

DETAILED SPECIFICATIONS

**PART I
UNCLASSIFIED SELECT FILL**

203-2 MATERIALS

203-2.01 Tests and Control Method. Materials test and control methods pertaining to the item requirements and work of this Section will be performed in conformance with the procedures contained in the appropriate Departmental publication in effect on the date of the advertisement for bids. These publications are available upon request to the NYSDoT Regional Director, or the Director, Geotechnical Engineering Bureau.

203-2.01 Select Materials and Subgrade Area Material Requirements. The requirements for select materials and subgrade area materials are described below. The procedure for acceptance or rejection of these materials shall be as described in the appropriate Geotechnical Control Procedure (GCP) Manual.

- A. Subgrade Area Material. Subgrade area material shall consist of any suitable material having no particles greater than 6 inches in maximum dimension (203-2.01A Select Granular Subgrade 733-13).
- B. Select Borrow (203-2.04 and 733-09) and Select Fill (203-2.05 and 733-10) respectively.

1. Gradation. Material furnished for these items shall have no particles greater than 1.5 feet in maximum dimension. Of the portion passing the 4 inch square sieve, the material shall have the following gradation as per 733-09A:

Sieve Size	Percent Passing by Weight
No. 40	0 to 70
No. 200	0 to 15

2. Soundness. The material shall be sound and durable. A material with a Magnesium Sulfate Soundness Loss exceeding 35 percent will be rejected.

- C. Select Granular Fill (733-11) and Select Structure Fill (733-14). Materials furnished under these items shall conform to the following requirements (203-2, C, 2-4 and 733-11A) (203-2.06 and 733-11) and (203-2.13 and 733-14):

1. Gradation. The material shall have the following gradation TABLE 733-11A:

Sieve Size	Percent Passing by Weight
4 inch	100
No. 40	0 to 70
No. 200	0 to 15

2. Soundness. The materials shall be substantially free of shale or other soft, poor durability particles. A material with a magnesium Sulfate Soundness Loss exceeding 30 percent will be rejected.

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D. Select Granular Subgrade (203-2.12 and 733-13).

1. Gradation.

(a) Well graded rock may be used for this item. Particles shall not exceed 12 inches in greatest dimension nor 2/3 of the loose lift thickness, whichever is less.

(b) All materials, other than well graded rock, furnished under this item shall have no particles greater than 6 inches in maximum dimension. Of the portion passing the 4 inch square sieve, the material shall have the following gradation as per 203-2.12 and 733-13:

Sieve Size	Percent Passing by Weight
1/4 inch	30 to 100
No. 40	0 to 50
No. 200	0 to 10

2. Soundness. Where the State elects to test for this requirement, a material with a Magnesium Sulfate Soundness Loss exceeding 35 percent will be rejected.

E. SHOTROCK

Jefferson County wishes to receive bids for the purchase of rock that has been fragmented by explosives to the degree that the explosion has produced a maximum particle size of 18". The rock particles shall have been excavated by the supplier from a ledge rock face and consist of an approved limestone, sandstone or granite.

F. Topsoil 613 – 610-3.01

Scope. This specification covers the material requirements for topsoil for use in seeding, sodding, or planting as described in 713-01.B Manufactured or Offsite Materials: 1. Topsoil Roadside and 2. Topsoil Lawn.

Material Requirements. Topsoil shall be the surface layer of soil and shall be free from refuse, any material toxic to plant growth, subsoil, woody vegetation, and stumps, roots, brush, stones, clay lumps or similar objects larger than two inches in greatest dimension. Sod and herbaceous growth such as grass and weeds need not be removed but shall be thoroughly broken up and mixed with the soil during handling operations.

Topsoil shall meet the following requirements unless otherwise specifically stated in the contract documents or proposal:

1. Topsoil – Roadside

- The pH of the material shall be between 5.5 and 7.6.
- The organic content shall be not less than 3% or more than 8%

Gradation:

Sieve Size	Percent Passing by Weight
2 inch	100
1 inch	85 to 100
1/4 inch	65 to 100
No. 200	20 to 65
2 Micron	0 to 20

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2. Topsoil – Lawn

- The pH of the material shall be between 5.5 and 7.6.
- The organic content shall be not less than 6% or more than 12%

Gradation:

Sieve Size	Percent Passing by Weight
1 inch	100
No. 10	90 to 100
No. 40	45 to 80
No. 200	25 to 70
2 Micron	5 to 35

The Contractor may amend natural topsoil with approved materials and by approved methods meet the above specifications.

