



## **PURCHASING DIVISION**

**November 26, 2018**

**TO: All Bidders**

### **ADDENDUM NO. 2**

#### **Durham County Judicial Building Annex Renovations (IFB 19-015)**

This **ADDENDUM No.2** forms part of Durham County's Invitation for Bids (IFB 19-015) – Durham County Judicial Building Annex Renovations. All other requirements of the original Specifications remain in effect in their respective order. Receipt of this Addendum must be acknowledged on the Bid Form included in the original bid document.

1. Attached is additional information/clarifications regarding this project.

Should you have any questions regarding this Addendum, please give us a call.

Sincerely,

***Hilda W. Williams***

***RND Architects***

Tel. No. 919.490.1266

Hilda W. Williams  
Senior Procurement Specialist  
919.560.0054

**Durham County North Carolina  
Durham County Judicial Annex Building Renovations**

**RND 1721**

**ADDENDUM 2**

Issued November 26, 2018

Modifications to contract documents for this project shall be made as follows:

GENERAL NOTE: The Contract Documents include all Drawings and Specifications, plus any Addenda. The Drawings and the Specifications are complimentary and are to be taken together for a complete interpretation of the Work. Contractors shall review a complete set of Contract Documents prior to bidding the work.

PROJECT MANUAL

1. Reference INSTRUCTIONS TO BIDDERS: At 0002-Instructions to Bidders, page 8, **REPLACE “3. No material substitutions will be accepted.”** With the following text (as stated in the Pre-Bid Meeting Minutes):

**“3. Material substitutions will be considered during the bidding phase until 3:00 P.M., on November 26, 2018. No substitutions will be considered after that time and date.**

**For proposed material substitutions submit the following information directly to the Architect: (Glenn Parks, AIA, glenn@RNDpa.com, and Suite 204, 3608 University Drive, Durham, NC 27707.**

Name of manufacturer

Address of manufacturer

Phone number of manufacturer

Trade name

Model or catalogue designation

Manufacturer’s date including:

Performance and test data

Reference standards

Detailed comparison with specified product including:

Performance

Test results

Warranties

Gauge, thickness or strength of material finish

Other pertinent data

Other information requested by the Project Manager

If a material substitution is accepted by the Project Manager and Owner, Contractors will be notified by an Addendum.

2. Reference Section 017419 - CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL: **Replace** entire section with attached Section 017419 - CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL. (See attached file "017419 - CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL\_ADDENDUM02.pdf")
3. Reference Section 142400-HYDRAULIC ELEVATORS, paragraph 1.01 MANUFACTURER: **Replace** with the following text:

" 1.01 MANUFACTURER

- A. It is the intent of this specification to prohibit the installation of any proprietary equipment as part of the work.
- B. The following elevator controls are accepted as equals.

Controls:

1. Motion Controls
2. GAL Controls
3. Smart Rise
4. Virginia
5. Vertical Express

Products not listed are required to be pre – approved prior to the bid. Substitutions shall be submitted in accordance with the General Conditions of the Contract.

In the interest of unified responsibility, the elevator contractor shall be one regularly engaged in the business of installing and servicing elevators of the type and character required by these specifications."

End of Addendum No. 2.



## SECTION 017419 - CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

#### 1.2 SUMMARY

- A. Section includes administrative and procedural requirements for the following:
  - 1. Development and implementation of a construction and demolition waste management plan per MR PreRequisite LEED v4 for Interior Design and Construction.

#### 1.3 DEFINITIONS

- A. Construction Waste: Building, structure, and site improvement materials and other solid waste resulting from construction, remodeling, renovation, or repair operations. Construction waste includes packaging.
- B. Demolition Waste: Building, structure, and site improvement materials resulting from demolition operations.
- C. Disposal: Removal of demolition or construction waste and subsequent salvage, sale, recycling, or deposit in landfill, incinerator acceptable to authorities having jurisdiction, or designated spoil areas on Owner's property.
- D. Recycle: Recovery of demolition or construction waste for subsequent processing in preparation for reuse.

#### 1.4 MATERIALS OWNERSHIP

- A. Unless otherwise indicated, demolition and construction waste becomes property of Contractor.
- B. Historic items, relics, antiques, and similar objects including, but not limited to, cornerstones and their contents, commemorative plaques and tablets, and other items of interest or value to Owner that may be uncovered during demolition remain the property of Owner.
  - 1. Carefully salvage in a manner to prevent damage and promptly return to Owner.

1.5 ACTION SUBMITTALS

- A. Waste Management Plan: Submit plan within 30 days of date established for the Notice to Proceed.

