



REQUEST FOR BOARD ACTION

ITEM NO. 8.

DATE OF MEETING: February 18, 2014

REQUESTED BY: Michael G. Mack, Utilities Director

SHORT TITLE: Resolution Authorizing Acceptance of the Professional Engineering Services Agreement of W.K. Dickson & Co., Inc. for the Surveying, Civil Engineering, and Permitting of the Relocation of the Hampstead Solid Waste Convenience Site Off Highway 17 and the Relocation of the Truck Scales and Scale House from Transfer Station Road Onto the Adjacent County-Owned Property Along Transfer Station Road in the Not-To-Exceed amount of \$143,700 and the Authorization of a Purchase Order for the contract.

BACKGROUND: Over the last 18 months, PCU has been working to coordinate both the relocation of the Hampstead Solid Waste Convenience Site off Highway 17 for public safety concerns and the Truck Scale and Scale House operations off Transfer Station Road to allow for the private developer of the proposed Hawksbill Cove Subdivision to extend Transfer Station Road through to Country Club Road as required in their Master Plan approval. However, several factors have delayed this effort including, but not limited to awaiting the NCDOT proposed route of the Hampstead ByPass, the NCDOT proposed Hampstead-Highway 17 median project, and the failure of the developer to submit an acceptable relocation plan for the truck scales. Staff and County Attorney Thurman have met with the Hawksbill Cove agent and their attorney and all parties agreed that Pender County will contract for the design, permitting, and construction of both the Convenience Site and Truck Scale relocations to realize an economy of scale for both projects and the developer will provide a proportional share of the total cost for 100% of their truck scale and scale house relocation costs to Pender County.

The Scope of Work is very comprehensive and includes Ten (10) Tasks including the following elements: Boundary and Topographic Surveys, Site Layout, Geotechnical Investigations, Design Development, Permitting, Conditional Rezoning Assistance, Construction Documents, Bidding, and Construction Administration and Inspections.

SPECIFIC ACTION REQUESTED: Authorize acceptance of the Professional Engineering Services Agreement of WK Dickson for the relocation of the Hampstead Solid Waste Convenience Site and Transfer Station Truck Scale/Scale House to an interior portion of the Transfer Station Property and issuance of a Purchase Order to WK Dickson in an amount not to exceed \$143,700.

COUNTY MANAGER'S RECOMMENDATION

Respectfully recommend approval.


Initial

RESOLUTION

NOW, THEREFORE BE IT RESOLVED by the Pender County Board of Commissioners that:

the Professional Engineering Services Agreement of WK Dickson for the relocation of the Hampstead Solid Waste Convenience Site and Transfer Station Truck Scale/Scale House to an interior portion of the Transfer Station Property and issuance of a Purchase Order to WK Dickson in an amount not to exceed \$143,700 is hereby approved and authorized.

75-407400 Capital Outlay \$143,700

The Chairman/County Manager is authorized to execute any document necessary to implement this resolution.

AMENDMENTS:

MOVED _____ SECONDED _____

APPROVED _____ DENIED _____ UNANIMOUS

YEA VOTES: Williams ___ McCoy ___ Tate ___ Ward ___ Brown ___

David Williams, Chairman 02/18/14
Date

ATTEST 02/18/14
Date

ATTACHMENT A

PENDER COUNTY SOLID WASTE CONVENIENCE CENTER AND TRUCK SCALE RELOCATION

SURVEY AND CIVIL ENGINEERING SCOPE OF SERVICES

PROJECT DESCRIPTION / ASSUMPTIONS

The project will include the relocation of the Pender County Solid Waste Convenience Center currently located adjacent to Topsail High School on NC 17 and the relocation of the truck scales for the Pender County Solid Waste Transfer Station currently located on Transfer Station Road to locations within the Transfer Station property.

W. K. Dickson & Co., Inc. (CONSULTANT) will provide surveying and civil engineering services to Pender County (OWNER) in accordance with the project scope and in compliance with current applicable requirements, code, and standards.

