



North Carolina Department of Public Safety

Emergency Management

Roy Cooper, Governor
Erik A. Hooks, Secretary

Michael A. Sprayberry, Director

July 25, 2017

Mr. Ray Oxendine
Treasurer
Fayetteville, City of
433 Hay St.
Fayetteville, NC 28301-5537

RE: FEMA – 4285–DR-NC
Applicant ID#: 051-22920-00
PW- 01262(0) for \$1529530.19

Dear Mr. Ray Oxendine:

Enclosed is a copy of your supplemental project application package that has been approved by the Federal Emergency Management Agency / Department of Homeland Security under Catalogue of Federal Domestic Assistance (CFDA) number 97.036 for '*Disaster Grants – Public Assistance (Presidentially Declared Disasters)*'. Please note the Project Application Summary lists the approved amounts from the Project Worksheet(s) (PW's) and the allowed administrative costs.

Please provide information concerning insurance settlements as soon as possible when applicable to any of your PW's so that we may expedite funding. Only uninsured losses for eligible work may receive funding. Also, it is necessary to ascertain that there is no duplication of benefits in the funding of the project work. Individual PW's equal to or greater than \$123100 are considered large projects. These PW's will be reimbursed based on actual **documented** expenditures. Prior to completion of any large project, the maximum payment will be 75% of the Obligated Project Cost. The final 25% of the total Obligated Project Cost will be paid following a final inspection. **PW's less than \$123100 will be reimbursed the total Obligated Project Cost upon approval.**

Reimbursement request and summary of documentation forms are enclosed for large projects. These forms must be completed and returned before any large project payments are authorized. Small projects are paid upon obligation after all special considerations have been resolved. Clear and concise backup documentation that justify all costs must accompany these forms. Administrative allocations can be reimbursed per Project Worksheet based on supporting documentation by the applicant.

Pursuant to Title 44 of the Code of Federal Regulations (CFR), Section 13.40, the North Carolina Division of Emergency Management is required to submit progress reports to the Federal Emergency Management Agency for every disaster assistance grant. Accordingly, each disaster assistance applicant (subgrantee) must submit monthly progress reports for all open large project grants to the N.C. Division of Emergency Management.

MAILING ADDRESS:
4236 Mail Service Center
Raleigh NC 27699-4236
www.ncdps.gov
www.readync.org



OFFICE LOCATION:
1636 Gold Star Drive
Raleigh, NC 27607-3371
Telephone: (919) 825-2500
Fax: (919) 825-2685

An Equal Opportunity Employer

Mr. Ray Oxendine
July 22, 2017
Page Two

Enclosed, you will find a sample Progress Report form that you may use to report progress for each open large project. However, you may use any format to report progress for these grants as long as the information contained on the sample form is included. The first Progress Report will be due on the 10th day of the month following receipt of the letter, and subsequent Progress Reports will be due on the 10th day of each month thereafter until project completion. Please refer to the Public Assistance Program and Policy Guide (January 2016), Pages 140-141 for more information regarding progress-reporting requirements.

As the applicant, you have the right to appeal through the Grantee (N.C. Emergency Management Public Assistance) within 60 days from the receipt of a notice of an action or decision. Information on appeals is referenced in the "Public Assistance Program and Policy Guide (January 2016)," pp. 139-140, and in CFR §206.606.

You are required to complete work within each PW's approved scope of work. Please comply with all necessary project management procedures to ensure that funds are expended in an appropriate manner.

TYPE OF WORK	WORK COMPLETION DATE
Emergency (Categories A-B)	6 Months
Permanent (Categories C-G)	18 Months

All accounting records should be maintained for three (3) years following closeout of your disaster file. In addition, all projects are subject to audit by the FEMA Office of Inspector General. If you have any questions, please contact Billie Owens, Grants Manager of North Carolina Division of Emergency Management, Public Assistance office at (919) 825-2342.

