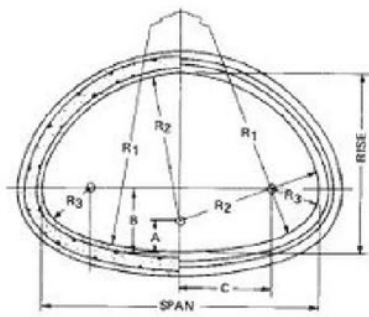


STATEMENT OF WORK
OPP# 1144508, Drainage Repair on Chappie James Rd
Dated 20 February 2025

The purpose of this project is to remove and replace a section of Chappie James Road to be able to install three separate runs of reinforced concrete arched pipe, backfill and bring up to grade, then place 10 inches of 4000 psi concrete. The contractor will be required to construct 2 single lane bypass roads, one on each side of the road. These will be removed at the end of the project.

This project will utilize the 2006 Edition of the Louisiana Standard Specifications for Road and Bridges.

The arch pipes to be installed will be hydraulically equivalent to an 18" inch round pipe, see below:



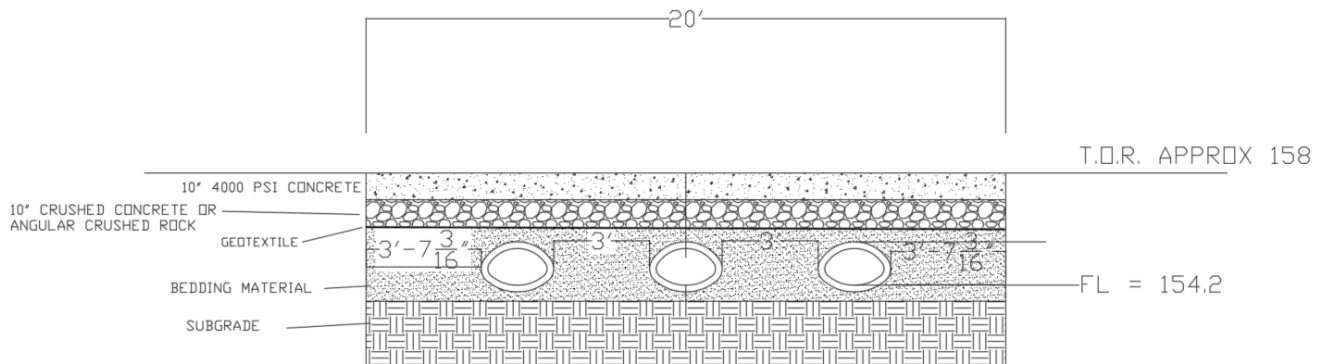
$$A = \text{Rise} - R_2$$

$$B = A + \sqrt{(R_2 - R_3)^2 - C^2}$$

$$C = \frac{\text{Span}}{2} - R_3$$

Approximate Equivalent Round Size, in.	Water Area, ft ²	Rise, in.	Span, in.	A, in.	B, in.	C, in.	R ₁ , in.	R ₂ , in.	R ₃ , in.
15	1.1	11	18	3/8	4 1/16	4 1/32	22 7/8	10 9/8	4 1/32
18	1.65	13 1/2	22	3/4	6	5 3/4	27 1/2	13 3/4	5 1/4
21	2.2	15 1/2	26	3/4	6 1/4	7 1/4	35 1/2	14 3/4	5 1/4
24	2.8	18	28 1/2	3 7/16	5 7/32	9 1/32	40 1/16	14 1/16	4 11/32
30	4.4	22 1/2	36 1/4	3 3/4	7 11/16	12 3/32	51	18 3/4	6 1/32

Each run of pipe will have 7 arch pipes spaced evenly, see diagram below:



Construction Signage

The contractor will be required to install and maintain construction signage, stanchions and other traffic control devices throughout the project duration.

Reference the attached signage layout. All signs shall be clean, highly reflective and lights shall be highly visible during darkness.

Delineate the edges of the bypass roads with 48" tall lighted stanchions similar to what is shown below:

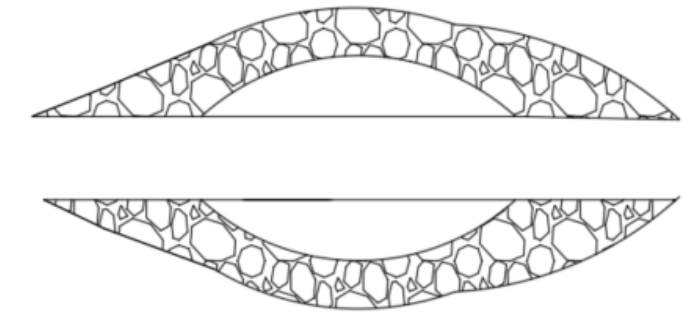


Place stanchions no more than 20 feet apart along the edges of the bypass road(s). Post 15 mph signs at each entrance of each bypass.