TASK ONE – PRELIMINARY LAYOUTS

CONSULTANT will compile and use existing available data including aerial photography, topographic survey, GIS data, wetland delineations, etc. to develop preliminary layouts to be evaluated during the feasibility study. Preliminary layouts will be developed for the following options:

- Relocation of the current capacity of the convenience center facility to the property owned by Pender County on Transfer Station Road. This property is also the current location of the Pender County Solid Waste Transfer Station.
- Relocation of the existing scale facilities for the Solid Waste Transfer Station currently located in the Transfer Station Road right of way to accommodate the realignment of Transfer Station Road proposed by others.
- Siting of a container storage area on the east side of the project site.

Based on the preliminary layout selected by the OWNER, CONSULTANT will schedule and attend scoping meetings with the following regulatory agencies to identify potential regulatory issues for the layout. Representatives from the OWNER will be invited and encouraged to attend the scoping meetings. A written summary of the meetings will be provided to the OWNER.

- North Carolina Department of Transportation (NCDOT)
- NCDENR Land Quality Section
- NCDENR Division of Waste Management
- NCDENR Division of Water Quality
- United States Army Corps of Engineers (USACE)

OWNER will coordinate the review of the preliminary layout with the private developer of the residential subdivision that is requiring the relocation of the scales as well as Waste Industries and provide CONSULTANT with comments or concerns as a result of their reviews.

TASK TWO – PREFERRED LAYOUT

Based on OWNER review and comments of the preliminary layout and information obtained during the scoping meetings with the regulatory agencies, CONSULTANT will refine the preferred site layout. Plan view drawings will be developed to show the general locations of the convenience center elements, truck scale and scale building locations, and roadway alignment. Buffers and setbacks from adjacent properties will be indicated on the plan view drawings. Upon OWNER review and approval of the preferred layout, CONSULTANT will begin the remaining phases of the project.

TASK THREE – TOPOGRAPHIC SURVEY

CONSULTANT will perform a topographic survey of a portion of the property owned by Pender County having PIN # 4203-17-8616-0000 and a physical address of 248 Transfer Station Road with the following understanding:

- The topographic survey will supplement a previous topographic survey prepared by others and provided to CONSULTANT in AutoCAD format by OWNER. OWNER will provide an electronic copy (AutoCAD) and a hard copy of the signed and sealed topographic survey drawing prepared by others.
- The topographic survey will be based on the existing horizontal and vertical control points as shown on the signed and sealed topographic survey drawing prepared by others and provided by the OWNER.
- All visible above ground improvements within the new survey limits will be field located. The contour interval shown will be 1 foot.
- The limits of the area for the topographic survey are shown on the attached sketch entitled "Pender County Solid Waste Facility – Survey Limits."

TASK FOUR – GEOTECHNICAL INVESTIGATIONS

CONSULTANT will perform the following geotechnical engineering services for the project:

- Visit the site to observe site surface conditions and mark proposed boring locations.
- Contact and request North Carolina 811 to mark the locations of existing underground utilities in the proposed exploration areas.
- Mobilize a crew and a power drilling rig mounted on an all-terrain vehicle to the site.
- Clear small trees and brush with hand tools (e.g., chain saws, bush axes) to provide drill rig access to the proposed boring locations.
- Drill one soil test boring to a depth of 20 feet in the proposed scale area; one boring to a depth of 15 feet in the proposed building area; four test borings, each to a depth of 10 feet below existing grade, along the proposed access road alignment; and two borings to a depth of 10 feet in the proposed container storage area. The approximate locations of the borings are shown on Figure 1 Boring Locations. The borings will include split-barrel soil sampling at 2.5 to 5-foot intervals. The sampler will be driven in general accordance with the Standard Penetration Test procedures (ASTM D 1586). Two bulk samples of auger cuttings will be obtained for laboratory testing. The borings will be terminated at depths shallower than those proposed if refusal to drilling equipment is encountered.
- Core existing pavement at two locations to determine pavement overlay requirements.