Sincerely,



Andrew Innis
Public Assistance Manager

AI/we

Enclosures

PW-01262(0) for \$1529530.19

PA-04-NC-4285-PW-01262(0) P	
Applicant Name:	Application Title:
FAYETTEVILLE	4-D0300 Mirror Lake Dam
Period of Performance Start:	Period of Performance End:
10-10-2016	04-10-2018

Bundle Reference # (Amendment #)	Date Awarded
PA-04-NC-4285-PW-01262(1253)	07-19-2017

Subgrant Application - FEMA Form 90-91

Note: The Effective Cost Share for this application is 75%

FEDERAL EMERGENCY MANAGEMENT AGENCY PROJECT WORKSHEET						
DISASTER		PROJECT NO.	PA ID NO.	DATE	CATEGORY	
FEMA	4285 - DR -NC	4-D0300	051-22920-00	06-15-2017	D	
APPLICANT: FAYETTEVILLE				WORK COMPLETE AS OF: 06-15-2017 : 5 %		
Site 1 of 1						
DAMAGED FACILITY:				COUNTY: Cumberland		
Mirror Lake Dam						
LOCATION:				LATITUDE:	LONGITUDE:	
PA-04-NC-4285-PW-01262(0): Mirror Lake Dam; 2411 Mirror Lake Drive; Fayetteville, NC 28303				35.054884	-78.921777	
GPS: 35.054884, -78.921777						
Current Version:						
DAMAGE DESCRIPTION AND DIMENSIONS:						
<p>PA-04-NC-4285-PW-01262(0):</p> <p>During the incident period of: October 4, 2016 to October 24, 2016, Hurricane Matthew, a major Category 4 event entered the southern border of North Carolina on October 4, 2016 and traveled north leaving in its path widespread torrential rainfall, hurricane force winds, record level tidal action and record breaking flooding throughout the Central and Eastern North Carolina Counties.</p> <p>The Applicant, City of Fayetteville, is responsible for the dam and the road. Mirror Lake was inundated with rainfall that the current design could not handle and the lake overtopped the dam and caused embankment, road, and other damages on the downstream side. In conjunction with WK Dickson, the applicant did a visual assessment of Mirror Lake Dam. It was determined that the dam was in a partially-functioning condition and was suggested that the lake be drained until the dam could be repaired. The road (Mirror Lake Drive) over top the dam is closed and the lake has been drained. The damages that were noted consisted of storm catch basins, manholes, 305 LF of 18" RCP, 120 LF of 15" RCP, and a section (190' X 32') of the road on top Mirror Lake Dam was washed away. The downstream embankment erosion (125' X 45 X 25') washed away the existing guard rail (165 LF of steel beam guard rail) and curb and gutter (250 LF of 2'6") on the downstream road section. A sink hole has developed around the outlet structure on the downstream right-hand side that indicates a pipe and joint failure may be present. The quadruple barrel end wall and associated concrete energy dissipaters have substantial erosion and there appears to be a separation or broken joint in one of the barrel pipes. Also, there was no toe drain noted at the time of inspection and it has been determined that it was either washed away or covered by debris. The overflow weir has a trash gate that appears to be damaged by debris.</p> <p>This project worksheet covers the consultant fees, contractor work, and estimated cost to repair the dam and its components. All utility damages from this event at this site are the responsibility of PWC (a separate Applicant.)</p> <p>Current Version:</p>						
SCOPE OF WORK:						

PA-04-NC-4285-PW-01262(0):
Work Completed

The applicant utilized WK Dickson to conduct a survey and Hydrology and Hydraulics study on Mirror Lake Dam for a total cost of \$12,665.69.

The applicant has hired a consultant firm, Tetra Tech, to assist in collecting information and developing this project for a total cost of \$9,317.50.

Work to be Completed

The applicant, in accordance with the City's Procurement Policy, will bid the project out. The applicant will select the company based on low bid, availability to mobilize, and perform the necessary repairs in a timely manner to complete all the work at Mirror Lake Dam. The repairs will return the dam back to pre-disaster condition and will include the repair of Mirror Lake Drive on top of the dam, removing and repairing RCP's that were damaged, removing and repairing outlet structures, backfilling dam embankments, applying erosion control to the upstream and downstream side of dam, and repairing the guardrail.

