



STATE OF NEW YORK  
OFFICE OF GENERAL SERVICES  
DESIGN AND CONSTRUCTION GROUP  
THE GOVERNOR NELSON A. ROCKEFELLER  
EMPIRE STATE PLAZA  
ALBANY, NY 12242



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**ADDENDUM NO. 1 TO PROJECT NO. 44709**

**CONSTRUCTION WORK, PLUMBING WORK  
REPLACE WATER MAIN, ANNEX  
CLINTON CORRECTIONAL FACILITY  
1074 ROUTE 374, DANNEMORA, CLINTON COUNTY, NY**

March 13, 2014

**NOTE:** This Addendum forms a part of the Contract Documents. Insert it in the Project Manual.  
Acknowledge receipt of this Addendum in the space provided on the Bid Form.

**BIDDING REQUIREMENTS**

1. DOCUMENT 001114 ADVERTISEMENT FOR BIDS: A second Site Visit is scheduled for March 18, 2014 at 10:00 AM at Dannemora Field Office, Mountain View Road, Dannemora, NY. Prospective bidders are urged to visit the site at this time. Prospective bidders or their representatives attending the pre-bid site visit will not be admitted on facility grounds without proper photo identification. Note that parking restrictions and security provisions will apply and all vehicles will be subject to search. Phone the office of Bruce Daley, (518) 492-2200 Ext.105 a minimum of 72 hours in advance of the date to provide the names of those who will attend the pre-bid site visit.

**GENERAL REQUIREMENTS**

1. Page 011000 – 1, Paragraph 1.04(A): Change “240 days” to “300 days”.
2. Page 011000 – 2, Replace the existing paragraph 1.06(A) with the following:
  - A. Do not perform exterior Work between December 1<sup>st</sup> and April 15<sup>th</sup>, unless approved otherwise, in writing, by the Director.
    1. The above period will not be included in the number of days specified for completion of the Work.

**SPECIFICATION GROUP, CONSTRUCTION**

1. Page 331101 – 1, Change subparagraph (2.02)(A)(1) to read:
  1. The working pressure of the water system is approximately 120 psi. The pressure rating of the pipe shall be in accordance with the pipe specified.
2. Page 321216-1, Change subparagraphs 1.04(A)(1) through 1.04(A)(3) to read:

1. Top Course: **\$85** per ton.
  2. Binder Course: **\$80** per ton.
  3. Base Course: **\$80** per ton.
3. Page 312316 – 2, Add the following paragraph to Article 1.06:
- B. Sound bedrock will be encountered for the waterline installation. For bidding purposes it shall be assumed that 200 cubic yards of trench rock removal and 400 cubic yards of General Rock removal will be required for the Construction Contract, and that 10 cubic yards of trench rock removal and 20 cubic yards of General Rock removal will be required for the Plumbing Contract.

The volume of rock removal shall be determined in accordance with specification section 312316, and any quantities of rock remaining from the volumes specified above will be owed as a credit change order to the state at project completion.

### **SPECIFICATION GROUP, PLUMBING**

1. Section 310000 Earthwork: Add the attached section to the project manual.
2. Section 310101 Site Restoration: Add the attached section to the project manual.
3. Section 312316 Rock Removal: Add the attached section to the project manual.
4. Section 321216 Asphalt Concrete Paving: Add the attached section to the project manual.

### **CONSTRUCTION WORK DRAWINGS**

1. Drawing No. G-002: Modify Note 52 to read as follows:
  52. Sound bedrock will be encountered for the waterline installation. For bidding purposes it shall be assumed that 200 cubic yards of trench rock removal and 400 cubic yards of General Rock removal will be required for the Construction Contract, and that 10 cubic yards of trench rock removal and 20 cubic yards of General Rock removal will be required for the Plumbing Contract. The volume of rock removal shall be determined in accordance with specification section 312316, and any quantities of rock remaining from the volumes specified above will be owed as a credit change order to the state at project completion
2. Revised Drawings:
  - a. Drawing No. C-102, noted “REVISED DRAWING 03/10/2014” accompany this Addendum and supersede the same numbered originally issued drawings.
3. Drawing No. G-003, Construction Phasing Sequencing Notes: Add Notes 4 and 5 to read as follows:
4. The Construction Contract shall include furnishing and installing four (4) additional 12” resilient wedge gate valves to be installed in locations as determined by the Director’s Representative for

purposes of phasing the work and for allowing for work shutdown during the restricted work period.

