

ITEM 10202.20 M - CONSTRUCTION AND DEMOLITION DEBRIS EXCAVATION AND HANDLING

ITEM 10202.21 M - CONSTRUCTION AND DEMOLITION DEBRIS TRANSPORTATION AND DISPOSAL

GENERAL

The Contractor shall furnish all equipment, labor, materials, disposal fees, laboratory analyses fees, other fees, permits, taxes and incidentals to complete the work consisting of the excavation, stockpiling, removal, sampling, transportation, and disposal and any other handling required for proper management of all materials required to be removed as detailed on the plans. In addition, the Contractor will be responsible for any dewatering he deems necessary to complete the project.

As detailed on the plans, it is expected that all materials encountered in the excavation will be classified as construction and demolition (C&D) debris. If any material is encountered that cannot be classified as uncontaminated C&D debris because of contamination, it shall be reported to the Engineer and at the Engineer's direction stockpiled, tested and disposed of in accordance with all applicable regulations.

Removal and disposal of uncontaminated C&D debris are described in NYSDEC Part 360; facilities accepting such designated wastes in the State of New York are required to maintain a current permit. The Contractor is responsible for choosing appropriate disposal facilities and specifying those facilities in the Materials Handling Plan submittal. In addition, the Contractor is responsible for all sampling and analyses requirements specified by the receiving disposal facilities.

The Contractor will be required to bid on the excavation, to the lines and grades shown on the plans, and handling of the C&D material based on the insitu volume of material. Payment for the transportation and disposal of the C&D material will be based on the weight of the material transported. No payment will be made for disposal of materials excavated outside the lines and grades shown on the plans.

MATERIALS

The Engineer may require the following related to on-site stockpiling:

- 508 micron minimum plastic sheeting for base of stockpiles.
- 152 micron plastic sheeting for covering of stockpiles, trucks, and/or rolloffs.

SUBMITTALS

MATERIALS HANDLING PLAN

Within 30 calendar days after the contract is awarded, the Contractor shall submit to the Engineer for review and approval, a Materials Handling Plan. The Materials Handling Plan must be approved in writing by the Engineer prior to the Contractor's commencement of work within the defined areas. The Materials Handling Plan shall, at a minimum include:

Detailed written procedures to be used to excavate, load and transport construction and demolition debris to conveying vehicles and/or the stockpile or staging area, which is at the Contractor's convenience.

An outline of the Contractor's intended methods for, storage, transportation, and/or disposal as applicable. This will include:

- _ The method of disposal that will be used.

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- Identification of and information on the Contractor's proposed off-site disposal facilities shall be submitted and will include: facility name, address, responsible contact person and a copy of each disposal facility current operating permit that indicates both the type of materials allowed and not allowed for final disposal. Additionally, the Contractor shall submit a signed letter of agreement from each facility to accept the waste as specified in the contract, listing of all permits, licenses, waste transporter permits (and any permits from any other states as necessary) authorizing the shipment of wastes of this description to the designated facility as they pertain to this Contract. The letter will also clearly state the facilities requirements for any sampling and analysis of the waste prior to disposal. This information will include at a minimum: number of samples per unit volume (insitu), specific laboratory analyses to be performed on each sample, and any other special test or requirements of the facility. Also included for each facility will be a maximum allowable concentration (if applicable) for each parameter in the required list of analyses. Ultimate removal of material to approved facilities will be based upon final sampling in comparison to the facilities sampling requirements. The sampling frequency (samples per unit volume) required by the disposal facility must be met for facility approval.
- Identification of and information on the Contractor's proposed waste transporter to include: name, address, telephone number, responsible contact, NYS Transporter ID number, and any and all necessary permit authorizations for the waste anticipated to be transported from the site to treatment/disposal facilities.
- Identification of the local, licensed scale the Contractor will use to provide tare and gross weight of each load in each vehicle used for transporting C&D debris.

C&D SAMPLE ANALYSES PLAN

If additional sample collection and analyses are requested by the disposal facility, the Contractor shall submit to the Engineer for approval a C&D Sample Analyses Plan. No sampling is to be conducted until the Engineer has approved this plan. The plan will include at a minimum, the following information:

Scaled drawing of sampling area.

Identification number of sample locations.

List of parameters and protocols for which the materials will be tested.

A brief description of the sampling and/or compositing procedures to be used.

Name, address, responsible contact, telephone number and the laboratory's NYS Department of Health (NYSDOH) certificate for the required analyses from the Contractor's proposed NYSDOH-certified analytical laboratory to be used.

Demonstration that any analyses required in the plan will be performed according to NYSDEC Analytical Services Protocol (ASP) and will be submitted in Category B data deliverables data package.

Number of quality assurance samples to be collected for each analysis.

Reference to appropriate chain-of-custody procedures that will be followed. All samples will be

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handled, stored, and shipped in accordance with sample preparation and holding time requirements and with chain-of-custody procedures. Requirements are further described in NYSDEC's ASP (October 1995, and as revised).

The Engineer will review the sampling plan according to the most current applicable guidelines or regulations and may add or delete from the parameters or protocols and require changes to the proposed sampling.

ANALYTICAL RESULTS

Within 21 calendar days following any sampling conducted by the Contractor, the Contractor shall submit to the Engineer a report on the sampling results.

The submission shall include a data reporting package prepared by the analytical laboratory in accordance with the Category B deliverables described in NYSDEC's Analytical Services Protocol.