1.6 INFORMATIONAL SUBMITTALS

- A. Waste Reduction Progress Reports: Concurrent with each Application for Payment, submit report. Use Form CWM-7 for construction waste and Form CWM-8 for demolition waste. Include the following information:
  - 1. Material category.
  - 2. Generation point of waste.
  - 3. Total quantity of waste in tons.
  - 4. Quantity of waste salvaged, both estimated and actual in tons.
  - 5. Quantity of waste recycled, both estimated and actual in tons.
  - 6. Total quantity of waste recovered (salvaged plus recycled) in tons.
  - 7. Total quantity of waste recovered (salvaged plus recycled) as a percentage of total waste.
- B. Waste Reduction Calculations: Before request for Substantial Completion, submit calculated end-of-Project rates for salvage, recycling, and disposal as a percentage of total waste generated by the Work.
- C. Records of Donations: Indicate receipt and acceptance of salvageable waste donated to individuals and organizations. Indicate whether organization is tax exempt.
- D. Recycling and Processing Facility Records: Indicate receipt and acceptance of recyclable waste by recycling and processing facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoices.
- E. Landfill and Incinerator Disposal Records: Indicate receipt and acceptance of waste by landfills and incinerator facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoices.
- F. LEED Submittal: Submit documentation to USGBC, signed by Contractor, tabulating total waste material, quantities diverted and means by which it is diverted, and statement that requirements for the credit have been met. Respond to questions and requests from USGBC regarding construction waste management and disposal until the USGBC has made its determination on the project's LEED certification application. Document correspondence with USGBC as informational submittals.
- G. Qualification Data: For waste management coordinator and refrigerant recovery technician.
- H. Statement of Refrigerant Recovery: Signed by refrigerant recovery technician responsible for recovering refrigerant, stating that all refrigerant that was present was recovered and that recovery was performed according to EPA regulations. Include name and address of technician and date refrigerant was recovered.
- I. Refrigerant Recovery: Comply with requirements in Section 024119 "Selective Demolition" for refrigerant recovery submittals.

## 1.7 QUALITY ASSURANCE

- A. Waste Management Coordinator Qualifications: Experienced firm, or individual employed and assigned by General Contractor, with a record of successful waste management coordination of projects with similar requirements. Superintendent may serve as Waste Management Coordinator.
- B. Refrigerant Recovery Technician Qualifications: Type II or Universal certified by EPA-approved certification program.

## 1.8 WASTE MANAGEMENT PLAN

- A. General: Develop a waste management plan according to requirements in this Section. Plan shall consist of waste identification, waste reduction work plan, and cost/revenue analysis. Distinguish between demolition and construction waste. Indicate quantities by weight or volume, but use same units of measure throughout waste management plan.
  - 1. Establish waste diversion goals for the project by identifying at least five materials (both structural and nonstructural) targeted for diversion. Approximate a percentage of the overall project waste that these materials represent.
  - 2. Specify whether materials will be separated or comingled and describe the diversion strategies planned for the project. Describe where the material will be taken and how the recycling facility will process the material.
  - 3. Alternative daily cover (ADC) does not qualify as material diverted from disposal. Include materials destined for ADC in the calculations as waste.
- B. Reporting: Provide a final report detailing all major waste streams generated, including disposal and diversion rates

## PART 2 - PRODUCTS

### 2.1 PERFORMANCE REQUIREMENTS

- A. General: Achieve targeted waste diversion goals established for the project. Practice efficient waste management in the use of materials in the course of the Work. Use all reasonable means to divert construction and demolition waste from landfills and incinerators. Facilitate recycling and salvage of materials.

## PART 3 - EXECUTION

### 3.1 PLAN IMPLEMENTATION

- A. General: Implement approved waste management plan. Provide handling, containers, storage, signage, transportation, and other items as required to implement waste management plan during the entire duration of the Contract.

- B. Waste Management Coordinator: Engage a waste management coordinator to be responsible for implementing, monitoring, and reporting status of waste management work plan.
- C. Training: Train workers, subcontractors, and suppliers on proper waste management procedures, as appropriate for the Work.
  - 1. Distribute waste management plan to everyone concerned within three days of submittal return.
  - 2. Distribute waste management plan to entities when they first begin work on-site. Review plan procedures and locations established for salvage, recycling, and disposal.

### 3.2 RECYCLING DEMOLITION AND CONSTRUCTION WASTE, GENERAL

- A. General: Recycle paper and beverage containers used by on-site workers.
- B. Recycling Incentives: Revenues, savings, rebates, tax credits, and other incentives received for recycling waste materials shall accrue to Contractor.
- C. Preparation of Waste: Prepare and maintain recyclable waste materials according to recycling or reuse facility requirements. Maintain materials free of dirt, adhesives, solvents, petroleum contamination, and other substances deleterious to the recycling process.
- D. Procedures: Separate recyclable waste from other waste materials, trash, and debris. Separate recyclable waste by type at Project site to the maximum extent practical according to approved construction waste management plan.
  - 1. Provide appropriately marked containers or bins for controlling recyclable waste until removed from Project site. Include list of acceptable and unacceptable materials at each container and bin.
    - a. Inspect containers and bins for contamination and remove contaminated materials if found.
  - 2. Stockpile processed materials on-site without intermixing with other materials. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.
  - 3. Stockpile materials away from construction area. Do not store within drip line of remaining trees.
  - 4. Store components off the ground and protect from the weather.
  - 5. Remove recyclable waste from Owner's property and transport to recycling receiver or processor as often as required to prevent overfilling bins.