5. All water mains actually installed shall be disinfected, tested, and fully activated with potable water prior to commencement of the restricted work period. No installed water main shall be left un-activated through the restricted work period.

**PLUMBING WORK DRAWINGS**

1. Drawing No. G-002: Modify Note 50 to read as follows:

50. Sound bedrock will be encountered for the waterline installation. For bidding purposes it shall be assumed that 200 cubic yards of trench rock removal and 400 cubic yards of General Rock removal will be required for the Construction Contract, and that 10 cubic yards of trench rock removal and 20 cubic yards of General Rock removal will be required for the Plumbing Contract. The volume of rock removal shall be determined in accordance with specification section 312316, and any quantities of rock remaining from the volumes specified above will be owed as a credit change order to the state at project completion

2. Revised Drawings:
  - a. Drawing No. P-409, noted "REVISED DRAWING 03/10/2014" accompany this Addendum and supersede the same numbered originally issued drawings.

**END OF ADDENDUM**

Margaret F. Larkin  
Acting Executive Director

## **SECTION 310000**

### **EARTHWORK**

#### **PART 1 GENERAL**

##### **1.01 RELATED WORK SPECIFIED ELSEWHERE**

- A. Cast-In-Place Concrete: Section 033001.
- B. Site Restoration: Section 310101.
- C. Rock Removal: Section 312316.
- D. Topsoil: Section 329120.
- E. Seeding: Section 329219.

##### **1.02 DEFINITIONS**

- A. The following terms shall have the meanings ascribed to them in this Article, wherever they appear in this Section.
  - 1. Earth Excavation: The removal of all surface and subsurface material not classified as rock (as defined below).
  - 2. Rock: Limestone, sandstone, shale, granite, and similar material in solid beds or masses in its original or stratified position which can be removed only by blasting operations, drilling, wedging, or use of pneumatic tools, and boulders with a volume greater than 1.0 cu yd. Concrete building foundations and concrete slabs, not indicated, with a volume greater than 1.0 cu yd shall be classified as rock.
    - a. Limestone, sandstone, shale, granite, and similar material in a broken or weathered condition which can be removed with an excavator or backhoe equipped with a bucket with ripping teeth or any other style bucket shall be classified as earth excavation.
    - b. Masonry building foundations, whether indicated or not, shall be classified as earth excavation.
  - 3. Subgrade Surface: Surface upon which subbase or topsoil is placed.
  - 4. Subbase: Select granular material or subbase course Type 2 which is placed immediately beneath pavement or concrete slabs.
  - 5. Maximum Density: The dry unit weight in pounds per cubic foot of the soil at "Optimum Moisture Content" when determined by ASTM D 698 (Standard Proctor).
  - 6. Landscaped Areas: Areas not covered by structures, walks, roads, paving, or parking.
  - 7. Unauthorized Excavation: The removal of material below required elevation indicated on the Drawings or beyond lateral dimensions indicated or specified without specific written direction by the Director's Representative.

8. Grading Limit Line (Shown on Drawings): Limits of grading, excavations and filling required for the work of this contract. Unless specifically noted otherwise, the Grading Limit Line and Contract Limit Line shall be considered the same.

### **1.03 SUBMITTALS**

- A. Product Data:
  1. Filter Fabric: Manufacturer's catalog sheets, specifications, and installation instructions.
  
- B. Samples: Submit samples as follows. Take the samples in the presence of the Director's Representative, and submit to the Director's Representative the laboratory test results for gradation, proctors and soundness tests, when required. These tests shall be performed in accordance with ASTM standards, shall be performed and signed by a certified soils laboratory, and shall be submitted as part of the original submittal. At a minimum the samples taken shall be of the following quantities:
  1. Select Granular Material: 50 - 60 lb. (Two Samples).
  2. Subbase Course Type 2: 50 - 60 lb. (Two Samples).
  3. Selected Fill: 40 - 50 lb.
  4. Cushion Material: 30 lb.
  5. Crushed Stone: 30 lb
  
- C. Quality Control Submittals:
  1. Excavation Procedure: Submit a lay out drawing or detailed outline of intended excavation procedure for the Director's information. This submittal will not relieve the Contractor of responsibility for the successful performance of intended excavation methods.
  2. Subbase Materials: Name and location of source and the DOT Source Number. If the material is not being taken from an approved DOT Source the results of the gradation and soundness tests performed by an ASTM certified soils laboratory will be required.
  3. Other Aggregates: Name and location of source and soil laboratory test results.

