numbers for product data.

Indicate, by prominent notation, each product that is being submitted; indicate the specification section number and paragraph number to which it pertains.

##### 1.5.2.3.1 Product Information

Supplement product data with material prepared for the project to satisfy the submittal requirements where product data does not exist. Identify this material as developed specifically for the project, with information and format as required for submission of SD-07 Certificates.

Provide product data in units used in the Contract documents. Where product data are included in preprinted catalogs with another unit, submit the dimensions in contract document units, on a separate sheet.

#### 1.5.2.3.2 Standards

Where equipment or materials are specified to conform to industry or technical-society reference standards of such organizations as the American National Standards Institute (ANSI), ASTM International (ASTM), National Electrical Manufacturer's Association (NEMA), Underwriters Laboratories (UL), or Association of Edison Illuminating Companies (AEIC), submit proof of such compliance. The label or listing by the specified organization will be acceptable evidence of compliance. In lieu of the label or listing, submit a certificate from an independent testing organization, competent to perform testing, and approved by the Contracting Officer. State on the certificate that the item has been tested in accordance with the specified organization's test methods and that the item complies with the specified organization's reference standard.

#### 1.5.2.3.3 Data Submission

Collect required data submittals for each specific material, product, unit of work, or system into a single submittal that is marked for choices, options, and portions applicable to the submittal. Mark each copy of the product data identically. Partial submittals will be accepted for expedition of the construction effort.

Submit the manufacturer's instructions before installation.

#### 1.5.2.4 Format of SD-04 Samples

##### 1.5.2.4.1 Sample Characteristics

Furnish samples in the following sizes, unless otherwise specified or unless the manufacturer has prepackaged samples of approximately the same size as specified:

- a. Sample of Equipment or Device: Full size.
- b. Sample of Materials Less Than 2 by 3 inches: Built up to 8 1/2 by 11 inches.
- c. Sample of Materials Exceeding 8 1/2 by 11 inches: Cut down to 8 1/2 by 11 inches and adequate to indicate color, texture, and material variations.
- d. Sample of Linear Devices or Materials: 10 inch length or length to be supplied, if less than 10 inches. Examples of linear devices or materials are conduit and handrails.
- e. Sample Volume of Nonsolid Materials: Pint. Examples of nonsolid materials are sand and paint.
- f. Color Selection Samples: 2 by 4 inches. Where samples are specified for selection of color, finish, pattern, or texture, submit the full set of available choices for the material or product specified. Sizes and quantities of samples are to represent their respective standard unit.

g. Sample Panel: 4 by 4 feet.

h. Sample Installation: 100 square feet.

#### 1.5.2.4.2 Sample Incorporation

Reusable Samples: Incorporate returned samples into work only if so specified or indicated. Incorporated samples are to be in undamaged condition at the time of use.

Recording of Sample Installation: Note and preserve the notation of any area constituting a sample installation, but remove the notation at the final clean-up of the project.

#### 1.5.2.4.3 Comparison Sample

Samples Showing Range of Variation: Where variations in color, finish, pattern, or texture are unavoidable due to nature of the materials, submit sets of samples of not less than three units showing extremes and middle of range. Mark each unit to describe its relation to the range of the variation.

When color, texture, or pattern is specified by naming a particular manufacturer and style, include one sample of that manufacturer and style, for comparison.

#### 1.5.2.5 Format of SD-05 Design Data

Provide design data and certificates on 8 1/2 by 11 inch paper.

#### 1.5.2.6 Format of SD-06 Test Reports

By prominent notation, indicate each report in the submittal. Indicate the specification number and paragraph number to which each report pertains.

#### 1.5.2.7 Format of SD-07 Certificates

Provide design data and certificates on 8 1/2 by 11 inch paper.

#### 1.5.2.8 Format of SD-08 Manufacturer's Instructions

Present manufacturer's instructions submittals for each section. Include the manufacturer's name, trade name, place of manufacture, and catalog model or number on product data. Also include applicable federal, military, industry, and technical-society publication references. If supplemental information is needed to clarify the manufacturer's data, submit it as specified for SD-07 Certificates.

Submit the manufacturer's instructions before installation.

##### 1.5.2.8.1 Standards

Where equipment or materials are specified to conform to industry or technical-society reference standards of such organizations as the American National Standards Institute (ANSI), ASTM International (ASTM), National Electrical Manufacturer's Association (NEMA), Underwriters Laboratories (UL), or Association of Edison Illuminating Companies (AEIC), submit proof of such compliance. The label or listing by the specified organization

will be acceptable evidence of compliance. In lieu of the label or listing, submit a certificate from an independent testing organization, competent to perform testing, and approved by the Contracting Officer. State on the certificate that the item has been tested in accordance with the specified organization's test methods and that the item complies with the specified organization's reference standard.

#### 1.5.2.9 Format of SD-09 Manufacturer's Field Reports

By prominent notation, indicate each report in the submittal. Indicate the specification number and paragraph number to which each report pertains.

#### 1.5.2.10 Format of SD-11 Closeout Submittals

When the submittal includes a document that is to be used in the project or is to become part of the project record, other than as a submittal, do not apply the Contractor's approval stamp to the document itself, but to a separate sheet accompanying the document.

Provide data in the unit of measure used in the contract documents.

#### 1.5.3 Source Drawings for Shop Drawings

##### 1.5.3.1 Source Drawings

The entire set of source drawing files (DWG) will not be provided to the Contractor. Request the specific Drawing Number for the preparation of shop drawings. Only those drawings requested to prepare shop drawings will be provided. These drawings are provided only after award.

##### 1.5.3.2 Terms and Conditions

Data contained on these electronic files must not be used for any purpose other than as a convenience in the preparation of construction data for the referenced project. Any other use or reuse is at the sole risk of the Contractor and without liability or legal exposure to the Government. The Contractor must make no claim, and waives to the fullest extent permitted by law any claim or cause of action of any nature against the Government, its agents, or its subconsultants that may arise out of or in connection with the use of these electronic files. The Contractor must, to the fullest extent permitted by law, indemnify and hold the Government harmless against all damages, liabilities, or costs, including reasonable attorney's fees and defense costs, arising out of or resulting from the use of these electronic files.

These electronic source drawing files are not construction documents. Differences may exist between the source drawing files and the corresponding construction documents. The Government makes no representation regarding the accuracy or completeness of the electronic source drawing files, nor does it make representation to the compatibility of these files with the Contractor hardware or software. The Contractor is responsible for determining if any conflict exists. In the event that a conflict arises between the signed and sealed construction documents prepared by the Government and the furnished source drawing files, the signed and sealed construction documents govern. Use of these source drawing files does not relieve the Contractor of the duty to fully comply with the contract documents, including and without limitation the need to check, confirm and coordinate the work of all contractors for the project. If the Contractor uses, duplicates or modifies these electronic source

drawing files for use in producing construction data related to this contract, remove all previous indication of ownership (seals, logos, signatures, initials and dates).

#### 1.6 ELECTRONIC SUBMITTAL PROCEDURES

Submittals shall be transmitted, logged and tracked as follows, unless otherwise specified in Divisions 1 through 48.

##### 1.6.1 ELECTRONIC SUBMITTAL - EMAIL

Provide submittals in electronic format, with the exception of material samples required for SD-04 Samples items. In addition to the electronic submittal, provide three hard copies of the submittals. Compile the submittal file as a single, complete document, to include the Transmittal Form described within. Name the electronic submittal file specifically according to its contents, coordinate the file naming convention with the Contracting Officer. Electronic files must be of sufficient quality that all information is legible. Use PDF as the electronic format, unless otherwise specified or directed by the Contracting Officer. Generate PDF files from original documents with bookmarks so that the text included in the PDF file is both searchable and can be copied. If documents are scanned, Optical Character Resolution (OCR) routines are required. Index and bookmark files exceeding 30 pages to allow efficient navigation of the file. When required, the electronic file must include a valid electronic signature, or scan of a signature.

Submittals shall be in a single, legible.pdf format. An ENG 4025 is required for all electronic submittals (G, FIO) and both ENG 4026 and ENG 4025 forms are required for submittals with DO, A/E, CxA, FP and TX reviewer designations.

Provide electronic submittal documents fewer than 10MB though RMS or as directed by the contracting officer.

Provide electronic documents over 10MB on an optical disc, or through an electronic file sharing system such as the AMRDEC SAFE Web Application located at the following website: <https://safe.amrdec.army.mil/safe/>.

#### 1.7 SUBMITTAL PROCEDURES

The submittal process shall be as follows, except if more stringent requirements are specified in Divisions 1 through 48.

##### 1.7.1 Procedures

Notifications shall be sent to the appropriate government representatives responsible for reviewing the submittal as determined by submittal designation found in the submittal register or applicable specification whichever is more stringent. Coordinate with the Contracting Officer's Representative to ascertain the contact information of government reviewers to be uploaded into the submittal program during submittal program configuration.

##### 1.7.1.1 District Office Review

For items to be reviewed by the "DO", submittal notifications shall be sent

via the web-based electronic program to the Kansas City District Office. Submittals designated "DO" shall be mailed or delivered to the locations provided by the Contracting Officer's Representative.

#### 1.7.1.2 Resident Office Review

The Contractor shall furnish all submittals to the Resident Office electronically. The submittal is not considered accepted until the COR or ACO has signed the ENG 4025.

#### 1.7.1.3 Information Only

For Information only submittals, the Contractor shall furnish 2 copies of ENG Form 4025 and 2 copies of the submittal data to the Resident Office.

#### 1.7.1.4 Submittal Quantities

Should there be a discrepancy between submittal quantities required in Divisions 1 through 48 and this section, the more stringent shall govern. The number of physical copies shall be as specified in this section or as required by Div. 1 through 48, whichever is more stringent.

### 1.8 ELECTRONIC SUBMITTAL WORKFLOW

Only individuals with roles marked with an asterisk shall have the ability to restart the submittal process.

Reviews shown atop one another are concurrent reviews. All concurrent reviews must be complete prior to progression to the next phase of review.

The QCM and COR shall have administrative rights within the electronic submittal program. Other reviewers may only provide reviews and have user rights.

#### 1.8.1 Phase 1

This phase of the submittal process is controlled solely by the prime contractor. The submittal may be initiated by the QCM or subcontractors. The QCM shall review all comments from this phase, along with his/her review, and either reject the submittal, re-starting the submittal process, or cause the program to initiate Phase 2.

Notifications for a submittal in this phase shall not be sent to any Government reviewer. The QCM, within the submittal program, shall have the ability to reject the submittal and restart the submittal process if found non-compliant with the contract. Contractors (both the Prime Contractor and subcontractors) may only view the COR's review to avoid conflicts with review comments. (ACO/COR review completed in Phase 3)

#### 1.8.2 Phase 2

Notifications shall be sent to applicable reviewers after the completion of the QCM's review in Phase 1. All submittals shall be sent to the Resident/Field Office. Notifications are to be sent to other reviewers as applicable. For example, notifications are sent to the "DO/AE" and "CxA" only when submittals are designated "DO/AE" and "CxA", as required by submittal register or applicable specification section.

### 1.8.3 Phase 3

The COR (or ACO) shall receive a notification that all reviews have been completed for the submittal. The COR shall be able to view all previous review comments in a single file or screen and add comments as necessary. The COR will choose a review code and provide applicable comments. Only comments and the review code released by the COR constitute the official Government review.

## 1.9 GOVERNMENT APPROVED SUBMITTALS

Where the review authority is designated to the Government, the Contractor is required to sign the certification on the ENG Form 4025 in the box beside the remarks block in Section I. The submittal is not considered accepted until the COR or ACO has signed the ENG 4025.

### 1.10 FIELD TEST REPORTS

Routine tests such as soil density, concrete field tests, pressure testing, etc., shall be delivered to the Quality Assurance Representative with the daily Quality Control Reports and shall be cross-referenced to the Quality Control Report for the day of the test(s). Additionally, field test reports may be required to be compiled and submitted per the applicable specification section and submitted via formal transmittal.

### 1.11 INFORMATION ONLY SUBMITTALS

The Contractor is required to sign the certification on the ENG Form 4025. Any submittal without a submittal classification/designation found in either the Submittal Register or the applicable specification is considered to be an information only submittal.

Normally submittals for information only will not be returned. Approval of the Contracting Officer is not required on information only submittals. The Government reserves the right to require the Contractor to resubmit any item found not to comply with the contract. This does not relieve the Contractor from the obligation to furnish material conforming to the plans and specifications; will not prevent the Contracting Officer from requiring removal and replacement of nonconforming material incorporated in the work; and does not relieve the Contractor of the requirement to furnish samples for testing by the Government laboratory or for check testing by the Government in those instances where the technical specifications so prescribe.

### 1.12 PROJECT SUBMITTAL REGISTER

A sample Project Submittal Register showing items of equipment and materials for when submittals are required by the specifications is provided as "Attachment 2 - Submittal Register."

#### 1.12.1 Submittal Management

Prepare and maintain a submittal register, as the work progresses. Do not change data that is output in columns (c), (d), (e), and (f) as delivered by Government; retain data that is output in columns (a), (g), (h), and (i) as approved. As an attachment, provide a submittal register showing items of equipment and materials for which submittals are required by the specifications. This list may not be all-inclusive and additional submittals may be required. Maintain a submittal register for the project

in accordance with Section 01 45 00.15 10 RESIDENT MANAGEMENT SYSTEM CONTRACTOR MODE(RMS CM).The Government will provide the initial submittal register in electronic format.

Column (c): Lists specification section in which submittal is required.

Column (d): Lists each submittal description (SD Number. and type, e.g., SD-02 Shop Drawings) required in each specification section.

Column (e): Lists one principal paragraph in each specification section where a material or product is specified. This listing is only to facilitate locating submitted requirements. Do not consider entries in column (e) as limiting the project requirements.

Thereafter, the Contractor is to track all submittals by maintaining a complete list, including completion of all data columns and all dates on which submittals are received by and returned by the Government.

#### 1.12.2 Preconstruction Use of Submittal Register

Submit the submittal register. Include the QC plan and the project schedule. Verify that all submittals required for the project are listed and add missing submittals. Coordinate and complete the following fields on the register submitted with the QC plan and the project schedule:

Column (a) Activity Number: Activity number from the project schedule.

Column (g) Contractor Submit Date: Scheduled date for the approving authority to receive submittals.

Column (h) Contractor Approval Date: Date that Contractor needs approval of submittal.

Column (i) Contractor Material: Date that Contractor needs material delivered to Contractor control.

#### 1.12.3 Contractor Use of Submittal Register

Update the following fields in the Government-furnished submittal register program or equivalent fields in the program used by the Contractor with each submittal throughout the contract.

Column (b) Transmittal Number: List of consecutive, Contractor-assigned numbers.

Column (j) Action Code (k): Date of action used to record Contractor's review when forwarding submittals to QC.

Column (l) Date submittal transmitted.

Column (q) Date approval was received.

#### 1.12.4 Approving Authority Use of Submittal Register

Update the following fields:



Column (b) Transmittal Number: List of consecutive, Contractor-assigned numbers.

Column (l) Date submittal was received.

Column (m) through (p) Dates of review actions.

Column (q) Date of return to Contractor.

#### 1.12.5 Delivery of Copies

Submit an updated electronic copy of the submittal register to the Contracting Officer with each invoice request. Provide an updated Submittal Register monthly regardless of whether an invoice is submitted.

#### 1.13 VARIATIONS

Variations from contract requirements require Contracting Officer approval pursuant to contract Clause FAR 52.236-21 Specifications and Drawings for Construction, and will be considered where advantageous to the Government.

##### 1.13.1 Considering Variations

Discussion of variations with the Contracting Officer before submission will help ensure that functional and quality requirements are met and minimize rejections and resubmittals. For variations that include design changes or some material or product substitutions, the Government may require an evaluation and analysis by a licensed professional engineer hired by the contractor.

Specifically point out variations from contract requirements in a transmittal letter. Failure to point out variations may cause the Government to require rejection and removal of such work at no additional cost to the Government.

##### 1.13.2 Proposing Variations

Check the column "variation" of ENG Form 4025 for submittals that include variations proposed by the Contractor. Set forth in writing the reason for any variations and note such variations on the submittal. The Government reserves the right to rescind inadvertent approval of submittals containing unnoted variations.

##### 1.13.3 Warranting that Variations are Compatible

When delivering a variation for approval, the Contractor warrants that this contract has been reviewed to establish that the variation, if incorporated, will be compatible with other elements of work.

##### 1.13.4 Review Schedule Extension

In addition to the normal submittal review period, a period of 14 calendar days will be allowed for the Government to consider submittals with variations.

#### 1.14 SCHEDULING

Schedule and submit concurrently product data and shop drawings covering

component items forming a system or items that are interrelated. Submit pertinent certifications at the same time. No delay damages or time extensions will be allowed for time lost in late submittals.

- a. Coordinate scheduling, sequencing, preparing, and processing of submittals with performance of work so that work will not be delayed by submittal processing. The Contractor is responsible for additional time required for Government reviews resulting from required resubmittals. The review period for each resubmittal is the same as for the initial submittal.
- b. Submittals required by the contract documents are listed on the submittal register. If a submittal is listed in the submittal register but does not pertain to the contract work, the Contractor is to include the submittal in the register and annotate it "N/A" with a brief explanation. Approval by the Contracting Officer does not relieve the Contractor of supplying submittals required by the contract documents but that have been omitted from the register or marked "N/A."
- c. Resubmit the submittal register and annotate it monthly with actual submission and approval dates. When all items on the register have been fully approved, no further resubmittal is required.

Contracting Officer review will be completed within 30 calendar days after the date of submission.

#### 1.15 GOVERNMENT APPROVING AUTHORITY

When the approving authority is the Contracting Officer, the Government will:

- a. Note the date on which the submittal was received.
- b. Review submittals for approval within the scheduling period specified and only for conformance with project design concepts and compliance with contract documents.
- c. Identify returned submittals with one of the actions defined in paragraph REVIEW NOTATIONS and with comments and markings appropriate for the action indicated.

Upon completion of review of submittals requiring Government approval, stamp and date submittals. Two copies of the submittal will be retained by the Contracting Officer and two copies of the submittal will be returned to the Contractor.

##### 1.15.1 Review Notations

Submittals will be returned to the Contractor with the following notations:

- a. Submittals marked "approved" or "accepted" authorize proceeding with the work covered.
- b. Submittals marked "approved as noted" or "approved, except as noted, resubmittal not required," authorize proceeding with the work covered provided that the Contractor takes no exception to the corrections.
- c. Submittals marked "not approved," "disapproved," or "revise and resubmit" indicate incomplete submittal or noncompliance with the

contract requirements or design concept. Resubmit with appropriate changes. Do not proceed with work for this item until the resubmittal is approved.

- d. Submittals marked "not reviewed" indicate that the submittal has been previously reviewed and approved, is not required, does not have evidence of being reviewed and approved by Contractor, or is not complete. A submittal marked "not reviewed" will be returned with an explanation of the reason it is not reviewed. Resubmit submittals returned for lack of review by Contractor or for being incomplete, with appropriate action, coordination, or change.
- e. Submittals marked "receipt acknowledged" indicate that submittals have been received by the Government. This applies only to "information-only submittals" as previously defined.

#### 1.16 DISAPPROVED SUBMITTALS

Make corrections required by the Contracting Officer. If the Contractor considers any correction or notation on the returned submittals to constitute a change to the contract drawings or specifications, give notice to the Contracting Officer as required under the FAR clause titled CHANGES. The Contractor is responsible for the dimensions and design of connection details and the construction of work. Failure to point out variations may cause the Government to require rejection and removal of such work at the Contractor's expense.

If changes are necessary to submittals, make such revisions and resubmit in accordance with the procedures above. No item of work requiring a submittal change is to be accomplished until the changed submittals are approved.

#### 1.17 APPROVED SUBMITTALS

Approval or acceptance by the Government for a submittal does not relieve the Contractor of the responsibility for meeting the contract requirements or for any error that may exist, because under the Quality Control (QC) requirements of this contract, the Contractor is responsible for ensuring information contained within each submittal accurately conforms with the requirements of the contract documents.

After submittals have been approved or accepted by the Contracting Officer, no resubmittal for the purpose of substituting materials or equipment will be considered unless accompanied by an explanation of why a substitution is necessary.

#### 1.18 APPROVED SAMPLES

Approval of a sample is only for the characteristics or use named in such approval and is not to be construed to change or modify any contract requirements. Before submitting samples, provide assurance that the materials or equipment will be available in quantities required in the project. No change or substitution will be permitted after a sample has been approved.

Match the approved samples for materials and equipment incorporated in the work. If requested, approved samples, including those that may be damaged in testing, will be returned to the Contractor, at its expense, upon completion of the contract. Unapproved samples will also be returned to

the Contractor at its expense, if so requested.

Failure of any materials to pass the specified tests will be sufficient cause for refusal to consider, under this contract, any further samples of the same brand or make as that material. The Government reserves the right to disapprove any material or equipment that has previously proved unsatisfactory in service.

Samples of various materials or equipment delivered on the site or in place may be taken by the Contracting Officer for testing. Samples failing to meet contract requirements will automatically void previous approvals. Replace such materials or equipment to meet contract requirements.

1.19 WITHHOLDING OF PAYMENT

Payment for materials incorporated in the work will not be made if required approvals have not been obtained.

1.20 CERTIFICATION OF SUBMITTAL DATA

Certify the submittal data as follows on Form ENG 4025: "I certify that the above submitted items had been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated.

\_\_\_\_NAME OF CONTRACTOR \_\_\_\_\_ SIGNATURE OF CONTRACTOR

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

Not Used

Attachments

1. ENG 4025 - Submittal Transmittal Form
2. Submittal Register

-- End of Section --



## INSTRUCTIONS

1. Section I will be initiated by the Contractor in the required number of copies.
2. Each Transmittal shall be numbered consecutively. The Transmittal Number typically includes two parts separated by a dash (-). The first part is the specification section number. The second part is a sequential number for the submittals under that spec section. If the Transmittal is a resubmittal, then add a decimal point to the end of the original Transmittal Number and begin numbering the resubmittal packages sequentially after the decimal.
3. The "Item No." for each entry on this form will be the same "Item No." as indicated on ENG FORM 4288-R.
4. Submittals requiring expeditious handling will be submitted on a separate ENG Form 4025-R.
5. Items transmitted on each transmittal form will be from the same specification section. Do not combine submittal information from different specification sections in a single transmittal.
6. If the data submitted are intentionally in variance with the contract requirements, indicate a variation in column h, and enter a statement in the Remarks block describing the detailed reason for the variation.
7. ENG Form 4025-R is self-transmitting - a letter of transmittal is not required.
8. When submittal items are transmitted, indicate the "Submittal Type" (*SD-01 through SD-11*) in column c of Section I.  
 Submittal types are the following:
 

SD-01 - Preconstruction	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 - O&M Data	SD-11 - Closeout	
9. For each submittal item, the Contractor will assign Submittal Action Codes in column g of Section I. The U.S. Army Corps of Engineers approving authority will assign Submittal Action Codes in column i of Section I. The Submittal Action Codes are:
 

A -- Approved as submitted. B -- Approved, except as noted on drawings. Resubmission not required. C -- Approved, except as noted on drawings. Refer to attached comments. Resubmission required. D -- Will be returned by separate correspondence. E -- Disapproved. Refer to attached comments.	F -- Receipt acknowledged. X -- Receipt acknowledged, does not comply with contract requirements, as noted. G -- Other action required ( <i>Specify</i> ) K -- Government concurs with intermediate design. ( <i>For D-B contracts</i> ) R -- Design submittal is acceptable for release for construction. ( <i>For D-B contracts</i> )
--	---
10. Approval of items does not relieve the contractor from complying with all the requirements of the contract.

# ROUTING OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES OR MANUFACTURER'S CERTIFICATES OF COMPLIANCE FOR APPROVAL

For use of this form, see ER 415-1-10; the proponent agency is CEMP-CE.  
(Used to route ENG Form 4025 with items attached. Not to become a part of the Contractor's record.)

<b>1</b>	a. TO	b. FROM						
<b>2</b>	THE ATTACHED ITEMS LISTED ON ENG FORM 4025 ARE FORWARDED FOR APPROVAL ACTION.							
	c. CONTRACT NUMBER		d. CONTRACTOR					
	e. TRANSMITTAL NUMBER		f. PROJECT TITLE AND LOCATION					
	g. COMMENTS (Attach additional sheets if necessary)							
	h. NUMBER OF ENCLOSURES	i. DATE (YYYYMMDD)	j. NAME (Last, First MI) AND TITLE	k. SIGNATURE				
<b>3</b>	a. TO	b. FROM						
<b>4</b>	c. COMMENTS (Attach additional sheets if necessary)							
	d. NUMBER OF ENCLOSURES	e. DATE (YYYYMMDD)	f. NAME (Last, First MI) AND TITLE	g. SIGNATURE				
	THE FOLLOWING ACTION CODES ARE GIVEN TO ITEMS LISTED ON ENG FORM 4025.							
<b>ACTIONS CODES</b> A - APPROVED AS SUBMITTED. B - APPROVED, EXCEPT AS NOTED ON DRAWINGS. RESUBMISSION NOT REQUIRED. C - APPROVED, EXCEPT AS NOTED ON DRAWINGS. REFER TO ATTACHED SHEET. RESUBMISSION REQUIRED.		D - WILL BE RETURNED BY SEPARATE CORRESPONDENCE. E - DISAPPROVED (SEE ATTACHED). F - RECEIPT ACKNOWLEDGED. FX - RECEIPT ACKNOWLEDGED, DOES NOT COMPLY AS NOTED WITH CONTRACT REQUIREMENTS. G - OTHER (specify).						
c. ACTION CODES TO BE INSERTED IN COLUMN G, SECTION I, ENG FORM 4025 (Attach additional sheets, when required)								
(1) ITEM NO. (Taken from ENG Form 4025)								
(2) CODE GIVEN								
d. REMARKS								
e. NUMBER OF ENCLOSURES		f. DATE (YYYYMMDD)	g. NAME (Last, First MI) AND TITLE		h. SIGNATURE			

**This page was intentionally left blank for duplex printing.**



SUBMITTAL REGISTER											CONTRACT NO.						
TITLE AND LOCATION FY22 MRRP Jameson Chute						CONTRACTOR											
ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAGRAPH	GOVT CLASSIFICATION REVIEW	CONTRACTOR: SCHEDULE DATES			CONTRACTOR ACTION		APPROVING AUTHORITY						REMARKS
						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ DATE RCD FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE	DATE OF ACTION	MAILED TO CONTR/ DATE RCD FRM APPR AUTH	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		01 32 16.01 23	SD-07 Certificates														
			Progress Schedule	2.1	G RO												
		01 33 00	SD-01 Preconstruction Submittals														
			Submittal Register	1.12	G RO												
		01 35 26	SD-01 Preconstruction Submittals														
			Accident Prevention Plan (APP)	1.7	G RO												
			SD-06 Test Reports														
			Monthly Exposure Reports	1.4													
			Notifications and Reports	1.12													
			Accident Reports	1.12.2	G RO												
			LHE Inspection Reports	1.12.3													
			SD-07 Certificates														
			Standard Lift Plan	1.7.3.1	G RO												
			Critical Lift Plan	1.7.3.2	G RO												
			Activity Hazard Analysis (AHA)	1.8													
			Certificate of Compliance	1.12.4													
		01 45 00.00 10	SD-01 Preconstruction Submittals														
			Contractor Quality Control (CQC)	3.2	G RO												
			Plan														
			Verification Statement	3.8.2													
		01 50 00	SD-01 Preconstruction Submittals														
			Construction Site Plan	1.3	G RO												
			Traffic Control Plan	2.2.1	G RO												
			Contractor Computer	1.4.1.4	G RO												
			Cybersecurity Compliance														
			Statements														

SUBMITTAL REGISTER											CONTRACT NO.						
TITLE AND LOCATION FY22 MRRP Jameson Chute						CONTRACTOR											
ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAGRAPH	GOVT CLASSIFICATION REVIEW	CONTRACTOR: SCHEDULE DATES			CONTRACTOR ACTION		APPROVING AUTHORITY						REMARKS
						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ DATE RCD FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE	DATE OF ACTION	MAILED TO CONTR/ DATE RCD FRM APPR AUTH	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		01 50 00	Contractor Temporary Network Cybersecurity Compliance Statements	1.4.5	G RO												
		01 57 19	SD-01 Preconstruction Submittals														
			Environmental Protection Plan	1.7	G RO												
			SD-07 Certificates														
			Employee Training Records	1.6.1	G RO												
			SD-11 Closeout Submittals														
			Waste Determination Documentation	3.6.1	G RO												
			Hazardous Waste/Debris Management	3.6.3.1	G RO												
		01 78 00	SD-11 Closeout Submittals														
			As-Built Drawings	3.1	G RO												
		31 00 00	SD-01 Preconstruction Submittals														
			Plan of Operations	3.1	G DO												
		31 11 00	SD-01 Preconstruction Submittals														
			Herbicide Application Plan	3.1.1													
			SD-03 Product Data														
			Herbicides	1.3.2													
			SD-07 Certificates														
			Qualifications	1.3.2													
		32 92 19	SD-03 Product Data														
			Wood Cellulose Fiber Mulch	2.2.3													
			SD-07 Certificates														
			Seed	2.1	G RO												

CONTRACT NO.