### 3.3 RECYCLING CONSTRUCTION WASTE

- A. Packaging:
  - 1. Cardboard and Boxes: Break down packaging into flat sheets. Bundle and store in a dry location.
  - 2. Polystyrene Packaging: Separate and bag materials.

3. Pallets: As much as possible, require deliveries using pallets to remove pallets from Project site. For pallets that remain on-site, break down pallets into component wood pieces and comply with requirements for recycling wood.
4. Crates: Break down crates into component wood pieces and comply with requirements for recycling wood.

### 3.4 DISPOSAL OF WASTE

- A. General: Except for items or materials to be salvaged or recycled, remove waste materials from Project site and legally dispose of them in a landfill or incinerator acceptable to authorities having jurisdiction.
  1. Except as otherwise specified, do not allow waste materials that are to be disposed of accumulate on-site.
  2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
- B. General: Except for items or materials to be salvaged or recycled, remove waste materials and legally dispose of at designated spoil areas on Owner's property.
- C. Burning: Do not burn waste materials.

### 3.5 ATTACHMENTS

- A. Form CWM-1 for construction waste identification.
- B. Form CWM-2 for demolition waste identification.
- C. Form CWM-3 for construction waste reduction work plan.
- D. Form CWM-4 for demolition waste reduction work plan.
- E. Form CWM-5 for cost/revenue analysis of construction waste reduction work plan.
- F. Form CWM-6 for cost/revenue analysis of demolition waste reduction work plan.
- G. Form CWM-7 for construction waste reduction progress report.
- H. Form CWM-8 for demolition waste reduction progress report.

END OF SECTION 017419



Project Name: \_\_\_\_\_  
 Project #: \_\_\_\_\_

Date: \_\_\_\_\_

| FORM CWM-1: CONSTRUCTION WASTE IDENTIFICATION |                  |  |                    |   |                     |                           |                         |
|---|------------------|--|--------------------|---|---------------------|---------------------------|-------------------------|
| MATERIAL CATEGORY                             | GENERATION POINT | EST. QUANTITY OF MATERIALS RECEIVED* (A) | EST. WASTE - % (B) | TOTAL EST. QUANTITY OF WASTE* (C = A X B) | EST. VOLUME CY (CM) | EST. WEIGHT TONS (TONNES) | REMARKS AND ASSUMPTIONS |
| Packaging: Cardboard                          |                  |  |                    |   |                     |                           |                         |
| Packaging: Boxes                              |                  |  |                    |   |                     |                           |                         |
| Packaging: Plastic Sheet or Film              |                  |  |                    |   |                     |                           |                         |
| Packaging: Polystyrene                        |                  |  |                    |   |                     |                           |                         |
| Packaging: Pallets or Skids                   |                  |  |                    |   |                     |                           |                         |
| Packaging: Crates                             |                  |  |                    |   |                     |                           |                         |
| Packaging: Paint Cans                         |                  |  |                    |   |                     |                           |                         |
| Packaging: Plastic Pails                      |                  |  |                    |   |                     |                           |                         |
| Site-Clearing Waste                           |                  |  |                    |   |                     |                           |                         |
| Masonry or CMU                                |                  |  |                    |   |                     |                           |                         |
| Lumber: Cut-Offs                              |                  |  |                    |   |                     |                           |                         |
| Lumber: Warped Pieces                         |                  |  |                    |   |                     |                           |                         |
| Plywood or OSB (scraps)                       |                  |  |                    |   |                     |                           |                         |
| Wood Forms                                    |                  |  |                    |   |                     |                           |                         |
| Wood Waste Chutes                             |                  |  |                    |   |                     |                           |                         |
| Wood Trim (cut-offs)                          |                  |  |                    |   |                     |                           |                         |
| Metals  |                  |  |                    |   |                     |                           |                         |
| Insulation                                    |                  |  |                    |   |                     |                           |                         |
| Roofing                                       |                  |  |                    |   |                     |                           |                         |
| Joint Sealant Tubes                           |                  |  |                    |   |                     |                           |                         |
| Gypsum Board (scraps)                         |                  |  |                    |   |                     |                           |                         |
| Carpet and Pad (scraps)                       |                  |  |                    |   |                     |                           |                         |
| Piping  |                  |  |                    |   |                     |                           |                         |
| Electrical Conduit                            |                  |  |                    |   |                     |                           |                         |
| Other:  |                  |  |                    |   |                     |                           |                         |

\* Insert units of measure.