PART II
CRUSHED STONE & GRAVEL

- 1. All materials bid are subject to the approval of the County Highway Superintendent or his designee and shall conform to: Section 304 - Subbase Course (733-04); Section 703 - Aggregates; and/or Section 405 - Cold Bituminous Mixtures of the most recent *Standard Specifications for Construction Materials* as published by the Office of Engineering of the New York State Department of Transportation, and all subsequent addenda. The County reserves the right to conduct tests of any materials bid to determine suitability for supplying the needs of the County.
- 2. Gradation of items submitted for bid are subject to the size designations contained in Table 703-4 and other designations as provided in these specifications.
- 3. Type 2A (3/4" minus crushed stone or gravel)

Sieve Size Designation	Percent Passing by Weight
3/4"	100
1/4"	25 - 60
No. 40	5 - 40
No. 200	0 - 10

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Screen Sized Stone TABLE 703-4 COURSE AGGREGATES											
Size Designation	4"	3"	2 2"	2"	1 2"	1"	2"	1/4"	1/8"	No. 80 Sieve	No. 200 ⁽³⁾ Sieve
Screenings ⁽²⁾	C	---	---	---	---	---	100	90-100	---	---	0-1.0
1B	---	---	---	---	---	---	---	100	90-100	0-15	0-1.0
1A	---	---	---	---	---	---	100	90-100	0-15	---	0-1.0
1ST	---	---	---	---	---	---	100	0-15	---	---	0-1.0
1	---	---	---	---	---	100	90-100	0-15	---	---	0-1.0
2	---	---	---	---	100	90-100	0-15	---	---	---	0-1.0
3A	---	---	---	100	90-100	0-15	---	---	---	---	0-0.7
3	---	---	100	90-100	35-70	0-15	---	---	---	---	0-0.7
4A	---	100	90-100	---	0-20	---	---	---	---	---	0-0.7
4	100	90-100	---	0-15	---	---	---	---	---	---	0-0.7
5	90-100	0-15	---	000	---	---	---	---	---	---	0-0.7

- (1) Percentage by weight passing the following square openings.
- (2) Screenings shall include all of the fine material passing a 1/4" screen.
- (3) The minus 200 material requirements applies only to aggregate for use in Portland cement concrete, surface treatments, cold mix bituminous pavements, and underdrain filter material. The test (NYSDOT 201) will be performed on the entire sample of the designated size aggregate. Primary size does not apply in the determination of the minus 200 material.

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SUBBASE COURSE MATERIAL TABLE 733-04A

TYPE	Sieve Size Designation	Percent Passing by Weight
1	3 inch	100
	2 inch	90 - 100
	1/4 inch	30 - 65
	No. 40	5 - 40
	No.200	0 - 10
2	2 inch	100
	1/4 inch	25 - 60
	No. 40	5 - 40
	No. 200	0 - 10
2a	3/4 inch	100 Not in NYSDOT
	1/4 inch	25 - 60 Not in NYSDOT
	No. 40	5 - 40 Not in NYSDOT
	No. 200	0 - 10 Not in NYSDOT
3	4 inch	100
	1/4 inch	30 - 75
	No. 40	4 - 40
	No. 200	0 - 10
3 JC	6 inch	100
	1/4 inch	30 - 75
	No. 40	5 - 40
	No. 200	0 - 10

COMPOSITION OF COLD BITUMINOUS MIXTURES

	Mixes		
Sieve Size	Type 1 General Limits % passing (1)	Type 2 General Limits % passing (1)	Type 3 General Limits % passing (1)
2"			100
1 2"		100	75 - 100
1"	100	90 - 100	50 - 80
2"	90 - 100	15 - 45	0 - 15
1/4"	15 - 45	1 - 10	---
1/8"	0 - 10	---	---
No. 200	1 - 1.0	1 - 1.0	0 - 1.0
Bituminous Material (2) (3)	4.7 - 7.0	4.0 - 6.0	3.5 - 5.5
Description	Open, Coarse texture	Open, Coarse texture	Open, Coarse texture
Typical Uses	Surface Course	Intermediate	Base Course