CONTRACTOR
------------

CONTRACTOR: SCHEDULE DATES	CONTRACTOR ACTION		APPROVING AUTHORITY		
-------------------------------	----------------------	--	---------------------	--	--

[illegible]

**This page was intentionally left blank for duplex printing.**

SECTION TABLE OF CONTENTS

DIVISION 01 - GENERAL REQUIREMENTS

SECTION 01 35 26

GOVERNMENTAL SAFETY REQUIREMENTS

11/20, CHG 2: 11/21

PART 1 GENERAL

- 1.1 REFERENCES
- 1.2 DEFINITIONS
  - 1.2.1 Competent Person (CP)
  - 1.2.2 Competent Person, Confined Space
  - 1.2.3 Competent Person, Cranes and Rigging
  - 1.2.4 Competent Person, Excavation/Trenching
  - 1.2.5 Competent Person, Fall Protection
  - 1.2.6 Competent Person (CP) Trainer
  - 1.2.7 High Risk Activities
  - 1.2.8 High Visibility Accident
  - 1.2.9 Load Handling Equipment (LHE)
  - 1.2.10 Medical Treatment
  - 1.2.11 Near Miss
  - 1.2.12 Operating Envelope
  - 1.2.13 Qualified Person (QP)
  - 1.2.14 Qualified Person, Fall Protection (QP for FP)
  - 1.2.15 Recordable Injuries or Illnesses
  - 1.2.16 Government Property and Equipment
  - 1.2.17 Load Handling Equipment (LHE) Accident or Load Handling Equipment Mishap
- 1.3 SUBMITTALS
- 1.4 MONTHLY EXPOSURE REPORTS
- 1.5 REGULATORY REQUIREMENTS
- 1.6 SITE QUALIFICATIONS, DUTIES, AND MEETINGS
  - 1.6.1 Personnel Qualifications
    - 1.6.1.1 Site Safety and Health Officer (SSHO)
      - 1.6.1.1.1 Additional Site Safety and Health Officer (SSHO) Requirements and Duties
    - 1.6.1.2 Competent Person Qualifications
      - 1.6.1.2.1 Competent Person for Fall Protection
    - 1.6.1.3 Qualified Trainer Requirements
  - 1.6.2 Personnel Duties
    - 1.6.2.1 Duties of the Site Safety and Health Officer (SSHO)
  - 1.6.3 Meetings
    - 1.6.3.1 Preconstruction Conference
    - 1.6.3.2 Safety Meetings
- 1.7 ACCIDENT PREVENTION PLAN (APP)
  - 1.7.1 APP - Construction
  - 1.7.2 Names and Qualifications
  - 1.7.3 Plans
    - 1.7.3.1 Standard Lift Plan (SLP)
    - 1.7.3.2 Critical Lift Plan - Crane or Load Handling Equipment
      - 1.7.3.2.1 Critical Lift Plan Planning and Schedule
      - 1.7.3.2.2 Lifts of Personnel

- 1.7.3.3 Barge Mounted Mobile Crane Lift Plan
  - 1.7.3.4 Multi-Purpose Machines, Material Handling Equipment, and Construction Equipment Lift Plan
  - 1.7.3.5 Fall Protection and Prevention (FP&P) Plan
  - 1.7.3.6 Rescue and Evacuation Plan
  - 1.7.3.7 Hazardous Energy Control Program (HECP)
  - 1.7.3.8 Excavation Plan
  - 1.8 ACTIVITY HAZARD ANALYSIS (AHA)
    - 1.8.1 AHA Management
    - 1.8.2 AHA Signature Log
  - 1.9 DISPLAY OF SAFETY INFORMATION
    - 1.9.1 Safety Bulletin Board
    - 1.9.2 Safety and Occupational Health (SOH) Deficiency Tracking System
  - 1.10 SITE SAFETY REFERENCE MATERIALS
  - 1.11 EMERGENCY MEDICAL TREATMENT
  - 1.12 NOTIFICATIONS and REPORTS
    - 1.12.1 Mishap Notification
    - 1.12.2 Accident Reports
    - 1.12.3 LHE Inspection Reports
    - 1.12.4 Certificate of Compliance and Pre-lift Plan/Checklist for LHE and Rigging
  - 1.13 SEVERE STORM PLAN
- PART 2 PRODUCTS
- PART 3 EXECUTION
- 3.1 CONSTRUCTION AND OTHER WORK
    - 3.1.1 Worksite Communication
    - 3.1.2 Hazardous Material Exclusions
    - 3.1.3 Unforeseen Hazardous Material
  - 3.2 FALL PROTECTION PROGRAM
    - 3.2.1 Training
    - 3.2.2 Fall Protection Equipment and Systems
      - 3.2.2.1 Additional Personal Fall Protection Measures
      - 3.2.2.2 Personal Fall Protection Equipment
    - 3.2.3 Horizontal Lifelines (HLL)
    - 3.2.4 Guardrails and Safety Nets
    - 3.2.5 Rescue and Evacuation Plan and Procedures
  - 3.3 EQUIPMENT
    - 3.3.1 Material Handling Equipment (MHE)
    - 3.3.2 Load Handling Equipment (LHE)
    - 3.3.3 Machinery and Mechanized Equipment
    - 3.3.4 Use of Explosives
  - 3.4 EXCAVATIONS
    - 3.4.1 Utility Locations
    - 3.4.2 Utility Location Verification
  - 3.5 ELECTRICAL
    - 3.5.1 Portable Extension Cords

-- End of Section Table of Contents --

SECTION 01 35 26

GOVERNMENTAL SAFETY REQUIREMENTS  
11/20, CHG 2: 11/21

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)

ASME B30.3	(2020) Tower Cranes
ASME B30.5	(2018) Mobile and Locomotive Cranes
ASME B30.8	(2020) Floating Cranes and Floating Derricks
ASME B30.9	(2018) Slings
ASME B30.20	(2018) Below-the-Hook Lifting Devices
ASME B30.22	(2016) Articulating Boom Cranes
ASME B30.26	(2015; R 2020) Rigging Hardware

AMERICAN SOCIETY OF SAFETY PROFESSIONALS (ASSP)

ASSP A10.34	(2021) Protection of the Public on or Adjacent to Construction Sites
ASSP A10.44	(2020) Control of Energy Sources (Lockout/Tagout) for Construction and Demolition Operations
ASSP Z244.1	(2016) The Control of Hazardous Energy Lockout, Tagout and Alternative Methods
ASSP Z359.0	(2018) Definitions and Nomenclature Used for Fall Protection and Fall Arrest
ASSP Z359.1	(2020) The Fall Protection Code
ASSP Z359.2	(2017) Minimum Requirements for a Comprehensive Managed Fall Protection Program
ASSP Z359.3	(2019) Safety Requirements for Lanyards and Positioning Lanyards
ASSP Z359.4	(2013) Safety Requirements for Assisted-Rescue and Self-Rescue Systems, Subsystems and Components

ASSP Z359.6	(2016) Specifications and Design Requirements for Active Fall Protection Systems
ASSP Z359.7	(2019) Qualification and Verification Testing of Fall Protection Products
ASSP Z359.11	(2014) Safety Requirements for Full Body Harnesses
ASSP Z359.12	(2019) Connecting Components for Personal Fall Arrest Systems
ASSP Z359.13	(2013) Personal Energy Absorbers and Energy Absorbing Lanyards
ASSP Z359.14	(2014) Safety Requirements for Self-Retracting Devices for Personal Fall Arrest and Rescue Systems
ASSP Z359.15	(2014) Safety Requirements for Single Anchor Lifelines and Fall Arresters for Personal Fall Arrest Systems
ASSP Z359.16	(2016) Safety Requirements for Climbing Ladder Fall Arrest Systems
ASSP Z359.18	(2017) Safety Requirements for Anchorage Connectors for Active Fall Protection Systems

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 10	(2018; ERTA 1-2 2018) Standard for Portable Fire Extinguishers
NFPA 70	(2020; ERTA 20-1 2020; ERTA 20-2 2020; TIA 20-1; TIA 20-2; TIA 20-3; TIA 20-4) National Electrical Code
NFPA 70E	(2021) Standard for Electrical Safety in the Workplace
NFPA 241	(2022) Standard for Safeguarding Construction, Alteration, and Demolition Operations

U.S. ARMY CORPS OF ENGINEERS (USACE)

EM 385-1-1	(2014) Safety -- Safety and Health Requirements Manual
------------	--

U.S. NATIONAL ARCHIVES AND RECORDS ADMINISTRATION (NARA)

29 CFR 1910	Occupational Safety and Health Standards
29 CFR 1910.146	Permit-required Confined Spaces



29 CFR 1910.147	The Control of Hazardous Energy (Lock Out/Tag Out)
29 CFR 1910.333	Selection and Use of Work Practices
29 CFR 1915.89	Control of Hazardous Energy (Lockout/Tags-Plus)
29 CFR 1926	Safety and Health Regulations for Construction
29 CFR 1926.16	Rules of Construction
29 CFR 1926.450	Scaffolds
29 CFR 1926.500	Fall Protection
29 CFR 1926.1400	Cranes and Derricks in Construction

## 1.2 DEFINITIONS

### 1.2.1 Competent Person (CP)

The CP is a person designated in writing, who, through training, knowledge and experience, is capable of identifying, evaluating, and addressing existing and predictable hazards in the working environment or working conditions that are dangerous to personnel, and who has authorization to take prompt corrective measures with regards to such hazards.

### 1.2.2 Competent Person, Confined Space

The CP, Confined Space, is a person meeting the competent person requirements as defined EM 385-1-1 Appendix Q, with thorough knowledge of OSHA's Confined Space Standard, 29 CFR 1910.146, and designated in writing to be responsible for the immediate supervision, implementation and monitoring of the confined space program, who through training, knowledge and experience in confined space entry is capable of identifying, evaluating and addressing existing and potential confined space hazards and, who has the authority to take prompt corrective measures with regard to such hazards.

### 1.2.3 Competent Person, Cranes and Rigging

The CP, Cranes and Rigging, as defined in EM 385-1-1 Appendix Q, is a person meeting the competent person, who has been designated in writing to be responsible for the immediate supervision, implementation and monitoring of the Crane and Rigging Program, who through training, knowledge and experience in crane and rigging is capable of identifying, evaluating and addressing existing and potential hazards and, who has the authority to take prompt corrective measures with regard to such hazards.

### 1.2.4 Competent Person, Excavation/Trenching

A CP, Excavation/Trenching, is a person meeting the competent person requirements as defined in EM 385-1-1 Appendix Q and 29 CFR 1926, who has been designated in writing to be responsible for the immediate supervision, implementation and monitoring of the excavation/trenching program, who through training, knowledge and experience in excavation/trenching is capable of identifying, evaluating and addressing existing and potential

hazards and, who has the authority to take prompt corrective measures with regard to such hazards.

#### 1.2.5 Competent Person, Fall Protection

The CP, Fall Protection, is a person meeting the competent person requirements as defined in EM 385-1-1 Appendix Q and in accordance with ASSP Z359.0, who has been designated in writing by the employer to be responsible for immediate supervising, implementing and monitoring of the fall protection program, who through training, knowledge and experience in fall protection and rescue systems and equipment, is capable of identifying, evaluating and addressing existing and potential fall hazards and, who has the authority to take prompt corrective measures with regard to such hazards.

#### 1.2.6 Competent Person (CP) Trainer

A competent person trainer as defined in EM 385-1-1 Appendix Q, who is qualified in the training material presented, and who possesses a working knowledge of applicable technical regulations, standards, equipment and systems related to the subject matter on which they are training Competent Persons. A competent person trainer must be familiar with the typical hazards and the equipment used in the industry they are instructing. The training provided by the competent person trainer must be appropriate to that specific industry. The competent person trainer must evaluate the knowledge and skills of the competent persons as part of the training process.

#### 1.2.7 High Risk Activities

High Risk Activities are activities that involve work at heights, crane and rigging, excavations and trenching, scaffolding, electrical work, and confined space entry.

#### 1.2.8 High Visibility Accident

A High Visibility Accident is any mishap which may generate publicity or high visibility.

#### 1.2.9 Load Handling Equipment (LHE)

LHE is a term used to describe cranes, hoists and all other hoisting equipment (hoisting equipment means equipment, including crane, derricks, hoists and power operated equipment used with rigging to raise, lower or horizontally move a load).

#### 1.2.10 Medical Treatment

Medical Treatment is treatment administered by a physician or by registered professional personnel under the standing orders of a physician. Medical treatment does not include first aid treatment even when provided by a physician or registered personnel.

#### 1.2.11 Near Miss

A Near Miss is a mishap resulting in no personal injury and zero property damage, but given a shift in time or position, damage or injury may have occurred (e.g., a worker falls off a scaffold and is not injured; a crane swings around to move the load and narrowly misses a parked vehicle).

#### 1.2.12 Operating Envelope

The Operating Envelope is the area surrounding any crane or load handling equipment. Inside this "envelope" is the crane, the operator, riggers and crane walkers, other personnel involved in the operation, rigging gear between the hook, the load, the crane's supporting structure (i.e. ground or rail), the load's rigging path, the lift and rigging procedure.

#### 1.2.13 Qualified Person (QP)

The QP is a person designated in writing, who, by possession of a recognized degree, certificate, or professional standing, or extensive knowledge, training, and experience, has successfully demonstrated their ability to solve or resolve problems related to the subject matter, the work, or the project.

#### 1.2.14 Qualified Person, Fall Protection (QP for FP)

A QP for FP is a person meeting the definition requirements of EM 385-1-1 Appendix Q, and ASSP Z359.2 standard, having a recognized degree or professional certificate and with extensive knowledge, training and experience in the fall protection and rescue field who is capable of designing, analyzing, and evaluating and specifying fall protection and rescue systems.

#### 1.2.15 Recordable Injuries or Illnesses

Recordable Injuries or Illnesses are any work-related injury or illness that results in:

- a. Death, regardless of the time between the injury and death, or the length of the illness;
- b. Days away from work (any time lost after day of injury/illness onset);
- c. Restricted work;
- d. Transfer to another job;
- e. Medical treatment beyond first aid;
- f. Loss of consciousness; or
- g. A significant injury or illness diagnosed by a physician or other licensed health care professional, even if it did not result in (a) through (f) above

#### 1.2.16 Government Property and Equipment

Interpret "USACE" property and equipment specified in USACE EM 385-1-1 as Government property and equipment.

#### 1.2.17 Load Handling Equipment (LHE) Accident or Load Handling Equipment Mishap

A LHE accident occurs when any one or more of the eight elements in the operating envelope fails to perform correctly during operation, including operation during maintenance or testing resulting in personnel injury or

death; material or equipment damage; dropped load; derailment; two-blocking; overload; or collision, including unplanned contact between the load, crane, or other objects. A dropped load, derailment, two-blocking, overload and collision are considered accidents, even though no material damage or injury occurs. A component failure (e.g., motor burnout, gear tooth failure, bearing failure) is not considered an accident solely due to material or equipment damage unless the component failure results in damage to other components (e.g., dropped boom, dropped load, or roll over). Document an LHE mishap using the Crane High Hazard working group mishap reporting form.

### 1.3 SUBMITTALS

Government approval is required for submittals with a "G" or "S" classification. Submittals not having a "G" or "S" classification are for information only. When used, a code following the "G" classification identifies the office that will review the submittal for the Government. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

#### SD-01 Preconstruction Submittals

Accident Prevention Plan (APP); G, RO

#### SD-06 Test Reports

Monthly Exposure Reports

Notifications and Reports

Submit reports as their incidence occurs, in accordance with the requirements of the paragraph, "Notifications and Reports."

Accident Reports; G, RO

LHE Inspection Reports

#### SD-07 Certificates

Crane Operators/Riggers

Standard Lift Plan; G, RO

Critical Lift Plan ; G, RO

Activity Hazard Analysis (AHA)

Certificate of Compliance

### 1.4 MONTHLY EXPOSURE REPORTS

Provide a Monthly Exposure Report and attach to the monthly billing request. This report is a compilation of employee-hours worked each month for all site workers, both Prime and subcontractor. Failure to submit the report may result in retention of up to 10 percent of the voucher.

### 1.5 REGULATORY REQUIREMENTS

In addition to the detailed requirements included in the provisions of this

Contract, comply with the most recent edition of USACE EM 385-1-1, and the following federal, state, and local laws, ordinances, criteria, rules and regulations. Submit matters of interpretation of standards to the appropriate administrative agency for resolution before starting work. Where the requirements of this specification, applicable laws, criteria, ordinances, regulations, and referenced documents vary, the most stringent requirements govern.

#### 1.6 SITE QUALIFICATIONS, DUTIES, AND MEETINGS

##### 1.6.1 Personnel Qualifications

##### 1.6.1.1 Site Safety and Health Officer (SSHO)

Provide an SSHO that meets the requirements of EM 385-1-1 Section 1. The SSHO must ensure that the requirements of 29 CFR 1926.16 are met for the project. Provide a Safety oversight team that includes a minimum of one person at each project site to function as the Site Safety and Health Officer (SSHO). The SSHO or an equally-qualified Alternate SSHO must be at the work site at all times to implement and administer the Contractor's safety program and Government-accepted Accident Prevention Plan. The SSHO and Alternate SSHO must have the required training, experience, and qualifications in accordance with EM 385-1-1 Section 01.A.17, and all associated sub-paragraphs.

If the SSHO is off-site for a period longer than 24 hours, an equally-qualified alternate SSHO must be provided and must fulfill the same roles and responsibilities as the primary SSHO. When the SSHO is temporarily (up to 24 hours) off-site, a Designated Representative (DR), as identified in the AHA may be used in lieu of an Alternate SSHO, and must be on the project site at all times when work is being performed. Note that the DR is a collateral duty safety position, with safety duties in addition to their full time occupation.

##### 1.6.1.1.1 Additional Site Safety and Health Officer (SSHO) Requirements and Duties

The SSHO may also serve as the Quality Control Manager. The SSHO may not serve as the Superintendent.

##### 1.6.1.2 Competent Person Qualifications

Provide Competent Persons in accordance with EM 385-1-1, Appendix Q and herein. Competent Persons for high risk activities include confined space, cranes and rigging, excavation/trenching, fall protection, and electrical work. The CP for these activities must be designated in writing, and meet the requirements for the specific activity (i.e. competent person, fall protection).

The Competent Person identified in the Contractor's Safety and Health Program and accepted Accident Prevention Plan, must be on-site at all times when the work that presents the hazards associated with their professional expertise is being performed. Provide the credentials of the Competent Persons(s) to the Contracting Officer for information in consultation with the Safety Office.

##### 1.6.1.2.1 Competent Person for Fall Protection

Provide a Competent Person for Fall Protection who meets the requirements

of EM 385-1-1, Section 21.C.04, 21.B.03, and herein.

#### 1.6.1.3 Qualified Trainer Requirements

Individuals qualified to instruct the 40 hour contract safety awareness course, or portions thereof, must meet the definition of a Competent Person Trainer, and, at a minimum, possess a working knowledge of the following subject areas: EM 385-1-1, Electrical Standards, Lockout/Tagout, Fall Protection, Confined Space Entry for Construction; Excavation, Trenching and Soil Mechanics, and Scaffolds in accordance with 29 CFR 1926.450, Subpart L.

Instructors are required to:

- a. Prepare class presentations that cover construction-related safety requirements.
- b. Ensure that all attendees attend all sessions by using a class roster signed daily by each attendee. Maintain copies of the roster for at least five years. This is a certification class and must be attended 100 percent. In cases of emergency where an attendee cannot make it to a session, the attendee can make it up in another class session for the same subject.
- c. Update training course materials whenever an update of the EM 385-1-1 becomes available.
- d. Provide a written exam of at least 50 questions. Students are required to answer 80 percent correctly to pass.
- e. Request, review and incorporate student feedback into a continuous course improvement program.

#### 1.6.2 Personnel Duties

##### 1.6.2.1 Duties of the Site Safety and Health Officer (SSHO)

The SSHO must:

- a. Conduct daily safety and health inspections and maintain a written log which includes area/operation inspected, date of inspection, identified hazards, recommended corrective actions, estimated and actual dates of corrections. Attach safety inspection logs to the Contractors' daily production report.
- b. Conduct mishap investigations and complete required accident reports. Report mishaps and near misses.
- c. Use and maintain OSHA's Form 300 to log work-related injuries and illnesses occurring on the project site for Prime Contractors and subcontractors, and make available to the Contracting Officer upon request. Post and maintain the Form 300A on the site Safety Bulletin Board.
- d. Maintain applicable safety reference material on the job site.
- e. Attend the pre-construction conference, pre-work meetings including preparatory meetings, and periodic in-progress meetings.

- f. Review the APP and AHAs for compliance with EM 385-1-1, and approve, sign, implement and enforce them.
- g. Establish a Safety and Occupational Health (SOH) Deficiency Tracking System that lists and monitors outstanding deficiencies until resolution.
- h. Ensure subcontractor compliance with safety and health requirements.
- i. Maintain a list of hazardous chemicals on site and their material Safety Data Sheets (SDS).
- j. Maintain a weekly list of high hazard activities involving energy, equipment, excavation, entry into confined space, and elevation, and be prepared to discuss details during QC Meetings.
- k. Provide and keep a record of site safety orientation and indoctrination for Contractor employees, subcontractor employees, and site visitors.

Superintendent, QC Manager, and SSHO are subject to dismissal if the above or any other required duties are not being effectively carried out. If either the Superintendent, QC Manager, or SSHO are dismissed, project work will be stopped and will not be allowed to resume until a suitable replacement is approved and the above duties are again being effectively carried out.

#### 1.6.3 Meetings

##### 1.6.3.1 Preconstruction Conference

- a. Contractor representatives who have a responsibility or significant role in accident prevention on the project must attend the preconstruction conference. This includes the project superintendent, Site Safety and Occupational Health Officer, quality control manager, or any other assigned safety and health professionals who participated in the development of the APP (including the Activity Hazard Analyses (AHAs) and special plans, program and procedures associated with it).
- b. Discuss the details of the submitted APP to include incorporated plans, programs, procedures and a listing of anticipated AHAs that will be developed and implemented during the performance of the Contract. This list of proposed AHAs will be reviewed and an agreement will be reached between the Contractor and the Contracting Officer as to which phases will require an analysis. In addition, establish a schedule for the preparation, submittal, and Government review of AHAs to preclude project delays.
- c. Deficiencies in the submitted APP, identified during the Contracting Officer's review, must be corrected, and the APP re-submitted for review prior to the start of construction. Work is not permitted to begin until an APP is established that is acceptable to the Contracting Officer.

##### 1.6.3.2 Safety Meetings

Conduct safety meetings to review past activities, plan for new or changed operations, review pertinent aspects of appropriate AHA (by trade), establish safe working procedures for anticipated hazards, and provide pertinent Safety and Occupational Health (SOH) training and motivation.

Conduct meetings at least once a month for all supervisors at the project location. The SSHO, supervisors, foremen, or CDSOs must conduct meetings at least once a week for the trade workers. Document meeting minutes to include the date, persons in attendance, subjects discussed, and names of individual(s) who conducted the meeting. Maintain documentation on-site and furnish copies to the Contracting Officer on request. Notify the Contracting Officer of all scheduled meetings 7 calendar days in advance.

#### 1.7 ACCIDENT PREVENTION PLAN (APP)

##### 1.7.1 APP - Construction

A qualified person must prepare the written site-specific APP. Prepare the APP in accordance with the format and requirements of EM 385-1-1, Appendix A, and as supplemented herein. Cover all paragraph and subparagraph elements in EM 385-1-1, Appendix A. The APP must be job-specific and address any unusual or unique aspects of the project or activity for which it is written. The APP must interface with the Contractor's overall safety and health program referenced in the APP in the applicable APP element, and made site-specific. Describe the methods to evaluate past safety performance of potential subcontractors in the selection process. Also, describe innovative methods used to ensure and monitor safe work practices of subcontractors. The Government considers the Prime Contractor to be the "controlling authority" for all work site safety and health of the subcontractors. Contractors are responsible for informing their subcontractors of the safety provisions under the terms of the Contract and the penalties for noncompliance, coordinating the work to prevent one craft from interfering with or creating hazardous working conditions for other crafts, and inspecting subcontractor operations to ensure that accident prevention responsibilities are being carried out. The APP must be signed by an officer of the firm (Prime Contractor senior person), the individual preparing the APP, the on-site superintendent, the designated SSHO, the Contractor Quality Control Manager, and any designated Certified Safety Professional (CSP) or Certified Health Physicist (CIH). The SSHO must provide and maintain the APP and a log of signatures by each subcontractor foreman, attesting that they have read and understand the APP, and make the APP and log available on-site to the Contracting Officer. If English is not the foreman's primary language, the Prime Contractor must provide an interpreter.

Submit the APP to the Contracting Officer within 15 calendar days of Contract award and not less than 10 calendar days prior to the date of the preconstruction conference for acceptance. Work cannot proceed without an accepted APP. Once reviewed and accepted by the Contracting Officer, the APP and attachments will be enforced as part of the Contract. Disregarding the provisions of this Contract or the accepted APP is cause for stopping of work, at the discretion of the Contracting Officer, until the matter has been rectified. Continuously review and amend the APP, as necessary, throughout the life of the Contract. Changes to the accepted APP must be made with the knowledge and concurrence of the Contracting Officer, project superintendent, SSHO and Quality Control Manager. Incorporate unusual or high-hazard activities not identified in the original APP as they are discovered. Should any severe hazard exposure (i.e. imminent danger) become evident, stop work in the area, secure the area, and develop a plan to remove the exposure and control the hazard. Notify the Contracting Officer within 24 hours of discovery. Eliminate and remove the hazard. In the interim, take all necessary action to restore and maintain safe working conditions in order to safeguard onsite personnel, visitors, the public (as defined by ASSP A10.34), and the environment.



#### 1.7.2 Names and Qualifications

Provide plans in accordance with the requirements outlined in Appendix A of EM 385-1-1, including the following:

- a. Names and qualifications (resumes including education, training, experience and certifications) of site safety and health personnel designated to perform work on this project to include the designated Site Safety and Health Officer and other competent and qualified personnel to be used. Specify the duties of each position.
- b. Qualifications of competent and of qualified persons. As a minimum, designate and submit qualifications of competent persons for each of the following major areas: excavation; scaffolding; fall protection; hazardous energy; confined space; health hazard recognition, evaluation and control of chemical, physical and biological agents; and personal protective equipment and clothing to include selection, use and maintenance.

#### 1.7.3 Plans

Provide plans in the APP in accordance with the requirements outlined in Appendix A of EM 385-1-1, including the following:

##### 1.7.3.1 Standard Lift Plan (SLP)

Plan lifts to avoid situations where the operator cannot maintain safe control of the lift. Prepare a written SLP in accordance with EM 385-1-1, Section 16.A.03, using Form 16-2 for every lift or series of lifts (if duty cycle or routine lifts are being performed). The SLP must be developed, reviewed and accepted by all personnel involved in the lift in conjunction with the associated AHA. Signature on the AHA constitutes acceptance of the plan. Maintain the SLP on the LHE for the current lift(s) being made. Maintain historical SLPs for a minimum of three months.

##### 1.7.3.2 Critical Lift Plan - Crane or Load Handling Equipment

Provide a Critical Lift Plan as required by EM 385-1-1, Section 16.H.01, using Form 16-3. In addition, Critical Lift Plans are required for the following:

- a. Lifts over 50 percent of the capacity of barge mounted mobile crane's hoist.
- b. When working around energized power lines where the work will get closer than the minimum clearance distance in EM 385-1-1 Table 16-1.
- c. For lifts with anticipated binding conditions.
- d. When erecting cranes.

##### 1.7.3.2.1 Critical Lift Plan Planning and Schedule

Critical lifts require detailed planning and additional or unusual safety precautions. Develop and submit a critical lift plan to the Contracting Officer 30 calendar days prior to critical lift. Comply with load testing requirements in accordance with EM 385-1-1, Section 16.F.03.

#### 1.7.3.2.2 Lifts of Personnel

In addition to the requirements of EM 385-1-1, Section 16.H.02, for lifts of personnel, demonstrate compliance with the requirements of 29 CFR 1926.1400 and EM 385-1-1, Section 16.T.

#### 1.7.3.3 Barge Mounted Mobile Crane Lift Plan

Provide a LHE Manufacturer's Floating Service Load Chart in accordance with EM 385-1-1, Section 16.L.03.

#### 1.7.3.4 Multi-Purpose Machines, Material Handling Equipment, and Construction Equipment Lift Plan

Multi-purpose machines, material handling equipment, and construction equipment used to lift loads that are suspended by rigging gear, require proof of authorization from the machine OEM that the machine is capable of making lifts of loads suspended by rigging equipment. Written approval from a qualified registered professional engineer, after a safety analysis is performed, is allowed in lieu of the OEM's approval. Demonstrate that the operator is properly trained and that the equipment is properly configured to make such lifts and is equipped with a load chart.

#### 1.7.3.5 Fall Protection and Prevention (FP&P) Plan

The plan must be in accordance with the requirements of EM 385-1-1, Section 21.D and ASSP Z359.2, be site specific, and address all fall hazards in the work place and during different phases of construction. Address how to protect and prevent workers from falling to lower levels when they are exposed to fall hazards above 6 feet. A competent person or qualified person for fall protection must prepare and sign the plan documentation. Include fall protection and prevention systems, equipment and methods employed for every phase of work, roles and responsibilities, assisted rescue, self-rescue and evacuation procedures, training requirements, and monitoring methods. Review and revise, as necessary, the Fall Protection and Prevention Plan documentation as conditions change, but at a minimum every six months, for lengthy projects, reflecting any changes during the course of construction due to changes in personnel, equipment, systems or work habits. Keep and maintain the accepted Fall Protection and Prevention Plan documentation at the job site for the duration of the project. Include the Fall Protection and Prevention Plan documentation in the Accident Prevention Plan (APP).

#### 1.7.3.6 Rescue and Evacuation Plan

Provide a Rescue and Evacuation Plan in accordance with EM 385-1-1 Section 21.N and ASSP Z359.2, and include in the FP&P Plan and as part of the APP. Include a detailed discussion of the following: methods of rescue; methods of self-rescue; equipment used; training requirement; specialized training for the rescuers; procedures for requesting rescue and medical assistance; and transportation routes to a medical facility.

#### 1.7.3.7 Hazardous Energy Control Program (HECP)

Develop a HECP in accordance with EM 385-1-1 Section 12, 29 CFR 1910.147, 29 CFR 1910.333, 29 CFR 1915.89, ASSP Z244.1, and ASSP A10.44. Submit this HECP as part of the Accident Prevention Plan (APP). Conduct a preparatory meeting and inspection with all effected personnel to coordinate all HECP activities. Document this meeting and inspection in accordance with

EM 385-1-1, Section 12.A.02. Ensure that each employee is familiar with and complies with these procedures.

#### 1.7.3.8 Excavation Plan

Identify the safety and health aspects of excavation, and provide and prepare the plan in accordance with EM 385-1-1, Section 25.A.

### 1.8 ACTIVITY HAZARD ANALYSIS (AHA)

Before beginning each activity, task or Definable Feature of Work (DFOW) involving a type of work presenting hazards not experienced in previous project operations, or where a new work crew or subcontractor is to perform the work, the Contractor(s) performing that work activity must prepare an AHA. AHAs must be developed by the Prime Contractor, subcontractor, or supplier performing the work, and provided for Prime Contractor review and approval before submitting to the Contracting Officer. AHAs must be signed by the SSHO, Superintendent, QC Manager and the subcontractor Foreman performing the work. Format the AHA in accordance with EM 385-1-1, Section 1 or as directed by the Contracting Officer. Submit the AHA for review at least 15 working days prior to the start of each activity task, or DFOW. The Government reserves the right to require the Contractor to revise and resubmit the AHA if it fails to effectively identify the work sequences, specific anticipated hazards, site conditions, equipment, materials, personnel and the control measures to be implemented.

AHAs must identify competent persons required for phases involving high risk activities, including confined entry, crane and rigging, excavations, trenching, electrical work, fall protection, and scaffolding.

#### 1.8.1 AHA Management

Review the AHA list periodically (at least monthly) at the Contractor supervisory safety meeting, and update as necessary when procedures, scheduling, or hazards change. Use the AHA during daily inspections by the SSHO to ensure the implementation and effectiveness of the required safety and health controls for that work activity.

#### 1.8.2 AHA Signature Log

Each employee performing work as part of an activity, task or DFOW must review the AHA for that work and sign a signature log specifically maintained for that AHA prior to starting work on that activity. The SSHO must maintain a signature log on site for every AHA. Provide employees whose primary language is other than English, with an interpreter to ensure a clear understanding of the AHA and its contents.

### 1.9 DISPLAY OF SAFETY INFORMATION

#### 1.9.1 Safety Bulletin Board

Prior to commencement of work, erect a safety bulletin board at the job site. Where size, duration, or logistics of project do not facilitate a bulletin board, an alternative method, acceptable to the Contracting Officer, that is accessible and includes all mandatory information for employee and visitor review, may be deemed as meeting the requirement for a bulletin board. Include and maintain information on safety bulletin board as required by EM 385-1-1, Section 01.A.07.

#### 1.9.2 Safety and Occupational Health (SOH) Deficiency Tracking System

Establish a SOH deficiency tracking system that lists and monitors the status of SOH deficiencies in chronological order. Use the tracking system to evaluate the effectiveness of the APP. A monthly evaluation of the data must be discussed in the QC or SOH meeting with everyone on the project. The list must be posted on the project bulletin board and updated daily, and provide the following information:

- (3) Date deficiency identified;
- (4) Description of deficiency;
- (5) Name of person responsible for correcting deficiency;
- (6) Projected resolution date;
- (7) Date actually resolved.

#### 1.10 SITE SAFETY REFERENCE MATERIALS

Maintain safety-related references applicable to the project, including those listed in paragraph REFERENCES. Maintain applicable equipment manufacturer's manuals.

#### 1.11 EMERGENCY MEDICAL TREATMENT

Contractors must arrange for their own emergency medical treatment in accordance with EM 385-1-1. Government has no responsibility to provide emergency medical treatment.