Project Name: \_\_\_\_\_  
 Project #: \_\_\_\_\_

Date: \_\_\_\_\_

| FORM CWM-2: DEMOLITION WASTE IDENTIFICATION |               |                        |                              |                         |
|---|---------------|------------------------|------------------------------|-------------------------|
| MATERIAL DESCRIPTION                        | EST. QUANTITY | EST. VOLUME<br>CY (CM) | EST. WEIGHT<br>TONS (TONNES) | REMARKS AND ASSUMPTIONS |
| Asphaltic Concrete Paving                   |               |                        |                              |                         |
| Concrete                                    |               |                        |                              |                         |
| Brick                                       |               |                        |                              |                         |
| CMU   |               |                        |                              |                         |
| Lumber                                      |               |                        |                              |                         |
| Plywood and OSB                             |               |                        |                              |                         |
| Wood Paneling                               |               |                        |                              |                         |
| Wood Trim                                   |               |                        |                              |                         |
| Miscellaneous Metals                        |               |                        |                              |                         |
| Structural Steel                            |               |                        |                              |                         |
| Rough Hardware                              |               |                        |                              |                         |
| Insulation                                  |               |                        |                              |                         |
| Roofing                                     |               |                        |                              |                         |
| Doors and Frames                            |               |                        |                              |                         |
| Door Hardware                               |               |                        |                              |                         |
| Windows                                     |               |                        |                              |                         |
| Glazing                                     |               |                        |                              |                         |
| Acoustical Tile                             |               |                        |                              |                         |
| Carpet                                      |               |                        |                              |                         |
| Carpet Pad                                  |               |                        |                              |                         |
| Demountable Partitions                      |               |                        |                              |                         |
| Equipment                                   |               |                        |                              |                         |
| Cabinets                                    |               |                        |                              |                         |
| Plumbing Fixtures                           |               |                        |                              |                         |
| Piping                                      |               |                        |                              |                         |
| Piping Supports and Hangers                 |               |                        |                              |                         |
| Valves                                      |               |                        |                              |                         |
| Sprinklers                                  |               |                        |                              |                         |
| Mechanical Equipment                        |               |                        |                              |                         |
| Electrical Conduit                          |               |                        |                              |                         |
| Copper Wiring                               |               |                        |                              |                         |
| Light Fixtures                              |               |                        |                              |                         |
| Lamps                                       |               |                        |                              |                         |
| Lighting Ballasts                           |               |                        |                              |                         |
| Electrical Devices                          |               |                        |                              |                         |
| Switchgear and Panelboards                  |               |                        |                              |                         |
| Transformers                                |               |                        |                              |                         |
| Other:                                      |               |                        |                              |                         |

Project Name: \_\_\_\_\_ Date: \_\_\_\_\_  
 Project #: \_\_\_\_\_

| FORM CWM-3: CONSTRUCTION WASTE REDUCTION WORK PLAN |                  |  |                                    |                                    |                                      |
|--|------------------|--|------------------------------------|------------------------------------|--------------------------------------|
| MATERIAL CATEGORY                                  | GENERATION POINT | TOTAL EST. QUANTITY OF WASTE TONS (TONNES) | DISPOSAL METHOD AND QUANTITY       |                                    | HANDLING AND TRANSPORTION PROCEDURES |
|  |                  |  | EST. AMOUNT SALVAGED TONS (TONNES) | EST. AMOUNT RECYCLED TONS (TONNES) |                                      |
| Packaging: Cardboard                               |                  |  |                                    |                                    |                                      |
| Packaging: Boxes                                   |                  |  |                                    |                                    |                                      |
| Packaging: Plastic Sheet or Film                   |                  |  |                                    |                                    |                                      |
| Packaging: Polystyrene                             |                  |  |                                    |                                    |                                      |
| Packaging: Pallets or Skids                        |                  |  |                                    |                                    |                                      |
| Packaging: Crates                                  |                  |  |                                    |                                    |                                      |
| Packaging: Paint Cans                              |                  |  |                                    |                                    |                                      |
| Packaging: Plastic Pails                           |                  |  |                                    |                                    |                                      |
| Site-Clearing Waste                                |                  |  |                                    |                                    |                                      |
| Masonry or CMU                                     |                  |  |                                    |                                    |                                      |
| Lumber: Cut-Offs                                   |                  |  |                                    |                                    |                                      |
| Lumber: Warped Pieces                              |                  |  |                                    |                                    |                                      |
| Plywood or OSB (scraps)                            |                  |  |                                    |                                    |                                      |
| Wood Forms   |                  |  |                                    |                                    |                                      |
| Wood Waste Chutes                                  |                  |  |                                    |                                    |                                      |
| Wood Trim (cut-offs)                               |                  |  |                                    |                                    |                                      |
| Metals   |                  |  |                                    |                                    |                                      |
| Insulation   |                  |  |                                    |                                    |                                      |
| Roofing  |                  |  |                                    |                                    |                                      |
| Joint Sealant Tubes                                |                  |  |                                    |                                    |                                      |
| Gypsum Board (scraps)                              |                  |  |                                    |                                    |                                      |
| Carpet and Pad (scraps)                            |                  |  |                                    |                                    |                                      |
| Piping   |                  |  |                                    |                                    |                                      |
| Electrical Conduit                                 |                  |  |                                    |                                    |                                      |
| Other:   |                  |  |                                    |                                    |                                      |

