PROJECT MANUAL WASTEWATER SYSTEM IMPROVEMENTS CONTRACT I: PARNELL ROAD SEWER FORCE MAIN EXTENSION AND VALVES FOR MASTER METERS EL DORADO RURAL PUBLIC WATER AUTHORITY PROJECT NO. 23-203

January 2024 Rev. April 2025

Prepared By: Gaunt Engineers, Inc.
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ADDENDUM NO. 1 WASTEWATER SYSTEM IMPROVEMENTS CONTRACT I: PARNELL ROAD SEWER FORCE MAIN EXTENSION AND VALVES FOR MASTER METERS EL DORADO RURAL PUBLIC WATER AUTHORITY 15 July 2025

INSTRUCTIONS

PROJECT MANUAL:

Section D: Bid

Replace existing pages D-3 and D-4 with the attached pages D-3 and D-4. (Reduce to 5 pump stations, delete customer notifications, require bidder to list the proposed manufacturer of pump and panel supplies.)

Section 11304: Package Grinder Pump Station:

- 1. Myers/Pentair Model UH20-21-35 is approved as an alternate pump manufacturer in accordance with 2.02.B.
- 2. As noted in 2.15.E, equipment is to be supplied with an air column sensor and pressure switch rather than a float system.
- 3. In Contract I, the contractor is to install the pumps and control panels.

PLANS

Replace Sheet 2 with the attached Sheet 2 (corrected identification of the existing air release valve).

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ADDENDUM NO. 2 WASTEWATER SYSTEM IMPROVEMENTS CONTRACT I: PARNELL ROAD SEWER FORCE MAIN EXTENSION AND VALVES FOR MASTER METERS EL DORADO RURAL PUBLIC WATER AUTHORITY 30 July 2025

INSTRUCTIONS

PROJECT MANUAL:

Section 11304: Package Grinder Pump Station

1. The Myers/Pentair model approved as an alternate in accordance with 2.02.B was mistyped in Appendix 1. The correct number is VH20-21-35.

PLANS

No changes.

PREPARED BY:

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Document A ADVERTISEMENT FOR BIDS

El Dorado Rural Public Water Authority 3256 W. Hillsboro El Dorado, AR 71730

Separate sealed Bids for the construction of Wastewater System Improvements: Contract I (Parnell Road Sewer Force Main Extension and Valves for Master Meters), Contract II (Replacement Grinder Pumps), and Contract III (Vacuum Pump and Trailer) will be received by the El Dorado Rural Public Water Authority at 3256 W. Hillsboro, El Dorado, AR 71730 until 1:15 p.m. on Wednesday, August 6, 2025 and then at said office publicly opened and read aloud.

The Contract Documents may be examined at the following locations: Gaunt Engineers, Inc., 3256 W. Hillsboro, El Dorado, AR 71730 www.gauntengineers.net

Copies of the Contract Documents may be obtained at the office of **Gaunt Engineers**, **Inc.** located at **3256 W. Hillsboro**, **El Dorado**, **AR 71730** upon **nonrefundable** payment of \$50.00 for each set **for each respective contract**.

Any contract or contracts awarded under this invitation for bids will be subject to the requirements of the Arkansas Revolving Loan Fund (RLF) Programs as described in the contract documents.

All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin. Bidders on this work will be required to comply with the President's Executive Order 11246, as amended. The requirements for Bidders and Contractors under this order are explained in the specifications.

Each Bidder must comply with the requirements, terms, and conditions of the Arkansas Natural Resources Commission, the Disadvantaged, Minority and Women Business Enterprise (DBE/MBE/WBE) requirements, the Consolidated Appropriations Act of 2014 (Public Law 113-76) including the "American Iron and Steel (AIS)" requirement, Labor Standards, Equal Employment Opportunity, and the "Prohibition on certain telecommunication and video surveillance services or equipment provisions" during the performance of this contract. The Bidder commits itself to the requirements for the participation contained herein and all other requirements, terms, and conditions of these bid conditions by submitting a properly signed Bid. Each requirement listed above for the RLF programs are in the Supplemental Conditions in the Contract Documents.

Document B INFORMATION FOR BIDDERS

Bids will be received by **the El Dorado Rural Public Water Authority** (herein called the "Owner") at **3256 W. Hillsboro, El Dorado, AR 71730** until **1:15 p.m., Wednesday, August 6, 2025** and then at said office publicly opened and read aloud.

Each Bid must be submitted in a sealed envelope, addressed to the El Dorado Rural Public Water Authority at 3256 W. Hillsboro, El Dorado, AR 71730.

Each sealed envelope containing a Bid must be plainly marked on the outside as Bid for Wastewater System Improvements: Contract I—Parnell Road Sewer Force Main Extension and Valves for Master Meters, Contract II—Replacement Grinder Pumps, or Contract III— Vacuum Pump and Trailer, as applicable and the envelope should bear on the outside the Bidder's name, address, and license number if applicable, and the name of the project for which the Bid is submitted. If forwarded by mail, the sealed envelope containing the Bid must be another addressed enclosed in envelope the Owner to at 3256 W. Hillsboro, El Dorado, AR 71730.

The Bidders attention is called to the requirements of the Supplemental General Conditions for the Revolving Loan Fund (RLF) contained in the contract documents including but not limited to Disadvantaged, Minority and Women's Business (DBE/MBE/WBE) participation and reporting requirements as well as the "American Iron and Steel" requirement, Labor Standards, Equal Employment Opportunity, and the "Prohibition on certain telecommunication and video surveillance services or equipment". Further, Bidders will be required to submit with their Bids, a Contractor's Act of Assurance Form certifying their understanding of and compliance with the Supplemental General Conditions. In addition, post Bid completion of DBE/MBE/WBE Compliance Evaluation Forms will be required and approved before the Contract can be Awarded.

All Bids must be made on the required Bid form. All blank spaces for Bid prices must be filled in, in ink or typewritten, and the Bid form must be fully completed and executed when submitted. Only one copy of the Bid form is required.

The Owner may waive any informalities or minor defects or reject any and all Bids. Any Bid may be withdrawn prior to the above scheduled time for the opening of Bids or authorized postponement thereof. Any Bid received after the time and date specified shall not be considered. No Bidder may withdraw a Bid within sixty days after the actual date of the opening thereof. Should there be reasons why the contract cannot be Awarded within the specified period, the time may be extended by mutual agreement between the Owner and the Bidder.

Bidders must satisfy themselves of the accuracy of the estimated quantities in the Bid schedule by examination of the site and a review of the drawings and specifications including Addenda. After Bids have been submitted, the Bidder shall not assert that there was a misunderstanding concerning the quantities of Work or of the nature of the Work to be done.

The Owner shall provide to Bidders prior to Bidding, all information that is pertinent to, and delineates and describes, the land owned and rights-of-way acquired or to be acquired.

The Contract Documents contain the provisions required for the construction of the Project. Information obtained from an Officer, Agent, or Employee of the Owner or any other person shall not affect the risks or obligations assumed by the Contractor or relieve the contractor from fulfilling any of the conditions of the Contract.

Each Bid must be accompanied by a Bid Bond payable to the Owner for five percent of the total amount of the Bid. As soon as the Bid prices have been compared, the Owner will return the Bonds of all except the three lowest responsible Bidders. After Bids have been opened and prior to Award, the apparent low Bidder will have fifteen business days to submit their DBE solicitation process and forms. All Bidders, as a condition of bidding, are required to document to the Owner

and to the Commission that the "good faith efforts" were taken in the preparation of bids to obtain DBE/MBE/WBE participation. The Commission will give notice when the Contractor and Entity can sign the Agreement. When the Agreement is executed the Bonds of the two remaining unsuccessful Bidders will be returned. The Bid Bond of the successful Bidder will be retained until the Payment Bond and Performance Bond have been executed and approved, after which it will be returned. A certified check may be used in lieu of a Bid Bond.

A Performance Bond and a Payment Bond each in the amount of 100 percent of the Contract Price, with a corporate surety approved by the Owner, will be required for the faithful performance of the contract.

Attorneys-in-Fact who sign Bid Bonds or Payment Bonds and Performance Bonds must file with each Bond a certified and effective dated copy of their Power of Attorney. Attorneys-in-Fact that sign the Bonds must be licensed to conduct business in the State of Arkansas.

The party to whom the contract is Awarded will be required to execute the Agreement, and obtain the performance Bond and payment Bond within ten calendar days from the date when Notice of Award is delivered to the Bidder. The Notice of Award shall be accompanied by the necessary Agreement and Bond forms. In case of failure of the Bidder to execute the Agreement, the Owner may consider the Bidder in default; in which case the Bid Bond accompanying the proposal shall become the property of the Owner.

Successful Bidder must comply with the requirements of Arkansas Code Ann. §17-25-401-409 (1995) in accordance with the procedures established by the Contractors Licensing Board (Reference Supplemental General Conditions).

Successful Bidder must comply with the requirements of Act 291 of 1993 concerning trenches or other excavations five feet deep or more in accordance with OSHA standards.

The Owner within ten days of receipt of acceptable Performance Bond, Payment Bond and Agreement signed by the party to whom the Agreement was awarded shall sign the Agreement and return to such party an executed duplicate of the Agreement. Should the Owner not execute the Agreement within such period, the Bidder may by Written Notice withdraw the signed Agreement. Such notice of withdrawal shall be effective upon receipt of the notice by the Owner.

The Notice to Proceed shall be issued within ten days of the execution of the Agreement by the Owner. Should there be reasons why the Notice to Proceed cannot be issued within such period, the time may be extended by mutual agreement between the Owner and Contractor. If the Notice to Proceed has not been issued within the ten day period or within the period mutually agreed upon, the Contractor may terminate the Agreement without further liability on the part of either party.

The Bidder must present satisfactory evidence that he has been regularly engaged in the type of work Bid upon, giving the length of time so engaged, and that he is fully prepared with the necessary capital, material, machinery, and expert workmen to perform the contract.

The attention of prospective Bidders is directed to Act 150 of the 1965 Acts of Arkansas, being an "Act Regulating the Practice of Contracting in the State of Arkansas". When the project presented for Bid is financed in whole or in part with State funds and is estimated to cost \$20,000.00 or more, the prospective Bidder must show evidence of license with the "Contractor's Licensing Board" for the State of Arkansas before a proposal form will be furnished.

The Owner may make such investigations as deemed necessary to determine the ability of the Bidder to perform the Work, and the Bidder shall furnish to the Owner all such information and data for this purpose as the Owner may request. The Owner reserves the right to reject any Bid if the evidence submitted by, or investigation of, such Bidder fails to satisfy the Owner that such

Bidder is properly qualified to carry out the obligations of the Agreement and to complete the Work contemplated therein.

A conditional or qualified Bid will not be accepted.

Award will be made to the lowest responsible Bidder.

All applicable laws, ordinances and the rules and regulations of all authorities having jurisdiction over construction of the Project shall apply to the contract throughout.

Each Bidder is responsible for inspecting the site and for reading and being thoroughly familiar with the Contract Documents. The failure or omission of any Bidder to do any of the foregoing shall in no way relieve any Bidder from any obligation in respect to its Bid.

Further, the Bidder agrees to abide by the requirements set forth in the Supplemental Conditions.

The low Bidder shall supply the names and addresses of major material Suppliers and Subcontractors when required to do so by the Owner.

Inspection trips for prospective Bidders will leave from the office of **Gaunt Engineers**, **Inc.** at **3256 W. Hillsboro**, **El Dorado**, **AR 71730**.

The ENGINEER is Gaunt Engineers, Inc.

The ENGINEER'S address is 3256 W. Hillsboro, El Dorado, AR 71730.

Document C **REVOLVING LOAN FUND (RLF) Davis Bacon Wage Determination**

"General Decision Number: AR20250043 01/03/2025

Superseded General Decision Number: AR20240043

State: Arkansas

Construction Type: Heavy

HEAVY CONSTRUCTION PROJECTS (Including Water and Sewer Lines)

County: Union County in Arkansas.

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(1).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an |. The contractor must pay option is exercised) on or after January 30, 2022:

- . Executive Order 14026 generally applies to the contract.
- all covered workers at least \$17.75 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2025.

If the contract was awarded on |. Executive Order 13658 or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:

- generally applies to the contract.
- . The contractor must pay all covered workers at least \$13.30 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2025.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at http://www.dol.gov/whd/govcontracts.

Modification Number Publication Date 0 01/03/2025

SUAR2015-040 01/09/2017

	Rates	Fringes
CARPENTER, Includes Form Wo	ork\$ 16.41 **	3.15
LABORER: Common or General	\$ 12.25 **	0.00
LABORER: Pipelayer	\$ 12.25 **	0.00
OPERATOR: Backhoe/Excavator/Trackhoe.	\$ 21.48	0.00
OPERATOR: Bulldozer	\$ 20.10	0.00
TRUCK DRIVER: Dump Truck	\$ 13.12 **	0.00

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

** Workers in this classification may be entitled to a higher minimum wage under Executive Order 14026 (\$17.75) or 13658 (\$13.30). Please see the Note at the top of the wage determination for more information. Please also note that the minimum wage requirements of Executive Order 14026 are not currently being enforced as to any contract or subcontract to which the states of Texas, Louisiana, or Mississippi, including their agencies, are a party.

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide

employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at

https://www.dol.gov/agencies/whd/government-contracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (iii)).

The body of each wage determination lists the classifications and wage rates that have been found to be prevailing for the type(s) of construction and geographic area covered by the wage determination. The classifications are listed in alphabetical order under rate identifiers indicating whether the particular rate is a union rate (current union negotiated rate), a survey rate, a weighted union average rate, a state adopted rate, or a supplemental classification rate.

Union Rate Identifiers

A four-letter identifier beginning with characters other than ""SU"", ""UAVG"", ?SA?, or ?SC? denotes that a union rate was prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2024. PLUM is an identifier of the union whose collectively bargained rate prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2024 in the example, is the effective date of the most current negotiated rate.

Union prevailing wage rates are updated to reflect all changes over time that are reported to WHD in the rates in the collective bargaining agreement (CBA) governing the classification.

Union Average Rate Identifiers

The UAVG identifier indicates that no single rate prevailed for those classifications, but that 100% of the data reported for the classifications reflected union rates. EXAMPLE: UAVG-OH-0010 01/01/2024. UAVG indicates that the rate is a weighted union average rate. OH indicates the State of Ohio. The next number, 0010 in the example, is an internal number used in producing the wage determination. The date, 01/01/2024 in the example, indicates the date the wage determination was updated to reflect the most current union average rate.

A UAVG rate will be updated once a year, usually in January, to reflect a weighted average of the current rates in the collective bargaining agreements on which the rate is based.

Survey Rate Identifiers

The ""SU"" identifier indicates that either a single non-union rate prevailed (as defined in 29 CFR 1.2) for this classification in the survey or that the rate was derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As a weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SUFL2022-007 6/27/2024. SU indicates the rate is a single non-union prevailing rate or a weighted average of survey data for that classification. FL indicates the State of Florida. 2022 is the year of the survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 6/27/2024 in the example, indicates the survey completion date for the classifications and rates under that identifier.

?SU? wage rates typically remain in effect until a new survey is conducted. However, the Wage and Hour Division (WHD) has the discretion to update such rates under 29 CFR 1.6(c)(1).

State Adopted Rate Identifiers

The ""SA"" identifier indicates that the classifications and prevailing wage rates set by a state (or local) government were adopted under 29 C.F.R 1.3(g)-(h). Example: SAME2023-007 01/03/2024. SA reflects that the rates are state adopted. ME refers to the State of Maine. 2023 is the year during which the state completed the survey on which the listed classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 01/03/2024 in the example, reflects the date on which the classifications and rates under the ?SA? identifier took effect under state law in the state from which the rates were adopted.

WAGE DETERMINATION APPEALS PROCESS

- 1) Has there been an initial decision in the matter? This can be:
 - a) a survey underlying a wage determination
 - b) an existing published wage determination
- c) an initial WHD letter setting forth a position on a wage determination matter
- d) an initial conformance (additional classification and rate) determination

On survey related matters, initial contact, including requests for summaries of surveys, should be directed to the WHD Branch of Wage Surveys. Requests can be submitted via email to davisbaconinfo@dol.gov or by mail to:

Branch of Wage Surveys
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

Regarding any other wage determination matter such as conformance decisions, requests for initial decisions should be directed to the WHD Branch of Construction Wage Determinations. Requests can be submitted via email to BCWD-Office@dol.gov or by mail to:

Branch of Construction Wage Determinations Wage and Hour Division U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

2) If an initial decision has been issued, then any interested party (those affected by the action) that disagrees with the decision can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Requests for review and reconsideration can be submitted via email to dba.reconsideration@dol.gov or by mail to:

Wage and Hour Administrator U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and any information (wage payment

data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210.

END OF GENERAL DECISION"

Document D BID

Proposal of	(hereinafter	called	"Bidder")
organized and existing under the laws of the State of			
doing business as*. To the	e El Dorado Ru	ıral Pub	olic Water
Authority (hereinafter called "Owner").			
In compliance with your Advertisement for Bids, Bidder her	eby proposes to	perforn	n all Work
for the construction of the Wastewater System Improvement	ents: Contract	I—Par	nell Road
Sewer Force Main Extension and Valves for Master Me	eters in strict ac	cordanc	e with the
Contract Documents, within the time set forth therein, and at the	he prices stated l	pelow.	
The Contractor's Act of Assurance Form must be incluDBE/MBE/WBE Compliance Evaluation Forms must be sconfirmed.			
By submission of this Bid, each Bidder certifies, and in the ca	se of a joint Bid	each pa	arty thereto
certifies as to its own organization, that this Bid has been	arrived at inde	pendentl	y, withou
consultation, communication, or agreement as to any matter Bidder or with any competitor.	relating to this	Bid with	any other
Bidder hereby agrees to commence Work under this contract	on or before a d	late to b	e specified
in the Notice to Proceed and to fully complete the Project wit	thin 120 consecu	itive cal	endar days
thereafter. Bidder further agrees to pay as liquidated dama	ges, the sum of	\$500.0	0 for each
consecutive calendar day thereafter as provided in the Supplen	nental Condition	is.	
Bidder acknowledges receipt of the following Addendum:			

^{*} Insert "a corporation", "a partnership", or "an individual" as applicable.

BID SCHEDULE

BIDDER agrees to perform all the work described in the CONTRACT DOCUMENTS for the following unit prices or lump sums:

NOTE: Bids shall include sales tax and all other applicable taxes & fees.

Item No.	Item Description	Est Qty	Unit	Unit Price	Total Amount
	4" Sewer Force Main - class 160 PVC or SDR				
	-11 HDPE - Including trench, backfill and 10				
1	gauge tracing wire and risers	2,950	LF		
			Dallana (ć \	ć
			_ Dollars (\$)	\$
	3" Sewer Force Main - class 160 PVC or SDR				
	-11 HDPE - Including trench, backfill and 10				
2	gauge tracing wire and risers	10	LF		
			Dollars (\$)	\$
	4.4/4// Causan Faura Marin, Calcadula 40 DVC				
	1-1/4" Sewer Force Main - Schedule 40 PVC -				
3	Including trench, backfill and 10 gauge tracing wire and risers	3,135	LF		
3	tracing wire and risers	3,133	Li		
			Dollars(\$)	\$
	4" Uncased Bore - pay quantity for bore				
4	equal to pavement width plus 10'	145	LF		
			Dollars /	\$)	\$
			_ Dollars (۶)	۶
	1-1/4" Uncased Bore - pay quantity for				
5	bore equal to pavement width plus 10'	300	LF		
			Dollars (\$)	\$
	C" MI Cata Value and Day w/ Magalug				
	6" MJ Gate Valve and Box, w/ MegaLug restraints & concrete valve box ring,				
6	complete in place	2	EA		
	Para Para				
			_ Dollars(\$)	\$
	4" MJ Gate Valve and Box, w/ MegaLug				
	restraints & concrete valve box ring,				
7	complete in place	3	EA		
			Dollars (\$)	\$
			Dollars (٧)	₹

EL DORADO RURAL PUBLIC WATER AUTHORITY PARNELL ROAD SEWER EXTENSION

Item No.	Item Description	Est Qty	Unit	Unit Price	Total Amount
8	3" MJ Gate Valve and Box, w/ MegaLug restraints & concrete valve box ring, complete in place	2	EA		
			Dollars (\$	5)	\$
	Grinder Pump Station, complete in place. Including, but not limited to pumps, vault, piping, valves, electrical, controls w/ time clock, alarms, lateral kit and spare parts as specified in Section 11304 and as shown on the contract drawings, 50' of Sch 40 PVC service line, 50' of control wiring, and				
9	gravity service line clean-out	5	EA		
			Dollars (\$	5)	\$
10	1-1/4" Corp Stop and Saddle, complete in place	5	EA		
			Dollars (\$	5)	\$
11	1-1/4" Check Valve, complete in place	5	EA		
			Dollars (\$	5)	\$
12	Pump out existing septic tank and backfill with sand	5	EA		
			Dollars (\$	5)	\$
13	4" & 6" PVC service line (beyond the 50' included in Base Bid for individual pump station)	100	LF		
			Dollars (\$)	\$
14	Electrical control cable extension (50' included in Base Bid for individual pump	100		·	
14	station)	100	LF		
			Dollars (\$	5)	\$
15	Asphalt and concrete road repair, complete in place	50	SY		
			Dollars (\$	S)	\$

EL DORADO RURAL PUBLIC WATER AUTHORITY PARNELL ROAD SEWER EXTENSION

Item No.	Item Description	Est Qty	Unit	Unit Price	Total Amount
16	Connection to City sewer force main, complete in place. Including, but not limited to flow meter assy, gate valve and box, and quickconnect assy for bypass with meter box.	1	EA		
10		-			
			Dollars	(\$)	\$
17	Wet Connection, Complete in Place	1	LS		
			Dollars	(\$)	\$
	Mahilination musicatains and				
18	Mobilization, project sign and miscellaneous	1	LS		
			Dollars	(\$)	\$
	Trench Safety as required by OSHA (29 CFR, Part 1926, Subpart P) Contractor's Certification of Compliance will be required			,	Y
19	for each payment under this item.	1	LS		
			Dollars	(\$)	\$
20	Pipe Identification Tape	6,095	LF		
			Dollars	(\$)	\$
21	Storm Water Pollution Prevention, Install and Maintain During Construction	1	LS		
			Dollars	(\$)	\$
				Total Bid Amount	: \$
This bid	is based on pump and panel supplies b	ov			
11115 010	is oused on pump and paner supplies t	J	(Li	st manufacturer)

Respectfully submitted:	
Signature	Address
Title	Date
License Number (if applicable)	

SEAL - (if BID is by a Corporation)

Document E BID BOND

Know	all	men	by	these	presents,	that	we,	the	under	signed,
								, as	Princip	al, and
					a	s Surety	, are he	ereby he	ld and	firmly
bound u	nto the	El Dora	ado Ru	ral Publi	c Water Au	thority,	as Own	er in the	penal s	sum of
							for	the payn	nent of	which,
well and	d truly	to be ma	ade, we	hereby j	jointly and s	everally	bind ou	selves, s	successo	ors and
assigns.										
Signed,	this			day o	f			, 20 _		The
Conditio	on of t	he above	e obliga	ation is	such that w	nereas th	e Princ	ipal has	submit	tted to
					:	a certain	Bid, atta	ched her	eto and	hereby
made a	part l	nereof to	enter	into a	contract in	writing,	for the	Wastev	vater S	System
Improv	ements:	Contra	ct I—P	arnell R	oad Sewer H	orce Ma	in Exte	ension a	nd Valv	ves for
Master	Meters									
Now, the	erefore.									

- (a) If said Bid shall be rejected, or
- (b) If said Bid shall be accepted and the Principal shall execute and deliver a contract in the Form of Contract attachment hereto (properly completed in accordance with said Bid) and shall furnish a Bond for faithful performance of said contract, and for the payment of all persons performing labor furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said Bid, then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its Bond shall be in no way impaired or affected by any extension of the time within which the Owner may accept such Bid; and said Surety does hereby waive notice of any such extension.

In witness whereof, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

	Principal	
	Surety	
	•	
)		

Important - Surety companies executing Bonds must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized in accordance with Section 16 of the Supplemental General Conditions to transact business in the State of Arkansas.

Document F CONTRACTOR'S ACT OF ASSURANCE FORM

As the authorized agent of the individual, incorporation, or corporation (hereinafter referred to as the Contractor) bidding on or participating in a Revolving Loan Fund (RLF) financed project, I certify that I have read and understand the requirements of the RLF Supplemental General Conditions, and that the principles, agents and employees of the Contractor will comply with these requirements, including all relevant statutes and regulations issued pursuant thereto. As the authorized agent of the Contractor, I further certify that:

DBE/MBE/WBE During the bid process, and throughout the performance of the Contract, whenever subcontracts are to be awarded, I will take the six affirmative steps described in the RLF Supplemental General Conditions to use Disadvantaged, Minority and Women's Business (DBE/MBE/WBE) firms wherever possible. I will document to the borrower and the Arkansas Natural Resources Commission all efforts to secure DBE/MBE/WBE participation, including follow-up efforts, and will report to the Owner the dollar value of all DBE/MBE/WBE contracts and subcontracts awarded.

AMERICAN IRON AND STEEL I will comply with the statutory requirements commonly known as "American Iron and Steel;" that requires all of the iron and steel products used in the project to be produced in the United States pursuant to this contract and the RLF Supplemental General Conditions. I understand that all of the iron and steel products used in the project will be and/or have been produced in the United States in a manner that complies with the American Iron and Steel Requirement, unless a waiver of the requirement is approved, and I will provide any further verified information, certification or assurance of compliance with this paragraph, or information necessary to support a waiver of the American Iron and Steel Requirement as detailed in the RLF Supplemental General Conditions.

EQUAL OPPORTUNITY I will comply with all requirements of 41 CFR Chapter 60 and Executive Orders 11246 and 11375, including inclusion of all required equal opportunity clauses in each subcontract awarded in excess of \$10,000, and will furnish a similar statement from each proposed subcontractor, when appropriate. I will also comply with all Equal Employment Opportunity requirements as defined by Section 504 of the Rehabilitation Act of 1973; the Age Discrimination Act of 1975; and Section 13 of the Federal Water Pollution Control Act Amendments of 1972 regarding sex discrimination.

NONSEGREGATED FACILITIES The Contractor that I represent does not and will not maintain any facilities provided for its employees in a segregated manner, or permit its employees to perform their services at any location under the Contractor's control where segregated facilities are maintained. I will also obtain a similar certification from each subcontractor prior to the award of any subcontract exceeding \$10,000 to said subcontractor, which is not exempt from the equal opportunity clause.

LABOR STANDARDS I will comply with the Labor Standards Provisions contained in Davis—Bacon wage rates specific to this contract and the RLF Supplemental General Conditions. I understand that the aggregate wage rates paid to any employees must equal or exceed the sum total of the base rate plus any listed fringe rate. I will furnish weekly payrolls and certifications as may be required by the Owner to affirm compliance. I will also require that weekly payrolls be submitted to the Owner for all Subcontracts.

OSHA REQUIREMENTS I will comply with the Department of Labor Occupational Safety and Health Administration (OSHA) Regulations promulgated under Section 107 of the Contract Work Hours and Safety Standard Act (40 U.S.C. 327-333) in performance of the contract.

PROCUREMENT PROHIBITIONS In compliance with Executive Order 11738, Section 306 of the Clean Air Act and Section 508 of the Clean Water Act, I certify that I will not procure goods and services from persons who have been convicted of violations of either law, if the facility that gave rise to said violations produces said goods or services.

PRESERVATION OF OPEN COMPETITION In accordance with Executive Order 13202 and its amendments, I certify that I have not discriminated against my employees or any subcontractor based upon labor affiliation or lack thereof.

RESPONSIBILITIES OF PARTICIPANTS REGARDING TRANSACTIONS (A.K.A. DEBARMENT AND SUSPENSION) I certify that I shall fully comply with Subpart C of 40 CFR Part 32, entitled "Responsibilities of Participants Regarding Transactions." I am responsible for ensuring that any lower tier covered transaction, as described in Subpart B of 40 CFR Part 32, entitled "Covered Transactions," includes a term or condition requiring compliance with Subpart C. I am responsible for further requiring the inclusion of a similar term or condition in any subsequent lower tier covered transactions. I acknowledge that failing to disclose the information required under 40 CFR 32.335 may result in the delay or negation of this assistance agreement, or pursuance of legal remedies, including suspension and debarment. I further acknowledge that I may access the Excluded Parties List System at http://www.epls.gov. This term and condition supersede EPA Form 5700-49, "Certification Regarding Debarment, Suspension, and Other Responsibility Matters."

PROHIBITION ON CERTAIN TELECOMMUNICATION AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT I will comply with regulations at 2 CFR 200.216, designated as the "Prohibition on certain telecommunication and video surveillance services or equipment", implementing section 889 of Public Law 115-232 and repeated in the RLF Supplemental General Conditions. The regulation prohibits the use of federal funds to procure, enter into, extend, or renew contracts, or obtain equipment, systems, or services that use "covered telecommunications equipment or services" identified in the regulation as a substantial or essential component of any system, or as critical technology as part of any system. I understand that all products used in this contract will meet this requirement and that I will provide further verified information, certification or assurance of compliance with this paragraph, or information necessary to this prohibition as detailed in the RLF Supplemental General Conditions.

I understand that a false statement on this certification regarding any of the above certifications may subject the Contractor or Subcontractor to civil or criminal prosecution. I further certify that I will obtain a similar certification for each subcontract awarded.

ΑU	TΗ	OR.	IZEI	\mathbf{A}	GENT	[
----	----	-----	------	--------------	------	---

CONTRACTOR NAME:	ARKANSAS LICENSE NO.		
SIGNATURE:	DATE:		
PRINTED NAME:	TITLE:		

1.

Document G DBE/MBE/WBE COMPLIANCE EVALUATION FORM SUPPLEMENTAL CONDITIONS OF THE REVOLVING LOAN FUND (Bid Package Documentation)

Bidders are to complete this form and submit within fifteen days after the bid opening. A condition for remaining in competition for award is the satisfactory completion of this form. undersigned submits the following data with respect to the firm's efforts to meet the Arkansas Natural Resources Commission's goal for DBE/MBE/WBE participation. If you have any questions please contact Mr. Keith Sanders, Environmental Program Manager at (501) 682-0554 or email keith.sanders@arkansas.gov.

Prime Contractors that are DBE firms are not exempt from conducting the "good faith efforts" as described in 40 CFR Part 33, Subpart C- Good Faith Efforts.

Subcontracting is to be defined as subcontracts for construction, supplies, equipment and services. It is very infrequent that a Prime Contractor can do the job without hiring for construction, equipment, supplies, and services. If Prime Contractor does sub-contract/procure for any of the categories mentioned above, the Prime Contractor must indicate that on this form.

1.		ewater System Improvemen and Valves for Master Met	ts: Contract I: Parnell Road Sewer ers
2.	Name of General Contr	actor:	
3.	DBE/MBE/WBE Firm:	(Name) (Con	nplete a separate form for each BE to be used as a subcontractor)
		(Address)	(City, State, Zip Code)
		(Phone Number)	(Fax Number)
4.	Describe Work to be p subcontract.	erformed by the DBE/MBE/	WBE, provide dollar amount of the

DOCUMENTATION OF AFFIRMATIVE STEPS TAKEN TO OBTAIN DBE/MBE/WBE PARTICIPATION

5.	Documentation that DBE/MBE/WBE quotes were solicited through direct communication and documentation of responses received (Direct communication includes: faxes, phone calls, letters, e-mails). Newspaper ads/public notice ads alone will not be considered sufficient to meet the good faith effort requirements. The omission of a newspaper advertisement/public notice is not grounds for the bid to be rejected as well.
6.	What sources were used to identify potential DBE/MBE/WBE firms. (Arkansas Highway
	and Transportation Department; Arkansas Economic Development Commission's Minority Business Development Division; U.S. Small Business Administration; other sources, please specify and provide documentation). ANRC recommends using the sources above.
7.	Describe steps taken to divide work items into small tasks in an effort to maximize DBE/MBE/WBE participation.
8.	List reasons for rejecting a DBE/MBE/WBE that indicated a desire to participate and/or submitted bids.
the f	undersigned hereby certified, having provided responses or documentation to the questions in oregoing affirmative steps taken to obtain DBE/MBE/WBE participation, that they are true correct to the best of her/her knowledge, information and belief.
Nam	e of General Contractor:
Sign	ature:
Title	/Date:

Document H AGREEMENT

This Agreeme	ent, made this	day of	, 20	, by and		
	l Dorado Rural Public Wate					
called "Owner	r" and	doing busing	ness as (an individua	al,) or (a		
partnership,) o	or (a corporation) hereinafter ca	alled "Contractor".				
Withnesseth:	That for and in considerat	ion of the payments a	and agreements here	ein after		
mentioned:						
1.	The Contractor will commend	•				
	System Improvements: Contract I: Parnell Road Sewer Force Main Extens					
	and Valves for Master Mete	ers.				
2.	The Contractor will furnish a	ll of the materials, supp	olies, tools, equipme	ent, labor		
	and other services necessary for the construction and completion of the Project					
	described herein.					
3.	The Contractor will comme	nce the work required	by the Contract Do	ocuments		
	within 10 calendar days after	the date of the Notice t	o Proceed and will o	complete		
	the same within 120 calenda	lendar days unless the period for completion is extended				
	otherwise by the Contract Do	cuments.				
4.	The Contractor agrees to pe	erform all of the Worl	k described in the	Contract		
	Documents and comply with	the terms therein for the	e sum of \$	or		
	as shown in the Bid schedule.					
5.	The term "Contract Documen	ts" means and includes	the following:			
	(A) Advertisement for Bio		C			
	(B) Information for Bidde	rs				
	(C) Davis-Bacon Wage D	etermination(s)				
	(D) Bid					
	(E) Bid Bond					

- (F) Agreement
- (G) General Conditions (if applicable)
- (H) Revolving Loan Fund (RLF) Supplemental General Conditions
- (I) Supplemental Conditions
- (J) Payment Bond
- (K) Performance Bond
- (L) Notice of Award
- (M) Notice to Proceed
- (N) Contractor's Act of Assurance
- (O) DBE/MBE/WBE Certification
- (P) Insurance
- (Q) Certificate of Owner's Attorney
- (R) Change Order
- (S) Drawings prepared by **Gaunt Engineers, Inc.** numbered **1** through **12**, and dated **August 2024, Rev. February 2025**.
- (T) Specifications prepared or issued by **Gaunt Engineers**, **Inc.**, dated **January 2024**, **Rev. March 2025**.

(U)	Addenda:	

No.	dated	, 20
No.	dated	, 20

- 6. The Owner will pay to the Contractor in the manner and at such times as set forth in the Supplemental Conditions such amounts as required by the Contract Documents.
- 7. This Agreement shall be binding upon all parties hereto and their respective heirs, executors, administrators, successors, and assigns.

8. This contract shall not be effective unless and until approved by the Natural Resources Division, a Division of the Arkansas Department of Agriculture.

In witness whereof, the parties hereto have executed or caused to be executed by their duly authorized official, this Agreement in **five** (5) copies each of which shall be shall be deemed an original on the date first above written.

	Owner	El Dorado Rural PWA
(Seal)		Entity
Attest:		By:
Witness		
(Name typed)		(Name typed)
Title		President Title
(Seal)	Contractor	
Attest:		_By:
Witness		
(Name typed)		(Name typed)
Title		Address
Title		
		Employee Identification Number

Document I PAYMENT BOND

Know All Persons By These Presents: that
(Name of Contractor)
(Address of Contractor)
a, hereinafter called
(Corporation, Partnership, or Individual)
Principal and(Name of Surety)
hereinafter called Surety, are held and firmly bound unto the El Dorado Rural Public Water
Authority, 3256 W. Hillsboro, El Dorado, AR 71730 hereinafter called Owner and unto a
persons, firms and corporations who or which may furnish labor, or who furnish materials t
perform as described under the contract and to their successors and assigns in the total aggregat
penal sum of Dollars (
) in lawful money of the United States, for the payment of
which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators
successors, and assigns, jointly and severally, firmly by these presents.
The Condition of This Obligation is such that whereas, the Principal entered into a certain
contract with the Owner dated the day
of 20, a copy of which is hereto attached and made a part hereof for the construction of
Wastewater System Improvements: Contract I: Parnell Road Sewer Force Main Extensio
and Valves for Master Meters

Now, therefore, if the Principal shall promptly make payment to all persons, firms, and corporations furnishing materials for or performing labor in the prosecution of the Work provided for in such contract, and any authorized extensions or modification thereof, including

all amounts due for materials, lubricants, oil, gasoline, coal and coke, repairs on machinery, equipment and tools, consumed or used in connection with the construction of such Work, and for all labor cost incurred in such Work including that by a Subcontractor, and to any mechanic or materialman lienholder whether it acquires its lien by operation of State or Federal law; then this obligation shall be void, otherwise to remain in full force and effect.

Provided, that beneficiaries or claimants hereunder shall be limited to the Subcontractors, and persons, firms and corporations having a direct contract with the Principal or its Subcontractors.

Provided, further, that the said Surety for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the Work to be performed thereunder or the Specifications accompanying the same shall in any way affect its obligation on this Bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of this contract or to the Work or to the Specifications.

Provided, further, that no suit or action shall be commenced hereunder by any claimant: (a) Unless claimant, other than one having a direct contract with the Principal, shall have given written notice to any two of the following: The Principal, the Owner or the Surety above named within ninety days after such claimant did or performed the last of the work or labor, or furnished the last of the materials for which said claim is made, stating with substantial accuracy the amount claimed and the name of the party to whom the materials were furnished, or for whom the work or labor was done or performed. Such notice shall be served by mailing the same by registered mail or certified mail, postage prepaid, in an envelope addressed to the Principal, Surety, at any place where an office is regularly maintained for the transaction of business, or served in any manner in which legal process may be served in the State in which the aforesaid project is located, save that such service need not be made by a public officer. (b) After the expiration of one (1) year following the date of which Principal ceased work on said Contract, is

being understood, however, that if any limitation embodied in the Bond is prohibited by any law controlling the construction hereof, such limitation shall be deemed to be amended so as to be equal to the minimum period of limitation permitted by such law.