#### 1.12 NOTIFICATIONS and REPORTS

##### 1.12.1 Mishap Notification

Notify the Contracting Officer as soon as practical, but no more than twenty-four hours, after any mishaps, including recordable accidents, incidents, and near misses, as defined in EM 385-1-1 Appendix Q, any report of injury, illness, or any property damage. For LHE or rigging mishaps, notify the Contracting Officer as soon as practical but not more than four hours after mishap. The Contractor is responsible for obtaining appropriate medical and emergency assistance and for notifying fire, law enforcement, and regulatory agencies. Immediate reporting is required for electrical mishaps, to include Arc Flash; shock; uncontrolled release of hazardous energy (includes electrical and non-electrical); load handling equipment or rigging; fall from height (any level other than same surface); and underwater diving. These mishaps must be investigated in depth to identify all causes and to recommend hazard control measures.

Within notification include Contractor name; Contract title; type of Contract; name of activity, installation or location where accident occurred; date and time of accident; names of personnel injured; extent of property damage, if any; extent of injury, if known, and brief description of accident (for example, type of construction equipment used and PPE used). Preserve the conditions and evidence on the accident site until the Government investigation team arrives on-site and Government investigation is conducted. Assist and cooperate fully with the Government's investigation(s) of any mishap.

#### 1.12.2 Accident Reports

- a. Conduct an accident investigation for recordable injuries and illnesses, property damage, and near misses as defined in EM 385-1-1, to establish the root cause(s) of the accident. Complete the applicable USACE Accident Report Form 3394, and provide the report to the Contracting Officer within 5 calendar days of the accident. The Contracting Officer will provide copies of any required or special forms.
- b. Near Misses: For Army projects, report all "Near Misses" to the GDA, using local mishap reporting procedures, within 24 hrs. The Contracting Officer will provide the Contractor the required forms. Near miss reports are considered positive and proactive Contractor safety management actions.
- c. Conduct an accident investigation for any load handling equipment accident (including rigging accidents) to establish the root cause(s) of the accident. Complete the LHE Accident Report (Crane and Rigging Accident Report) form and provide the report to the Contracting Officer within 30 calendar days of the accident. Do not proceed with crane operations until cause is determined and corrective actions have been implemented to the satisfaction of the Contracting Officer. The Contracting Officer will provide a blank copy of the accident report form.

#### 1.12.3 LHE Inspection Reports

Submit LHE inspection reports required in accordance with EM 385-1-1 and as specified herein with Daily Reports of Inspections.

#### 1.12.4 Certificate of Compliance and Pre-lift Plan/Checklist for LHE and Rigging

Provide a FORM 16-1 Certificate of Compliance for LHE entering an activity under this Contract and in accordance with EM 385-1-1. Post certifications on the crane.

Develop a Standard Lift Plan (SLP) in accordance with EM 385-1-1, Section 16.H.03 using Form 16-2 Standard Pre-Lift Crane Plan/Checklist for each lift planned. Submit SLP to the Contracting Officer for approval within 15 calendar days in advance of planned lift.

#### 1.13 SEVERE STORM PLAN

In the event that a severe storm is forecasted and/or anticipated, the Contractor must comply with the applicable Storm Plan and:

- a. Secure outside equipment and materials and place materials that could be damaged in protected areas.
- b. Check surrounding area, including roof, for loose material, equipment, debris, and other objects that could be blown away or against existing facilities.
- c. Ensure that temporary erosion controls are adequate.

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

3.1 CONSTRUCTION AND OTHER WORK

Comply with EM 385-1-1, NFPA 70, NFPA 70E, NFPA 241, the APP, the AHA, Federal and State OSHA regulations, and other related submittals and activity fire and safety regulations. The most stringent standard prevails.

PPE is governed in all areas by the nature of the work the employee is performing. Use personal hearing protection at all times in designated noise hazardous areas or when performing noise hazardous tasks. Safety glasses must be worn or carried/available on each person. Mandatory PPE includes:

- a. Hard Hat
- b. Long Pants
- c. Appropriate Safety Shoes
- d. Appropriate Class Reflective Vests

3.1.1 Worksite Communication

Employees working alone in a remote location or away from other workers must be provided an effective means of emergency communications (i.e., cellular phone, two-way radios, land-line telephones or other acceptable means). The selected communication must be readily available (easily within the immediate reach) of the employee and must be tested prior to the start of work to verify that it effectively operates in the area/environment. Develop an employee check-in/check-out communication procedure to ensure employee safety.

3.1.2 Hazardous Material Exclusions

Notwithstanding any other hazardous material used in this Contract, radioactive materials or instruments capable of producing ionizing/non-ionizing radiation (with the exception of radioactive material and devices used in accordance with EM 385-1-1 such as nuclear density meters for compaction testing and laboratory equipment with radioactive sources) as well as materials which contain asbestos, mercury or polychlorinated biphenyls, di-isocyanates, lead-based paint, and hexavalent chromium, are prohibited. The Contracting Officer, upon written request by the Contractor, may consider exceptions to the use of any of the above excluded materials. Low mercury lamps used within fluorescent lighting fixtures are allowed as an exception without further Contracting Officer approval.

3.1.3 Unforeseen Hazardous Material

Contract documents identify materials such as PCB, lead paint, and friable and non-friable asbestos and other OSHA regulated chemicals (i.e. 29 CFR Part 1910.1000). If material(s) that may be hazardous to human health upon disturbance are encountered during construction operations, stop that portion of work and notify the Contracting Officer immediately. Within 14

calendar days the Government will determine if the material is hazardous. If material is not hazardous or poses no danger, the Government will direct the Contractor to proceed without change. If material is hazardous and handling of the material is necessary to accomplish the work, the Government will issue a modification pursuant to FAR 52.243-4 Changes and FAR 52.236-2 Differing Site Conditions.

### 3.2 FALL PROTECTION PROGRAM

Establish a fall protection program, for the protection of all employees exposed to fall hazards. Within the program include company policy, identify roles and responsibilities, education and training requirements, fall hazard identification, prevention and control measures, inspection, storage, care and maintenance of fall protection equipment and rescue and evacuation procedures in accordance with ASSP Z359.2 and EM 385-1-1, Sections 21.A and 21.D.

#### 3.2.1 Training

Institute a fall protection training program. As part of the Fall Protection Program, provide training for each employee who might be exposed to fall hazards and using personal fall protection equipment. Provide training by a competent person for fall protection in accordance with EM 385-1-1, Section 21.C. Document training and practical application of the competent person in accordance with EM 385-1-1, Section 21.C.04 and ASSP Z359.2 in the AHA.

#### 3.2.2 Fall Protection Equipment and Systems

Enforce use of personal fall protection equipment and systems designated (to include fall arrest, restraint, and positioning) for each specific work activity in the Site Specific Fall Protection and Prevention Plan and AHA at all times when an employee is exposed to a fall hazard. Protect employees from fall hazards as specified in EM 385-1-1, Section 21.

Provide personal fall protection equipment, systems, subsystems, and components that comply with EM 385-1-1 Section 21.I, 29 CFR 1926.500 Subpart M, ASSP Z359.0, ASSP Z359.1, ASSP Z359.2, ASSP Z359.3, ASSP Z359.4, ASSP Z359.6, ASSP Z359.7, ASSP Z359.11, ASSP Z359.12, ASSP Z359.13, ASSP Z359.14, ASSP Z359.15, ASSP Z359.16 and ASSP Z359.18.

##### 3.2.2.1 Additional Personal Fall Protection Measures

In addition to the required fall protection systems, other protective measures such as safety skiffs, personal floatation devices, and life rings, are required when working above or next to water in accordance with EM 385-1-1, Sections 21.O through 21.O.06. Personal fall protection systems and equipment are required when working from an articulating or extendible boom, swing stages, or suspended platform. In addition, personal fall protection systems are required when operating other equipment such as scissor lifts. The need for tying-off in such equipment is to prevent ejection of the employee from the equipment during raising, lowering, travel, or while performing work.

##### 3.2.2.2 Personal Fall Protection Equipment

Only a full-body harness with a shock-absorbing lanyard or self-retracting lanyard is an acceptable personal fall arrest body support device. The use of body belts is not acceptable. Harnesses must have a fall arrest

attachment affixed to the body support (usually a Dorsal D-ring) and specifically designated for attachment to the rest of the system. Snap hooks and carabineers must be self-closing and self-locking, capable of being opened only by at least two consecutive deliberate actions and have a minimum gate strength of 3,600 lbs in all directions. Use webbing, straps, and ropes made of synthetic fiber. The maximum free fall distance when using fall arrest equipment must not exceed 6 feet, unless the proper energy absorbing lanyard is used. Always take into consideration the total fall distance and any swinging of the worker (pendulum-like motion), that can occur during a fall, when attaching a person to a fall arrest system. Equip all full body harnesses with Suspension Trauma Preventers such as stirrups, relief steps, or similar in order to provide short-term relief from the effects of orthostatic intolerance in accordance with EM 385-1-1, Section 21.I.06.

The Contractor will provide safety harnesses for all necessary Government employees compatible with their fall arrest system. The Contracting Officer and/or the Contracting Officer's Representative shall determine what government personnel require such equipment.

### 3.2.3 Horizontal Lifelines (HLL)

Provide HLL in accordance with EM 385-1-1, Section 21.I.08.d.2. Commercially manufactured horizontal lifelines (HLL) must be designed, installed, certified and used, under the supervision of a qualified person, for fall protection as part of a complete fall arrest system which maintains a safety factor of 2 (29 CFR 1926.500). The competent person for fall protection may (if deemed appropriate by the qualified person) supervise the assembly, disassembly, use and inspection of the HLL system under the direction of the qualified person. Locally manufactured HLLs are not acceptable unless they are custom designed for limited or site specific applications by a Registered Professional Engineer who is qualified in designing HLL systems.

### 3.2.4 Guardrails and Safety Nets

Design, install and use guardrails and safety nets in accordance with EM 385-1-1, Section 21.F.01 and 29 CFR 1926 Subpart M.

### 3.2.5 Rescue and Evacuation Plan and Procedures

When personal fall arrest systems are used, ensure that the mishap victim can self-rescue or can be rescued promptly should a fall occur. Prepare a Rescue and Evacuation Plan and include a detailed discussion of the following: methods of rescue; methods of self-rescue or assisted-rescue; equipment used; training requirement; specialized training for the rescuers; procedures for requesting rescue and medical assistance; and transportation routes to a medical facility. Include the Rescue and Evacuation Plan within the Activity Hazard Analysis (AHA) for the phase of work, in the Fall Protection and Prevention (FP&P) Plan, and the Accident Prevention Plan (APP). The plan must be in accordance with the requirements of EM 385-1-1, ASSP Z359.2, and ASSP Z359.4.

## 3.3 EQUIPMENT

### 3.3.1 Material Handling Equipment (MHE)

- a. Material handling equipment such as forklifts must not be modified with work platform attachments for supporting employees unless specifically



delineated in the manufacturer's printed operating instructions. Material handling equipment fitted with personnel work platform attachments are prohibited from traveling or positioning while personnel are working on the platform.

- b. The use of hooks on equipment for lifting of material must be in accordance with manufacturer's printed instructions. Material Handling Equipment Operators must be trained in accordance with OSHA 29 CFR 1910, Subpart N.
- c. Operators of forklifts or power industrial trucks must be licensed in accordance with OSHA.

### 3.3.2 Load Handling Equipment (LHE)

The following requirements apply. In exception, these requirements do not apply to commercial truck mounted and articulating boom cranes used solely to deliver material and supplies (not prefabricated components, structural steel, or components of a systems-engineered metal building) where the lift consists of moving materials and supplies from a truck or trailer to the ground; to cranes installed on mechanics trucks that are used solely in the repair of shore-based equipment; to crane that enter the activity but are not used for lifting; nor to other machines not used to lift loads suspended by rigging equipment. However, LHE accidents occurring during such operations must be reported.

- a. Equip cranes and derricks as specified in EM 385-1-1, Section 16.
- b. Notify the Contracting Officer 15 working days in advance of any LHE entering the activity, in accordance with EM 385-1-1, Section 16.A.02, so that necessary quality assurance spot checks can be coordinated. Contractor's operator must remain with the crane during the spot check. Rigging gear must be in accordance with OSHA, ASME B30.9.
- c. Comply with the LHE manufacturer's specifications and limitations for erection and operation of cranes and hoists used in support of the work. Perform erection under the supervision of a designated person (as defined in ASME B30.5). Perform all testing in accordance with the manufacturer's recommended procedures.
- d. Comply with ASME B30.5 for mobile and locomotive cranes, ASME B30.22 for articulating boom cranes, ASME B30.3 for construction tower cranes, ASME B30.8 for floating cranes and floating derricks, ASME B30.9 for slings, ASME B30.20 for below the hook lifting devices and ASME B30.26 for rigging hardware.
- e. When operating in the vicinity of overhead transmission lines, operators and riggers must be alert to this special hazard and follow the requirements of EM 385-1-1 Section 11, and ASME B30.5 or ASME B30.22 as applicable.
- f. Do not use crane suspended personnel work platforms (baskets) unless the Contractor proves that using any other access to the work location would provide a greater hazard to the workers or is impossible. Do not lift personnel with a line hoist or friction crane. Additionally, submit a specific AHA for this work to the Contracting Officer. Ensure the activity and AHA are thoroughly reviewed by all involved personnel.
- g. Inspect, maintain, and recharge portable fire extinguishers as

specified in NFPA 10, Standard for Portable Fire Extinguishers.

- h. All employees must keep clear of loads about to be lifted and of suspended loads, except for employees required to handle the load.
- i. Use cribbing when performing lifts on outriggers.
- j. The crane hook/block must be positioned directly over the load. Side loading of the crane is prohibited.
- k. A physical barricade must be positioned to prevent personnel access where accessible areas of the LHE's rotating superstructure poses a risk of striking, pinching or crushing personnel.
- l. Maintain inspection records in accordance by EM 385-1-1, Section 16.D, including shift, monthly, and annual inspections, the signature of the person performing the inspection, and the serial number or other identifier of the LHE that was inspected. Records must be available for review by the Contracting Officer.
- m. Maintain written reports of operational and load testing in accordance with EM 385-1-1, Section 16.F, listing the load test procedures used along with any repairs or alterations performed on the LHE. Reports must be available for review by the Contracting Officer.
- n. Certify that all LHE operators have been trained in proper use of all safety devices (e.g. anti-two block devices).
- o. Take steps to ensure that wind speed does not contribute to loss of control of the load during lifting operations. At wind speeds greater than 20 mph, the operator, rigger and lift supervisor must cease all crane operations, evaluate conditions and determine if the lift may proceed. Base the determination to proceed or not on wind calculations per the manufacturer and a reduction in LHE rated capacity if applicable. Include this maximum wind speed determination as part of the activity hazard analysis plan for that operation.
- p. Follow FAA guidelines when required based on project location.

### 3.3.3 Machinery and Mechanized Equipment

- a. Proof of qualifications for operator must be kept on the project site for review.
- b. Manufacture specifications or owner's manual for the equipment must be on-site and reviewed for additional safety precautions or requirements that are sometimes not identified by OSHA or USACE EM 385-1-1. Incorporate such additional safety precautions or requirements into the AHAs.

### 3.3.4 Use of Explosives

Explosives are not allowed on the project site.

### 3.4 EXCAVATIONS

Soil classification must be performed by a competent person in accordance with 29 CFR 1926 and EM 385-1-1.

#### 3.4.1 Utility Locations

Provide a third party, independent, private utility locating company to positively identify underground utilities in the work area in addition to any station locating service and coordinated with the station utility department.

#### 3.4.2 Utility Location Verification

Physically verify underground utility locations, including utility depth, by hand digging using wood or fiberglass handled tools when any adjacent construction work is expected to come within 3 feet of the underground system.

### 3.5 ELECTRICAL

Perform electrical work in accordance with EM 385-1-1, Sections 11 and 12.

#### 3.5.1 Portable Extension Cords

Size portable extension cords in accordance with manufacturer ratings for the tool to be powered and protected from damage. Immediately removed from service all damaged extension cords. Portable extension cords shall meet the requirements of NFPA 70E and OSHA electrical standards.

-- End of Section --

**This page was intentionally left blank for duplex printing.**

SECTION TABLE OF CONTENTS

DIVISION 01 - GENERAL REQUIREMENTS

SECTION 01 42 00

SOURCES FOR REFERENCE PUBLICATIONS

**02/19**

PART 1 GENERAL

1.1 REFERENCES

1.2 ORDERING INFORMATION

PART 2 PRODUCTS

PART 3 EXECUTION

-- End of Section Table of Contents --

SECTION 01 42 00

SOURCES FOR REFERENCE PUBLICATIONS  
02/19

PART 1 GENERAL

1.1 REFERENCES

Various publications are referenced in other sections of the specifications to establish requirements for the work. These references are identified in each section by document number, date and title. The document number used in the citation is the number assigned by the standards producing organization (e.g., ASTM B564 Standard Specification for Nickel Alloy Forgings). However, when the standards producing organization has not assigned a number to a document, an identifying number has been assigned for reference purposes.

1.2 ORDERING INFORMATION

The addresses of the standards publishing organizations whose documents are referenced in other sections of these specifications are listed below, and if the source of the publications is different from the address of the sponsoring organization, that information is also provided.

AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)  
Two Park Avenue  
New York, NY 10016-5990  
Ph: 800-843-2763  
Fax: 973-882-1717  
E-mail: [customercare@asme.org](mailto:customercare@asme.org)  
Internet: <https://www.asme.org/>

AMERICAN SOCIETY OF SAFETY PROFESSIONALS (ASSP)  
520 N. Northwest Highway  
Park Ridge, IL 60068  
Ph: 847-699-2929  
E-mail: [customerservice@assp.org](mailto:customerservice@assp.org)  
Internet: <https://www.assp.org/>

ASTM INTERNATIONAL (ASTM)  
100 Barr Harbor Drive, P.O. Box C700  
West Conshohocken, PA 19428-2959  
Ph: 610-832-9500  
Fax: 610-832-9555  
E-mail: [service@astm.org](mailto:service@astm.org)  
Internet: <https://www.astm.org/>

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)  
1 Batterymarch Park  
Quincy, MA 02169-7471  
Ph: 800-344-3555  
Fax: 800-593-6372  
Internet: <https://www.nfpa.org>

U.S. ARMY CORPS OF ENGINEERS (USACE)  
CRD-C DOCUMENTS available on Internet:  
<http://www.wbdg.org/ffc/army-coe/standards>  
Order Other Documents from:  
Official Publications of the Headquarters, USACE  
E-mail: [hqpublications@usace.army.mil](mailto:hqpublications@usace.army.mil)  
Internet: <http://www.publications.usace.army.mil/>  
or  
<https://www.hnc.usace.army.mil/Missions/Engineering-Directorate/TECHINFO/>

U.S. DEPARTMENT OF AGRICULTURE (USDA)  
Order AMS Publications from:  
AGRICULTURAL MARKETING SERVICE (AMS)  
Seed Regulatory and Testing Branch  
801 Summit Crossing Place, Suite C  
Gastonia, NC 28054-2193  
Ph: 704-810-8884  
E-mail: [PA@ams.usda.gov](mailto:PA@ams.usda.gov)  
Internet: <https://www.ams.usda.gov/>  
Order Other Publications from:  
USDA Rural Development  
Rural Utilities Service  
STOP 1510, Rm 5135  
1400 Independence Avenue SW  
Washington, DC 20250-1510  
Phone: (202) 720-9540  
Internet:  
<https://www.rd.usda.gov/about-rd/agencies/rural-utilities-service>

U.S. DEPARTMENT OF DEFENSE (DOD)  
Order DOD Documents from:  
Room 3A750-The Pentagon  
1400 Defense Pentagon  
Washington, DC 20301-1400  
Ph: 703-571-3343  
Fax: 215-697-1462  
E-mail: [customerservice@ntis.gov](mailto:customerservice@ntis.gov)  
Internet: <https://www.ntis.gov/>  
Obtain Military Specifications, Standards and Related Publications  
from:  
Acquisition Streamlining and Standardization Information System  
(ASSIST)  
Department of Defense Single Stock Point (DODSSP)  
Document Automation and Production Service (DAPS)  
Building 4/D  
700 Robbins Avenue  
Philadelphia, PA 19111-5094  
Ph: 215-697-6396 - for account/password issues  
Internet: <https://assist.dla.mil/online/start/>; account  
registration required  
Obtain Unified Facilities Criteria (UFC) from:  
Whole Building Design Guide (WBDG)  
National Institute of Building Sciences (NIBS)  
1090 Vermont Avenue NW, Suite 700  
Washington, DC 20005  
Ph: 202-289-7800  
Fax: 202-289-1092  
Internet:

<https://www.wbdg.org/ffc/dod/unified-facilities-criteria-ufc>

U.S. FEDERAL HIGHWAY ADMINISTRATION (FHWA)  
1200 New Jersey Ave., SE  
Washington, DC 20590  
Ph: 202-366-4000  
E-mail: ExecSecretariat.FHWA@dot.gov  
Internet: <https://www.fhwa.dot.gov/>  
Order from:  
Superintendent of Documents  
U.S. Government Publishing Office (GPO)  
732 N. Capitol Street, NW  
Washington, DC 20401  
Ph: 202-512-1800 or 866-512-1800  
Bookstore: 202-512-0132  
Internet: <https://www.gpo.gov/>

U.S. NATIONAL ARCHIVES AND RECORDS ADMINISTRATION (NARA)  
8601 Adelphi Road  
College Park, MD 20740-6001  
Ph: 866-272-6272  
Internet: <https://www.archives.gov/>  
Order documents from:  
Superintendent of Documents  
U.S. Government Publishing Office (GPO)  
732 N. Capitol Street, NW  
Washington, DC 20401  
Ph: 202-512-1800 or 866-512-1800  
Bookstore: 202-512-0132  
Internet: <https://www.gpo.gov/>

PART 2 PRODUCTS

Not used

PART 3 EXECUTION

Not used

-- End of Section --



SECTION TABLE OF CONTENTS

DIVISION 01 - GENERAL REQUIREMENTS

SECTION 01 45 00.00 10

QUALITY CONTROL

11/16, CHG 2: 11/21

PART 1 GENERAL

- 1.1 PAYMENT
- 1.2 SUBMITTALS

PART 2 PRODUCTS

PART 3 EXECUTION

- 3.1 GENERAL REQUIREMENTS
- 3.2 CONTRACTOR QUALITY CONTROL (CQC) PLAN
  - 3.2.1 Content of the CQC Plan
  - 3.2.2 Acceptance of Plan
  - 3.2.3 Notification of Changes
- 3.3 COORDINATION MEETING
- 3.4 QUALITY CONTROL ORGANIZATION
  - 3.4.1 Personnel Requirements
  - 3.4.2 CQC System Manager
  - 3.4.3 Additional Requirement
  - 3.4.4 Organizational Changes
- 3.5 SUBMITTALS AND DELIVERABLES
- 3.6 CONTROL
  - 3.6.1 Preparatory Phase
  - 3.6.2 Initial Phase
  - 3.6.3 Follow-up Phase
  - 3.6.4 Additional Preparatory and Initial Phases
- 3.7 COMPLETION INSPECTION
  - 3.7.1 Punch-Out Inspection
  - 3.7.2 Pre-Final Inspection
  - 3.7.3 Final Acceptance Inspection
- 3.8 DOCUMENTATION
  - 3.8.1 Quality Control Activities
  - 3.8.2 Verification Statement
- 3.9 SAMPLE FORMS
- 3.10 NOTIFICATION OF NONCOMPLIANCE

-- End of Section Table of Contents --

SECTION 01 45 00.00 10

QUALITY CONTROL  
11/16, CHG 2: 11/21

PART 1 GENERAL

1.1 PAYMENT

Separate payment will not be made for providing and maintaining an effective Quality Control program. Include all associated costs in the applicable Bid Schedule item.

1.2 SUBMITTALS

Government approval is required for submittals with a "G" or "S" classification. Submittals not having a "G" or "S" classification are for information only. When used, a code following the "G" classification identifies the office that will review the submittal for the Government. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

Contractor Quality Control (CQC) Plan; G, RO

Verification Statement

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

3.1 GENERAL REQUIREMENTS

Establish and maintain an effective quality control (QC) system that complies with FAR 52.246-12 Inspection of Construction. QC consist of plans, procedures, and organization necessary to produce an end product which complies with the Contract requirements. The QC system covers all construction operations, both onsite and offsite, and be keyed to the proposed construction sequence. The project superintendent will be held responsible for the quality of work and is subject to removal by the Contracting Officer for non-compliance with the quality requirements specified in the Contract. In this context the highest level manager responsible for the overall construction activities at the site, including quality and production is the project superintendent. The project superintendent maintains a physical presence at the site at all times and is responsible for all construction and related activities at the site, except as otherwise acceptable to the Contracting Officer.

3.2 CONTRACTOR QUALITY CONTROL (CQC) PLAN

Submit no later than 10 days after receipt of notice to proceed, the Contractor Quality Control (CQC) Plan proposed to implement the requirements FAR 52.246-12 Inspection of Construction. The Government will

consider an interim plan for the first 30 days of operation. will be permitted to begin only after acceptance of the CQC Plan or acceptance of an interim plan applicable to the particular feature of work to be started. Work outside of the accepted interim plan will not be permitted to begin until acceptance of a CQC Plan or another interim plan containing the additional work.

### 3.2.1 Content of the CQC Plan

Include, as a minimum, the following to cover all construction-operations, both onsite and offsite, including work by subcontractors fabricators, suppliers and purchasing agents:

- a. A description of the quality control organization, including a chart showing lines of authority and acknowledgment that the CQC staff will implement the three phase control system for all aspects of the work specified. Include a CQC System Manager that reports to an officer of the Prime Contractor.
- b. The name, qualifications (in resume format), duties, responsibilities, and authorities of each person assigned a CQC function.
- c. A copy of the letter to the CQC System Manager signed by an authorized official of the firm which describes the responsibilities and delegates sufficient authorities to adequately perform the functions of the CQC System Manager, including authority to stop work which is not in compliance with the Contract. Letters of direction to all other various quality control representatives outlining duties, authorities, and responsibilities will be issued by the CQC System Manager. Furnish copies of these letters to the Contracting Officer.
- d. Procedures for scheduling, reviewing, certifying, and managing submittals, including those of subcontractors, offsite fabricators, suppliers, and purchasing agents. These procedures must be in accordance with Section 01 33 00 SUBMITTAL PROCEDURES.
- e. Control, verification, and acceptance testing procedures for each specific test to include the test name, specification paragraph requiring test, feature of work to be tested, test frequency, and person responsible for each test. (Laboratory facilities approved by the Contracting Officer are required to be used.)
- f. Procedures for tracking preparatory, initial, and follow-up control phases and control, verification, and acceptance tests including documentation.
- g. Procedures for tracking construction deficiencies from identification through acceptable corrective action. Establish verification procedures that identified deficiencies have been corrected.
- h. Reporting procedures, including proposed reporting formats.
- i. A list of the definable features of work. A definable feature of work is a task which is separate and distinct from other tasks, has separate control requirements, and is identified by different trades or disciplines, or it is work by the same trade in a different environment. Although each section of the specifications can generally be considered as a definable feature of work, there are frequently more than one definable features under a particular section. This list will

be agreed upon during the coordination meeting.

### 3.2.2 Acceptance of Plan

Acceptance of the Contractor's plan is required prior to the start of construction. Acceptance is conditional and will be predicated on satisfactory performance during the construction. The Government reserves the right to require the Contractor to make changes in the Contractor Quality Control (CQC) Plan and operations including removal of personnel, as necessary, to obtain the quality specified.

### 3.2.3 Notification of Changes

After acceptance of the CQC Plan, notify the Contracting Officer in writing of any proposed change. Proposed changes are subject to acceptance by the Contracting Officer.

## 3.3 COORDINATION MEETING

Before start of construction, and prior to acceptance by the Government of the CQC Plan, meet with the Contracting Officer and discuss the Contractor's quality control system. Submit the CQC Plan a minimum of 7 calendar days prior to the Coordination Meeting. During the meeting, a mutual understanding of the system details must be developed, including the forms for recording the CQC operations, control activities, testing, administration of the system for both onsite and offsite work, and the interrelationship of Contractor's Management and control with the Government's Quality Assurance. Minutes of the meeting will be prepared by the Government, signed by both the Contractor and the Contracting Officer and will become a part of the contract file. There can be occasions when subsequent conferences will be called by either party to reconfirm mutual understandings or address deficiencies in the CQC system or procedures which can require corrective action by the Contractor.

## 3.4 QUALITY CONTROL ORGANIZATION

### 3.4.1 Personnel Requirements

The requirements for the CQC organization are a Site Safety and Health Officer, CQC System Manager, and sufficient number of additional qualified personnel to ensure safety and Contract compliance. The Site Safety and Health Officer reports directly to a senior project (or corporate) official independent from the CQC System Manager. The Site Safety and Health Officer will also serve as a member of the CQC Staff Personnel identified in the technical provisions as requiring specialized skills to assure the required work is being performed properly will also be included as part of the CQC organization. The Contractor's CQC staff maintains a presence at the site at all times during progress of the work and have complete authority and responsibility to take any action necessary to ensure Contract compliance. The CQC staff will be subject to acceptance by the Contracting Officer. Provide adequate office space, filing systems and other resources as necessary to maintain an effective and fully functional CQC organization. Promptly complete and furnish all letters, material submittals, shop drawing submittals, schedules and all other project documentation to the CQC organization. The CQC organization is responsible to maintain these documents and records at the site at all times, except as otherwise acceptable to the Contracting Officer.

If the Contractor elects to run multiple sites or plants simultaneously, they are required to staff a Quality Control/Safety Professional at each site, at all times.

#### 3.4.2 CQC System Manager

Identify as CQC System Manager an individual within the onsite work organization that is responsible for overall management of CQC and has the authority to act in all CQC matters for the Contractor. The CQC System Manager is required to be a graduate engineer, graduate architect, or a graduate of construction management, with a minimum of 2 years construction experience on construction similar to this Contract. Or a construction person with a minimum of 5 years on construction similar to this Contract. This CQC System Manager is on the site at all times during construction and is employed by the prime Contractor. The CQC System Manager must be assigned as System Manager. Identify in the plan an alternate to serve in the event of the CQC System Manager's absence. The requirements for the alternate are the same as the CQC System Manager.

#### 3.4.3 Additional Requirement

In addition to the above experience and education requirements, the Contractor Quality Control (CQC) System Manager and Alternate CQC System Manager are required to have completed the Construction Quality Management (CQM) for Contractors course. If the CQC System Manager does not have a current certification, obtain the CQM for Contractors course certification within 90 days of award. This course is periodically offered by the Naval Facilities Engineering Command and the Army Corps of Engineers. Contact the Contracting Officer for information on the next scheduled class.

The Construction Quality Management Training certificate expires after 5 years. If the CQC System Manager's certificate has expired, retake the course to remain current.

#### 3.4.4 Organizational Changes

Maintain the CQC staff at full strength at all times. When it is necessary to make changes to the CQC staff, revise the CQC Plan to reflect the changes and submit the changes to the Contracting Officer for acceptance.

### 3.5 SUBMITTALS AND DELIVERABLES

Submittals, if needed, have to comply with the requirements in Section 01 33 00 SUBMITTAL PROCEDURES. The CQC organization is responsible for certifying that all submittals and deliverables are in compliance with the contract requirements. When Section 01 91 00.15 10 TOTAL BUILDING COMMISSIONING are included in the contract, the submittals required by those sections have to be coordinated with Section 01 33 00 SUBMITTAL PROCEDURES to ensure adequate time is allowed for each type of submittal required.