- Visually-manually classify the soil samples in general accordance with the Unified Soil Classification System.
- Perform laboratory testing consisting of grain-size analysis, Atterberg Limits, and moisture content tests on representative soil samples to confirm visual soil classifications and estimate the engineering properties of the soils tested. Additional laboratory testing will include one standard Proctor compaction test and one California Bearing Ratio (CBR) test.
- Perform geotechnical engineering analysis to estimate soil properties and develop geotechnical recommendations.
- Prepare a geotechnical engineering report summarizing the field testing procedures, describing the subsurface conditions at the site, and providing geotechnical recommendations. The recommendations will address seismic site classification, site preparation, earthwork, foundations, floor slab support, and pavements. The report will be signed and sealed by a professional engineer specializing in geotechnical engineering.
- Evaluate the seasonal high water table (SHWT) at two locations. A hand auger boring will extend to a depth of 8 feet below existing ground surface or until seasonally high soil wetness conditions are encountered (whichever is first encountered) as determined by, or under the guidance of, a Licensed Soil Scientist.
- Conduct an in-situ soil hydraulic conductivity test at two locations. The test will be performed at a depth of approximately 2 feet above the seasonal high water table, unless directed otherwise by the stormwater management feature designer. However, the test will need to be performed in an area where the water table is at least 18 to 24 inches below the ground surface. If the selected test location does not meet these requirements, the test location may need to be offset.
- Coordinate an on-site meeting with NCDENR personnel for the purposes of verifying the seasonal high water table depth at each of the test locations.
- Incorporate the results of the SHWT and infiltration tests into the geotechnical report or an addendum to the geotechnical report.

TASK FIVE – DESIGN DEVELOPMENT (60%)

CONSULTANT will develop approximately 60% construction documents for the relocation of the convenience center and existing truck scale based on the preferred layout developed in Task Two and the topographic survey and geotechnical data obtained in Tasks Three and Four. The access roadway to the truck scale will be located along the west and south property lines of the Solid Waste Transfer Station property from Transfer Station Road to a connection on the south side of the existing transfer station facility. A fence and landscaped buffer will be provided between the proposed roadway and scales and the residential property to the south of the project site. The truck scales and scale building will be sited to maximize separation between the residential property and the scales without compromising the operations of the facility or impacting wetlands.

In lieu of purchasing new truck scales, the existing truck scales will be relocated from their current location to the proposed location. CONSULTANT will prepare construction documents for the new truck scale foundation. The foundation will be designed to accommodate a WB-50 design vehicle. The design of the scale foundation will be coordinated by CONSULTANT with American Scales, the supplier of the truck scales.

OWNER will provide CONSULTANT will contact information for a representative of the scale supplier.

The scale building will be a new single wide mobile home structure. The mobile home will be pre-engineered and no mechanical, electrical, or plumbing drawings will be prepared by the CONSULTANT for the building. OWNER will coordinate and permit the utility extensions to the new building. CONSULTANT will prepare construction documents for the foundation for the new mobile home structure and will coordinate the foundation design with the supplier of the mobile home. OWNER will provide contact information to the CONSULTANT for a representative of the mobile home supplier.

It is anticipated that a low density state stormwater permit will be required for the project as the proposed impervious surface area is relatively small in relation to the overall property area and is being distributed throughout the existing upland areas and not concentrated in one location. The determination of whether the project will be classified as low density or high density will ultimately be decided by NCDENR Land Quality Section staff. This scope of work includes development of low density facilities, vegetative swales, for stormwater management. If it is determined during scoping meetings with NCDENR that the project will result in a "pocket" of high density and BMP facilities are required beyond vegetative swales, additional services will be requested for the design and permitting of the BMP facilities.

The OWNER intends to provide roadway lighting for the portion of the roadway from Transfer Station Road to the convenience center and site lighting within the convenience center. No lighting is proposed for the portion of the roadway beyond the convenience center or for the truck scale area. An exterior light will be located at the scale building, but power for the exterior light will be provided from within the scale building. The OWNER will lease the roadway and convenience center lighting from Duke Energy and Duke Energy will design the layout for the proposed lighting. CONSULTANT will provide design drawings for Duke Energy's use in designing the proposed lighting and will coordinate with Duke Energy to avoid conflicts between the proposed lighting and other site elements.

The construction documents will be prepared such that the truck scale relocation and associated scale building and roadway can be bid and constructed separately from the relocation of the convenience center facility. The truck scale relocation and roadway work will be identified as Phase A and the convenience center facility work will be identified as Phase B on the construction documents.