Provided, further, that it is expressly agreed that this Bond shall be deemed amended automatically and immediately, without formal and separate amendments hereto, upon amendment to the Contract not increasing the contract price more than twenty percent, so as to bind the Principal and the Surety to the full and faithful performance of the Contract as so amended. The term "Amendment", whenever used in this Bond and whether referring to this Bond, the contract or the loan Documents shall include any alteration, addition, extension or modification of any character whatsoever.

Provided, further, that no final settlement between the Owner and the Contractor shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

of which shall be deemed an original, the	is the		day of
20			
(Corp. Seal)	Contractor	Principa	al
Attest: Witness as to Principal (If Corp. then Corp. Sec.)	_	By: (If Corp then	CEO)
Address	-	Address	S
	Surety		
Attest: Witness as to Surety	_	By: Attorney-in	-Fact
Address	_	Address	S

Note: Date of Bond must not be prior to date of Contract.

If Contractor is partnership, all partners should execute Bond.

Important: Surety companies executing Bonds must appear on the Treasury Department's most current list (Circular 570 as amended) and be in accordance with Section 16 of the RLF Supplemental General Conditions and be authorized to transact business in the State of Arkansas.

Document J PERFORMANCE BOND

Know All Persons By These Presents: that
(Name of Contractor)
(Address of Contractor)
a, hereinafter called
(Corporation, partnership, or Individual)
Principal, and(Name of Surety)
(Address of Surety)
hereinafter called Surety, are held and firmly bound unto the El Dorado Rural Public Water
Authority, 3256 W. Hillsboro, El Dorado, AR 71730 hereinafter called Owner in the total
aggregate penal sum of Dollars (\$
) in lawful money of the United States, for the payment of which sum
well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors,
and assigns, jointly and severally, firmly by these presents.
The condition of this obligation is such that whereas, the Principal entered into a certain contract
with the Owner dated the day of 20, a copy of which is hereto
attached and made a part hereof for the construction of:
Wastewater System Improvements: Contract I: Parnell Road Sewer Force Main Extension
and Valves for Master Meters

Now, therefore, if the Principal shall well, truly and faithfully perform its duties, all the undertakings, covenants, terms, conditions, and agreements of said contract during the original term thereof, and any extensions thereof which may be granted by the Owner with or without

notice to the Surety and during the one year guaranty period and if the Principal shall satisfy all claims and demands incurred under such contract, and shall fully indemnify and save harmless the Owner from all costs and damages which it may suffer by reason of failure to do so, and shall reimburse and repay the Owner all outlay and expense which the Owner may incur in making good any default, then this obligation shall be void, otherwise to remain in full force and effect.

Provided, further, that the said Surety, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to Work to be performed thereunder or the Specifications accompanying same shall in any way affect its obligation on this Bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the Work or to the Specifications.

Provided, further, that it is expressly agreed that the Bond shall be deemed amended automatically and immediately, without formal and separate amendments hereto, upon amendment to the Contract not increasing the contract price more than twenty percent, so as to bind the Principal and the Surety to the full and faithful performance of the Contract as so amended. The term "Amendment", wherever used in this Bond, and whether referring to this Bond, the Contract or the Loan Documents shall include any alteration, addition, extension, or modification of any character whatsoever.

Provided, further, that no final settlement between the Owner and the Principal shall abridge the right of the other beneficiary hereunder, whose claim may be unsatisfied. The Owner is the only beneficiary hereunder.

In Witness Whereof, this instrument is e	executed in five	e (5) counterparts, each one of which shall
be deemed an original, this the	day of _	20
(Corp. Seal)	Contractor	Principal
Attest:		By:
Witness as to Principal (If Corp. then Corp. Sec.)		(If Corp then CEO)
Address		Address
	Surety	
Attest:	_	By:
Witness as to Surety		Attorney-in-Fact
Address	_	Address

Note: Date of Bond must not be prior to date of Contract.

If Contractor is partnership, all partners should execute Bond.

Important: Surety companies executing Bonds must appear on the Treasury Department's most current list (Circular 570 as amended) and be in accordance with Section 16 of the RLF Supplemental General Conditions and be authorized to transact business in the State of Arkansas.

Document K Insurance

(Insert Insurance package here)

Document L NOTICE OF AWARD

To:	
Project Description: Wastewater Syste Force Main Extension and Valves for	— em Improvements: Contract I: Parnell Road Sewer Master Meters
The Owner considered the Bid	d submitted by you for the above-described Work in
response to its Advertisement for Bid	ds, dated, 20 and
Information for Bidders.	
You are hereby notified that you	our Bid has been accepted for items in the amount of
	ation for Bidders to execute the Agreement and furnish

the required Contractor's Performance Bond, Payment Bond and certificates of insurance within ten calendar days from the date of this Notice to you.

If you fail to execute said Agreement and to furnish said Bonds within ten (10) days from the date of this Notice, said Owner will be entitled to consider all your rights arising out of the Owner's acceptance of your Bid as abandoned and as a forfeiture of your Bid Bond. The Owner will be entitled to such other rights as may be granted by law.

You are requir	ed to return an acknowl	edged copy of this Notice of Award to the Owne	r.
Dated this	day of	, 20	
		El Dorado Rural Public Water Authori Owner	ty
		By	
		Title President	
	Accepta	nce of Notice	
Receipt of the	above Notice of Award	is hereby acknowledged by	
this the	day of	20	
Ву			
Title			

Document M NOTICE TO PROCEED

To:	Date:		
	_ Project: Wastewater System Improvements		
	Meters		
You are hereby notified to commence	Work in accordance with the Agreement dated		
, 20, on or	before, 20		
and you are to complete the Work within	consecutive calendar days thereafter. The		
date of completion of all Work is therefore	, 20		
	El Dorado Rural Public Water Authority Owner		
	Ву		
	Title President		
Acceptance of Notice			
Receipt of the above Notice to Proceed			
is hereby acknowledged by			
this the, 20			
Ву			
Title			
Employer Identification Number			

Document N CERTIFICATE OF OWNER'S ATTORNEY

I,	the	undersigned,,	the	duly
au	thorize	zed and acting legal representative of the El Dorado Rural Public Water A	ıthori	ty, do
he	reby c	certify as follows:		
Ιh	ave ex	examined the attached contract(s), insurance, and performance and payment be	ond(s),	and I
am	of the	ne opinion that each of the aforesaid agreements, once validly executed, consti	tutes a	ı valid
an	d lega	ally binding obligation upon the parties executing the same in accordance	with t	terms,
co	nditio	ons, and provisions thereof.		
		Name:		
		Date		

Recipient Name: El Dorado Rural Public Water Authority Project Name: Wastewater System Improvements

SRF Non-Equivalency – Bid Documents **SRF Supplemental General Conditions** Project EnABLE No.: 23-203 Revision 00

State Revolving Fund (SRF) Non-Equivalency **Supplemental General Conditions**

- **Project Funding** 1.
- 2. Supersession
- 3. **Definitions**
- 4. Additional Instructions & Detail Drawings
- 5. **Drawings & Specifications**
- 6. Land & Rights-of-Way
- 7. **Bidding and Contract Award**
- American Iron and Steel (AIS) 8.
- 9. Reserved for SRF Equivalency Program Use
- Reserved for SRF Equivalency Program Use 10.
- 11. **Equal Employment Opportunity Clause**
- 12. **Labor Standards**
- 13. Responsibilities of Participants Regarding Transactions (A.K.A. Debarment and Suspension)
- 14. **Procurement Prohibitions**
- 15. Substitutions
- 16. Insurance
- 17. **Contract Security**
- 18. Assignments
- 19. Indemnification
- 20. **Separate Contracts**
- 21. Subcontracting
- 22. **Pre-Construction Conference**
- 23. Schedules, Reports & Records
- 24. Job Bulletin Board
- 25. **Shop Drawings**
- 26. Materials, Services & Facilities
- Safety Standards 27.
- 28. **Protection of Lives and Property**
- 29. Protection of Work, Property, and Persons

- 30. Protection of the Environment
- 31. Archeological, Historical, and Cultural Remains
- 32. **Storm Water Permit Requirements**
- Engineer's Authority 33.
- Owner's Protection from Contractor's 34. Actions
- 35. **Inspection & Testing**
- 36. Supervision by Contractor
- 37. Payment to Contractor
- 38. Acceptance of Final Payment as Release
- 39. Cleanup and Corrections
- 40. Taxes
- 41. **State Tax Exemption**
- 42. **Operation and Maintenance Manual**
- 43. Changes in the Work
- 44. **Subsurface Conditions**
- 45. Correction of Work
- 46. Surveys, Permits, Regulations
- 47. Time for Completion & Liquidated Damages
- 48. Suspension of Work, Termination, & Delay
- 49. **As-Built Drawings**
- 50. Guarantee
- 51. **Patents**
- 52. Conflicts of Interest
- 53. Arbitration by Mutual Agreement
- 54. Gratuities
- 55. Prohibition on Telecommunication and Video Surveillance Services or Equipment

Appendix A Labor Standards Provisions, Attachments 1 & 2

Appendix B Equal Employment Opportunity Provisions, Title 41, Chapter 60

Appendix C 40 CFR Part 33 Subpart C: Good Faith Efforts

Memo: Implementation of American Iron and Steel (AIS) Appendix D.

Reserved for Use with SRF Equivalency Program Appendix E

Appendix F. Memo: Prohibition on Certain Telecommunication and Video Surveillance Services or

Equipment in the SRF Programs

Recipient Name: El Dorado Rural Public Water Authority Proiect Name: Wastewater System Improvements

SRF Non-Equivalency - Bid Documents **SRF Supplemental General Conditions** Project EnABLE No.: 23-203 Revision 00

PROJECT FUNDING 1.

These State Revolving Fund (SRF) Supplemental General Conditions for Non-Equivalency projects are based on detailed, specific guidance provided by the United States Environmental Protection Agency (US EPA).

In accordance with Title XV and XVI, the Arkansas Natural Resources Commission (Commission), the Arkansas Department of Agriculture's Natural Resources Division, and the Arkansas Development Finance Authority (ADFA) are not partners, joint ventures, or in any way party to the construction contract. The Recipient and its Contractors shall release and hold harmless the officers and employees of the Commission and ADFA from claims arising in connection with the design, construction and operation of the project including any matter due solely to the Contractor or Borrowers negligence.

2. **SUPERSESSION**

The SRF Supplemental General Conditions for Non-Equivalency projects supersede any conflicting provisions of the Contract Documents.

3. **DEFINITIONS**

Wherever used in the Contract Documents, the following terms shall have the meanings indicated and shall be applicable to both the singular and plural thereof:

- A. Addenda Written or graphic instruments issued prior to the execution of the Agreement which modify or interpret the Contract Documents, Drawings and Specifications, by additions, deletions, clarifications, or corrections.
- B. Bid The offer or proposal of the Bidder submitted on the prescribed form setting forth the prices for the Work to be performed.
- C. **Bidder** Any person, firm or corporation submitting a Bid for the Work.
- D. Bonds Bid, Performance, and Payment Bonds and other instruments of surety, furnished by the Contractor and the Contractor's surety in accordance with the Contract Documents.
- E. Change Order A written order to the Contractor authorizing an addition, deletion, or revision in the Work within the general scope of the Contract Documents or authorizing an adjustment in the Contract Price or Contract Time.
- F. **Commission** The Arkansas Natural Resources Commission.
- G. Contract Documents The contract, including Advertisement for Bids, Information for Bidders, Davis-Bacon Wage Determination, Bid Form, Bid Bond, Contractor's Act of Assurance, Agreement, Payment Bond, Performance Bond, Insurance, Notice of Award, Notice to Proceed, Certificate of Owner's Attorney, Change Order, Drawings, Specifications, General Conditions, SRF Supplemental General Conditions, and Addenda.
- H. Contract Price The total monies payable to the Contractor under the terms and conditions of the Contract Documents.
- I. Contract Time The number of calendar days stated in the Contract Documents for the completion of the Work.
- J. Contractor The person, firm or corporation with whom the Owner has executed the Agreement.
- K. Drawings The parts of the Contract Documents, which show the characteristics, and scope of the Work to be performed and which have been prepared or approved by the Engineer.

Recipient Name: El Dorado Rural Public Water Authority SRF Non-Equivalency - Bid Documents **SRF Supplemental General Conditions** Proiect Name: Wastewater System Improvements Project EnABLE No.: 23-203

L. **Engineer** - The person, firm, or corporation named as such in the Contract Documents.

M. Field Order - A written order effecting a change in the Work not involving an adjustment in the Contract Price, an extension of the Contract Time, or a change affecting the overall integrity of the design of the project issued by the Engineer, not the Engineer's Resident Inspector, to the Contractor during construction.

Revision 00

- N. Notice of Award The written notice of the acceptance of the Bid from the Owner to the successful Bidder.
- O. Notice to Proceed Written communication issued by the Owner to the Contractor authorizing him/her to proceed with the Work and establishing the date for commencement of the Work.
- P. Owner A public or quasi-public body or authority, corporation, association, partnership, or an individual for whom the Work is to be performed.
- Q. Project The undertaking to be performed as provided in the Contract Documents.
- R. Resident Project Representative The authorized representative of the Owner who is assigned to the Project site or any part thereof.
- S. Shop Drawings All drawings, diagrams, illustrations, brochures, schedules and other data which are prepared by the Contractor, a Subcontractor, manufacturer, Supplier or distributor, which illustrates how specific portions of the Work shall be fabricated or installed.
- T. Specifications A part of the Contract Documents consisting of written descriptions of a technical nature of materials, equipment, construction systems, standards and workmanship.
- U. Subcontractor An individual, firm or corporation having a direct contract with the Contractor or with any other Subcontractor for the performance of a part of the Work at the site.
- V. Substantial Completion That date certified by the Engineer when the construction of the Project or a specified part thereof is sufficiently completed, in accordance with the Contract Documents, so that the Project or specified part can be utilized for the purposes for which it is intended.
- W. Additional SRF Supplemental General Conditions Modifications to SRF Supplemental General Conditions required by a State agency for participation in the Project and approved by the agency in writing prior to inclusion in the Contract Documents, or such requirements that may be imposed by applicable state laws.
- X. Supplier Any person or organization who supplies materials or equipment for the Work, including that fabricated to a special design, but who does not perform labor at the site.
- Y. Work All labor necessary to produce the construction required by the Contract Documents, and all materials and equipment incorporated or to be incorporated in the Project.
- Z. Written Notice Any notice to any party of the Agreement relative to any part of this Agreement in writing and considered delivered and the service thereof completed, when posted by certified or registered mail to the said party at their last given address or delivered in person to said party or their authorized representative on the Work.

4. ADDITIONAL INSTRUCTIONS AND DETAIL DRAWINGS

- A. The Contractor may be furnished additional instructions and detail drawings, by the Engineer, as necessary to carry out the Work required by the Contract Documents.
- B. The additional drawings and instructions thus supplied will become a part of the Contract Documents. The Contractor shall carry out the Work in accordance with the additional detailed drawings and instructions.

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5. **DRAWINGS AND SPECIFICATIONS**

A. The intent of the Drawings and Specifications is that the Contractor shall furnish all labor, materials, tools, equipment, and transportation necessary for the proper execution of the Work in accordance with the Contract Documents and all incidental work necessary to complete the Project in an acceptable manner, ready for use, occupancy, or operation by the Owner.

- B. In case of conflict between the Drawings and Specifications, the Specifications shall govern. Figure dimensions on Drawings shall govern over general Drawings.
- C. Any discrepancies found between the Drawings and Specifications and site conditions or any inconsistencies or ambiguities in the Drawings or Specifications shall be immediately reported to the Engineer, in writing, who shall promptly correct such inconsistencies or ambiguities in writing. Work done by the Contractor after discovery of such discrepancies, inconsistencies or ambiguities shall be done at the Contractor's risk.
- D. In the case of defective Specifications for which the Owner is responsible, the equitable adjustment shall include any increased cost the Contractor reasonably incurred in attempting to comply with those defective Specifications.

6. **LAND AND RIGHTS-OF-WAY**

- A. Prior to issuance of Notice to Proceed, the Owner shall obtain all land and rights-of-way necessary for carrying out and for the completion of the Work to be performed pursuant to the Contract Documents, unless otherwise mutually agreed.
- B. The Owner shall provide to the Contractor information which delineates and describes the lands owned and rights-of-way acquired.
- C. The Contractor shall provide at its own expense and without liability to the Owner any additional land and access thereto that the Contractor may desire for temporary construction facilities, or for storage of materials.

7. **BIDDING AND CONTRACT AWARD**

- A. Prospective Bidders are advised that other sections of these SRF Supplemental General Conditions describe requirements pertaining to bidding and the performance of the SRF funded contract. The SRF Supplemental General Conditions should be thoroughly reviewed by prospective Bidders prior to the preparation and submission of bids.
- B. Awards shall be made only to the lowest responsive, responsible Contractors possessing the ability to perform successfully under the terms and conditions of the proposed procurement. Bidders are required to comply with the requirements of these SRF Supplemental General Conditions in the preparation and submission of bids. Failure by the bidder to comply with the requirements outlined herein may result in the rejection of the bid as non-responsive.
- C. Bidders shall submit with the bid proposal an executed Contractor's Act of Assurance form as provided in these contract documents. Through execution of this form, the Bidder warrants its understanding of and compliance with these SRF Supplemental General Conditions and all relevant requirements pertaining to the SRF funded work. In addition, each prime Contractor is

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required to submit an executed Contractor's Act of Assurance form to the Owner for each subcontract awarded above \$2,000.00.

- D. The information described below shall be submitted to the Commission by the Owner for review and approval within thirty days of bid opening. Construction contracts will not be Awarded without Commission concurrence.
 - i. Proposal of the lowest responsive responsible Bidder.
 - ii. P.E. Certified Bid tabulation showing all bids and bid opening date.
 - iii. Recommendation of Award of contract by Engineer.
 - Clear Site Certificate without exceptions. iv.
 - ٧. Certified copies of the advertisements for bids.
 - Executed Contractor's Act of Assurance Form vi.
 - Bid bond for and name of Surety Company that will underwrite the Payment and vii. Performance Bonds for the lowest responsive responsible Bidder.
 - viii. Itemized bid breakdown of lump sum bid from lowest responsive responsible Bidder (if applicable).
 - Resume(s) of the proposed resident inspector(s) (if applicable). ix.
 - х. DBE/MBE/WBE documentation from lowest responsive responsible Bidder within fifteen days of bid opening (if applicable).

Please note that Item (x.) shall be submitted by the lowest responsive responsible Bidder to the Owner within fifteen days of bid opening for transmittal to the Commission (if applicable).

- E. If the Owner has not already enacted a written protest procedure to handle and resolve disputes relating to the award of contracts, the Owner will follow the process below upon receipt of a bid protest:
 - i. Bid protests may be filed by an "interested party." Prior to a bid submittal deadline, these persons include any party who declares an interest in the solicitation. Following the bid submittal deadline, interested parties include only bidders who submitted a bid or response to the solicitation.
 - ii. The written protest shall specify the reasons and facts upon which the protest is based; specific portions of the documents or statutes that form the basis of the protest; and the name, address, and telephone number of the party representing the Bidder.
 - iii. The protest must be filed in writing with the Owner at the address below:

Attn:					
		,AR			

- iv. The protest must be filed with the Owner before 5 p.m. and no later than five business days after the date of the Bid opening.
- Owner must disclose all bid protests to the Commission immediately. ٧.
- vi. Owner will investigate the basis for the bid protest and analyze the facts. Owner will notify Bidder whose bid is the subject of the bid protest of evidence presented in the bid protest

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> and evidence found as a result of the investigation, and, if deemed appropriate, afford Bidder an opportunity to rebut such evidence, and permit Bidder to present evidence that it should be allowed to perform the work. If deemed appropriate by Owner, an informal hearing will be held.

vii. Owner will issue a written decision within 15 days following receipt of the bid protest, unless factors beyond Owner's reasonable control prevent such a resolution, in which event such decision will be issued as expeditiously as circumstances reasonably permit. The decision will state the reasons for the action taken by Owner. A copy of the decision will be furnished to the protestor, the Commission, the Bidder whose bid is the subject of the bid protest, and all Bidders affected by the decision. A Bidder is affected by the decision on a bid protest if a decision on the protest could have resulted in the Bidder not being the lowest responsible and responsive Bidder for the contract.

8. **AMERICAN IRON AND STEEL (AIS)**

The Contractor acknowledges to and for the benefit of the Owner and the Commission that it understands the goods and services under this Agreement are being funded with monies made available by the Clean Water State Revolving Fund and/or Drinking Water State Revolving Fund that have statutory requirements commonly known as "American Iron and Steel;" that requires all of the iron and steel products used in the project to be produced in the United States including iron and steel products provided by the Contactor pursuant to this Agreement. The Contractor hereby represents and warrants to and for the benefit of the Owner and the Commission that

- (a) the Contractor has reviewed and understands the American Iron and Steel Requirement,
- (b) all of the iron and steel products used in the project will be and/or have been produced in the United States in a manner that complies with the American Iron and Steel Requirement, unless a waiver of the requirement is approved, and
- (c) the Contractor will provide any further verified information, certification, or assurance of compliance with this paragraph, or information necessary to support a waiver of the American Iron and Steel Requirement, as may be requested by the Owner or the Commission.

Notwithstanding any other provision of this Agreement, any failure to comply with this paragraph by the Contractor shall permit the Owner or Commission to recover as damages against the Contractor any loss, expense, or cost (including without limitation attorney's fees) incurred by the Owner or Commission resulting from any such failure (including without limitation any impairment or loss of funding, whether in whole or in part, from the Commission or any damages owed to the Commission by the Owner). While the Contractor has no direct contractual privity with the Commission, as a lender to the Owner for the funding of its project, the Owner and the Contractor agree that the Commission is a third-party beneficiary and neither this paragraph (nor any other provision of this Agreement necessary to give this paragraph force or effect) shall be amended or waived without the prior written consent of the Commission. A copy of the EPA Memorandum implementing the American Iron and Steel requirement and its procedures is attached as Appendix D to these SRF Supplemental General Conditions.

9. RESERVED FOR USE WITH SRF EQUIVALENCY PROGRAM

This section is reserved for the Build America Buy America (BABA) requirements for projects that are in the SRF Equivalency Program.

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10. RESERVED FOR USE WITH SRF EQUIVALENCY PROGRAM

This section is reserved for the Disadvantaged Business Enterprises (DBE) which includes Minority Business Enterprises and Women Business Enterprises (MBE/WBE) requirements for projects that are in the SRF Equivalency Program.

11. **EQUAL EMPLOYMENT OPPORTUNITY CLAUSE**

- A. The Contractor will not discriminate against any employee or applicant for employment because of race, color, creed, sex, age, marital status, or national origin. The Contractor shall take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, creed, sex, age, marital status, or national origin. Such action shall include, but not be limited to the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to furnish and post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this equal employment opportunity clause.
- B. The Contractor shall, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, creed, sex, age, marital status, or national origin.
- C. In the event of the Contractor's noncompliance with the equal employment opportunity clause of this contract or with any rules, regulations, or orders, this contract may be cancelled, terminated, or suspended in whole or in part.
- D. The Contractor shall include the provisions of subparagraph's (A) through (C) in every subcontract or purchase order involved with this contract.
- E. The Contractor or any Subcontractor shall have an affirmative action plan which declares that it does not discriminate on the basis of race, color, creed, national origin, sex, marital status, or age and which specifies goals and target dates to assure the implementation of that plan. The Owner shall establish procedures to assure compliance with this requirement by the Contractor and to assure that suspected or reported violations are promptly investigated.
- F. The Contractor and Subcontractors supplying materials, equipment and/or labor must comply with the Civil Rights Act of 1964 as amended (42 U.S.C. 2000d et seq.), Section 504 of the Rehabilitation Act of 1973 as amended (29 U.S.C. 794), Section 13 of the Federal Water Pollution Control Act Amendments of 1972 regarding sex discrimination (Public Law 92-500), and the Age Discrimination Act of 1973.

The Contractor and all Subcontractors shall provide equal employment opportunity for all qualified applicants and all contractor solicitations for employees must contain the Equal Employment Opportunity statement. The Prime Contractor must assure Subcontractor compliance with the Civil Rights Act for each subcontract by including the Act of Assurance form and these SRF Supplemental General Conditions in each Subcontract in excess of \$10,000. Applicable Equal Employment Opportunity regulations and Nondiscrimination provisions are described in the Appendix to these SRF Supplemental General Conditions.

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12. LABOR STANDARDS

The Contractor and all Subcontractors awarded subcontracts shall pay all laborers and mechanics employed on the project not less than the prevailing wage rates, as determined by the United States Secretary of Labor, in accordance with the Davis-Bacon Act as provided for in the SRF Supplemental General Condition's Appendix A.

The wage decision identifies job classifications and minimum wages to be paid to all workers. Payrolls must be submitted weekly by the Contractor and all non-exempt Subcontractors to the Owner showing each worker's name, address, job classification, hourly rate of pay, daily regular and overtime hours, gross and net pay, and any fringe benefits where applicable. All workers are required to receive overtime pay in any week in which the hours worked exceed 40 hours per work week. Overtime is paid at a rate not less than 1 and 1/2 times the worker's base rate of pay.

The Owner is responsible for monitoring contractor compliance with Davis-Bacon Act requirements of Appendix A. The Owner's responsibilities will include, but not be limited to, payroll review for compliance, maintain payroll files, and conduct on-site interviews with the Contractor's employees to verify payroll accuracy. The Owner will provide the Commission a letter with each pay request certifying wages, through payroll review and employee interviews, met the Davis-Bacon Requirements of this contract. Copies of completed interviews will be forwarded to the Commission.

13. **RESPONSIBILITIES OF PARTICIPANTS REGARDING TRANSACTIONS** (A.K.A. DEBARMENT AND SUSPENSION)

Individuals or organizations that have been debarred or excluded from participating in Federal Assistance programs under 40 CFR Part 32 are prohibited from participating in the SRF program. This prohibition applies for every contract and subcontract for materials, supplies, equipment, and services. Contractors and Subcontractors shall execute the Contractors Act of Assurance Form as provided in the Contract Documents certifying compliance with 40 CFR Part 32.

14. **PROCUREMENT PROHIBITIONS**

As required by Executive Order 11738, Section 306 of the Clean Air Act and Section 508 of the Clean Water Act, SRF loan recipients, Prime Contractors and Subcontractors are prohibited from procuring goods and services from persons who have been convicted of violations of either law if the goods or services are to be produced by the facility that gave rise to the violation.

15. SUBSTITUTIONS (of "or Equal")

All SRF procurement transactions shall be conducted in a manner that promotes maximum free and open competition. Whenever a material, article, or piece of equipment is identified on the Drawings or Specifications by reference to brand name or catalogue numbers, it shall be understood that this is referenced for the purpose of defining the performance or other salient requirements and that other products of equal capacities, quality and function shall be considered for substitution. The Contractor may recommend the substitution of a material, article, or piece of equipment of equal substance and function for those referred to in the Contract Documents by reference to brand name or catalogue number, and if, in the opinion of the Engineer, such material, article or piece of equipment is of equal substance and function to that specified, the Engineer may approve its substitution and use by the Contractor. Any cost differential shall be deductible from the Contract Price and the Contract Documents shall be appropriately modified by Change Order. The Contractor warrants that if substitutes are approved, no major changes in

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the function or general design of the Project will result. Incidental changes or extra component parts required to accommodate the substitute will be made by the Contractor without a change in the Contract Price or Contract Time.

16. **INSURANCE**

- A. The Contractor shall purchase and maintain such insurance as will protect it from claims set forth below which may arise out of, or result from, the Contractor's execution of the Work, whether such execution be by the Contractor, any Subcontractor, or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable:
 - Claims under worker's compensation, disability benefit and other similar employee benefit
 - ii. Claims for damages because of bodily injury, occupational sickness or disease, or death of employees;
 - iii. Claims for damages because of bodily injury, sickness or disease, or death of any person other than employees;
 - Claims for damages insured by usual personal injury liability coverage which are sustained iv. (1) by any person as a result of an offense directly or indirectly related to the employment of such person by the Contractor, or (2) by any other person; and
 - Claims for damages because of injury to or destruction of tangible property, including loss of use resulting therefrom.
- B. Certificates of Insurance acceptable to the Owner and the Commission shall be filed with the Owner and the Commission prior to commencement of the Work. Each insurance policy shall contain a clause providing that it shall not be canceled by the insurance company without written notice to the Owner and the Commission of intention to cancel that is in accordance with Arkansas Code Annotated §23-66-206. These Certificates shall contain a provision that coverages afforded under the policies will not be cancelled unless at least fifteen days prior written notice has been given to the Owner and the Commission. The Insurance shall be made by an agent licensed by the Insurance Commissioner of the State of Arkansas to represent the surety company executing the bonds. Furthermore, the Commission will be a "Certificate Holder" and the words "will endeavor" must be removed from the insurance form.
- C. The Contractor shall procure and maintain, at the Contractor's own expense, during the Contract Time, liability insurance as hereinafter specified:

Contractor's General Public Liability and Property Damage Insurance including vehicle coverage issued to the Contractor and protecting the Contractor from all claims for personal injury, including death, and all claims for destruction of or damage to property, arising out of or in connection with any operations under the Contract Documents, whether such operations be by the Contractor or by any Subcontractor employed by the Contractor or anyone directly or indirectly employed by the Contractor or by a Subcontractor employed by the Contractor. Insurance shall be written with a limit of liability of not less than \$1,000,000 for all damages arising out of bodily injury, including death, at any time resulting therefrom sustained by any one person in any one accident; and a limit of liability of not less than \$2,000,000 aggregate for any such damage sustained by two or more persons in any one accident. Insurance shall be written with a limit of liability of not less than \$1,000,000 for all property damage sustained by any one person in any one accident; and a limit of liability of not less than \$1,000,000 aggregate for any such damage sustained by two or more persons in any one accident.

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D. The Contractor shall furnish umbrella liability coverage and keep it in effect during the term of the contract which provides excess limits over the primary coverages. The minimal amount of coverage will be determined by the Risk Management Division of the Arkansas Insurance Department.

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- E. The Contractor shall procure and maintain, at the Contractor's own expense, during the Contract Time, in accordance with the provisions of the laws of the State in which the Work is performed, Worker's Compensation Insurance, including occupational disease provisions, for all of the Contractor's employees at the site of the Project and in case any Work is sublet, the Contractor shall require such Subcontractor similarly to provide Worker's Compensation Insurance, including occupational disease provisions for all of the latter's employees unless such employees are covered by the protection afforded by the Contractor. In case any class of employees engaged in hazardous work under this contract at the site of the Project is not protected under Worker's Compensation statute, the Contractor shall provide, and shall cause each Subcontractor to provide, adequate and suitable insurance for the protection of its employees not otherwise protected.
- F. The Contractor shall secure, if applicable, "All Risk" type Builder's Risk Insurance for Work to be performed. Unless specifically authorized by the Owner, the amount of such insurance shall not be less than the Contract Price totaled in the Bid. The policy shall cover not less than the losses due to fire, explosion, hail, lightening, vandalism, malicious mischief, wind, collapse, riot, aircraft, and smoke during the Contract Time, and until the Work is accepted by the Owner. The policy shall name as the insured the Contractor, and the Owner.

17. CONTRACT SECURITY

- A. The Contractor shall within ten days after the receipt of the Notice of Award furnish the Owner and the Commission with a Performance Bond and a Payment Bond in penal sums equal to the amount of the Contract Price, conditioned upon the performance by the Contractor of all undertakings, covenants, terms, conditions and agreements of the Contract Documents, and upon the prompt payment by the Contractor to all persons supplying labor and materials in the prosecution of the Work provided by the Contract Documents. Such Bonds shall be executed by the Contractor and a corporate bonding company licensed to transact such business in the State in which the Work is to be performed and named on the current list of "Surety Companies Acceptable on Federal Bonds" as published in the Treasury Department Circular Number 570, provided that the contract amount shall not exceed the underwriting limitation listed for the surety in Circular 570. For contracts in excess of \$100,000.00, the Bonds shall be issued by a Bonding Company by the A.M. BEST Rating Book as follows:
 - contracts in excess of \$100,000.00, but less than \$1,000,000.00 "B+" rating or higher and contract amount may not exceed 2.0% of the policyholder's surplus.
 - contracts in excess of \$1,000,000.00 "A" rating or higher and contracts may not exceed ii. 2.0% of the policyholder's surplus.
- B. In addition, the Bonds shall be executed by an Agent licensed by the Insurance Commissioner of the State of Arkansas to represent the surety company executing the bonds. The mere countersigning of a bond will not be sufficient. The Agent shall file with the bonds its Power of Attorney. The expense of these Bonds shall be borne by the Contractor. If at any time a surety on any such Bond is declared bankrupt or loses its right to do business in the State of Arkansas or is

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removed from the above list of Surety Companies, the Contractor shall notify the Owner, Engineer, and the Commission and substitute an acceptable Bond (or Bonds) in such form and sum and signed by such other surety or sureties as may be satisfactory to the Owner and Commission. The Contractor shall pay the premiums on such Bond. No further payment shall be deemed due nor shall be made until the new surety or sureties shall have furnished an acceptable Bond to the Owner and the Commission

18. ASSIGNMENTS

The Contractor shall not sell, transfer, assign or otherwise dispose of the Contract or any portion thereof, or of any right, title or interest therein, or any obligations thereunder, without written consent of the Owner.

19. INDEMNIFICATION

- A. The Contractor will indemnify and hold harmless the Owner and the Engineer and their agents and employees from and against all claims; damages, losses and expenses including attorney's fees arising out of or resulting from the performance of the Work, provided that any such claims, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction or tangible property including the loss of use resulting therefrom; and is caused in whole or in part by any negligent or willful act or omission of the Contractor, and Subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable.
- B. In any and all claims against the Owner or the Engineer, or any of their agents or employees, by any employee of the Contractor, any Subcontractor, anyone directly or indirectly employed by any of them, or anyone for whose acts any of them may be liable, the indemnification obligation shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for the Contractor or any Subcontractor under worker's compensation acts, disability benefits acts or other employee benefits acts.
- C. The obligation of the Contractor under this paragraph shall not extend to the liability of the Engineer, its agents or employees arising out of the preparation or approval of maps, Drawings, opinions, reports, surveys, Change Orders, designs or Specifications.

20. SEPARATE CONTRACTS

- A. The Owner reserves the right to let other contracts in connection with this Project. The Contractor shall afford other Contractors reasonable opportunity for the introduction and storage of their materials and the execution of their Work, and shall properly connect and coordinate the Work with theirs. If the proper execution or results of any part of the Contractor's Work depends upon the Work of any other Contractor, the Contractor shall inspect and promptly report to the Engineer any defects in such Work that render it unsuitable for such proper execution and results.
- B. The Owner may perform additional Work related to the Project or the Owner may let other contracts containing provisions similar to these. The Contractor will afford the other Contractors who are parties to such contracts (or the Owner, if the Owner is performing the additional Work) reasonable opportunity for the introduction and storage of materials and equipment and the execution of Work, and shall properly connect and coordinate the Work with theirs.

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C. If the performance of additional Work by other Contractors or the Owner is not noted in the Contract Documents prior to the execution of the Contract, written notice thereof shall be given to the Contractor prior to starting any such additional Work. If the Contractor believes that the performance of such additional Work by the Owner or others involves it in additional expense or entitles it to an extension of the Contract Time, the Contractor may make a claim thereof as provided in Sections 15 and 16.

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21. **SUBCONTRACTING**

- A. The Contractor may utilize the services of specialty Subcontracts on those parts of the Work which, under normal contracting practices, are performed by specialty Subcontractors.
- B. The Contractor shall not award Work to Subcontractor(s), in excess of fifty percent of the Contract Price, without prior written approval of the Owner.
- C. The Contractor shall be fully responsible to the Owner for the acts and omissions of its Subcontractors, and of persons either directly or indirectly employed by them, as the Contractor is for the acts and omissions of persons directly employed by the Contractor.
- D. The Contractor shall cause appropriate provisions to be inserted in all subcontracts relative to the Work to bind Subcontractors to the Contractor by the terms of the Contract Documents insofar as applicable to the Work of Subcontractors and to give the Contractor the same power as regards terminating any subcontract that the Owner may exercise over the Contractor under any provision of the Contract Documents.
- E. Nothing contained in this Contract shall create any contractual relationship between any Subcontractor and the Owner.

22. PRE-CONSTRUCTION CONFERENCE

A Pre-Construction Conference (PCC) will be held following the SRF loan closing, the review of bid documents by the Commission, and the Award of the construction contract(s). Work orders will not be issued until after the PCC is held and the Contractor has furnished an acceptable completion schedule as described by these SRF Supplemental General Conditions. The PCC shall be attended by the Owner, Engineer, Contractor(s), and representatives of the Commission. The purpose of the conference will be to define the roles and responsibilities of the Owner, the Commission, the Engineer and all Contractors during the performance of the Contract.

23. **SCHEDULES, REPORTS AND RECORDS**

- The Contractor shall submit to the Owner and the Engineer such schedule of quantities and costs, progress schedules, payrolls, reports, estimates, records and other data where applicable as are required by the Contract Documents for the Work to be performed. One copy of the up-to-date schedule shall be maintained at the job site.
- B. Prior to the first partial payment estimate, the Contractor shall submit construction progress schedules showing the order in which the Contractor proposes to carry on the Work, including dates at which the various parts of the Work will be started, estimated date of completion of each part and, as applicable:
 - The dates at which special detailed drawings will be required; and

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Respective dates for submission of Shop Drawings, the beginning of manufacture, the testing and the installation of materials, supplies and equipment.

