



North Carolina Department of Environment and Natural Resources
Division of Water Quality

Beverly Eaves Perdue
Governor

Coleen H. Sullins
Director

Dee Freeman
Secretary

April 13, 2011

Mr. Jamie Revels, P.E., Utilities Director
Town of Cary Public Works & Utilities Department
P.O. Box 8005
Cary, North Carolina 27513-8005

SUBJECT: Town of Cary and Town of Apex
Western Wake Water Reclamation Facility
Contract 1 – Treatment Works
Approval of the Plans and Specifications
Project No. CS370616-05

Dear Mr. Revels:

The review for completeness and adequacy of the project construction plans and specifications has been concluded by the Construction Grants & Loans Section of the North Carolina Division of Water Quality. Therefore, said plan documents are hereby approved. Eligibility for Revolving Loan funding is determined as follows:

Eligible

The liquid-treatment train of the Western Wake Water Reclamation Facility, consisting of the following components: dual 40 MGD mechanical bar screens; a manual bypass bar screen; an influent Parshall flume flowmeter; an influent composite sampler; a vortex grit removal system rated at 50 MGD peak flow with grit classifier with grit washer and grit removal system, including three (3) 300 gpm grit transfer pumps and a 10,000 cfm capacity odor control system; a 4-way flow splitter with a splitter box scum pump station with one 350 gpm scum pump; four (4) parallel biological reactor trains, each consisting of 0.226 MG anaerobic cell #1 with 15 Hp submersible mixer, 0.226 MG anaerobic cell #2 with 15 Hp submersible mixer, 0.402 MG anoxic cell #3 with two 15 Hp submersible mixers, 0.402 MG anoxic cell #4 with two 15 Hp submersible mixers, 0.628 MG aerobic cell #5 with dual 4,211 gpm jet aeration pumps and jet aeration piping, 0.628 MG aerobic cell #6 with a 4,027 gpm jet aeration pump and jet aeration piping, 0.628 MG aerobic cell #7 with a 5,126 gpm jet aeration pump and jet aeration piping, 0.628 MG post-anoxic/swing cell #8 with a 5,126 gpm jet aeration pump and jet aeration piping, 0.109 MG re-aeration cell #9 with a 1,100 gpm jet aeration pump and jet aeration piping, with

coarse air diffusers in reactor effluent channel; four (4) 6,250 gpm anoxic recycle (ARCY) pumps; four (4) 9,375 gpm nitrified recycle (NRCY) pumps; four (4) 6,835 scfm air blowers; biological reactor basin drain pump station, consisting of one 2,678 gpm pump; coarse air diffusers in clarifier influent channel; four (4) folded rectangular clarifiers, each containing 60-foot by 140-foot basins with 14.3-foot sidewater depth and chain-driven sludge scraper flights; four (4) folded rectangular clarifiers, each containing 45-foot by 85-foot basins with 14.3-foot sidewater depth and chain-driven sludge scraper flights; six (6) 2,536 gpm pumps RAS pump; six (6) 1,156 gpm pumps RAS pumps; three (3) 750 gpm WAS pumps and four (4) 350 gpm scum pumps; eight (8) cloth disk filter units rated for 18 MGD flow; a UV disinfection system rated for 47.3 MGD peak flow consisting of three (3) channels, with two banks per channel; effluent Parshall flume flowmeter; dual 0.108 MG post-aeration basins with four (4) 3,400 gpm self-aspirating jet aeration pumps; effluent composite sampler; dual 4,500 gallon supplemental carbon storage and feed system; dual 20,000 gallon ferric sulfate storage tanks and chemical feed system; dual 6,100 gallon sodium hypochlorite storage tanks and chemical feed system; plant drain pump station #1, consisting of dual 250 gpm pumps; plant drain pump station #2, consisting of dual 915 gpm pumps; effluent (non-potable) plant pump station including three (3) 750 gpm vertical turbine pumps and a hydropneumatic pressure control system; a reclaimed water truck loading station; three (3) 2.25 MW emergency generators; and yard piping and appurtenances, electrical controls, instrumentation, and site work; in conformity with the project plans, specifications, and other supporting data subsequently filed and approved by the Department of Environment and Natural Resources.

Non-Eligible

The following items are deemed non-eligible for Revolving Loan funding:

- Bid Item 1B, Church Road Water Line Extension
- Any costs associated with choosing the Alternate Equipment Items above the base bid costs.

Issuance of this approval letter does not imply availability of funding. Please note that the Clean Water State Revolving Fund (CWSRF) program is now a full priority based system. Part of this program change includes adhering to a schedule for submittal of applications through contracting. This approach should move projects much quicker from an application for funding through contracting. This new schedule is applicable to the subject project. **Therefore, in order to maintain assurance of funding an Authority to Award must be obtained by August 1, 2011 and all contracts must be executed by September 1, 2011.**

If any of these milestones are not met, you must reapply under the new, competitive priority system if you wish to seek SRF funding for this project. The new priority system accepts applications twice per year and projects will be funded based on priority and availability of funds. We encourage you to try to complete these milestones well before the due date to build in contingency time.