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STONE FILL GRADATION REQUIREMENTS TABLE 733-21A			
Stone Fill Item	See Notes	Stone Size	% of Total by Weight
Fine	2, 3, 4	Smaller than 8" Larger than 3" Smaller than # 10 sieve	90 – 100 50 – 100 0 – 10
Light	2, 3, 4	Lighter than 100 lbs Larger than 6" Smaller than 1/2"	90 – 100 50 – 100 0 – 10
Medium	2, 4	Heavier than 100 lbs Smaller than 4"	50 – 100 0 – 10
Heavy	2, 4, 5	Heavier than 600 lbs Smaller than 6"	50 – 100 0 – 10

Notes:

1. Specification for placing found in Section 620-3.02 Stone Filling. Stone sizes, other than weights, refer to the average of the maximum and minimum dimensions of a stone particle as estimated by the Engineer.
2. Materials shall contain less than 20 % of stones with a ratio of maximum to minimum dimension greater than three.
3. Air-cooled blast furnace slag, cobbles or gravel having at least one fractured face per particle are acceptable substitutes for stone under these items, provided that soundness and gradation requirements are met.
4. Materials shall contain a sufficient amount of stones smaller than the average stone size to fill the voids between larger stones.
5. Heavier gradings of this item may be required on some projects, in which case the requirements will be stated on the plans or in the project proposal.
6. Refer to page Table 733-21B of NYSDOT SPECIFICATIONS FOR STONE FILLING APPROXIMATE SHAPE.

**PART III
SNOW AND ICE ABRASIVE**

SCOPE: This specification covers the material requirements and basis of acceptance for abrasive used to control snow and ice on pavements.

MATERIAL REQUIREMENTS: The material for abrasive shall be either natural sand, manufactured sand, stone screening, iron ore tailings, crushed slag, crushed lightweight aggregate, or crushed cinders conforming to the requirements of these specifications. All abrasive materials shall consist of hard, durable particles which are free from injurious amounts of clay, loam or other deleterious substances. The color of the abrasive material shall provide visual contrast with the ice or compacted snow on the pavement.

SAMPLING: Sampling shall be performed by the Superintendent of Highways or his representatives and shall be determined by the type of operation of the selected vendor. Where stockpiles exist, the material may be sampled in the stockpiles prior to loading. Where material is being processed shortly in advance of, or concurrent with loading, the process may be sampled. Where the material is unprocessed, specific working areas of the source may be sampled prior to delivery. All delivered materials are subject to random sampling and/or specific sampling. Sampling methods will conform to procedures established by the NYSDoT.

All abrasive shall meet the following gradation requirements:

SPECIFICATION GRADATION

<u>Sieve</u>	<u>Percent - Passing</u>
3/8"	100
No. 4	80 - 100
No. 50	0 - 30
No. 200	0 - 5

NOTE: The percent passing shall be based on weight determined by dry sieving a sample of dry abrasive material that had the - #200 material removed by wet washing. Sieves shall meet ASTM E11 requirements.

ACCEPTANCE. Acceptance of abrasive material shall be based upon the condition that the material meets the specification requirements. Acceptance shall be determined at the final point of sampling. Depending on the production operation and the uniformity of loaded material, the final point of acceptance sampling could be the producer's stockpile, the producer's production operation, or the producer's pit.

WASHED SAND

SCOPE. This specification contains the requirements for sand used for Airport de-icing.

Material shall meet FAA Advisory Circular 150/5200-30 current edition. Materials for aircraft movement surfaces must consist of washed granular mineral sand particles free of stone, clay, debris, slag, chloride salts and other corrosive substances. The pH of the water solution containing the material must be approximately neutral (pH7).

GENERAL. Para 703-01, Fine Aggregate, shall apply except as modified herein.