It is anticipated that the following plan sheets will be developed for the construction documents:

- Cover Sheet
- Index, General Notes, and Legend
- Geotechnical Boring Data Sheet
- Existing Conditions & Demolition Plan
- Roadway and Pavement Typical Sections
- Roadway Plan and Profile
- Roadway Drainage and Erosion Control Plan
- Roadway Cross Sections
- Convenience Center Site Layout Plan

- Convenience Center Grading, Drainage, and Erosion Control Plan
- Truck Scale and Scale Building Site Layout Plan
- Truck Scale and Scale Building Grading, Drainage, and Erosion Control Plan
- Truck Scale Foundation Plan
- Landscape Plan
- Miscellaneous Detail Sheets

CONSULTANT will prepare an Opinion of Probable Construction Costs for the work included in the project plans.

CONSULTANT will prepare Technical Specifications for the work included in the project plans at the Design Development phase of the project.

TASK SIX – PERMITTING

CONSULTANT will prepare and submit permit applications and supporting documents for the project based on the project plans prepared in Task Five. CONSULTANT will respond to regulatory agency comments and provide resubmittal documents to address regulatory agency comments. It is anticipated that the following permits will be required for the project.

- NCDENR and USACE Preconstruction Notification
- NCDENR Low Density Stormwater Permit
- NCDENR Erosion Control Permit
- NCDENR Division of Waste Management
- NCDOT Driveway Permit

Based on the wetland delineation mapping provided by the County, it is anticipated that there will be wetland impacts associated with the relocation of the convenience center while the relocation of the truck scales, scale building, and associated roadway work could be accommodated without wetland impacts. In order to accelerate the construction of the truck scale relocation portion of the project, it may be necessary to permit the phases of work separately. If the two phases of work can be permitted with the preparation and submittal of a Preconstruction Notification to satisfy the requirements of both the NCDENR DWQ and the USACE, the two phases of work will be submitted for permitting concurrently. If including the convenience center work will require the preparation and submittal of a USACE Individual Permit or Wetland Mitigation, only the Phase A work will be submitted with the initial permit submittals. Preparation and submittal of concurrent permit application packages for Phases A and B are included this scope of services. If coordination with NCDENR or USACE staff indicates that an Individual Permit or Wetland Mitigation will be required for the Phase B work, only the Phase A work will be permitted under this scope of services and additional services will be requested for the scope of work associated with preparation and submittal of the Phase B permit documents.

This scope of services includes preparation of a Preconstruction Notification for wetland impacts. If an Individual Permit or Wetland Mitigation is required, additional services will be requested for preparation of the application permit applications, documents, and drawings.

This scope of services includes preparation of a low density state stormwater permit due to the relatively low amount of impervious surface in relation to the overall property area. If NCDENR determines that a high density state stormwater permit is required for the project, CONSULTANT will provide a scope and fee proposal for approval by the OWNER prior to performing the additional effort required for the high density permit.

Pender County building and utility permits required for the construction of the scale building and associated utility connections will be addressed by the owner and are not included in this scope of work.

All permit application fees will be paid by the OWNER.

TASK SEVEN – CONDITIONAL REZONING ASSISTANCE

CONSULTANT will prepare and provide a generalized site development plan for the OWNER's use in pursuing a rezoning of the property to O&I to accommodate the relocation of the convenience center to the transfer station property. The following items are required by the Pender County Conditional (Zoning Map) Amendment Checklist and will be included on the Conditional Rezoning Plan.

- Vicinity Map
- A (metes and bound) boundary of the parcel. CONSULTANT will provide current deed information including a metes and bounds description of the property for this item. Preparation of a boundary survey is not included in the scope of work.
- All existing easements, reservations, and rights of way.
- Delineation of all Areas of Environmental Concern including, but not limited to federal jurisdictional wetlands.
- The height, approximate footprint, and location of all structures.
- Traffic impact report. The traffic impact report is limited to compiling the available traffic count data for the convenience center and transfer station that has previously been acquired by Pender County as well as available NCDOT traffic data. CONSULTANT will prepare a document evaluating the impact of relocating the convenience center traffic to the intersection of Transfer Station Road and US 17 during the AM and PM peak hours. The scope of work does not include conducting traffic counts, trip generation, or preparation of a traffic impact analysis.
- Parking and circulation plans illustrating dimensions, intersections, and typical cross sections.
- Proposed setbacks, buffers, screening, and landscaping.
- Project phasing.
- Signage.
- Outdoor lighting.
- Current zoning district designation and current land use status.
- Landscape plan.