The submission shall also include the following information:

- _ Reference to the approved sampling plan (submission number, date submitted, date approved).
- _ Description and identification of the sample locations.
- _ Deviations from the approved sampling plan, if any.
- _ Field data sheets, including sketch maps of the sample locations.
- _ Data summary tables providing a comparison of analytical results and disposal facility criteria.

OTHER SAMPLE ANALYSES

If encountered during excavation or sampling, obvious petroleum contaminated soil and/or debris will be reported immediately (within 1 hour) to the Engineer. The Contractor will proceed as directed by the Engineer and will submit documentation pertinent to the excavation, stockpiling, sampling, reporting, and disposal of petroleum contaminated soils.

DEWATERING PLAN

Water encountered in the scope of the project that requires removal to complete the work shall be pumped out and/or discharged using a method specified by the Contractor in a Dewatering Plan which will be submitted to the Engineer for approval. The Dewatering Plan must be approved in writing by the Engineer prior to the Contractor's commencement of work.

The Dewatering Plan shall insure all water shall be properly handled and disposed of in accordance with all state and local regulations. If required, water will be sampled and analyzed as required by the intended discharge and/or disposal means.

Water may be treated on site per procedures submitted and approved in the Dewatering Plan. All such treatment methods must be in accordance with state, local and federal regulations.

EXECUTION

EXCAVATION

Excavation shall be performed in general accordance with NYSDOT standard specification 206-3.01.

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STOCKPILING AT DIRECTION OF ENGINEER

Stockpiling or staging of uncontaminated C&D material will be at the Contractor's convenience. If interim stockpiling is required, place on a minimum of 508-micron or equivalent plastic ground cloth and cover by 152-micron minimum polyethylene sheeting or equivalent to protect against leaching or runoff of contaminants into groundwater or storm water. Weight or secure the sheeting by appropriate means and seal seams as approved by the Engineer to prevent tearing or removal by weather. The specification of 508-micron plastic sheeting for the base of the stockpiles was intended to provide sufficient durability to withstand tearing from vehicles driving on the plastic during loading of material. In situations using small stockpiles where significant vehicular entry is not expected on the plastic sheeting, a lighter plastic such as 152-micron plastic could be alternatively allowed by the Engineer.

OFF-SITE TRANSPORTATION

The Contractor shall verify and document that the transporter has a current waste transporter's permit authorizing the transport of the project waste streams to the intended final disposal facility(s) subject to the approval of the Engineer. The Contractor shall coordinate all shipments and arrivals at the disposal facilities to meet project schedule requirements. The Contractor shall complete any required shipping papers/manifests, placarding, and weighing/load measurements and provide documentation/copies to the Engineer.

The Contractor shall ensure that trucks that are used to transport any materials during the project protect against contamination to the environment. This will be accomplished by properly covering and lining the trucks with compatible material and/or by decontaminating them prior to any use other than hauling contaminated materials. The Contractor shall verify that any trucks/tankers used to transport liquid or materials are not leaking.

The Contractor will use only the transporters listed in the Materials Handling Plan. The Contractor must obtain written approval of the Engineer prior to any change in the use of listed transporters.

The Contractor shall not combine contaminated materials from other projects with materials from the Project Site.

The Contractor shall be held responsible for any and all actions necessary to remedy situations involving material spilled in transit or mud and dust tracked off site. Any cleanup necessary shall be accomplished at the Contractor's expense.

DISPOSAL

The Contractor will ensure that materials are transported to the intended facilities, and only to the facilities listed in the Materials Handling Plan. The Contractor must obtain written approval of the Engineer prior to any change in the use of listed facilities.

Trucks used for the transportation to disposal shall be tared out at a local certified weigh scale on the day(s) that the truck is loaded, and shall be gross weighed at the same weigh scale within one hour of leaving the site with its load. Trucks then shall proceed directly to the disposal facility where they will be gross and tare weighed again. The Contractor will also receive weight tickets or other measurements from both the local scale and the disposal facilities and provide such documentation to the Engineer. Any deviation (>10%) between records of materials shipped and materials received will be reported immediately on the day of shipping to the Engineer.

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METHOD OF MEASUREMENT

The excavation and handling of construction and demolition debris will be based on the insitu volume of material requiring excavation measured in cubic meters to the lines and grade shown on plans. Transportation and disposal of C&D materials at the approved permitted off-site disposal facilities will be based on the weight of the material in metric tons transported, as determined by the Engineer from weigh tickets at the disposal facilities and/or the local weigh scale.

BASIS OF PAYMENT

The unit price for Item 10202.20M C&D Debris Excavation and Handling shall include the cost of furnishing all labor, materials, equipment, excavation stockpiling, sample collection and laboratory analyses of C&D material required by the disposal facility and any dewatering that is necessary to complete the work. All costs incidental to this excavation including but not limited to the preparation of the plans and submittals required in Item 10202.20M C&D Debris Excavation and Handling, dewatering and disposal of removed water, sampling and analysis required by the Contractor's selected C&D disposal facilities, and all work as needed to complete the excavation according to these specifications shall be included in the unit price for C&D Debris Excavation and Handling item.

The unit price for Item 10202.21M C&D Debris Transportation and Disposal, shall include the cost of furnishing all labor, materials, equipment, transportation, disposal, plans and submittals and documentation.

DISAPPROVED BY 16007