### 3.6 CONTROL

CQC is the means by which the Contractor ensures that the construction, to include that of subcontractors and suppliers, complies with the requirements of the contract. At least three phases of control are required to be conducted by the CQC System Manager for each definable feature of the construction work as follows:

### 3.6.1 Preparatory Phase

This phase is performed prior to beginning work on each definable feature of work, after all required plans/documents/materials are approved/accepted, and after copies are at the work site. This phase includes:

- a. A review of each paragraph of applicable specifications, reference codes, and standards. Make available during the preparatory inspection a copy of those sections of referenced codes and standards applicable to that portion of the work to be accomplished in the field. Maintain and make available in the field for use by Government personnel until final acceptance of the work.
- b. Review of the Contract drawings.
- c. Check to assure that all materials and equipment have been tested, submitted, and approved.
- d. Review of provisions that have been made to provide required control inspection and testing.
- e. Examination of the work area to assure that all required preliminary work has been completed and is in compliance with the Contract.
- f. Examination of required materials, equipment, and sample work to assure that they are on hand, conform to approved shop drawings or submitted data, and are properly stored.
- g. Review of the appropriate activity hazard analysis to assure safety requirements are met.
- h. Discussion of procedures for controlling quality of the work including repetitive deficiencies. Document construction tolerances and workmanship standards for that feature of work.
- i. Check to ensure that the portion of the plan for the work to be performed has been accepted by the Contracting Officer.
- j. Discussion of the initial control phase.
- k. The Government needs to be notified at least 48 hours in advance of beginning the preparatory control phase. Include a meeting conducted by the CQC System Manager and attended by the superintendent, other CQC personnel (as applicable), and the foreman responsible for the definable feature. Document the results of the preparatory phase actions by separate minutes prepared by the CQC System Manager and attach to the daily CQC report. Instruct applicable workers as to the acceptable level of workmanship required in order to meet contract specifications.

### 3.6.2 Initial Phase

This phase is accomplished at the beginning of a definable feature of work. Accomplish the following:

- a. Check work to ensure that it is in full compliance with contract requirements. Review minutes of the preparatory meeting.

- b. Verify adequacy of controls to ensure full contract compliance. Verify required control inspection and testing are in compliance with the contract.
- c. Establish level of workmanship and verify that it meets minimum acceptable workmanship standards. Compare with required sample panels as appropriate.
- d. Resolve all differences.
- e. Check safety to include compliance with and upgrading of the safety plan and activity hazard analysis. Review the activity analysis with each worker.
- f. The Government needs to be notified at least 48 hours in advance of beginning the initial phase for definable feature of work. Prepare separate minutes of this phase by the CQC System Manager and attach to the daily CQC report. Indicate the exact location of initial phase for definable feature of work for future reference and comparison with follow-up phases.
- g. The initial phase for each definable feature of work is repeated for each new crew to work onsite, or any time acceptable specified quality standards are not being met.

### 3.6.3 Follow-up Phase

Perform daily checks to assure control activities, including control testing, are providing continued compliance with contract requirements, until completion of the particular feature of work. Record the checks in the CQC documentation. Conduct final follow-up checks and correct all deficiencies prior to the start of additional features of work which may be affected by the deficient work. Do not build upon nor conceal non-conforming work.

### 3.6.4 Additional Preparatory and Initial Phases

Conduct additional preparatory and initial phases on the same definable features of work if: the quality of on-going work is unacceptable; if there are changes in the applicable CQC staff, onsite production supervision or work crew; if work on a definable feature is resumed after a substantial period of inactivity; or if other problems develop.

## 3.7 COMPLETION INSPECTION

### 3.7.1 Punch-Out Inspection

Conduct an inspection of the work by the CQC System Manager near the end of the work, or any increment of the work established by a time stated in FAR 52.211-10 Commencement, Prosecution, and Completion of Work, or by the specifications. Prepare and include in the CQC documentation a punch list of items which do not conform to the approved drawings and specifications, as required by paragraph DOCUMENTATION. Include within the list of deficiencies the estimated date by which the deficiencies will be corrected. The CQC System Manager or staff make a second inspection to ascertain that all deficiencies have been corrected. Once this is accomplished, notify the Government that the facility is ready for the Government Pre-Final inspection.

### 3.7.2 Pre-Final Inspection

The Government will perform the pre-final inspection to verify that the facility is complete and ready to be occupied. A Government Pre-Final Punch List may be developed as a result of this inspection. Ensure that all items on this list have been corrected before notifying the Government, so that a Final inspection with the customer can be scheduled. Correct any items noted on the Pre-Final inspection in a timely manner. These inspections and any deficiency corrections required by this paragraph need to be accomplished within the time slated for completion of the entire work or any particular increment of the work if the project is divided into increments by separate completion dates.

### 3.7.3 Final Acceptance Inspection

The Contractor's Quality Control Inspection personnel, plus the superintendent or other primary management person, and the Contracting Officer's Representative is required to be in attendance at the final acceptance inspection. The final acceptance inspection will be formally scheduled by the Contracting Officer based upon results of the Pre-Final inspection. Notify the Contracting Officer at least 14 days prior to the final acceptance inspection and include the Contractor's assurance that all specific items previously identified to the Contractor as being unacceptable, along with all remaining work performed under the Contract, will be complete and acceptable by the date scheduled for the final acceptance inspection. Failure of the Contractor to have all contract work acceptably complete for this inspection will be cause for the Contracting Officer to bill the Contractor for the Government's additional inspection cost in accordance FAR 52.246-12 Inspection of Construction.

## 3.8 DOCUMENTATION

### 3.8.1 Quality Control Activities

Maintain current records providing factual evidence that required quality control activities and tests have been performed. Include in these records the work of subcontractors and suppliers on an acceptable form that includes, as a minimum, the following information:

- a. The name and area of responsibility of the Contractor/Subcontractor.
- b. Operating plant/equipment with hours worked, idle, or down for repair.
- c. Work performed each day, giving location, description, and by whom. When Network Analysis (NAS) is used, identify each phase of work performed each day by NAS activity number.
- d. Test and control activities performed with results and references to specifications/drawings requirements. Identify the control phase (Preparatory, Initial, Follow-up). List of deficiencies noted, along with corrective action.
- e. Quantity of materials received at the site with statement as to acceptability, storage, and reference to specifications/drawings requirements.
- f. Submittals and deliverables reviewed, with Contract reference, by whom, and action taken.



- g. Offsite surveillance activities, including actions taken.
- h. Job safety evaluations stating what was checked, results, and instructions or corrective actions.
- i. Instructions given/received and conflicts in plans and specifications.

### 3.8.2 Verification Statement

Indicate a description of trades working on the project; the number of personnel working; weather conditions encountered; and any delays encountered. Cover both conforming and deficient features and include a statement that equipment and materials incorporated in the work and workmanship comply with the Contract. Furnish the original and one copy of these records in report form to the Government daily within 24 hours after the date covered by the report, except that reports need not be submitted for days on which no work is performed. As a minimum, prepare and submit one report for every 7 days of no work and on the last day of a no work period. All calendar days need to be accounted for throughout the life of the contract. The first report following a day of no work will be for that day only. Reports need to be signed and dated by the Contractor Quality Control (CQC) System Manager. Include copies of test reports and copies of reports prepared by all subordinate quality control personnel within the CQC System Manager Report.

### 3.9 SAMPLE FORMS

Sample forms will be provided upon request.

### 3.10 NOTIFICATION OF NONCOMPLIANCE

The Contracting Officer will notify the Contractor of any detected noncompliance with the foregoing requirements. Take immediate corrective action after receipt of such notice. Such notice, when delivered to the Contractor at the work site, will be deemed sufficient for the purpose of notification. If the Contractor fails or refuses to comply promptly, the Contracting Officer can issue an order stopping all or part of the work until satisfactory corrective action has been taken. No part of the time lost due to such stop orders will be made the subject of claim for extension of time or for excess costs or damages by the Contractor.

-- End of Section --

**This page was intentionally left blank for duplex printing.**

SECTION TABLE OF CONTENTS

DIVISION 01 - GENERAL REQUIREMENTS

SECTION 01 45 00.15 10

RESIDENT MANAGEMENT SYSTEM CONTRACTOR MODE (RMS CM)

11/16, CHG 2: 08/19

PART 1 GENERAL

- 1.1 REFERENCES
- 1.2 MEASUREMENT AND PAYMENT
- 1.3 CONTRACT ADMINISTRATION
  - 1.3.1 Correspondence and Electronic Communications
  - 1.3.2 Other Factors
- 1.4 RMS SOFTWARE
- 1.5 CONTRACT DATABASE - GOVERNMENT
- 1.6 CONTRACT DATABASE - CONTRACTOR
  - 1.6.1 Administration
    - 1.6.1.1 Contractor Information
    - 1.6.1.2 Subcontractor Information
    - 1.6.1.3 Correspondence
    - 1.6.1.4 Equipment
    - 1.6.1.5 Reports
    - 1.6.1.6 Request For Information (RFI)
  - 1.6.2 Finances
    - 1.6.2.1 Pay Activity Data
    - 1.6.2.2 Payment Requests
  - 1.6.3 Quality Control (QC)
    - 1.6.3.1 Quality Control (QC) Reports
    - 1.6.3.2 Deficiency Tracking.
    - 1.6.3.3 Three-Phase Control Meetings
    - 1.6.3.4 Labor and Equipment Hours
    - 1.6.3.5 Accident/Safety Reporting
    - 1.6.3.6 Definable Features of Work
    - 1.6.3.7 Activity Hazard Analysis
  - 1.6.4 Submittal Management
  - 1.6.5 Schedule
  - 1.6.6 Closeout
- 1.7 IMPLEMENTATION
- 1.8 NOTIFICATION OF NONCOMPLIANCE

PART 2 PRODUCTS

PART 3 EXECUTION

-- End of Section Table of Contents --

SECTION 01 45 00.15 10

RESIDENT MANAGEMENT SYSTEM CONTRACTOR MODE (RMS CM)  
**11/16, CHG 2: 08/19**

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this section to the extent referenced. The publications are referred to within the text by the basic designation only.

U.S. ARMY CORPS OF ENGINEERS (USACE)

EM 385-1-1 (2014) Safety -- Safety and Health  
Requirements Manual

1.2 MEASUREMENT AND PAYMENT

The work of this section is not measured for payment. The Contractor is responsible for the work of this section, without any direct compensation other than the payment received for contract items.

1.3 CONTRACT ADMINISTRATION

The Government will use the Resident Management System (RMS) to assist in its monitoring and administration of this contract. The Government accesses the system using the Government Mode of RMS (RMS GM) and the Contractor accesses the system using the Contractor Mode (RMS CM). The term RMS will be used in the remainder of this section for both RMS GM and RMS CM. The Contractor shall use the Government-furnished RMS CM to record, maintain, and submit various information throughout the contract period. The joint Government-Contractor use of RMS facilitates electronic exchange of information and overall management of the contract. The Contractor accesses RMS to record, maintain, input, track, and electronically share information with the Government throughout the contract period in the following areas:

Administration

Finances

Quality Control

Submittal Monitoring

Scheduling

Closeout

Import/Export of Data

1.3.1 Correspondence and Electronic Communications

For ease and speed of communications, exchange correspondence and other

documents in electronic format to the maximum extent feasible. Some correspondence, including pay requests and payrolls, are also to be provided in paper format with original signatures. Paper documents will govern, in the event of discrepancy with the electronic version.

#### 1.3.2 Other Factors

Other portions of this document have a direct relationship to the reporting accomplished through RMS. Particular attention is directed to FAR 52.236-15 Schedules for Construction Contracts; FAR 52.232-27 Prompt Payment for Construction Contracts; FAR 52.232-5 Payments Under Fixed-Price Construction Contracts; Section 01 32 16.00 23 PROGRESS SCHEDULE; Section 01 33 00 SUBMITTAL PROCEDURES; Section 01 35 26 GOVERNMENTAL SAFETY REQUIREMENTS; and Section 01 45 00.00 10 QUALITY CONTROL.

#### 1.4 RMS SOFTWARE

RMS is a web based application. Download, install and be able to utilize the latest version of RMS within 7 calendar days of receipt of the Notice to Proceed. RMS software, user manuals, access and installation instructions, program updates and training information are available from the RMS website (<https://rms.usace.army.mil>). The Government and the Contractor will have different access authorities to the same contract database through RMS. The common database will be updated automatically each time a user finalizes an entry or change.

#### 1.5 CONTRACT DATABASE - GOVERNMENT

The Government will enter the basic contract award data in RMS prior to granting the Contractor access. The Government entries into RMS will generally be related to submittal reviews, correspondence status, and Quality Assurance(QA) comments, as well as other miscellaneous administrative information.

#### 1.6 CONTRACT DATABASE - CONTRACTOR

Contractor entries into RMS establish, maintain, and update data throughout the duration of the contract. Contractor entries generally include prime and subcontractor information, daily reports, submittals, RFI's, schedule updates and payment requests. RMS includes the ability to import attachments and export reports in many of the modules, including submittals. The Contractor responsibilities for entries in RMS typically include the following items:

##### 1.6.1 Administration

##### 1.6.1.1 Contractor Information

Enter all current Contractor administrative data and information into RMS within 7 calendar days of receiving access to the contract in RMS. This includes, but is not limited to, Contractor's name, address, telephone numbers, management staff, and other required items.

##### 1.6.1.2 Subcontractor Information

Enter all missing subcontractor administrative data and information into RMS CM within 7 calendar days of receiving access to the contract in RMS or within 7 calendar days of the signing of the subcontractor agreement for

agreements signed at a later date. This includes name, trade, address, phone numbers, and other required information for all subcontractors. A subcontractor is listed separately for each trade to be performed.

#### 1.6.1.3 Correspondence

Identify all Contractor correspondence to the Government with a serial number. Prefix correspondence initiated by the Contractor's site office with "S". Prefix letters initiated by the Contractor's home (main) office with "H". Letters are numbered starting from 0001. (e.g., H-0001 or S-0001). The Government's letters to the Contractor will be prefixed with "C" or "RFP".

#### 1.6.1.4 Equipment

Enter and maintain a current list of equipment planned for use or being used on the jobsite, including the most recent and planned equipment inspection dates.

#### 1.6.1.5 Reports

Track the status of the project utilizing the reports available in RMS. The value of these reports is reflective of the quality of the data input. These reports include the Progress Payment Request worksheet, Quality Control (QC) comments, Submittal Register Status, and Three-Phase Control worksheets.

#### 1.6.1.6 Request For Information (RFI)

Create and track all Requests For Information (RFI) in the RMS Administration Module for Government review and response.

### 1.6.2 Finances

#### 1.6.2.1 Pay Activity Data

Develop and enter a list of pay activities in conjunction with the project schedule. The sum of pay activities equals the total contract amount, including modifications. Each pay activity must be assigned to a Contract Line Item Number (CLIN). The sum of the activities assigned to a CLIN equals the amount of each CLIN.

#### 1.6.2.2 Payment Requests

Prepare all progress payment requests using RMS. Update the RMS database each workday. At least monthly, generate and submit a schedule update and measured as percent or as specific quantities. At least one week prior to submittal, meet with the Government representative to review the planned progress payment data submission for errors and omissions. Make required corrections prior to Government acceptance of the export file and progress payment request. Payment requests accompanied by incomplete or incorrect data submittals will not be accepted. The Government will not process progress payments until all required corrections are processed.

After the update, generate a payment request and prompt payment certification using RMS. Submit the signed prompt payment certification and payment request as well as supporting data either electronically or by hard copy. Unless waived by the Contracting Officer, a signed paper copy of the approved payment certification and request is also required and will

govern in the event of discrepancy with the electronic version.

#### 1.6.3 Quality Control (QC)

Enter and track implementation of the 3-phase QC Control System, QC testing, transferred and installed property and warranties in RMS. Prepare daily reports, identify and track deficiencies, document progress of work, and support other Contractor QC requirements in RMS. Maintain all data on a daily basis. Insure that RMS reflects all quality control methods, tests and actions contained within the Contractor Quality Control (CQC) Plan and Government review comments of same within 7 calendar days of Government acceptance of the CQC Plan.

##### 1.6.3.1 Quality Control (QC) Reports

The Contractor's Quality Control (QC) Daily Report in RMS is the official report. The Contractor can use other supplemental formats to record QC data, but information from any supplemental formats are to be consolidated and entered into the RMS QC Daily Report. Any supplemental information may be entered into RMS as an attachment to the report. QC Daily Reports must be finalized and signed in RMS within 24 hours after the date covered by the report. Provide the Government a printed signed copy of the QC Daily Report, unless waived by the Contracting Officer.

##### 1.6.3.2 Deficiency Tracking.

Use the QC Daily Report Module to enter and track deficiencies. Deficiencies identified and entered into RMS by the Contractor or the Government will be sequentially numbered with a QC or QA prefix for tracking purposes. Enter each deficiency into RMS the same day that the deficiency is identified. Monitor, track and resolve all QC and QA entered deficiencies. A deficiency is not considered to be corrected until the Government indicates concurrence in RMS.

##### 1.6.3.3 Three-Phase Control Meetings

Maintain scheduled and actual dates and times of preparatory and initial control meetings in RMS. Worksheets for the three-phase control meetings are generated within RMS.

##### 1.6.3.4 Labor and Equipment Hours

Enter labor and equipment exposure hours on a daily basis. Roll up the labor and equipment exposure data into a monthly exposure report.

##### 1.6.3.5 Accident/Safety Reporting

Both the Contractor and the Government enter safety related comments in RMS as a deficiency. The Contractor must monitor, track and show resolution for safety issues in the QC Daily Report area of the RMS QC Module. In addition, follow all reporting requirements for accidents and incidents as required in EM 385-1-1, Section 01 35 26 GOVERNMENTAL SAFETY REQUIREMENTS and as required by any other applicable Federal, State or local agencies.

##### 1.6.3.6 Definable Features of Work

Enter each feature of work, as defined in the approved CQC Plan, into the RMS QC Module. A feature of work may be associated with a single or multiple pay activities, however a pay activity is only to be linked to a

single feature of work.

#### 1.6.3.7 Activity Hazard Analysis

Import activity hazard analysis electronic document files into the RMS QC Module utilizing the document package manager.

#### 1.6.4 Submittal Management

Enter all current submittal register data and information into RMS within 7 calendar days of receiving access to the contract in RMS. The information shown on the submittal register following the specification Section 01 33 00

SUBMITTAL PROCEDURES will already be entered into the RMS database when access is granted. Group electronic submittal documents into transmittal packages to send to the Government, except very large electronic files, samples, spare parts, mock ups, color boards, or where hard copies are specifically required. Track transmittals and update the submittal register in RMS on a daily basis throughout the duration of the contract. Submit hard copies of all submittals unless waived by the Contracting Officer.

#### 1.6.5 Schedule

Enter and update the contract project schedule in RMS by either manually entering all schedule data or by importing the Standard Data Exchange Format (SDEF) file, based on the requirements in Section 01 32 01.00 13 PROJECT SCHEDULE.

#### 1.6.6 Closeout

Closeout documents, processes and forms are managed and tracked in RMS by both the Contractor and the Government. Ensure that all closeout documents are entered, completed and documented within RMS.

#### 1.7 IMPLEMENTATION

Use of RMS as described in the preceding paragraphs is mandatory. Ensure that sufficient resources are available to maintain contract data within the RMS system. RMS is an integral part of the Contractor's required management of quality control.

#### 1.8 NOTIFICATION OF NONCOMPLIANCE

Take corrective action within 7 calendar days after receipt of notice of RMS non-compliance by the Contracting Officer.

#### PART 2 PRODUCTS

Not Used

#### PART 3 EXECUTION

Not Used

-- End of Section --



SECTION TABLE OF CONTENTS

DIVISION 01 - GENERAL REQUIREMENTS

SECTION 01 50 00

TEMPORARY CONSTRUCTION FACILITIES AND CONTROLS

11/20, CHG 1: 08/21

PART 1 GENERAL

- 1.1 REFERENCES
- 1.2 SUBMITTALS
- 1.3 CONSTRUCTION SITE PLAN
- 1.4 CYBERSECURITY DURING CONSTRUCTION
  - 1.4.1 Contractor Computer Equipment
    - 1.4.1.1 Operating System
    - 1.4.1.2 Anti-Malware Software
    - 1.4.1.3 Passwords and Passphrases
    - 1.4.1.4 Contractor Computer Cybersecurity Compliance Statements
  - 1.4.2 Government Access to Network
  - 1.4.3 Temporary Wireless IP Networks
  - 1.4.4 Passwords and Passphrases
  - 1.4.5 Contractor Temporary Network Cybersecurity Compliance Statements

PART 3 EXECUTION

- 2.1 AVAILABILITY AND USE OF UTILITY SERVICES
  - 2.1.1 Temporary Utilities
- 2.2 TRAFFIC PROVISIONS
  - 2.2.1 Maintenance of Traffic
  - 2.2.2 Protection of Traffic
  - 2.2.3 Dust Control
- 2.3 CONTRACTOR'S TEMPORARY FACILITIES
  - 2.3.1 Supplemental Storage Area
  - 2.3.2 Appearance of Trailers
  - 2.3.3 Safety Systems
- 2.4 WEATHER PROTECTION OF TEMPORARY FACILITIES AND STORED MATERIALS
  - 2.4.1 Building and Site Storm Protection
- 2.5 FLOATING PLANT TEMPORARY FACILITIES
- 2.6 PLANT COMMUNICATIONS
- 2.7 TEMPORARY PROJECT SAFETY FENCING
- 2.8 CLEANUP
- 2.9 RESTORATION OF STORAGE AREA

ATTACHMENTS:

- 1. Safety Sign

-- End of Section Table of Contents --

SECTION 01 50 00

TEMPORARY CONSTRUCTION FACILITIES AND CONTROLS  
11/20, CHG 1: 08/21

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

U.S. FEDERAL HIGHWAY ADMINISTRATION (FHWA)

MUTCD (2009; Rev 2012) Manual on Uniform Traffic  
Control Devices

1.2 SUBMITTALS

Government approval is required for submittals with a "G" or "S" classification. Submittals not having a "G" or "S" classification are for information only. When used, a code following the "G" classification identifies the office that will review the submittal for the Government. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

Construction Site Plan; G, RO

Traffic Control Plan; G, RO

Haul Road Plan; G, RO

Contractor Computer Cybersecurity Compliance Statements; G,RO

Contractor Temporary Network Cybersecurity Compliance Statements; G,  
RO

1.3 CONSTRUCTION SITE PLAN

Prior to the start of work, submit for Government approval a site plan showing the locations and dimensions of temporary facilities (including layouts and details, equipment and material storage area (onsite and offsite), and access and haul routes, avenues of ingress/egress. Identify any areas which may have to be graveled to prevent the tracking of mud. Indicate if the use of a supplemental or other staging area is desired. Show locations of safety and construction fences, site trailers, construction entrances, trash dumpsters, temporary sanitary facilities, and worker parking areas.

1.4 CYBERSECURITY DURING CONSTRUCTION

{For Reference Only: This subpart (and its subparts) relates to AC-18,

SA-3, CCI-00258.} Meet the following requirements throughout the construction process.

#### 1.4.1 Contractor Computer Equipment

Contractor owned computers may be used for construction. When used, contractor computers must meet the following requirements:

##### 1.4.1.1 Operating System

The operating system must be an operating system currently supported by the manufacturer of the operating system. The operating system must be current on security patches and operating system manufacturer required updates.

##### 1.4.1.2 Anti-Malware Software

The computer must run anti-malware software from a reputable software manufacturer. Anti-malware software must be a version currently supported by the software manufacturer, must be current on all patches and updates, and must use the latest definitions file. All computers used on this project must be scanned using the installed software at least once per day.

##### 1.4.1.3 Passwords and Passphrases

The passwords and passphrases for all computers must be changed from their default values. Passwords must be a minimum of eight characters with a minimum of one uppercase letter, one lowercase letter, one number and one special character.

##### 1.4.1.4 Contractor Computer Cybersecurity Compliance Statements

Provide a single submittal containing completed Contractor Computer Cybersecurity Compliance Statements for each company using contractor owned computers. Contractor Computer Cybersecurity Compliance Statements must use the template published at <http://www.wbdg.org/ffc/dod/unified-facilities-guide-specifications-ufgs/forms-graphics-tables>. Each Statement must be signed by a cybersecurity representative for the relevant company.

#### 1.4.2 Government Access to Network

Government personnel must be allowed to have complete and immediate access to the network at any time in order to verify compliance with this specification.

#### 1.4.3 Temporary Wireless IP Networks

In addition to the other requirements on temporary IP networks, temporary wireless IP (WiFi) networks must not interfere with existing wireless network and must use WPA2 security. Network names (SSID) for wireless networks must be changed from their default values.

#### 1.4.4 Passwords and Passphrases

The passwords and passphrases for all network devices and network access must be changed from their default values. Passwords must be a minimum 8 characters with a minimum of one uppercase letter, one lowercase letter, one number and one special character.

#### 1.4.5 Contractor Temporary Network Cybersecurity Compliance Statements

Provide a single submittal containing completed Contractor Temporary Network Cybersecurity Compliance Statements for each company implementing a temporary IP network. Contractor Temporary Network Cybersecurity Compliance Statements must use the template published at <http://www.wbdg.org/ffc/dod/unified-facilities-guide-specifications-ufgs/forms-graphics-tables>. Each Statement must be signed by a cybersecurity representative for the relevant company. If no temporary IP networks will be used, provide a single copy of the Statement indicating this.

### PART 3 EXECUTION

#### 2.1 AVAILABILITY AND USE OF UTILITY SERVICES

##### 2.1.1 Temporary Utilities

Provide temporary utilities required for construction. Materials may be new or used, must be adequate for the required usage, not create unsafe conditions, and not violate applicable codes and standards.

#### 2.2 TRAFFIC PROVISIONS

##### 2.2.1 Maintenance of Traffic

- a. Conduct operations in a manner that will not close a thoroughfare or interfere with traffic on railways or highways except with written permission of the Contracting Officer at least 15 calendar days prior to the proposed modification date, and provide a Traffic Control Plan for Government approval detailing the proposed controls to traffic movement for approval. The plan must be in accordance with State and local regulations and the MUTCD, Part VI. Make all notifications and obtain all permits required for modification to traffic movements outside Station's jurisdiction.. Contractor may move oversized and slow-moving vehicles to the worksite provided requirements of the highway authority have been met.
- b. Conduct work so as to minimize obstruction of traffic, and maintain traffic on at least half of the roadway width at all times. Obtain approval from the Contracting Officer prior to starting any activity that will obstruct traffic.
- c. Provide, erect, and maintain, at Contractor's expense, lights, barriers, signals, passageways, detours, and other items, that may be required by the Life Safety Signage, overhead protection authority having jurisdiction.
- d. Provide cones, signs, barricades, lights, or other traffic control devices and personnel required to control traffic. Do not use foil-backed material for temporary pavement marking because of its potential to conduct electricity during accidents involving downed power lines.

##### 2.2.2 Protection of Traffic

Maintain and protect traffic on all affected roads during the construction period except as otherwise specifically directed by the Contracting Officer. Measures for the protection and diversion of traffic, including the provision of watchmen and flagmen, erection of barricades, placing of

lights around and in front of equipment the work, and the erection and maintenance of adequate warning, danger, and direction signs, will be as required by the State and local authorities having jurisdiction. Provide self-illuminated (lighted) barricades during hours of darkness. Brightly-colored (orange) vests are required for all personnel working in roadways. Protect the traveling public from damage to person and property. Minimize the interference with public traffic on roads selected for hauling material to and from the site. Investigate the adequacy of existing roads and their allowable load limit. Contractor is responsible for the repair of damage to roads caused by construction operations.

#### 2.2.3 Dust Control

Dust control methods and procedures must be approved by the Contracting Officer. Coordinate dust control methods with 01 57 19 TEMPORARY ENVIRONMENTAL CONTROLS.

### 2.3 CONTRACTOR'S TEMPORARY FACILITIES

#### 2.3.1 Supplemental Storage Area

Upon request, and pending availability, the Contracting Officer will designate another or supplemental area for the use and storage of trailers, equipment, and materials. This area may not be in close proximity of the construction site but will be within the installation boundaries. Maintain the area in a clean and orderly fashion and secured if needed to protect supplies and equipment. Utilities will not be provided to this area by the Government.

#### 2.3.2 Appearance of Trailers

- a. Trailers must be roadworthy and comply with all appropriate state and local vehicle requirements. Trailers which are rusted, have peeling paint or are otherwise in need of repair will not be allowed on Installation property. Trailers must present a clean and neat exterior appearance and be in a state of good repair.
- b. Maintain the temporary facilities. Failure to do so will be sufficient reason to require their removal at the Contractor's expense.

#### 2.3.3 Safety Systems

Protect the integrity of all installed safety systems or personnel safety devices. Obtain prior approval from the Contracting Officer if entrance into systems serving safety devices is required. If it is temporarily necessary to remove or disable personnel safety devices in order to accomplish Contract requirements, provide alternative means of protection prior to removing or disabling any permanently installed safety devices or equipment and obtain approval from the Contracting Officer.

### 2.4 WEATHER PROTECTION OF TEMPORARY FACILITIES AND STORED MATERIALS

Take necessary precautions to ensure that roof openings and other critical openings in the building are monitored carefully. Take immediate actions required to seal off such openings when rain or other detrimental weather is imminent, and at the end of each workday. Ensure that the openings are completely sealed off to protect materials and equipment in the building from damage.

#### 2.4.1 Building and Site Storm Protection

When a warning of gale force winds is issued, take precautions to minimize danger to persons, and protect the work and nearby Government property. Precautions must include, but are not limited to, closing openings; removing loose materials, tools and equipment from exposed locations; and removing or securing scaffolding and other temporary work. Close openings in the work when storms of lesser intensity pose a threat to the work or any nearby Government property.

#### 2.5 FLOATING PLANT TEMPORARY FACILITIES

Provide adequate space on the floating plant suitable for staffing of a Government Representative during normal work hours.

Provide transportation for the representative by motor vessel between the floating plant and the bank of the river as required by the representative to perform their duties. Include on the floating plant a space at least 10 feet by 10 feet climate-controlled room with a desk, light, and chair. Provide drinking water and field-type sanitary facilities for the representative.

#### 2.6 PLANT COMMUNICATIONS

Whenever the individual elements of the plant are located so that operation by normal voice between these elements is not satisfactory, install a satisfactory means of communication, such as telephone, radio, or other suitable devices and make available for use by Government personnel.

#### 2.7 TEMPORARY PROJECT SAFETY FENCING

As soon as practicable, but not later than 15 days after the date established for commencement of work, furnish and erect temporary project safety fencing at the work site. Maintain the safety fencing during the life of the Contract and, upon completion and acceptance of the work, remove from the work site.

#### 2.8 CLEANUP

Remove construction debris, waste materials, packaging material and the like from the work site daily. Any dirt or mud which is tracked onto paved or surfaced roadways must be cleaned away. Store all salvageable materials resulting from demolition activities within the fenced area described above or at the supplemental storage area. Neatly stack stored materials not in trailers, whether new or salvaged.

#### 2.9 RESTORATION OF STORAGE AREA

Upon completion of the project remove the bulletin board, signs, barricades, haul roads, and all other temporary products from the site. After removal of trailers, materials, and equipment from within the fenced area, remove the fence. Restore areas used during the performance of the Contract to the original or better condition. Remove gravel used to traverse areas and restore the area to its original condition, including seeding as necessary.