### **1.04 PROJECT CONDITIONS**

- A. Protect existing trees and plants during performance of the Work unless otherwise indicated. Box trees and plants indicated to remain within the grading limit line with temporary steel fencing or solidly constructed wood barricades as required. Protect root systems from smothering. Do not store excavated material, or allow vehicular traffic or parking within the branch drip line. Restrict foot traffic to prevent excessive compaction of soil over root systems.
  
- B. Cold Weather Requirements: When freezing temperatures are predicted, do not excavate to final required elevations for pipe, conduit or equipment requiring concrete work unless concrete can be placed immediately. Retain enough earth over the bottom elevation of excavations to prevent frost penetration.

## PART 2 PRODUCTS

### 2.01 MATERIALS

- A. Select Granular Material: Stockpiled, sound, durable, sand, gravel, stone, or blends of these materials, free from organic and other deleterious materials. Comply with the gradation and material requirements specified below:

Sieve		Percent Passing
Sieve Size	Size opening (mm)	
2 inch	50.8	100
1/4 inch	6.35	30-65
No. 40	0.425	5-40
No. 200	0.075	0-10

1. Magnesium Sulfate Soundness Test: 20 percent maximum loss by weight after four test cycles.
  2. Plasticity Index: The plasticity index of the material passing the No. 40 mesh sieve shall not exceed 5.0.
  3. Elongated Particles: Not more than 30 percent, by weight, of the particles retained on a 1/2 inch sieve shall consist of flat or elongated particles. A flat or elongated particle is defined as one which has its greatest dimension more than three times its least dimension.
- B. Subbase Course Type 2: Stockpiled, crushed ledge rock or approved blast furnace slag. Comply with the gradation and material requirements specified below:

Sieve		Percent Passing
Sieve Size	Size opening (mm)	
2 inch	50.8	100
1/4 inch	6.35	25-60
No. 40	0.425	5-40
No. 200	0.075	0-10

1. Magnesium Sulfate Soundness Test: 20 percent maximum loss by weight after four test cycles.
  2. Plasticity Index: The plasticity index of the material passing the No. 40 mesh sieve shall not exceed 5.0.
  3. Elongated Particles: Not more than 30 percent, by weight, of the particles retained on a 1/2 inch sieve shall consist of flat or elongated particles. A flat or elongated particle is defined as one which has its greatest dimension more than three times its least dimension.
- C. Selected Fill: Sound, durable, sand, gravel, stone, or blends of these materials, free from organic and other deleterious materials. Comply with the gradation requirements specified below:

Sieve		Percent Passing
Sieve Size	Size opening (mm)	
4 inch	101.6	100
No. 40	0.425	0-70
No. 200	0.075	0-15

D. Suitable Material (Fill and Backfill for Landscaped Areas): Material consisting of mineral soil (inorganic), blasted or broken rock and similar materials of natural or man-made origin, including mixtures thereof. Maximum particle size shall not exceed 2/3 of the specified layer thickness prior to compaction. NOTE: Material containing cinders, industrial waste, sludge, building rubble, land fill, muck, and peat shall be considered unsuitable for fill and backfill, except topsoil and organic silt may be used as suitable material in landscaped areas provided it is placed in the top layer of the subgrade surface.

E. Cushion Material: Shall consist of clean, hard, durable, uncoated particles, free from lumps of clay and all deleterious substances and shall meet the following gradation requirements:

Sieve Size		Percent Passing
Sieve Size	Size opening (mm)	
1/4 inch	6.35	100
No. 60	0.25	0-35
No. 100	0.15	0-10

F. Item B-12: Equal Blend of No.1 and No. 2 Crushed Stone that complies with material requirements of DOT Article 703-02, crushed stone only.

Sieve		Percent Passing
Sieve Size	Size opening (mm)	
1-1/2 inch	38.1	100
1 inch	25.4	95-100
1/2 inch	12.7	45-60
1/4 inch	6.35	0-15

G. No. 2 Coarse Aggregate: Crushed Stone that complies with material requirements of DOT Article 703-02 and meets the following gradation.

Sieve		Percent Passing
Sieve Size	Size opening (mm)	
1-1/2 inch	38.1	100
1 inch	25.4	90-100
1/2 inch	12.7	0-15

- H. Marker Tape: FL Industries Blackburn/Holub's Type YT6, or Seton Nameplate Corporations Type 6 ELE, imprinted with message suited to item buried below.