Project Name: \_\_\_\_\_  
 Project #: \_\_\_\_\_

Date: \_\_\_\_\_

FORM CWM-4: DEMOLITION WASTE REDUCTION WORK PLAN

| MATERIAL CATEGORY          | GENERATION POINT | TOTAL EST. QUANTITY OF WASTE TONS (TONNES) | DISPOSAL METHOD AND QUANTITY       |                                    |  | HANDLING AND TRANSPORTION PROCEDURES |
|----------------------------|------------------|--|------------------------------------|------------------------------------|--|--------------------------------------|
|                            |                  |  | EST. AMOUNT SALVAGED TONS (TONNES) | EST. AMOUNT RECYCLED TONS (TONNES) | EST. AMOUNT DISPOSED TO LANDFILL TONS (TONNES) |                                      |
| Asphaltic Concrete Paving  |                  |  |                                    |                                    |  |                                      |
| Concrete                   |                  |  |                                    |                                    |  |                                      |
| Brick                      |                  |  |                                    |                                    |  |                                      |
| CMU                        |                  |  |                                    |                                    |  |                                      |
| Lumber                     |                  |  |                                    |                                    |  |                                      |
| Plywood and OSB            |                  |  |                                    |                                    |  |                                      |
| Wood Paneling              |                  |  |                                    |                                    |  |                                      |
| Wood Trim                  |                  |  |                                    |                                    |  |                                      |
| Miscellaneous Metals       |                  |  |                                    |                                    |  |                                      |
| Structural Steel           |                  |  |                                    |                                    |  |                                      |
| Rough Hardware             |                  |  |                                    |                                    |  |                                      |
| Insulation                 |                  |  |                                    |                                    |  |                                      |
| Roofing                    |                  |  |                                    |                                    |  |                                      |
| Doors and Frames           |                  |  |                                    |                                    |  |                                      |
| Door Hardware              |                  |  |                                    |                                    |  |                                      |
| Windows                    |                  |  |                                    |                                    |  |                                      |
| Glazing                    |                  |  |                                    |                                    |  |                                      |
| Acoustical Tile            |                  |  |                                    |                                    |  |                                      |
| Carpet                     |                  |  |                                    |                                    |  |                                      |
| Carpet Pad                 |                  |  |                                    |                                    |  |                                      |
| Demountable Partitions     |                  |  |                                    |                                    |  |                                      |
| Equipment                  |                  |  |                                    |                                    |  |                                      |
| Cabinets                   |                  |  |                                    |                                    |  |                                      |
| Plumbing Fixtures          |                  |  |                                    |                                    |  |                                      |
| Piping                     |                  |  |                                    |                                    |  |                                      |
| Supports and Hangers       |                  |  |                                    |                                    |  |                                      |
| Valves                     |                  |  |                                    |                                    |  |                                      |
| Sprinklers                 |                  |  |                                    |                                    |  |                                      |
| Mechanical Equipment       |                  |  |                                    |                                    |  |                                      |
| Electrical Conduit         |                  |  |                                    |                                    |  |                                      |
| Copper Wiring              |                  |  |                                    |                                    |  |                                      |
| Light Fixtures             |                  |  |                                    |                                    |  |                                      |
| Lamps                      |                  |  |                                    |                                    |  |                                      |
| Lighting Ballasts          |                  |  |                                    |                                    |  |                                      |
| Electrical Devices         |                  |  |                                    |                                    |  |                                      |
| Switchgear and Panelboards |                  |  |                                    |                                    |  |                                      |
| Transformers               |                  |  |                                    |                                    |  |                                      |
| Other:                     |                  |  |                                    |                                    |  |                                      |