C. The Contractor shall also submit a schedule of payments that the Contractor anticipates will be earned during the course of the Work that must be updated each month.

24. **JOB BULLETIN BOARD**

The Contractor shall maintain a weather-tight job bulletin board in an area frequented by the Contractor's employees for the duration of construction. The job bulletin board shall display at a minimum a copy of the Davis-Bacon Wage Decision, a Davis-Bacon poster, a notice to employees concerning minimum wage requirements, Equal Employment Opportunity (Labor Standards) information, and a notice to labor unions as applicable. A copy of the construction schedule (i.e. critical path chart) is to be placed on the job bulletin board and updated monthly, showing project progress.

25. **SHOP DRAWINGS**

- The Contractor shall provide Shop Drawings as may be necessary for the prosecution of the Work as required by the Contract Documents. The Engineer shall promptly review all Shop Drawings. The Engineer's approval of any Shop Drawings shall not release the Contractor from responsibility for deviations from the Contract Documents. The approval of any Shop Drawings, which substantially deviates from the requirement of the Contract Documents, shall be evidenced by a Change Order.
- B. When submitted for the Engineer's review, Shop Drawings shall bear the Contractor's certification that he has reviewed, checked and approved the Shop Drawings and that they are in conformance with the requirements of the Contract Documents.
- C. Portions of the Work requiring Shop Drawings or submission of samples shall not begin until the Shop Drawings or submissions have been approved by the Engineer. A copy of each approved Shop Drawing and each approved sample shall be kept in good order by the Contractor at the site and shall be available to the Engineer.

26. **MATERIALS, SERVICES AND FACILITIES**

- A. It is understood that, except as otherwise specifically stated in the Contract Documents, the Contractor shall provide and pay for all materials, labor, tools, equipment, water, lights, power, transportation, supervision, temporary construction of any nature, and all other services and facilities of any nature whatsoever necessary to execute, complete and deliver the Work within the specified time.
- B. Materials and equipment shall be so stored as to insure the preservation of their quality and fitness for the Work. Stored materials and equipment to be incorporated in the Work shall be located so as to facilitate prompt inspection. Materials not located in or near the project site will not be eligible for re-imbursement.
- C. Manufactured articles, materials, and equipment shall be applied, installed, connected, erected, used, cleaned and conditioned as directed by the Manufacturer.

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D. Materials, supplies, and equipment shall be in accordance with samples submitted by the

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E. Materials, supplies or equipment to be incorporated into the Work shall not be purchased by the Contractor or the Subcontractor subject to a chattel mortgage or under a conditional sale contract or other agreement by which an interest is retained by the Seller.

27. **SAFETY STANDARDS**

Contractor and approved by the Engineer.

A. The Contractor is responsible for complying with the Department of Labor Safety and Health Regulations promulgated under Section 107 of the Contract Work Hours and Safety Standard Act (40 U.S.C. 327-333). The Contractor shall not require any laborer or mechanic employed in the performance of the contract to work in surroundings or under working conditions which are unsanitary, hazardous, or dangerous to his health or safety, as determined under construction safety and health standards promulgated by regulations of the Secretary of Labor.

Job site situations which pose an immediate and serious threat to life or safety will be referred to the Occupational Safety and Health Administration (OSHA).

- B. Act 291 of the 1993 Arkansas General Assembly applies to all public improvement construction projects that involve any trench or excavation which equals or exceeds five feet in depth. Beginning March 1, 1993, Act 291 requires that:
 - The current edition of Occupational Safety and Health Administration Standard for Excavation and Trenches Safety System, 29 CFR 1926, Subpart P, be specifically incorporated into the specifications for the project; and
 - The contract bid form include a separate pay item for trench and excavation safety systems and be included in the base bid.

In the event that a Contractor fails to complete a separate pay item in accordance with the Act, the Owner shall declare that the bid fails to comply fully with the specifications and the bid will be considered invalid as a non-responsive bid.

The Owner shall notify the Safety Commission of the State Department of Labor of the award of a contract covered by this Act.

28. PROTECTION OF LIVES AND PROPERTY

- A. In order to protect the lives and health of its employees under the contract, the Contractor shall comply with all pertinent provisions of the "Manual of Accident Prevention in Construction" issued by the Associated General Contractors of America, Inc., and shall maintain an accurate record of all cases of death, occupational disease, and injury requiring medical attention or causing loss of time from work, arising out of and in the course of employment or work under the contract.
- B. The Contractor alone shall be responsible for the safety, efficiency, and adequacy of its plant, appliances and methods and for any damage which may result from his failure or his improper construction, maintenance or operation.

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29. PROTECTION OF WORK, PROPERTY, AND PERSONS

A. The Contractor will be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Work. The Contractor will take all necessary precautions for the safety of, will provide the necessary precautions for the safety of, and will provide the necessary protection to prevent damage, injury or loss to all employees on the Work and other persons who may be affected thereby, all the Work and all materials or equipment to be incorporated therein, whether in storage on or off the site, and other property at the site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures and utilities not designated for removal, relocation or replacement in the course of construction.

- B. The Contractor will comply with all applicable laws, ordinances, rules, regulations and orders of any public body having jurisdiction. The Contractor will erect and maintain, as required by the conditions and progress of the Work, all necessary safeguards for safety and protection. The Contractor will notify owners of adjacent utilities when prosecution of the Work may affect them. The Contractor will remedy all damage, injury or loss to any property caused, directly or indirectly, in whole or part, by the Contractor, any Subcontractor or anyone directly or indirectly employed by any of them or anyone for whose acts any of them be liable, except damage or loss attributable to the fault of the Contract Documents or to the acts or omissions of the Owner, of the Engineer or anyone employed by either of them or anyone for whose acts either of them may be liable, and not attributable, directly or indirectly, in whole or in part, to the fault or negligence of the Contractor.
- C. In emergencies affecting the safety of persons or the Work or property at the site or adjacent thereto, the Contractor, without special instructions or authorization from the Engineer or Owner, shall act to prevent threatened damage, injury or loss. The Contractor will give the Engineer prompt Written Notice of any significant changes in the Work or deviations from the Contract Documents caused thereby, and a Change Order shall thereupon be issued covering the changes and deviations involved.

30. PROTECTION OF THE ENVIRONMENT

The Contractor will provide for protection of the environment as required by the Contract Documents, Local Ordinance, State and Federal Law and these SRF Supplemental General Conditions. The Contractor shall:

- i. Limit the area of construction disturbance to areas within temporary and permanent easements and the land areas designated for the Contractors use in performing the work.
- ii. Provide for the protection of trees, shrubs and grass wherever possible.
- iii. Provide for the prevention of air pollution through burning permits as required. The Contractor shall provide dust control on haul roads as site conditions dictate.
- Control noise pollution by providing efficient mufflers on all machinery and limiting work iv. hours if required by the Contract Documents.
- Control excessive erosion and sedimentation at the job site through prompt seeding of ٧. disturbed areas and the construction of temporary control measures as required in the contract documents and by Storm Water Permits.
- vi. Perform the work in coordination with the Owner and in a manner that will provide for the continuous transport and treatment of wastewater during construction.
- Cease all work in areas where species classified as threatened or endangered under the vii. Endangered Species Act (Public Law 93-205 as amended) are discovered and promptly notify the Engineer.

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31. ARCHAEOLOGICAL, HISTORICAL, AND CULTURAL REMAINS

The Contractor shall immediately stop all work in any area where artifacts of archaeological, historical or cultural significance are found and notify the Engineer. The Owner shall notify the Commission, the State Advisory Council on Historic Preservation and the Arkansas Natural Heritage Commission of the discovery.

32. **STORM WATER PERMIT REQUIREMENTS**

- A. The Contractor is advised that if this construction activity involves clearing, grading or excavation activities that result in the disturbance of one or more acres of total land area including areas which are part of the total SRF project, this activity is subject to Storm Water Permit Requirements of the Arkansas Division of Environmental Quality. The Owner will obtain an NPDES General Stormwater Permit for construction activities (ARR150000). The Contractor is responsible for compliance with all terms and conditions of the General Permit. Most SRF projects are eligible for inclusion under the General Permit.
- B. The General Permit requires the control of the entrance of pollutants into the surface and ground waters of the State. Temporary and permanent sediment and erosion control measures must be included in the Work during the course of construction. These measures may include temporary and permanent seeding, construction of catch basins, the use of mulch, straw bales and silt fences to control sediments, the use of riprap at erosion-prone areas, and other measures.
- C. The General Permit also requires maintenance and "good housekeeping practices" that include items such as proper waste disposal, proper storage for hazardous materials and designating safe places for equipment maintenance and wash-down.
- D. The Contractor is required to maintain on-site a Stormwater Pollution Prevention Plan describing the storm water pollution prevention measures that will be taken at the construction site. The Plan must include a site description, a description of the nature of the activity, the intended sequence of the work, estimates of the total area involved in the activity, an estimate of the possible volume of runoff from the area, site maps showing drainage patterns, pollution prevention measures that will be taken, and other items.
- E. The Contractor is responsible for implementation of Best Management Practices described within the Stormwater Pollution Prevention Plan.
- F. The Contractor shall be responsible for implementing all applicable requirements of the Owner's ADEQ General Stormwater Permit for Construction Activity, 401 Water Quality Certification, the COE Section 404 Permit, the ADEQ Short-Term Activity Authorization, the SPCCP, the USFWS recommendations for cave protection, local Municipal Separate Storm Sewer requirements, and all other environmental regulatory requirements that are associated with the construction activities that the Contractor is to perform.
- G. Additional information and application materials may be obtained by writing to the Arkansas Division of Environmental Quality's Storm Water Permits Section.

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33. **ENGINEER'S AUTHORITY**

A. The Engineer shall act as the Owner's representative during the construction period, shall decide questions which may arise as to quality and acceptability of materials furnished and Work performed, and shall interpret the intent of the Contract Documents in a fair and unbiased manner. The Engineer will make visits to the site and determine if the Work is proceeding in accordance with the Contract Documents.

- B. The Contractor will be held strictly to the intent of the Contract Documents in regard to the quality of materials, workmanship, and execution of the Work. Inspections may be made at the factory or fabrication plant of the source of material supply.
- C. The Engineer will not be responsible for the construction means, controls, techniques, sequences, procedures, or construction safety.
- D. The Engineer shall promptly make decisions relative to interpretation of the Contract Documents.

34. OWNER'S PROTECTION FROM CONTRACTOR'S ACTIONS

The Engineer may withhold or, on account of subsequently discovered evidence, nullify the whole or part of any approved partial payment estimate to such extent as may be necessary to protect the owner from loss on account of:

- i. Defective work not remedied.
- Claims filed or reasonable evidence indicating probable filing of claims. ii.
- iii. Failure of Contractor to make payments properly to Subcontractors or for material or labor.
- iv. A reasonable doubt that the work can be completed for the balance then unpaid.
- Damage to another Contractor. ٧.
- Performance of work in violation of the terms of the contract documents.

35. **INSPECTION AND TESTING**

- A. All materials and equipment used in the construction of the Project shall be subject to adequate inspection and testing in accordance with generally accepted standards, as required and defined in the Contract Documents.
- B. The Owner shall provide for full time inspection of the work by the Engineer to assure the work is being performed in accordance with the approved plans, specifications and change orders; and in accordance with sound engineering principles and building practices.

The Resident Inspector(s) of the Owner will perform required inspections and tests and maintain on-site records as assurance that the work conforms to the contract requirements. The Resident Inspector shall make available to the Owner and Commission representatives adequate records of such inspections and tests. Failed tests with passing retests will be clearly marked in the project records.

C. The Contractor will maintain an adequate inspection and supervision system and perform required inspections and tests to assure that the work conforms to the contract requirements. The Contractor will make available to the Owner and the Commission adequate records of such inspections and tests. Failed tests with passing re-tests will be clearly marked in the project records.

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D. If laws, ordinances, or regulations of any public body having jurisdiction require any Work (or part thereof) to specifically be inspected, tested, or approved by an employee or other representative of such public body, the Contractor shall assume full responsibility for arranging and obtaining such inspections, tests, or approvals, pay all costs in connection therewith, and furnish the Engineer the required certificates of inspection or approval.

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- E. Inspections, tests, or approvals by the Engineer or others shall not relieve the Contractor from the obligations to perform the Work in accordance with the requirements of the Contract Documents and Specifications.
- F. The Engineer and the Engineer's representatives will at all times have access to the Work. In addition, authorized representatives and agents of any participating State agency shall be permitted to inspect all work, materials, payrolls, records or personnel, invoices of materials, and other relevant data and records. The Contractor will provide proper facilities for such access and observation of the Work and also for any inspection or testing thereof.
- G. The Commission will make periodic engineering and administrative inspections of the project to examine project records, monitor progress and inspect the work for conformance with contract requirements. The Commission shall notify the Owner and the Engineer of any observed deficiencies in the completed construction, procedures or materials used in construction, resident inspection, engineering supervision, financial management or any violation of loan program requirements. The Commission will require the Owner to take such action as may be necessary to correct any such observed deficiency.
- H. If any Work is covered contrary to the written instructions of the Engineer it must, if requested by the Engineer, be uncovered for the Engineer's observation and replaced at the Contractor's expense.
- I. If the Engineer considers it necessary or advisable that covered Work be inspected or tested by others, the Contractor, at the Engineer's request, will uncover, expose or otherwise make available for observation, inspection or testing as the Engineer may require, that portion of the Work in question, furnishing all necessary labor, materials, tools, and equipment. If it is found that such Work is defective, the Contractor will bear all the expenses of such uncovering, exposure, observation, inspection and testing and of satisfactory reconstruction, if however, such Work is not found to be defective, the Contractor will be allowed an increase in the Contract Price or an extension of the Contract Time, or both, directly attributable to such uncovering, exposure, observation, inspection, testing and reconstruction and an appropriate Change Order shall be issued.
- The Contractor shall maintain books, records, documents and other evidence directly pertinent to performance on SRF funded work under this agreement in accordance with the provisions of these Contract Documents. The Contractor shall also maintain the financial information and data used in the preparation or support of the cost submission required for a change order and a copy of the cost summary submitted to the Owner. The Owner and the Commission or any of their authorized representatives shall have access to all such books, records, documents and other evidence for the purpose of inspection, audit and copying during normal business hours. The Contractor will provide proper facilities for such access and inspection.

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K. Upon completion of all project construction, the Commission will schedule a final inspection within thirty days of receipt of a written certification by the Owner that construction is ready for a final inspection. Prior to approval of the final construction payment, the Commission will verify that all construction is complete in accordance with plans, specifications and approved change orders, all equipment has been purchased and installed, the final contract amounts have been agreed to by Change Order, as-built drawings are complete, and the Owner has prepared an operation and maintenance manual that includes contractor supplied data as required by these SRF Supplemental General Conditions.

Following an acceptable Final Inspection by the Commission, the Commission will provide written acceptance to the Owner of the project and the final construction payment can be requested. The Commission will not approve the final construction payment until the Owner and the Contractor has complied with the requirement for the release of final payment as outlined in these SRF Supplemental General Conditions.

36. **SUPERVISION BY CONTRACTOR**

The Contractor will supervise and direct the Work. He will be solely responsible for the means, methods, techniques, sequences and procedures of construction. The Contractor will employ and maintain on the Work a qualified supervisor or superintendent who shall have been designated in writing by the Contractor as the Contractor's representative at the site. The Supervisor shall have full authority to act on behalf of the Contractor and all communications given to the supervisor shall be as binding as if given to the Contractor. The Supervisor shall be present on the site at all times as required to perform adequate supervision and coordination of the Work.

37. **PAYMENT TO CONTRACTOR**

- A. Disbursements from the State Revolving Loan Fund (SRF) Programs shall be made monthly based upon actual work performed and materials stored on site less retainage. Funds will not be disbursed from the SRF without approval by the Commission. The Commission will approve disbursements provided the Owner (loan recipient) and the Contractor are in compliance with the provisions of these contract documents and SRF requirements. Contract cost overruns approved by the Commission but in excess of the loan amount must be funded by the Owner or through an additional loan. Contract cost overruns not approved by the Commission must be funded by the Owner.
- B. Each month, at least ten days before each progress payment falls due (but not more often than once a month), the Contractor shall prepare and submit to the Engineer a progress estimate acceptable in form and content to the Engineer and the Commission supported by such data as the Engineer may reasonably require. The estimate shall show a detailed breakdown of the amount of work completed previously, amount of work completed this period, amount of work completed to date, the amount of retainage, and the quantity and value of materials and equipment currently stored on site that have not been incorporated into the work. Partial payment requests will be placed on the form provided by the Commission and must include a reduced scale copy of the updated construction schedule. If payment is requested on the basis of materials and equipment not incorporated in the Work but delivered and suitably stored at or near the site, the partial payment estimate shall also be accompanied by such supporting data, satisfactory to the Owner as will establish Owner's title to the material and equipment and protect the Owner's interest therein, including applicable insurance.

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The progress payment request shall also include a certification by the Contractor that it has complied with all labor standards. The Certification may be placed in the content of the progress payment request or Commission form "Certification by Contractor of Labor Standards Compliance" may be attached to the payment request. No disbursement request will be approved by the Commission without this certification. Furthermore, the Owner will provide the Commission a letter with each pay request certifying wages, through payroll review and employee interviews, met the Davis-Bacon Requirements of this contract. Copies of completed interviews will be forwarded to the Commission.

The Engineer will, within ten days after receipt of each partial payment estimate, either indicate in writing approval of payment, and present the partial payment estimate to the Owner or return the partial payment estimate to the Contractor indicating in writing the reasons for refusing to approve payment. In the latter case, the Contractor may make the necessary corrections and resubmit the partial payment estimate. The Owner will, within ten days of presentation of an approved partial payment estimate, pay the Contractor a progress payment on the basis of the approved partial payment estimate less the retainage.

Retainage will be in accordance with state law (Arkansas Code of 1987 as amended, Annotated 22-9-604) and as described herein. The retainage shall be an amount equal to five percent of said estimate (excluding Section C. below). Upon final completion of the work, any amount retained may be paid to the Contractor. When the Work has been completed except for Work which cannot be completed because of weather conditions, lack of materials or other reasons which in the judgement of the Owner are valid reasons for non-completion, the Owner may make additional payments, retaining at all times an amount sufficient to cover the estimated cost of the Work still to be completed.

- C. In compliance with Arkansas Code Ann. §17-25-404 (1995), ten percent may be withheld from the Engineer's estimate until a proper statement or certificate is received from the Contractors Licensing Board stating that the required bond has been filed and that the Contractor is otherwise in compliance with Arkansas Code Ann. §17-25-404 (1995).
 - i. That no compensating tax is due the State under the contract.
 - That the tax due under the contract has been paid. ii.
 - That a suitable surety bond has been provided by the Contractor and approved by the iii. Contractors Licensing Board as prescribed in the Act.
- D. The Owner shall request payment on Disbursement Request Form supplied during the Pre-Construction Conference. The requested amount shall not exceed the current amounts approved for construction, engineering and other project costs on individual line items. Only those individuals authorized to represent the Owner and the Engineer shall sign the Disbursement Request Form. Documentation for costs incurred since the last disbursement request must accompany each pay request including the Contractor's monthly pay estimate with attachments as described in these SRF Supplemental General Conditions and invoices for engineering, administrative, and legal services as well as approved equipment costs.
- E. The Owner is required to submit one copy of the completed Disbursement Request Form and all supporting documentation to the Commission for processing via the approved method; the deadlines for all disbursements from the Owner to the Commission will be discussed at the Preconstruction Conference. Disbursement requests not received at the Commission prior to the

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deadlines established in the Preconstruction Conference will not be processed and paid until the following month.

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For the Owner to realize this deadline, Contractor estimates should be received by the Engineer on or before the 10th day of each month. The actual due date for Contractor estimates shall be as established by the Contract Documents or by the Engineer.

- F. Disbursements from the SRF are generally received by the Owner (loan recipient) from the Arkansas Development Finance Authority (ADFA) within the first ten working days of the month. The Owner shall promptly pay all bills due as disbursements are made from the SRF.
- G. Prior to Substantial Completion, the Owner with the approval of the Engineer and with the concurrence of the Contractor, may use any completed or substantially completed portions of the Work. Such use shall not constitute an acceptance of such portions of the Work.
- H. The Owner shall have the right to enter the premises for the purpose of doing work not covered by the Contract Documents. This provision shall not be construed as relieving the Contractor of the sole responsibility for the care and protection of the Work, or the restoration of any damaged Work except such as may be caused by agents or employees of the Owner.
- Upon completion and acceptance of the Work, the Engineer shall issue a certificate attached to the final payment request that the Work has been accepted under the conditions of the Contract Documents. The entire balance found to be due the Contractor, including the retained percentages, but except such sums as may be lawfully retained by the Owner shall be paid to the Contractor within thirty days of completion and acceptance of the Work.
- J. The Contractor will indemnify and save the Owner or the Owner's gents harmless from all claims growing out of the lawful demand of Subcontractors, laborers, workmen, mechanics, materialmen, and furnishers of machinery and parts thereof, equipment, tools and all supplies, incurred in the furtherance of the performance of the Work. The Contractor shall, at the Owner's request, furnish satisfactory evidence that all obligations of the nature designated above have been paid, discharged, or waived. If the Contractor fails to do so the Owner may, after having notified the Contractor, either pay unpaid bills or withhold from the Contractor's unpaid compensation a sum of money deemed reasonably sufficient to pay any and all such lawful claims until satisfactory evidence is furnished that all liabilities have been fully discharged whereupon payment to the Contractor shall be resumed in accordance with the terms of the Contract Documents, but in no event shall the provisions of this sentence be construed to impose any obligations upon the Owner to either the Contractor, the Contractor's Surety, or any third party. In paying any unpaid bills of the Contractor, any payment so made by the Owner shall be considered as a payment made under the Contract Documents by the Owner to the Contractor and the Owner shall not be liable to the Contractor for any such payments made in good faith.
- K. If the Owner fails to make payment thirty days after approval by the Engineer, in addition to other remedies available to the Contractor, there shall be added to each such payment interest at the maximum legal rate commencing on the first day after said payment is due and continuing until the payment is received by the Contractor.

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L. In addition to the Contract Time specified in these Contract Documents, the Bond Purchase Agreement between the Owner and the Commission contains an estimated completion date beyond which no further loan disbursements will be made without specific written waiver by ADFA and the Commission. ADFA and the Commission will grant waivers only where there is sufficient documented evidence that project completion was delayed through no fault of the Contractor and the Owner.

Regardless of the existence of circumstances where a delay in completion is beyond the control of the Contractor and the Owner, a waiver to the estimated completion date will not be granted should the granting of such waiver harm any commitments made to the purchasers of Revolving Loan Fund Bonds issued by ADFA. Should a wavier be denied, the Owner must complete the project with its own funds or apply for an additional loan from the SRF program.

38. **ACCEPTANCE OF FINAL PAYMENT AS RELEASE**

The acceptance of the Contractor of final payment shall be and shall operate as a release to the Owner of all claims and all liability to the Contractor other than claims in stated amounts as may be specifically excepted by the Contractor for all things done or furnished in connection with this Work and for every act and neglect of the Owner and others relating to or arising out of this Work. Any payment, however, final or otherwise, shall not release the Contractor or its sureties from any obligations under the Contract Documents or the Performance and Payment Bonds.

39. **CLEANUP AND CORRECTIONS**

Where work on unit price items are substantially complete but lack clean-up and/or corrections ordered by the Engineer, amounts shall be deducted from unit prices in partial payment estimates to amply cover such clean-up and corrections.

40. **TAXES**

The Contractor will pay all sales, consumer, use and other similar taxes required by the laws of the place where the Work is performed.

41. **STATE TAX EXEMPTION**

This section only applies with projects receiving Clean Water Revolving Loan Funds; Drinking Water Revolving Loan Funds cannot receive this benefit. Except were applicable below, the Contractor will pay all sales, consumer, use and other similar taxes required by the laws of the place where the Work is performed. Machinery and equipment purchased by the Contractor for installation under this contract may be exempt from Arkansas Sales Tax. Arkansas Department of Finance and Administration Regulation GR-66 states that the gross proceeds derived from the sale of pollution control machinery and equipment are exempt from the tax if:

- i. The machinery and equipment is utilized, either directly or indirectly, by manufacturing or processing plants or facilities, or cities or towns in Arkansas to prevent or reduce air or water pollution or contamination which might otherwise result from the operation of the plant or facility; and,
- The machinery and equipment is required by Arkansas or federal law or regulations to be ii. installed and utilized to control pollution or contamination as evidenced by written documentation from the Arkansas Natural Resources Commission or the Environmental Protection Agency.
- Supplies and chemicals used by pollution control machinery and equipment are taxable.

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Should the contract involve the installation of pollution control machinery and equipment at a treatment facility, the Arkansas Division of Environmental Quality will furnish a written general certification to document that the machinery and equipment is required by Arkansas or federal law. A request for written documentation should be sent to the Arkansas Division of Environmental Quality's NPDES Permit Branch, Water Division.

To claim the exemption, the Contractor must provide the vendor with a copy of the documentation. The invoice must show that the purchase is for pollution control machinery and equipment under Arkansas Code Annotated 26-53-114. Most ancillary items necessary to install the equipment do not qualify for tax exemption. Any questions involving the definition of machinery and equipment should be directed to the Arkansas Department of Finance and Administration's Sales and Use Tax Section.

42. **OPERATION AND MAINTENANCE MANUAL**

- A. The Contractor shall furnish four copies of all operation, maintenance, repair and replacement manuals, and product data for all equipment supplied by the Contractor to the Engineer. The Engineer shall not certify payments requesting more than eighty percent of the Contract amount until such time as all operation, maintenance, repair and replacement manuals, and product data has been furnished by the Contractor to the Engineer.
- B. The Engineer is required to obtain approval from the Commission of the project operation and maintenance manual prior to the release of the final construction payment.

43. **CHANGES IN THE WORK**

- A. The Owner may at any time, as the need arises, order changes within the scope of the Work without invalidating the Agreement. If such changes increase or decrease the amount due under the Contract Documents, or in the time required for performance of the Work, an equitable adjustment shall be authorized by Change Order.
- B. All changes should be recorded and approved on a contract Change Order so that they may be included in partial payment estimates. The Commission must approve all contract Change Orders prior to commencing with the associated Work. When drafting Change Orders, the Engineer will use the SRF form provided by the Commission.
- C. All changes, which affect the cost of the construction of the Project, must be authorized by means of a contract Change Order. The contract Change Order will include extra work, work for which quantities have been altered from those shown in the bidding schedule, as well as decreases or increases in the quantities of installed units which are different than those shown in the bidding schedule because of final measurements.

In the case of defective specifications for which the Owner is responsible, the equitable adjustment shall include any increased cost the Contractor reasonably incurred in attempting to comply with those defective specifications.

Where justified, adjustments to the Contract Time specified in the Contract Documents shall be made in conjunction with changes in the work and with equitable adjustments in the contract price as described in these SRF Supplemental General Conditions. Where delays in project

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completion are not due to changes in the work or acts of the Owner, extensions to the contract time will be made only where there is sufficient documented evidence that delays in project completion were caused by events beyond the contractor's control.

The Owner shall promptly investigate the conditions and if found that conditions materially differ, the Owner will cause an increase or decrease in the Contractor's cost or the time required to perform any part of the work under this agreement as applicable.

The Contractor shall promptly, and before such conditions are disturbed, notify the Owner in when differing site conditions occur. Notification will come in the writing with:

- Subsurface or latent physical conditions at the site differing materially from those indicated in this agreement, or
- ii. Unknown physical conditions at the site, of an unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in this agreement.

No claim of the Contractor for increased cost or time due to differing site conditions shall be allowed unless the Contractor has given a written notice of the differing site conditions within thirty days of the discovery of such conditions.

- D. The Contractor shall document the necessity of all claims for additional cost and time in writing and shall provide detailed cost and time estimates to the Engineer for all proposed contract changes. The Engineer shall review the supporting documents and estimates provided by the Contractor for reasonableness and shall as necessary develop independent cost estimates of the proposed contract changes to assure that the cost of the proposed change is fair and reasonable.
- E. The Owner shall provide sufficient information such as a description and justification for the change, drawings, the Contractor's proposal and other supporting documentation to the Commission for review. The Owner shall promptly notify the Commission in writing of events or proposed changes which may substantially alter the design and scope of the Project, alter the type of treatment provided or the location, size, capacity, or quality of any major item of equipment or treatment unit, or exceed the amount of funds available to complete the project.
- F. The Contract Price may be changed only by a Change Order. The value of any Work covered by a Change Order or of any claim for increase or decrease in the Contract Price shall be determined by one or more of the following methods in the order of precedence listed below:
 - i. Unit prices previously approved.
 - ii. An agreed lump sum.
- G. Should project changes increase the amount of funds necessary to complete the Project beyond the initial loan amount, the Owner must fund the project changes or apply to the Commission for monies to cover the cost overruns.
- H. The Engineer, also, may at any time, by issuing a Field Order, make changes in the details of the Work. The Contractor shall proceed with the performance of any changes in the Work so ordered by the Engineer unless the Contractor believes that such Field Order entitles the Contractor to change in Contract Price or Time, or both, in which event the Contractor shall give the Engineer written notice thereof within seven days after the receipt of the ordered change. Thereafter the

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Contractor shall document the basis for the change in Contract Price or Time within thirty days. The Contractor shall not execute such changes pending the receipt of an executed Change Order or further instruction from the Owner.

44. SUBSURFACE CONDITIONS

- A. The Contractor shall promptly, and before such conditions are disturbed, except in the event of an emergency, notify the Owner by Written Notice of:
 - Subsurface or latent physical conditions at the site differing materially from those indicated in the Contract Documents; or
 - ii. Unknown physical conditions at the site, of an unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in Work of the character provided for in the Contract Documents.
- B. The Owner shall promptly investigate the conditions, and if it is found that such conditions do so materially differ and cause an increase or decrease in the cost of, or in the time required for, performance of the Work, an equitable adjustment shall be made and the Contract Documents shall be modified by a Change Order. Any claim of the Contractor for adjustment hereunder shall not be allowed unless the required Written Notice has been given; provided that the Owner may, if the Owner determines the facts so justify, consider and adjust any such claims asserted before the date of final payment.

CORRECTION OF WORK 45.

- A. The Contractor shall promptly remove from the premises all Work rejected by the Engineer for failure to comply with the Contract Documents, whether incorporated in the construction or not, and the Contractor shall promptly replace and re-execute the Work in accordance with the Contract Documents and without expense to the Owner and shall bear the expense of making good all Work of other Contractors destroyed or damaged by such removal or replacement.
- B. All removal and replacement Work shall be done at the Contractor's expense. If the Contractor does not take action to remove such rejected Work within ten days after receipt of Written Notice, the Owner may remove such Work and store the materials at the expense of the Contractor.

46. **SURVEYS, PERMITS, REGULATIONS**

- A. The Owner, through the Engineer, shall furnish all boundary surveys and establish all base lines for locating the principal component parts of the Work together with a suitable number of bench marks adjacent to the Work as shown in the Contract Documents. From the information provided by the Engineer unless otherwise specified in the Contract Documents, the Contractor shall develop and make all detail surveys needed for construction such as slope stakes, batter boards, stakes for pipe locations and other working points, lines, elevations and cut sheets.
- B. The Contractor shall carefully preserve bench marks, reference points and stakes and, in case of willful or careless destruction, shall be charged with the resulting expense and shall be responsible for any mistake that may be caused by their unnecessary loss or disturbance.
- C. Permits and licenses of a temporary nature necessary for the prosecution of the Work shall be secured and paid for by the Contractor unless otherwise stated in the SRF Supplemental General Conditions. Permits, licenses and easements for permanent structures or permanent changes in existing facilities shall be secured and paid for by the Owner, unless otherwise specified. The

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Contractor shall give all notices and comply with all laws, ordinances, rules and regulations bearing on the conduct of the Work as drawn and specified. If the Contractor observes that the Contract Documents are at variance therewith, the Contractor shall promptly notify the Engineer in writing, and any necessary changes shall be adjusted as provided in Section 42, CHANGES IN THE WORK.

47. TIME FOR COMPLETION AND LIQUIDATED DAMAGES

- A. The date of beginning and the time for completion of the Work are essential conditions of the Contract Documents and the Work embraced shall be commenced on a date specified in the Notice to Proceed.
- B. The Contractor will proceed with the Work at such rate of progress to insure full completion within the Contract Time. It is expressly understood and agreed, by and between the Contractor and the Owner that the Contract Time for the completion of the Work described herein is a reasonable time, taking into consideration the average climatic and economic conditions and other factors prevailing in the locality of the Work.
- C. If the Contractor shall fail to complete the Work within the Contract Time, or extension of time granted by the Owner, then the Contractor will pay to the Owner the amount for liquidated damages as specified in the Bid for each calendar day that the Contractor shall be in default after the time stipulated in the Contract Documents.
- D. The Contractor shall not be charged with liquidated damages or any excess cost when the delay in completion of the Work is due to the following and the Contractor has promptly given Written Notice of such delay to the Owner or Engineer.
 - To any preference, priority or allocation order duly issued by the Owner. i.
 - ii. To unforeseeable causes beyond the control and without the fault or negligence of the Contractor, including but not restricted to, acts of God, or of the public enemy, acts of the Owner, acts of another Contractor in the performance of a contract with the Owner, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, and abnormal and unforeseeable weather; and
 - iii. To any delays of Subcontractors occasioned by any of the causes specified in paragraphs (i.) and (ii) of this article.
- E. Where justified, adjustments to the Contract Time specified in the Contract Documents shall be made in conjunction with changes in the work and with equitable adjustments in the contract price as described in these SRF Supplemental General Conditions. Where delays in project completion are not due to changes in the work or acts of the Owner, extensions to the contract time will be made only where there is sufficient documented evidence that delays in project completion were caused by events beyond the Contractor's control. Requests for time extensions by the Contractor must be submitted with the pay estimate for the month that the lost days are being sought.

F. Notification procedures.

At eighty percent completion of project construction time the Engineer will contact in writing the Surety Company, the Contractor, the Owner, and the Funding Agencies. The letter will contain contract specific language concerning time left in the contract and work needed to

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> be completed. If the Engineer deems the project to be on time for completion then they may contact the Owner and the Funding Agency via email requesting a relief from this clause.

- When contract time has been completed and the project is not substantially complete, the Engineer will notify in writing the Surety Company, the Contractor, the Owner, and the Funding Agencies. The letter will notify all parties that Liquidated Damages will be assessed from this point forward until the project has been completed.
- If paragraph ii. above is enacted, the Engineer will contact all parties in writing when the iii. project is complete.

48. SUSPENSION OF WORK, TERMINATION, AND DELAY

- A. The Owner may suspend the Work or any portion thereof for a period of not more than ninety days or such further time as agreed upon by the Contractor, by Written Notice to the Contractor and the Engineer, which shall fix the date on which Work shall be resumed. The Contractor will be allowed an increase in the Contract Price or an extension of the Contract Time, or both, directly attributable to any suspension.
- B. If the Contractor is adjudged to be bankrupt or insolvent, or makes a general assignment for the benefit of his creditors, or if a trustee or receiver is appointed for the Contractor or for any of its property, or if the Contractor files a petition to take advantage of any debtor's act, or to reorganize under the bankruptcy or applicable laws, or repeatedly fails to supply sufficient skilled workmen or suitable materials or equipment, or repeatedly fails to make prompt payments to Subcontractors or for labor, materials, or equipment or disregards laws, ordinances, rules, regulations or orders of any public body having jurisdiction of the Work or disregards the authority of the Engineer, or otherwise violates any provision of the Contract Documents, then the Owner may, without prejudice to any other right or remedy and after giving the Contractor and its surety a minimum of ten days from delivery of a Written Notice, terminate the services of the Contractor and take possession of the Project and of all materials, equipment, tools, construction equipment and machinery thereon owned by the Contractor, and finish the Work by whatever method the Owner may deem expedient. In such case the Contractor shall not be entitled to receive any further payment until the Work is finished. If the unpaid balance of the Contract Price exceeds the direct and indirect costs of completing the Project, including compensation for additional professional services, such excess shall be paid to the Contractor. If such costs exceed such unpaid balance, the Contractor will pay the difference to the Owner. Such costs incurred by the Owner will be determined by the Engineer and incorporated in a Change Order.
- C. Where the Contractor's services have been so terminated by the Owner, said termination shall not affect any right of the Owner against the Contractor then existing or which may thereafter accrue. Any retention or payment of monies by the Owner due the Contractor will not release the Contractor from compliance with the Contract Documents. Upon receipt of a termination action the Contractor shall promptly discontinue all affected work (unless the notice directs otherwise), and deliver or otherwise make available to the Owner all data, drawings, specifications, reports, estimates, summaries and such other information and materials as may have been accumulated by the Contractor in performing this agreement, whether completed or in process.
- D. After ten days from delivery of a Written Notice to the Contractor and the Engineer, the Owner may, without cause and with prejudice to any other right or remedy, elect to abandon the Project and terminate the Contract. In such case the Contractor shall be paid for all Work executed and any expense sustained plus reasonable profit.

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E. If, through no act or fault of the Contractor, the Work is suspended for a period of more than ninety days by the Owner or under an order of the court or other public authority, or the Engineer fails to act on any request for payment within thirty days after it is submitted, or the Owner fails to pay the Contractor substantially the sum approved by the Engineer or awarded by arbitrators within thirty days of its approval and presentation, then the Contractor may, after ten days from delivery of a Written Notice to the Owner and the Engineer terminate the Contract and recover from the Owner payment for all Work executed and all expenses sustained. In addition and in lieu of terminating the Contract, if the Engineer has failed to act on a request for payment or if the Owner has failed to make any payment as aforesaid, the Contractor may upon ten days written notice to the Owner and the Engineer stop the Work until paid all amounts then due, in which event and upon resumption of the Work Change Orders shall be issued for adjusting the Contract Price or extending the Contract Time or both to compensate for the costs and delays attributable to the stoppage of the Work.