## **2.02 GEOTECHNICAL FABRICS**

- A. Filter Fabric (GeoTextile)
  - 1. Drainage and Erosion Control: Maccaferri MacTex MX140 & MX155, Mirafi 140N & 160N, Fiberweave 403 & 404 or equivalent.
  - 2. Separation for foundation drains, underdrains, undercuts: GeoTex 801, Contech Construction Products Inc. C-180, Synthetic Industries Geotex 250ST & 315ST, Mirafi Geolon HP570 & HP1500 or equivalent.
  - 3. Separation/Stabilization beneath pavements: Bonded Fibers Products PN080, Maccaferri Gabions MacTex MX275 & 340, Mirafi 160N & 180N or equivalent.

## **2.03 BRICK AND MORTAR**

- A. Manhole Brick: Standard size, ASTM C 32, Grade MS.
- B. Mortar Materials: Dry packaged, proportioned for Type M unit masonry mortar, complying with ASTM C 387.

## **PART 3 EXECUTION**

### **3.01 CLEARING AND GRUBBING**

- A. Clear and grub the site within the Grading Limit Line (GLL) of trees, shrubs, brush, other prominent vegetation, debris, and obstructions except for those items indicated to remain. Completely remove stumps and roots protruding through the ground surface.
- B. Fill depressions caused by the clearing and grubbing operations in accordance with the requirements for filling and backfilling, unless further excavation is indicated.

### **3.02 UNDERGROUND UTILITIES**

- A. Locate existing underground utilities prior to commencing excavation work. Determine exact utility locations by hand excavated test pits. Support and protect utilities to remain in place.
- B. Do not interrupt existing utilities that are in service until temporary or new utilities are installed and operational.
- C. Utilities to remain in service: Shall be re-routed as shown on the Contract Drawings.

- D. Utilities located outside the limits specified above may be abandoned in place provided their ends are adequately plugged as described below.
  - 1. Permanently close open ends of abandoned underground utilities exposed by excavations, which extend outside the limits of the area to be excavated.
  - 2. Close open ends of metallic conduit and pipe with threaded galvanized metal caps or plastic plugs or other approved method for the type of material and size of pipe. Do not use wood plugs.
  - 3. Close open ends of concrete and masonry utilities with concrete or flowable fill.

### **3.03 EXCAVATION**

- A. Excavate earth as required for the Work.
- B. Install and maintain all erosion and sedimentation controls during all earthwork operations as specified on the Contract Drawings or as directed by local officials. If the erosion and sedimentation controls specified by the local officials are more stringent than those specified on the Contract Drawings contact the Director's Representative.
- C. Maintain sides and slopes of excavations in a safe condition until completion of backfilling. Comply with Code of Federal Regulations Title 29 - Labor, Part 1926 (OSHA).
  - 1. Trenches: Deposit excavated material on one side of trench only. Trim banks of excavated material to prevent cave-ins and prevent material from falling or sliding into trench. Keep a clear footway between excavated material and trench edge. Maintain areas to allow free drainage of surface water.
- D. Stockpile excavated materials classified as suitable material where directed, until required for fill. Place, grade, and shape stockpiles for proper drainage as approved by the Director's Representative.
- E. Pipe Trenches and/or Bell and Spigot Pipe Trenches: Open only enough trench length to facilitate laying pipe sections. Unless otherwise indicated on the Drawings, excavate trenches approximately 24 inches wide plus the outside pipe diameter, equally divided on each side of pipe centerline. Cut trenches to cross section, elevation, profile, line, and grade indicated. Accurately grade and shape trench bottom for uniform bearing of pipe.
  - 1. Trench in Rock: Excavate an additional 6 inches below bottom of pipe for bed of cushion material under the piping.
- F. Conduit, Cable, Tubing and Piping (other than Bell and Spigot): Provide sufficient trench width for installation and to accommodate special backfill when specified.
- G. Unauthorized Excavations: Unless otherwise directed, backfill unauthorized excavation with compacted select granular material without altering the required elevation.

- H. Notify the Director's Representative upon completion of excavation operations. Do not proceed with the Work until the excavation is inspected and approved. Inspection of the excavation by the Director's Representative will be made on 3 working days notice.