#### Attachments

1. Safety Sign

FY23 Jameson Chute Rehabilitation  
Saline County, MO

W912DQ23B1005

-- End of Section --

**This page was intentionally left blank for duplex printing.**



SECTION TABLE OF CONTENTS

DIVISION 01 - GENERAL REQUIREMENTS

SECTION 01 57 19

TEMPORARY ENVIRONMENTAL CONTROLS

**11/15, CHG 5: 08/21**

PART 1 GENERAL

1.1 REFERENCES

1.2 DEFINITIONS

- 1.2.1 Class I and II Ozone Depleting Substance (ODS)
- 1.2.2 Contractor Generated Hazardous Waste
- 1.2.3 Electronics Waste
- 1.2.4 Environmental Pollution and Damage
- 1.2.5 Environmental Protection
- 1.2.6 Hazardous Debris
- 1.2.7 Hazardous Materials
- 1.2.8 Hazardous Waste
- 1.2.9 Installation Pest Management Coordinator
- 1.2.10 Land Application
- 1.2.11 Municipal Separate Storm Sewer System (MS4) Permit
- 1.2.12 National Pollutant Discharge Elimination System (NPDES)
- 1.2.13 Oily Waste
- 1.2.14 Pesticide
- 1.2.15 Pesticide Treatment Plan
- 1.2.16 Pests
- 1.2.17 Project Pesticide Coordinator
- 1.2.18 Regulated Waste
- 1.2.19 Sediment
- 1.2.20 Solid Waste
  - 1.2.20.1 Debris
  - 1.2.20.2 Green Waste
  - 1.2.20.3 Material Not Regulated As Solid Waste
  - 1.2.20.4 Non-Hazardous Waste
  - 1.2.20.5 Recyclables
  - 1.2.20.6 Surplus Soil
  - 1.2.20.7 Scrap Metal
  - 1.2.20.8 Wood
- 1.2.21 Surface Discharge
- 1.2.22 Wastewater
  - 1.2.22.1 Stormwater
- 1.2.23 Waters of the United States
- 1.2.24 Wetlands
- 1.2.25 Universal Waste

1.3 SUBMITTALS

1.4 ENVIRONMENTAL PROTECTION REQUIREMENTS

- 1.4.1 Conformance with the Environmental Management System

1.5 AQUATIC NUISANCE SPECIES PREVENTION MEASURES

1.6 QUALITY ASSURANCE

- 1.6.1 Employee Training Records
- 1.6.2 Non-Compliance Notifications

1.7 ENVIRONMENTAL PROTECTION PLAN

- 1.7.1 General Overview and Purpose
  - 1.7.1.1 Descriptions
  - 1.7.1.2 Duties
  - 1.7.1.3 Procedures
  - 1.7.1.4 Communications
  - 1.7.1.5 Contact Information
- 1.7.2 General Site Information
  - 1.7.2.1 Drawings
  - 1.7.2.2 Work Area
  - 1.7.2.3 Documentation
- 1.7.3 Management of Natural Resources
- 1.7.4 Protection of Historical and Archaeological Resources
- 1.7.5 Stormwater Management and Control
- 1.7.6 Protection of the Environment from Waste Derived from Contractor Operations
- 1.7.7 Prevention of Releases to the Environment
- 1.7.8 Regulatory Notification and Permits
- 1.7.9 Clean Air Act Compliance
  - 1.7.9.1 Haul Route
  - 1.7.9.2 Pollution Generating Equipment
  - 1.7.9.3 Stationary Internal Combustion Engines
  - 1.7.9.4 Air Pollution-engineering Processes
  - 1.7.9.5 Compliant Materials

## PART 2 PRODUCTS

## PART 3 EXECUTION

- 3.1 PROTECTION OF NATURAL RESOURCES
  - 3.1.1 Migratory Birds And Threatened And Endangered Species
  - 3.1.2 Flow Ways
  - 3.1.3 Vegetation
  - 3.1.4 Streams
- 3.2 STORMWATER
  - 3.2.1 Construction General Permit
    - 3.2.1.1 Stormwater Pollution Prevention Plan
    - 3.2.1.2 Stormwater Notice of Intent for Construction Activities
    - 3.2.1.3 Inspection Reports
    - 3.2.1.4 Stormwater Pollution Prevention Plan Compliance Notebook
    - 3.2.1.5 Stormwater Notice of Termination for Construction Activities
  - 3.2.2 Erosion and Sediment Control Measures
  - 3.2.3 Work Area Limits
  - 3.2.4 Contractor Facilities and Work Areas
  - 3.2.5 Municipal Separate Storm Sewer System (MS4) Management
- 3.3 PROTECTION OF CULTURAL RESOURCES
  - 3.3.1 Archaeological Resources
- 3.4 AIR RESOURCES
  - 3.4.1 Dust Control
    - 3.4.1.1 Particulates
  - 3.4.2 Odors
- 3.5 WASTE MINIMIZATION
  - 3.5.1 Salvage, Reuse and Recycle
- 3.6 WASTE MANAGEMENT AND DISPOSAL
  - 3.6.1 Waste Determination Documentation
  - 3.6.2 Solid Waste Management
    - 3.6.2.1 Control and Management of Solid Wastes
  - 3.6.3 Control and Management of Hazardous Waste
    - 3.6.3.1 Hazardous Waste/Debris Management

- 3.6.3.2 Universal Waste Management
- 3.6.3.3 Electronics End-of-Life Management
- 3.6.4 Releases/Spills of Oil and Hazardous Substances
  - 3.6.4.1 Response and Notifications
  - 3.6.4.2 Clean Up
- 3.6.5 Mercury Materials
- 3.6.6 Wastewater
  - 3.6.6.1 Disposal of Wastewater
    - 3.6.6.1.1 Treatment
    - 3.6.6.1.2 Surface Discharge
- 3.7 HAZARDOUS MATERIAL MANAGEMENT
- 3.8 PREVIOUSLY USED EQUIPMENT
- 3.9 CONTROL AND MANAGEMENT OF POLYCHLORINATED BIPHENYLS (PCBS)
- 3.10 CONTROL AND MANAGEMENT OF LIGHTING BALLAST AND LAMPS CONTAINING PCBS
- 3.11 PETROLEUM, OIL, LUBRICANT (POL) STORAGE AND FUELING
  - 3.11.1 Used Oil Management
  - 3.11.2 Oil Storage Including Fuel Tanks
- 3.12 INADVERTENT DISCOVERY OF PETROLEUM-CONTAMINATED SOIL OR HAZARDOUS WASTES
- 3.13 POST CONSTRUCTION CLEANUP

-- End of Section Table of Contents --

SECTION 01 57 19

TEMPORARY ENVIRONMENTAL CONTROLS  
11/15, CHG 5: 08/21

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

U.S. ARMY CORPS OF ENGINEERS (USACE)

WETLANDS DELINEATION MANUAL (1987) Corps of Engineers Wetlands  
Delineation Manual

U.S. NATIONAL ARCHIVES AND RECORDS ADMINISTRATION (NARA)

29 CFR 1910.120	Hazardous Waste Operations and Emergency Response
40 CFR 50	National Primary and Secondary Ambient Air Quality Standards
40 CFR 60	Standards of Performance for New Stationary Sources
40 CFR 63	National Emission Standards for Hazardous Air Pollutants for Source Categories
40 CFR 64	Compliance Assurance Monitoring
40 CFR 112	Oil Pollution Prevention
40 CFR 122.26	Storm Water Discharges (Applicable to State NPDES Programs, see section 123.25)
40 CFR 241	Guidelines for Disposal of Solid Waste
40 CFR 243	Guidelines for the Storage and Collection of Residential, Commercial, and Institutional Solid Waste
40 CFR 258	Subtitle D Landfill Requirements
40 CFR 260	Hazardous Waste Management System: General
40 CFR 261	Identification and Listing of Hazardous Waste
40 CFR 261.7	Residues of Hazardous Waste in Empty Containers
40 CFR 262	Standards Applicable to Generators of Hazardous Waste

40 CFR 263	Standards Applicable to Transporters of Hazardous Waste
40 CFR 264	Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities
40 CFR 265	Interim Status Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities
40 CFR 266	Standards for the Management of Specific Hazardous Wastes and Specific Types of Hazardous Waste Management Facilities
40 CFR 268	Land Disposal Restrictions
40 CFR 273	Standards for Universal Waste Management
40 CFR 273.2	Standards for Universal Waste Management - Batteries
40 CFR 273.3	Standards for Universal Waste Management - Pesticides
40 CFR 273.4	Standards for Universal Waste Management - Mercury Containing Equipment
40 CFR 273.5	Standards for Universal Waste Management - Lamps
40 CFR 279	Standards for the Management of Used Oil
40 CFR 300	National Oil and Hazardous Substances Pollution Contingency Plan
40 CFR 300.125	National Oil and Hazardous Substances Pollution Contingency Plan - Notification and Communications
40 CFR 355	Emergency Planning and Notification
40 CFR 403	General Pretreatment Regulations for Existing and New Sources of Pollution
40 CFR 761	Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions
49 CFR 171	General Information, Regulations, and Definitions
49 CFR 172	Hazardous Materials Table, Special Provisions, Hazardous Materials Communications, Emergency Response Information, and Training Requirements
49 CFR 173	Shippers - General Requirements for

## Shipments and Packagings

49 CFR 178

### Specifications for Packagings

#### 1.2 DEFINITIONS

##### 1.2.1 Class I and II Ozone Depleting Substance (ODS)

Class I ODS is defined in Section 602(a) of The Clean Air Act. A list of Class I ODS can be found on the EPA website at the following weblink.  
<https://www.epa.gov/ozone-layer-protection/ozone-depleting-substances>.

Class II ODS is defined in Section 602(s) of The Clean Air Act. A list of Class II ODS can be found on the EPA website at the following weblink.  
<https://www.epa.gov/ozone-layer-protection/ozone-depleting-substances>.

##### 1.2.2 Contractor Generated Hazardous Waste

Contractor generated hazardous waste is materials that, if abandoned or disposed of, may meet the definition of a hazardous waste. These waste streams would typically consist of material brought on site by the Contractor to execute work, but are not fully consumed during the course of construction. Examples include, but are not limited to, excess paint thinners (i.e. methyl ethyl ketone, toluene), waste thinners, excess paints, excess solvents, waste solvents, excess pesticides, and contaminated pesticide equipment rinse water.

##### 1.2.3 Electronics Waste

Electronics waste is discarded electronic devices intended for salvage, recycling, or disposal.

##### 1.2.4 Environmental Pollution and Damage

Environmental pollution and damage is the presence of chemical, physical, or biological elements or agents which adversely affect human health or welfare; unfavorably alter ecological balances of importance to human life; affect other species of importance to humankind; or degrade the environment aesthetically, culturally or historically.

##### 1.2.5 Environmental Protection

Environmental protection is the prevention/control of pollution and habitat disruption that may occur to the environment during construction. The control of environmental pollution and damage requires consideration of land, water, and air; biological and cultural resources; and includes management of visual aesthetics; noise; solid, chemical, gaseous, and liquid waste; radiant energy and radioactive material as well as other pollutants.

##### 1.2.6 Hazardous Debris

As defined in paragraph SOLID WASTE, debris that contains listed hazardous waste (either on the debris surface, or in its interstices, such as pore structure) in accordance with 40 CFR 261. Hazardous debris also includes debris that exhibits a characteristic of hazardous waste in accordance with 40 CFR 261.

#### 1.2.7 Hazardous Materials

Hazardous materials as defined in 49 CFR 171 and listed in 49 CFR 172.

Hazardous material is any material that: Is regulated as a hazardous material in accordance with 49 CFR 173; or requires a Safety Data Sheet (SDS) in accordance with 29 CFR 1910.120; or during end use, treatment, handling, packaging, storage, transportation, or disposal meets or has components that meet or have potential to meet the definition of a hazardous waste as defined by 40 CFR 261 Subparts A, B, C, or D. Designation of a material by this definition, when separately regulated or controlled by other sections or directives, does not eliminate the need for adherence to that hazard-specific guidance which takes precedence over this section for "control" purposes. Such material includes ammunition, weapons, explosive actuated devices, propellants, pyrotechnics, chemical and biological warfare materials, medical and pharmaceutical supplies, medical waste and infectious materials, bulk fuels, radioactive materials, and other materials such as asbestos, mercury, and polychlorinated biphenyls (PCBs).

#### 1.2.8 Hazardous Waste

Hazardous Waste is any material that meets the definition of a solid waste and exhibit a hazardous characteristic (ignitability, corrosivity, reactivity, or toxicity) as specified in 40 CFR 261, Subpart C, or contains a listed hazardous waste as identified in 40 CFR 261, Subpart D.

#### 1.2.9 Installation Pest Management Coordinator

Installation Pest Management Coordinator (IPMC) is the individual officially designated by the Installation Commander to oversee the Installation Pest Management Program and the Installation Pest Management Plan.

#### 1.2.10 Land Application

Land Application means spreading or spraying discharge water at a rate that allows the water to percolate into the soil. No sheeting action, soil erosion, discharge into storm sewers, discharge into defined drainage areas, or discharge into the "waters of the United States" may occur. Comply with federal, state, and local laws and regulations.

#### 1.2.11 Municipal Separate Storm Sewer System (MS4) Permit

MS4 permits are those held by installations to obtain NPDES permit coverage for their stormwater discharges.

#### 1.2.12 National Pollutant Discharge Elimination System (NPDES)

The NPDES permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States.

#### 1.2.13 Oily Waste

Oily waste are those materials that are, or were, mixed with Petroleum, Oils, and Lubricants (POLs) and have become separated from that POLs. Oily wastes also means materials, including wastewaters, centrifuge solids, filter residues or sludges, bottom sediments, tank bottoms, and sorbents which have come into contact with and have been contaminated by, POLs and

may be appropriately tested and discarded in a manner which is in compliance with other state and local requirements.

This definition includes materials such as oily rags, "kitty litter" sorbent clay and organic sorbent material. These materials may be land filled provided that: It is not prohibited in other state regulations or local ordinances; the amount generated is "de minimus" (a small amount); it is the result of minor leaks or spills resulting from normal process operations; and free-flowing oil has been removed to the practicable extent possible. Large quantities of this material, generated as a result of a major spill or in lieu of proper maintenance of the processing equipment, are a solid waste. As a solid waste, perform a hazardous waste determination prior to disposal. As this can be an expensive process, it is recommended that this type of waste be minimized through good housekeeping practices and employee education.

#### 1.2.14 Pesticide

Pesticide is any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any pest, or intended for use as a plant regulator, defoliant or desiccant.

#### 1.2.15 Pesticide Treatment Plan

A plan for the prevention, monitoring, and control to eliminate pest infestation.

#### 1.2.16 Pests

Pests are arthropods, birds, rodents, nematodes, fungi, bacteria, viruses, algae, snails, marine borers, snakes, weeds and other organisms (except for human or animal disease-causing organisms) that adversely affect readiness, military operations, or the well-being of personnel and animals; attack or damage real property, supplies, equipment, or vegetation; or are otherwise undesirable.

#### 1.2.17 Project Pesticide Coordinator

The Project Pesticide Coordinator (PPC) is an individual who resides at a Civil Works Project office and who is responsible overseeing of pesticide application on project grounds.

#### 1.2.18 Regulated Waste

Regulated waste are solid wastes that have specific additional federal, state, or local controls for handling, storage, or disposal.

#### 1.2.19 Sediment

Sediment is soil and other debris that have eroded and have been transported by runoff water or wind.

#### 1.2.20 Solid Waste

Solid waste is a solid, liquid, semi-solid or contained gaseous waste. A solid waste can be a hazardous waste, non-hazardous waste, or non-Resource Conservation and Recovery Act (RCRA) regulated waste. Types of solid waste typically generated at construction sites may include:



#### 1.2.20.1 Debris

Debris is non-hazardous solid material generated during the construction, demolition, or renovation of a structure that exceeds 2.5-inch particle size that is: a manufactured object; plant or animal matter; or natural geologic material (for example, cobbles and boulders), broken or removed concrete, masonry, and rock asphalt paving; ceramics; roofing paper and shingles. Inert materials may be reinforced with or contain ferrous wire, rods, accessories and weldments. A mixture of debris and other material such as soil or sludge is also subject to regulation as debris if the mixture is comprised primarily of debris by volume, based on visual inspection.

#### 1.2.20.2 Green Waste

Green waste is the vegetative matter from landscaping, land clearing and grubbing, including, but not limited to, grass, bushes, scrubs, small trees and saplings, tree stumps and plant roots. Marketable trees, grasses and plants that are indicated to remain, be re-located, or be re-used are not included.

#### 1.2.20.3 Material Not Regulated As Solid Waste

Material not regulated as solid waste is nuclear source or byproduct materials regulated under the Federal Atomic Energy Act of 1954 as amended; suspended or dissolved materials in domestic sewage effluent or irrigation return flows, or other regulated point source discharges; regulated air emissions; and fluids or wastes associated with natural gas or crude oil exploration or production.

#### 1.2.20.4 Non-Hazardous Waste

Non-hazardous waste is waste that is excluded from, or does not meet, hazardous waste criteria in accordance with 40 CFR 263.

#### 1.2.20.5 Recyclables

Recyclables are materials, equipment and assemblies such as doors, windows, door and window frames, plumbing fixtures, glazing and mirrors that are recovered and sold as recyclable, and structural components. It also includes commercial-grade refrigeration equipment with Freon removed, household appliances where the basic material content is metal, clean polyethylene terephthalate bottles, cooking oil, used fuel oil, textiles, high-grade paper products and corrugated cardboard, stackable pallets in good condition, clean crating material, and clean rubber/vehicle tires. Metal meeting the definition of lead contaminated or lead based paint contaminated may be included as recyclable if sold to a scrap metal company. Paint cans that meet the definition of empty containers in accordance with 40 CFR 261.7 may be included as recyclable if sold to a scrap metal company.

#### 1.2.20.6 Surplus Soil

Surplus soil is existing soil that is in excess of what is required for this work, including aggregates intended, but not used, for on-site mixing of concrete, mortars, and paving. Contaminated soil meeting the definition of hazardous material or hazardous waste is not included and must be managed in accordance with paragraph HAZARDOUS MATERIAL MANAGEMENT.

#### 1.2.20.7 Scrap Metal

This includes scrap and excess ferrous and non-ferrous metals such as reinforcing steel, structural shapes, pipe, and wire that are recovered or collected and disposed of as scrap. Scrap metal meeting the definition of hazardous material or hazardous waste is not included.

#### 1.2.20.8 Wood

Wood is dimension and non-dimension lumber, plywood, chipboard, hardboard. Treated or painted wood that meets the definition of lead contaminated or lead based contaminated paint is not included. Treated wood includes, but is not limited to, lumber, utility poles, crossties, and other wood products with chemical treatment.

#### 1.2.21 Surface Discharge

Surface discharge means discharge of water into drainage ditches, storm sewers, creeks or "waters of the United States". Surface discharges are discrete, identifiable sources and require a permit from the governing agency. Comply with federal, state, and local laws and regulations.

#### 1.2.22 Wastewater

Wastewater is the used water and solids from a community that flow to a treatment plant.

##### 1.2.22.1 Stormwater

Stormwater is any precipitation in an urban or suburban area that does not evaporate or soak into the ground, but instead collects and flows into storm drains, rivers, and streams.

#### 1.2.23 Waters of the United States

Waters of the United States means Federally jurisdictional waters, including wetlands, that are subject to regulation under Section 404 of the Clean Water Act or navigable waters, as defined under the Rivers and Harbors Act.

#### 1.2.24 Wetlands

Wetlands are those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Official determination of whether or not an area is classified as a wetland must be done in accordance with WETLANDS DELINEATION MANUAL at

[http://www.usace.army.mil/Portals/2/docs/civilworks/regulatory/reg\\_supp/gp\\_supp.pdf](http://www.usace.army.mil/Portals/2/docs/civilworks/regulatory/reg_supp/gp_supp.pdf)  
and

[http://www.usace.army.mil/Portals/2/docs/civilworks/regulatory/reg\\_supp/erdc-el-tr-10-16.pdf](http://www.usace.army.mil/Portals/2/docs/civilworks/regulatory/reg_supp/erdc-el-tr-10-16.pdf)

#### 1.2.25 Universal Waste

The universal waste regulations streamline collection requirements for

certain hazardous wastes in the following categories: batteries, pesticides, mercury-containing equipment (for example, thermostats), and lamps (for example, fluorescent bulbs). The rule is designed to reduce hazardous waste in the municipal solid waste (MSW) stream by making it easier for universal waste handlers to collect these items and send them for recycling or proper disposal. These regulations can be found at 40 CFR 273.

### 1.3 SUBMITTALS

Government approval is required for submittals with a "G" or "S" classification. Submittals not having a "G" or "S" classification are for information only. When used, a code following the "G" classification identifies the office that will review the submittal for the Government. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

#### SD-01 Preconstruction Submittals

Environmental Protection Plan; G, RO

#### SD-07 Certificates

Employee Training Records; G, RO

#### SD-11 Closeout Submittals

Waste Determination Documentation; G, RO

Hazardous Waste/Debris Management; G, RO

### 1.4 ENVIRONMENTAL PROTECTION REQUIREMENTS

Provide and maintain, during the life of the contract, environmental protection as defined. Plan for and provide environmental protective measures to control pollution that develops during construction practice. Plan for and provide environmental protective measures required to correct conditions that develop during the construction of permanent or temporary environmental features associated with the project. Protect the environmental resources within the project boundaries and those affected outside the limits of permanent work during the entire duration of this Contract. Comply with federal, state, and local regulations pertaining to the environment, including water, air, solid waste, hazardous waste and substances, oily substances, and noise pollution.

Tests and procedures assessing whether construction operations comply with Applicable Environmental Laws may be required. Analytical work must be performed by qualified laboratories; and where required by law, the laboratories must be certified.

#### 1.4.1 Conformance with the Environmental Management System

Perform work under this contract consistent with the policy and objectives identified in the installation's Environmental Management System (EMS). Perform work in a manner that conforms to objectives and targets of the environmental programs and operational controls identified by the EMS. Support Government personnel when environmental compliance and EMS audits are conducted by escorting auditors at the Project site, answering

questions, and providing proof of records being maintained. Provide monitoring and measurement information as necessary to address environmental performance relative to environmental, energy, and transportation management goals. In the event an EMS nonconformance or environmental noncompliance associated with the contracted services, tasks, or actions occurs, take corrective and preventative actions. In addition, employees must be aware of their roles and responsibilities under the installation EMS and of how these EMS roles and responsibilities affect work performed under the contract.

Coordinate with the installation's EMS coordinator to identify training needs associated with environmental aspects and the EMS, and arrange training or take other action to meet these needs. Provide training documentation to the Contracting Officer. The Installation Environmental Office will retain associated environmental compliance records. Make EMS Awareness training completion certificates available to Government auditors during EMS audits and include the certificates in the Employee Training Records. See paragraph EMPLOYEE TRAINING RECORDS.

#### 1.5 AQUATIC NUISANCE SPECIES PREVENTION MEASURES

The U.S. Army Corps of Engineers, Kansas City District (KCD) has implemented special regulations to prevent contamination by aquatic nuisance species (ANS), to prevent the spread to other areas. Zebra mussels and other ANS can be transported by boats, trailers, outboard motors and other equipment such as tractors, bulldozers, water pumps, ropes and nets that are used in areas that ANS inhabit. To assist in preventing the introduction and spread of ANS as a result of work contracted by the U.S. Army Corps of Engineers, the following precautions shall be taken:

Prior to transporting, visually inspect all equipment for zebra mussels and other ANS. All equipment must be thoroughly cleaned, drained, and dried and/or decontaminated prior to arriving at any Corps of Engineers job site.

All equipment and supplies intended for use in KCD waters that has been exposed to other lake or stream water shall be thoroughly power washed with a hot water 104 degrees Fahrenheit, or greater, for a minimum of twenty minutes, or frozen at temperatures 32 degrees Fahrenheit, or less, for 24 hours. If power washing with hot water or freezing cannot be completed the equipment and supplies should be allowed to dry for the appropriate length of time indicated in the table below based on the weather conditions.

Maximum daily temperatures (Fahrenheit)	Minimum days out of water
<30	3
30-40	28
40-60	21
60-80	14
80-100	7
>100	3

Note: Add 7 days for temperatures ranging from 32-95 degrees Fahrenheit if

relative humidity exceeds 50%.

Equipment and supplies including pumps that cannot be thoroughly cleaned, drained, and dried, or frozen shall be treated on all interior and exterior surfaces with 104 degree Fahrenheit water for a minimum of 20 minutes, or submerged in vinegar (100%) for 20 minutes, or submerged in 200 ppm chlorine for 10 minutes. If chlorine is used, it should be neutralized with 800 ppm sodium thiosulfate and rinsed according to the table below. All vinegar and chlorine runoff and waste must be contained, treated, and disposed of properly.

A Corps of Engineers representative will conduct an onsite inspection of all vessels, equipment, pumps and supplies to be used in or around the water before work begins. The date and time of decontamination and the onsite inspection shall be documented and must be coordinated with the Contracting Office in advance.

Vessels and equipment shall be inspected upon removal from the body of water. Hulls, anchors, moorings, trailers, etc. must be cleaned, drained, and dried before leaving the facility. Any suspected ANS must be removed, contained for verification and reported to the Contracting Officer.

All vessels and equipment being removed from KCD waters or others currently infested or suspected of being infested with zebra mussels or other ANS must also be decontaminated as described above.

Disinfectant Amounts to Make Needed Concentrations

Disinfectant	1 gallon	2 gallons	5 gallons	20 gallons	100 gallons
200 ppm Chlorine (household bleach, 5.25% Chlorine	0.5 ounce (15 ml)	1.0 ounce (30 ml)	2.5 ounces (75 ml)	11.0 ounces (300 ml)	6 1/3 cups (1.5L)
800 ppm Sodium Thiosulfate	0.1 ounce (3 g)	0.2 ounce (6 g)	0.5 ounce (15 g)	2.1 ounces (60 g)	10.6 ounces (300 g)

Notes:

- Zebra mussel juveniles, called veligers are microscopic and invisible to the naked eye.
- Air drying and hot water are most effective when used in conjunction with each other. Their effectiveness is highly dependent upon ambient temperatures and contact times.
- Household bleach (5.25% chlorine) and vinegar can be purchased from grocery or convenience stores. Sodium Thiosulfate can be purchased at pool supply stores or chemical companies.
- All bilges and hidden areas under boat decks must be thoroughly

treated as described above.

e. For instructions on cleaning and decontaminating specific types of equipment use the following link to access the Inspection and Cleaning Manual for Equipment and Vehicles to Prevent the Spread of Invasive Species;  
[http://www.usbr.gov/pps/EquipmentInspectionandCleaningManual\\_Sept09.pdf](http://www.usbr.gov/pps/EquipmentInspectionandCleaningManual_Sept09.pdf)

## 1.6 QUALITY ASSURANCE

### 1.6.1 Employee Training Records

Prepare and maintain Employee Training Records throughout the term of the contract meeting applicable 40 CFR requirements. Submit these Assembled Employee Training Records to the Contracting Officer at the conclusion of the project, unless otherwise directed.

Train personnel to meet EPA and state requirements. Conduct environmental protection/pollution control meetings for personnel prior to commencing construction activities. Contact additional meetings for new personnel and when site conditions change. Include in the training and meeting agenda: methods of detecting and avoiding pollution; familiarization with statutory and contractual pollution standards; installation and care of devices, vegetative covers, and instruments required for monitoring purposes to ensure adequate and continuous environmental protection/pollution control; anticipated hazardous or toxic chemicals or wastes, and other regulated contaminants; recognition and protection of archaeological sites, artifacts, waters of the United States, and endangered species and their habitat that are known to be in the area.

### 1.6.2 Non-Compliance Notifications

The Contracting Officer will notify the Contractor in writing of any observed noncompliance with federal, state or local environmental laws or regulations, permits, and other elements of the Contractor's EPP. After receipt of such notice, inform the Contracting Officer of the proposed corrective action and take such action when approved by the Contracting Officer. The Contracting Officer may issue an order stopping all or part of the work until satisfactory corrective action has been taken. FAR 52.242-14 Suspension of Work provides that a suspension, delay, or interruption of work due to the fault or negligence of the Contractor allows for no adjustments to the contract for time extensions or equitable adjustments. In addition to a suspension of work, the Contracting Officer may use additional authorities under the contract or law.

## 1.7 ENVIRONMENTAL PROTECTION PLAN

The purpose of the EPP is to present an overview of known or potential environmental issues that must be considered and addressed during construction. Incorporate construction related objectives and targets from the installation's EMS into the EPP. Include in the EPP measures for protecting natural and cultural resources, required reports, and other measures to be taken. Meet with the Contracting Officer or Contracting Officer Representative to discuss the EPP and develop a mutual understanding relative to the details for environmental protection including measures for protecting natural resources, required reports, and other measures to be taken. Submit the EPP within 15 days after notice to proceed and not less than 10 days before the preconstruction meeting. Revise the EPP throughout the project to include any reporting

requirements, changes in site conditions, or contract modifications that change the project scope of work in a way that could have an environmental impact. No requirement in this section will relieve the Contractor of any applicable federal, state, and local environmental protection laws and regulations. During Construction, identify, implement, and submit for approval any additional requirements to be included in the EPP. Maintain the current version onsite.

The EPP includes, but is not limited to, the following elements:

1.7.1 General Overview and Purpose

1.7.1.1 Descriptions

A brief description of each specific plan required by environmental permit or elsewhere in this Contract such as spill control plan, solid waste management plan, wastewater management plan, air pollution control plan, contaminant prevention plan, .

1.7.1.2 Duties

The duties and level of authority assigned to the person(s) on the job site who oversee environmental compliance, such as who is responsible for adherence to the EPP, who is responsible for spill cleanup and training personnel on spill response procedures, who is responsible for manifesting hazardous waste to be removed from the site (if applicable), and who is responsible for training the Contractor's environmental protection personnel.

1.7.1.3 Procedures

A copy of any standard or project-specific operating procedures that will be used to effectively manage and protect the environment on the project site.

1.7.1.4 Communications

Communication and training procedures that will be used to convey environmental management requirements to Contractor employees and subcontractors.

1.7.1.5 Contact Information

Emergency contact information contact information (office phone number, cell phone number, and e-mail address).

1.7.2 General Site Information

1.7.2.1 Drawings

Drawings showing locations of proposed temporary excavations or embankments for haul roads, stream crossings, jurisdictional wetlands, material storage areas, structures, sanitary facilities, storm drains and conveyances, and stockpiles of excess soil.

1.7.2.2 Work Area

Work area plan showing the proposed activity in each portion of the area and identify the areas of limited use or nonuse. Include measures for

marking the limits of use areas, including methods for protection of features to be preserved within authorized work areas and methods to control runoff and to contain materials on site, and a traffic control plan.

1.7.2.3 Documentation

A letter signed by an officer of the firm appointing the Environmental Manager and stating that person is responsible for managing and implementing the Environmental Program as described in this contract. Include in this letter the Environmental Manager's authority to direct the removal and replacement of non-conforming work.

1.7.3 Management of Natural Resources

- a. Land resources
- b. Tree protection
- c. Replacement of damaged landscape features
- d. Temporary construction
- e. Stream crossings
- f. Fish and wildlife resources
- g. Wetland areas

1.7.4 Protection of Historical and Archaeological Resources

- a. Objectives
- b. Methods

1.7.5 Stormwater Management and Control

- a. Ground cover
- b. Erodible soils
- c. Temporary measures
  - (1) Structural Practices
  - (2) Temporary and permanent stabilization
- d. Effective selection, implementation and maintenance of Best Management Practices (BMPs).

1.7.6 Protection of the Environment from Waste Derived from Contractor Operations

Control and disposal of solid and sanitary waste. Control and disposal of hazardous waste.