F. If the performance of all or any portion of the Work is suspended, delayed, or interrupted as a result of a failure of the Owner or Engineer to act within the time specified in the Contract Documents, or if no time is specified, within a reasonable time, an adjustment in the Contract Price or an extension of the Contract Time, or both, shall be made by Change Order to compensate the Contractor for the costs and delays necessarily caused by the failure of the Owner or Engineer.

49. AS-BUILT DRAWINGS

To assure quality control, the Contractor and the Owner's Inspector shall each maintain a complete set of Plans and Specifications and approved shop drawings at the construction site. In addition, one set of Plans shall be maintained at the site solely for the purpose of marking authorized changes in the plans as the work progresses. These marked up drawings shall be used in the preparation of as-built drawings following project completion and shall be maintained in current condition at all times.

50. GUARANTEE

The Contractor shall guarantee all materials and equipment furnished and Work performed for a period of one year from the date of Substantial Completion. The Contractor warrants and guarantees for a period of one year from the date of Substantial Completion of the system that the completed system is free from all defects due to faulty materials or workmanship and the Contractor shall promptly make such corrections as may be necessary by reason of such defects including the repairs of any damage to other parts of the system resulting from such defects. The Owner will give notice of observed defects with reasonable promptness. In the event that the Contractor should fail to make such repairs, adjustments, or other Work that may be made necessary by such defects, the Owner may do so and charge the Contractor the cost thereby incurred. The Performance Bond shall remain in full force and effect through the guarantee period.

51. PATENTS

The Contractor shall pay all applicable royalties and license fees, and shall defend all suits or claims for infringement of any patent rights and save the Owner harmless from loss on account thereof, except that the Owner shall be responsible for any such loss when a particular process, design, or product of a particular manufacturer or manufacturers is specified, however, if the Contractor has reason to believe that the design, process or product specified is an infringement of a patent, the

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Contractor shall be responsible for such loss unless the Contractor promptly gives such information to the Engineer.

52. CONFLICTS OF INTEREST

No official of the Owner who is authorized in such capacity and on behalf of the "Owner" to negotiate, make, accept or approve, or to take part in negotiating, making, accepting, or approving any architectural, engineering, inspection, construction or material supply contract or any subcontract in connection with the construction of the project, shall become directly or indirectly interested personally in this contract or in any part thereof. No officer, employee, architect, attorney, engineer or inspector of or for the "Owner" who is authorized in such capacity and on behalf of the "Owner" who is in any legislative, executive, supervisory, or other similar functions in connection with the construction of the project, shall become directly or indirectly interested personally in this contract or in any part thereof, any material supply contract, subcontract, insurance contract, or any other contract pertaining to the project.

53. ARBITRATION BY MUTUAL AGREEMENT

- A. All claims, disputes, and other matters in question arising out of, or relating to, the Contract Documents or the breach thereof, except for claims which have been waived by making an acceptance of final payment as provided by Section 36 and 37, may be decided by arbitration if the parties mutually agree. Any agreement to arbitrate shall be specifically enforceable under the prevailing arbitration law. The award rendered by the arbitrators shall be final, and judgment may be entered upon it in any court having jurisdiction thereof.
- B. Notice of the request for arbitration shall be filed in writing with the other party to the Contract Documents and a copy shall be filed with the Engineer. Request for arbitration shall in no event be made on any claim, dispute, or other matter in question which would be barred by the applicable statute of limitations.
- C. The Contractor shall diligently pursue the completion of the work during any arbitration or court proceeding unless the work is suspended by the Owner or the contract terminated under the provisions of the Contract Documents.

54. **GRATUITIES**

If the Owner finds after a notice and hearing that the Contractor or any of the Contractor's agents or representatives offered or gave gratuities (in the form of entertainment, gifts or otherwise) to any official, employee or agent of the Owner, or the State, in an attempt to secure an agreement or favorable treatment in awarding, amending or making any determinations related to the performance of this agreement, the Owner may, by written notice to the Contractor, terminate this agreement. The Owner may also pursue other rights and remedies that the law or this agreement provides. However, the existence of the facts on which the Owner bases such findings shall be at issue and may be reviewed in proceedings under the Disputes and Remedies section of these SRF Supplemental General Conditions.

55. PROHIBITION ON CERTAIN TELECOMMUNICATION AND VIDEO SURVEILLANCE SERVICES OR **EQUIPMENT**

The Contractor and all subcontractors awarded subcontracts must comply with regulations at 2 CFR 200.216, Prohibition on certain telecommunication and video surveillance services or equipment, implementing section 889 of Public Law 115-232. The regulation prohibits the use of

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federal funds to procure, enter into, extend, or renew contracts, or obtain equipment, systems, or services that use "covered telecommunications equipment or services" identified in the regulation as a substantial or essential component of any system, or as critical technology as part of any system. The Contractor hereby represents and warrants to and for the benefit of the Owner and the Commission that: (a) the Contractor has reviewed and understands the prohibition on certain telecommunication and video surveillance services, or equipment (the "Prohibition Requirement") and (b) the Contractor will provide verified information, certification or assurance of compliance with this paragraph, or information necessary to support the Prohibition Requirement. Notwithstanding any other provision of this Agreement, any failure to comply with this paragraph by the Contractor shall permit the Owner or Commission to recover as damages against the Contractor for any loss, expense, or cost including, without limitation, attorney's fees, incurred by the Owner or Commission resulting from any such failure including, without limitation, any impairment or loss of funding, whether in whole or in part, from the Commission or any damages owed to the Commission by the Owner. While the Contractor has no direct contractual privity with the Commission, the Owner and the Contractor agree that the Commission is a third-party beneficiary and neither this paragraph nor any other provision of this Agreement necessary to give this paragraph force or effect, shall be amended or waived without the prior written consent of the Commission. A copy of the EPA Memorandum implementing the Prohibition Requirement is attached as Appendix E to these SRF Supplemental General Conditions.

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Appendix A.

United States Environmental Protection Agency Washington, DC 20460

> **Labor Standards Provisions for Federally Assisted Contracts**

Davis-Bacon and Related Acts

ATTACHMENT 1

CWSRF: The recipient agrees to include in all agreements to provide assistance for the construction of treatment works carried out in whole or in part with such assistance made available by a State water pollution control revolving fund as authorized by title VI of the Federal Water Pollution Control Act (33 U.S.C. 1381 et seg.), or with such assistance made available under section 205(m) of that Act (33 U.S.C. 1285(m)), or both, a term and condition requiring compliance with the requirements of section 513 of that Act (33 U.S.C. 1372) in all procurement contracts and sub-grants, and require that loan recipients, procurement contractors and sub-grantees include such a term and condition in subcontracts and other lower tiered transactions. All contracts and subcontracts for the construction of treatment works carried out in whole or in part with assistance made available as stated herein shall insert in full in any contract in excess of \$2,000 the contract clauses as attached hereto entitled "Wage Rate Requirements Under The Consolidated and Further Continuing Appropriations Act, 2013 (P.L. 113-6)." This term and condition applies to all agreements to provide assistance under the authorities referenced herein, whether in the form of a loan, bond purchase, grant, or any other vehicle to provide financing for a project, where such agreements are executed on or after October 30, 2009.

DWSRF: The recipient agrees to include in all agreements to provide assistance for any construction project carried out in whole or in part with such assistance made available by a drinking water revolving loan fund as authorized by section 1452 of the Safe Drinking Water Act (42 U.S.C. 300j-12), a term and condition requiring compliance with the requirements of section 1450(e) of the Safe Drinking Water Act (42 U.S.C.300j-9(e)) in all procurement contracts and sub-grants, and require that loan recipients, procurement contractors and sub-grantees include such a term and condition in subcontracts and other lower tiered transactions All contracts and subcontracts for any construction project carried out in whole or in part with assistance made available as stated herein shall insert in full in any contract in excess of \$2,000 the contract clauses as attached hereto entitled "Wage Rate Requirements Under The Consolidated and Further Continuing Appropriations Act, 2013 (P.L. 113-6)." This term and condition applies to all agreements to provide assistance under the authorities referenced herein, whether in the form of a loan, bond purchase, grant, or any other vehicle to provide financing for a project, where such agreements are executed on or after October 30, 2009.

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ATTACHMENT 2

Wage Rate Requirements Under The Consolidated and Further Continuing Appropriations Act, 2013 (P.L. 113-6)

With respect to the Clean Water and Safe Drinking Water State Revolving Funds, EPA provides capitalization grants to each State which in turn provides subgrants or loans to eligible entities within the State. Typically, the subrecipients are municipal or other local governmental entities that manage the funds. For these types of recipients, the provisions set forth under Roman Numeral I, below, shall apply. Although EPA and the State remain responsible for ensuring subrecipients' compliance with the wage rate requirements set forth herein, those subrecipients shall have the primary responsibility to maintain payroll records as described in Section 3(ii)(A), below and for compliance as described in Section I-5.

Occasionally, the subrecipient may be a private for profit or not for profit entity. For these types of recipients, the provisions set forth in Roman Numeral II, below, shall apply. Although EPA and the State remain responsible for ensuring subrecipients' compliance with the wage rate requirements set forth herein, those subrecipients shall have the primary responsibility to maintain payroll records as described in Section II-3(ii)(A), below and for compliance as described in Section II-5.

I. Requirements Under The Consolidated and Further Continuing Appropriations Act, 2013 (P.L. 113-6) for Subrecipients That Are Governmental Entities:

The following terms and conditions specify how recipients will assist EPA in meeting its Davis-Bacon (DB) responsibilities when DB applies to EPA awards of financial assistance under the FY 2013 Continuing Resolution with respect to State recipients and subrecipients that are governmental entities. If a subrecipient has questions regarding when DB applies, obtaining the correct DB wage determinations, DB provisions, or compliance monitoring, it may contact the State recipient. If a State recipient needs guidance, the recipient may contact Lorraine Fleury at fleury.lorraine@epa.gov or at 215-814-2341 of EPA, Region III Grants and Audit Management Branch for guidance. for guidance. The recipient or subrecipient may also obtain additional guidance from DOL's web site at http://www.dol.gov/whd/

Applicability of the Davis-Bacon (DB) prevailing wage requirements.
 Under the FY 2013 Continuing Resolution, DB prevailing wage requirements apply to the construction, alteration, and repair of treatment works carried out in whole or in part with assistance made available by a State water pollution control revolving fund and to any construction project carried out in whole or in part by assistance made available by a drinking water treatment revolving loan fund. If a subrecipient encounters a unique situation at a site that presents uncertainties regarding DB applicability, the subrecipient must discuss the situation with the recipient State before authorizing work on that site.

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2. Obtaining Wage Determinations.

(a) Subrecipients shall obtain the wage determination for the locality in which a covered activity subject to DB will take place prior to issuing requests for bids, proposals, quotes or other methods for soliciting contracts (solicitation) for activities subject to DB. These wage determinations shall be incorporated into solicitations and any subsequent contracts. Prime contracts must contain a provision requiring that subcontractors follow the wage determination incorporated into the prime contract.

- (i) While the solicitation remains open, the subrecipient shall monitor www.wdol.gov weekly to ensure that the wage determination contained in the solicitation remains current. The subrecipients shall amend the solicitation if DOL issues a modification more than 10 days prior to the closing date (i.e. bid opening) for the solicitation. If DOL modifies or supersedes the applicable wage determination less than 10 days prior to the closing date, the subrecipients may request a finding from the State recipient that there is not a reasonable time to notify interested contractors of the modification of the wage determination. The State recipient will provide a report of its findings to the subrecipient.
- (ii) If the subrecipient does not award the contract within 90 days of the closure of the solicitation, any modifications or supersedes DOL makes to the wage determination contained in the solicitation shall be effective unless the State recipient, at the request of the subrecipient, obtains an extension of the 90 day period from DOL pursuant to 29 CFR 1.6(c)(3)(iv). The subrecipient shall monitor www.wdol.gov on a weekly basis if it does not award the contract within 90 days of closure of the solicitation to ensure that wage determinations contained in the solicitation remain current.
- (b) If the subrecipient carries out activity subject to DB by issuing a task order, work assignment or similar instrument to an existing contractor (ordering instrument) rather than by publishing a solicitation, the subrecipient shall insert the appropriate DOL wage determination from www.wdol.gov into the ordering instrument.
- (c) Subrecipients shall review all subcontracts subject to DB entered into by prime contractors to verify that the prime contractor has required its subcontractors to include the applicable wage determinations.
- (d) As provided in 29 CFR 1.6(f), DOL may issue a revised wage determination applicable to a subrecipient's contract after the award of a contract or the issuance of an ordering instrument if DOL determines that the subrecipient has failed to incorporate a wage determination or has used a wage determination that clearly does not apply to the contract or ordering instrument. If this occurs, the subrecipient shall either terminate the contract or ordering instrument and issue a revised solicitation or ordering instrument or incorporate DOL's wage determination retroactive to the beginning of the contract or ordering instrument by change order. The subrecipient's contractor must be compensated for any increases in wages resulting from the use of DOL's revised wage determination.

3. Contract and Subcontract provisions.

(a) The Recipient shall insure that the subrecipient(s) shall insert in full in any contract in excess of \$2,000 which is entered into for the actual construction, alteration and/or repair, including painting and decorating, of a treatment work under the CWSRF or a construction project under the DWSRF financed in whole or in part from Federal funds or in accordance with guarantees of a Federal agency or financed from funds obtained by pledge of any contract of a Federal agency to

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make a loan, grant or annual contribution (except where a different meaning is expressly indicated), and which is subject to the labor standards provisions of any of the acts listed in § 5.1 or the FY 2013 Continuing Resolution, the following clauses:

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(1) Minimum wages.

All laborers and mechanics employed or working upon the site of the work will be paid (i) unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph (a)(1)(iv) of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in § 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided that the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph (a)(1)(ii) of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

Subrecipients may obtain wage determinations from the U.S. Department of Labor's web site, www.dol.gov.

- (ii) (A) The subrecipient(s), on behalf of EPA, shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The State award official shall approve a request for an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:
 - (1) The work to be performed by the classification requested is not performed by a classification in the wage determination; and
 - (2) The classification is utilized in the area by the construction industry; and
 - (3) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

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> (B) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the subrecipient(s) agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), documentation of the action taken and the request, including the local wage determination shall be sent by the subrecipient (s) to the State award official. The State award official will transmit the request, to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210 and to the EPA DB Regional Coordinator concurrently. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification request within 30 days of receipt and so advise the State award official or will notify the State award official within the 30-day period that additional time is necessary.

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- (C) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the subrecipient(s) do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the award official shall refer the request and the local wage determination, including the views of all interested parties and the recommendation of the State award official, to the Administrator for determination. The request shall be sent to the EPA DB Regional Coordinator concurrently. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt of the request and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.
- (D) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs (a)(1)(ii)(B) or (C) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.
- (iii) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.
- If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

(2) Withholding.

The subrecipient(s), shall upon written request of the EPA Award Official or an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as

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> may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the (Agency) may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

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(3) Payrolls and basic records.

- Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.
- (ii) (A) The contractor shall submit weekly, for each week in which any contract work is performed, a copy of all payrolls to the subrecipient, that is, the entity that receives the sub-grant or loan from the State capitalization grant recipient. Such documentation shall be available on request of the State recipient or EPA. As to each payroll copy received, the subrecipient shall provide written confirmation in a form satisfactory to the State indicating whether or not the project is in compliance with the requirements of 29 CFR 5.5(a)(1) based on the most recent payroll copies for the specified week. The payrolls shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on the weekly payrolls. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available purpose from the Wage and Hour Division Web http://www.dol.gov/whd/forms/wh347instr.htm or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the subrecipient(s) for transmission to the State or EPA if requested by EPA, the State, the

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contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the subrecipient(s).

- (B) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:
 - (1) That the payroll for the payroll period contains the information required to be provided under § 5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under § 5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;
 - (2) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;
 - (3) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.
- (C) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph (a)(3)(ii)(B) of this section.
- (D) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.
- (iii) The contractor or subcontractor shall make the records required under paragraph (a)(3)(i) of this section available for inspection, copying, or transcription by authorized representatives of the State, EPA or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the Federal agency or State may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.
- (4) Apprentices and trainees,
 - (i) Apprentices.
 - Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed -

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(i) pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or

- (ii) if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.
- (b) The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program.
- Any worker listed on a payroll at an apprentice wage rate, who is not registered (c) or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.
- (d) Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination.
- (e) Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.
- (f) In the event the Office of Apprenticeship Training, Employer and Labor Services (OATELS), or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(ii) Trainees.

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less (a) than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer, and Labor Services (OATELS). The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by OATELS.

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> (b) Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed in the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate in the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the OATELS shall be paid not less than the applicable wage rate in the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate in the wage determination for the work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined

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(c) In the event OATELS withdraws approval of a training program, the Contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

rate for the work performed until an acceptable program is approved.

- Equal employment opportunity. The utilization of apprentices, trainees and (iii) journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended and 29 CFR part 30.
- (5) Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.
- (6) Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses contained in 29 CFR 5.5(a)(1) through (10) and such other clauses as the EPA determines may by appropriate, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.
- (7) Contract termination; debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.
- (8) Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

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(9) Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and Subrecipient(s), State, EPA, the U.S. Department of Labor, or the employees or their representatives.

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(10)Certification of eligibility.

- By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).
- (ii) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).
- (iii) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.
- 4. Contract Provision for Contracts in Excess of \$100,000.
 - (a) Contract Work Hours and Safety Standards Act. The subrecipient shall insert the following clauses set forth in paragraphs (a)(1), (2), (3), and (4) of this section in full in any contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by Item 3, above or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.
 - (1) Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.
 - (2) Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (a)(1) of this section the contractor and any subcontractor responsible therefore shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (a)(1) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (a)(1) of this section.
 - (3) Withholding for unpaid wages and liquidated damages. The subrecipient, upon written request of the EPA Award Official or an authorized representative of the Department of Labor,

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shall withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (b)(2) of this section.

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- (4) Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (a)(1) through (4) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (a)(1) through (4) of this section.
- (b) In addition to the clauses contained in Item 3, above, in any contract subject only to the Contract Work Hours and Safety Standards Act and not to any of the other statutes cited in 29 CFR 5.1, the Subrecipient shall insert a clause requiring that the contractor or subcontractor shall maintain payrolls and basic payroll records during the course of the work and shall preserve them for a period of three years from the completion of the contract for all laborers and mechanics, including guards and watchmen, working on the contract. Such records shall contain the name and address of each such employee, social security number, correct classifications, hourly rates of wages paid, daily and weekly number of hours worked, deductions made, and actual wages paid. Further, the Subrecipient shall insert in any such contract a clause providing hat the records to be maintained under this paragraph shall be made available by the contractor or subcontractor for inspection, copying, or transcription by authorized representatives of the (write the name of agency) and the Department of Labor, and the contractor or subcontractor will permit such representatives to interview employees during working hours on the job.

5. Compliance Verification

- (a) The subrecipient shall periodically interview a sufficient number of employees entitled to DB prevailing wages (covered employees) to verify that contractors or subcontractors are paying the appropriate wage rates. As provided in 29 CFR 5.6(a)(6), all interviews must be conducted in confidence. The subrecipient must use Standard Form 1445 (SF 1445) or equivalent documentation to memorialize the interviews. Copies of the SF 1445 are available from EPA on request.
- (b) The subrecipient shall establish and follow an interview schedule based on its assessment of the risks of noncompliance with DB posed by contractors or subcontractors and the duration of the contract or subcontract. Subrecipients must conduct more frequent interviews if the initial interviews or other information indicated that there is a risk that the contractor or subcontractor is not complying with DB.
 - Subrecipients shall immediately conduct interviews in response to an alleged violation of the prevailing wage requirements. All interviews shall be conducted in confidence."
- (c) The subrecipient shall periodically conduct spot checks of a representative sample of weekly payroll data to verify that contractors or subcontractors are paying the appropriate wage rates. The subrecipient shall establish and follow a spot check schedule based on its assessment of the

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risks of noncompliance with DB posed by contractors or subcontractors and the duration of the contract or subcontract. At a minimum, if practicable, the subrecipient should spot check payroll data within two weeks of each contractor or subcontractor's submission of its initial payroll data and two weeks prior to the completion date the contract or subcontract . Subrecipients must conduct more frequent spot checks if the initial spot check or other information indicates that there is a risk that the contractor or subcontractor is not complying with DB. In addition, during the examinations the subrecipient shall verify evidence of fringe benefit plans and payments there under by contractors and subcontractors who claim credit for fringe benefit contributions.

- (d) The subrecipient shall periodically review contractors and subcontractors use of apprentices and trainees to verify registration and certification with respect to apprenticeship and training programs approved by either the U.S Department of Labor or a state, as appropriate, and that contractors and subcontractors are not using disproportionate numbers of, laborers, trainees and apprentices. These reviews shall be conducted in accordance with the schedules for spot checks and interviews described in Item 5(b) and (c) above.
- (e) Subrecipients must immediately report potential violations of the DB prevailing wage requirements to the EPA DB contact listed above and to the appropriate DOL Wage and Hour District Office listed at http://www.dol.gov/contacts/whd/america2.htm.

II. Requirements Under The Consolidated and Further Continuing Appropriations Act, 2013 (P.L. 113-6) for Subrecipients That Are Not Governmental Entities:

The following terms and conditions specify how recipients will assist EPA in meeting its DB responsibilities when DB applies to EPA awards of financial assistance under the FY2013 Continuing Resolution with respect to subrecipients that are not governmental entities. If a subrecipient has questions regarding when DB applies, obtaining the correct DB wage determinations, DB provisions, or compliance monitoring, it may contact the State recipient for guidance. If a State recipient needs guidance, the recipient may contact Julie Milazzo at Milazzo.julie@epa.gov or at 415-972-3687, EPA Grants Management Office for guidance. The recipient or subrecipient may also obtain additional guidance from DOL's web site at http://www.dol.gov/whd/

Under these terms and conditions, the subrecipient must submit its proposed DB wage determinations to the State recipient for approval prior to including the wage determination in any solicitation, contract task orders, work assignments, or similar instruments to existing contractors.

- Applicability of the Davis- Bacon (DB) prevailing wage requirements.
 Under the FY 2013 Continuing Resolution, DB prevailing wage requirements apply to the construction, alteration, and repair of treatment works carried out in whole or in part with assistance made available by a State water pollution control revolving fund and to any construction project carried out in whole or in part by assistance made available by a drinking water treatment revolving loan fund. If a subrecipient encounters a unique situation at a site that presents uncertainties regarding DB applicability, the subrecipient must discuss the situation with the recipient State before authorizing work on that site.
- 2. Obtaining Wage Determinations.
 - (a) Subrecipients must obtain proposed wage determinations for specific localities at <u>www.wdol.gov</u>. After the Subrecipient obtains its proposed wage determination, it must submit the wage determination to the Arkansas Natural Resources Commission's Water Resource Development

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> Division for approval prior to inserting the wage determination into a solicitation, contract or issuing task orders, work assignments or similar instruments to existing contractors (ordering instruments unless subsequently directed otherwise by the State recipient Award Official.

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- (b) Subrecipients shall obtain the wage determination for the locality in which a covered activity subject to DB will take place prior to issuing requests for bids, proposals, quotes or other methods for soliciting contracts (solicitation) for activities subject to DB. These wage determinations shall be incorporated into solicitations and any subsequent contracts. Prime contracts must contain a provision requiring that subcontractors follow the wage determination incorporated into the prime contract.
 - (i) While the solicitation remains open, the subrecipient shall monitor www.wdol.gov. on a weekly basis to ensure that the wage determination contained in the solicitation remains current. The subrecipients shall amend the solicitation if DOL issues a modification more than 10 days prior to the closing date (i.e. bid opening) for the solicitation. If DOL modifies or supersedes the applicable wage determination less than 10 days prior to the closing date, the subrecipients may request a finding from the State recipient that there is not a reasonable time to notify interested contractors of the modification of the wage determination. The State recipient will provide a report of its findings to the subrecipient.
 - (ii) If the subrecipient does not award the contract within 90 days of the closure of the solicitation, any modifications or supersedes DOL makes to the wage determination contained in the solicitation shall be effective unless the State recipient, at the request of the subrecipient, obtains an extension of the 90 day period from DOL pursuant to 29 CFR 1.6(c)(3)(iv). The subrecipient shall monitor www.wdol.gov on a weekly basis if it does not award the contract within 90 days of closure of the solicitation to ensure that wage determinations contained in the solicitation remain current.
- (c) If the subrecipient carries out activity subject to DB by issuing a task order, work assignment or similar instrument to an existing contractor (ordering instrument) rather than by publishing a solicitation, the subrecipient shall insert the appropriate DOL wage determination from www.wdol.gov into the ordering instrument.
- (d) Subrecipients shall review all subcontracts subject to DB entered into by prime contractors to verify that the prime contractor has required its subcontractors to include the applicable wage determinations.
- (e) As provided in 29 CFR 1.6(f), DOL may issue a revised wage determination applicable to a subrecipient's contract after the award of a contract or the issuance of an ordering instrument if DOL determines that the subrecipient has failed to incorporate a wage determination or has used a wage determination that clearly does not apply to the contract or ordering instrument. If this occurs, the subrecipient shall either terminate the contract or ordering instrument and issue a revised solicitation or ordering instrument or incorporate DOL's wage determination retroactive to the beginning of the contract or ordering instrument by change order. The subrecipient's contractor must be compensated for any increases in wages resulting from the use of DOL's revised wage determination.
- 3. Contract and Subcontract provisions.

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(a) The Recipient shall insure that the subrecipient(s) shall insert in full in any contract in excess of \$2,000 which is entered into for the actual construction, alteration and/or repair, including painting and decorating, of a treatment work under the CWSRF or a construction project under the DWSRF financed in whole or in part from Federal funds or in accordance with guarantees of a Federal agency or financed from funds obtained by pledge of any contract of a Federal agency to make a loan, grant or annual contribution (except where a different meaning is expressly indicated), and which is subject to the labor standards provisions of any of the acts listed in § 5.1 or the FY 2013 Continuing Resolution, the following clauses:

(1) Minimum Wages.

(i) All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph (a)(1)(iv) of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in § 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, that the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph (a)(1)(ii) of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

Subrecipients may obtain wage determinations from the U.S. Department of Labor's web site, www.dol.gov.

(ii) (A) The subrecipient(s), on behalf of EPA, shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The State award official shall approve a request for an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

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(1) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

- (2) The classification is utilized in the area by the construction industry; and
- (3) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.
- (B) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the subrecipient(s) agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), documentation of the action taken and the request, including the local wage determination shall be sent by the subrecipient(s) to the State award official. The State award official will transmit the report, to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210 and to the EPA DB Regional Coordinator concurrently. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification request within 30 days of receipt and so advise the State award official or will notify the State award official within the 30-day period that additional time is necessary.
- (C) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the and the subrecipient(s) do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the award official shall refer the request, and the local wage determination, including the views of all interested parties and the recommendation of the State award official, to the Administrator for determination. The request shall be sent to the EPA Regional Coordinator concurrently. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt of the request and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.
- (D) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs (a)(1)(ii)(B) or (C) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.
- (iii) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.
- (iv) If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

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(2) Withholding. The subrecipient(s) shall upon written request of the EPA Award Official or an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the (Agency) may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

(3) Payrolls and basic records.

- (i) Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.
- (ii) (A) The contractor shall submit weekly, for each week in which any contract work is performed, a copy of all payrolls to the subrecipient, that is, the entity that receives the sub-grant or loan from the State capitalization grant recipient. Such documentation shall be available on request of the State recipient or EPA. As to each payroll copy received, the subrecipient shall provide written confirmation in a form satisfactory to the State indicating whether or not the project is in compliance with the requirements of 29 CFR 5.5(a)(1) based on the most recent payroll copies for the specified week. The payrolls shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on the weekly payrolls. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from

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the Wage and Hour Division Web site http://www.dol.gov/whd/forms/wh347instr.htm or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the subrecipient(s) for transmission to the State or EPA if requested by EPA, the State, the contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the subrecipient(s).

- (B) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:
- (1) That the payroll for the payroll period contains the information required to be provided under § 5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under § 5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;
- (2) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;
- (3) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.
- (C) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph (a)(3)(ii)(B) of this section.
- (D) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.
- (iii) The contractor or subcontractor shall make the records required under paragraph (a)(3)(i) of this section available for inspection, copying, or transcription by authorized representatives of the State, EPA or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the Federal agency or State may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be debarment grounds for action pursuant to 29 CFR 5.12.

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(4) Apprentices and Trainees

- (i) Apprentices. Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.
- (ii) Trainees. Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage

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and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

- (iv) Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended and 29 CFR part 30.
- (5) Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.
- (6) Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses contained in 29 CFR 5.5(a)(1) through (10) and such other clauses as the EPA determines may by appropriate, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.
- (7) Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.
- (8) Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.
- (9) Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and Subrecipient(s), State, EPA, the U.S. Department of Labor, or the employees or their representatives.
- (10) Certification of eligibility.
 - (i) By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

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> (ii) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

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- (iii) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.
- 4. Contract Provision for Contracts in Excess of \$100,000.
 - (a) Contract Work Hours and Safety Standards Act. The subrecipient shall insert the following clauses set forth in paragraphs (a)(1), (2), (3), and (4) of this section in full in any contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by Item 3, above or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.
 - (1) Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.
 - (2) Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (b)(1) of this section the contractor and any subcontractor responsible therefore shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (b)(1) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (b)(1) of this section.
 - (3) Withholding for unpaid wages and liquidated damages. The subrecipient shall upon the request of the EPA Award Official or an authorized representative of the Department of Labor, withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (a)(2) of this section.
 - (4) Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (b)(1) through (4) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor

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shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (b)(1) through (4) of this section.

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(b) In addition to the clauses contained in Item 3, above, in any contract subject only to the Contract Work Hours and Safety Standards Act and not to any of the other statutes cited in 29 CFR 5.1, the Subrecipient shall insert a clause requiring that the contractor or subcontractor shall maintain payrolls and basic payroll records during the course of the work and shall preserve them for a period of three years from the completion of the contract for all laborers and mechanics, including guards and watchmen, working on the contract. Such records shall contain the name and address of each such employee, social security number, correct classifications, hourly rates of wages paid, daily and weekly number of hours worked, deductions made, and actual wages paid. Further, the Subrecipient shall insert in any such contract a clause providing that the records to be maintained under this paragraph shall be made available by the contractor or subcontractor for inspection, copying, or transcription by authorized representatives of the (write the name of agency) and the Department of Labor, and the contractor or subcontractor will permit such representatives to interview employees during working hours on the job.

5. Compliance Verification

- (a) The subrecipient shall periodically interview a sufficient number of employees entitled to DB prevailing wages (covered employees) to verify that contractors or subcontractors are paying the appropriate wage rates. As provided in 29 CFR 5.6(a)(6), all interviews must be conducted in confidence. The subrecipient must use Standard Form 1445 (SF 1445) or equivalent documentation to memorialize the interviews. Copies of the SF 1445 are available from EPA on request.
- (b) The subrecipient shall establish and follow an interview schedule based on its assessment of the risks of noncompliance with DB posed by contractors or subcontractors and the duration of the contract or subcontract. Subrecipients must conduct more frequent interviews if the initial interviews or other information indicated that there is a risk that the contractor or subcontractor is not complying with DB. Subrecipients shall immediately conduct interviews in response to an alleged violation of the prevailing wage requirements. All interviews shall be conducted in confidence."
- (c) The subrecipient shall periodically conduct spot checks of a representative sample of weekly payroll data to verify that contractors or subcontractors are paying the appropriate wage rates. The subrecipient shall establish and follow a spot check schedule based on its assessment of the risks of noncompliance with DB posed by contractors or subcontractors and the duration of the contract or subcontract. At a minimum, if practicable the subrecipient should spot check payroll data within two weeks of each contractor or subcontractor's submission of its initial payroll data and two weeks prior to the completion date the contract or subcontract. Subrecipients must conduct more frequent spot checks if the initial spot check or other information indicates that there is a risk that the contractor or subcontractor is not complying with DB. In addition, during the examinations the subrecipient shall verify evidence of fringe benefit plans and payments there under by contractors and subcontractors who claim credit for fringe benefit contributions.
- (d) The subrecipient shall periodically review contractors and subcontractors use of apprentices and trainees to verify registration and certification with respect to apprenticeship and training programs approved by either the U.S Department of Labor or a state, as appropriate, and that

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contractors and subcontractors are not using disproportionate numbers of, laborers, trainees and apprentices. These reviews shall be conducted in accordance with the schedules for spot checks and interviews described in Item 5(b) and (c) above.

(e) Subrecipients must immediately report potential violations of the DB prevailing wage requirements to the EPA DB contact listed above and to the appropriate DOL Wage and Hour District Office listed at http://www.dol.gov/whd/america2.htm.

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Appendix B.

Rules and Regulations

Title 41- Public Contract and Property Management

Chapter 60 - Office of Federal Contract Compliance Programs, Equal Employment Opportunity,

Department of Labor

Compliance Responsibility for Equal Employment Opportunity

Final Rule

Part 60-1 Obligations of Contractors and Sub-Contractors

§60-1.4 Equal Opportunity Clause

(a) FEDERALLY ASSISTED CONSTRUCTION CONTRACTS (1) Except as otherwise provided, each administering agency shall require the inclusion of the following language as a condition of any grant, contract, loan, insurance, or guarantee involving federally assisted construction which is not exempt from the requirements of the equal opportunity clause:

The applicant hereby agrees that it will incorporate or cause to be incorporated into any contract for construction work, or modification thereof, as defined in the regulations of the Secretary of Labor at 41 CFR Chapter 60, which is paid for in whole or in part with funds obtained from the Federal Government or borrowed on the credit of the Federal Government pursuant to a grant, contract, loan insurance, or guarantee, or undertaken pursuant to any Federal program involving such grant, contract, loan, insurance, or guarantee, the following equal opportunity clause:

During the performance of this contract, the contractor agrees as follows:

- The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or national origin, such action shall include, but not be limited to the following: Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other form of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
- (3) The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive considerations for employment without regard to race, color, religion, sex, or national origin.
- (4) The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the contractor's

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> commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

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- (5) The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
- (6)The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
- (7) In the event of the contractor's non-compliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
- (8) The contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance: PROVIDED, HOWEVER. That in the event a contractor becomes involved in or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency the contractor may request the United States to enter into such litigation to protect the interest of the United States.

The applicant further agrees that it will be bound by the above equal opportunity clause with respect to its own employment practices when it participates in federally assisted construction work: PROVIDED, That if the applicant so participating is a State or local government, the above equal opportunity clause is not applicable to any agency, instrumentality or subdivision of such government which does not participate in work on or under the contract.

The applicant agrees that it will assist and cooperate actively with the administering, agency and the Secretary of Labor in obtaining the compliance of contractors and subcontractors with the equal opportunity clause and the rules, regulations, and relevant orders of the Secretary of Labor, that it will furnish the administering agency and the Secretary of Labor such information as they may require for the supervision of such compliance, and that it will otherwise assist the administering agency in the discharge of the agency's primary responsibility for securing compliances.

The applicant further agrees that it will refrain from entering into any contract or contract modification subject to Executive Order 11246 of September 24, 1965, with a contractor debarred from, or who has not demonstrated eligibility for, Government contracts and federally assisted construction contracts pursuant to the Executive order and will carry out such sanctions and penalties for violation of the equal opportunity clause as may be imposed upon contractors and subcontractors by the administering agency or the Secretary of Labor pursuant to Part II, Subpart D of the Executive order. In addition, the applicant

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agrees that if it fails or refuses to comply with these undertakings, the administering agency may take any or all of the following actions: Cancel, terminate, or suspend in whole or in part this grant (contract, loan, insurance, guarantee): refrain from extending any further assistance to the applicant under the program with respect to which the failure or refund occurred until satisfactory assurance of future compliance has been received from such applicant; and refer the case to the Department of Justice for appropriate legal proceedings.

- (b) SUBCONTRACTS. Each nonexempt prime contractor or subcontractor shall include the equal opportunity clause in each of its nonexempt subcontracts.
- (c) INCORPORATION BY REFERENCE. The equal opportunity clause may be incorporated by reference in all Government contracts and subcontracts, including Government bills of lading, transportation requests, contracts for deposit of Government funds, and contracts for issuing and paying U.S. savings bonds and notes, and such other contracts and subcontracts as the director may designate.
- (d) INCORPORATION BY OPERATION OF THE ORDER. By operation of the Order, the equal opportunity clause shall be considered to be a part of every contract and subcontract required by the Order and the regulations in this part to include such a clause whether or not it is physically incorporated in such contracts and whether or not the contract between the agency and the contractor is written.
- (e) ADAPTATION OF LANGUAGE. Such necessary changes in language may be made in the equal opportunity clause as shall be appropriate to identify properly the parties and their undertakings.

Part 60-4 - Construction Contractors - Affirmative Action Requirements §60-4.2 Solicitations.

- (a) All Federal contracting officers and all applicants shall include the notice set forth in paragraph (d) of this section and the Standard Federal Equal Employment Opportunity Construction Contract Specifications set forth in §60-4.3 of this part in all solicitations for offers and bids on all Federal and federally assisted construction contracts or subcontracts to be performed in geographical areas designated by the Director pursuant to §60-4.6 of the part. Administering agencies shall require the inclusion of the notice set forth in paragraph (d) of this section and the specifications set forth in §60-4.3 of this part as a condition of any grant, contract, subcontract, loan, insurance or guarantee involving federally assisted construction covered by this part 60-4.
- (b) All nonconstruction contractors covered by Executive Order 11246 and the implementing regulations shall include the notice in paragraph (d) of this section in all construction agreements which are necessary in whole or in part to the performance of the covered nonconstruction contract.
- (c) Contracting officers, applicants and nonconstruction contractors shall give (SIC) written notice to the Director within 10 working days of award of a contract subject to these provisions. The notification shall include the name, address and telephone number of the contractor; employer identification number; dollar amount of the contract, estimated starting and completion dates of the contract; the contract number; and geographical area in which the contract is to be performed.
- (d) The following notice shall be included in, and shall be a part of, all solicitations for offers and bids on all Federal and federally assisted construction contracts or subcontracts in excess of \$10,000 to be

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performed in geographical areas designed by the Director pursuant to §60-4.5 of this part (see 4) CFR 60-4.2 (a)):

NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY (EXECUTIVE ORDER 11246)

- (1) The Offeror's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Specifications" set forth herein.
- (2) The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate work force in each trade on all construction work in the covered area, are as follows:

Goals for minority participation for each Goals for female participation in **Time Tables** trade each trade Insert goals for each year. Insert goals for each year.