The OWNER will address the remaining rezoning application elements and activities including the public hearing and attendance at Pender County board meetings.

TASK EIGHT – CONSTRUCTION DOCUMENTS (95% and 100%)

Upon receipt of regulatory agency comments regarding the permit submittals and OWNER review comments from the Design Development (60%) submittal, CONSULTANT will finalize the plan sheets prepared in the Design Development phase.

CONSULTANT will update the Opinion of Probable Construction Costs.

CONSULTANT will prepare final technical specifications, contract agreement, and general and supplemental conditions using CONSULTANT's standard front end documents.

CONSULTANT will submit the construction documents to the OWNER at 95% completion for final review and comment by the OWNER. Upon receipt of OWNER comments from the 95% submittal, CONSULTANT will prepare the final construction documents and provide signed and sealed plans, specifications, and Opinion of Probable Construction Costs to the OWNER.

TASK NINE - BIDDING

The scope of services for bidding is based on Phase A (scale relocation, scale building, and roadway work) and Phase B (convenience center relocation) being advertised separately for construction. CONSULTANT will perform the following services related to bidding and project award for each of the two anticipated construction contracts.

- Coordinate bid letting date, time, and location with OWNER and prepare final Invitation to Bid.
- Prepare Bid Form.
- Place advertisements for Invitation to Bid. OWNER will pay advertising costs.
- Prepare and provide bid sets to bidders and suppliers who provide payment for bid documents and maintain a record of prospective bidders to whom bid documents have been issued.
- Interpret construction contract documents and provide written responses to questions from bidders requiring clarification during the bidding period. Prepare addenda to the construction contract documents when required.
- Conduct bid opening. Answer questions during bid opening; make preliminary tabulation of bids, and review questionnaires and bids for completeness.
- Review and evaluate the qualifications of the apparent successful bidder and the proposed major or specialty subcontractors.
- Prepare and distribute formal bid tabulation sheets, evaluate bids, make written recommendations to the OWNER concerning contract award, and prepare recommendation of award letter.

TASK TEN – CONSTRUCTION ADMINISTRATION

The scope of services for Construction Administration is based on Phase A (scale relocation, scale building, and roadway work) and Phase B (convenience center relocation) being awarded separately for construction. CONSULTANT will perform the following services related to construction administration for each of the two construction contracts.

- Issue Notice to Proceed to successful Contractor. Prepare and distribute conforming copies of construction contract documents.