### **3.04 DEWATERING**

- A. Prevent surface and subsurface water from flowing into excavations and trenches and from flooding the site and surrounding area.
- B. Do not allow water to accumulate in excavations or trenches. Remove water from all excavations immediately to prevent softening of foundation bottoms, undercutting footings, and soil changes detrimental to the stability of subgrades and foundations. Furnish and maintain pumps, sumps, suction and discharge piping systems, and other system components necessary to convey the water away from the Site.
- C. Convey water removed from excavations, and rain water, to collecting or run-off area. Cut and maintain temporary drainage ditches and provide other necessary diversions outside excavation limits for each structure. Do not use trench excavations as temporary drainage ditches.
- D. Provide temporary controls to restrict the velocity of discharged water as necessary to prevent erosion and siltation of receiving areas.

### **3.05 PLACING FILTER FABRIC**

- A. Place and overlap filter fabric in accordance with the manufacturer's installation instructions, unless otherwise shown.
- B. Cover tears and other damaged areas with additional filter fabric layer extending 3 feet beyond the damage.
- C. Do not permit traffic or construction equipment directly on filter fabric.
- D. Backfill over filter fabric within two weeks after placement. Backfill in accordance with the fabric manufacturer's instructions and in a manner to prevent damage to the fabric.

### **3.06 PLACING FILL AND BACKFILL**

- A. Surface Preparation of Fill Areas: Strip topsoil, remaining vegetation, and other deleterious materials prior to placement of fill. Remove all asphalt pavement in its entirety from areas requiring the placement of fill or break up old pavements to a maximum size of four inches. Prior to placement of fill, smooth out and compact areas where wheel rutting has occurred due to stripping or earthwork operations.

- B. Excavations: Backfill as promptly as practicable, but only after approval by the Director's Representative. Do not backfill with excavated material unless it meets the requirements of this Section.
- C. Place backfill and fill materials in layers not more than 6 inches thick in loose depth unless otherwise specified. Before compaction, moisten or aerate each layer as necessary to facilitate compaction to the required density. Do not place backfill or fill material on surfaces that are muddy, frozen, or covered with ice.
- D. Under Exterior Concrete Slabs:
  - 1. Up to Subgrade Surface Elevation: Place selected fill when fill or backfill is required.
  - 2. Subbase Material: Place 12 inches of select granular material over subgrade surface.
- E. Under Pavements and Walks:
  - 1. Up to Subgrade Surface Elevation: Place selected fill when fill or backfill is required.
  - 2. Subbase Material: Place as indicated.
- F. Landscaped Areas: Place suitable material when required to complete fill or backfill areas up to subgrade surface elevation. Do not use material containing rocks over four inches in diameter within the top 12 inches of suitable material.
- G. Copper Tubing in Trenches: Place cushion material a minimum of six inches deep under pipe, six inches on both sides, and 4 inches over top of pipe. Complete balance of backfill as specified.

### **3.07 COMPACTION**

- A. All materials with exception of open graded stone (No. 2 Crushed Stone, No. 1 Crushed Stone, Item B-12, etc.):
  - 1. Compact each layer of fill and backfill for the following area classifications to the percentage of maximum density specified below and at a moisture content suitable to obtain the required densities, but at not less than three percent drier or more than two percent wetter than the optimum content as determined by ASTM D 698 (Standard Proctor) or 1557 (Modified Proctor).
    - a. Concrete Slabs and Steps: 95 percent.
    - b. Landscaped Areas: 90 percent.
    - c. Pavements and Walks: 95 percent.
    - d. Pipe Bedding: 95 percent. If a compacted layer fails to meet the specified percentage of maximum density, the layer will be re-compacted and retested. If compaction cannot be achieved the material/layer will be removed and replaced. No additional material may be placed over a compacted layer until the specified density is achieved
- B. Open graded Stone (Item B-12, No. 1 crushed stone, etc): Place material in maximum twelve inch lifts. Each lift shall be raked smooth and compacted

through several passes of a walk behind vibratory roller. Compaction Testing is **not** required.

### **3.08 GRADING**

- A. Rough Grading: Trim and grade area within the Grading Limit Line and excavations outside the limit line, required by this Contract, to a level of four inches below the finish grades indicated unless otherwise specified herein or where greater depths are indicated. Provide smooth uniform transition to adjacent areas.
- B. Finish Grading: Finish surfaces free from irregular surface changes, and as follows:
  - 1. Grassed Areas: Finish areas to receive topsoil to within 1 inch above or below the required subgrade surface elevations.
  - 2. Walks and Pavements: Place and compact subbase material as specified. Shape surface of areas to required line, grade and cross section, with the finish surface not more than 1/2 inch above or below the required subbase elevation.
  - 3. Building Slabs: Grade subbase material smooth and even, free of voids, compacted as specified to within 1/4 inch above or below required subbase elevation.