> These goals are applicable to all the Contractor's construction work (whether or not it is Federal or federally assisted) performed in the covered area. If the contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed, with regard to this second area, the contractor also is subject to the goals for both its federally involved and nonfederally involved construction.

> The Contractor's compliance with the Executive Order and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specification set forth in 41 CFR 60-4.3 (a), and 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, and 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 the meeting the Contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR part 60-4, Compliance with the goals will be measured against the total work hours performed.

- (3) The Contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within 10 working days of 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 name, address and telephone number of the subcontractor; employer identification number; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the contract is to be performed.
- (4) As used in this Notice, and in the contract resulting from this solicitation, the "covered area" is (insert description of the geographical areas where the contract is to be performed giving the state, county and city, if any).

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§60-4.3 EQUAL OPPORTUNITY CLAUSES;

(a) The equal opportunity clause published at 41 CFR 60-1.4 (a) of this chapter is required to be included in, and is part of, all nonexempt Federal contracts and subcontracts, including construction contracts and subcontracts. The clause equal opportunity published 41 CFR 60-1.4 (b) is required to be included in, and is a part of, all nonexempt federally assisted construction contracts and subcontracts. In addition to the clauses described above, all Federal contracting officers, all applicants and all nonconstruction contractors as applicable, shall include the specifications set forth in this section in all Federal and federally assisted construction contracts in excess of \$10,000 to be performed in geographical areas designated by the Director pursuant to §60-4.6 of this part and in construction subcontracts in excess of \$10,000 necessary in whole or in part to the performance of non-construction Federal contracts and subcontracts covered under the Executive Order.

STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY CONSTRUCTION CONTRACT SPECIFICATIONS (EXECUTIVE ORDER 11246)

- (1) As used in these specifications:
 - "Covered area" means the geographical area described in the solicitation from a. which this contract resulted:
 - "Director" means Director, Office of Federal Contracts Compliance Programs, b. United States Department of Labor, or any person to who the Director delegates authority:
 - "Employer identification number" means the Federal Social Security number used c. on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941.
 - "Minority" includes: d.
 - Black (all persons having origins in any of the Black African racial groups not of Hispanic origin);
 - (ii) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish Culture or origin, regardless or race);
 - (iii) Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands): and
 - (iv) American Indian or Alaskan Native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).
- (2) Whenever the Contractor, or any Subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of \$10,000 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which a set forth in the solicitations from which this contract resulted.
- (3) If the Contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or

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through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors must be able to demonstrate, their participation in and compliance with the provisions of any such Hometown Plan. Each Contractor or Subcontractor participating in a approved Plan is individually required to comply with its obligations under the EEO clause, and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other Contractors or Subcontractors toward a goal in an approved Plan does not excuse any covered Contractor's or Subcontractor's failure to take good faith efforts to achieve the Plan goals and timetables.

- (4) The Contractor shall implement the specific affirmative action standards provided in paragraphs 7a through p of these specifications. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. Covered construction contractors performing construction work in geographical areas where they do not have a Federal of federally assisted construction contract shall apply the minority and female goals established for the geographical area where the work is being performed. Goals are published periodically in the Federal Register in notice form, and such notices may be obtained from any Office of Federal Contract Compliance Programs office or from Federal procurement contracting officers. The contractor is expected to make substantially uniform progress in meeting the goals in each craft during the period specified.
- (5) Neither the provisions of any collective bargaining agreement, or the failure by a union with whom the Contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the Contractor's obligations under these specifications. Executive Order 11246, or the regulations promulgated pursuant thereto.
- (6) In order for the non-working training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. The trainees must be trained pursuant to training programs approved by the U.S. Department of Labor.
- (7) The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The Contractor shall document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:
 - Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working

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environment, with specific attention to minority or female individuals working at such sites or in such facilities.

- b. Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organizations responses.
- Maintain a current file of the names, addresses and telephone numbers of each c. minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefore, along with what-ever additional actions the Contractor may have taken.
- d. Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meets its obligations.
- Develop on-the-job training opportunities and/or participate in training programs e. for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to the sources complied under 7b above.
- f. Disseminate the Contractor's EEO policy by providing notice of the policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.
- Review, at least annually, the company's EEO policy and affirmative action g. obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of these items with onsite supervisory personnel such as Superintendents, General Foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.
- Disseminate the Contractor's EEO policy externally by including it in any h advertising in the news media, specifically including minority and female new media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and Subcontractors with who the Contractor does or anticipates doing business.

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- i. Direct its recruitment efforts, both oral and written, to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.
- Encourage present minority and female employees to recruit other minority j. persons and women and, where reasonable, provide after school, summer and vacation employment to minority and female youth both on the site and in other areas of a Contractor's work force.
- k. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR part 60-3.
- Ι. Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.
- m. Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligation under these specifications are being carried out.
- n. Ensure that all facilities and company activities are nonsegregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.
- Document and maintain a record of all solicitations of offers for subcontracts ο. from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.
- p. Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.
- (8) Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations (7a through p). The efforts of contractor association, joint contractor-union, contractor-community, or other similar group of which the contractor is a member and participating may be asserted as fulfilling any one or more to its obligations under 7a through p of these Specifications provided that the contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the Contractor's minority and female work force participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf to the Contractor. The obligation to comply, however, is the Contractor's and failure of such a group to fulfill an obligation shall not be a defense for the Contractor's noncompliance.
- (9)A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to

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take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in a substantially disparate manner (for example, even though the Contractor has achieved its goals for women generally, the Contractor may be in violation of the Executive Order if a specific minority group of women is underutilized).

- (10)The Contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex, or national origin.
- (11)The Contractor shall not enter into any Subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.
- (12)The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations, by the Office of Federal Contract Compliance Programs. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.
- (13)The Contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contract fails to comply with the requirements to the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.
- (14)The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the Government and to keep records. Records shall at least include for each employee the name, address, telephone numbers, construction trade, union affiliation, if any, employee identification number when assigned, social security number, race, sex, status (e.g., mechanic, apprentice trainee, helper, or laborer), dates of changes of status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractors shall not be required to maintain separate records.
- Nothing herein provided shall be construed as a limitation upon the application of other (15)laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).
- (b) The notice set forth in 41 CFR 60-4.2 and the specifications set forth in 41 CFR 60-4.3 replace the New Form for Federal Equal Employment Opportunity Bid Conditions for Federal and Federally Assisted

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Construction published at 41 FR 32482 and commonly known as the Model Federal EEO Bid Conditions, and the New Form shall not used after the regulations in 41 CFR part 60-4 become effective.

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Appendix C.

****Notice – Appendix C is not required for Non-Equivalency projects **** ****This information has been provided as Optional ****

40 CFR PART 33

PARTICIPATION BY DISADVANTAGED BUSINESS ENTERPRISES IN UNITED STATES ENVIRONMENTAL PROTECTION AGENCY PROGRAMS

Subpart C—Good Faith Efforts

§ 33.301 What does this subpart require?

A recipient, including one exempted from applying the fair share objective requirements by § 33.411, is required to make the following good faith efforts whenever procuring construction, equipment, services and supplies under an EPA financial assistance agreement, even if it has achieved its fair share objectives under subpart D of this part:

- (a) Ensure DBEs are made aware of contracting opportunities to the fullest extent practicable through outreach and recruitment activities. For Indian Tribal, State and Local and Government recipients, this will include placing DBEs on solicitation lists and soliciting them whenever they are potential sources.
- (b) Make information on forthcoming opportunities available to DBEs and arrange time frames for contracts and establish delivery schedules, where the requirements permit, in a way that encourages and facilitates participation by DBEs in the competitive process. This includes, whenever possible, posting solicitations for bids or proposals for a minimum of 30 calendar days before the bid or proposal closing date.
- (c) Consider in the contracting process whether firms competing for large contracts could subcontract with DBEs. For Indian Tribal, State and local Government recipients, this will include dividing total requirements when economically feasible into smaller tasks or quantities to permit maximum participation by DBEs in the competitive process.
- (d) Encourage contracting with a consortium of DBEs when a contract is too large for one of these firms to handle individually.
- (e) Use the services and assistance of the SBA and the Minority Business Development Agency of the Department of Commerce.
- (f) If the prime contractor awards subcontracts, require the prime contractor to take the steps in paragraphs (a) through (e) of this section.

§ 33.302 Are there any additional contract administration requirements?

- (a) A recipient must require its prime contractor to pay its subcontractor for satisfactory performance no more than 30 days from the prime contractor's receipt of payment from the recipient.
- (b) A recipient must be notified in writing by its prime contractor prior to any termination of a DBE subcontractor for convenience by the prime contractor.
- (c) If a DBE subcontractor fails to complete work under the subcontract for any reason, the recipient must require the prime contractor to employ the six good faith efforts described in § 33.301 if soliciting a replacement subcontractor.

(d) A recipient must require its prime contractor to employ the six good faith efforts described in § 33.301 even if the prime contractor has achieved its fair share objectives under subpart D of this part.

§ 33.303 Are there special rules for loans under EPA financial assistance agreements?

A recipient of an EPA financial assistance agreement to capitalize a revolving loan fund, such as a State under the CWSRF or DWSRF or an eligible entity under the Brownfields Cleanup Revolving Loan Fund program, must require that borrowers receiving identified loans comply with the good faith efforts described in § 33.301 and the contract administration requirements of §3.302. This provision does not require that such private and nonprofit borrowers expend identified loan funds in compliance with any other procurement procedures contained in 40 CFR part 30, part 31, or part 35, subpart O, as applicable.

§ 33.304 Must a Native American (either as an individual, organization, Tribe or Tribal Government) recipient or prime contractor follow the six good faith efforts?

- (a) A Native American (either as an individual, organization, corporation, Tribe or Tribal Government) recipient or prime contractor must follow the six good faith efforts only if doing so would not conflict with existing Tribal or Federal law, including but not limited to the Indian Self-Determination and Education Assistance Act (25 U.S.C. 450e), which establishes, among other things, that any federal contract, subcontract, grant, or subgrant awarded to Indian organizations or for the benefit of Indians, shall require preference in the award of subcontracts and subgrants to Indian organizations and to Indian-owned economic enterprises.
- (b) Tribal organizations awarded an EPA financial assistance agreement have the ability to solicit and recruit Indian organizations and Indian-owned economic enterprises and give them preference in the award process prior to undertaking the six good faith efforts. Tribal governments with promulgated tribal laws and regulations concerning the solicitation and recruitment of Native-owned and other minority business enterprises, including women-owned business enterprises, have the discretion to utilize these tribal laws and regulations in lieu of the six good faith efforts. If the effort to recruit Indian organizations and Indian-owned economic enterprises is not successful, then the recipient must follow the six good faith efforts. All tribal recipients still must retain records documenting compliance in accordance with § 33.501 and must report to EPA on their accomplishments in accordance with § 33.502.
- (c) Any recipient, whether or not Native American, of an EPA financial assistance agreement for the benefit of Native Americans, is required to solicit and recruit Indian organizations and Indianowned economic enterprises and give them preference in the award process prior to undertaking the six good faith efforts. If the efforts to solicit and recruit Indian organizations and Indianowned economic enterprises is not successful, then the recipient must follow the six good faith efforts.
- (d) Native Americans are defined in § 33.103 to include American Indians, Eskimos, Aleuts and Native Hawaiians.

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Appendix D.

MEMORANDUM

SUBJECT: Implementation of American Iron and Steel provisions of P.L. 113-76, Consolidated

Appropriations Act, 2014

FROM: Andrew Sawyers, Director

Office of Wastewater Management (4201M)

Peter Grevatt, Director

Office of Ground Water and Drinking Water (4601M)

TO: Water Management Division Directors

Regions I - X

P.L. 113-76, Consolidated Appropriations Act, 2014 (Act), includes an "American Iron and Steel (AIS)" requirement in section 436 that requires Clean Water State Revolving Loan Fund (CWSRF) and Drinking Water State Revolving Loan Fund (DWSRF) assistance recipients to use iron and steel products that are produced in the United States for projects for the construction, alteration, maintenance, or repair of a public water system or treatment works if the project is funded through an assistance agreement executed beginning January 17, 2014 (enactment of the Act), through the end of Fiscal Year 2014.

Section 436 also sets forth certain circumstances under which EPA may waive the AIS requirement. Furthermore, the Act specifically exempts projects where engineering specifications and plans were approved by a State agency prior to January 17, 2014.

The approach described below explains how EPA will implement the AIS requirement. The first section is in the form of questions and answers that address the types of projects that must comply with the AIS requirement, the types of products covered by the AIS requirement, and compliance. The second section is a step-by-step process for requesting waivers and the circumstances under which waivers may be granted.

Implementation

The Act states:

Sec. 436. (a)

- (1) None of the funds made available by a State water pollution control revolving fund as authorized by title VI of the Federal Water Pollution Control Act (33 U.S.C. 1381 et seq.) or made available by a drinking water treatment revolving loan fund as authorized by section 1452 of the Safe Drinking Water Act (42 U.S.C. 300j–12) shall be used for a project for the construction, alteration, maintenance, or repair of a public water system or treatment works unless all of the iron and steel products used in the project are produced in the United States.
- (2) In this section, the term "iron and steel products" means the following products made primarily of iron or steel: lined or unlined pipes and fittings, manhole covers and other municipal castings, hydrants, tanks, flanges, pipe clamps and restraints, valves, structural steel, reinforced precast concrete, and construction materials.

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 El Dorado Rural Public Water Authority
 SR

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 Wastewater System Improvements
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(b) Subsection (a) shall not apply in any case or category of cases in which the Administrator of the Environmental Protection Agency (in this section referred to as the "Administrator") finds that—

- (1) applying subsection (a) would be inconsistent with the public interest;
- (2) iron and steel products are not produced in the United States in sufficient and reasonably available quantities and of a satisfactory quality; or
- (3) inclusion of iron and steel products produced in the United States will increase the cost of the overall project by more than 25 percent.
- (c) If the Administrator receives a request for a waiver under this section, the Administrator shall make available to the public on an informal basis a copy of the request and information available to the Administrator concerning the request, and shall allow for informal public input on the request for at least 15 days prior to making a finding based on the request. The Administrator shall make the request and accompanying information available by electronic means, including on the official public Internet Web site of the Environmental Protection Agency.
- (d) This section shall be applied in a manner consistent with United States obligations under international agreements.
- (e) The Administrator may retain up to 0.25 percent of the funds appropriated in this Act for the Clean and Drinking Water State Revolving Funds for carrying out the provisions described in subsection (a)(1) for management and oversight of the requirements of this section.
- (f) This section does not apply with respect to a project if a State agency approves the engineering plans and specifications for the project, in that agency's capacity to approve such plans and specifications prior to a project requesting bids, prior to the date of the enactment of this Act.

The following questions and answers provide guidance for implementing and complying with the AIS requirements:

Project Coverage

What classes of projects are covered by the AIS requirement?

All treatment works projects funded by a CWSRF assistance agreement, and all public water system projects funded by a DWSRF assistance agreement, from the date of enactment through the end of Fiscal Year 2014. The AIS requirements apply to the entirety of the project, no matter when construction begins or ends. Additionally, the AIS requirements apply to all parts of the project, no matter the source of funding.

Covered Iron and Steel Products

What is an iron or steel product?

For purposes of the CWSRF and DWSRF projects that must comply with the AIS requirement, an iron or steel product is one of the following made primarily of iron or steel that is permanently incorporated into the public water system or treatment works:

Lined or unlined pipes or fittings; Manhole Covers; Municipal Castings (defined in more detail below); Hydrants; Tanks;

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Flanges;

Pipe clamps and restraints;

Valves;

Structural steel (defined in more detail below);

Reinforced precast concrete; and

Construction materials (defined in more detail below).

What does the term 'primarily iron or steel' mean?

'Primarily iron or steel' places constraints on the list of products above. For one of the listed products to be considered subject to the AIS requirements, it must be made of greater than 50% iron or steel, measured by cost. The cost should be based on the material costs.

Can you provide an example of how to perform a cost determination?

For example, the iron portion of a fire hydrant would likely be the bonnet, body and shoe, and the cost then would include the pouring and casting to create those components. The other material costs would include non-iron and steel internal workings of the fire hydrant (i.e., stem, coupling, valve, seals, etc.). However, the assembly of the internal workings into the hydrant body would not be included in this cost calculation. If one of the listed products is not made primarily of iron or steel, United States (US) provenance is not required. An exception to this definition is reinforced precast concrete, which is addressed in a later question.

If a product is composed of more than 50% iron or steel, but is not listed in the above list of items, must the item be produced in the US? Alternatively, must the iron or steel in such a product be produced in the US?

The answer to both question is no. Only items on the above list must be produced in the US. Additionally, the iron or steel in a non-listed item can be sourced from outside the US.

What is the definition of steel?

Steel means an alloy that includes at least 50 percent iron, between .02 and 2 percent carbon, and may include other elements. Metallic elements such as chromium, nickel, molybdenum, manganese, and silicon may be added during the melting of steel for the purpose of enhancing properties such as corrosion resistance, hardness, or strength. The definition of steel covers carbon steel, alloy steel, stainless steel, tool steel and other specialty steels.

What does 'produced in the United States' mean?

Production in the United States of the iron or steel products used in the project requires that all manufacturing processes, including application of coatings, must take place in the United States, with the exception of metallurgical processes involving refinement of steel additives. All manufacturing processes includes processes such as melting, refining, forming, rolling, drawing, finishing, fabricating and coating. Further, if a domestic iron and steel product is taken out of the US for any part of the manufacturing process, it becomes foreign source material. However, raw materials such as iron ore, limestone and iron and steel scrap are not covered by the AlS requirement, and the material(s), if any, being applied as a coating are similarly not covered. Non-iron or steel components of an iron and steel product may come from non-US sources. For example, for products such as valves and hydrants, the individual non-iron and steel components do not have to be of domestic origin.

Are the raw materials used in the production of iron or steel required to come from US sources?

No, raw materials, such as iron ore, limestone, scrap iron, and scrap steel, can come from non-US sources.

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If an above listed item is primarily made of iron or steel, but is only at the construction site temporarily, must such an item be produced in the US?

No. Only the above listed products made primarily of iron or steel, permanently incorporated into the project must be produced in the US. For example trench boxes or scaffolding or equipment, which are removed from the project site upon completion of the project, are not required to be made of U.S. Iron or Steel.

What is the definition of 'municipal castings'?

Municipal castings are cast iron or steel infrastructure products that are melted and cast. They typically provide access, protection, or housing for components incorporated into utility owned drinking water, storm water, wastewater, and surface infrastructure. They are typically made of grey or ductile iron, or steel. Examples of municipal castings are:

Access Hatches;

Ballast Screen;

Benches (Iron or Steel);

Bollards;

Cast Bases:

Cast Iron Hinged Hatches, Square and Rectangular;

Cast Iron Riser Rings;

Catch Basin Inlet;

Cleanout/Monument Boxes;

Construction Covers and Frames:

Curb and Corner Guards;

Curb Openings;

Detectable Warning Plates;

Downspout Shoes (Boot, Inlet);

Drainage Grates, Frames and Curb Inlets;

Inlets;

Junction Boxes;

Lampposts;

Manhole Covers, Rings and Frames, Risers;

Meter Boxes;

Steel Hinged Hatches, Square and Rectangular;

Steel Riser Rings;

Trash receptacles;

Tree Grates:

Tree Guards;

Trench Grates; and

Valve Boxes, Covers and Risers.

What is 'structural steel'?

Structural steel is rolled flanged shapes, having at least one dimension of their cross-section 3 inches or greater, which are used in the construction of bridges, buildings, ships, railroad rolling stock, and for numerous other constructional purposes. Such shapes are designated as wide-flange shapes, standard Ibeams, channels, angles, tees and zees. Other shapes include H-piles, sheet piling, tie plates, cross ties, and those for other special purposes.

El Dorado Rural Public Water Authority Recipient Name:

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What is a 'construction material' for purposes of the AIS requirement?

Construction materials are those articles, materials, or supplies made primarily of iron and steel, that are permanently incorporated into the project, not including mechanical and/or electrical components, equipment and systems. Some of these products may overlap with what is also considered "structural steel". This includes, but is not limited to, the following products: wire rod, bar, angles, concrete reinforcing bar, wire, wire cloth, wire rope and cables, tubing, framing, joists, trusses, fasteners (i.e., nuts and bolts), welding rods, decking, grating, railings, stairs, access ramps, fire escapes, ladders, wall panels, dome structures, roofing, ductwork, surface drains, cable hanging systems, manhole steps, fencing and fence tubing, guardrails, doors, gates, and screens.

What is not considered a 'construction material' for purposes of the AIS requirement?

Mechanical and electrical components, equipment and systems are not considered construction materials. Mechanical equipment is typically that which has motorized parts and/or is powered by a motor. Electrical equipment is typically any machine powered by electricity and includes components that are part of the electrical distribution system.

The following examples (including their appurtenances necessary for their intended use and operation) are NOT considered construction materials: pumps, motors, gear reducers, drives (including variable frequency drives (VFDs)), electrical/pneumatic/manual accessories used to operate valves (such as electric valve actuators), mixers, gates, motorized screens (such as traveling screens), blowers/aeration equipment, compressors, meters, sensors, controls and switches, supervisory control and data acquisition (SCADA), membrane bioreactor systems, membrane filtration systems, filters, clarifiers and clarifier mechanisms, rakes, grinders, disinfection systems, presses (including belt presses), conveyors, cranes, HVAC (excluding ductwork), water heaters, heat exchangers, generators, cabinetry and housings (such as electrical boxes/enclosures), lighting fixtures, electrical conduit, emergency life systems, metal office furniture, shelving, laboratory equipment, and analytical instrumentation, and dewatering equipment.

If the iron or steel is produced in the US, may other steps in the manufacturing process take place outside of the US, such as assembly?

No. Production in the US of the iron or steel used in a listed product requires that all manufacturing processes must take place in the United States, except metallurgical processes involving refinement of steel additives.

What processes must occur in the US to be compliant with the AIS requirement for reinforced precast concrete?

While reinforced precast concrete may not be at least 50% iron or steel, in this particular case, the reinforcing rebar must be produced in the US and meet the same standards as for any other iron or steel product. Additionally, the casting of the concrete product must take place in the US. The cement and other raw materials used in concrete production are not required to be of domestic origin.

If the reinforced concrete is cast at the construction site, the reinforcing rebar is considered to be a construction material and must be produced in the US.

Compliance

How should an assistance recipient document compliance with the AIS requirement?

In order to ensure compliance with the AIS requirement, specific AIS contract language must be included in each contract, starting with the assistance agreement, all the way down to the purchase agreements.

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EPA recommends the use of a step certification process, similar to one used by the Federal Highway Administration. The step certification process is a method to ensure that producers adhere to AIS requirements and assistance recipients can verify that products comply with the AIS requirement. The process also establishes accountability and better enables States to take enforcement actions against violators.

Step certification creates a paper trail which documents the location of the manufacturing process involved with the production of steel and iron materials. A step certification is a process under which each handler (supplier, fabricator, manufacturer, processor, etc.) of the iron and steel products certifies that their step in the process was domestically performed. Each time a step in the manufacturing process takes place, the manufacturer delivers its work along with a certification of its origin. A certification can be quite simple. Typically, it includes the name of the manufacturer, the location of the manufacturing facility where the product or process took place (not its headquarters), a description of the product or item being delivered, and a signature by a manufacturer's responsible party. Attached, as Attachment 3, is a sample certification. These certifications should be collected and maintained by the assistance recipients.

Alternatively, the final manufacturer that delivers the iron or steel product to either the worksite, vendor, or contractor, may provide a certification asserting that all manufacturing processes occurred in the US. While this type of certification may be acceptable, it may not provide the same degree of assurance. Additional documentation may be needed if the certification is lacking important information. Step certification is the best practice.

How should a State ensure assistance recipients are complying with the AIS requirement?

States should, as a best practice, conduct site visits of projects during construction and review documentation demonstrating proof of compliance which the assistance recipient has gathered.

What happens if a State or EPA finds a non-compliant iron and/or steel product permanently incorporated in the project?

If a potentially noncompliant product is identified, the State should notify the assistance recipient of the apparent unauthorized use of a non-domestic component, including a proposed corrective action, and should be given the opportunity to reply. If unauthorized use is confirmed, the State can take one or more of the following actions: request a waiver where appropriate; require the removal of the non-domestic item; or withhold payment for all or part of the project. Only EPA can issue waivers to authorize the use of a non-domestic item. EPA may use remedies available to it under the Clean Water Act, the Safe Drinking Water Act, and 40 CFR part 31 grant regulations in the event of a violation of a grant term and condition.

It is recommended that the State work collaboratively with EPA to determine the appropriate corrective action, especially in cases where the State is the one who identifies the item in noncompliance or there is a disagreement with the assistance recipient.

If fraud, waste, abuse, or any violation of the law is suspected, the Office of Inspector General (OIG) should be contacted immediately. The OIG can be reached at 1 (888) 546-8740 or OIG_Hotline@epa.gov. More information can be found at this website: http://www.epa.gov/oig/hotline.htm.

How do international trade agreements affect the implementation of the AIS requirements?

The AIS provision applies in a manner consistent with United States obligations under international agreements. Typically, these obligations only apply to direct procurement by the entities that are

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signatories to such agreements. In general, SRF assistance recipients are not signatories to such agreements, so these agreements have no impact on this AIS provision. In the few instances where such an agreement applies to a municipality, that municipality is under the obligation to determine its applicability and requirements and document the actions taken to comply for the State.

Waiver Process

The statute permits EPA to issue waivers for a case or category of cases where EPA finds (1) that applying these requirements would be inconsistent with the public interest; (2) iron and steel products are not produced in the US in sufficient and reasonably available quantities and of a satisfactory quality; or (3) inclusion of iron and steel products produced in the US will increase the cost of the overall project by more than 25 percent.

In order to implement the AIS requirements, EPA has developed an approach to allow for effective and efficient implementation of the waiver process to allow projects to proceed in a timely manner. The framework described below will allow States to apply for waivers of the AIS requirement directly to EPA Headquarters. Pursuant to the Act, EPA has the responsibility to make findings as to the issuance of waivers to the AIS requirements.

Definitions

The following terms are critical to the interpretation and implementation of the AIS requirements and apply to the process described in this memorandum:

<u>Reasonably Available Quantity</u>: The quantity of iron or steel products is available or will be available at the time needed and place needed, and in the proper form or specification as specified in the project plans and design.

<u>Satisfactory Quality</u>: The quality of iron or steel products, as specified in the project plans and designs.

Assistance Recipient: A borrower or grantee that receives funding from a State CWSRF or DWSRF program.

Step-By-Step Waiver Process

<u>Application by Assistance Recipient</u>

Each local entity that receives SRF water infrastructure financial assistance is required by section 436 of the Act to use American made iron and steel products in the construction of its project. However, the recipient may request a waiver. Until a waiver is granted by EPA, the AIS requirement stands, except as noted above with respect to municipalities covered by international agreements.

The waiver process begins with the SRF assistance recipient. In order to fulfill the AIS requirement, the assistance recipient must in good faith design the project (where applicable) and solicit bids for construction with American made iron and steel products. It is essential that the assistance recipient include the AIS terms in any request for proposals or solicitations for bids, and in all contracts. The assistance recipient may seek a waiver at any point before, during, or after the bid process, but before installation of the product, if one or more of the following three conditions is met:

- 1. Applying the American Iron and Steel requirements of the Act would be inconsistent with the public interest;
- 2. Iron and steel products are not produced in the United States in sufficient and reasonably available quantities and of a satisfactory quality; or

3. Inclusion of iron and steel products produced in the United States will increase the cost of the overall project by more than 25 percent.

Proper and sufficient documentation must be provided by the assistance recipient. A checklist detailing the types of information required for a waiver to be processed is attached as Attachment 1.

Additionally, it is strongly encouraged that assistance recipients hold pre-bid conferences with potential bidders. A pre-bid conference can help to identify iron and steel products needed to complete the project as described in the plans and specifications that may not be available from domestic sources. It may also identify the need to seek a waiver prior to bid, and can help inform the recipient on compliance options.

In order to apply for a project waiver, the assistance recipient should email the request in the form of a Word document (.doc) to the State SRF Engineer. The State SRF designee will review the application for the waiver and determine whether the necessary information has been included. Once the waiver application is complete, the State designee will forward the application to either of two email addresses. For CWSRF waiver requests, please send the application to: cwsrfwaiver@epa.gov. For DWSRF waiver requests, please send the application to: dwsrfwaiver@epa.gov.

Evaluation by EPA

After receiving an application for waiver of the AIS requirements, EPA Headquarters will publish the request on its website for 15 days and receive informal comment. EPA Headquarters will then use the checklist in Attachment 2 to determine whether the application properly and adequately documents and justifies the statutory basis cited for the waiver – that it is quantitatively and qualitatively sufficient – and to determine whether or not to grant the waiver.

In the event that EPA finds that adequate documentation and justification has been submitted, the Administrator may grant a waiver to the assistance recipient. EPA will notify the State designee that a waiver request has been approved or denied as soon as such a decision has been made. Granting such a waiver is a 3-step process:

- 1. Posting After receiving a complete application for a waiver, EPA is required to publish the application and all material submitted with the application on EPA's website for 15 days. During that period, the public will have the opportunity to review the request and provide informal comment to EPA. The website can be found at: http://water.epa.grants_funding/aisrequirement.cfm
- 2. Evaluation After receiving an application for waiver of the AIS requirements, EPA Headquarters will use the checklist in Attachment 2 to determine whether the application properly and adequately documents and justifies the statutory basis cited for the waiver that it is quantitatively and qualitatively sufficient and to determine whether or not to grant the waiver.
- 3. Signature of waiver approval by the Administrator or another agency official with delegated authority as soon as the waiver is signed and dated, EPA will notify the State SRF program, and post the signed waiver on our website. The assistance recipient should keep a copy of the signed waiver in its project files.

Public Interest Waivers

EPA has the authority to issue public interest waivers. Evaluation of a public interest waiver request may be more complicated than that of other waiver requests so they may take additional time for a decision

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to be made. An example of a public interest waiver that might be issued could be for a community that has standardized on a particular type or manufacturer of a valve because of its performance to meet their specifications. Switching to an alternative valve may require staff to be trained on the new equipment and additional spare parts would need to be purchased and stocked, existing valves may need to be unnecessarily replaced, and portions of the system may need to be redesigned. Therefore, requiring the community to install an alternative valve would be inconsistent with public interest.

EPA also has the authority to issue a public interest waiver that covers categories of products that might apply to all projects.

EPA reserves the right to issue national waivers that may apply to particular classes of assistance recipients, particular classes of projects, or particular categories of iron or steel products. EPA may develop national or (U.S. geographic) regional categorical waivers through the identification of similar circumstances in the detailed justifications presented to EPA in a waiver request or requests. EPA may issue a national waiver based on policy decisions regarding the public's interest or a determination that a particular item is not produced domestically in reasonably available quantities or of a sufficient quality. In such cases, EPA may determine it is necessary to issue a national waiver.

If you have any questions concerning the contents of this memorandum, you may contact us, or have your staff contact Jordan Dorfman, Attorney-Advisor, State Revolving Fund Branch, Municipal Support Division, at dorfman.jordan@epa.gov or (202) 564-0614 or Kiri Anderer, Environmental Engineer, Infrastructure Branch, Drinking Water Protection Division, at anderer.kirsten@epa.gov or (202) 564-3134.

Attachment 1: Information Checklist for Waiver Request

The purpose of this checklist is to help ensure that all appropriate and necessary information is submitted to EPA. EPA recommends that waiver applicants review this checklist carefully and provide all appropriate information to EPA. This checklist is for informational purposes only and does not need to be included as part of a waiver application.

Items	✓	Notes
General		
 Waiver request includes the following information: Description of the foreign and domestic construction materials Unit of measure Quantity Price Time of delivery or availability Location of the construction project Name and address of the proposed supplier A detailed justification for the use of foreign construction materials Waiver request was submitted according to the instructions in the memorandum Assistance recipient made a good faith effort to solicit bids for domestic iron and steel products, as demonstrated by language in requests for proposals, contracts, and communications with the prime contractor 		
Cost		
Waiver request includes the following information:		

Availability

- Waiver request includes the following supporting documentation necessary to demonstrate the availability, quantity, and/or quality of the materials for which the waiver is requested:
 - Supplier information or pricing information from a reasonable number of domestic suppliers indicating availability/delivery date for construction materials
 - Documentation of the assistance recipient's efforts to find available domestic sources, such as a description of the process for identifying suppliers and a list of contacted suppliers.
 - Project schedule
 - Relevant excerpts from project plans, specifications, and permits indicating the required quantity and quality of construction materials
- Waiver request includes a statement from the prime contractor confirming the non-availability of the domestic construction materials for which the waiver is sought
- Has the State received other waiver requests for the materials described in this waiver request, for comparable projects?

Attachment 2: EPA HQ Review Checklist for Waiver Request

Instructions: To be completed by EPA. Review all waiver requests using the questions in the checklist, and mark the appropriate box as Yes, No or N/A. Marks that fall inside the shaded boxes may be grounds for denying the waiver. If none of your review markings fall into a shaded box, the waiver is eligible for approval if it indicates that one or more of the following conditions applies to the domestic product for which the waiver is sought:

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- The iron and/or steel products are not produced in the United States in sufficient and reasonably available quantities and of a satisfactory quality.
- 2. The inclusion of iron and/or steel products produced in the United States will increase the cost of the overall project by more than 25 percent.

Review Items	Yes	No	N/A	Comments
Cost				
Does the waiver request include the following information?				
 Comparison of overall cost of project with domestic iron and 				
steel products to overall cost of project with foreign iron and				
steel products				
 Relevant excerpts from the bid documents used by the 				
contractors to complete the comparison				
 A sufficient number of bid documents or pricing information 				
from domestic sources to constitute a reasonable survey of the				
market				
Does the Total Domestic Project exceed the Total Foreign Project Cost by more than 25%2				
Cost by more than 25%? Availability				
Does the waiver request include supporting documentation				
sufficient to show the availability, quantity, and/or quality of the				
iron and/or steel product for which the waiver is requested?				
 Supplier information or other documentation indicating 				
availability/delivery date for materials				
 Project schedule 				
 Relevant excerpts from project plans, specifications, and 				
permits indicating the required quantity and quality of				
materials				
Does supporting documentation provide sufficient evidence that				
the contractors made a reasonable effort to locate domestic				
suppliers of materials, such as a description of the process for				
identifying suppliers and a list of contacted suppliers?				
Based on the materials delivery/availability date indicated in the supporting desumentation will the materials be upporting desumentation.				
supporting documentation, will the materials be unavailable when they are needed according to the project schedule? (By item, list				
schedule date and domestic delivery quote date or other relevant				
information)				
 Is EPA aware of any other evidence indicating the non-availability 				
of the materials for which the waiver is requested? Examples				
include:				

 Multiple waiver requests for the materials described in this waiver request, for comparable projects in the same State 		
 Multiple waiver requests for the materials described in this 		
waiver request, for comparable projects in other States — Correspondence with construction trade associations		
indicating the non-availability of the materials		
Are the available domestic materials indicated in the bid documents of inadequate quality compared those required by the project		
plans, specifications, and/or permits?		

Attachment 3: Sample Certification for Step Certification Process

The following information is provided as a sample letter of step certification for Buy America compliance. Documentation must be provided on company letterhead.

Date

Company Name

Company Address City, State Zip

Subject: Buy America Step Certification for Project (XXXXX-XXXXXXA)

I, (company representative), certify that the (melting, bending, coating, galvanizing, cutting, etc.) process for (manufacturing or fabricating) the following products and/or materials shipped or provided for the subject project is in full compliance with the American Iron and Steel requirement as mandated in EPA's State Revolving Fund Programs.

Item, Products and/or Materials:

- 1. Xxxx
- 2. Xxxx
- 3. Xxxx

If any of the above compliance statements change while providing material to this project we will immediately notify the prime contractor and the engineer.

Signed by company representative

The following information is provided as a sample letter of certification for Buy America compliance. Documentation must be provided on company letterhead.

Date

Company Name

Company Address City, State Zip

Subject: Buy America Certification for Project (XXXXX-XXXXXXA)

I, (company representative), certify that the following products and/or materials shipped/provided to the subject project are in full compliance with the American Iron and Steel requirement as mandated in EPA's State Revolving Fund Programs.

Item, Products and/or Materials:

- 1. Xxxx
- 2. Xxxx
- 3. Xxxx

If any of the above compliance statements change while providing material to this project we will immediately notify the prime contractor and the engineer.

Signed by company representative

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Appendix E.

Reserved for use with SRF Equivalency projects.

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Appendix F.