Bypass Road

The contractor will construct two 15' wide x approximately 185 feet long bypass roads on either side of the work zone. The contractor will be required to "degrass" the paths of where the two bypass roads will be and then will be required to place geotextile fabric down prior to building the bypass roads. The contractor will then build the aggregate bypass roads by bringing in about 12" of stiff soil and placing 12 inches thick of either asphalt millings or SB 2 rock.

These bypass roads will be removed after the concrete has been poured and adequate compressive strength has attained. The contractor will need to make provisions for keeping the area between the bypass road and the new pipes location in the "dry". See below for bypass road(s) layout, actual locations will be shown in the field:



Concrete Pipe Installation and Road Repair Construction

After the bypass roads are built and traffic has been transitioned onto them, the contractor will begin the process of laying the reinforced concrete arch pipes by sawcutting the existing asphalt road as indicated on the plan sheets and will also be shown in the field, protect sawcut edges so that a clean “tie-in” from concrete to asphalt road is made. A core sample indicated that the hot mix of the road is about 8-10 inches thick. Remove the hot mix, existing base course and enough subgrade material to provide a section of the following: approximately 6 inches of bedding material for the pipes to set on, backfill with select material to within approximately 20 inches from the top of the road down, then place geotextile material on the bedding material and 10 inches of either crushed aggregate or crushed concrete base course, then 10 inches of 4,000 psi concrete with a three day cure time. Place bedding material according to the specifications in lifts of about 6”. Bedding material to be compacted to 95% modified proctor. There should be roughly about 10 inches of select fill from the top of the pipe to the geotextile.

The new pipes will be laid with the upstream flowline two tenths of a foot above the flowline of the existing cross drain to the northwest of the construction zone and shall have 0.025% slope from one end to the other. Joints shall be wrapped with filter cloth with a 24” overlap.

The contractor will then install bedding and select material, pipes, geotextile, 10 inches of aggregate base course compacted to 95% standard proctor and ten inches of concrete.

The contractor will be required to use the mix design below to attain a 3-day required compression strength of 4000 psi:

5000 PSI HES @ 3 Days

Cement: c	Type I/II, ASTM C 150	658 lb/cy
Flyash: p	Class C, ASTM C 618	0 lb/cy
Coarse Aggregate:	#57 Coarse Aggregate, ASTM C 33	1825 lb/cy
Fine Aggregate:	Natural Sand, ASTM C 33 note 3	1316 lb/cy
Adva 195 Type F	HRWR ASTM C 494	7.00 oz/cwt
Water:	City, Potable	258.0 lb/cy
Slump: 2.00 - 4.00 in	Yield:	27.00 cf/cy
Air Content 3% Max Entrapped		
W/C Ratio (w/c+p):	0.39	
Unit Weight (lb/cf):	150.26	

Test cylinders made by anyone other than a current ACI Certified Level 1 concrete field testing technician are not valid. Please verify that your testing lab's concrete field technician is currently Certified ACI Level 1 concrete field testing technician before samples are taken

The contractor will then remove the Type III barricades to allow traffic to utilize the new section of pavement while the bypass roads are being removed. Ensure 15 mph speed limit signs are still in place.

Once the bypass roads are removed, the contractor shall stripe the two yellow lines of the road for 150 feet either side from the center of the new middle pipe, yellow lines to be 6 inches wide. Place 4" white edge lines the same, 150 feet out from the middle of the middle pipe—all striping to be retro-reflective.

Once the striping has sufficiently dried, the contractor will remove the road closed signs and open the road.

Time of performance is 14 days.

Lay-down Area Temporary Fencing

1. The Contractor shall furnish all labor, materials, and equipment necessary to provide secure and visually aesthetic temporary fencing for surrounding project equipment and material in lay-down areas.

Work shall include:

- a. Clearing area of all encumbrances to safe erection of fencing.
- b. Provide fence that is: metal tube frame; metal woven wire mesh (minimum 11 gauge); minimum 6 feet In height.
- c. Provide integral to fence visual blocking material, either slat weave or sheet goods.
- d. Erecting fence in such manner as to prevent loss of fencing or blocking due to inclement weather.
- e. At no time shall fence interfere with fire egress paths or fire equipment ingress, to include periods when gates are in operation.

Contractor shall submit cut sheets on all items for installation, prior to procurement, for approval by the C.E. Architect. Complete the design as indicated on drawings in accordance with UFC 1-200-01 General Building Requirements which includes the latest editions of the Internationals Building Code and NFPA Life Safety Code, and Americans with Disabilities Act. All required work shall be accomplished in accordance with the Barksdale AFB Design Compatibility Guidelines (DCG). All colors and materials shall be selected by the Civil Engineer Architect in accordance with the DCG. Construction shall be conducted in a quality workmanlike manner. Contractor shall take any steps necessary to protect government and occupant property from damage caused by weather or other occurrence while work is in progress.