In the event that received bids exceed the amount established through the funding offer, and local funds are not adequate to award contract(s), it will be necessary to consider all alternatives including redesign, re-advertising, and rebidding.

Neither the State nor Federal Government, nor any of its departments, agencies or employees is or will be a party to the invitation to bids, addenda, any resulting contracts or contract negotiations/changes.

If the Recipient does not maintain the court-sanctioned schedules which extended the compliance date for complying with the final effluent limits established in the NPDES Permit, then project costs incurred will not be eligible for Revolving Loan payments.

Your project is subject to the one-year performance certification requirements. By this, you are required on the date one year after the completion of construction and initial operation of the subject treatment facilities, to certify, based on your consulting engineer's advisement, whether or not such treatment works meet the design performance, specifications and the permit conditions and effluent limitations.

In accordance with the Federal Regulations, the Recipient is required to assure compliance with the OSHA safety regulations on the subject project. In complying with this regulatory responsibility, the Recipient should, by letter, invite the Bureau Chief, Education Training and Technical Assistance Unit, NC OSHA Division, 1101 Mail Service Center, Raleigh, NC 27699-1101 at (919) 807-2890, to participate in the Preconstruction Conference to assure that proper emphasis is given on understanding and adhering to the OSHA regulations.

It is the responsibility of the Recipient and the Consulting Engineer to insure that the project plan documents are in compliance with Amended N. C. G. S. 133-3 (ratified July 13, 1993). The administrative review and approval of these plans and specifications, and any subsequent addenda or change order, do not imply approval of a restrictive specification for bidding purposes; nor is it an authorization for noncompetitive procurement actions.

Any addenda to be issued for subject project plans and specifications must be submitted by the Recipient such that adequate time is allowed for review/approval action by the State and for subsequent bidder action prior to receipt of bids.

It is mandatory for project facilities to be constructed in accordance with the North Carolina Sedimentation Pollution Control Act, and, when applicable, the North Carolina Dam Safety Act. In addition, the specifications must clearly state what the contractors' responsibilities shall be in complying with these Acts.

Prior to entering into any contract(s) for construction, the recipient must have obtained all applicable project Permits from the State, including an Authorization to Construct and/or Non-Discharge Permit.

Mr. Jamie Revels, P.E., Utilities Director
April 13, 2011
Page Number 4

While rejection of all bids is possible, such action may be taken only with prior State concurrence, and only for good cause.

A goal of 8% of the contract price is established for Minority Business Enterprise (MBE) participation in this project, and a goal of 5% of the contract price is established for Women's Business Enterprise (WBE) participation in this project. The Recipient and Bidders shall make a good-faith effort to assure that MBE's and WBE's are utilized, when possible, as sources of goods and services. The good-faith effort must include the following affirmative steps: (a) including small, minority, and women's businesses on solicitation lists; (b) assuring that small, minority, and women's businesses are solicited whenever they are potential sources; (c) dividing total requirements, when economically feasible, into small tasks or quantities to permit maximum participation by small, minority, and women's businesses; (d) establishing delivery schedules, and (e) using the services of the Small Business Administration and the Minority Business Development Agency of the U.S. Department of Commerce. Please note that the solicitation efforts should include documentable follow-up phone calls.

The Recipient shall comply with the provisions of 40 CFR, Part 7, Subpart C - Discrimination Prohibited on the Basis of Handicap.

Attached is one (1) copy of the Project Bid Information which is to be completed within 21 days after bids have been received, and submitted to the State for review. Upon review and approval of this information, the State will authorize the Recipient to make the proposed award.

Do not proceed with construction until the Authority to Award package and the EEO and MBE documentation/certification have been reviewed, and you are in receipt of our approval, if a CWSRF loan is desired for project construction.

Two (2) copies of any change order must be promptly submitted by the Recipient to the State. If additional information is requested by the State, a response is required within two (2) weeks, or the change order will be returned without further or final action.

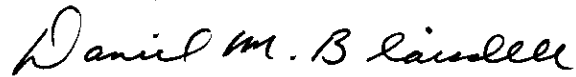
One (1) set of the final approved plans and specifications will be forwarded to you. One (1) set of plans and specifications identical to the approved set must be available at the project site at all times.

Upon completion of the project construction, the Recipient shall submit a letter confirming that the project has been constructed in accordance with the plans and specifications approved by the State. "As-built" plans will need to be submitted with any changes clearly documented on the plans if the above confirmation cannot be made.

Mr. Jamie Revels, P.E., Utilities Director
April 13, 2011
Page Number 5

If there are any questions concerning this matter, please do not hesitate to contact Seth Robertson, P.E. at (919) 715-6206.

Sincerely,



Daniel M. Blaisdell, P.E., Section Chief
Construction Grants & Loans Section

Attachment

kp:sr

cc: Robert Vinay, P.E., ARCADIS, 801 Corporate Center Drive, Suite 300, Raleigh,
NC 27607-5073
Tim Donnelly, Utilities Director, Town of Apex, PO Box 250, Apex, 27502-0250
OSHA Bureau Chief, Wanda Lagoe
DWQ Raleigh Regional Office
Mark Hubbard, P.E.
Ken Pohlig, P.E.
CIG
SRF