Project Name: \_\_\_\_\_  
 Project #: \_\_\_\_\_

Date: \_\_\_\_\_

| FORM CWM-5: COST/REVENUE ANALYSIS OF CONSTRUCTION WASTE REDUCTION WORK PLAN |  |                           |   |                                     |                                     |                                   |   |   |
|---|--|---------------------------|---|-------------------------------------|-------------------------------------|-----------------------------------|---|---|
| MATERIALS   | TOTAL QUANTITY OF MATERIALS (VOL. OR WEIGHT) (A) | EST. COST OF DISPOSAL (B) | TOTAL EST. COST OF DISPOSAL (C = A x B) | REVENUE FROM SALVAGED MATERIALS (D) | REVENUE FROM RECYCLED MATERIALS (E) | LANDFILL TIPPING FEES AVOIDED (F) | HANDLING AND TRANSPORTATION COSTS AVOIDED (G) | NET COST SAVINGS OF WORK PLAN (H = D+E+F+G) |
| Packaging: Cardboard  |  |                           |   |                                     |                                     |                                   |   |   |
| Packaging: Boxes  |  |                           |   |                                     |                                     |                                   |   |   |
| Packaging: Plastic Sheet or Film  |  |                           |   |                                     |                                     |                                   |   |   |
| Packaging: Polystyrene  |  |                           |   |                                     |                                     |                                   |   |   |
| Packaging: Pallets or Skids   |  |                           |   |                                     |                                     |                                   |   |   |
| Packaging: Crates   |  |                           |   |                                     |                                     |                                   |   |   |
| Packaging: Paint Cans   |  |                           |   |                                     |                                     |                                   |   |   |
| Packaging: Plastic Pails  |  |                           |   |                                     |                                     |                                   |   |   |
| Site-Clearing Waste   |  |                           |   |                                     |                                     |                                   |   |   |
| Masonry or CMU  |  |                           |   |                                     |                                     |                                   |   |   |
| Lumber: Cut-Offs  |  |                           |   |                                     |                                     |                                   |   |   |
| Lumber: Warped Pieces   |  |                           |   |                                     |                                     |                                   |   |   |
| Plywood or OSB (scraps)   |  |                           |   |                                     |                                     |                                   |   |   |
| Wood Forms  |  |                           |   |                                     |                                     |                                   |   |   |
| Wood Waste Chutes   |  |                           |   |                                     |                                     |                                   |   |   |
| Wood Trim (cut-offs)  |  |                           |   |                                     |                                     |                                   |   |   |
| Metals  |  |                           |   |                                     |                                     |                                   |   |   |
| Insulation  |  |                           |   |                                     |                                     |                                   |   |   |
| Roofing   |  |                           |   |                                     |                                     |                                   |   |   |
| Joint Sealant Tubes   |  |                           |   |                                     |                                     |                                   |   |   |
| Gypsum Board (scraps)   |  |                           |   |                                     |                                     |                                   |   |   |
| Carpet and Pad (scraps)   |  |                           |   |                                     |                                     |                                   |   |   |
| Piping  |  |                           |   |                                     |                                     |                                   |   |   |
| Electrical Conduit  |  |                           |   |                                     |                                     |                                   |   |   |
| Other:  |  |                           |   |                                     |                                     |                                   |   |   |

Project Name: \_\_\_\_\_  
 Project #: \_\_\_\_\_

Date: \_\_\_\_\_

| FORM CWM-6: COST/REVENUE ANALYSIS OF DEMOLITION WASTE REDUCTION WORK PLAN |  |                           |   |                                     |                                     |                                   |   |   |
|---|--|---------------------------|---|-------------------------------------|-------------------------------------|-----------------------------------|---|---|
| MATERIALS   | TOTAL QUANTITY OF MATERIALS (VOL. OR WEIGHT) (A) | EST. COST OF DISPOSAL (B) | TOTAL EST. COST OF DISPOSAL (C = A x B) | REVENUE FROM SALVAGED MATERIALS (D) | REVENUE FROM RECYCLED MATERIALS (E) | LANDFILL TIPPING FEES AVOIDED (F) | HANDLING AND TRANSPORTATION COSTS AVOIDED (G) | NET COST SAVINGS OF WORK PLAN (H = D+E+F+G) |
| Asphaltic Concrete Paving   |  |                           |   |                                     |                                     |                                   |   |   |
| Concrete  |  |                           |   |                                     |                                     |                                   |   |   |
| Brick   |  |                           |   |                                     |                                     |                                   |   |   |
| CMU   |  |                           |   |                                     |                                     |                                   |   |   |
| Lumber  |  |                           |   |                                     |                                     |                                   |   |   |
| Plywood and OSB   |  |                           |   |                                     |                                     |                                   |   |   |
| Wood Paneling   |  |                           |   |                                     |                                     |                                   |   |   |
| Wood Trim   |  |                           |   |                                     |                                     |                                   |   |   |
| Miscellaneous Metals  |  |                           |   |                                     |                                     |                                   |   |   |
| Structural Steel  |  |                           |   |                                     |                                     |                                   |   |   |
| Rough Hardware  |  |                           |   |                                     |                                     |                                   |   |   |
| Insulation  |  |                           |   |                                     |                                     |                                   |   |   |
| Roofing   |  |                           |   |                                     |                                     |                                   |   |   |
| Doors and Frames  |  |                           |   |                                     |                                     |                                   |   |   |
| Door Hardware   |  |                           |   |                                     |                                     |                                   |   |   |
| Windows   |  |                           |   |                                     |                                     |                                   |   |   |
| Glazing   |  |                           |   |                                     |                                     |                                   |   |   |
| Acoustical Tile   |  |                           |   |                                     |                                     |                                   |   |   |
| Carpet  |  |                           |   |                                     |                                     |                                   |   |   |
| Carpet Pad  |  |                           |   |                                     |                                     |                                   |   |   |
| Demountable Partitions  |  |                           |   |                                     |                                     |                                   |   |   |
| Equipment   |  |                           |   |                                     |                                     |                                   |   |   |
| Cabinets  |  |                           |   |                                     |                                     |                                   |   |   |
| Plumbing Fixtures   |  |                           |   |                                     |                                     |                                   |   |   |
| Piping  |  |                           |   |                                     |                                     |                                   |   |   |
| Supports and Hangers  |  |                           |   |                                     |                                     |                                   |   |   |
| Valves  |  |                           |   |                                     |                                     |                                   |   |   |
| Sprinklers  |  |                           |   |                                     |                                     |                                   |   |   |
| Mech. Equipment   |  |                           |   |                                     |                                     |                                   |   |   |
| Electrical Conduit  |  |                           |   |                                     |                                     |                                   |   |   |
| Copper Wiring   |  |                           |   |                                     |                                     |                                   |   |   |
| Light Fixtures  |  |                           |   |                                     |                                     |                                   |   |   |
| Lamps   |  |                           |   |                                     |                                     |                                   |   |   |
| Lighting Ballasts   |  |                           |   |                                     |                                     |                                   |   |   |
| Electrical Devices  |  |                           |   |                                     |                                     |                                   |   |   |
| Switchgear and Panelboards  |  |                           |   |                                     |                                     |                                   |   |   |
| Transformers  |  |                           |   |                                     |                                     |                                   |   |   |
| Other:  |  |                           |   |                                     |                                     |                                   |   |   |