This item consist of the management procedures for hazardous waste to be generated. The elements of those procedures will coincide with the Installation Hazardous Waste Management Plan. The Contracting Officer will provide a copy of the Installation Hazardous Waste Management Plan. As a



minimum, include the following:

- a. List of the types of hazardous wastes expected to be generated
- b. Procedures to ensure a written waste determination is made for appropriate wastes that are to be generated
- c. Sampling/analysis plan, including laboratory method(s) that will be used for waste determinations and copies of relevant laboratory certifications
- d. Methods and proposed locations for hazardous waste accumulation/storage (that is, in tanks or containers)
- e. Management procedures for storage, labeling, transportation, and disposal of waste (treatment of waste is not allowed unless specifically noted)
- f. Management procedures and regulatory documentation ensuring disposal of hazardous waste complies with Land Disposal Restrictions (40 CFR 268)
- g. Management procedures for recyclable hazardous materials such as lead-acid batteries, used oil, and similar
- h. Used oil management procedures in accordance with 40 CFR 279; Hazardous waste minimization procedures
- i. Plans for the disposal of hazardous waste by permitted facilities; and Procedures to be employed to ensure required employee training records are maintained.

#### 1.7.7 Prevention of Releases to the Environment

Procedures to prevent releases to the environment

Notifications in the event of a release to the environment

#### 1.7.8 Regulatory Notification and Permits

List what notifications and permit applications must be made. Some permits require up to 180 days to obtain. Demonstrate that those permits have been obtained or applied for by including copies of applicable environmental permits. The EPP will not be approved until the permits have been obtained.

#### 1.7.9 Clean Air Act Compliance

##### 1.7.9.1 Haul Route

Submit truck and material haul routes with Plan of Operations for controlling dirt, debris, and dust on public roadways. As a minimum, identify in the plan the subcontractor and equipment for cleaning along the haul route and measures to reduce dirt, dust, and debris from roadways.

##### 1.7.9.2 Pollution Generating Equipment

Identify air pollution generating equipment or processes that may require federal, state, or local permits under the Clean Air Act. Determine requirements based on any current installation permits and the impacts of the project. Provide a list of all fixed or mobile equipment, machinery or

operations that could generate air emissions during the project to the Installation Environmental Office (Air Program Manager).

#### 1.7.9.3 Stationary Internal Combustion Engines

Identify portable and stationary internal combustion engines that will be supplied, used or serviced. Comply with 40 CFR 60 Subpart IIII, 40 CFR 60 Subpart JJJJ, 40 CFR 63 Subpart ZZZZ, and local regulations as applicable. At minimum, include the make, model, serial number, manufacture date, size (engine brake horsepower), and EPA emission certification status of each engine. Maintain applicable records and log hours of operation and fuel use. Logs must include reasons for operation and delineate between emergency and non-emergency operation.

#### 1.7.9.4 Air Pollution-engineering Processes

Identify planned air pollution-generating processes and management control measures (including, but not limited to, spray painting, abrasive blasting, demolition, material handling, fugitive dust, and fugitive emissions). Log hours of operations and track quantities of materials used.

#### 1.7.9.5 Compliant Materials

Provide the Government a list of SDSs for all hazardous materials proposed for use on site. Materials must be compliant with all Clean Air Act regulations for emissions including solvent and volatile organic compound contents, and applicable National Emission Standards for Hazardous Air Pollutants requirements. The Government may alter or limit use of specific materials as needed to meet installation permit requirements for emissions.

### PART 2 PRODUCTS

Not Used

### PART 3 EXECUTION

#### 3.1 PROTECTION OF NATURAL RESOURCES

Minimize interference with, disturbance to, and damage to fish, wildlife, and plants, including their habitats. Prior to the commencement of activities, consult with the Installation Environmental Office, regarding rare species or sensitive habitats that need to be protected. The protection of rare, threatened, and endangered animal and plant species identified, including their habitats, is the Contractor's responsibility.

Preserve the natural resources within the project boundaries and outside the limits of permanent work. Restore to an equivalent or improved condition upon completion of work that is consistent with the requirements of the Installation Environmental Office or as otherwise specified. Confine construction activities to within the limits of the work indicated or specified.

##### 3.1.1 Migratory Birds And Threatened And Endangered Species

The contractor shall be responsible for compliance with all guidelines and requirements under the Endangered Species Act and the Migratory Bird Treaty Act.

The contractor shall conduct all grass/shrub mowing and clearing between

the dates of July 16 and April 30 to avoid potential impacts to migratory and/or ground nesting bird species. If grass/shrub mowing and clearing activities need to occur during this time period, it shall be coordinated with the Contracting Officer so that a survey can be conducted prior to the activity.

The clearing of trees with 3-inch diameter at breast height (DBH) or greater for the construction of the project shall occur between November 01 and March 31 to avoid potential impacts to Indiana and Northern Long-Eared Bats, species listed as endangered and threatened under the Endangered Species Act. If trees with 3" or greater (DBH) require clearing between the dates April 1 to October 31, a survey for bats must be conducted by the Government prior to the activity. This survey may require considerable lead time and has the potential to impact the construction activities and schedule.

Construction activities near bald eagle nests should occur between August 01 and December 31 to avoid potential impacts to bald eagle nesting. If construction activities occur between January 01 to July 31 the activities must be 660 feet away from a bald eagle nest.

#### 3.1.2 Flow Ways

Do not alter water flows or otherwise significantly disturb the native habitat adjacent to the project and critical to the survival of fish and wildlife, except as specified and permitted.

#### 3.1.3 Vegetation

Except in areas to be cleared, do not remove, cut, deface, injure, or destroy trees or shrubs without the Contracting Officer's permission. Do not fasten or attach ropes, cables, or guys to existing nearby trees for anchorages unless authorized by the Contracting Officer. Where such use of attached ropes, cables, or guys is authorized, the Contractor is responsible for any resultant damage.

Protect existing trees that are to remain to ensure they are not injured, bruised, defaced, or otherwise damaged by construction operations. Remove displaced rocks from uncleared areas. Coordinate with the Contracting Officer and Installation Environmental Office to determine appropriate action for trees and other landscape features scarred or damaged by equipment operations.

#### 3.1.4 Streams

Stream crossings must allow movement of materials or equipment without violating water pollution control standards of the federal, state, and local governments. Construction of stream crossing structures must be in compliance with any required permits including, but not limited to, Clean Water Act Section 404, and Section 401 Water Quality.

The Contracting Officer's approval and appropriate permits are required before any equipment will be permitted to ford live streams. In areas where frequent crossings are required, install temporary culverts or bridges. Obtain Contracting Officer's approval prior to installation. Remove temporary culverts or bridges upon completion of work, and repair the area to its original condition unless otherwise required by the Contracting Officer.

### 3.2 STORMWATER

Do not discharge stormwater from construction sites to the sanitary sewer. If the water is noted or suspected of being contaminated, it may only be released to the storm drain system if the discharge is specifically permitted. Obtain authorization in advance from the Installation Environmental Office for any release of contaminated water.

#### 3.2.1 Construction General Permit

Provide a Construction General Permit as required by 40 CFR 122.26 or the State of Missouri General Permit. Under the terms and conditions of the permit, install, inspect, maintain BMPs, prepare stormwater erosion and sediment control inspection reports, and submit SWPPP inspection reports. Maintain construction operations and management in compliance with the terms and conditions of the general permit for stormwater discharges from construction activities.

##### 3.2.1.1 Stormwater Pollution Prevention Plan

Submit a project-specific Stormwater Pollution Prevention Plan (SWPPP) to the Contracting Officer for approval, prior to the commencement of work. The SWPPP must meet the requirements of 40 CFR 122.26 and the Missouri State General Permit for stormwater discharges from construction sites.

Include the following:

- a. Comply with terms of the state general permit for stormwater discharges from construction activities. Prepare SWPPP in accordance with state requirements.
- b. Select applicable BMPs from EPA Fact Sheets located at <https://www.epa.gov/npdes/national-menu-best-management-practices-bmps-stormwater#constr> or in accordance with applicable state or local requirements.
- c. Include a completed copy of the Notice of Intent, BMP Inspection Report Template, and Stormwater Notice of Termination, except for the effective date.

##### 3.2.1.2 Stormwater Notice of Intent for Construction Activities

Prepare and submit the Notice of Intent for NPDES coverage under the general permit for construction activities to the Contracting Officer for review.

Prepare and submit the Notice of Intent for NPDES coverage under the general permit for construction activities to the Contracting Officer for review and approval.

Prepare and submit a Notice of Intent as a co-permittee to the Contracting Officer, for review and approval.

Submit the approved NOI and appropriate permit fees onto the appropriate federal or state agency for approval. No land disturbing activities may commence without permit coverage. Maintain an approved copy of the SWPPP at the onsite construction office, and continually update as regulations

require, reflecting current site conditions.

#### 3.2.1.3 Inspection Reports

Submit "Inspection Reports" to the Contracting Officer in accordance with the State of Missouri Construction General Permit.

#### 3.2.1.4 Stormwater Pollution Prevention Plan Compliance Notebook

Create and maintain a three ring binder of documents that demonstrate compliance with the Construction General Permit. Include a copy of the permit Notice of Intent, proof of permit fee payment, SWPPP and SWPPP update amendments, inspection reports and related corrective action records, copies of correspondence with the the Missouri State Permitting Agency, and a copy of the permit Notice of Termination in the binder. At project completion, the notebook becomes property of the Government. Provide the compliance notebook to the Contracting Officer.

#### 3.2.1.5 Stormwater Notice of Termination for Construction Activities

Submit a Notice of Termination to the Contracting Officer for approval once construction is complete and final stabilization has been achieved on all portions of the site for which the permittee is responsible. Once approved, submit the Notice of Termination to the appropriate state or federal agency.

#### 3.2.2 Erosion and Sediment Control Measures

Provide erosion and sediment control measures in accordance with state and local laws and regulations. Preserve vegetation to the maximum extent practicable.

Erosion control inspection reports may be compiled as part of a stormwater pollution prevention plan inspection reports.

#### 3.2.3 Work Area Limits

Mark the areas that need not be disturbed under this Contract prior to commencing construction activities. Mark or fence isolated areas within the general work area that are not to be disturbed. Protect monuments and markers before construction operations commence. Where construction operations are to be conducted during darkness, any markers must be visible in the dark. Personnel must be knowledgeable of the purpose for marking and protecting particular objects.

#### 3.2.4 Contractor Facilities and Work Areas

Place field offices, staging areas, stockpile storage, and temporary buildings in areas designated on the drawings or as directed by the Contracting Officer. Move or relocate the Contractor facilities only when approved by the Government. Provide erosion and sediment controls for onsite borrow and spoil areas to prevent sediment from entering nearby waters. Control temporary excavation and embankments for plant or work areas to protect adjacent areas.

#### 3.2.5 Municipal Separate Storm Sewer System (MS4) Management

Comply with the Installation's MS4 permit requirements.

### 3.3 PROTECTION OF CULTURAL RESOURCES

#### 3.3.1 Archaeological Resources

If, during excavation or other construction activities, any previously unidentified or unanticipated historical, archaeological, and cultural resources are discovered or found, activities that may damage or alter such resources will be suspended. Resources covered by this paragraph include, but are not limited to: any human skeletal remains or burials; artifacts; shell, midden, bone, charcoal, or other deposits; rock or coral alignments, pavings, wall, or other constructed features; and any indication of agricultural or other human activities. Upon such discovery or find, immediately notify the Contracting Officer so that the appropriate authorities may be notified and a determination made as to their significance and what, if any, special disposition of the finds should be made. Cease all activities that may result in impact to or the destruction of these resources. Secure the area and prevent employees or other persons from trespassing on, removing, or otherwise disturbing such resources. The Government retains ownership and control over archaeological resources.

### 3.4 AIR RESOURCES

Equipment operation, activities, or processes will be in accordance with 40 CFR 64 and state air emission and performance laws and standards.

#### 3.4.1 Dust Control

Keep dust down at all times, including during nonworking periods. Dry power brooming will not be permitted. Instead, use vacuuming, wet mopping, wet sweeping, or wet power brooming. Air blowing will be permitted only for cleaning nonparticulate debris such as steel reinforcing bars.

##### 3.4.1.1 Particulates

Dust particles, aerosols and gaseous by-products from construction activities, and processing and preparation of materials (such as from asphaltic batch plants) must be controlled at all times, including weekends, holidays, and hours when work is not in progress. Maintain excavations, stockpiles, haul roads, permanent and temporary access roads, plant sites, spoil areas, borrow areas, and other work areas within or outside the project boundaries free from particulates that would exceed 40 CFR 50, state, and local air pollution standards or that would cause a hazard or a nuisance. Sprinkling, chemical treatment of an approved type, baghouse, scrubbers, electrostatic precipitators, or other methods will be permitted to control particulates in the work area. Sprinkling, to be efficient, must be repeated to keep the disturbed area damp. Provide sufficient, competent equipment available to accomplish these tasks. Perform particulate control as the work proceeds and whenever a particulate nuisance or hazard occurs. Comply with state and local visibility regulations.

#### 3.4.2 Odors

Control odors from construction activities. The odors must be in compliance with state regulations and local ordinances and may not constitute a health hazard.

### 3.5 WASTE MINIMIZATION

Minimize the use of hazardous materials and the generation of waste. Include procedures for pollution prevention/ hazardous waste minimization in the Hazardous Waste Management Section of the EPP. Describe the anticipated types of the hazardous materials to be used in the construction when requesting information.

#### 3.5.1 Salvage, Reuse and Recycle

Identify anticipated materials and waste for salvage, reuse, and recycling. Describe actions to promote material reuse, resale or recycling. To the extent practicable, all scrap metal must be sent for reuse or recycling and will not be disposed of in a landfill.

Include the name, physical address, and telephone number of the hauler, if transported by a franchised solid waste hauler. Include the destination and, unless exempted, provide a copy of the state or local permit (cover) or license for recycling.

### 3.6 WASTE MANAGEMENT AND DISPOSAL

#### 3.6.1 Waste Determination Documentation

Complete a Waste Determination form (provided at the pre-construction conference) for Contractor-derived wastes to be generated. All potentially hazardous solid waste streams that are not subject to a specific exclusion or exemption from the hazardous waste regulations (e.g. scrap metal, domestic sewage) or subject to special rules, (lead-acid batteries and precious metals) must be characterized in accordance with the requirements of 40 CFR 261 or corresponding applicable state or local regulations. Base waste determination on user knowledge of the processes and materials used, and analytical data when necessary. Consult with the Installation environmental staff for guidance on specific requirements. Attach support documentation to the Waste Determination form. As a minimum, provide a Waste Determination form for the following waste (this listing is not inclusive): oil- and latex -based painting and caulking products, solvents, adhesives, aerosols, petroleum products, and containers of the original materials.

#### 3.6.2 Solid Waste Management

##### 3.6.2.1 Control and Management of Solid Wastes

Pick up solid wastes, and place in covered containers that are regularly emptied. Do not prepare or cook food on the project site. Prevent contamination of the site or other areas when handling and disposing of wastes. At project completion, leave the areas clean. Employ segregation measures so that no hazardous or toxic waste will become co-mingled with non-hazardous solid waste. Solid waste disposal offsite must comply with most stringent local, state, and federal requirements, including 40 CFR 241, 40 CFR 243, and 40 CFR 258.

Manage hazardous material used in construction, including but not limited to, aerosol cans, waste paint, cleaning solvents, contaminated brushes, and used rags, in accordance with 49 CFR 173.

### 3.6.3 Control and Management of Hazardous Waste

Do not dispose of hazardous waste on Government property. Do not discharge any waste to a sanitary sewer, storm drain, or to surface waters or conduct waste treatment or disposal on Government property without written approval of the Contracting Officer.

#### 3.6.3.1 Hazardous Waste/Debris Management

Identify construction activities that will generate hazardous waste or debris. Provide a documented waste determination for resultant waste streams. Identify, label, handle, store, and dispose of hazardous waste or debris in accordance with federal, state, and local regulations, including 40 CFR 261, 40 CFR 262, 40 CFR 263, 40 CFR 264, 40 CFR 265, 40 CFR 266, and 40 CFR 268.

Manage hazardous waste in accordance with the approved Hazardous Waste Management Section of the EPP. Store hazardous wastes in approved containers in accordance with 49 CFR 173 and 49 CFR 178. Hazardous waste generated within the confines of Government facilities is identified as being generated by the Government. Do not bring hazardous waste onto Government property. Provide the Contracting Officer with a copy of waste determination documentation for any solid waste streams that have any potential to be hazardous waste or contain any chemical constituents listed in 40 CFR 372-SUBPART D.

#### 3.6.3.2 Universal Waste Management

Manage the following categories of universal waste in accordance with federal, state, and local requirements and installation instructions:

- a. Batteries as described in 40 CFR 273.2
- b. Lamps as described in 40 CFR 273.5
- c. Mercury-containing equipment as described in 40 CFR 273.4
- d. Pesticides as described in 40 CFR 273.3

#### 3.6.3.3 Electronics End-of-Life Management

Recycle or dispose of electronics waste, including, but not limited to, used electronic devices such computers, monitors, hard-copy devices, televisions, mobile devices, in accordance with 40 CFR 260-262, state, and local requirements.

### 3.6.4 Releases/Spills of Oil and Hazardous Substances

#### 3.6.4.1 Response and Notifications

Exercise due diligence to prevent, contain, and respond to spills of hazardous material, hazardous substances, hazardous waste, sewage, regulated gas, petroleum, lubrication oil, and other substances regulated in accordance with 40 CFR 300. Maintain spill cleanup equipment and materials at the work site. In the event of a spill, take prompt, effective action to stop, contain, curtail, or otherwise limit the amount, duration, and severity of the spill/release. In the event of any releases of oil and hazardous substances, chemicals, or gases; immediately (within



15 minutes) notify the Contracting Officer and the state or local authority.

Submit verbal and written notifications as required by the federal (40 CFR 300.125 and 40 CFR 355), state, local regulations and instructions. Provide copies of the written notification and documentation that a verbal notification was made within 20 days. Spill response must be in accordance with 40 CFR 300 and applicable state and local regulations. Contain and clean up these spills without cost to the Government.

#### 3.6.4.2 Clean Up

Clean up hazardous and non-hazardous waste spills. Reimburse the Government for costs incurred including sample analysis materials, clothing, equipment, and labor if the Government will initiate its own spill cleanup procedures, for Contractor- responsible spills, when: Spill cleanup procedures have not begun within one hour of spill discovery/occurrence; or, in the Government's judgment, spill cleanup is inadequate and the spill remains a threat to human health or the environment.

#### 3.6.5 Mercury Materials

Immediately report to the Environmental Office and the Contracting Officer instances of breakage or mercury spillage. Clean mercury spill area to the satisfaction of the Contracting Officer.

Do not recycle a mercury spill cleanup; manage it as a hazardous waste for disposal.

#### 3.6.6 Wastewater

##### 3.6.6.1 Disposal of Wastewater

Disposal of wastewater must be as specified below.

##### 3.6.6.1.1 Treatment

Do not allow wastewater from construction activities, such as onsite material processing, concrete curing, foundation and concrete clean-up, water used in concrete trucks, and forms to enter water ways or to be discharged prior to being treated to remove pollutants. Dispose of the construction- related waste water in accordance with 40 CFR 403, state, regional, and local laws and regulations.

##### 3.6.6.1.2 Surface Discharge

Discharge surface discharge in accordance with federal, state, and local laws and regulations.

#### 3.7 HAZARDOUS MATERIAL MANAGEMENT

Include hazardous material control procedures in the Safety Plan, in accordance with Section 01 35 26 GOVERNMENTAL SAFETY REQUIREMENTS. Address procedures and proper handling of hazardous materials, including the appropriate transportation requirements. Do not bring hazardous material onto Government property that does not directly relate to requirements for the performance of this contract. Submit an SDS and estimated quantities to be used for each hazardous material to the Contracting Officer prior to bringing the material on the installation. Typical materials requiring SDS

and quantity reporting include, but are not limited to, oil and latex based painting and caulking products, solvents, adhesives, aerosol, and petroleum products. Use hazardous materials in a manner that minimizes the amount of hazardous waste generated. Containers of hazardous materials must have National Fire Protection Association labels or their equivalent. Certify that hazardous materials removed from the site are hazardous materials and do not meet the definition of hazardous waste, in accordance with 40 CFR 261.

### 3.8 PREVIOUSLY USED EQUIPMENT

Clean previously used construction equipment prior to bringing it onto the project site. Equipment must be free from soil residuals, egg deposits from plant pests, noxious weeds, and plant seeds. Consult with the U.S. Department of Agriculture jurisdictional office for additional cleaning requirements.

### 3.9 CONTROL AND MANAGEMENT OF POLYCHLORINATED BIPHENYLS (PCBS)

Manage and dispose of PCB-contaminated waste in accordance with 40 CFR 761.

### 3.10 CONTROL AND MANAGEMENT OF LIGHTING BALLAST AND LAMPS CONTAINING PCBS

Manage and dispose of contaminated waste in accordance with 40 CFR 761.

### 3.11 PETROLEUM, OIL, LUBRICANT (POL) STORAGE AND FUELING

POL products include flammable or combustible liquids, such as gasoline, diesel, lubricating oil, used engine oil, hydraulic oil, mineral oil, and cooking oil. Store POL products and fuel equipment and motor vehicles in a manner that affords the maximum protection against spills into the environment. Manage and store POL products in accordance with EPA 40 CFR 112, and other federal, state, regional, and local laws and regulations. Use secondary containments, dikes, curbs, and other barriers, to prevent POL products from spilling and entering the ground, storm or sewer drains, stormwater ditches or canals, or navigable waters of the United States. Describe in the EPP (see paragraph ENVIRONMENTAL PROTECTION PLAN) how POL tanks and containers must be stored, managed, and inspected and what protections must be provided.

#### 3.11.1 Used Oil Management

Manage used oil generated on site in accordance with 40 CFR 279. Determine if any used oil generated while onsite exhibits a characteristic of hazardous waste. Used oil containing 1,000 parts per million of solvents is considered a hazardous waste and disposed of at the Contractor's expense. Used oil mixed with a hazardous waste is also considered a hazardous waste. Dispose in accordance with paragraph HAZARDOUS WASTE DISPOSAL.

#### 3.11.2 Oil Storage Including Fuel Tanks

Provide secondary containment and overfill protection for oil storage tanks. A berm used to provide secondary containment must be of sufficient size and strength to contain the contents of the tanks plus 5 inches freeboard for precipitation. Construct the berm to be impervious to oil for 72 hours that no discharge will permeate, drain, infiltrate, or otherwise escape before cleanup occurs. Use drip pans during oil transfer operations; adequate absorbent material must be onsite to clean up any spills and prevent releases to the environment. Cover tanks and drip pans

during inclement weather. Provide procedures and equipment to prevent overfilling of tanks. If tanks and containers with an aggregate aboveground capacity greater than 1320 gallons will be used onsite (only containers with a capacity of 55 gallons or greater are counted), provide and implement a SPCC plan meeting the requirements of 40 CFR 112. Do not bring underground storage tanks to the installation for Contractor use during a project. Submit the SPCC plan to the Contracting Officer for approval.

Monitor and remove any rainwater that accumulates in open containment dikes or berms. Inspect the accumulated rainwater prior to draining from a containment dike to the environment, to determine there is no oil sheen present.

### 3.12 INADVERTENT DISCOVERY OF PETROLEUM-CONTAMINATED SOIL OR HAZARDOUS WASTES

If petroleum-contaminated soil, or suspected hazardous waste is found during construction that was not identified in the Contract documents, immediately notify the Contracting Officer. Do not disturb this material until authorized by the Contracting Officer.

### 3.13 POST CONSTRUCTION CLEANUP

Clean up areas used for construction in accordance with Contract Clause: "Cleaning Up". Unless otherwise instructed in writing by the Contracting Officer, remove traces of temporary construction facilities such as haul roads, work area, structures, foundations of temporary structures, stockpiles of excess or waste materials, and other vestiges of construction prior to final acceptance of the work. Grade parking area and similar temporarily used areas to conform with surrounding contours.

-- End of Section --

**This page was intentionally left blank for duplex printing.**

SECTION TABLE OF CONTENTS

DIVISION 01 - GENERAL REQUIREMENTS

SECTION 01 78 00

CLOSEOUT SUBMITTALS

**05/19**

PART 1 GENERAL

- 1.1 REFERENCES
- 1.2 DEFINITIONS
  - 1.2.1 As-Built Drawings
- 1.3 SUBMITTALS
- 1.4 QUALITY CONTROL

PART 2 PRODUCTS

- 2.1 PDF AS-BUILT FILES
- 2.2 REDLINES AND MARKUPS
- 2.3 AS-BUILT OR ADVANCED MODELING RE-SUBMISSION REQUIREMENTS

PART 3 EXECUTION

- 3.1 AS-BUILT DRAWINGS
  - 3.1.1 Markup Guidelines
  - 3.1.2 As-Built Drawings Content

-- End of Section Table of Contents --

SECTION 01 78 00

CLOSEOUT SUBMITTALS  
05/19

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

U.S. ARMY CORPS OF ENGINEERS (USACE)

ERDC/ITL TR-12-1

(2015) A/E/C Graphics Standard, Release 2.0

1.2 DEFINITIONS

1.2.1 As-Built Drawings

As-built drawings are the marked-up drawings, maintained by the Contractor on-site, that depict actual conditions and deviations from the Contract Documents. These deviations and additions may result from coordination required by, but not limited to: contract modifications; official responses to submitted Requests for Information (RFI's); direction from the Contracting Officer; design that is the responsibility of the Contractor, and differing site conditions. Maintain the as-builts throughout construction as red-lined hard copies on site and red-lined PDF files. These files serve as the basis for the creation of the record drawings.

1.3 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-11 Closeout Submittals

As-Built Drawings; G, RO

1.4 QUALITY CONTROL

Additions and corrections to the contract drawings must be equal in quality and detail to that of the originals. Line colors, line weights, lettering, layering conventions, and symbols must be the same as the original line colors, line weights, lettering, layering conventions, and symbols.

PART 2 PRODUCTS

2.1 PDF AS-BUILT FILES

Provide electronic PDF "plots" of all contract drawings sheets associated with the as-built drawing submittal. Compile and organize the PDF set to

match the contract drawings.

## 2.2 REDLINES AND MARKUPS

Provide PDFs of the current working redlines and/or markups complying with the as-builts drawing and markup requirements contained in this specification.

## 2.3 AS-BUILT OR ADVANCED MODELING RE-SUBMISSION REQUIREMENTS

If elements of an as-built submittal or advanced modeling package are rejected, provide the following for each re-submission, in addition to any information required in Section 01 33 00 SUBMITTAL PROCEDURES:

- a. Re-submit all components required under paragraph As-Builts or Advanced Modeling Package, including a new Advanced Modeling Submittal Checklist and updated content in response to Government comments.
- b. Provide a copy of all Government review comments.
- c. Provide a disposition/response to each Government review comment for a back-check of the re-submission deliverable.

## PART 3 EXECUTION

### 3.1 AS-BUILT DRAWINGS

Provide and maintain two black line print copies of the PDF contract drawings for As-Built Drawings. Maintain the as-builts throughout construction as red-lined hard copies on site and red-lined PDF files. Submit As-Built Drawings 30 days prior to Beneficial Occupance Date (BOD).

#### 3.1.1 Markup Guidelines

Make comments and markup the drawings complete without reference to letters, memos, or materials that are not part of the As-Built drawing. Show what was changed, how it was changed, where item(s) were relocated and change related details. These working as-built markup prints must be neat, legible and accurate as follows:

- a. Use base colors of red, green, and blue. Color code for changes as follows:
  - (1) Special (Blue) - Items requiring special information, coordination, or special detailing or detailing notes.
  - (2) Deletions (Red) - Over-strike deleted graphic items (lines), lettering in notes and leaders.
  - (3) Additions (Green) - Added items, lettering in notes and leaders.
- b. Provide a legend if colors other than the "base" colors of red, green, and blue are used.
- c. Add and denote any additional equipment or material facilities, service lines, incorporated under As-Built Revisions if not already shown in legend.
- d. Use frequent written explanations on markup drawings to describe

changes. Do not totally rely on graphic means to convey the revision.

- e. Use legible lettering and precise and clear digital values when marking prints. Clarify ambiguities concerning the nature and application of change involved.
- f. Wherever a revision is made, also make changes to related section views, details, legend, profiles, plans and elevation views, schedules, notes and call out designations, and mark accordingly to avoid conflicting data on all other sheets.
- g. For deletions, cross out all features, data and captions that relate to that revision.
- h. For changes on small-scale drawings and in restricted areas, provide large-scale inserts, with leaders to the applicable location.
- i. Indicate one of the following when attaching a print or sketch to a markup print:
  - (1) Add an entire drawing to contract drawings
  - (2) Change the contract drawing to show
  - (3) Provided for reference only to further detail the initial design.
- j. Incorporate all shop and fabrication drawings into the markup drawings.

### 3.1.2 As-Built Drawings Content

Revise As-Built Drawings in accordance with ERDC/ITL TR-12-1. Keep these working as-built markup drawings current on a weekly basis and at least one set available on the jobsite at all times. Changes from the contract drawings which are made during construction or additional information which might be uncovered in the course of construction must be accurately and neatly recorded as they occur by means of details and notes. Submit the working as-built markup drawings for approval prior to submission of each monthly pay estimate. For failure to maintain the working and final record drawings as specified herein, the Contracting Officer will withhold 10 percent of the monthly progress payment until approval of updated drawings. Show on the as-built drawings, but not limited to, the following information:

- a. The actual location, kinds and sizes of all sub-surface utility lines. In order that the location of these lines and appurtenances may be determined in the event the surface openings or indicators become covered over or obscured, show by offset dimensions to two permanently fixed surface features the end of each run including each change in direction on the record drawings. Locate valves, splice boxes and similar appurtenances by dimensioning along the utility run from a reference point. Also record the average depth below the surface of each run.
- b. Correct grade, elevations, cross section, or alignment of stone features, earthwork, structures, or utilities if any changes were made from contract plans.
- c. Changes in details of design or additional information obtained from working drawings specified to be prepared or furnished by the



Contractor.

- d. The topography, invert elevations and grades of excavation done as part of the project construction.
- e. Changes or Revisions which result from the final inspection.
- f. Where contract drawings or specifications present options, show only the option selected for construction on the working as-built markup drawings.
- g. Extents and depths of excavated material that has been spoiled onto the bank paving.
- h. Unusual or uncharted obstructions that are encountered in the contract work area during construction.
- i. Location, extent, thickness, and size of stone protection particularly where it will be normally submerged by water. Limits of bank paving must be collected before spoil material is placed over it.
- j. Quantity of stone placed for each stone feature.
- k. Modifications (include within change order price the cost to change working and final record drawings to reflect modifications) and compliance with the following procedures.
  - (1) Follow directions in the modification for posting descriptive changes.
  - (2) Place a Modification Circle at the location of each deletion.
  - (3) For new details or sections which are added to a drawing, place a Modification Circle by the detail or section title.
  - (4) For minor changes, place a Modification Circle by the area changed on the drawing (each location).
  - (5) For major changes to a drawing, place a Modification Circle by the title of the affected plan, section, or detail at each location.
  - (6) For changes to schedules or drawings, place a Modification Circle either by the schedule heading or by the change in the schedule.
  - (7) The Modification Circle size shall be 1/2 inch diameter unless the area where the circle is to be placed is crowded. Smaller size circle shall be used for crowded areas.