Prohibition on Certain Telecommunication and Video Surveillance Services or Equipment in the SRF Programs

OFFICE OF WATER UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

MEMORANDUM

SUBJECT: Prohibition on Certain Telecommunication and Video Surveillance Services or

Equipment in the SRF Programs

FROM: Kiri Anderer, P.E., Acting Associate Branch Chief

Infrastructure Branch, OGWDW

Michael Deane, Branch Chief

State Revolving Fund Branch, OWM

TO: SRF Branch Chiefs

Regions 1-10

Effective August 13, 2020, recipients and subrecipients of EPA funded assistance agreements, including borrowers under EPA funded revolving loan funds, must comply with regulations at 2 CFR 200.216, Prohibition on certain telecommunication and video surveillance services or equipment, implementing section 889 of Public Law 115-232. The regulation prohibits the use of Federal funds to procure (enter into, extend, or renew contracts) or obtain equipment, systems, or services that use "covered telecommunications equipment or services" identified in the regulation as a substantial or essential component of any system, or as critical technology as part of any system. Prohibitions extend to the use of Federal funds by recipients and subrecipients to enter into a contract with an entity that "uses any equipment, system, or service that uses covered telecommunications equipment or services" as a substantial or essential component of any system, or as critical technology as part of any system. Certain equipment, systems, or services, including equipment, systems, or services produced or provided by entities subject to the prohibition are recorded in the System for Award Management exclusion list.

As described in section 889 of Public Law 115-232, covered telecommunications equipment or services includes:

- Telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities).
- For the purpose of public safety, security of government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities).
- Telecommunications or video surveillance services provided by such entities or using such equipment.

Telecommunications or video surveillance equipment or services produced or provided by an
entity that the Secretary of Defense, in consultation with the Director of the National Intelligence
or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned
or controlled by, or otherwise connected to, the government of a covered foreign country.

Applicability in the State Revolving Fund (SRF) Programs

Clean Water and Drinking Water SRF (CWSRF and DWSRF) programs may not expend equivalency funds for these products on or after August 13, 2020. States must ensure that equivalency assistance agreements include the telecommunications prohibition condition provided by EPA's Office of Grants and Debarment (OGD) in OGD's most recent EPA General Terms and Conditions. The condition must also be in construction contracts associated with equivalency assistance agreements.

There is no exhaustive list of components and services that fall under the prohibition. State SRF managers and local assistance recipients should exercise due diligence and be particularly mindful of project components with internet or cellular connections. For example, recipients should be mindful of automatic meter reading (AMR) technology and advanced metering infrastructure (AMI), instrumentation control systems (e.g. process control systems, distributed control systems and programmable logic controls), and security cameras and other electronic security measures to ensure that those items are procured from a non-excluded entity. Items included in the prohibition are not eligible SRF costs, and the SRF programs cannot reimburse borrowers for these costs.

The prohibition also applies to the CWSRF administrative funds (if states are billing those costs to the federal CWSRF capitalization grant) and the four DWSRF set-asides. States should be mindful of items such as cell phones, computers, and mobile WiFi routers or hotspots funded by those accounts.

If you have questions on the implementation of this grant condition, please contact Michael Deane at Deane.Michael@epa.gov or Kiri Anderer at Anderer.Kirsten@epa.gov.

Section 01310 SUBMITTALS

PART 1 - GENERAL

1.01 Requirements

A. Submit Construction Contract Schedule, Shop Drawings, samples, and manufacturers' certificates required by the Contract Documents.

1.02 Related Requirements

- A. Definitions and additional responsibilities of parties: General Conditions and Modifications to General Conditions.
- B. Submittal requirements for specific work: The respective specifications sections.

1.03 Procedures

- A. Deliver submittals to Engineer. All submittals shall include the following:
 - 1. Date and submittal number.
 - 2. Project title and number (if applicable)
 - 3. Names of contractor, subcontractor, supplier and manufacturer
 - 4. Identification of Product being supplied
 - 5. Location of where Product is to be installed
 - 6. Applicable Specification section number and / or drawing number
- B. Sequentially number transmittal letters beginning with number one. Use original number for resubmittals with an alphabetic suffix (i.e., 2A for the first resubmittal of submittal 2, or 15C for the third resubmittal of submittal 15, etc.)
- C. On Shop Drawings, identify Project, Contractor, Subcontractor, major supplier; identify pertinent Drawings sheet and detail number, and Specification section number, as appropriate. Identify deviations from Contract Documents. Provide space for Contractor and Engineer review stamps.
- D. Shop drawings submittals shall contain the Contractor's signature or stamp confirming his review of the submittal, verification of products, field measurements and construction criteria, and coordination of the information within the submittal with requirements of the Work and of the Contract Documents.

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- E. After Engineer review of submittal, revise and resubmit as required, identifying changes made since previous submittal.
- F. Distribute copies of reviewed submittals to concerned persons. Instruct recipients to promptly report any inability to comply with provisions.

1.04 Shop Drawings

- A. Present drawings in a clear and thorough manner, showing pertinent dimensions and identifying details by reference to sheet and detail, and schedules shown on the Drawings.
- B. Submit the number of copies which Contractor, subcontractor, and supplier require plus three copies for the Engineer.

1.05 Illustrations and Brochures

- A. Preparation:
 - 1. Clearly mark each copy to identify pertinent products or models.
 - 2. Show performance characteristics and capacities.
 - 3. Show dimensions and clearances required.
 - 4. Show wiring or piping diagrams and controls.
 - 5. Include special installation instructions.

1.06 Samples

- A. Samples for Selection:
 - 1. Submitted to Engineer for aesthetic, color, or finish selection.
 - 2. Submit samples of finishes in custom colors selected, textures, and patterns for Engineer selection.
 - 3. After review, produce duplicates and distribute in accordance with 1.03 Procedures above.
- B. Include identification on each sample, with full Project information.
- C. Submit a minimum of two samples, one of which will be retained by Engineer.

1.07 Manufacturer's Certification

A. Submit certificates, in duplicate, in accordance with requirements of each Specification Section.

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1.08 Notifications

- A. Notify the Engineer, in writing at the time of submission, of any deviations in the submittals from requirements of the Contract Documents. Identify deviations from contract documents BY clouding submittal drawings and itemize and detail on separate 8-1/2 by 11-inch sheets entitled "DEVIATIONS FOR ______."
- B. Notify the Engineer, in writing at the time of resubmission, of changes made on resubmittals other than those previously requested by the Engineer.

PART 2 - PRODUCTS

(If applicable, add:) All iron and steel products shall meet "American Iron and Steel" requirements.

PART 3 - EXECUTION - (NOT USED)

END OF SECTION

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Section 02610B PIPE & FITTINGS (SEWER LINES)

PART 1 - GENERAL

1.01 Work Included

- A. This section covers the material specifications for the various types of pipe and fittings called for in other sections of these specifications.
- 1.02 Related Sections Not Used
- 1.03 <u>References</u> (All reference to standard specifications shall be the latest revision to said specification)
 - A. AWWA C104 Cement-Mortar Lining for Ductile Iron Pipe and Fittings for Water
 - B. AWWA C110 Ductile-Iron and Gray-Iron Fittings
 - C. AWWA C111 Rubber Gasket Joints for Ductile-Iron Pressure Pipe and Fittings
 - D. AWWA C115 Flanged Ductile-Iron Pipe with Ductile-Iron or Gray-Iron Threaded Flanges
 - E. AWWA C150 Thickness Design of Ductile-Iron Pipe
 - F. AWWA C151 Ductile Iron Pipe, Centrifugally Cast, for Water
 - G. AWWA C200 Steel Water Pipe 6 Inch (150 Mm) and Larger
 - H. ANSI A21.11 Rubber Gasket Joints for Cast Iron and Ductile-Iron Pressure Pipe and Fittings
 - I. ANSI/ASTM A53 Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless
 - J. ANSI/ASTM A74 Cast Iron Soil Pipe and Fittings
 - K. ANSI/ASTM A123 Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products

- L. ANSI/ASTM A139 Electric-Fusion (Arc)-Welded Steel Pipe (NPS 4 and Over)
- M. ANSI/ASTM C425 Compression Joints for Vitrified Clay Pipe and Fittings
- N. ANSI/ASTM C700 Vitrified Clay Pipe, Extra strength, Standard Strength and Perforated
- O. ANSI/ASTM D1784 Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds
- P. ANSI/ASTM D2239 Polyethylene (PE) Plastic Pipe (SIDR PR) Based on Controlled Inside Diameter
- Q. ANSI/ASTM D2241 Poly (Vinyl Chloride) (PVC) Pressure Rated Pipe (SDR Series)
- R. ANSI/ASTM D2729 Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings.
- S. ANSI/ASTM D3034 Type PSM Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings
- T. ANSI/ASTM D3139 Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals
- U. ANSI/ASTM F477 Elastomeric Seals (Gaskets) for Joining Plastic Pipe

1.04 Unit Prices

A. The cost of all the pipe and fittings are to be included in the various lump sum or unit price items listed in the other sections unless specified in the Bid Schedule.

PART 2 - PRODUCTS

2.01 <u>General Requirements</u>

A. Material To Be Furnished: The inclusion of certain materials does not imply that all materials specified herein are acceptable on a particular project. The plans and actual bid items may specify particular products for a particular area of a project.

2.02 <u>Sanitary Sewer Pipe Material</u>

A. Ductile Iron Pipe AWWA C150 & 151

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- 1. As specified in Section 2.02 paragraph A.
- B. PVC (Polyvinyl Chloride)
 - 1. Have a Standard Dimension Ratio (SDR) of 35.
 - 2. Manufactured in accordance with ASTM D3034 (PSM).
 - 3. Made of plastic having a cell classification of 124454-B, 12454-C or 13364-B with a minimum tensile modules of 500,000 PSI as defined in ASTM D 1784.
 - 4. Maximum joint length of 13 feet joints to be elastomeric-gasket bell and spigot. Type: conforming to ASTM D3034. Tested with mandrel: maximum of 5% deflection.
- C. Vitrified Clay Pipe: ANSI/ASTM C700:
 - 1. Extra strength shall be used on all pipe sizes.
 - 2. Hard burned fully vitrified clay sewer pipe.
 - 3. All pipe bearing the initials or name of manufacturer and plant.
 - 4. All "extra strength" pipe marked with "ES".
 - 5. Each pipe set on end and rung before laying to determine if it is cracked.
 - 6. Joints conform to manufacturers' recommendation and be either bell and spigot or PEP joints.
 - 7. Joints to conform to ASTM C425 for compression gasket joint.
- D. Cast Iron Soil Pipe (For Service Lines Only): ASTM A74:
 - 1. Bell and spigot joints with rubber gaskets.
- E. Polyvinyl Chloride Pipe (PVC) (For Service Lines Only)
 - 1. ASTM D3034 (PSM).
 - 2. Made of plastic having a cell classification of 12454-B or 12545-C or 13369-B (minimum tensile modules of 500,000 psi) as defined by ASTM D1784. Pipe to have an SDR ratio of **21**, 26 or 35.
 - 3. Max length of pipe-13 feet.
 - 4. Joints to be elastomeric-gasket bell land spigot type conforming to ASTM D3034.
- F. Steel Encasement Pipe: ASTM A139:
 - 1. Smooth wall, welded steel pipe.
 - 2. Grade B pipe as specified in ASTM A139
 - a. Through 14"
 - b. Over 14"
 - 3. Joints to be full depth welded joints.
- G. Corrugated Metal Encasement Pipe:
 - 1. 16 gauge through 21"
 - 2. 14 gauge from 24" through 30"
 - 3. 12 gauge over 30"
 - a. Asphalt coated with type C coating.

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b. Pipe to be joined in accordance with manufacturers recommendations.

H. Pipe Accessories

- 1. Joints to be made in strict accordance with manufacturer's recommendations.
- 2. All bends, tees, adapters, wyes, or other fittings shall be of the same type of material as the pipe and meet the same type of material as the pipe and meet the same specifications unless a high standard is required elsewhere in the plans or specifications.
- 3. Use coupling or bushing adapter to join different types of pipe.
- 4. Couplings to be stainless steel, expanding and contracting sleeves with ribbed gaskets.

2.04 Force Main Pipe Material

A. Ductile Iron Pipe AWWA C150 & 151

- l. Class 50 for all push-on and mechanical joint pipe unless designated otherwise on the plans.
- 2. Class 53 for flanged fittings.
- 3. Inside coating of cement-motor lining AWWA C104.
- 4. Outside coating of varnish.
- 5. Joints Buried.
 - a. Push-on joint with rubber gaskets-AWWA C111
- 6. Joints Exposed
 - a. Mechanical joints with rubber gaskets AWWA C111
- 7. Joints Above Ground
 - a. Flanged Joints AWWA C115
- 8. Class of pipe to be stenciled on all pipes & fittings.
- 9. Fittings: AWWA C110
 - a. 2" 14": Classified @ 150 PSI unless specified otherwise on the plans or in the specifications.
 - b. Over 14": classified @ 150 PSI unless specified otherwise on the plans or in the specifications.

B. PVC (Polyvinyl Chloride)

- 1. Sizes 2" through 4" have a pressure rating of 200 PSI at 23 degrees C (73 degrees F) and have a Standard Dimension Ratio (SDR) number of **26**.
- 2. Sizes 6" and larger have a pressure rating of 200 PSI at 23 degrees C (73 degrees F) and have a Standard Dimension Ratio (SDR) number of 21.
- 3. Grade 1 Type 1 Polyvinyl Chloride plastic conforming to ASTM D1784 and CS-256.
- 4. Joints:

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- a. Gasket: Single rubber, continuous molded, ring gasket of vulcanized natural or vulcanized synthetic rubber conforming to ASTM F477 & ASTM D3139.
- b. Bell and spigot joint (couplings will not be accepted).
- c. The gasket and the angular recess shall be so designed and shaped that the gasket is locked in place against displacement as the joint is assembled. Gasket dimensions shall be in accordance with manufacturer's standard design dimensions and tolerances and shall be of such size and shape as to provide an adequate compressive force against the plain end and socket after assembly to effect a positive seal under all combinations of joint and gasket tolerances. The joint shall be designed to withstand the same pressure as required for the pipe. All plain ends should be extended into the socket. The joint shall be designed so as to provide for the thermal expansion or contraction experienced with a temperature change of at least 75°F.

5. Fittings

- a. 2" 4" push on made of the same type of material as the pipe and having the same pressure rating.
- b. 6" and larger push on cast iron or ductile fittings joint conform to AWWA C110 and C111.
- 6. Markings: Stencil the following information on all pipe and fittings.
 - a. Normal size
 - b. Type of material
 - c. SDR or class
 - d. Manufacturers Name
 - e. NSF (National Sanitation Foundation) Seal of Approval.

C. Galvanized Pipe:

- 1. Schedule 40, manufactured in accordance with ASTM A123 and ASTM A53.
- 2. Working pressure of fittings equal to or exceeding that of the pipe.
- 3. Threads: IPS.

D. Encasement Pipe:

- 1. Steel: Smooth wall, manufactured in accordance with ASTM A139 (Grade B) or AWWA C200 (Grade B), with ends prepared for welded joints.
- 2. PVC: Minimum SDR 26 Class 160.

END OF SECTION

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Section 02641 SEWAGE VALVES & GATES

PART 1 - GENERAL

1.01 Work Included

A. Providing sewage valves & gates for sewer improvements to be constructed.

1.02 Related Work

A. Section 02731 – Sewage Force Mains

1.03 Unit Prices

A. Other Valves & Gates - The cost of all other valves and gates are to be included in the various lump sum item listed in other sections unless specified in the Bid Schedule.

1.04 Reference Standards

- A. American Water Works Association (AWWA):
 - 1. AWWA C509 Resilient –Seated Gate Valves for Water Supply Service
 - 2. AWWA C508 Swing-Check Valves for Water works Service, 2 In. through 24 in.

PART 2 - PRODUCTS

2.01 Material

- A. Gate Valve with Resilient Seat:
 - 1. Conform to AWWA C509
 - 2. Design Working Pressure: 150 psi.
 - 3. Bronze mounted iron bonnet, non-rising stem, double-disc parallel seat type, O-ring stem seals.
 - 4. 2 inch x 2 inch square operating nut for mechanical joint valves and hand wheel for flanged valves.
 - 5. Valves shall open when operating nut is turned counterclockwise.
 - 6. Valves shall be as manufactured by the Mueller Company, or approved equal.
 - 7. Valves are to be either mechanical joint for buried service or flanged for above ground service.

B. Check Valves

- 1. Conform to AWWA C508.
- 2. Design working pressure: 125 psi.
- 3. Lever and weight operated.
- 4. Mueller A-2600-6-01 or A-2600-20-01
- 5. Stainless Steel Fitted.
- 6. External back flush lever.

C. Plug Valve (Eccentric)

- 1. Designed for a maximum pressure differential across valve of 75 psi.
- 2. Corrosion resistant bearing.
- 3. Resilient plug facings for dead-tight shutoff.
- 4. Multiple packing rings for a reliable seal.
- 5. Flanged ends unless specified otherwise.
- 6. Furnished with larger handwheel.
- 7. Valve shall be a Dezurik AGG 6H6 or AGG 6H12 or equal.

D. Valve Boxes

- 1. Mueller Co., #M-10364, 562-A, or equal.
- 2. Two-piece, sliding type, 5 1/4" shaft, 24-36 inch extensions.
- 3. Drop cover with word "Sewer" cast into top surface.
- 4. Box and lids must weigh at least 75 pounds.

E. Wrenches

1. Provide one (1) valve wrench for each 5 buried valves set (minimum of one wrench).

J. Fittings

- 1. Exposed Flanged fittings with 150 psi pressure rating.
- 2. Buried Mechanical fitting with 150 psi pressure rating.
- 3. All fittings to be cement lined.

END OF SECTION

Section 02645 ELECTROMAGNETIC FLOW METER

PART 1 - GENERAL

1.01 Work Included:

A. Supply and install an electromagnetic flow meter suitable for fixed-site measurement of bi-directional flow in a full pipe. The flow meter shall consist of a flow tube and a flow transmitter, which shall indicate, totalize and transmit flow. The flow tube shall use a spool piece configuration with field-interchangeable sensors containing coils and electrodes.

1.02 Unit Price:

A. Flow Meter Station. Flow meter, piping, solar panel, piping, electrical, meter box and other incidental items needed to install the flow meter as specified and as shown on the plans shall be included in the lump sum item listed in the Proposal for Flow Meter Station.

PART 2 - PRODUCTS

2.01 Acceptable Manufacturer:

- 1. AFTCO, LLC
- 2. Edress Hauser
- 3. Foxboro

2.02 Spool Piece Flow Tube and Sensors:

- A. The nominal diameter of the flow tube shall be as specified on the drawings.
- B. The spool piece flow tube shall be made of carbon steel and shall be [(epoxy enamel painted) (powder coated with a corrosion resistant electrostatic epoxy finish inside and outside, and shall include Type 316 stainless steel bolts)]². O ring seals shall be made of Viton, and standpipe gaskets shall be made of nitrile rubber.
 - 1. The flow tube shall not require an insulating liner. The flow tube liner shall be AWWA approved epoxy enamel that conforms to National Sanitation Foundation Standard 61 for use with potable water and American Water Works Association Standard C652-86 for use with potable water. Accuracy shall be not be affected by cuts or scratches in the flow tube liner.
 - 2. The flow tube shall be supplied with raised face carbon steel flanges.

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- C. Each flow sensor shall contain a coil, a pair of sensing electrodes, and an integral grounding electrode. External grounding rings and straps shall not be necessary. The sensors shall use solid state design, with the coils, electrodes, and other sensor components encapsulated in Kynar. The sensors shall be field-replaceable and field-interchangeable without the need for recalibration.
 - 1. The electrodes shall be made of [(Type 316 stainless steel)
 - 2. The flow tube shall use unipolar pulsed AC electromagnetic excitation, with typical magnetizing current of not less than 1 A base to peak, and frequency of not less than 2/3 of power supply frequency (40 Hz for a 60 Hz power supply frequency), to ensure a high signal-to-media noise ratio.
- D. The minimum media conductivity shall be 0.5 microS/cm.
- E. The maximum media temperature shall be 175 degrees F (80 degrees C).
- F. The flow meter shall include multiple sensors to measure mean velocity in full pipes.
 - 1. The mean velocity measurement range shall be 0 to 50 feet per second (0 to 15 meters per second).
 - 2. The minimum detectable mean velocity shall be 0.02 feet per second (0.006 meters per second).
 - 3. The mean velocity shall be measured with a maximum error of +/-0.005 feet per second (+/-0.0015 meters per second) over a range of less than 1 foot per second (0.3 meters per second), and +/-0.5% of flow rate over a range of 1 to 50 feet per second (0.3 to 15 meters per second). A mean velocity of 0.1 foot per second (0.03 meters per second) shall be measured with a maximum error of +/-5% of reading. Accuracy shall be traceable to the US National Institute of Standards and Technology (NIST), and shall be guaranteed on-site for applications such as drinking water, raw sewage, and similar media, even with a permanent coating of raw sewage or similar on the electrodes, provided that specification parameters and installation recommendations are met. A NIST traceable calibration certificate shall be provided with each flow meter.
 - 4. The temperature coefficient shall be less than 0.05% per 10 degrees F (0.09% per 10 degrees C).
 - 5. A non-full pipe condition shall be indicated by a user-supplied signal into one of the contact inputs on the flow transmitter.
 - 6. Maximum pressure shall be 150 psi.
- G. The wiring from the flow transmitter to the sensors shall be 2 separate 2-conductor cables, 18 gauge (0.75 mm²), twisted and shielded

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- H. The flow tube and sensors shall exceed the NEMA 6P (IP68) submersibility standard, and shall be submersible to 33 feet (10 m).
- I. The flow tube shall have a 10-year warranty, and the sensors a 5-year warranty.
- J. The flow tube assembly shall be certified to conform with UL and CSA standards for use in ordinary locations, and in Class 1 Division 2 explosive areas, with the transmitter to be located adjacent to the meter

2.03 Flow Transmitter

- A. The flow transmitter shall be microprocessor-based, and shall contain a keypad and a 2 line, 32 character, backlit alphanumeric liquid crystal display (LCD) with characters 0.3 in. (8 mm) high and 0.2 in. (5 mm) wide. The LCD shall visually prompt the user through the programming sequence, and the flow transmitter shall include a built-in help system. The LCD shall display flow rate and/or total flow in user-selectable units of measure. The flow transmitter shall be capable of displaying forward, reverse, net and grand total flows, and the totalizers shall be resettable or non-resettable.
- B. The flow transmitter shall have an input impedance of 10^{12} ohms.
- C. The flow transmitter shall include 2 isolated contact inputs, activated by contact closure or transistor, programmable to acknowledge alarms, reset totalizers, select the current flow rate range in forward flow/multi range mode, or indicate non-full pipe condition, rated 25 volts DC, 15 mA.
- D. The flow transmitter shall include an isolated, internally powered 4 to 20 mA output into a maximum of 500 ohms. The 4 to 20 mA output shall be programmable to operate in either forward flow rate, forward flow rate/multi range, bidirectional flow rate, or bidirectional flow rate/split range mode.
 - 1. In forward flow rate mode, 4 mA shall represent zero flow rate, and 20 mA shall represent the programmable maximum forward flow rate.
 - 2. In forward flow rate/multi range mode, up to 3 different flow rate ranges shall be programmable, with the current range selected by user-supplied signals applied to the contact inputs.
 - 3. In bidirectional flow rate mode, independent maximum forward and reverse flow rates shall be programmable, with flow direction indicated by a relay output.
 - 4. In bidirectional flow rate/split range mode, 4 mA shall represent the programmable maximum reverse flow rate, 12 mA shall represent zero flow rate, and 20 mA shall represent the programmable maximum forward flow rate.

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- E. The flow transmitter shall include a 2 wire solid state pulse output, internally powered, rated 25 volts DC, 80 mA. The pulse output shall be programmable to operate in either scaled or frequency mode.
 - 1. Scaled mode shall be used for totalizing, with a programmable maximum frequency of 5, 10 or 100 Hz and a corresponding pulse width of 100, 50 or 5 ms, respectively.
 - 2. Frequency mode shall be used for rate indication, with a square wave output programmable from 0 to 1,000 Hz to 0 to 10,000 Hz.
- F. The flow transmitter shall include 2 isolated, normally open relay contacts, activated based on reverse flow, high or low flow rate, total flow, or diagnostic errors, rated 60 volts DC, 30 volts AC RMS, 3 A resistive.
- G. The flow transmitter shall be Factory Mutual (FM) Approved for use in ordinary locations. The flow transmitter shall be CE Marked.
- H. The flow transmitter shall operate on [(120 VAC, 50/60 Hz) (240 VAC, 50/60 Hz)]¹² line power. Typical power consumption shall be 10 W, including the sensors.
- I. The flow transmitter shall be housed in a rugged, watertight, dust-tight, corrosion resistant (NEMA 4X and IP65) cast aluminum, epoxy painted enclosure suitable for conduit connections. The enclosure shall include a polycarbonate window for viewing the LCD without opening the enclosure.
- J. The flow transmitter shall have a 2-year warranty.

PART 3 - EXECUTION

3.01 Delivery

- A. Examine flow meters when delivered to make sure that all components have been delivered.
- B. Examine flow meters for damage prior to installation and immediately notify Engineer of any damage that has occurred.
- C. User instructions must be given to the owner.

3.02 Excavation

A. Excavate earth and other material necessary to provide sufficient space to install the flow meter station.

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B. Provide sheeting, shoring, and piling necessary to retain the sides so that the excavation can be completed.

3.03 Installation

A. Install flow meter, controls and solar panel in accordance with manufacturer's instructions.

3.04 Backfill Requirements

- A. Backfill as soon as the station is set with suitable material as determined by the Engineer.
- B. Compact to 90% of the maximum Standard Proctor Density. Backfill must be compacted in lifts not to exceed one foot to reach a final Proctor Density of 90%. The finish grade line shall slope away from the flow meter station.
- C. Provide additional fill material as needed to fill the site to the elevations specified.
- D. Remove excess or unsuitable material from site.
- E. All restoration will be the responsibility of the contractor. Per unit costs for this item shall be included in the contractor's bid price for the individual grinder pump station. The properties shall be restored to their original condition in all respects, including, but not limited to, curb and sidewalk replacement, landscaping, loaming and seeding, and restoration of the traveled ways, as directed by the engineer.

3.05 Clean-Up

- A. Remove all trash and debris from site.
- B. Clean pumps and equipment as necessary

END OF SECTION

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Section 02661 FORCE MAIN TRACING FACILITIES

PART 1 - GENERAL

1.01 Work Included

- A. Furnish and install copper tracing wire around pipe so that the PVC water line can be located at a later date.
- B. Furnish and install PVC wire risers.
- C. Furnish pipe locator.
- D. Furnish and install detectable underground warning tape on main lines.

1.02 Related Work

A. Section 02731 – Sewage Force Main

1.03 Unit Price

- A. <u>Tracing Wire & Detectable Underground Warning Tape</u>: Completed and accepted force main tracing wire shall be paid for as part of the unit price bid per linear foot for the various sizes and type of pipe line. Which price shall be full compensation for furnishing the material, installing the material, completing spot checks to make sure the equipment works, and for all labor, tools, equipment and incidentals necessary for a complete installation.
- B. <u>Trace Wire Risers</u>: Completed and accepted trace wire risers shall be paid for as part of the unit price bid per linear foot for the various sizes and type of pipe line. Which price shall include furnishing the wire, PVC pipe and junction box at the end of the riser.
- C. <u>Pipe Locator Equipment</u>: The contractor shall furnish pipe locator equipment for use with the trace wire. Payment shall include the cost of the transmitter, receiver, and miscellaneous equipment necessary to use the equipment with the trace wire specified.

PART 2 - PRODUCTS

2.01 Trace Wire

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- A. Furnish 10 gauge solid copper wire with insulation.
- B. Provide wire in rolls sufficient in length to eliminate all wire splices in the ground.

2.02 <u>Pipe Riser</u>

- A. Furnish one (1) inch schedule 40 PVC Pipe Riser.
- B. Furnish junction box to be attached to end of pipe with removable cover.

2.03 Pipe Locator

- A. Equipment shall be Metrotech, Model 480 Pipe and Cable locator as manufactured by Metrotech of Mountain View, California or approved equal.
- B. Transmitter:
 - (1) Inductive mode 100 mW avg. (6.2 V p-p across loop).
 - (2) Conductive mode 125 mW avg. (130 V p-p across 2.7 K ohms).
 - (3) Output Frequency 83 KHz, modulated @ 385 Hz.
 - (4) Battery Type Six size "C" alkaline cells.
 - (5) Battery Life 400 hours average.
 - (6) Size Approximately 12" x 9" x 3".
 - (7) Weight Less than 5 lbs.

C. Receiver:

- (1) Nominal Sensitivity at Loop.
 - (a) Low Range 4 microvolts p-p.
 - (b) Med Range 44 microvolts p-p.
 - (c) High Range 0.0044 microvolts p-p.
- (2) Headphones Provide headphones with 2 K ohms impedance or less.
- (3) Battery Type Six size "C" alkaline cells.
- (4) Size Approximately 12" x 9" x 3".
- (5) Weight Less than 5 lbs.

2.04 Detectable Underground Warning Tape

- A. Warning tape to consist of 5 mil overall thickness, with a 0.35mil solid aluminum foil core. The construction is a 0.8 mil clear film, reverse printed with a repeating warning message and laminated to foil core with a 3.75 mil clear film backing.
- B. The lettering on tape shall be a minimum height of 1 inch and permanently printed.

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- C. Tape shall be green according to APWA color code and labeled for sewer application.
- D. Detectable marking tape shall conform to the following specifications as applicable for the intended end use:
 - 1. NTSB-PSS-73-1
 - 2. GSA Public Building Service Guide
 - 3. American Gas Association 72-D-56
 - 4. API RD 1109
 - 5. OSHA 1926.956 (c) (1)
 - 6. APWA Uniform Color Code
 - 7. DOT Office of Pipeline Safety USAS B31.8
 - 8. Federal Gas Safety Regulations S 192-321 (e)

PART 3 - EXECUTION

3.01 Trace Wire Placement

- A. Install wire as line is being laid.
- B. Wrap trace wire around pipe at least 1 time per joint of pipe.
- C. Connect all wires in trace wire risers. No buried splices will be allowed.
- D. Install wire risers a minimum of every 1,000 feet.

3.02 Trace Wire Risers

- A. Install a 1 inch PVC riser pipe that extends from the water line to 18 inches above the ground.
- B. Either screw or glue on a junction box on the exposed end of the PVC riser pipe.
- C. Thread both wires through the riser pipe and junction box so that they extend out through the junction box a minimum of 4 inches.
- D. Strip the last 1/2" of insulation from the wires.
- E. Fold the wire back into the junction box and replace junction box cap.

3.03 <u>Maintenance of Trace Wire Risers</u>

A. Maintain the trace wire risers until the completed project is accepted.

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B. Replace all trace wire risers that are damaged prior to the final inspection regardless of how or by whom they were damaged.

END OF SECTION

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Section 02731 SEWAGE FORCE MAINS

PART 1 - GENERAL

1.01 Work Included

- A. Supply and install force mains.
- B. Supply and install the associated valves.

1.02 Related Work

- A. Section 02610B Pipe & Fittings (Water & Sewer)
- B. Section 02641 Sewage Valves & Gates
- C. Section 11304 Grinder Pump Station
- D. Section 11307 Package Sewage Pump Station
- E. Section 11308 Effluent Pump Station

1.03 Unit Prices

- A. Pipe Lines: Completed and accepted pipe line will be measured by the linear foot of pipe with the total length of each segment being determined by measuring parallel to the far end of the last pipe section laid. Measurement will be made through valves and fittings. Payment will be made at the unit price bid per linear foot for the various sizes and type of pipe line which price shall include excavation and backfill for pipe line, the gaskets and lubricant, fittings, blocking, and all other materials, labor, tools, equipment, and incidentals necessary to complete the work.
- B. <u>Gate Valves</u>: Complete work of providing gate valves and valve boxes will be measured on a per each basis and will be paid for at the unit price bid per each for "Gate Valve w/Box" of the sizes listed in the Bid Schedule, which price shall be full compensation for excavation and backfill, concrete for thrust blocking, if necessary, and all materials, labor, tools, equipment, and incidentals necessary to complete the Work.
- C. <u>Air & Vacuum Valves and Air Release Valves</u>: Completed work of providing either valve will be measured on a per each basis and will be paid for at the unit price for "Air & Vacuum Valves" or "Air Release Valves" of the sizes

listed in the bid schedule or as shown on the drawings, which price shall be full compensation for excavation, backfill, concrete, valve and lid, and all materials, labor, tools, equipment, and incidentals necessary to complete the Work.

- D. Roadway and Railroad Bore: Completed and accepted bore and encasement pipe installation will be measured on a linear foot basis and will be paid for at the unit price bid per linear foot for bore and encasement pipe of the size and type of encasement pipe designated for each crossing, which price shall be full compensation for furnishing and installing encasement pipe; for excavating and backfilling; for final grading and clean-up; and for all labor, materials, tools, equipment, and incidentals necessary to complete the Work.
- E. <u>Pavement Repairs</u>: Completed and accepted Work of cutting and replacing asphalt and concrete pavement will be measured on a per square yard basis and will be paid for at the unit price bid per square yard for "Asphalt and Concrete Drive Repair". Maximum pay width for repair will be 36 inches plus the nominal diameter of the pipe. All repairs beyond the maximum pay width shall be repaired at the Contractor's expense. The unit price for each type of paving repair shall include all labor, materials, tools, equipment and incidentals necessary to cut and replace the pavement.
- F. <u>Gravel Surface Repairs</u>: Completed repairs of gravel-surfaced drives and streets will be paid for by the cubic yard of gravel used which price shall be full compensation for all labor, tools, materials, equipment, and incidentals necessary to complete the work. Payment will be based on gravel tickets submitted by the Contractor and verified by the Engineer.
- G. <u>Adaptor From PE to PVC</u>: The Contractor will not be paid extra for fusing a fitting onto a PE pipe and the mechanical joint adaptor necessary to connect to a PVC or DI pipe. This includes PE fitting, mechanical joint fitting, and the necessary time and materials for a complete transition from fused PE pipe to mechanical joint PVC or ductile iron pipe. The cost for this item shall be included in:
 - 1. Lump sum bid of package lift station, effluent station or grinder station as required.
 - 2. Unit price bid per linear foot for the various sizes and type of pipe line.

PART 2 - PRODUCTS

2.01 Materials, Pipe

A. Pipe - Refer to Section 02610B – Pipe and Fittings.

- B. Concrete: Refer to Section 03001.
- C. Gate Valves: Refer to Section 02641 Sewage Valves and Gates.
- D. Air Release Valves: Refer to Section 02641 Sewage Valves and Gates.
- E. Air & Vacuum Valves: Refer to Section 02641 Sewage Valves and Gates.

2.02 Water

A. The Contractor is to furnish the water needed for filling, flushing and testing the lines.

PART 3 - EXECUTION

3.01 Coordination & Protection

- A. Notify operator 24 hours prior to disrupting any existing sewer service.
- B. Expose other utilities in congested areas by hand.
- C. Protection of Vegetation: The contractor shall not remove or disturb any vegetation except that required for the excavation of the Work. In developed areas the contractor shall protect all shrubs, bushes, trees and flowers. Landscape plants damaged by the Contractor shall be replaced at the Contractor's expense.
- D. Clearing Right-of-Way: In undeveloped areas, the Contractor shall clear enough brush and small trees to allow the Contractor to install the pipe. If the Contractor cannot install the pipe without removing merchantable timber, the Contractor shall notify the Engineer prior to clearing the right-of-way.
- E. Disposal of Brush: All brush, damaged trees, stumps and other debris are to be removed from the pipeline right-of-way prior to final inspection and disposed of in a method acceptable to the Engineer's satisfaction.
- F. Removal and Replacement of Fence: It is the Contractor's responsibility to remove and replace any fences which interfere with the Work. Temporary fencing shall be maintained if necessary for the control of livestock until permanent fences can be reconstructed.
- G. Location and Protection of Utilities and Structures: The approximate location of surface and subsurface structures known to the Owner are shown on the plans. This information is shown for the guidance of the Contractor and the

Owner does not guarantee the accuracy or correctness of the locations of such structures as shown. Furthermore, there may be structures that are not shown. It shall be the responsibility of the Contractor to satisfy himself as to the actual location and nature of subsurface structures.

The Contractor shall make necessary exploratory excavations to determine the location of underground structures such as pipes, drains, conduits, and other structures. He shall be responsible for contacting the Owners of such structures before excavating in the vicinity of these facilities and shall be guided by their instructions.

3.02 Excavation - Trench

- A. Excavate to lines and grades shown on Drawings or as established at the site.
- B. Minimum trench width measured at the pipe springline shall be four (4) inches greater than the outside diameter of the pipe. Maximum trench width at the top of the pipe shall not exceed the outside diameter of the pipe plus two feet.
- C. If the above defined trench widths must be exceeded or if the pipe is installed in a compacted embankment, pipe embedment shall be compacted with mechanical tampers to a point at least 2.5 pipe diameters from the pipe on both sides of the pipe or to the trench walls, whichever is less.
- D. Excavate to depth that will provide minimum 30 inch cover over top of pipe. Where required by land owner, the minimum cover shall be 36 inches. The extra work shall be performed at no additional expense to any party.
- E. Do not excavate more than 300 feet ahead of pipe installation and backfill.
- F. Pile excavated material in manner that will not endanger the work and that will avoid obstructing sidewalks and driveways. Keep street and drainage swales clear or make other satisfactory provisions for street drainage.
- G. Dispose of excess material unsuitable for backfilling in a manner approved by the Owner.

3.03 Bedding and Backfilling of Pipe

- A. Bedding of Pipe:
 - 1. Grade trench bottom or bedding material to provide support of the full length of the pipe.
 - 2. Trench bottom is to be smooth and free of stones greater than 1/2" in diameter.
 - 3. Lay pipe as specified in this section.