- Prepare and distribute copies of the construction contract documents. These services will include furnishing the Contractor unsigned construction contract documents, review of Contractor bonds and insurance certificates, and transmitting the construction contract documents to OWNER for acceptance by the OWNER's legal counsel, signature, and final distribution to the Contractor. CONSULTANT's review of the insurance certificates is only for the purpose of determining if the Contractor maintains the general types and amounts of insurance required by the contract documents, and is not a legal review to determine if the Contractor's insurance coverage complies with all applicable requirements.
- OWNER'S instructions to the Contractor shall be issued through the CONSULTANT who shall have the authority to act on behalf of OWNER in dealings with Contractor to the extent provided in this Contract for Services and Construction Contract Standard General Conditions.
- Organize and facilitate a Pre-construction Conference and record minutes for distribution to attendees, OWNER, Contractor, and applicable regulatory contacts.
- Review and approve or take other appropriate action with respect to Shop Drawings, samples, and other data which Contractor is required to submit, but only for conformance with the design concept of the project and compliance with the information given in the Contract Documents. Such reviews or other action shall not include means, methods, techniques, sequences, or procedures of construction or safety programs and precautions incident thereto.
- Conduct monthly progress meetings and weekly site visits to observe as an experienced and qualified design professional the progress and quality of the Work and to determine in general if the Work is proceeding in accordance with the Contract Documents. However, CONSULTANT's inspections shall not be intended to involve work beyond the responsibility specifically assigned to CONSULTANT in this Contract for Services and the Contract Documents. On the basis of on-site inspections, CONSULTANT shall keep the OWNER informed of the progress and quality of the Work by written report, and shall alert the OWNER to apparent defects and deficiencies in the Work of the Contractor. CONSULTANT shall issue meeting minutes for each progress meeting. CONSULTANT has budgeted for three (3) progress meetings and twelve (12) site visits for each of the construction contracts.
- Make recommendations to OWNER concerning the disapproval or rejection of Contractors' Work while it is in progress if CONSULTANT believes that such Work does not produce a completed Project that conforms to the Contract Documents or that it will prejudice the integrity of the design concept of the Project as reflected in the Contract Documents. CONSULTANT shall have access to the Work at all times wherever it is in preparation or progress.
- CONSULTANT shall issue necessary clarifications and interpretations of the Contract Documents appropriate to the orderly completion of the Work. Such clarifications and interpretations will be consistent with the intent of and reasonably inferable from the Contract Documents. CONSULTANT may issue Field Orders authorizing minor variations from the requirements of the Contract Documents. Field Orders shall not involve change in Contract Price or Time.
- Act as initial interpreter of the requirements of the Contract Documents, judge the acceptability of the Work and make decisions on all claims of the OWNER and Contractor relating the acceptability of the Work or the interpretation of the requirements of the Contract Documents pertaining to the execution and progress

of the Work. In rendering such decisions, the CONSULTANT shall be fair and not show partiality to OWNER or Contractor and not be liable for the results of any such interpretations or decisions rendered in good faith.

- Determine the amount owed to the Contractor based on CONSULTANT's and OWNER's observations and inspections at the site and the data comprising the Application for Payment, and the accompanying data and schedules, and recommend in writing payments to Contractor in such amounts. Such recommendations of payment will constitute a representation to the OWNER that the Work has progressed to the point indicated and that, to the best of CONSULTANT's and OWNER's representative knowledge, information and belief, the quality of the Work is in accordance with the Contract Documents. The issuance of a recommendation will further constitute a representation that the Contractor is entitled to payment in the amount certified. However, the issuance of a recommendation for payment will not be a representation that the CONSULTANT is responsible for construction means, methods, techniques, sequences, or procedures or has ascertained how or for what purpose the Contractor has used money previously paid on account of the Contract Price. CONSULTANT has budgeted for review of three (3) payment applications per contract, one being the final adjusting payment.
- Recommend Change Orders and Work Change Directives to OWNER as appropriate, and the CONSULTANT shall prepare Change Orders and Work Change Directives as required. CONSULTANT shall not issue such Change Orders and Work Change Directives until OWNER has approved and accepted Contractor's cost and schedule change to implement such Change Orders and Work Change Directives.
- Following notice from Contractor that Contractor considers the entire work ready for its intended use, the CONSULTANT and the OWNER, accompanied by Contractor, shall conduct a one day inspection to determine if the work is substantially and satisfactorily complete. If the work is determined by CONSULTANT to be substantially complete, CONSULTANT shall provide a notice of substantial completion to OWNER and Contractor. If work is not deemed satisfactory, CONSULTANT shall provide in writing a list of deficiencies to be corrected before the work can be deemed Substantially Complete. CONSULTANT shall re-inspect the work when the Contractor provides in writing a statement that all deficiencies have been corrected.
- Determine if the completed Work is acceptable to OWNER so that CONSULTANT may recommend, in writing, final payment to Contractor and may give written notice to OWNER and Contractor that the Work is acceptable. Accompanying the recommendation for final payment, CONSULTANT shall indicate that the work is acceptable to the best of CONSULTANT's knowledge, information and belief and based on the extent of the services performed and furnished by CONSULTANT and OWNER under this Agreement. After determining that the completed Work is acceptable, issue a written Notice of Acceptance to the Contractor. Notice shall establish the completion date.
- Receive, review, and approve Contractor's final payment request. Prepare a final adjusting change order to be signed by the Contractor and submitted to the OWNER with the final pay request.
- Following construction and acceptance, the CONSULTANT shall submit to the OWNER and to NCDENR, one copy of a certificate of completion to indicate that construction was performed in substantial accordance with the approved

- construction documents and the appropriate regulations.
- Prepare a "Record Drawing" of completed project, as obtained from Contractor's records of changes made during construction.