-- End of Section --

**This page was intentionally left blank for duplex printing.**

SECTION TABLE OF CONTENTS

DIVISION 31 - EARTHWORK

SECTION 31 00 00

EARTHWORK

**08/08**

PART 1 GENERAL

- 1.1 SCOPE OF WORK
  - 1.1.1 REFERENCES
  - 1.1.2 DEFINITIONS
    - 1.1.2.1 River Control Structures
    - 1.1.2.2 Hard Materials
- 1.2 SUBMITTALS

PART 2 PRODUCTS

- 2.1 OFF-LOADING RAMPS AND WORK PADS

PART 3 EXECUTION

- 3.1 PREPARATION
- 3.2 GENERAL EXCAVATION
  - 3.2.1 SLOPES AND SURCHARGES
  - 3.2.2 FINISHING
- 3.3 HAUL ROADS

-- End of Section Table of Contents --

SECTION 31 00 00

EARTHWORK  
08/08

PART 1 GENERAL

1.1 SCOPE OF WORK

The work covered by this section consists of furnishing all submittals, labor, equipment, materials, incidentals, and all efforts necessary to perform general earthwork as defined for this project. All work under this contract shall comply with the requirements of EM 385-1-1.

1.1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

ASTM INTERNATIONAL (ASTM)

ASTM D2487	(2017; E 2020) Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System)
------------	---

U.S. ARMY CORPS OF ENGINEERS (USACE)

EM 385-1-1	(2014) Safety -- Safety and Health Requirements Manual
------------	---

1.1.2 DEFINITIONS

1.1.2.1 River Control Structures

River control structures consist of dikes and revetments with numerous variations of each structure. In general, dikes are structures situated approximately perpendicular to river flow, and revetments are structures situated approximately in line with the direction of river flow. Existing river control structures are constructed of stone size up to 2000 lbs, wood pile, timber mats, stone fill, or a combination of materials.

1.1.2.2 Hard Materials

Hard materials are stone materials such as the stone excavated in the vicinity of existing dikes and revetments that is greater than 3 inches in average diameter obtained from areas designated on the drawings.

1.2 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

Plan of Operations; G, DO

SD-11 Closeout Submittals

PART 2 PRODUCTS

2.1 OFF-LOADING RAMPS AND WORK PADS

Plans for construction and removal of temporary barge off-loading ramps and work pads required for construction shall be submitted to the Contracting Officer for approval prior to construction. Ramps and work pads may be constructed of any material approved by the Contracting Officer, which may include quarry rock and sand excavated from the river. Concrete rubble or asphalt will not be permitted. Sand excavated from the river may remain in place after construction. Stone shall be removed and wasted on site in areas approved by the Contracting Officer, or shown on the drawings. Wasted stone is not to be reused for construction of any feature under this contract. Temporary modification of existing rock structures may be permitted by the Contracting Officer.

PART 3 EXECUTION

3.1 PREPARATION

Thirty (30) days prior to commencement of any type of construction activities, the contractor shall submit for approval a Plan of Operations for accomplishing all site access, staging areas, excavation, and the location and construction of haul roads from barge unloading sites to placement location. This plan shall include but not be limited to the Contractor's proposed sequence of construction for excavations, and methods and types of equipment to be utilized for all excavation and rock placement, including transporting and placing material, and for final deposition of excavated bank material and material used for haul roads.

3.2 GENERAL EXCAVATION

Perform excavation of every type of material encountered within the limits of the project to the lines, grades, and elevations indicated and as specified. Disposal of excavated soil shall be in locations designated in the drawings or may be used for construction of temporary haul roads meeting the requirements in specification 01 50 00. Non-organic solid waste encountered during the excavation shall be disposed of in accordance with Section 01 57 19 TEMPORARY ENVIRONMENTAL CONTROLS.

3.2.1 SLOPES AND SURCHARGES

Temporary excavation slopes for any structure excavation or other required excavation shall meet OSHA and EM 385-1-1 requirements, not be steeper than the specified finished slope or the specified construction slope, as applicable, and subject to the approval of the Contracting Officer. This may be accomplished by benching the temporary slope so that the average slope is not steeper than the specified slope. In addition, if spoiled material is to be spread on top of the bank paving or along the top of the

bank, the bank slope after completion must match the relevant design drawings for the project. The toe of stockpiled material shall be maintained a minimum distance back from the top of the finished excavation equal to the depth of the excavation. Determine the maximum height of such stockpile without causing instability of the excavation slope. Any slide or other adverse conditions caused by failure of the Contractor to maintain these conditions shall be considered the responsibility of the Contractor and remedial measures shall be at the Contractor's expense.

### 3.2.2 FINISHING

All placed stone shall be finished to the lines and grades as specified. Final lines and grades of any placed stone that will have spoil placed over the top of it shall be inspected and approved by the contracting officer prior to any placement of spoil over the finished surface. Spoil placement may have a rough appearance and should roughly match the slope or surface it is placed on, wide variation is allowed, but should not exceed 6ft above surrounding ground.

### 3.3 HAUL ROADS

Haul roads shall be constructed to maintain the intended traffic, be free draining, and be maintained in good condition throughout the Contract Period. Areas on each side of the haul road corridor or disposal route shall not be disturbed. Haul roads or disposal routes on the top of the bank constructed during the Contract Period shall be removed following construction, or restore the lines and grades to the preconstruction conditions. Rock or other suitable fill material used to create haul roads across the chute or sandbars shall be removed and wasted on site in accordance with the drawings or by the Contracting Officer. Wasted material is not to be reused for construction of any feature under this contract. Temporary modification of existing rock structures may be permitted by the Contracting Officer. Dust control shall be provided as needed to ensure safe operation at all times.

-- End of Section --

SECTION TABLE OF CONTENTS

DIVISION 31 - EARTHWORK

SECTION 31 11 00

CLEARING AND GRUBBING

11/18

PART 1 GENERAL

- 1.1 REFERENCES
- 1.2 SUBMITTALS
- 1.3 QUALITY CONTROL
  - 1.3.1 Regulatory Requirements
  - 1.3.2 Qualifications
- 1.4 DELIVERY, STORAGE, AND HANDLING
  - 1.4.1 Storage
  - 1.4.2 Handling

PART 2 PRODUCTS

- 2.1 MATERIALS
  - 2.1.1 Herbicide

PART 3 EXECUTION

- 3.1 PREPARATION
  - 3.1.1 Herbicide Application Plan
  - 3.1.2 Protection
    - 3.1.2.1 Trees, Shrubs, and Existing Facilities
    - 3.1.2.2 Utility Lines
- 3.2 Application
  - 3.2.1 Herbicide Application
    - 3.2.1.1 Clean Up, Disposal, And Protection
      - 3.2.1.1.1 Disposal of Herbicide
- 3.3 CLEARING
  - 3.3.1 Grubbing
- 3.4 DISPOSAL OF MATERIALS

-- End of Section Table of Contents --

SECTION 31 11 00

CLEARING AND GRUBBING  
11/18

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

U.S. DEPARTMENT OF DEFENSE (DOD)

DODI 4150.07

(2019) DOD Pest Management Program

1.2 SUBMITTALS

Government approval is required for submittals with a "G" classification. Submittals not having a "G" classification are for information only. When used, a code following the "G" classification identifies the office that will review the submittal for the Government. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

Herbicide Application Plan

SD-03 Product Data

Tree Wound Paint

Herbicides

SD-07 Certificates

Qualifications

1.3 QUALITY CONTROL

1.3.1 Regulatory Requirements

Comply with DODI 4150.07 for requirements on Contractor's licensing, certification, and record keeping. Maintain daily records using the Pest Management Maintenance Record, DD Form 1532-1, or a computer generated equivalent. These forms may be obtained from the main web site:  
<http://www.dtic.mil/whs/directives/forms/eforms/dd1532-1.pdf>

1.3.2 Qualifications

For the application of herbicides, use the services of an applicator who is commercially certified in the state where the work is to be performed as required by DODI 4150.07. Submit a copy of the pesticide applicator certificates.



#### 1.4 DELIVERY, STORAGE, AND HANDLING

Deliver materials to the site, and handle in a manner which will maintain the materials in their original manufactured or fabricated condition until ready for use.

##### 1.4.1 Storage

Storage of herbicides on the site will not be permitted unless it is written into the contract.

##### 1.4.2 Handling

Handle herbicides in accordance with the manufacturer's label and Safety Data Sheet (SDS), preventing contamination by dirt, water, and organic material. Protect herbicides from weather elements as recommended by the manufacturer's label and SDS. Spill kits must be maintained on herbicide control vehicles. Mixing of herbicides on site will not be permitted unless it is written into the contract.

#### PART 2 PRODUCTS

##### 2.1 MATERIALS

###### 2.1.1 Herbicide

Provide herbicides, if used, currently registered by the EPA or approved for such use by the appropriate agency of the host county and approved by the Contracting Officer. Select a herbicide that is suitable for the climatic conditions at the project site. Submit manufacturer's label and SDS for herbicides proposed for use.

#### PART 3 EXECUTION

##### 3.1 PREPARATION

###### 3.1.1 Herbicide Application Plan

Prior to commencing application of herbicide, if used, submit a herbicide application plan with proposed sequence of treatment work including dates and times of application. Include the herbicide trade name, EPA registration number, chemical composition, formulation, application rate of active ingredients, method of application, area or volume treated, and amount applied. Include a copy of the pesticide applicator certificates.

###### 3.1.2 Protection

###### 3.1.2.1 Trees, Shrubs, and Existing Facilities

Protect trees and vegetation to be left standing from damage incident to clearing, grubbing, and construction operations by the erection of barriers or by such other means as the circumstances require.

###### 3.1.2.2 Utility Lines

There are no known utilities in the vicinity of the project. Field verify prior to start of Construction. Notify the Contracting Officer immediately of damage to or an encounter with an unknown existing utility line. The Contractor is responsible for the repair of damage to existing utility

lines that are indicated or made known to the Contractor prior to start of clearing and grubbing operations. When utility lines which are to be removed are encountered within the area of operations, notify the Contracting Officer in ample time to minimize interruption of the service. Refer to Section 01 30 00 ADMINISTRATIVE REQUIREMENTS and Section 01 57 19 TEMPORARY ENVIRONMENTAL CONTROLS for additional utility protection.

### 3.2 Application

#### 3.2.1 Herbicide Application

Adhere to safety precautions as recommended by the manufacturer concerning handling and application of the herbicide.

##### 3.2.1.1 Clean Up, Disposal, And Protection

Once application has been completed, proceed with clean up and protection of the site without delay. Clean the site of all material associated with the treatment measures, according to label instructions, and as indicated. Remove and dispose of excess and waste material off Government property.

##### 3.2.1.1.1 Disposal of Herbicide

Dispose of residual herbicides and containers off Government property, and in accordance with the approved disposal plan, label instructions and EPA requirements.

### 3.3 CLEARING

Clearing consists of the felling, trimming, and cutting of trees into sections and the satisfactory disposal of the trees and other vegetation designated for removal, including downed timber, snags, brush, and rubbish occurring within Construction Limits as shown on the drawings. All cleared or downed trees shall be left on-site and only those cleared or downed trees that impact the Contractor need to be moved. Any moved trees shall be cut or placed so that no part of the tree projects more than 6 feet above the ground. Tree clearing must comply with the limitations identified in 01 57 19 TEMPORARY ENVIRONMENTAL CONTROLS. All of the trees within the construction limits have been felled at approximately 48 inches above ground surface and left in place.

Clearing also includes the removal and disposal of structures that obtrude, encroach upon, or otherwise obstruct the work within the Construction Limits as shown on the drawings. Trees outside the Construction Limits are designated to be left standing.

#### 3.3.1 Grubbing

Grubbing consists of the removal and disposal of stumps and roots as needed for construction access. Fill depressions made by grubbing with suitable material and compact to make the surface conform with the original adjacent surface of the ground. The extent of needed grubbing will be determined by the Contractor.

### 3.4 DISPOSAL OF MATERIALS

Logs, stumps, roots, brush, rotten wood, and other refuse from the clearing and grubbing operations shall be disposed within the cleared area or on top of the finished bank paving, except when otherwise directed in writing.

Such directive will state the conditions covering the disposal of such products and will also state the areas in which they may be placed. All material from clearing and grubbing may remain on-site within the cleared areas, on top of the finished bank paving, or other areas approved by the Contracting Officer.

-- End of Section --

**This page was intentionally left blank for duplex printing.**

SECTION TABLE OF CONTENTS

DIVISION 32 - EXTERIOR IMPROVEMENTS

SECTION 32 92 19

SEEDING

**08/17**

PART 1 GENERAL

- 1.1 REFERENCES
- 1.2 DEFINITIONS
  - 1.2.1 Stand of Turf
- 1.3 RELATED REQUIREMENTS
- 1.4 SUBMITTALS
- 1.5 DELIVERY, STORAGE, AND HANDLING
  - 1.5.1 Delivery
    - 1.5.1.1 Seed Protection
  - 1.5.2 Storage
    - 1.5.2.1 Seed, Fertilizer Storage
    - 1.5.2.2 Handling
- 1.6 TIME RESTRICTIONS AND PLANTING CONDITIONS
  - 1.6.1 Restrictions
- 1.7 TIME LIMITATIONS
  - 1.7.1 Seed

PART 2 PRODUCTS

- 2.1 TEMPORARY SEED MIX
  - 2.1.1 Classification
  - 2.1.2 Planting Dates
  - 2.1.3 Temporary Seed Mixture
- 2.2 MULCH
  - 2.2.1 Straw
  - 2.2.2 Hay
  - 2.2.3 Wood Cellulose Fiber Mulch
- 2.3 WATER

PART 3 EXECUTION

- 3.1 PREPARATION
  - 3.1.1 EXTENT OF WORK
- 3.2 SEEDING
  - 3.2.1 Seed Application Seasons and Conditions
  - 3.2.2 Seed Application Method
    - 3.2.2.1 Broadcast Seeding
  - 3.2.3 Mulching
    - 3.2.3.1 Hay or Straw Mulch
    - 3.2.3.2 Mechanical Anchor
- 3.3 PROTECTION OF TURF AREAS
- 3.4 RESTORATION

-- End of Section Table of Contents --

SECTION 32 92 19

SEEDING  
08/17

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

U.S. DEPARTMENT OF AGRICULTURE (USDA)

AMS Seed Act (1940; R 1988; R 1998) Federal Seed Act

1.2 DEFINITIONS

1.2.1 Stand of Turf

Established grasses in accordance with these plans and specifications.

1.3 RELATED REQUIREMENTS

Section 31 11 00 CLEARING AND GRUBBING applies to this section for pesticide use and plant establishment requirements, with additions and modifications herein.

1.4 SUBMITTALS

Government approval is required for submittals with a "G" classification. Submittals not having a "G" classification are for information only. When used, a code following the "G" classification identifies the office that will review the submittal for the Government. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-03 Product Data

Wood Cellulose Fiber Mulch

SD-07 Certificates

State Certification and Approval for Seed; G, RO

SD-08 Manufacturer's Instructions

Erosion Control Materials

1.5 DELIVERY, STORAGE, AND HANDLING

1.5.1 Delivery

1.5.1.1 Seed Protection

Protect from drying out and from contamination during delivery, on-site storage, and handling.

### 1.5.2 Storage

#### 1.5.2.1 Seed, Fertilizer Storage

Store in cool, dry locations away from contaminants.

#### 1.5.2.2 Handling

Do not drop or dump materials from vehicles.

### 1.6 TIME RESTRICTIONS AND PLANTING CONDITIONS

#### 1.6.1 Restrictions

Do not plant when the ground is frozen, snow covered, muddy, or when air temperature exceeds 90 degrees Fahrenheit.

### 1.7 TIME LIMITATIONS

#### 1.7.1 Seed

Apply seed within twenty four hours after seed bed preparation.

## PART 2 PRODUCTS

### 2.1 TEMPORARY SEED MIX

#### 2.1.1 Classification

Provide seed of the latest season's crop delivered in original sealed packages, bearing producer's guaranteed analysis for percentages of mixtures, purity, germination, weedseed content, and inert material. Label in conformance with AMS Seed Act and applicable state seed laws. Wet, moldy, or otherwise damaged seed will be rejected.

#### 2.1.2 Planting Dates

Planting dates are shown below. Dates may be altered based on weather conditions at the discretion of the Contracting Officer.

<u>Planting Season</u>	<u>Planting Dates</u>
Temporary Seeding	No Restrictions

#### 2.1.3 Temporary Seed Mixture

All varieties listed in the seed mixture table shall also have a minimum purity of 95 percent, a minimum germination rate of 85 percent, and a maximum weed content of 5 percent.

<u>Planting Season</u>	<u>Variety</u>	Pounds per Acre PLS
Spring Temporary Seeding	Wheat	40
Fall/Spring Temporary Seeding	Oats	40

## 2.2 MULCH

Mulch must be free from noxious weeds, mold, and other deleterious materials.

### 2.2.1 Straw

Stalks from oats, wheat, rye, barley, or rice. Furnish in air-dry condition and of proper consistency for placing with commercial mulch blowing equipment. Straw must contain no fertile seed.

### 2.2.2 Hay

Air-dry condition and of proper consistency for placing with commercial mulch blowing equipment. Hay must be sterile, containing no fertile seed.

### 2.2.3 Wood Cellulose Fiber Mulch

Use recovered materials of either paper-based (100 percent post-consumer content) or wood-based (100 percent total recovered content) hydraulic mulch. Processed to contain no growth or germination-inhibiting factors and dyed an appropriate color to facilitate visual metering of materials application. Composition on air-dry weight basis: 9 to 15 percent moisture, pH range from 5.5 to 8.2 . Use with hydraulic application of grass seed and fertilizer.

## 2.3 WATER

Source of water must be approved by Contracting Officer and of suitable quality for irrigation, containing no elements toxic to plant life.

## PART 3 EXECUTION

### 3.1 PREPARATION

#### 3.1.1 EXTENT OF WORK

Provide soil preparation, seeding, and surface topdressing of all areas inside or outside the limits of construction that are disturbed by the Contractor's operations, except: 1) areas which are designated for spoil from clearing and grubbing; 2) chute side slopes; 3) chute bottom; as shown on the drawings. See paragraph TEMPORARY SEED MIX for seed mix requirements.



### 3.2 SEEDING

#### 3.2.1 Seed Application Seasons and Conditions

Immediately before seeding, restore soil to proper grade. Do not seed when ground is muddy frozen snow covered or in an unsatisfactory condition for seeding. If special conditions exist that may warrant a variance in the above seeding dates or conditions, submit a written request to the Contracting Officer stating the special conditions and proposed variance. Apply seed within twenty four hours after seedbed preparation. Sow seed by approved sowing equipment. Sow one-half the seed in one direction, and sow remainder at right angles to the first sowing.

#### 3.2.2 Seed Application Method

Seeding method must be broadcast seeding.

##### 3.2.2.1 Broadcast Seeding

Level and firm the seedbed by disking and follow by cultipacking. Seed should be broadcast in a uniform manner. The seedbed should be cultipacked before and after seeding. It is acceptable to see up to a third of the seed on the soil surface. Wind speed should be less than 15 mph when using this method.

#### 3.2.3 Mulching

##### 3.2.3.1 Hay or Straw Mulch

Hay or straw mulch must be spread uniformly at the rate of 2 tons per acre over all seeded areas. Mulch must be spread by hand, blower-type mulch spreader, or other approved method. Mulching must be started on the windward side of relatively flat areas or on the upper part of steep slopes, and continued uniformly until the area is covered. The mulch must not be bunched or clumped. Sunlight must not be completely excluded from penetrating to the ground surface. All areas installed with seed must be mulched on the same day as the seeding. Mulch must be anchored immediately following spreading.

##### 3.2.3.2 Mechanical Anchor

Mechanical anchor must be a V-type-wheel land packer; a scalloped-disk land packer designed to force mulch into the soil surface; or other suitable equipment.

### 3.3 PROTECTION OF TURF AREAS

Immediately after turfing, protect area against traffic and other use.

### 3.4 RESTORATION

The Contractor shall be fully responsible for any damage or lack of cover caused by elements under his control. The Contracting Officer may direct that areas that become damaged be repaired and reseeded to specification requirements.

-- End of Section --

**This page was intentionally left blank for duplex printing.**

SECTION TABLE OF CONTENTS

DIVISION 35 - WATERWAY AND MARINE CONSTRUCTION

SECTION 35 01 00.00 23

TERMINOLOGY

**01/08**

PART 1 GENERAL

- 1.1 SCOPE OF WORK
- 1.2 REVETMENTS
- 1.3 DIKES
- 1.4 CONSTRUCTION REFERENCE PLANE

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

-- End of Section Table of Contents --

SECTION 35 01 00.00 23

TERMINOLOGY  
01/08

PART 1 GENERAL

1.1 SCOPE OF WORK

This section explains certain terminology and requirements which are common to construction of riverine rock training structures and which may not be self-explanatory in the subsequent sections.

1.2 REVETMENTS

The term "revetment" applies to the various types of bank stabilization structures that are constructed along the banks of the river approximately parallel to the current. The revetments are constructed of stone and wooden piles. The type of revetments to be constructed and repaired under these specifications are described in SPECIFICATION: REVETMENT and are shown on the drawings. Revetments repaired or modified under this contract might contain pre-existing piling. However, revetment construction under this contract will not require the addition of new piling. Revetments include bank paving, stone fill revetments, standard revetments, toe trench revetments, and bank heads.

1.3 DIKES

The term "dike" applies to those types of river training structures that are constructed from the bank of the river at an angle to the current. The term "dike" also refers to flow control structures within side channel chutes. Sills are lower elevation dikes located at either the riverward end of a dike or as a standalone dike. Sills are not located in chutes. Existing dikes are constructed of stone and wooden piles. The types of dikes to be constructed and repaired under these specifications are described in SPECIFICATION: DIKES and are shown on the drawings. Dike flow control structures will be referenced as such and specifically identified in drawings. Dikes and sills repaired or modified under this contract might contain pre-existing piling. However, dike and sill construction under this contract will not require the addition of new piling.

1.4 CONSTRUCTION REFERENCE PLANE

The Construction Reference Plane, abbreviated CRP, is a plane of elevation reference for the various types of construction required along the entire river. In construction usage the plane represents a hypothetical sloping line along the Missouri River from the vicinity of Sioux City, Iowa, to the mouth of the river. The Contracting Officer may place temporary Staff Gages in the immediate location of work for reference use by the Contractor. Any CRP elevations provided in this contract or during construction are for reference only and elevations relative to the North American Vertical Datum 1988 are given for project features and supersede CRP-referenced elevations. Water surfaces measured from CRP elevations in chutes can vary from CRP elevations measured from a staff gage in the adjacent river, and therefore, water surfaces relative to CRP are not an exact indicator of elevation at any location within a chute.

FY23 Jameson Chute Rehabilitation  
Saline County, MO

W912DQ23B1005

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

-- End of Section --

**This page was intentionally left blank for duplex printing.**

SECTION TABLE OF CONTENTS

DIVISION 35 - WATERWAY AND MARINE CONSTRUCTION

SECTION 35 20 23

DREDGING

**08/20**

PART 1 GENERAL

- 1.1 GENERAL INFORMATION
- 1.2 DEFINITIONS
  - 1.2.1 Dredge Material
  - 1.2.2 Hard Material
- 1.3 ENVIRONMENTAL COMPLIANCE AND PROTECTION

PART 2 PRODUCTS

- 2.1 CHARACTER OF MATERIAL

PART 3 EXECUTION

- 3.1 DREDGING
  - 3.1.1 Amount of Material to Dredge and Location
  - 3.1.2 Interference with Navigation
  - 3.1.3 Lights
  - 3.1.4 Dredge Plant and Equipment
  - 3.1.5 Obstructions and Debris
  - 3.1.6 Dredging Requirements
  - 3.1.7 Salvaged Material
  - 3.1.8 Safety of Structures
- 3.2 CONTRACT PRICE

-- End of Section Table of Contents --

SECTION 35 20 23

DREDGING  
08/20

PART 1 GENERAL

1.1 GENERAL INFORMATION

This Section covers furnishing suitable dredging plant and performing all work required to remove materials from within the prescribed staging limits as indicated to facilitate floating plant access to off loading sites, and placement of the dredge material within the prescribed material placement areas or within the main channel of the Missouri River. The Contractor is responsible for making their own investigation of submerged, surface, and overhead structures in the work areas and other locations they find necessary to traverse. There are no known utilities within the work area limits, but contractor is responsible to determine if submerged cables or pipelines occur in the area to be dredged. It will be necessary for the Contractor to ascertain interference problems and notify the respective owners in advance of dredging operations. The Contractor is responsible for making necessary arrangements with the respective owners of the structure(s) to assure satisfactory completion of dredging in the vicinity with a minimum interruption of service, and must perform their operations in such a manner as will avoid damage to these facilities.

1.2 DEFINITIONS

1.2.1 Dredge Material

Dredge material is defined as in situ bed material or material that has been deposited within dredge areas by the river after start of dredge.

1.2.2 Hard Material

Hard material is defined as material requiring special equipment for economical removal, and includes boulders or fragments too large to be removed in one piece by the dredge.

1.3 ENVIRONMENTAL COMPLIANCE AND PROTECTION

Comply with conditions and requirements of State or Federal permits. The Government will secure the permit for dredging and placement of material as indicated. Coordinate with Contracting Officer for placement of excavated materials.

During the life of the contract, provide and maintain environmental protective measures. Also, environmental protective measures required to correct conditions, such as oil spills or debris, that occur during the dredging operations, must be provided. Comply with Federal, State, and local regulations pertaining to water, air, and noise pollution.

Use of dredging must comply with requirements of the Emergency Dredging General Authorization Renewal Final Environmental Assessment/404 Clean Water Act Review including conditions stipulated in the State of Missouri Water Quality Certification (NWK-2020-005-CW/CEK007384). Contractor will notify USACE in advance of dredging. USACE will notify the U.S.



Environmental Protection Agency (EPA), U.S. Fish and Wildlife Service (USFWS), Missouri Department of Conservation (MDC), Missouri Department of Natural Resources (MoDNR) at least 36 hours in advance of the commencement of emergency dredging. If requested, a site inspection will be conducted with interested agencies to discuss the extent of dredging and disposal of spoils.

## PART 2 PRODUCTS

### 2.1 CHARACTER OF MATERIAL

The material to be removed is predominately sand and silt with a minor amount of organic matter such as trees and brush.

Removal of hard material is not required. Contractor shall adjust dredging area as needed to avoid the need to remove hard material.

## PART 3 EXECUTION

### 3.1 DREDGING

#### 3.1.1 Amount of Material to Dredge and Location

The Contractor will decide how much material to dredge and locations of dredging from within the construction limits based on depth needed for floating plant access and include in the Plan of Operations. Areas may need to be re-dredged over the duration of the contract if the river deposits additional sediment within the construction limits.

#### 3.1.2 Interference with Navigation

Minimize interference with the use of channels and passages. The Contractor is responsible for shifting or moving of dredges or the interruption of dredging operations to accommodate the movement of vessels and floating equipment, if necessary. Adhere to Coast Guard Regulations for passing vessels.

#### 3.1.3 Lights

Each night, between sunset and sunrise and during periods of restricted visibility, provide lights for floating plants, pipelines, ranges, and markers. Also, provide lights for buoys that could endanger or obstruct navigation. When night work is in progress, maintain lights from sunset to sunrise for the observation of dredging operations. Lighting must conform to United States Coast Guard requirements for visibility and color.

#### 3.1.4 Dredge Plant and Equipment

Contractor may use hydraulic suction dredge, prop wash, or trackhoe bucket to dredge material or other method approved by the Contracting Officer. Material may be loaded onto barges or discharged by pipeline. Material may be deposited on an existing sandbar to create a workpad or spoiled in the main channel of the river.

#### 3.1.5 Obstructions and Debris

The Government has no knowledge of cables, pipes, or other artificial obstructions or of any wrecks, wreckage, or other material that would necessitate the use of explosives or the employment of additional equipment

for economical removal. Contractors should however exercise due diligence in determining the existence of any obstructions within proposed construction limits during bid preparation.

#### 3.1.6 Dredging Requirements

Contractor may dredge as needed within the staging limits shown on the drawings and riverward of the high bank of the river.

#### 3.1.7 Salvaged Material

Anchors, chains, firearms, and other articles of value, which are brought to the surface during dredging operations, must remain or become the property of the Government and will be placed on shore at a convenient location near the site of the work, as directed.

#### 3.1.8 Safety of Structures

The prosecution of work must ensure the stability of adjacent rock river training structures by not dredging within 25 feet of any structure or deeper than elevation 578 within 50 feet of any structure.

#### 3.2 CONTRACT PRICE

Dredging is incidental to completion of contract and included in contract price. No seperate pay item for dredging will be provided.

-- End of Section --

SECTION TABLE OF CONTENTS

DIVISION 35 - WATERWAY AND MARINE CONSTRUCTION

SECTION 35 31 24.00 23

DESCRIPTION AND MEASUREMENT OF MATERIALS

01/08

PART 1 GENERAL

- 1.1 SCOPE OF WORK
- 1.2 SUBMITTALS

PART 2 PRODUCTS

- 2.1 GENERAL
  - 2.1.1 Quarry Operations
- 2.2 QUALITY
- 2.3 GRADATION AND FIELD TESTS

PART 3 EXECUTION

- 3.1 MEASUREMENTS
  - 3.1.1 Public Scales
  - 3.1.2 Barge Displacement
  - 3.1.3 Construction Documentation

ATTACHMENTS:

Attachments: 1. ENG\_FORM\_4794 2. Type 1 Gradation 3. Type 2 Gradation

-- End of Section Table of Contents --

SECTION 35 31 24.00 23

DESCRIPTION AND MEASUREMENT OF MATERIALS  
01/08

PART 1 GENERAL

1.1 SCOPE OF WORK

This section covers the requirements for quality and measurement of stone used in the construction of stone fill dikes, sills, bank paving, revetments, and flow control structures.

1.2 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-03 Product Data

Weigh Bill; G, RO  
Barge Displacement Table; G, RO  
Barge Displacement Measurements; G, RO

SD-04 Samples

Gradation And Field Tests; G, DO

SD-06 Test Reports

Quality Testing Results; G, DO  
Service Records And/Or Tests; G, DO

PART 2 PRODUCTS

2.1 GENERAL

Stone shall be broken, durable stone, approved by the Contracting Officer, that will not materially disintegrate under action of air and water. The sources from which the Contractor proposes to obtain the stone shall be selected at least 30 calendar days prior to submittal of a prospective quarry. Suitable samples of stone shall be obtained in the presence of a Government representative and shall be tested when required by an approved testing laboratory as designated by the Contracting Officer at the Contractor's expense prior to placing stone. No materials shall be used until approval of the designated source is obtained. The approval of a source shall not be construed as approval of all materials from that source, and material from certain areas, strata, or channels within the approved source shall be rejected. The acceptability of the stone will be subject to final approval by the Contracting Officer.

Stone shall not be stockpiled on-site and then moved to placement location. Stone shall be off loaded from barges directly onto trucks, hauled to the final placement location and placed in its final location by trackhoe or similar equipment. Stone shall not be dumped on top of bank and pushed down the slope for bank paving. Stone shall be dumped on control structures as near to final location as possible. Some minor pushing of rock will be allowed. Haul roads to island side of chute may be built on top of some existing stone fill structures and structures to be repaired or constructed in this contract as indicated in the drawings. Stone material placed outside the lines and grades shown in this contract for haul roads may not be reused for stone fill within the lines and grades of structures shown in this contract but may be wasted after use in areas shown on the drawings. Temporary modification of existing rock structures to facilitate construction may be permitted by the Contracting Officer.