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MATERIAL REQUIREMENTS. When dry, the fine aggregate for Portland cement concrete shall conform to the following gradation requirements:

<i>Sieve Size</i>	<i>% Passing by Weight</i>	
	<i>Minimum</i>	<i>Maximum</i>
No. 4		100
No. 8	95	100
No. 30	20	50
No. 100	0	2

BASIS OF ACCEPTANCE. The provisions of NYSDoT specification para 703-01, Fine Aggregates, shall apply.

BID FORM

COMPANY NAME: _____

**PART I
UNCLASSIFIED SELECT FILL**

The distance from the source of supply to the job site will affect the haul cost. The mileage to be allowed from plant to destination is the actual minimum mileage over properly conditioned roads, as determined by the Superintendent. For estimating purposes only, this mileage delivery cost **per ton** from plant to destination will be determined for each mile from the material source to the center of the project, subject to change.

The Jefferson County Purchasing Department will accept sealed bids for furnishing unclassified borrow and select borrow materials, in accordance with this proposal and the most recent "*Standard Specifications for Construction and Materials*" of the New York State Department of Transportation and all addenda. Payments shall be made for requested services or materials measured in English units.

The bidding party shall be responsible for all aspects of mine operation, including permits and insurance. Bidder shall advise as to the type of material proposed to be furnished:

Pursuant to bid and specifications, the undersigned will furnish the annual requirements of the following materials for the prices set forth for each item: The quantities for each item are on an AS NEEDED basis, and shall be paid **per ton**, where scales are available, or on a **per cubic yard** basis as loaded in pre-measured truck boxes where scales are not available.

Subproject	Item	Loaded (TON) <u>or</u>	Buyer	
			Loaded (CY)	to Load (CY)
203-2.01	Subgrade Area Material	=====	_____	_____
203.05/203.06	Select Borrow & Select Fill	=====	_____	_____
203.07/203.21	Select Granular Fill & Select Structure Fill	=====	_____	_____
203.20	Select Granular Subgrade	=====	_____	_____
203.01	Shotrock	=====	_____	_____
620.03	Light Stone Fill	=====	_____	_____
620.04	Medium Stone Fill	=====	_____	_____
620.05	Heavy Stone Fill	=====	_____	_____
613.01	Screened Topsoil	=====	_____	_____
613.02	Stripped Topsoil (unscreened)	=====	_____	_____

All Prices are FOB Plant
conversion: 1cy pit measure = 1.20 ton limestone; = 1.35 ton gravel

BID FORM

COMPANY NAME: _____

**PART II
CRUSHED STONE & GRAVEL**

The distance from the source of supply to the job site will affect the haul cost. The mileage to be allowed from plant to destination is the actual minimum mileage over properly conditioned roads, as determined by the Superintendent. For estimating purposes only, this mileage delivery cost **per ton** from plant to destination will be determined for each mile from the material source to the center of the project, subject to change.

Bidder shall advise as to the type of material proposed to be furnished:

Pursuant to bid and specifications, the undersigned will furnish the annual requirements of the following materials for the prices set forth for each item:

The quantities for each item are on an AS NEEDED basis.

	PER TON	<u>OR</u>	PER YARD
Crushed Limestone or Stone Dust	_____	_____	
Graded Crushed Stone: Size 1A	_____	_____	
Size 1B	_____	_____	
Size 1ST	_____	_____	
Size 1 or 2	_____	_____	
Size 1 & 2 Blend	_____	_____	
Size 1A & 1 Blend	_____	_____	
Size 3 or 4	_____	_____	
Crushed Limestone: Type 2	_____	_____	
or			
Crushed Gravel Type 2A	_____	_____	
Type 3	_____	_____	
Type 3JC	_____	_____	

All Prices are FOB Plant
conversion: 1cy pit measure = 1.20 ton limestone; = 1.35 ton gravel

BID FORM

COMPANY NAME: _____

**PART III
SNOW AND ICE ABRASIVE AND WASHED SAND**

The distance from the source of supply to the job site will affect the haul cost. The mileage to be allowed from plant to destination is the actual minimum mileage over properly conditioned roads, as determined by the Superintendent. For estimating purposes only, this mileage delivery cost **per ton** from plant to destination will be determined for each mile from the material source to the center of the project, subject to change.