1. Debris Removal: 1LS at \$50,000.00 = \$50,000.00
2. Unclassified Excavation: 3,200CY at \$18.00 = \$57,600.00
3. Remove Existing Asphalt Paving: 675SY at \$26.00 = \$17,550.00
4. Fine Grading: 675TN at \$20.00 = \$13,500.00
5. Asphalt Binder for Plant Mix: 15TN at \$550.00 = \$8,250.00
6. Binder Course Type I19.0B: 225TN at \$140.00 = \$31,500.00
7. Surface Course Type S9.5B: 15TN at \$168.00 = \$2,520.00
8. Aggregate Base Course: 210TN at \$40.00 = \$8,400.00
9. 2'x6" Concrete Curb and Gutter: 250LF at \$27.00 = \$6,750.00
10. Dam Embankment Backfill: 4,200CY at \$50.00 = \$210,000.00
11. Dewatering (Pump and Siphon): 1LS at \$30,000.00 = \$30,000.00
12. Stone Rip-Rap Class 1: 50TN at \$100.00 = \$5,000.00
13. Steel Beam Guardrail: 165LF at \$15.00 = \$2,475.00
14. Guardrail Anchor Type CAT 1: 2EA at \$550.00 = \$1,100.00
15. Guardrail Post: 28EA at \$17.50 = \$490.00
16. Thermoplastic Payment Markings 4" 120 mills: 190LF at \$3.75 = \$712.50
17. Erosion and Sediment Control: 1LS at \$15,000.00 = \$15,000.00
18. Erosion Control Matting: 350SY at \$10.00 = \$3,500.00
19. Seeding: 1LS at \$15,000.00 = \$15,000.00
20. Construction Staking: 1LS at \$10,000.00 = \$10,000.00
21. Remove and Dispose 42"RCP: 288LF at \$100.00 = \$28,800.00
22. Install 15"RCP: 118LF at \$100.00 = \$11,800.00
23. Install 18"RCP: 305LF at \$130.00 = \$39,650.00
24. Install 7'x10'RCBC: 144LF at \$1,100.00 = \$158,400.00
25. Catch Basin: 6EA at 800.00 = \$4,800.00
26. Masonry Drainage Structure: 2EA at \$5,000.00 = \$10,000.00
27. Remove Outlet Structure: 1EA at \$10,000.00 = \$10,000.00
28. Furnish/Install Outlet Structure: 1EA at \$150,000.00 = \$150,000.00

29. Remove Endwall: 1EA at \$2,000.00 = \$2,000.00
30. Furnish/Install Endwall: 1EA at \$7,200.00 = \$7,200.00
31. Toe Drain: 160LF at \$120.00 = \$19,200.00
32. Mobilization and Demobilization: 1LS at \$50,000.00 = \$50,000.00

This project has not been started therefore a CEF has been prepared to capture the estimated costs for this project. All quantities for this report were calculated from the Engineers preliminary assessment report and a site visit by this inspector. Base Cost Total for repairing the dam is \$969,197.50. The CEF was completed and after applying the required factors the total estimated cost of the project is \$1,507,547.00. The CEF is attached to this PW. Mirror Lake Dam qualifies for the "non-reporting" category under the nationwide 3 permit per the USACE, an email is attached to this PW.

Total Project Cost

Contractor \$12,665.69
 Consultant Fee \$9,317.50
 CEF \$1,507,547.00
 Total \$1,529,530.19

PROJECT NOTES:

DIRECT ADMINISTRATIVE COSTS: The Sub-grantee is not requesting direct administrative costs that are directly chargeable to this specific project. Associated eligible work is related to administration of this PA project only and in accordance with 44 CFR §13.22. These costs are treated consistently and uniformly as direct costs in all Federal awards and other Sub-grantee activities and are not included in any approved indirect cost rates.

HAZARD MITIGATION: Mitigation was discussed with the Applicant. No feasible cost effective mitigation opportunities were identified.

PROCUREMENT: The Sub-grantee was advised by FEMA PAC and/or Project Specialist that in the seeking of proposals and letting of contracts for eligible work, the Sub-grantee must comply with its Local, State and/or Federal procurement laws, regulations, and procedures as required by 2 CFR 317-326.