2. Upon notification of completion by the contractor a determination will be made as to the satisfactory completion and acceptance of the contract specification(s). Any segment of the operation that is not acceptable because of an unsightly or unprofessional appearance will be justification for rejection of the treatment. The contractor will incur all costs, both labor and materials, for reaccomplishment of any unacceptable work identified.

3. The contractor will be responsible for and incur any and all labor and material costs required to repair any damages to government facilities that occurred during and as result of repair work, replacement operations, or new work, under this contract. This damage will be identified as separate from the condition of the facilities as identified during the initial inspection. The damage will be identified, but not limited, to the following items:

- a. Government gas, water and electric transmission and distribution systems
- b. Occupant personal property

Additional Information

- a. The contractor will begin work not earlier than 7:00 am each workday. Work will not be performed later than 4:30 pm.
- b. Inspections will be conducted by the Contracting Officer and /or Contracting Officer's Representative and the Contractor's Manager.

- c. Any discrepancies should be noted and forwarded to the Architect.

Background Checks for Contractor Personnel Requiring Entry/Access to Barksdale AFB (Jan 2005) Security Forces will conduct a National Crime and Information Center (NCIC) background check on all contractor or subcontractor personnel prior to granting access to the installation.

CONSTRUCTION AND DEMOLITION DEBRIS REPORTS

The following requirement is listed in Attachment 2 of the basic contract, Environmental Requirements for Contractors Working on Barksdale Air Force Base. These reports are required to be submitted on an AF 3000 Material Submittal and should be incorporated into the AF66 Material Submittal Schedule at time of contract award. Final payment will not be released until C&D reports have been submitted and accepted by the Government. "Construction and Demolition (C&D) debris is generated as a result of construction, renovation, or demolition activities. Although C&D debris is usually considered a single waste stream, the composition actually varies with each activity and the type, size, and location of the structures involved. Disposing of C&D debris in landfills consumes enormous amounts of space and is both economically and environmentally costly. In accordance with [AFI 32-7042](#) and BAFB's [Integrated Solid Waste Management Plan \(ISWMP\)](#), ALL WEIGHTS OF C&D MATERIALS RECYCLED AND DISPOSED MUST BE REPORTED TO THE RECYCLE PROGRAM MANAGER."

CONTRACT COMPLETION INSPECTIONS

The contractor will schedule (preferably with 3 working days' notice) a pre-completion inspection to be held approximately 10 calendar days prior to the expiration of the contract. This inspection may result in a "punch list" indicating items to be furnished or work to be completed by the contractor or subcontractors in order to complete the work specified in the contract documents. This list may not be construed to be all inclusive. A copy of the list will be furnished to the contractor within 2 workdays for his use in completing the contractual work. If the pre-completion inspection results in no "punch list" and the work is complete, this inspection may be considered the "final" inspection as determined by the Contracting Officer. If required, the contractor will be responsible for scheduling the contract completion inspection (preferably with 3 working days' notice) to be held no later than the final day of contract performance. Should this inspection result in a "punchlist", the contractor will have 10 calendar days (after receipt of punchlist) to complete all punchlist items and notify the Contracting Officer of this. NO FINAL INVOICE SHALL BE PAID UNTIL ALL PUNCHLIST ITEMS ARE COMPLETED TO THE SATISFACTION OF THE CONTRACTING OFFICER. Should a contractor exceed the time allowed for these corrections, it may result in negative past performance which could affect future contract awards.

PERFORMANCE INFORMATION

NOTICE TO PROCEED will be issued within fourteen (14) calendar days after award of contract. Award date shall be established as the date of mailing or otherwise furnishing a properly executed award document to the successful offeror.

WORK SCHEDULE

Working hours for the contractor will normally be between the hours of 7:00 a.m. and 4:30 p.m. excluding Saturdays, Sundays, Military Family Days, and Federal Holidays (New Year's Day, Birthday of Martin Luther King, Jr., Presidents Day, Memorial Day, Juneteenth, Independence Day, Labor Day, Columbus Day, Veteran's Day, Thanksgiving Day and Christmas Day). If the contractor desires to work during periods other than above, additional government inspection forces may be required. The contractor must notify the contracting officer three days in advance of his/her intention to work during other periods to allow assignment of additional inspection forces when the contracting officer determines they are reasonably available. If such force is reasonably available, the contracting officer may authorize the contractor to perform work during periods other

than normal duty hours/days, however, if inspections are required to perform in excess of their normal duty hours/days solely for the benefit of the contractor, the actual cost of inspection at overtime rates will be charged to the contractor. These adjustments to the contract price may be made periodically as directed by the contracting officer.

DELIVERY TIME

The period of performance on this project will be fourteen (14) Calendar days from the Notice to Proceed (NTP) date.

-----END OF SOW-----