Pursuant to bid and specifications, the undersigned will furnish the annual requirements of the following materials for the prices set forth for each item:

Price Per Ton, F.O.B. Plant

Snow & Ice Abrasive \$ _____

Washed Sand \$ _____

Attached Bid Checklist, Signature/Non-Collusive Page, and Iran Notice must be signed to complete the bid.

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BID CHECKLIST

The documents required to complete this bid are indicated below.

(X) Insurance Certificates See Exhibit A, pages F-G

(X) Iran Notice See Pages 1n-10

___ We have reviewed and have submitted the items required under the Mandatory Submission Requirements.

___ The Bid Page(s), Signature/Non-Collusive Page, and Iran Notice are completed and included.

___ Deviations are noted and explained.

___ Insurance Certificates are enclosed if required.

WAIVER OF IMMUNITY / NON-COLLUSIVE BIDDING CERTIFICATE PURSUANT TO SECTION 103-D OF THE NEW YORK STATE GENERAL MUNICIPAL LAW

A. By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid, each party thereto certifies as to its own organizations, under penalty of perjury, that to the best of knowledge and belief:

1. The prices in this bid have been arrived at independently without collusion, consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor.
2. Unless otherwise required by law, the prices which have been quoted in this bid have not knowingly been disclosed by the bidder and will not knowingly be disclosed by the bidder, directly or indirectly, prior to opening, to any bidder or to any competitor.
3. No attempt has been made or will be made by the bidder to induce any other person, partnership or corporation to submit or not to submit a bid for the purpose of restricting competition.

A bid shall not be considered for award nor shall any award be made where 1, 2, and 3 above have not been complied with; provided, however, that in any case the bidder cannot make to foregoing certification, the bidder shall so state and shall furnish with the bid a signed statement which sets forth in detail the reasons thereof. Where 1, 2, and 3 above have not been complied with, the bid shall not be considered for any award nor shall any award be made unless the head of the Purchasing Unit to the political subdivision, public department, agency or official thereof to which the bid is made, or his designee, determines that such disclosure was not made for the purpose of restricting competition.

The fact that a bidder (a) has published price lists, rates, or tariffs covering items being procured, (b) has informed prospective customer of proposed or pending publications of new or revised price lists for such items, or (c) has sold the same items to other customers at the same prices being bid, does not constitute, without more, a disclosure within the meaning of paragraph "A" above.

B. Any bid hereafter made to any political subdivision of the state or any public department, agency or official thereof by a corporate bidder for work or services performed or to be performed or goods sold or to be sold, where competitive bidding is required by statute, rule, regulation, local law, and where such bid contains the certification referred to in paragraph "A" of this section, shall be deemed to have been authorized by the Board of Directors of the bidder, and such authorization shall be deemed to include the submission of the bid and the inclusion therein of the certificate as to non-collusion as the act and deed of the corporation.

SIGNATURE/NON-COLLUSIVE PAGE ON REVERSE MUST BE SIGNED TO COMPLETE THE BID.

SIGNATURE/NON-COLLUSIVE PAGE

The undersigned proposes to furnish products or services to specifications included in this bid document, at the price(s) set forth, as required to meet the County's needs. Any deviation to the specifications must be noted on the bid form and fully explained or the deviations will not be considered part of the bid.

Deviations: Yes _____ No _____

By signing below I am certifying that I fully understand the complete requirements of the bid and agree to the non-collusive certification on the reverse of this page and additional documents as specified on the bid checklist. Bidder hereby acknowledges receipt of all addenda pertaining to this bid which are made part of the original bid specifications.