#### 2.1.1 Quarry Operations

Conduct quarry operations in a manner to produce stone conforming to the requirements specified; this must involve selective quarrying, handling, processing, blending, and loading as necessary. Control blasting and handling of stone to produce stone of the size ranges and quality specified. Techniques such as the use of proper hole diameter, hole depth, hole angle, burden and spacing distances, types and distribution of explosives, delay intervals and sequence, removal of muck piles between each shot, and special handling techniques are required as necessary to produce the specified materials. All aspects of blasting operations shall be specifically designed so that the end product is not damaged from the blasting technique and that the stone is suitable for the intended purpose.

Temporary storage of stone materials subsequent to shipment from the quarry and prior to permanent placement in the required work shall be subject to approval of the Contracting Officer. Underwater storage of stone materials is prohibited.

#### 2.2 QUALITY

Service records and/or tests will be used to determine the acceptability of the stone. Sources without service records in the past 10 years shall be tested prior to use and in each even numbered year thereafter. Satisfactory service records shall be accepted in odd-numbered years in lieu of testing of stone for physical properties. Stone accepted on a service record alone shall have demonstrated its ability to withstand deterioration under service conditions. A suitable service record will show date last used, identification of ledges to be used, name of previous user, quantities produced since last tested, and results of most recent tests. The source to be utilized shall have been tested within 24 months prior to use under this contract. In the absence of a suitable service record, the stone shall be subjected to any or all of the following quality tests, as determined necessary by the Contracting Officer. Submit quality testing results upon completion.

Bulk specific gravity saturated surface-dry basis, method ASTM C 127 - not less than 2.40. One determination shall be performed for each selected stone source prior to using stone from each quarry for construction. Additional determinations shall be performed onsite for every 10,000 tons of stone material placed and if it appears the specific gravity of the stone has changed.

Soundness in freezing and thawing method for ledge stone, Method CRD-C

144-92 loss at 20 cycles - not more than 25 percent for at least 50 percent of the face height to be quarried. Length of a freezing and thawing cycle shall be 24 hours - i.e., 16 hours of freezing, followed by 8 hours of thawing.

Samples shall be representative of the full face to be quarried and shall be taken for each bed in excess of 6-inch thickness, except that for zones containing beds of uniform lithologic properties only one sample for each 5 feet of thickness will be required.

Samples shall be numbered (or lettered) in consecutive order from the top to bottom of the quarry face and the top side of each sample shall be so marked. A sketch section shall be prepared of the full quarry face showing bed thickness, color, hardness, type of stone (shale, limestone, etc.) and the location (bed) of each sample. The sketch section shall accompany, and will be considered part of the quality testing results submittal requirement.

### 2.3 GRADATION AND FIELD TESTS

Stone shall be reasonably well graded, free from overburden, spoil, shale, and unsuitable material. The quantity of dirt and fines less than ½-inch maximum cross section, accumulated from interledge layers, blasting, handling operations, and/or all other sources, shall not exceed 5 percent by weight.

For Type 1 stonefill, the maximum weight of any piece of stone shall be limited to 3,000 pounds for stone fill dikes, sills, bank heads, stone fill revetment, stone fill in and along pile structures (including stone roots), trench fill for toe trench revetment, trench fill and stone fill for bank paving unless otherwise directed by the Contracting Officer.

For Type 2 stonefill, the maximum weight of any piece of stone shall be limited to 3,000 pounds for chute flow control structures or chute closure structures. Occasional pieces slightly larger than the maximum size may be permitted, provided that gradation and voids requirements are maintained.

Quarry operations shall be controlled to produce well graded stone between the maximum and minimum limits indicated below for Type 1 and Type 2 stone. The Contracting Officer may require changes in quarry operation as necessary to produce the required product.

The stone shall be reasonably well graded between the follow limits for Type 1 and Type 2 stone:

Type	Stone Weight, LBS	Percent Passing	FOR REFERENCE ONLY Size in Approx. Spherical Diameter (in)
Type 1	3000	80-100%	39
	1000	60-90%	27
	500	30-70%	22
	100	0-50%	13
	50	0-35%	10
	1	0-5%	3
Type 2	3000	70-100%	39
	2000	60-90%	34
	500	30-70%	22
	100	0-50%	13
	50	0-35%	10
	1	0-5%	3

Not more than 5 percent by weight finer than 1/2-inch screen. Plots of the gradation curves for Type 1 and Type 2 stone are attached at the end of this section.

Tests to determine the quantity of dirt and fines less than ½-inch maximum cross section and to determine the gradation of the quarried stone material shall be performed by the Contractor, under the supervision of the Contracting Officer, by approved methods. A representative sample consisting of not less than 25 tons shall be tested at the start of quarry operations for each different source of stone material and for each specified gradation as directed by the Contracting Officer. The Contractor shall provide an acceptable stockpile of 50 tons of stone that meets the specified gradation to serve as a visual aid for production at the quarry and/or the dock barge at the discretion of the Contracting Officer.

A minimum of one gradation test shall be performed for each batch of 35,000 tons or less of stone purchased. The Contractor shall notify the Contracting Officer not less than 3 work days in advance of each test. In the event of unavailability of the Government representative, the Contractor may perform the tests and certify to the Contracting Officer that the stone complies with the specifications. The Contractor shall plot the results of each test for gradation in relation to the gradation limits envelope specified. The plots shall be made on Engineering Form 4794, furnished by the Contracting Officer, or on a similar form. Results of the field test and the plot shall be furnished to the Contracting Officer prior to placement of the stone. Failure of the test on the initial sample and on any additional samples will be considered cause for reject of the quarry and/or quarry process, and all stone represented by the failed tests shall

be set aside and not incorporated into the work, unless the contractor provides a solution to the contracting officer and it is then approved by the Contracting Officer.

Any additional test required because of the failure of the an initial test sample will not be considered as one of the required tests. Test results must be received by the Government representative before the stone is used in the work. Additional tests may be required by the Government during any 35,000 ton or less production run of stone. Additional tests of the same production run may be required by the Government, and shall be at the contractor's expense. The gradation tests shall not exceed 3 tests from each 50,000 ton production run, and at the discretion of the Contraction Officer, be taken from either the quarry or from a loaded barge. The contractor may test to prove suitability of visually rejected material at the Contractor's expense, and in addition to the tests specified above.

### PART 3 EXECUTION

#### 3.1 MEASUREMENTS

Materials shall be measured at such times and places as approved by the Contracting Officer.

Stone shall be measured for payment by one of the following methods at the option of the Contractor, and weights or computations converted to short tons. Measured stone quantities shall be used for basis of progress payments and shall be tracked during construction.

##### 3.1.1 Public Scales

Stone delivered at the site of the work can be weighed on public scales or privately owned scales generally used by the public which have been certified by the State in which the scales are located and which have been approved by the Contracting Officer. If public scales are not available, the Contractor can furnish approved scales, subject to certification acceptable to the Contracting Officer, with the weighing service to be supplied by an independent professional organization approved by the Contracting Officer. The Contractor shall furnish the Government inspector a legible copy of each weigh bill, when self-printing scales are used, or a legible copy of the weigh bill signed by the weighmaster as each load is delivered to the jobsite. All cost for weighing the stone on a public or quasi-public scale shall be borne by the Contractor.

##### 3.1.2 Barge Displacement

Stone delivered to the site of the work can be measured for payment by barge displacement. The Contractor shall furnish the Contracting Officer a current barge displacement table not less than 10 days prior to using a barge. The table shall be certified accurate by a person or firm, other than the Contractor accustomed to performing this service and approved by the Contracting Officer. Barge tables furnished shall contain, in parallel columns, the draft of the barge in feet and hundredths from zero to the full depth of the barge, and corresponding gross displacement to the nearest 100th of a ton. Tables submitted shall show the name or number of the barge, the barge dimensions, the barge owner, the name of the manufacturer, the date of preparation of the table, and the certification of the person or firm preparing the table. The Contractor shall furnish, with the barge displacement table, a drawing or sketch of each barge, dimensioned in sufficient detail to permit verification of the values shown



in the tables. The drawing shall show, as a minimum, the weight, length, width, and depth of the barge and dimensions of rake or rakes, including radius, origin of radius, and headlong dimensions. Upon request by the Contractor, and after completion of the contract, the Contracting Officer will return all required barge displacement tables, drawings, or sketches to the Contractor. Each barge on which stone is furnished shall be suitably marked with paint of a contrasting color at each of the displacement gauging points along each side of the barge. The marks shall be perpendicular to the edge of the barge, 4 inches wide and 1 foot in length, painted on both the deck and side. The marks shall be located on each corner of the barge near the lower end of the rake and three additional marks equally spaced amidships. The barge name or number shall be affixed to the deck and sides of the barge, both fore and aft, and shall be of sufficient size and legibility so as to be plainly seen and read. Barge displacement measurements will be recorded at the fore and aft, port and starboard side of each barge by the Contractor to the nearest 0.01 foot and verified by the Contracting Officer representative. All costs for measuring barges, except the cost verification by the Contracting Officer representative, shall be borne by the Contractor.

Trucks shall be weighed to the nearest 200 pounds and the accumulative net weight reduced to the nearest 20th of a ton. Trucks shall be tared at least twice a day. Barge displacement shall be measured to the nearest 100th of a foot and the net weight computed to the nearest 100th of a ton. Barges shall be measured before and after each loading.

### 3.1.1.3 Construction Documentation

For all work completed on any river structure including spoil placement, structure extensions, structure raising, structure removal, or new construction the contractor shall submit the following information in both the Daily Quality Control narrative and in a Weekly Completed Work electronic spreadsheet format:

- a. The contract or task order number with CLIN number or reach
- b. structure number
- c. river mile
- d. beginning and ending dates of structure work
- e. beginning and ending stationing of work completed
- f. stationing of breaks in elevations
- g. stationing at changes in construction types
- h. completed elevations, completed dimensions of the structure
- i. stationing of work not completed and an explanation of why it was not completed
- j. tons of material placed
- k. cubic yards removed
- l. barge numbers
- m. barge displacement measurements as outlined in this specification section.

The format in the Daily Quality Control narrative shall be consistent from day to day and the format in the Weekly Completed Work electronic spreadsheet format shall be consistent from week to week. The electronic spreadsheet format should be submitted to the Contracting Officer Representative weekly by email. Variation of the specified items in the electronic spreadsheet is allowed with approval by the Contracting Officer.

Attachments:

FY23 Jameson Chute Rehabilitation  
Saline County, MO

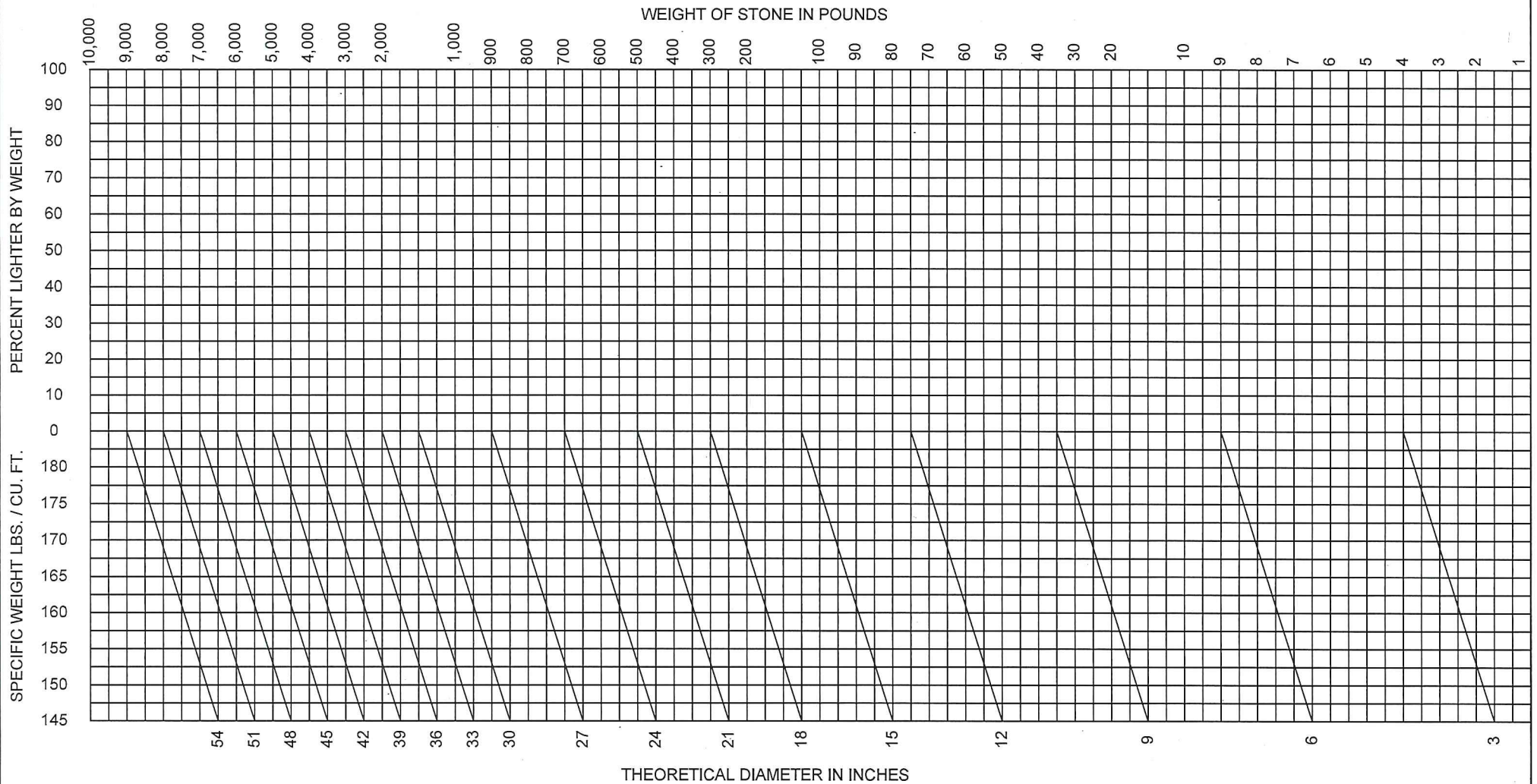
W912DQ23B1005

1. ENG\_FORM\_4794
2. Type 1 Gradation
3. Type 2 Gradation

-- End of Section --

# RIPRAP GRADATION CURVES

For use of this form, see EM 1110-2-1601; the proponent agency is DAEN-CWE-HO.



1. RIPRAP GRADATION SUMMARY NOTES

3. PROJECT

4. AREA

5. DATE (YYYYMMDD)

6. BY (Last, First MI)

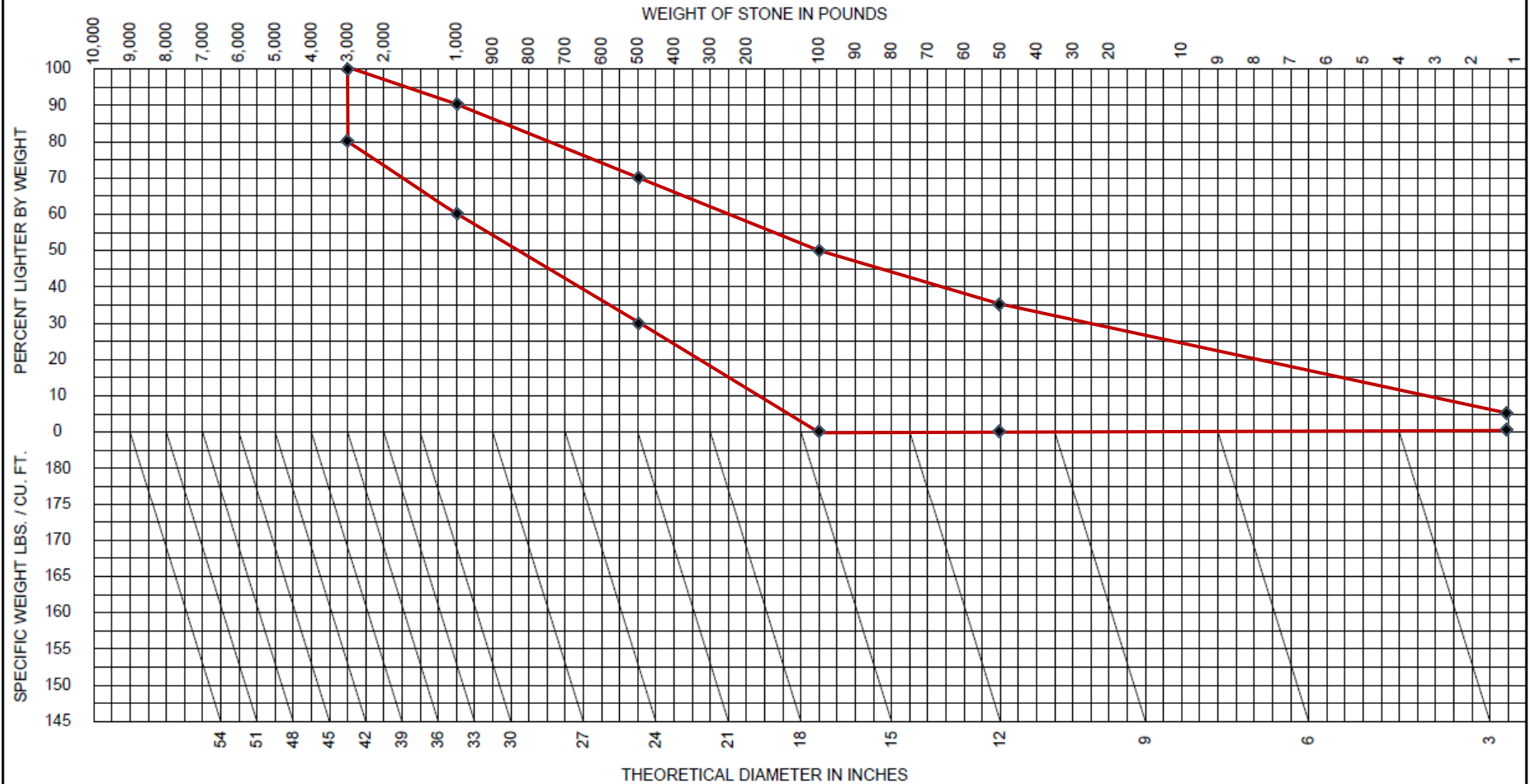
2. SPECIFIC WEIGHT OF STONE (LBS / CU FT)

7. BY SIGNATURE

**This page was intentionally left blank for duplex printing.**

# RIPRAP GRADATION CURVES

For use of this form, see EM 1110-2-1601; the proponent agency is DAEN-CWE-HO.



## 1. RIPRAP GRADATION SUMMARY NOTES

### Type 1 Gradation

No more than 5% by weight finer than 1/2" screen

## 3. PROJECT

## 4. AREA

5. DATE (YYYYMMDD) 6. BY (Last, First MI)

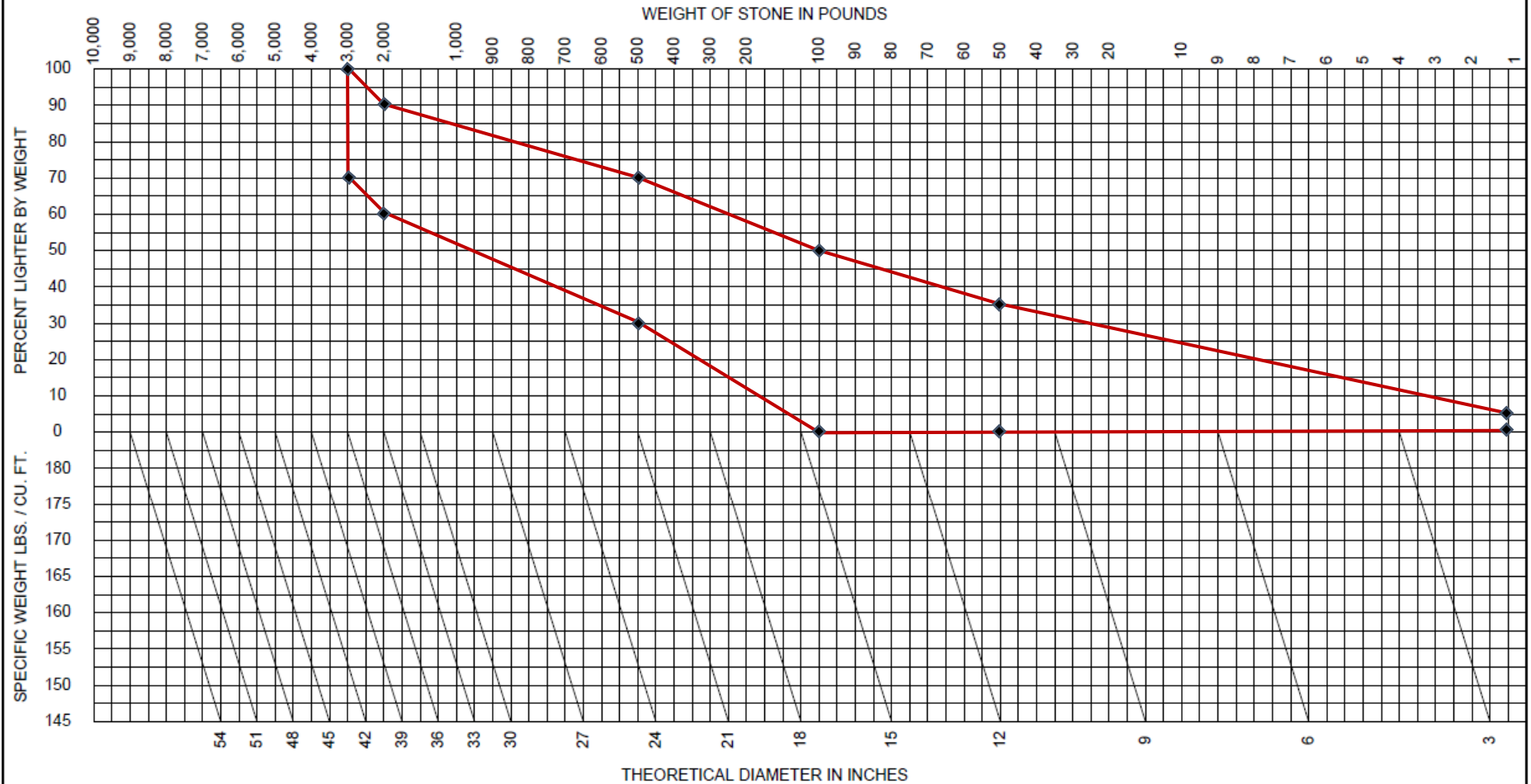
## 2. SPECIFIC WEIGHT OF STONE (LBS / CU FT)

## 7. BY SIGNATURE

**This page was intentionally left blank for duplex printing.**

# RIPRAP GRADATION CURVES

For use of this form, see EM 1110-2-1601; the proponent agency is DAEN-CWE-HO.



## 1. RIPRAP GRADATION SUMMARY NOTES

### Type 2 Gradation

No more than 5% by weight finer than 1/2" screen

## 3. PROJECT

## 4. AREA

5. DATE (YYYYMMDD) 6. BY (Last, First MI)

## 2. SPECIFIC WEIGHT OF STONE (LBS / CU FT)

## 7. BY SIGNATURE

**This page was intentionally left blank for duplex printing.**



SECTION TABLE OF CONTENTS

DIVISION 35 - WATERWAY AND MARINE CONSTRUCTION

SECTION 35 35 00.00 23

DIKES

**01/08**

PART 1 GENERAL

- 1.1 SCOPE OF WORK
- 1.2 STONE PLACEMENT

PART 2 PRODUCTS

- 2.1 STONE

PART 3 EXECUTION

- 3.1 STONE FILL DIKES
  - 3.1.1 General
  - 3.1.2 Excavation for Placement
  - 3.1.3 Contract Price

-- End of Section Table of Contents --

SECTION 35 35 00.00 23

DIKES  
01/08

PART 1 GENERAL

1.1 SCOPE OF WORK

This section covers the requirements for construction and repair of stone fill dikes, sills, and flow control structures collectively termed dikes.

1.2 STONE PLACEMENT

Construction and repair of dikes and flow control structures will be performed up to lines and grades as shown in the drawings for the listed structures as provided in Specification Section 01 11 00 SUMMARY OF WORK. Stone shall not be placed when the depth of water above the scheduled finished grade of the structure exceeds 5 feet, unless directed otherwise by the Contracting Officer. To prevent excessive scour ahead of stone fill placement for new flow control structures, stage must not exceed a height of 5 feet above the finished height of the structure during placement of the first lift of stone fill across the entirety of the structure. Contractor must time placement of this first lift to take advantage of favorable precipitation and river stage forecast to minimize the probability that the stage exceeds 5 feet during placement of the first lift. The elevation of the first lift shall be 4 feet in thickness or the minimum necessary for use of land-based equipment. Floating plant or land access or a combination of both may be used for repair or construction unless otherwise specified by the Contracting Officer.

PART 2 PRODUCTS

2.1 STONE

Stone shall conform to SECTION: 35 31 24.00 23 DESCRIPTION AND MEASUREMENT OF MATERIALS.

PART 3 EXECUTION

3.1 STONE FILL DIKES

3.1.1 General

A stone fill dike flow control structure shall consist of stone placed along the structure azimuth line to the cross section shown on the contract drawings. The centerline of the stone fill shall coincide with the structure azimuth line, except where otherwise noted in the contract drawings. The Contractor shall use floating plant or land based equipment or a combination of both to place the stone unless otherwise authorized by the Contracting Officer. Care shall be exercised in placing the stone so as to eliminate segregation into sections of either excessively large or excessively small stone. Stone placed shall be placed with equipment using an excavator bucket or other suitable equipment approved by the Contracting Officer. All logs, snags, stumps, trees, and such other obstructions that would prevent uniform settling of the stone fill shall be removed from the area.

### 3.1.2 Excavation for Placement

Excavation of sand and silt may be required along the structure alignment to place stone fill at the required bottom elevation as shown in the drawings. All material excavated to place stone fill at the required elevation is considered incidental. Material excavated or moved during dike construction may be wasted in the river downstream of the structure location. Wasted material must not be placed higher than the top elevation of the structure under construction.

### 3.1.3 Contract Price

The cost of all plan, labor, and materials required for placement of stone in dikes shall be included in the applicable contract price, per job.

-- End of Section --

**This page was intentionally left blank for duplex printing.**

SECTION TABLE OF CONTENTS

DIVISION 35 - WATERWAY AND MARINE CONSTRUCTION

SECTION 35 35 01.00 23

REVETMENT

**01/08**

PART 1 GENERAL

- 1.1 SCOPE OF WORK
- 1.2 STONE PLACEMENT

PART 2 PRODUCTS

- 2.1 STONE

PART 3 EXECUTION

- 3.1 GENERAL
- 3.2 STONE FILL REVETMENT
- 3.3 BANK PAVING
- 3.4 JUNCTURE WITH OTHER TYPES OF REVETMENT
- 3.5 CONTRACT PRICE

-- End of Section Table of Contents --

SECTION 35 35 01.00 23

REVETMENT  
01/08

PART 1 GENERAL

1.1 SCOPE OF WORK

This section covers the requirements for construction and repair of standard (toe trench) revetment, stone fill revetment, bank paving and other bank armoring collectively termed revetment.

1.2 STONE PLACEMENT

Construction and repair of revetments will be performed as discussed in Specification Section 01 11 00 SUMMARY OF WORK for the listed structures within each CLIN, and as shown in the drawings. The height and dimensions of each revetment construction or repair will be as shown on the drawings. For bank paving, stone shall not be placed when the height of water exceeds 5 feet below the maximum elevation of any portion of the structure, unless directed otherwise by the Contracting Office. The stone fill toe, defined as the part of the revetment below 10 feet measured from the finished elevation of the structure, must be placed before the upper slope of the revetment is placed.

PART 2 PRODUCTS

2.1 STONE

Stone shall conform to SECTION: 35 31 24.00 23 DESCRIPTION AND MEASUREMENT OF MATERIALS

PART 3 EXECUTION

3.1 GENERAL

As indicated in project drawings, the Contractor shall construct bank paving and other bank protection by floating plant or land based equipment or a combination of both approved by the Contracting Officer to obtain the proper configuration and alignment while placing stone features on river or chute banks.

3.2 STONE FILL REVETMENT

For repair or construction of Stone Fill Revetment, a fill consisting of stone shall be placed along the structure azimuth line to a cross-section and elevation as shown on the contact drawings or to such elevation as specified by the Contracting Officer. To reduce scour ahead of fill for newly constructed revetment or revetment segment, a base lift of 3 to 5 feet thickness shall be placed for the entire length of the revetment before placement of stone to final grade, unless otherwise approved by the Contracting officer.

### 3.3 BANK PAVING

Construction of new bank paving must conform to the lines, grades, and details for bank paving provided in the drawings. If needed, excavation and grading of the bank shall be done in accordance with SECTION 31 00 00 EARTHWORK prior to stone placement for bank paving. Spoils excavated shall be placed in the river at least 20' from the toe of the new bank paving or temporarily placed on top of the bank. Voids in the bank under the typical bank paving template shall be filled with rock.

Any bank paving designated to have material spoiled over the top of it must be completed, and inspected, and approved by the Contracting Officer prior to the placement of any spoil over placed stone. No material, such as large tree trunks, may be spoiled over placed stone that could damage stone features.

### 3.4 JUNCTURE WITH OTHER TYPES OF REVETMENT

At locations where stone fill revetment or other bank protection structures changes slope, alignment, elevation, or other characteristics, a transition shall be made by gradually adjusting the alignment and slope of the stone fill revetment at the junction of the structures. The transition shall be made in such a way as to create a smooth juncture and as directed by the Contracting Officer.

### 3.5 CONTRACT PRICE

The cost of all plant, labor, and materials required for the placement of stone for Revetment, as described herein, shall be included in the applicable contract price, per job.

-- End of Section --

**This page was intentionally left blank for duplex printing.**



SECTION TABLE OF CONTENTS

DIVISION 35 - WATERWAY AND MARINE CONSTRUCTION

SECTION 35 73 24.00 23

BANKLINE EXCAVATION

**01/08**

PART 1 GENERAL

1.1 SCOPE OF WORK

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION

3.1 GENERAL

3.2 DISPOSAL OF EXCAVATED MATERIAL

3.3 BIDDING SCHEDULE ITEMS

-- End of Section Table of Contents --

SECTION 35 73 24.00 23

BANKLINE EXCAVATION  
01/08

PART 1 GENERAL

1.1 SCOPE OF WORK

This section covers the requirements for bank excavation and subsequent disposal of excavated material to accommodate the construction or repair of all features and structures in this Contract.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION

3.1 GENERAL

Certain dike and revetment construction or repairs, as shown in the drawings or as directed by the Contracting Officer, will require the excavation of the bank prior to stone placement.

Grading of the upper and lower bank will be required for the construction of some features, including but not limited to bank paving, flow control dikes, and revetments as shown in the drawings or as directed by the Contracting Officer.

Excavation will be by excavator bucket or by other method as elected by the contractor and approved by the Contracting Officer. Material to be excavated is expected to consist primarily of sandy or clay soils with some gravel and occasional boulders and woody debris.

3.2 DISPOSAL OF EXCAVATED MATERIAL

Material excavated in accordance with the preceding paragraphs for revetments and dikes shall be disposed of by placing on the bank slope over the top of completed, inspected, and approved stone features. Material may be temporarily stockpiled within the clearing limits as specified by Contracting Officer. Materials placed over the top of completed structures may be roughly graded so that the temporary spoil pile is less than six feet thick and roughly follows the contours of the bank line. All excavated material temporarily placed on the top of bank must be removed and placed on top of completed structures or in the river. Material excavated for construction of the flow control dikes shall be placed downstream of the structure.

3.3 BIDDING SCHEDULE ITEMS

Bankline excavation under this contract is incidental to the placement of dike roots and bank paving and there will be no separate pay item for bankline excavation.

-- End of Section --