B. Backfilling Trench:

- 1. Begin backfilling immediately after pipe laying and embedment.
- 2. Backfill trenches not under structures or paved area with material from trench excavation or other approved material.
 - a. Do not use material of a perishable, spongy, or otherwise unsuitable nature.
 - b. Do not place rocks larger than 1-1/2 inches in greatest dimension within 12 inches of top of pipe.
 - c. Leave trench slightly mounded above top of pipe to allow for settlement.
- 3. Under structures or paved areas, backfill trench from the top of the initial bedding to the top of subgrade with select material or other approved cohesive material:
 - a. Place material in uniform layers of not more than 6-inch loose thickness and compact each layer up to a point twelve (12) inches below subgrade to a density of 95% of optimum standard proctor density as determined by ASTM D698.
 - b. Compact remaining 12 inches to 98% of the maximum density.

C. Maintaining Trenches:

- 1. Maintain top of trenches during guarantee period of contract, adding material as backfill material settles.
- 2. Maintain road and sidewalk crossings until pavement has been replaced.

3.04 Laying Pipe

A. General:

- 1. Carefully inspect each joint of pipe before it is placed in trench, makings sure no foreign material is inside pipe.
- 2. Lower pipe carefully into trench one length at a time in such a manner that spigot and bell will not become contaminated.
- 3. If cutting of pipe is necessary, make cut straight and smoothly without damage to pipe, removing all burrs.
- 4. Lay pipe with bell facing direction of laying.
- 5. Do not allow deflection at joints to exceed the maximum deflection recommended by pipe manufacturer.
- 6. At end of each day's work or when laying of pipe must be discontinued for a significant period, close open ends of pipe temporarily to prevent foreign matter and water from entering.

B. Jointing Push-on Pipe:

1. Check inside of pipe barrel for cleanliness.

- 2. Thoroughly clean bell and spigot ends of pipe, especially the gasket seat
- 3. Clean and insert rubber gasket in seat within bell.
- 4. Apply lubricant as recommended by pipe manufacturer.
- 5. Insert spigot end into bell of pipe to which connection is being made and force to firm contact with shoulder of bell.
- 6. All cut pieces of pipe that enter a push-on bell are to be beveled at 30 degrees for at least 1/8 inch.
- C. Jointing Flanged Joint Pipe and Fittings.
 - 1. Thoroughly clean faces of all flanges and remove all burrs or imperfections with a steel brush.
 - 2. Place rubber gasket of 1/16 inch minimum thickness between flanges.
 - 3. Clean and lubricate all bolts and nuts prior to tightening.
 - 4. Prevent strain on flanges when aligning and tightening bolts.
 - 5. Tighten bolts alternately on opposite sides to the torque recommended by manufacturer.

F. Fusion Welding PE Pipe.

1. Selected workman, who perform all fusion welding, shall be qualified by training and testing as a Fusion Welder for PE 2306 Plastic pipe in accordance with state regulations. This person or persons may show qualification by presenting to the Engineer a card or Certification certificate from a major Gas Distribution Company, a recognized testing firm or the Manufacturer of the plastic pipe system being used on this project. This certification shall be dated within the past six months.

3.05 Roadway and Railroad Bores

- A. Bore and encase all roadway and railroad crossings designated on the plans.
- B. Encasement must be jacked into a bored tunnel. Contractor shall not use an excessive amount of water that will wash out voids or holes under the road. No roadways designated on the plans to be bored will be open cut.
- C. Encasement pipe for all state highway and railroad crossings will be steel or PVC pipe. Encasement pipe for all county roads designated on the plans to be bored may be SDR 26 Class 160 PVC pipe.
- D. Cables or jacks shall not be in direct contact with the casing but shall be padded.

3.06 Concrete Thrust Blocks

- A. General: Brace securely against undisturbed earth to hold in correct position all changes in direction of the pipe line, plugs, elbows, plugged tees, valves on the end of lines, and reducers. Brace by pouring blocks of concrete as shown on Detail Drawings. Use concrete having a 28-day compressive strength of at least 3,000 psi.
- B. Place concrete for thrust blocks against undisturbed soil and on dry bottom excavation. Hand shape the excavation and remove loose material. Use forms to confine the concrete to the areas needed.
- C. Do not place concrete around any part of a pipe so that it interferes with the removal of any pipe accessories such as bolts, followers, threads, collars, and couplings.
- D. Do not place concrete when temperature is below 40 degrees F. and dropping or below 35 degrees F. if the temperature is rising.
- E. Do not place backfill over concrete thrust blocks before the concrete has attained initial set.
- F. Do not install thrust blocks with less than 6 inches between the pipe or appurtenance and undisturbed soil in the direction of thrust.
- G. Clean surfaces of pipe or appurtenances where concrete is to be in direct contact.
- H. For vertical bends, ensure that thrust blocks are adequate to resist the thrust by mass alone when the thrust is upward.

3.07 <u>Valve Installation</u>

A. Install the valves as shown on the drawing in accordance with Section 02641 of these Specifications.

3.08 Hydrostatic and Leakage Test

A. General: After the pipe lines or isolated sections of the lines have been filled with water, perform hydrostatic and leakage tests in the presence of the Engineer and in conformance with the requirements of AWWA C600. Furnish all necessary pressure gauges, meters, and pumps. Make all taps and connections necessary to perform the tests.

- B. The test shall be at such a pressure that no part of the line shall have a pressure less than 100 pounds per square inch, or less than 50% above normal working pressure, whichever is greater. The duration of the hydrostatic test shall be two (2) hours or as specified by the Engineer.
- C. Leakage Test: After the hydrostatic test has been made, make a leakage test under the same pressure conditions as specified for the hydrostatic test. Each leakage test shall be of two (2) hours duration or longer, if necessary, to satisfy the Engineer that leakage in the line meets the specifications.
- D. The construction of the line shall be such that leakage shall be no greater that the allowable leakage as required in AWWA Specification C605-13, section 10.3.6. The maximum leakage per hour shall be as calculated from the following formulas:
 - 1. All Rubber Gasket or O-Ring Joints: Q=LD(P)^{0.5} / 148,000
 - Q = quantity of makeup water in gallons per hour
 - L = length of pipe section being tested, in feet
 - D = nominal diameter of the pipe, in inches
 - P = average test pressure during the hydrostatic test in pounds per square inch (gauge)
- E. If any test of pipe laid discloses leakage greater than the allowable leakage as calculated from the above formula, the Contractor shall, at his expense, locate the leak or leaks and perform whatever work and/or replace whatever material that is required in order to remedy the defect and stop the leak. All corrective work shall be approved by the Engineer.
- F. Stop all known leaks regardless of this test requirement.
- G. Retest after repair and place the system in service.

3.09 Cleaning up

A. During construction and after the construction work is completed, clean up all rubbish, debris and unused material and remove to a point designated by the Engineer. Restore all sidewalks, streets, pavement and other property, private or public, disturbed or damaged, to the former condition to the satisfaction of the Owner.

END OF SECTION

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Section 03001 CONCRETE WORK

PART 1 - GENERAL

1.01 Work Included

- A. Formwork, complete with required shoring, bracing and anchorage.
- B. Concrete reinforcing, complete with required supports, spacers, and related accessories.
- C. Cast-in-place concrete.

1.02 Payment

A. Unless a pay item is included in the bid schedule, the cost of the concrete work shall be included in the other lump sum or unit price items.

1.03 Quality Assurance

- A. Perform cast-in-place concrete work in accordance with ACI 301, unless specified otherwise in this Project Manual.
- B. Keep copy of ACI 301-72 (latest edition) in field office for duration of project.

1.04 <u>Testing Agency</u>

- A. Field testing of the concrete mix will be performed by an independent testing laboratory.
- B. Provide free access to work and cooperate with the appointed laboratory.
- C. Tests of cement and aggregates may be performed to ensure conformance with requirements stated herein.
- 1.05 <u>Reference Standards</u> (All reference to standard specifications shall be the latest revision to said specification)
 - A. ACI-301-72 (Latest Revised Edition), Specifications for Structural Concrete for Buildings.
 - B. ACI Manual of Concrete Practice, Parts 1, 2 and 3.

- C. ANSI/ASTM A1064– Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete
- D. ANSI/ASTM A615 Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement
- E. ANSI/ASTM C31 Making and Curing concrete Test Specimens in the Field
- F. ANSI/ASTM C33 Concrete Aggregates
- G. ANSI/ASTM C39 Test Method for Compressive Strength of Cylindrical Concrete Specimens
- H. ANSI/ASTM C42 Test Method for Obtaining Testing Drilled and Sawed Beams of Concrete
- I. ANSI/ASTM C94 Ready-Mixed Concrete
- J. ANSI/ASTM C150 Portland Cement

1.06 Environmental Requirements

- A. Allowable Concrete Mix Temperatures: ACI 301-72
 - 1. Cold Weather: Minimum 35° F and rising or Minimum 40° F and falling.
 - 2. Hot Weather: Maximum 100° F if falling or Maximum 95° F and rising.
- B. Do not place concrete during rain, sleet, or snow, unless protection is provided.
- C. Keep accurate thermometer in area where work is proceeding.

PART 2 - PRODUCTS

2.01 Cement

- A. Portland Cement: ASTM C150, Type 1.
- B. Use one brand and type of cement throughout project unless otherwise specified.

2.02 Admixtures

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- A. Add air entraining agent as indicated in ACI 301, Table 3.4.1.
- B. Use of accelerating admixtures such as salts, chemicals, or other foreign materials in cold weather will not be allowed. Use no other admixtures without prior approval of the Engineer.
- C. Use of set-retarding admixtures during hot weather will not be allowed.

2.03 Strength (ACI 301 3.2)

A. Provide concrete of following strength: Compressive Strength (28 Day): 3,000 psi, except where noted otherwise in the Contract Documents.

2.04 Air Entrainment

A. Add air entraining agent to concrete mix for concrete work exposed to exterior.

2.05 <u>Slump</u>

- A. Contractor shall provide slump cone and test slump for each load of concrete.
- B. Minimum slump for all concrete work: Three (3) inches.
- C. Slump for consolidation by vibration: Four (4) inches maximum.
- D. Slump for slabs and consolidation other than by vibration: Five (5) inches maximum.

2.06 Proportions (ACI 301 3.8)

- A. Selection of proportions for normal weight concrete: Method 1, Method 2, or Method 3, Contractor's Option.
- B. Fine aggregate shall conform to the requirements of ASTM C33, latest edition, and shall consist of clean, fresh water sand graded uniformly to conform to paragraph 4 of ASTM C33.
- C. Coarse aggregate shall conform to the requirements of ASTM C33, latest edition, using standard grading size 1-1/2" to No. 4 of washed gravel or crushed stone meeting requirements above and soundness requirements of ASTM C33.
- D. Water: Clean and free of injurious amounts of oils, acids, alkalis, organic materials, or other deleterious substances.

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2.07 Reinforcing Steel (ACI 301 5.2)

- A. Reinforcing Steel: 60 ksi yield grade; deformed billet steel bars, ASTM A615; plain finish.
- B. Welded Steel Wire Fabric: Plain type, ASTM A1064; in coiled rolls, plain finish, 6x6 W1.4 or 6x6 W2.9 x W2.9 as shown on drawings.

PART 3 - EXECUTION

3.01 General

- A. Notify Engineer at least 24 hours before the planned time to pour concrete.
- B. Inspection:
 - 1. Ensure that excavations and form work are completed and within the allowed tolerances.
 - 2. Ensure that ice and excess water are removed, no frost is present, and ground is not frozen.
 - 3. Check that reinforcement is secured in place.
- C. Install concrete work in accordance with ACI 301 except as amended by this Section.

3.02 Formwork (ACI 301 4.2)

- A. Obtain Engineer's review for use of earth forms. When using earth forms, hand-trim sides and bottoms, and remove loose dirt prior to placing concrete.
- B. Tolerances for Formed Services: Comply with ACI 301, Table 4.3.1

3.03 Form Surfaces Preparation (ACI 301 4.4)

A. Apply form release agent on formwork in accordance with manufacturer's recommendations. Apply prior to placing reinforcing steel, anchoring devices and embedded parts.

3.04 <u>Finishing Formed Surfaces</u>

A. Formed Surface Finishes: Provide rough form finish (ACI 301 10.2.1) at all surfaces not exposed to view. Provide smooth rubbed finish (ACI 301 10.3.1) at all surfaces exposed to view.

3.05 Removal of Forms (ACI 301 4.5)

A. Do not remove forms, shores, and bracing until concrete has gained sufficient strength to carry its own weight, construction loads, and design loads which are liable to be imposed upon it. Verify strength of concrete by compressive test results.

3.06 Placing Reinforcing

- A. Reinforcing shall be unpainted and uncoated, free from rust or scale and shall be cleaned and straightened before being shaped and in position.
- B. Position reinforcing accurately and tie securely.
- C. Support footing reinforcement on concrete brick bats or concrete grout at maximum three (3) feet on center each way to insure proper depth from bottom.
- D. Wire dowels to longitudinal bars and place top bars.
- E. Provide three (3) inches of concrete between reinforcing and the ground, unless detailed otherwise, where concrete is poured against the ground.
- F. If, after removal of forms, concrete surfaces are to be in contact with the ground or exposed to the weather:
 - 1. Bars larger than No. 5: Protect with 2 inches of concrete.
 - 2. No. 5 Bars and Smaller: Protect with 1-1/2 inches of concrete.
- G. Concrete covering for any reinforcing at surfaces not exposed directly to the ground or weather: Protect with 1-1/2 inches of concrete.

3.07 <u>Mixing Concrete</u>

- A. Concrete shall be ready-mix and shall conform to ASTM C94, latest issue.
- B. Concrete shall be mixed until there is a uniform distribution of the materials and the mass is homogeneous in consistency and color.

3.08 Placing Concrete

- A. Convey concrete from mixer to final position by method which will prevent separation or loss of material.
- B. Maximum height of concrete free fall: Sixty (60) inches.

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- C. Regulate rate of placement so concrete remains plastic and flows into position.
- D. Deposit concrete in continuous operation until panel or section is completed.
- E. Do not use concrete that has set and do not re-temper or use concrete that has been mixed for more than 1-1/2 hours.

3.09 Consolidating Concrete

- A. Use mechanical vibrating equipment for consolidation.
- B. Vertically insert and remove hand-held vibrators at points 18 inches to 30 inches apart, inserting to within 6 inches of bottom of freshly poured concrete.
- C. Do not use vibrators to transport concrete in forms.
- D. Minimum vibrator frequencies: 6,000 impulses per minute.
- E. Vibrate concrete minimum amount required for consolidation.
- F. Make sure the concrete is thoroughly worked around the reinforcing, the embedded items, and into corners of the forms.

3.10 Curing

A. Cure tops of foundations: Use moisture-retaining coverings as approved by the Engineer in accordance with ACI 308.

3.11 Welding (ACI 301 5.3)

A. Welding Reinforcing Steel: Not Allowed.

3.12 Construction Joints

A. Install construction joints in accordance with ACI 301 6.1.

3.13 <u>Inserts, Embedded Parts and Openings</u>

- A. Provide formed openings where required for pipes, conduits, sleeves and other work to be embedded in and passing through concrete members.
- B. Coordinate work of other sections and cooperate with trade involved in forming and setting openings, slots, recesses, chases, sleeves, bolts, anchors, and other inserts.

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3.14 Repair of Surface Defections (ACI 301 9.1)

- A. Allow Engineer to inspect concrete surfaces immediately upon removal of forms.
- B. Modify or replace concrete not conforming to required lines, detail, and elevations.
- C. Repair or replace concrete not properly placed resulting in excessive honeycombing and other defects. Do not patch, repair, or replace exposed architectural concrete except upon express direction of Engineer.

3.15 Field Quality Control

- A. Three (3) concrete tests cylinders will be taken by the testing laboratory for every 50 cubic yards, or fraction thereof, of concrete placed. Not less than one (1) set of test cylinders shall be taken for each day's pour.
- B. Compression Test Cylinders: Test cylinders shall be cast on the project site by the contractor.
 - 1. Make cylinders according to ASTM C31.
 - 2. Make additional sets of test cylinders for curing under job conditions:
 - (a) When it is needed to determine when to remove forms.
 - (b) When to put a structure into service.
 - (c) When temperature extremes are expected during the curing period.
 - 3. Make test cylinders in the presence of the Engineer.
 - 4. Properly mark prepared test cylinders and fill out the card supplied by the testing laboratory with instructions on when to make test breaks and where to send the test results.
 - 5. Transport in a protected condition, each set of prepared and marked test cylinders to the designated testing laboratory for curing and testing as soon as the cylinders can be transported without damage.
- C. Compression Testing Concrete Cylinders ASTM C39: by commercial testing laboratory.
 - 1. Cure cylinders in laboratory until time for testing.
 - 2. Test each set of cylinders at 7 days, 14 days, and 28 days after pouring.
 - 3. Tabulation of breakage schedule and action: Specified Strength of 3,000 psi at 28 Days

<u>Test Break</u> <u>Action</u>

7 Day: Less than 2400 psi Contractor notify Engineer 2400 - 3000 psi Break 28 Day Cylinder

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	Over 3000 psi	Stop Testing
14 Day:	Less than 3000 psi 3000 to 3500 psi Over 3500 psi	Contractor notify Engineer Break 28 Day Cylinder Stop Testing
28 Day:	Less than 3000 psi	Contractor to notify Engineer; investigate reason for low break and report in writing to Engineer.

- 4. For testing cylinders for specified compressive strength other than 3,000 psi, see the Engineer.
- D. In case of low compression test results:
 - 1. Engineer will have the right to order change in the mix design, costs to be borne by the Contractor.
 - 2. Engineer will have the right to order core tests of the concrete in accordance with ASTM C42, or load tests of the structure, the costs to be borne by the contractor for either test.

3.16 Protection of Completed Work

A. During curing period, protect the concrete from damaging mechanical disturbances, water flow, loading, shock, and vibration.

END OF SECTION

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Section 11304 PACKAGE GRINDER PUMP STATION

PART 1 - GENERAL

1.01 Work Included

- A. Excavate and dewater of pump station pit.
- B. Supply and install complete factory-built and tested grinder pump station, each consisting of a grinder pump core suitably mounted on an integral stand of stainless steel, tank, electrical quick disconnect (NEMA 6P), pump removal harness, discharge assembly/shut-off valve, anti-siphon valve/check valve assembly, electrical alarm assembly and all necessary internal wiring and controls and incidental items.
- C. For ease of serviceability, all pump motor/grinder units shall be of like type and horsepower throughout the system.

1.02 Related Work

- A. Section 02610B Pipe & Fittings (Water & Sewer)
- B. Section 02731 Sewage Force Main
- C. Section 03001 Concrete Work

1.03 Unit Price

A. The contractor will be paid for the installation of the package grinder pump station, including pump, fittings, valves, electrical, tank, appurtenances and other incidental items needed to install the package grinder station as specified and as shown on the plans. All items shall be included in the lump sum item listed in the Proposal for Package Grinder Pump Station.

1.04 Pre-Bid Submittals

- A. Manufacturers other than the manufacturer specified must have their submittals in the Engineer's office ten (10) days prior to the bid opening.
- B. Submittals must include:
 - 1. A complete description of any changes that will be necessary to the system design

- 2. A system hydraulic analysis based on the proposed pump (including pipe sizes, flows, velocities, retention times and number and location of recommended valves and cleanouts, if any)
- 3. A list of exceptions to this specification
- 4. Demonstration of compliance to Section 1.05 Experience Clause of this specification.
- 5. Supplier must complete a Manufacturer Disclosure Statement indicating all aspects of the proposed alternate that do not conform to specification.
- 6. If the equipment differs materially or differs from the dimensions given on the Drawings, the contractor shall submit complete drawings showing elevations, dimensions, or any necessary changes to the Contract Documents for the proposed equipment and its installation.
- 7. If the Engineer's approval is obtained for Alternate Equipment, the contractor must make any needed changes in the structures, system design, piping or electrical systems necessary to accommodate the proposed equipment at the expense of the contractor.
- B. The Engineer will review these submittals and will furnish a letter to all bidders listing any additional manufacturers which have been approved at least 5 days prior to the bid opening.

1.05 Experience Clause:

- A. The equipment furnished hereunder shall be the product of a company experienced in the design and manufacture of grinder pumps specifically designed for use in low pressure systems.
- B. All manufacturers proposing equipment for this project shall have at least 10 years of experience in the design and manufacture of units of identical size(s) and performance to the specified units.
- C. All manufacturers proposing equipment for this project must also have not less than 100 successful installations of low pressure sewer systems utilizing grinder pumps of like type to the grinder pumps specified herein. An installation is defined as a minimum of 25 pumps discharging into a common force main which forms a low pressure sewer system.
- D. The contractor (supplier) proposing alternate equipment shall also submit, as part of the bid schedule, an installation list with contact person(s), phone number(s) and date(s) of at least 10 installations of the type of pump specified herein that have been in operation for at least 10 years.

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1.06 Warranty

A. The grinder pump manufacturer shall provide a part(s) and labor warranty on the complete station and accessories, including, but not limited to, the panel for a period of 30 months (minimum) after notice of owner's acceptance. Any manufacturing defects found during the warranty period will be reported to the manufacturer by the owner and will be corrected by the manufacturer at no cost to the owner.

PART 2 - PRODUCTS

2.01 <u>General Requirements</u>

- A. The equipment specified shall be a product of a company experienced in the design and manufacture of grinder pumps for specific use in low pressure sewage systems. The company shall submit detailed installation and user instructions for its product, submit evidence of an established service program including complete parts and service manuals, and be responsible for maintaining a continuing inventory of grinder pump replacement parts.
- 2.02 <u>Acceptable Manufacturer:</u> Grinder pump stations, complete with all appurtenances, form an integral system, and as such, shall be supplied by one grinder pump station manufacturer.
 - A. Environment One Corporation, Niskayuna, New York
 - B. Other manufacturers who submit their information 10 days prior to the bid opening and who can prove that their equipment is comparable to the equipment specified will be considered an approved equal. Submittals must be in accordance with 1.04 Pre-Bid Submittals.

2.03 Operating Conditions:

- A. The pumps shall be capable of delivering 15 GPM against a rated total dynamic head of 0 feet (0 PSIG), 11 GPM against a rated total dynamic head of 92 feet (40 PSIG), and 7.8 GPM against a rated total dynamic head of 185 feet (80 PSIG).
- B. The pump(s) must also be capable of operating at negative total dynamic head without overloading the motor(s). Under no conditions shall in-line piping or valving be allowed to create a false apparent head.

2.04 <u>Pump</u>

- A. The pump shall be a custom designed, integral, vertical rotor, motor driven, solids handling pump of the progressing cavity type with a single mechanical seal.
- B. Double radial O-ring seals are required at all casting joints to minimize corrosion and create a protective barrier.
- C. Unit housings constructed from cast iron shall be fully epoxy coated to 8-10 mil Nominal dry thickness, wet applied. Housings not constructed of cast iron shall be injection molded from thermoplastic composite materials specifically selected for excellent corrosion resistance, high impact strength and superior resistance to UV degradation.
- D. The rotor shall be through-hardened, highly polished, precipitation hardened stainless steel.
- E. The stator shall be of a specifically compounded ethylene propylene synthetic elastomer. This material shall be suitable for domestic wastewater service. Its physical properties shall include:
 - 1. High tear and abrasion resistance
 - 2. Grease resistance
 - 3. Water and detergent resistance
 - 4. Temperature stability
 - 5. Excellent aging properties
 - 6. Outstanding wear resistance.

Buna-N is not acceptable as a stator material because it does not exhibit the properties as outlined above and required for wastewater service.

2.05 Grinder

- A. The grinder shall be placed immediately below the pumping elements and shall be direct-driven by a single, one-piece motor shaft.
- B. The grinder impeller (cutter wheel) assembly shall be securely fastened to the pump motor shaft by means of a threaded connection attaching the grinder impeller to the motor shaft. Attachment by means of pins or keys will not be acceptable.
- C. The grinder impeller shall be a one-piece, 4140 cutter wheel of the rotating type with inductively hardened cutter teeth. The cutter teeth shall be inductively hardened to Rockwell 50 60c for abrasion resistance.
- D. The shredder ring shall be of the stationary type and the material shall be white cast iron. The teeth shall be ground into the material to achieve

- effective grinding. The shredder ring shall have a staggered tooth pattern with only one edge engaged at a time, maximizing the cutting torque.
- E. These materials have been chosen for their capacity to perform in the intended environment as they are materials with wear and corrosive resistant properties.
- F. This assembly shall be dynamically balanced and operate without objectionable noise or vibration over the entire range of recommended operating pressures. The grinder shall be constructed so as to minimize clogging and jamming under all normal operating conditions including starting. Sufficient vortex action shall be created to scour the tank free of deposits or sludge banks which would impair the operation of the pump. These requirements shall be accomplished by the following, in conjunction with the pump:
 - 1. The grinder shall be positioned in such a way that solids are fed in an upward flow direction.
 - 2. The maximum flow rate through the cutting mechanism must not exceed 4 feet per second. This is a critical design element to minimize jamming and as such must be adhered to.
 - 3. The inlet shroud shall have a diameter of no less than 5 inches. Inlet shrouds that are less than 5 inches in diameter will not be accepted due to their inability to maintain the specified 4 feet per second maximum inlet velocity which by design prevents unnecessary jamming of the cutter mechanism and minimizes blinding of the pump by large objects that block the inlet shroud.
 - 4. The impeller mechanism must rotate at a nominal speed of no greater than 1800 rpm.
- G. The grinder shall be capable of reducing all components in normal domestic sewage, including a reasonable amount of "foreign objects," such as paper, wood, plastic, glass, wipes, rubber and the like, to finely-divided particles which will pass freely through the passages of the pump and the 1-1/4" diameter stainless steel discharge piping.

2.06 Electric Motor

- A. As a maximum, the motor shall be a 1 HP, 1725 RPM, 240 Volt 60 Hertz, 1 Phase, capacitor start, ball bearing, air-cooled induction type with Class F installation, low starting current not to exceed 30 amperes and high starting torque of 8.4 foot pounds.
- B. The motor shall be press-fit into the casting for better heat transfer and longer winding life.
- C. Inherent protection against running overloads or locked rotor conditions for the pump motor shall be provided by the use of an automatic-reset, integral

thermal overload protector incorporated into the motor. This motor protector combination shall have been specifically investigated and listed by Underwriters Laboratories, Inc., for the application.

- D. Non-capacitor start motors or permanent split capacitor motors will not be accepted because of their reduced starting torque and consequent diminished grinding capability.
- E. The wet portion of the motor armature must be 300 Series stainless.
- F. To reduce the potential of environmental concerns, the expense of handling and disposing of oil, and the associated maintenance costs, oil-filled motors will not be accepted.

2.07 Mechanical Seal:

A. The pump/core shall be provided with a mechanical shaft seal to prevent leakage between the motor and pump. The seal shall have a stationary ceramic seat and carbon rotating surface with faces precision lapped and held in position by a stainless steel spring.

2.08 <u>Tank: High Density Polyethylene (HDPE)</u>

A. Construction

- 1. The tank shall be a wetwell design made of high density polyethylene of a grade selected for environmental stress cracking resistance.
- Corrugated sections are to be made of a double wall construction with the internal wall being generally smooth to promote scouring.
 Corrugations of the outside wall are to be of a minimum amplitude of 1-1/2" to provide necessary transverse stiffness.
- 3. Any incidental sections of a single wall construction are to be a minimum .250 inch thick.
- 4. All seams created during tank construction are to be thermally welded and factory tested for leak tightness.
- 5. Tank wall and bottom must withstand the pressure exerted by saturated soil loading at maximum burial depth.
- 6. All station components must function normally when exposed to maximum external soil and hydrostatic pressure.
- B. The tank shall be furnished with a factory installed PVC inlet flange to accept a 4.50" OD (4" DWV or SCH 40) inlet pipe.
- C. The tank shall include a lockable cover assembly providing low profile mounting and watertight capability. The cover shall be compression-molded fiberglass, green in color, with a load rating of 150 lbs per square foot. The cover assembly shall also include an integral 2-inch vent to prevent sewage

gases from accumulating in the tank. The accessway design and construction shall facilitate field adjustment of station height in increments of 4" or less without the use of any adhesives or sealants requiring cure time before installation can be completed.

- D. The power and control cable shall connect to the pump by means of the provided NEMA 6P Electrical Quick Disconnect (EQD) and shall enter the tank through a factory installed watertight strain relief connector. An electrical junction box shall not be permitted in the tank.
- E. Tank heights shall be as shown on the contract drawings.
- F. The station shall have all necessary penetrations factory sealed and tested. No field penetrations shall be acceptable.

2.09 Tank: Fiberglass

A. Construction

- 1. The tank shall be a wetwell design consisting of a single wall, laminated fiberglass construction. The resin used shall be of a commercial grade suitable for the environment.
- 2. The reinforcing material shall be a commercial grade of glass fiber capable of bonding with the selected resin.
- 3. The inner surface shall have a smooth finish and be free of cracks and crazing.
- 4. The exterior tank surface shall be relatively smooth with no exposed fiber or sharp projections present.
- 5. The tank wall and bottom shall be of sufficient thickness and construction to withstand the imposed loading due to saturated soil at the specified burial depth for each available tank height.
- 6. All station components must function normally when exposed to the external soil and hydrostatic pressures developed at the specified burial depth.
- 7. The tank bottom shall be reinforced with a fiberglass plate extending beyond the tank walls to support concrete anchoring, as required, to prevent flotation.
- B. The Fiberglass tank shall have a stainless steel discharge bulkhead which terminates outside the tank wall with a 1-1/4" female pipe thread. The discharge bulkhead shall be factory installed and warranted by the manufacturer to be watertight. The tank shall be furnished with a field installed EPDM grommet to accept a 4.50" OD (4" DWV or SCH 40) inlet pipe.
- C. The power and control cable shall connect to the pump by means of the provided NEMA 6P Electrical Quick Disconnect (EQD) and shall enter the

tank through a field installed watertight strain relief connector supplied by the manufacturer.

- D. An electrical junction box shall not be permitted in the tank. Installation of the inlet grommet and cable strain relief shall require field penetration of the tank wall by the installing party.
- E. The tank shall also be vented to prevent sewage gases from accumulating inside the tank by means of a factory-provided, field-installed mushroom vent. The station cover shall be factory drilled to accept the mushroom vent.
- F. The tank and stainless steel discharge bulkhead shall be factory-tested to be watertight.
- G. Consult the contract drawings for station tank sizes (diameter and height).

2.10 Discharge Hose and Disconnect/Valve

- A. All discharge fittings and piping shall be constructed of polypropylene, EPDM or PVC.
- B. The discharge hose assembly shall include a shut-off valve rated for 200 psi WOG and a quick disconnect feature to simplify installation and pump removal.
- C. The bulkhead penetration shall be factory installed and warranted by the manufacturer to be watertight.

2.11 Electrical Quick Disconnect

- A. The grinder pump core shall include a factory-installed NEMA 6P electrical quick disconnect (EQD) for all power and control functions.
- B. The EQD will be supplied with 32', 25' of useable, electrical supply cable (ESC) to connect to the alarm panel.
- C. The EQD shall require no tools for assembly, seal against water before the electrical connection is made, and include radial seals to assure a watertight seal regardless of tightening torque.
- D. Plug-type connections of the power cable onto the pump housing will not be acceptable due to the potential for leaks and electrical shorts.
- E. Junction boxes are not acceptable due to the large number of potential leak points.
- F. The EQD shall be so designed to be conducive to field wiring as required.

2.12 Check Valve

- A. The pump discharge shall be equipped with a factory installed, gravity operated, flapper-type integral check valve built into the discharge piping.
- B. The check valve will provide a full-ported passageway when open, and shall introduce a friction loss of less than 6 inches of water at maximum rated flow.
- C. Moving parts will be made of a 300 Series stainless steel and fabric reinforced synthetic elastomer to ensure corrosion resistance, dimensional stability, and fatigue strength.
- D. A nonmetallic hinge shall be an integral part of the flapper assembly providing a maximum degree of freedom to assure seating even at a very low back-pressure.
- E. The valve body shall be an injection molded part made of an engineered thermoplastic resin.
- F. The working pressure of the valve shall be at least 235 psi.
- G. Ball-type check valves are unacceptable due to their limited sealing capacity in slurry applications.

2.13 Anti-Siphon Valve

- A. The pump discharge shall be equipped with a factory-installed, gravity-operated, flapper-type integral anti-siphon valve built into the discharge piping.
- B. Moving parts will be made of 300 Series stainless steel and fabric-reinforced synthetic elastomer to ensure corrosion resistance, dimensional stability, and fatigue strength.
- C. A nonmetallic hinge shall be an integral part of the flapper assembly, providing a maximum degree of freedom to ensure proper operation even at a very low pressure.
- D. The valve body shall be injection-molded from an engineered thermoplastic resin.
- E. Holes or ports in the discharge piping are not acceptable anti-siphon devices due to their tendency to clog from the solids in the slurry being pumped.

F. The anti-siphon port diameter shall be no less than 60% of the inside diameter of the pump discharge piping.

2.14 Lateral Kit

A. A lateral kit shall be provided for the termination of the lateral line and the force main. This assembly shall include a curb stop and check valve assembly with NPT threaded fittings, curb box, brass or cast iron NPT nipple, NPT cast iron reducing tee, or pipe saddle, and appropriate male-socket PVC Schedule 80 adapters, as shown on the contract drawings. All items to be provided as part of the grinder pump station package.

2.14 Core Unit

A. The grinder pump station shall have an easily removable core assembly containing pump, motor, grinder, all motor controls, check valve, anti-siphon valve, electrical quick disconnect and wiring. The watertight integrity of the core unit shall be established by a 100% factory test at a minimum of 5 PSIG.

2.15 Controls

- A. All necessary motor starting controls shall be located in the cast iron enclosure of the core unit secured by stainless steel fasteners. Locating motor starting controls in a plastic enclosure is not acceptable.
- B. Wastewater level sensing controls shall be housed in a separate enclosure from motor starting controls. Level sensor housing must be sealed via a radial type seal; solvents or glues are not acceptable. Level sensing control housing must be integrally attached to pump assembly so that it may be removed from the station with the pump and in such a way as to minimize the potential for the accumulation of grease and debris accumulation, etc. Level sensing housing must be a high-impact thermoplastic copolymer over-molded with a thermo plastic elastomer. The use of PVC for the level sensing housing is not acceptable.
- C. Non-fouling wastewater level controls for controlling pump operation shall be accomplished by monitoring the pressure changes in an integral air column connected to a pressure switch. The air column shall be integrally molded from a thermoplastic elastomer suitable for use in wastewater and with excellent impact resistance. The air column shall have only a single connection between the water level being monitored and the pressure switch. Any connections are to be radial sealed with redundant O-rings. The level detection device shall have no moving parts in direct contact with the wastewater and shall be integral to the pump core assembly in a single, readily-exchanged unit. Depressing the push to run button must operate the pump even with the level sensor housing removed from the pump.

- D. All fasteners throughout the assembly shall be 300 Series stainless steel.
- E. High-level sensing will be accomplished in the manner detailed above by a separate air column sensor and pressure switch of the same type. Closure of the high-level sensing device will energize an alarm circuit as well as a redundant pump-on circuit. For increased reliability, pump ON/OFF and high-level alarm functions shall not be controlled by the same switch. Float switches of any kind, including float trees, will not be accepted due to the periodic need to maintain (rinsing, cleaning) such devices and their tendency to malfunction because of incorrect wiring, tangling, grease buildup, and mechanical cord fatigue.
- F. To assure reliable operation of the pressure switches, each core shall be equipped with a factory installed equalizer diaphragm that compensates for any atmospheric pressure or temperature changes. Tube or piping runs outside of the station tank or into tank-mounted junction boxes providing pressure switch equalization will not be permitted due to their susceptibility to condensation, kinking, pinching, and insect infestation.
- G. The grinder pump will be furnished with a 6 conductor 14 gauge, type SJOW cable, pre-wired and watertight to meet UL requirements with a factory installed NEMA 6P EQD half attached to it.

2.16 Alarm Panel

- A. Each grinder pump station shall include a NEMA 4X, UL-listed alarm panel suitable for wall or pole mounting. The NEMA 4X enclosure shall be manufactured of thermoplastic polyester to ensure corrosion resistance. The enclosure shall include a hinged, lockable cover with padlock, preventing access to electrical components, and creating a secured safety front to allow access only to authorized personnel. The enclosure shall not exceed 10.5" W x 14" H x 7" D, or 12.5" W x 16" H x 7.5" D if certain options are included.
- B. The alarm panel shall contain one 15-amp, double-pole circuit breaker for the pump core's power circuit and one 15-amp single-pole circuit breaker for the alarm circuit. The panel shall contain an elapsed time meter, a push-to-run feature, an internal run indicator, and a complete alarm circuit. All circuit boards in the alarm panel are to be protected with a conformal coating on both sides and the AC power circuit shall include an auto resetting fuse.
- C. A separate, internal breaker rated and approved for use as "service equipment" and acts as a main service disconnect of the grinder pump station shall be provided.

- D. The alarm panel shall include the following features: external audible and visual alarm; push-to-run switch; push-to-silence switch; redundant pump start; and high level alarm capability. The alarm sequence is to be as follows when the pump and alarm breakers are on:
 - 1. When liquid level in the sewage wet-well rises above the alarm level, audible and visual alarms are activated, the contacts on the alarm pressure switch activate, and the redundant pump starting system is energized.
 - 2. The audible alarm may be silenced by means of the externally mounted, push-to-silence button.
 - 3. Visual alarm remains illuminated until the sewage level in the wetwell drops below the "off" setting of the alarm pressure switch.
- E. The visual alarm lamp shall be inside a red, oblong lens at least 3.75" L x 2.38" W x 1.5" H. Visual alarm shall be mounted to the top of the enclosure in such a manner as to maintain the NEMA 4X rating. The audible alarm shall be externally mounted on the bottom of the enclosure, capable of 93 dB @ 2 feet. The audible alarm shall be capable of being deactivated by depressing a pushtype switch that is encapsulated in a weatherproof silicone boot and mounted on the bottom of the enclosure (push-to-silence button).
- F. For duplex stations, in addition to the above, two high level indicator lights shall be mounted within the enclosure on the duplex panel's alarm circuit board. During high level alarm indication on duplex stations, the appropriate indicator light will illuminate to indicate which core requires service.
- G. The entire alarm panel, as manufactured shall be listed by Underwriters Laboratories, Inc.