_____ COMPANY NAME
_____ ADDRESS (Principal Office)
_____ CITY, STATE, ZIP CODE
_____ AREA CODE/TELEPHONE NUMBER
_____ FAX NUMBER
_____ AUTHORIZED SIGNATURE
_____ PRINTED NAME
_____ TITLE
_____ DATE
_____ ADDRESS (Local Office)
_____ CITY, STATE, ZIP CODE
_____ AREA CODE/TELEPHONE NUMBER
_____ FAX NUMBER
_____ E-MAIL ADDRESS

Check One: Corporation _____ Partnership _____ Individual _____

Incorporated under the laws of the State of _____

Federal Identification # _____

State if authorized to do business in the State of New York: Yes _____ No _____

Names and Addresses of Partners:

Iranian Energy Sector Divestment

Contractor hereby represents that said Contractor is in compliance with New York State General Municipal Law Section 103-g entitled “Iranian Energy Sector Divestment”, in that said Contractor has not:

- a. Provided goods and services of \$20 Million or more in the energy sector of Iran including but not limited to the provision of oil or liquefied natural gas tankers or products used to construct or maintain pipelines used to transport oil or liquefied natural gas for the energy sector of Iran; or
- b. Acted as a financial institution and extended \$20 Million or more in credit to another person for forty-five days or more, if that person’s intent was to use the credit to provide goods or services in the energy sector in Iran.

Any Contractor who has undertaken any of the above and is identified on a list created pursuant to Section 165-a (3)(b) of the New York State Finance Law as a person engaging in investment activities in Iran, shall not be deemed a responsible Bidder pursuant to Section 103 of the New York State General Municipal Law.

Except as otherwise specifically provided herein, every Contractor submitting a bid in response to this Request for Bids must certify and affirm the following under penalties of perjury:

- a. “By submission of this bid, each Bidder and each person signing on behalf of any Bidder certifies, and in the case of a joint bid, each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief, that each Bidder is not on the list created pursuant to NYS Finance Law Section 165-a (3)(b).”

Jefferson County will accept this statement electronically in accordance with the provisions of Section 103 of the General Municipal Law.

Except as otherwise specifically provided herein, any Bid that is submitted without having complied with subdivision (a) above, shall not be considered for award. In any case where the Bidder cannot make the certification as set forth in subdivision (a) above, the Bidder shall so state and shall furnish with the bid a signed statement setting forth in detail the reasons therefore. The County reserves its rights, in accordance with General Municipal Law Section 103-g to award the Bid to any Bidder who cannot make certification, on a case-by-case basis under the following circumstances.

1. The investment activities in Iran were made before April 12, 2012, the investment activities in Iran have not been expanded or renewed after April 12, 2012, and the Bidder has adopted, publicized and is implementing a formal plan to cease the investment activities in Iran and to refrain from engaging in any new investments in Iran; or
2. The County of Jefferson has made a determination that the goods or services are necessary for the County to perform its functions and that, absent such an exemption, the County of Jefferson would be unable to obtain the goods or services for which the Bid is offered. Such a determination shall be made by the County in writing and shall be a public document.

Attachment
Certification Pursuant to Section 103-g
of the New York State
General Municipal Law

- A. By submission of this bid, each Bidder and each person signing on behalf of any Bidder certifies, and in the case of a joint bid, each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each Bidder is not on the list created pursuant to paragraph (b) of subdivision 3 of Section 165-a of the New York State Finance Law.
- B. A Bid shall not be considered for award, nor shall any award be made where the condition set forth in Paragraph A above has not been complied with; provided, however, that in any case the Bidder cannot make the foregoing certification set forth in Paragraph A above, the Bidder shall so state and shall furnish with the bid a signed statement which sets forth in detail the reasons therefore. Where Paragraph A above cannot be complied with, the Purchasing Unit to the political subdivision, public department, agency or official thereof to whom the bid is made, or his designee, may award a bid, on a case by case basis under the following circumstances:
 - 1. The investment activities in Iran were made before April 12, 2012, the investment activities in Iran have not been expanded or renewed after April 12, 2012, and the Bidder has adopted, publicized and is implementing a formal plan to cease the investment activities in Iran and to refrain from engaging in any new investments in Iran; or
 - 2. The political subdivision makes a determination that the goods or services are necessary for the political subdivision to perform its functions and that, absent such an exemption, the political subdivision would be unable to obtain the goods and services for which the contract is offered. Such a determination shall be made in writing and shall be a public document.

Signature

Title

Date

Company Name