Project Name: \_\_\_\_\_  
 Project #: \_\_\_\_\_

Date: \_\_\_\_\_

| FORM CWM-7: CONSTRUCTION WASTE REDUCTION PROGRESS REPORT |                  |                                  |     |                            |                      |                            |                          |   |   |
|--|------------------|----------------------------------|-----|----------------------------|----------------------|----------------------------|--------------------------|---|---|
| MATERIAL CATEGORY  | GENERATION POINT | TOTAL QUANTITY OF WASTE (TONNES) |     | QUANTITY OF WASTE SALVAGED |                      | QUANTITY OF WASTE RECYCLED |                          | TOTAL QUANTITY OF WASTE RECOVERED TONS (TONNES) (D = B + C) | TOTAL QUANTITY OF WASTE RECOVERED % (D / A x 100) |
|  |                  | (A)                              | (B) | ESTIMATED TONS (TONNES)    | ACTUAL TONS (TONNES) | ESTIMATED TONS (TONNES)    | ACTUAL TONS (TONNES) (C) |   |   |
| Packaging: Cardboard                                     |                  |                                  |     |                            |                      |                            |                          |   |   |
| Packaging: Boxes   |                  |                                  |     |                            |                      |                            |                          |   |   |
| Packaging: Plastic Sheet or Film                         |                  |                                  |     |                            |                      |                            |                          |   |   |
| Packaging: Polystyrene                                   |                  |                                  |     |                            |                      |                            |                          |   |   |
| Packaging: Pallets or Skids                              |                  |                                  |     |                            |                      |                            |                          |   |   |
| Packaging: Crates  |                  |                                  |     |                            |                      |                            |                          |   |   |
| Packaging: Paint Cans                                    |                  |                                  |     |                            |                      |                            |                          |   |   |
| Packaging: Plastic Pails                                 |                  |                                  |     |                            |                      |                            |                          |   |   |
| Site-Clearing Waste                                      |                  |                                  |     |                            |                      |                            |                          |   |   |
| Masonry or CMU   |                  |                                  |     |                            |                      |                            |                          |   |   |
| Lumber: Cut-Offs   |                  |                                  |     |                            |                      |                            |                          |   |   |
| Lumber: Warped Pieces                                    |                  |                                  |     |                            |                      |                            |                          |   |   |
| Plywood or OSB (scraps)                                  |                  |                                  |     |                            |                      |                            |                          |   |   |
| Wood Forms   |                  |                                  |     |                            |                      |                            |                          |   |   |
| Wood Waste Chutes  |                  |                                  |     |                            |                      |                            |                          |   |   |
| Wood Trim (cut-offs)                                     |                  |                                  |     |                            |                      |                            |                          |   |   |
| Metals   |                  |                                  |     |                            |                      |                            |                          |   |   |
| Insulation   |                  |                                  |     |                            |                      |                            |                          |   |   |
| Roofing  |                  |                                  |     |                            |                      |                            |                          |   |   |
| Joint Sealant Tubes                                      |                  |                                  |     |                            |                      |                            |                          |   |   |
| Gypsum Board (scraps)                                    |                  |                                  |     |                            |                      |                            |                          |   |   |
| Carpet and Pad (scraps)                                  |                  |                                  |     |                            |                      |                            |                          |   |   |
| Piping   |                  |                                  |     |                            |                      |                            |                          |   |   |
| Electrical Conduit                                       |                  |                                  |     |                            |                      |                            |                          |   |   |
| Other:   |                  |                                  |     |                            |                      |                            |                          |   |   |