PROJECT SCHEDULE

CONSULTANT will perform project tasks in accordance with the following schedule.

| <u>Task and Description</u> | <u>Duration for Completion</u> |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Task One – Preliminary Layouts | Preliminary layouts have been prepared by CONSULTANT and OWNER has selected a Preliminary Layout |
| Task One – Scoping Meetings | 2 Weeks from Notice to Proceed (Depending on Regulatory Agency Staff Availability) |
| Task Two – Preferred Layout | 3 Weeks from Notice to Proceed |
| Task Three – Topographic Survey | 6 Weeks from Notice to Proceed |
| Task Four – Geotechnical Investigations | 7 Weeks from Notice to Proceed |
| Task Five – Design Development (60%) | 10 Weeks from Notice to Proceed |
| Task Six – Permit Submittals | 12 Weeks from Notice to Proceed |
| Task Seven – Conditional Rezoning Plan | 12 Weeks from Notice to Proceed |
| Task Eight – Phase A Construction Documents (95%) | 2 Weeks from Receipt of Permits and OWNER 60% Review Comments |
| Task Eight – Phase A Construction Documents (100%) | 2 Weeks from Receipt of OWNER 95% Review Comments |
| Task Eight – Phase B Construction Documents (95%) | 2 Weeks from Receipt of Permits / Approval of Conditional Rezoning / OWNER 60% Review Comments |
| Task Eight – Phase B Construction Documents (100%) | 2 Weeks from Receipt of OWNER 95% Review Comments |
| Task Nine – Phase A / Phase B Bidding | Upon Authorization from OWNER |
| Task Ten – Phase A / Phase B Construction Administration | In Accordance with Construction Schedule |

EXCLUSIONS

The following items are not included in the scope of work:

- Boundary survey.
- Establishment of horizontal and vertical control points.
- Design and permitting of stormwater management treatment systems beyond those required for a low density stormwater permit.
- Permit documents and submittal packages for permits other than those identified.
- Coordination with private developer of residential subdivision requiring the relocation of the truck scales.
- Coordination with Waste Industries.
- Direct measurement of shear wave velocities of the subsurface materials at the site via geophysical methods, such as downhole seismic CPT testing or Multi-Channel Analysis of Surface Wave Velocities (MASW).
- Site Specific Seismic Response Analysis (required by Building Code if Seismic Site Class is F, and natural period of structure is greater than 0.5 second).
- Environmental site assessment. The assessment of site environmental conditions or testing for the presence of contaminants in the soil, rock, surface water, or groundwater of the site is beyond the proposed scope of services.
- Geotechnical monitoring of construction, special inspections, or testing of construction materials.
- Retaining wall design other than modular block walls.
- Offsite utility or transportation improvements.
- Full-time construction observation.