2.17 Serviceability

- A. The grinder pump core, including level sensor assembly, shall have two lifting hooks complete with lift-out harness connected to its top housing to facilitate easy core removal when necessary.
- B. The level sensor assembly must be easily removed from the pump assembly for service or replacement.
- C. All mechanical and electrical connections must provide easy disconnect capability for core unit removal and installation.
- D. Each EQD half must include a water-tight cover to protect the internal electrical pins while the EQD is unplugged.

- E. A pump push-to-run feature will be provided for field trouble shooting. The push-to-run feature must operate the pump even if the level sensor assembly has been removed from the pump assembly.
- F. All motor control components shall be mounted on a readily replaceable bracket for ease of field service.

2.18 OSHA Confined Space

A. All maintenance tasks for the grinder pump station must be possible without entry into the grinder pump station (as per OSHA 1910.146 Permit-required confined spaces).

2.19 Safety

- A. The grinder pump shall be free from electrical and fire hazards as required in a residential environment. As evidence of compliance with this requirement, the completely assembled and wired grinder pump station shall be listed by Underwriters Laboratories, Inc., to be safe and appropriate for the intended use. UL listing of components of the station, or third-party testing to UL standard are not acceptable.
- B. The grinder pump shall meet accepted standards for plumbing equipment for use in or near residences, shall be free from noise, odor, or health hazards, and shall have been tested by an independent laboratory to certify its capability to perform as specified in either individual or low pressure sewer system applications. As evidence of compliance with this requirement, the grinder pump shall bear the seal of NSF International. Third-party testing to NSF standard is not acceptable.

2.20 Spare Parts

A. The manufacturer will supply one spare grinder pump core for every 50 grinder pump stations installed or portion thereof, complete with all operational controls, level sensors, check valve, anti-siphon valve, pump/motor unit, and grinder.

PART 3 - EXECUTION

3.01 <u>Factory Test</u>

A. Each grinder pump shall be submerged and operated for 5 minutes (minimum). Included in this procedure will be the testing of all ancillary components such as, the anti-siphon valve, check valve, discharge assembly

- and each unit's dedicated level controls and motor controls. All factory tests shall incorporate each of the above listed items.
- B. Actual appurtenances and controls which will be installed in the field shall be particular to the tested pump only. A common set of appurtenances and controls for testing all pumps is not acceptable.
- C. Certified test results shall be available upon request showing the operation of each grinder pump at two different points on its curve, with a maximum pressure of no less than 80 psi and a factory bearing vibration test.
- D. The engineer reserves the right to inspect such testing procedures with representatives of the owner, at the grinder pump manufacturer's facility.
- E. All HDPE basins shall be factory leak tested to assure the integrity of all joints, seams and penetrations. All necessary penetrations such as inlets, discharge fittings and cable connectors shall be included in this test along with their respective sealing means (grommets, gaskets etc.). Fiberglass basins with stainless steel discharge bulkhead shall be factory tested to be watertight.

3.02 <u>Certified Service Program</u>

- A. The grinder pump manufacturer shall provide a program implemented by the manufacturer's personnel as described in this specification to certify the service company as an authorized serviced center. As evidence of this, the manufacturer shall provide, when requested, sufficient evidence that they have maintained their own service department for a minimum of 10 years and currently employ a minimum of five employees specifically in the service department.
- B. As part of this program, the manufacturer shall evaluate the service technicians as well as the service organization annually. The service company will be authorized by the manufacturer to make independent warranty judgments. The areas covered by the program shall include, as a minimum:
 - 1. Pump Population Information The service company will maintain a detailed database for the grinder pumps in the territory that tracks serial numbers by address.
 - 2. Inventory Management The service company must maintain an appropriate level of inventory (pumps, tanks, panels, service parts, etc.) including regular inventory review and proper inventory labeling. Service technicians will also maintain appropriate parts inventory and spare core(s) on service vehicles.
 - 3. Service Personnel Certification Service technicians will maintain their level-specific certification annually. The certifications are given in field troubleshooting, repair, and training.

- 4. Service Documentation and Records Start up sheets, service call records, and customer feedback will be recorded by the service company.
- 5. Shop Organization The service company will keep its service shop organized and pumps will be tagged with site information at all times. The shop will have all required equipment, a test tank, and cleaning tools necessary to service pumps properly.

3.03 Delivery & Examination

- A. All grinder pump core units, including level controls, will be delivered to the job site 100 percent completely assembled, including testing, ready for installation. Grinder pump cores will be shipped separately from the tanks. Installing the cores and discharge piping/hose into the tanks is the only assembly step required and allowed due to the workmanship issues associated with other on-site assembly. Grinder pump cores must be boxed for ease of handling.
- B. Examine pump station when delivered to make sure that all components have been delivered.
- C. Examine pump station for damage prior to installation and immediately notify Engineer of any damage that has occurred.
- D. User instructions must be given to the owner.
- E. The basin may not be dropped, rolled or laid on its side for any reason.

3.04 <u>Preparation</u>

- A. Locate all utilities in the area.
- B. Locate existing bathroom and greywater discharge pipe to insure that the facility can drain by gravity into the wet well.
- C. Secure from the station manufacturer station installation instructions at least one (1) week prior to the scheduled shipment of the station to the job site.
- D. The contractor shall study the instructions and direct any questions he has to the station manufacturer representative for answers before proceeding with the station installation.
- E. Divert surface water around pump station site.

3.05 Pit Excavation

- A. Excavate earth and other material necessary to provide sufficient space to install the package pump station.
- B. Provide sheeting, shoring, and piling necessary to retain the sides so that the excavation can be completed.
- C. Provided well point system if needed to allow for the installation of floatation ballast in pit.

3.06 Installation

- A. The contractor shall be responsible for handling ground water to provide a firm, dry subgrade for the structure, and shall guard against flotation or other damage resulting from general water or flooding.
- B. The grinder pump stations shall not be set into the excavation until the installation procedures and excavation have been approved by the engineer.
- C. Installation shall be accomplished so that 1" to 4" of accessway, below the bottom of the lid, extends above the finished grade line. The finished grade shall slope away from the unit. The diameter of the excavated hole must be large enough to allow for the concrete anchor.
- D. A 6 inch (minimum) layer of naturally rounded aggregate, clean and free flowing, with particle size of not less than 1/8" or more than 3/4" shall be used as bedding material under each unit.
- E. A concrete anti-flotation collar, as detailed on the drawings, and sized according to the manufacturer's instructions, shall be required and shall be pre-cast to the grinder pump or poured in place. Each grinder pump station with its pre-cast anti-flotation collar shall have a minimum of three lifting eyes for loading and unloading purposes.
- F. If the concrete is poured in place, the unit shall be leveled, and filled with water, to the bottom of the inlet, to help prevent the unit from shifting while the concrete is being poured. The concrete must be manually vibrated to ensure there are no voids. If it is necessary to pour the concrete to a level higher than the inlet piping, an 8" sleeve is required over the inlet prior to the concrete being poured.
- G. The electrical enclosure shall be furnished, installed and wired to the grinder pump station by the contractor. An alarm device is required on every installation, there shall be no exceptions. It will be the responsibility of the contractor and the engineer to coordinate with the individual property owner(s) to determine the optimum location for the alarm panel.

- H. The contractor shall mount the alarm device in a conspicuous location, as per national and local codes. The alarm panel will be connected to the grinder pump station by a length of 6-conductor type TC cable as shown on the contract drawings. The power and alarm circuits must be on separate power circuits. The grinder pump stations will be provided with 32', 25' of useable, electrical supply cable to connect the station to the alarm panel. This cable shall be supplied with a factory installed EQD half to connect to the mating EQD half on the core.
- I. The contractor shall be responsible for the satisfactory operation of the entire system.

3.07 Backfill Requirements

- A. Backfill as soon as the station is set with suitable material as determined by the Engineer.
- B. Compact to 85% of the maximum Standard Proctor Density. Backfill must be compacted in lifts not to exceed one foot to reach a final Proctor Density of 85%. The finish grade line shall be 1" to 4" below the bottom of the lid, and final grade shall slope away from the grinder pump station.
- C. Provide additional fill material as needed to fill the site to the elevations specified.
- D. Remove excess or unsuitable material from site.
- E. All restoration will be the responsibility of the contractor. Per unit costs for this item shall be included in the contractor's bid price for the individual grinder pump station. The properties shall be restored to their original condition in all respects, including, but not limited to, curb and sidewalk replacement, landscaping, loaming and seeding, and restoration of the traveled ways, as directed by the engineer.

3.08 Start-Up and Field Testing

- A. The contractor shall provide the services of qualified factory trained technician(s) who shall inspect the placement and wiring of each station, perform field tests as specified herein, and instruct the owner's personnel in the operation and maintenance of the equipment before the stations are accepted by the owner.
- B. All equipment and materials necessary to perform testing shall be the responsibility of the installing contractor. This includes, as a minimum, a portable generator and power cable (if temporary power is required), water in each basin (filled to a depth sufficient to verify the high level alarm is

operating), and opening of all valves in the system. These steps shall be completed prior to the qualified factory trained technician(s) arrival on site.

- C. Upon completion of the installation, the authorized factory technician(s) will perform the following test on each station:
 - 1. Make certain the discharge shut-off valve in the station is fully open.
 - 2. Turn on the alarm power circuit and verify the alarm is functioning properly.
 - 3. Turn on the pump power circuit. Initiate the pump operation to verify automatic "on/off" controls are operative. The pump should immediately turn on.
 - 4. Consult the Manufacturer's Service Manual for detailed start-up procedures.
- D. Upon completion of the start-up and testing, the manufacturer shall submit to the engineer a start-up authorization form describing the results of the tests performed for each grinder pump station. Final acceptance of the system will not occur until authorization forms have been received for each pump station installed and any installation deficiencies corrected.
- E. The manufacturer shall supply four copies of Operation and Maintenance manuals to the owner, and one copy of the same to the engineer.
- F. In addition to start up, pump manufacturer shall supply 10 days of instruction and training for the service personnel responsible for long term maintenance of the system. The training shall address all aspects of installation, start-up, trouble shooting, operation, maintenance, and repair of the pump vault units including all electrical components. The training sessions shall include complete review of installation, operation and maintenance manuals, as well as actual field instruction. The Training sessions shall be coordinated with the pump manufacture, engineer and the authority's personnel. The training sessions shall be scheduled two (2) weeks in advance to allow for adequate notification to all parties involved.

3.09 Clean-Up

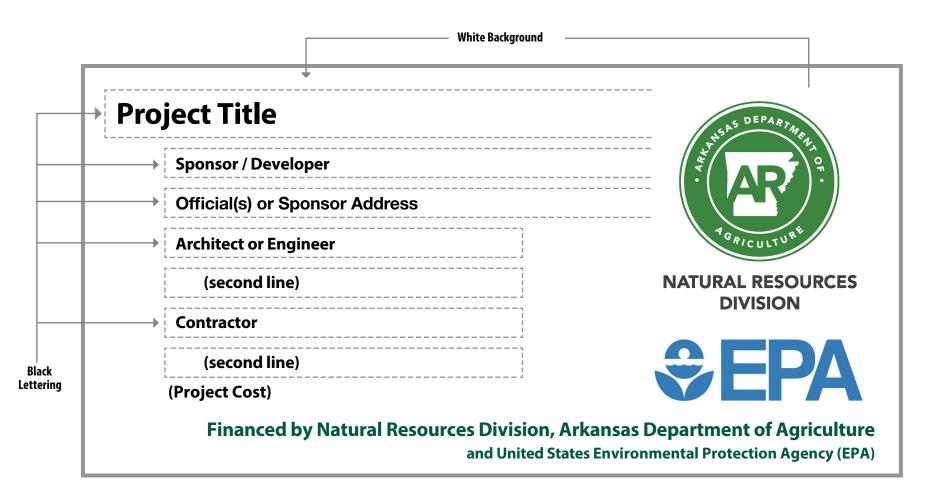
- A. Remove all trash and debris from site.
- B. Clean pumps and equipment as necessary.

END OF SECTION

11304-18 Rev. 03-24-2025

TEMPORARY CONSTRUCTION SIGN FOR EPA/NRD PROJECTS

Recommended Fonts: Helvetica, Arial, or Myriad Pro



SIGN DIMENSIONS : 1200 mm x 2400 mm x 19 mm (approx. 4' x 8' x 3/4")
PLYWOOD PANEL (APA RATED A-B GRADE-EXTERIOR)

SITE WITH AUTOMATIC COVERAGE (LESS THAN 5 ACRES) CONSTRUCTION SITE NOTICE

FOR THE

Arkansas Department of Environmental Quality (ADEQ) Storm Water Program

NPDES GENERAL PERMIT NO. ARR150000

The following information is posted in compliance with **Part I.B.8.A** of the ADEQ General Permit Number **ARR150000** for discharges of stormwater runoff from sites with automatic coverage. Additional information regarding the ADEQ stormwater program may be found on the internet at:

 $www.adeq.state.ar.us/water/branch_npdes/stormwater$

Permit Number	ARR150000
Contact Name: Phone Number:	E.J. Daugherty, President
Project Description (Name, Location, etc.): Start Date: End Date: Total Acres:	Pressure Sewer Extension and Bypass Lines 1.66
Location of Stormwater Pollution Prevention Plan:	Construction Trailer on Construction Site

For Construction Sites Authorized under **Part I.B.6.A** (Automatic Coverage) the following certification must be completed:

I **E.J. Daugherty** certify under penalty of law that I have read and understand the eligibility requirements for claiming an authorization under Part I.B.2. of the ADEQ General Permit Number ARR150000. A stormwater pollution prevention plan has been developed and implemented according to the requirements contained in Part II.A.2.B & D of the permit. I am aware there are significant penalties for providing false information or for conducted unauthorized discharges, including the possibility of fine and imprisonment for knowing violations.

Signature and Title

10-31-2024

Date

Stormwater Pollution Prevention Plan (SWPPP) for Construction Activity for Small Construction Sites

National Pollutant Discharge Elimination System (NPDES) General Permit # ARR150000

Prepared for:
El Dorado Rural Public Water Authority
Parnell Road Force Main Extension
And Bypass Lines Around Master Meters

Date:

August 2024

Prepared by: Gaunt Engineers, Inc.

-	t Name and Location: Parnell Road r Meters, El Dorado Rural Public W		• •
Proper	ty Parcel Number (<i>Optional</i>):		
Opera	tor Name and Address: El Dorado R	ural Public Water Au	uthority
A.	Site Description a. Project description, intend b. Sequence of major activit excavation for water line ins c. Total Area: 1.66 acre	ies which disturb s	oils: <u>Clearing, grading, drilling for well,</u> I <u>l</u>
В.	Responsible Parties Be sure to assign all SWPPP relate specific individual is not yet know		•
	Individual/Company	Phone Number	Service Provided for SWPPP (i.e., Inspector, SWPPP revisions, Stabilization Activities, BMP Maintenance, etc.)
	Gaunt Engineers, Inc.	870-862-4231	Original SWPPP
	To Be Determined	TBD	Inspector
	To Be Determined	TBD	Stabilization Activities
	To Be Determined	TBD	BMP Maintenance
	To Be Determined	TBD	SWPPP Revisions
C.	Receiving Waters a. The following waterbody construction site: Bayou do b. Is the project located with i. If yes, Name of MS c. Ultimate Receiving Water Red River \textstyle Ouachita River Arkansas River	e Loutre, thence to Conin the jurisdiction	
D.	Site Map Requirements (Attach S a. Pre-construction topograp		

- Direction of stormwater flow (i.e., use arrows to show which direction stormwater will flow) and approximate slopes anticipated after grading activities;
- c. Delineate on the site map areas of soil disturbance and areas that will not be disturbed under the coverage of this permit;
- d. Location of major structural and nonstructural controls identified in the plan;
- e. Location of main construction entrance and exit;
- f. Location where stabilization practices are expected to occur;
- g. Locations of off-site materials, waste, borrow area, or equipment storage area;
- h. Location of areas used for concrete wash-out;
- i. Location of all surface water bodies (including wetlands) with associated natural buffer boundary lines. Identify floodplain and floodway boundaries, if available;
- j. Locations where stormwater is discharged to a surface water and/or municipal separate storm sewer system if applicable,
- k. Locations where stormwater is discharged off-site (should be continuously updated);
- I. Areas where final stabilization has been accomplished and no further construction phase permit requirements apply;
- m. A legend that identifies any erosion and sediment control measure symbols/labels used in the site map and/or detail sheet; and
- n. Locations of any storm drain inlets on the site and in the immediate vicinity of the site.

E. Stormwater Controls

- a. Initial Site Stabilization, Erosion and Sediment Controls, and Best Management Practices:
 - i. Initial Site Stabilization: <u>Silt fencing will be installed prior to construction in the specific areas mentioned</u>
 - ii. Erosion and Sediment Controls: <u>Silt fencing will be installed in accordance</u> with manufacturers' instructions and will intercept runoff from excavation areas. Any stored excavation material shall also be protected with silt fencing.

iii.	If periodic inspections or other information indicates a control has been
	used inappropriately or incorrectly, the operator will replace or modify
	the control for site situations: XYes No
	If No, explain:

iv. Off-site accumulations of sediment will be removed at a frequency sufficient to minimize off-site impacts: ∑Yes ☐No

		If No, explain:
	V.	Sediment will be removed from sediment traps or sedimentation ponds when design capacity has been reduced by 50%: Yes No If No, explain:
	vi.	Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges: Yes No If No, explain:
	vii.	Off-site material storage areas used solely by the permitted project are being covered by this SWPPP: Yes No If Yes, explain additional BMPs implemented at off-site material storage area: The location of off-site storage areas will be determined by the contractor and will be protected with silt fencing.
b.	Stabili	zation Practices
		Description and Schedule: <u>Areas of utility line excavation will be backfilled as soon as the line is laid.</u> All disturbed areas will be stabilized immediately after
	ii.	construction activity in the area has temporarily or permanently ceased. Are buffer areas required?
		If Yes, describe natural buffer areas: Bore pits and stored excavation material shall be protected with silt fencing.
	iii.	A record of the dates when grading activities occur, when construction activities temporarily or permanently cease on a portion of the site, and when stabilization measures are initiated shall be included with the plan. Yes No If No, explain:
	iv.	Deadlines for stabilization: 1. Stabilization procedures will be initiated 14 days after

construction activity temporarily ceases on a portion of the site.

2. Stabilization procedures will be initiated immediately in portions

of the site where construction activities have permanently ceased.

required by local regulations.

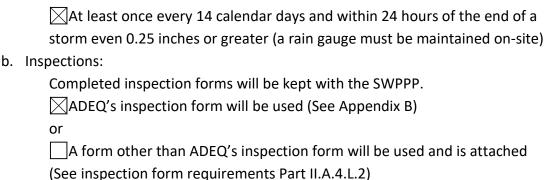
c. Structural Practices

- i. Describe any structural practices to divert flows from exposed soils, store flows, or otherwise limit runoff and the discharge of pollutants from exposed areas of the site: Silt fencing will be installed and maintained around areas of excavation until backfilling and stabilization have occurred
- ii. Describe Velocity Dissipation Devices: No velocity dissipation devices are m

			Describe velocity dissipation bevices. No velocity dissipation devices are
			required as there is no concentrated flow area serving two or more acres. Stor
			water run-off is controlled by natural sheet flow.
		iii.	Sediment Basins:
			Are 10 or more acres draining to a common point? ☐ Yes ☒ No
			Is a sediment basin included in the project? \square Yes $igtimes$ No
			If Yes, what is the designed capacity for the storage?
			3600 cubic feet per acre = :
			or
			10 year, 24 hour storm = :
			Other criteria were used to design basin:
			If No, explain why no sedimentation basin was included and
			describe required natural buffer areas and other controls
			implemented instead: No sedimentation basin is required as there is
			no common drainage point serving ten or more acres.
F.	Other	Control	S
	a.	Solid n	naterials, including building materials, shall be prevented from being
		discha	rged to Waters of the State: ⊠Yes □No
	b.	Off-sit	e vehicle tracking of sediments and the generation of dust shall be
		minim	ized through the use of:
			A stabilized construction entrance and exit
			Vehicle tire washing
			Other controls, describe:

c. Temporary Sanitary Facilities: Portable toilets – all sanitary waste will be collected as

	d.	Concrete Waste Area Provided:
		Yes No. Concrete is used on the site, but no concrete washout is provided.
		Explain why:
		N/A, no concrete will be used with this project
	e.	Fuel Storage Areas, Hazardous Waste Storage, and Truck Wash Areas:
G.	Non-S	tormwater Discharges
	a.	The following allowable non-stormwater discharges comingled with stormwater are present or anticipated at the site: Fire-fighting activities; Fire hydrant flushings; Water used to wash vehicles (where detergents or other chemicals are not used) or control dust in accordance with Part II.A.4.H.2; Potable water sources including uncontaminated waterline flushings; Landscape Irrigation; Routine external building wash down which does not use detergents or other chemicals; Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled materials have been removed) and where detergents or other chemicals are not used; Uncontaminated air conditioning, compressor condensate (See Part
	b.	I.B.12.C of the permit); Uncontaminated springs, excavation dewatering and groundwater (See Part I.B.13.C of the permit); Foundation or footing drains where flows are not contaminated with process materials such as solvents (See Part I.B.13.C of the permit); Describe any controls associated with non-stormwater discharges present at the site: Discharges from effluent pumps used for dewatering shall pass through a filter bag and shall not traverse disturbed soils or other pollutant sources prior to being discharged from the construction site.
Н.	any re	able State or Local Programs: The SWPPP will be updated as necessary to reflect visions to applicable federal, state, or local requirements that affect the water controls implemented at the site. \square Yes \square No
l.	Inspec	tions Inspection frequency:
	a.	Every 7 calendar days
		or



- c. Inspection records will be retained as part of the SWPPP for at least 3 years from the date of termination.
- d. It is understood that the following sections describe waivers of site inspection requirements. All applicable documentation requirements will be followed in accordance with the referenced sections.
 - i. Winter Conditions (Part II.A.4.L.4)
 - ii. Adverse Weather Conditions (Part II.A.4.L.5)

J. Maintenance:

The following procedures to maintain vegetation, erosion and sediment control measures and other protective measures in good, effective operating condition will be followed: All control measures will be inspected at least once every 14 calendar days and within 24 hours of the end of a storm event 0.25 inches or greater. All measures will be maintained in good working order; if a repair is necessary, it will be initiated within 4 hours of report. Built-up sediment will be removed from silt fencing when it has reached one-third of the height of the fence. Silt fencing will be inspected for depth of sediment, tears, to see if the fabric is securely attached to the fence posts, and to see that the fence posts are firmly in the ground. Temporary and permanent seeding, sodding, and planting will be inspected for bare spots, washouts, and healthy growth. A maintenance inspection report will be made after each inspection. A copy of the report form to be completed by the inspector is attached. The site superintendent will select the appropriate individual(s) who will be responsible for inspections, maintenance and repair activities, and filling out the inspection and maintenance report.

Any necessary repairs will be completed, when practicable, before the next storm event, but not to exceed a period of 3 business days of discovery, or as otherwise directed by state or local officials.

K. Employee Training:

The following is a description of the training plan for personnel (including contractors and subcontractors) on this project: <u>Four hours of training will be provided to individuals selected for inspection and maintenance responsibilities (contractors and subcontractors) after the pre-construction conference. They will be trained by a</u>

knowledgeable and qualified trainer in all the inspection and maintenance practices necessary for keeping the erosion and sediment controls used in good working order.

**Note, Formal training classes given by Universities or other third-party organizations are not required, but recommended for qualified trainers; the permittee is responsible for the content of the training being adequate for personnel to implement the requirements of the permit.

Certification

"I certify under penalty of law that this document and all attachments such as Inspection Form were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature of Responsible or Cognizant Official: _	2/1/20	
N / /)	F (
Title: President	Date: 10-31-2024	

	ne:			Date of I	nspection:	
nspector Title	:					
Date of Rainfa	ll:					
Days Since Las	t Rain Event:	days	s Rai	ntall Since Las	t Rain Event: _	inches
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Locations in No	eed of Additional BM	IPs:				
nformation or	n Location of Constru	iction Activities				
Location		Activity Begin Date	Activity Occuring Now (y/n)?	Activity Ceased Date	Stabilizatio Initiated Da	
nformation or Location	n BMPs in Need of M In Working	aintenance Maintenance	Schadulad	Maintenance	Completed	Maintenance to be
-ocation	Order?	Date	Scrieduled	Date	Completed	Performed By
Changes requi	red to the SWPPP:		Rea	asons for chan	ges:	
SWPPP change	es completed (date):					
					· ·	n were prepared under m
responsible	for gathering the info	rmation, the informa	ation submitted	is, to the best of	of my knowledg	m, or those persons directly and belief, true, accurate
•	ete. I am aware that the Inment for knowing vic	=	penaities for su	omitting talse ii	mormation, inc	luding the possibility of fin
Signature of Re	esponsible or Cogniza	ant Official:				Date:
		Title:				_

ARR150000 Inspection Form

Appendix A

The BMPs listed here should be considered for every project. Those BMPs that are not included in the SWPPP should be checked as "Not Used" with a brief statement describing why it is not being used.

Note: Appendix B and C do not have to be submitted with the SWPPP. These attachments are for use during the development of the SWPPP.

El	ROSIO	N C	ONTR	OL BM	Ps					
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EC-3 Hydraulic Mulch		\sqsubseteq				1		<u> </u>	<u> </u>	
EC-4 Hydroseeding		$\underline{\sqcup}$			<u>_</u>	1		Ļ	<u> </u>	
EC-5 Soil Binders		Щ				<u> </u>		<u> </u>	<u> </u>	
EC-6 Straw Mulch		$\underline{\sqcup}$				<u> </u>			<u> </u>	
EC-7 Geotextiles & Mats						<u> </u>			<u> </u>	
EC-8 Wood Mulching										
EC-9 Earth Dikes & Drainage Swales										
EC-10 Velocity Dissipation Devices										
EC-11 Slope Drains										
EC-12 Stream bank Stabilization										
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SE-1 Silt Fence SE-2 Sediment Basin SE-3 Sediment Trap SE-4 Check Dam SE-5 Fiber Rolls SE-6 Gravel Bag Berm SE-7 Street Sweeping and Vacuuming SE-8 Sand Bag Barrier SE-9 Straw Bale Barrier SE-10 Storm Drain Inlet Protection SE-11 Chemical Treatment				TROLE]]]]]]] Ps	Osec			reason
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NS-3 Paving and Grinding Operations									j	
NS-4 Temporary Stream Crossing									1	
NS-5 Clear Water Diversion									j	
NS-6 Illicit Connection/ Discharge									1	
NS-7 Potable Water/Irrigation									j	
NS-8 Vehicle and Equipment Cleaning								T	ĺ	
NS-9 Vehicle and Equipment Fueling]	
NS-10 Vehicle and Equipment Maintenance]	
NS-11 Pile Driving Operations										
NS-12 Concrete Curing]	
NS-13 Concrete Finishing										
NS-14 Material and Equipment Use Over Water										
NS-15 Demolition Adjacent to Water]	
NS-16 Temporary Batch Plants										
WASTE MANAGEMENT	AND I	MA.	TERIA	LS POLL	_UT	ION C	ONTRO)L E	SMPs	
	ВМР									
D14D	Cons			D. 4D			BMP		t	If not used, state
BMP	for p	roje	ect	ВМР	US	ea 	Used		1	reason
WM-1 Material Delivery and Storage WM-2 Material Use								H	<u>]</u>]	
								\vdash]	
WM-3 Stockpile Management								\vdash	<u>]</u>]	
WM-4 Spill Prevention and Control									<u>]</u>]	
WM-5 Solid Waste Management								\vdash	<u>]</u>]	
WM-6 Hazardous Waste Management					<u> </u>				<u> </u> 	
WM-7 Contaminated Soil Management		\vdash			<u> </u>				<u> </u> 	
WM-8 Concrete Waste Management					<u> </u>				<u> </u> 	
WM-9 Sanitary/Septic Waste Management		\vdash						\vdash	<u> </u> 	
WM-10 Liquid Waste Management]	

SWPPP Completion Checklist

Appendix C

Yes = Complete

No = Incomplete/Deficient

N/A = Not applicable to project

les No N/A	A. A site description, including:	Permit Section
	1. Project description, intended use after NOT	Part II.A.4.A.1
	2. Sequence of major activities	Part II.A.4.A.2
	3. Total & disturbed acreage	Part II.A.4.A.3
	B. Responsible Parties: All parties dealing with the SWPPP and the areas they are	
	responsible for on-site.	Part II.A.4.B
	C. Receiving Water.	Part II.A.4.C
	-MS4 Name	Part II.A.4.C
	-Ultimate Receiving Water	Part II.A.4.C
	D.Site Map See End of Evaluation Form	Part II.A.4.F
•	E. Description of Controls:	•
	Erosion and sediment controls, including:	
	a. Initial site stabilization	Part II.A.4.G.1.a
	b. Erosion and sediment controls	Part II.A.4.G.1.b
	c. Replacement of inadequate controls	Part II.A.4.G.1.c
	d. Removal of off-site accumulations	Part II.A.4.G.1.d
	e. Maintenance of sediment traps/basins @ 50% capacity	Part II.A.4.G.1.e
	f. Litter, construction debris and chemicals properly handled	Part II.A.4.G.1.f
	g. Off-site storage areas and controls	Part II.A.4.G.1.g
	2. Stabilization practices:	
	a. Description and schedule for stabilization	Part II.A.4.G.2.a
	b. Description of buffer areas	Part II.A.4.G.2.b
	c. Records of stabilization	Part II.A.4.G.2.c
	d. Deadlines for stabilization	Part II.A.4.G.2.d
	3. Structural Practices:	
	-Describe structural practices to divert flows, store flows, or otherwise limit runoff	Part II.A.4.G.3
	a. Sediment basins	Part II.A.4.G.3.a.1
	-Are more than 10 acres draining to a common point? If so, are sediment basins included?	Part II.A.4.G.3.a.1
	-Sediment basin dimensions and capacity description and calculations	Part II.A.4.G.3.a.1
	-If a basin wasn't practicable, are other controls sufficient?	Part II.A.4.G.3.a.1
	b. Velocity dissipation devices concentrated flow from 2 or more acres	Part II.A.4.G.3.b
	F. Other controls including:	
	1. Solid waste control measures	Part II.A.4.H.1
	2. Vehicle off-site tracking controls	Part II.A.4.H.2
	3. Compliance with sanitary waste disposal	Part II.A.4.H.4
	4. Does the site have a concrete washout area controls?	Part II.A.4.H.5
	5. Does the site have fuel storage areas, hazardous waste storage and/or truck wash areas	
	controls?	Part II.A.4.H.6
	G. Identification of allowable non-storm water discharges	Part II.A.4.I
	-Appropriate controls for dewatering, if present	Part I.B.12.C
	H. State or local requirements incorporated into the plan.	Part II.A.4.K

Yes = Complete

No = Incomplete/Deficient

N/A = Not applicable to project

No	N/A	I. Inspections	Permit Section
		1. Inspection frequency listed?	Part II.A.4.L.1
		2. Inspection form	Part II.A.4.L.2
		Ours.	
		If not ours, does it contain the following items:	
		a. Inspector name and title	Part II.A.4.L.2.a
		b. Date of inspection.	Part II.A.4.L.2.b
		c. Amount of rainfall and days since last rain event (14 day only)	Part II.A.4.L.2.c
		d. Approx beginning and duration of storm event	Part II.A.4.L.2.d
		e. Description of any discharges during inspection	Part II.A.4.L.2.e
		f. Locations of discharges of sediment/other pollutants	Part II.A.4.L.2.f
		g. BMPs in need of maintenance	Part II.A.4.L.2.g
		h. BMPs in working order, if maintenance needed (scheduled and completed)	Part II.A.4.L.2.h
		i. Locations that are in need of additional controls	Part II.A.4.L.2.i
		j. Location and dates when major construction activities begin, occur or cease	Part II.A.4.L.2.j
		k. Signature of responsible/cognizant official	Part II.A.4.L.2.k
		3. Inspection Records	Part II.A.4.L.3
		4. Winter Conditions	Part II.A.4.L.4
		5. Adverse Weather Conditions	Part II.A.4.L.5
		J. Maintenance Procedures	Part II.A.4.M
		K. Employee Training	Part II.A.4.N
		K. Employee Training Signed Plan Certification	Part II.A.7. and Part
		Signed Plan Certification	
		Signed Plan Certification D. Site Map showing:	Part II.A.7. and Part II.B.10
		Signed Plan Certification D. Site Map showing: 1. Pre-construction topographic view	Part II.A.7. and Part II.B.10 Part II.A.4.F.1
		Signed Plan Certification D. Site Map showing: 1. Pre-construction topographic view 2. Drainage flow	Part II.A.7. and Part II.B.10 Part II.A.4.F.1 Part II.A.4.F.2
		Signed Plan Certification D. Site Map showing: 1. Pre-construction topographic view 2. Drainage flow 3. Approximate slopes after grading activities	Part II.A.7. and Par II.B.10 Part II.A.4.F.1 Part II.A.4.F.2 Part II.A.4.F.2
		Signed Plan Certification D. Site Map showing: 1. Pre-construction topographic view 2. Drainage flow 3. Approximate slopes after grading activities 4. Areas of soil disturbance and areas not disturbed	Part II.A.7. and Par II.B.10 Part II.A.4.F.1 Part II.A.4.F.2 Part II.A.4.F.2 Part II.A.4.F.3
		Signed Plan Certification D. Site Map showing: 1. Pre-construction topographic view 2. Drainage flow 3. Approximate slopes after grading activities 4. Areas of soil disturbance and areas not disturbed 5. Location of major structural and non-structural controls.	Part II.A.7. and Par II.B.10 Part II.A.4.F.1 Part II.A.4.F.2 Part II.A.4.F.2 Part II.A.4.F.3 Part II.A.4.F.4
		Signed Plan Certification D. Site Map showing: 1. Pre-construction topographic view 2. Drainage flow 3. Approximate slopes after grading activities 4. Areas of soil disturbance and areas not disturbed 5. Location of major structural and non-structural controls. 6. Location of main construction entrance and exit.	Part II.A.7. and Par II.B.10 Part II.A.4.F.1 Part II.A.4.F.2 Part II.A.4.F.3 Part II.A.4.F.4 Part II.A.4.F.5
		Signed Plan Certification D. Site Map showing: 1. Pre-construction topographic view 2. Drainage flow 3. Approximate slopes after grading activities 4. Areas of soil disturbance and areas not disturbed 5. Location of major structural and non-structural controls. 6. Location of main construction entrance and exit. 7. Areas where stabilization practices are expected to occur.	Part II.A.7. and Par II.B.10 Part II.A.4.F.1 Part II.A.4.F.2 Part II.A.4.F.3 Part II.A.4.F.4 Part II.A.4.F.5 Part II.A.4.F.6
		Signed Plan Certification D. Site Map showing: 1. Pre-construction topographic view 2. Drainage flow 3. Approximate slopes after grading activities 4. Areas of soil disturbance and areas not disturbed 5. Location of major structural and non-structural controls. 6. Location of main construction entrance and exit. 7. Areas where stabilization practices are expected to occur. 8. Locations of off-site materials, waste, borrow area or storage area.	Part II.A.7. and Par II.B.10 Part II.A.4.F.1 Part II.A.4.F.2 Part II.A.4.F.2 Part II.A.4.F.3 Part II.A.4.F.4 Part II.A.4.F.5 Part II.A.4.F.6 Part II.A.4.F.7
		Signed Plan Certification D. Site Map showing: 1. Pre-construction topographic view 2. Drainage flow 3. Approximate slopes after grading activities 4. Areas of soil disturbance and areas not disturbed 5. Location of major structural and non-structural controls. 6. Location of main construction entrance and exit. 7. Areas where stabilization practices are expected to occur. 8. Locations of off-site materials, waste, borrow area or storage area. 9. Locations of areas used for concrete wash-out.	Part II.A.7. and Par II.B.10 Part II.A.4.F.1 Part II.A.4.F.2 Part II.A.4.F.2 Part II.A.4.F.3 Part II.A.4.F.4 Part II.A.4.F.5 Part II.A.4.F.6 Part II.A.4.F.7 Part II.A.4.F.8
		Signed Plan Certification D. Site Map showing: 1. Pre-construction topographic view 2. Drainage flow 3. Approximate slopes after grading activities 4. Areas of soil disturbance and areas not disturbed 5. Location of major structural and non-structural controls. 6. Location of main construction entrance and exit. 7. Areas where stabilization practices are expected to occur. 8. Locations of off-site materials, waste, borrow area or storage area. 9. Locations of areas used for concrete wash-out. 10. Locations of surface waters on site.	Part II.A.7. and Par II.B.10 Part II.A.4.F.1 Part II.A.4.F.2 Part II.A.4.F.3 Part II.A.4.F.4 Part II.A.4.F.5 Part II.A.4.F.6 Part II.A.4.F.7 Part II.A.4.F.8 Part II.A.4.F.9
		Signed Plan Certification D. Site Map showing: 1. Pre-construction topographic view 2. Drainage flow 3. Approximate slopes after grading activities 4. Areas of soil disturbance and areas not disturbed 5. Location of major structural and non-structural controls. 6. Location of main construction entrance and exit. 7. Areas where stabilization practices are expected to occur. 8. Locations of off-site materials, waste, borrow area or storage area. 9. Locations of areas used for concrete wash-out.	Part II.A.7. and Part II.B.10 Part II.A.4.F.1 Part II.A.4.F.2 Part II.A.4.F.2 Part II.A.4.F.3 Part II.A.4.F.4 Part II.A.4.F.5 Part II.A.4.F.5 Part II.A.4.F.7 Part II.A.4.F.7