Project Name: \_\_\_\_\_ Date: \_\_\_\_\_  
 Project #: \_\_\_\_\_

| FORM CWM-8: DEMOLITION WASTE REDUCTION PROGRESS REPORT |                  |                                  |                            |                          |                            |                          |  |   |
|--|------------------|----------------------------------|----------------------------|--------------------------|----------------------------|--------------------------|--|---|
| MATERIAL CATEGORY                                      | GENERATION POINT | TOTAL QUANTITY OF WASTE TONS (A) | QUANTITY OF WASTE SALVAGED |                          | QUANTITY OF WASTE RECYCLED |                          | TOTAL QUANTITY OF WASTE RECOVERED TONS (D = B + C) | TOTAL QUANTITY OF WASTE RECOVERED % (D / A x 100) |
|  |                  |                                  | ESTIMATED TONS (TONNES)    | ACTUAL TONS (TONNES) (B) | ESTIMATED TONS (TONNES)    | ACTUAL TONS (TONNES) (C) |  |   |
| Asphaltic Concrete Paving                              |                  |                                  |                            |                          |                            |                          |  |   |
| Concrete   |                  |                                  |                            |                          |                            |                          |  |   |
| Brick  |                  |                                  |                            |                          |                            |                          |  |   |
| CMU  |                  |                                  |                            |                          |                            |                          |  |   |
| Lumber   |                  |                                  |                            |                          |                            |                          |  |   |
| Plywood and OSB  |                  |                                  |                            |                          |                            |                          |  |   |
| Wood Paneling  |                  |                                  |                            |                          |                            |                          |  |   |
| Wood Trim  |                  |                                  |                            |                          |                            |                          |  |   |
| Miscellaneous Metals                                   |                  |                                  |                            |                          |                            |                          |  |   |
| Structural Steel                                       |                  |                                  |                            |                          |                            |                          |  |   |
| Rough Hardware   |                  |                                  |                            |                          |                            |                          |  |   |
| Insulation   |                  |                                  |                            |                          |                            |                          |  |   |
| Roofing  |                  |                                  |                            |                          |                            |                          |  |   |
| Doors and Frames                                       |                  |                                  |                            |                          |                            |                          |  |   |
| Door Hardware  |                  |                                  |                            |                          |                            |                          |  |   |
| Windows  |                  |                                  |                            |                          |                            |                          |  |   |
| Glazing  |                  |                                  |                            |                          |                            |                          |  |   |
| Acoustical Tile  |                  |                                  |                            |                          |                            |                          |  |   |
| Carpet   |                  |                                  |                            |                          |                            |                          |  |   |
| Carpet Pad   |                  |                                  |                            |                          |                            |                          |  |   |
| Demountable Partitions                                 |                  |                                  |                            |                          |                            |                          |  |   |
| Equipment  |                  |                                  |                            |                          |                            |                          |  |   |
| Cabinets   |                  |                                  |                            |                          |                            |                          |  |   |
| Plumbing Fixtures                                      |                  |                                  |                            |                          |                            |                          |  |   |
| Piping   |                  |                                  |                            |                          |                            |                          |  |   |
| Supports and Hangers                                   |                  |                                  |                            |                          |                            |                          |  |   |
| Valves   |                  |                                  |                            |                          |                            |                          |  |   |
| Sprinklers   |                  |                                  |                            |                          |                            |                          |  |   |
| Mechanical Equipment                                   |                  |                                  |                            |                          |                            |                          |  |   |
| Electrical Conduit                                     |                  |                                  |                            |                          |                            |                          |  |   |
| Copper Wiring  |                  |                                  |                            |                          |                            |                          |  |   |
| Light Fixtures   |                  |                                  |                            |                          |                            |                          |  |   |
| Lamps  |                  |                                  |                            |                          |                            |                          |  |   |
| Lighting Ballasts                                      |                  |                                  |                            |                          |                            |                          |  |   |
| Electrical Devices                                     |                  |                                  |                            |                          |                            |                          |  |   |
| Switchgear and Panelboards                             |                  |                                  |                            |                          |                            |                          |  |   |
| Transformers   |                  |                                  |                            |                          |                            |                          |  |   |
| Other:   |                  |                                  |                            |                          |                            |                          |  |   |





3608 University Drive  
Suite 204  
Durham North Carolina 27707

T 919 490 1266  
F 919 490 1396

[www.RNDarchitects.com](http://www.RNDarchitects.com)

**Durham County Judicial Annex Building Renovations**

**RND 1721**

**Bidder Questions**

Issued November 26, 2018

Question #1: Please confirm that the requirements of spec section 017419 are intended for this project.

Answer #1: Please refer to Addendum No. 2.

Question #2: May we re-visit the project site?

Answer #2: A tour of the project site was conducted immediately following the pre-bid conference.

Additional site visits will not be scheduled.

Question #3: Will Material Substitutions be accepted?

Answer #3: Please refer to Addendum No. 2.

End of Bidder Questions as of November 26, 2018