ATTACHMENT B

PENDER COUNTY SOLID WASTE CONVENIENCE CENTER
AND TRUCK SCALE RELOCATION

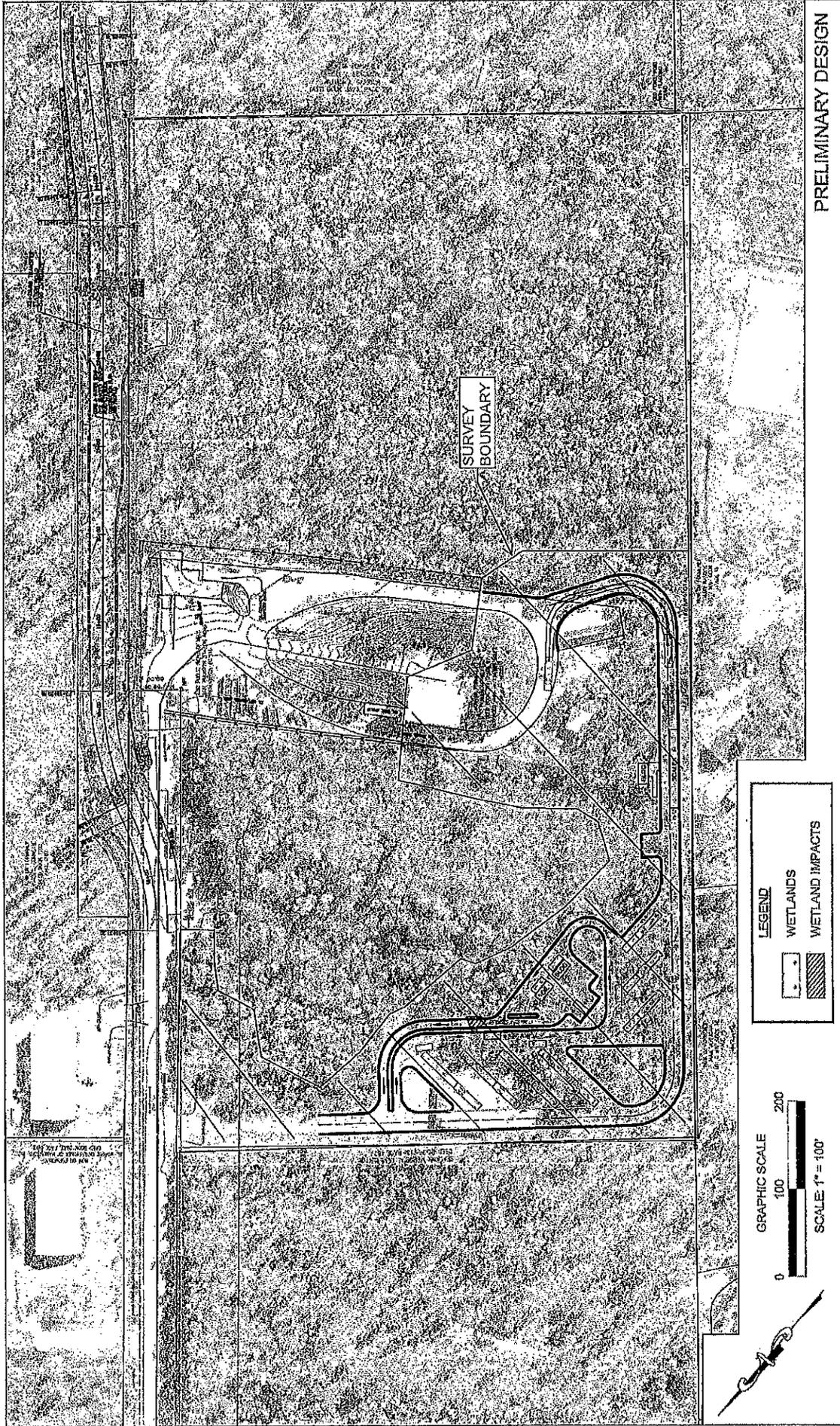
SURVEY AND CIVIL ENGINEERING
BASIS OF COMPENSATION

1. Basic Services. The OWNER shall pay the CONSULTANT for services set forth in Attachment A, Scope of Services, a lump sum fee of One Hundred Forty Three Thousand Seven Hundred Dollars and No Cents (\$143,700).

A percentage of the Lump Sum Fee will be billed on the last day of each month. The percentage billed will be the percentage of work estimated to be completed as of the day of billing.

All permit fees will be paid by the OWNER.

2. Additional Services. The OWNER shall pay the CONSULTANT for additional services, which are not specifically called for in Attachment A, Scope of Services, in accordance with the CONSULTANT's standard rates.



PRELIMINARY DESIGN

SURVEY LIMITS

LEGEND

-  WETLANDS
-  WETLAND IMPACTS

GRAPHIC SCALE

0 100 200



SCALE: 1" = 100'

**PENDER COUNTY
SOLID WASTE FACILITY**

DATE: 04/24/03
 SCALE: 1"=100'
 DRAWN: JGR
 CHECK: JED
 PROJ. NO.: 20120096.00.WL

WK DICKSON
 community infrastructure consultants