RECORD RETENTION: As described in 2 CFR 200.33 Sub-grantee must maintain all work-related records for a period of three (3) years from Sub-grantee closure (final payment), all records relative this project worksheet are subject to examination and audit by the State, FEMA and the Comptroller General of the United States and must reflect work related to disaster specific costs.

PERMITS: Federal Funding is contingent upon acquiring all necessary Federal, State and Local permits. Noncompliance with this requirement may jeopardize the receipt of federal funds. The Sub-grantee is responsible for obtaining all required permits prior to the commencement of work.

ENVIRONMENTAL AND HISTORIC PRESERVATION: Sub-grantee must comply with all applicable environmental and historic preservation laws. Federal funding is contingent upon acquiring all necessary Federal, State and Local permits. Noncompliance with this requirement may jeopardize the receipt of federal funds.

CHANGES TO SCOPE OF WORK DESCRIBED IN THIS PW/SA (SUB-GRANT APPLICATION): The Sub-grantee shall comply with all applicable codes and standards in the completion of eligible work to repair or replace damaged public facilities. Any change to the approved scope of work on a Project Worksheet (PW/SA) must be reported and approved before work begins. Failure to report changes may jeopardize Federal and State funding. In the case of a change in scope of work, the applicant should immediately notify, North Carolina Division of Emergency Management prior to starting work.

INSURANCE REVIEW: The Sub-grantee is aware that all projects are subject to an insurance review as stated in 44 C.F.R. Sections 206.252 and 206.253. If applicable, an insurance determination will be made either as anticipated proceeds or actual proceeds in accordance with the Sub-grantee's insurance policy which may affect the total amount of the project. Approval of this project may result in an obtain/maintain insurance requirement. The Sub-grantee must comply with insurance reviewer terms and conditions upon receipt of Sub-grant from the State.

Current Version:

Does the Scope of Work change the pre-disaster conditions at the site? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Special Considerations included? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Hazard Mitigation proposal included? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is there insurance coverage on this facility? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

PROJECT COST

ITEM	CODE	NARRATIVE	QUANTITY/UNIT	UNIT PRICE	COST
		*** Version 0 ***			
		Work Completed			

1	9003	Contract Costs	1/LS	\$ 12,665.69	\$ 12,665.69
2	9999	Consultant Fees	1/LS	\$ 9,317.50	\$ 9,317.50
		Work To Be Completed			
3	9003	Contract Costs	1/LS	\$ 1,507,547.00	\$ 1,507,547.00
		Direct Subgrantee Admin Cost			
4	9903	No Direct Administrative Costs	1/LS	\$ 0.00	\$ 0.00
				TOTAL COST	\$ 1,529,530.19
PREPARED BY CHRISTOPHER H FERGUSON			TITLE Project specialist	SIGNATURE	
APPLICANT REP. Ray Oxendine			TITLE Treasurer	SIGNATURE	

Report Generated on:	07/21/2017 12:37
Data Captured As Of:	07/21/2017 12:37
Disaster Number:	4285
Bundle:	PA-04-NC-4285-PW-01262

Capture Date: 07/21/2017 12:37

Federal Emergency Management Agency

Project Application Grant Report (P.2)

Disaster: FEMA-4285-DR-NC

Number of Records: 1

Applicant ID: 051-22920-00
 Bundle # : PA-04-NC-4285-
 PW-01262(1253)

Applicant: FAYETTEVILLE

PW #	Cat	Cost Share	Projected Completion Date	Approved PW Amount (\$)
PA-04-NC-4285-PW-01262(0)	D	N	04-10-2018	1,529,530.19

Facility Number: 1

Facility Name: Mirror Lake Dam

Mirror Lake Dam; 2411 Mirror Lake Drive; Fayetteville, NC 28303

Location: GPS: 35.054884, -78.921777

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Scope of Work:

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1 PW	PWs (\$)	Subgrantee Admin Exp. (\$)	Total (\$)
Amount Eligible (\$)	1,529,530.19	0.00	1,529,530.19
Federal Share (\$)	1,147,147.64	0.00	1,147,147.64