### **3.09 RESTORATION**

- A. Restore pavements, walks, curbs, lawns, and other exterior surfaces damaged during performance of the Work to match the appearance and performance of existing corresponding surfaces as closely as practicable.
- B. Topsoil and seed or sod damaged lawn areas outside the GLL and new lawn areas inside the GLL. Water as required until physical completion of the Work.

### **3.10 DISPOSAL OF EXCESS AND UNSUITABLE MATERIALS**

- A. Remove from State property and dispose of excess and unsuitable materials, including materials resulting from clearing and grubbing and removal of existing improvements.

### **3.11 FIELD QUALITY CONTROL**

- A. Compaction Testing: Notify the Director's Representative at least 3 working days in advance of all phases of filling and backfilling operations. Compaction testing will be performed by the Director's Representative to ascertain the compacted density of the fill and backfill materials. Compaction testing will be performed on certain layers of the fill and backfill as determined by the Director's Representative. If a compacted layer fails to meet the specified percentage of maximum density, the layer shall be re-compacted and will be retested. No additional material may be placed over a compacted layer until the specified density is achieved.

**3.12 PROTECTION**

- A. Protect graded areas from traffic and erosion, and keep them free of trash and debris.

**END OF SECTION**

## **SECTION 310101**

### **SITE RESTORATION**

#### **PART 1 GENERAL**

##### **1.01 QUALITY ASSURANCE**

- A. Provide prepackaged seed readily available to the public with quality and purity equal to product of O.M. Scotts and Son, Marysville, OH 43041. On-the-job or made-to-order mixes will not be accepted.

##### **1.02 DELIVERY STORAGE AND HANDLING**

- A. Deliver fertilizer in manufacturer's standard size bags or cartons showing weight, analysis, and the name of the manufacturer. Store as approved by Director's Representative.
- B. Store all seed at the site in a cool dry place as approved by the Director's Representative. Replace any seed damaged during storage.

##### **1.03 SCHEDULING**

- A. Time For Seeding: Sow grass seed between April 1 and May 15th or between August 15th and October 15th, except as otherwise approved in writing by the Director.

#### **PART 2 PRODUCTS**

##### **2.01 TOPSOIL**

- A. Source: Provide topsoil from existing stockpiles stripped from the project site and approved by the Director's Representative.

##### **2.02 FERTILIZER**

- A. Fertilizer: Mixed commercial fertilizers shall contain total nitrogen, available phosphoric acid and soluble potash in the ratio of 10-6-4 (50% N/UF). 50% of total nitrogen shall be derived from ureaform furnishing a minimum of 3.5% water insoluble nitrogen (3.5% WIN). The balance of the nitrogen shall be present as methylene urea, water-soluble urea, nitrate and ammoniacal compounds.
- B. Other fertilizers meeting DOT Specification Section 713-03 Fertilizer can be used.

##### **2.03 SEED**

- A. Furnish fresh, clean, new-crop seed mixed in the proportions specified for species and variety, and conforming to Federal and State Standards.
- B. Acceptable material in a seed mixture other than pure live seed consists of nonviable seed, chaff, hulls, live seed of crop plants and inert matter. The percentage of weed seed shall not exceed 0.1 percent by weight.
- C. All seed will be rejected if the label indicates any noxious weed seeds.
- D. Provide seed mixture equal to Scotts Pure Premium Sun and Shade North Grass Seed Mixture, comprised of the following:

<b>SEED MIXTURE</b>			
<b>AMOUNT BY WEIGHT IN MIXTURE</b>	<b>SPECIES OR VARIETY *</b>	<b>PERCENTAGE</b>	
		<b>PURITY</b>	<b>GERMINATION</b>
30 PERCENT	FENWAY RED FESCUE	97 PERCENT	80 PERCENT
30 PERCENT	ABBEY KENTUCKY BLUEGRASS BLEND	95 PERCENT	80 PERCENT
20 PERCENT	DEVINE PERENNIAL RYE	98 PERCENT	85 PERCENT
20 PERCENT	ENCHANTED PERENNIAL RYE	98 PERCENT	85 PERCENT
100 PERCENT			

\*Variety may be altered depending on availability of seed from manufacturer.

**2.04 MULCH**

- A. Dry Application, Straw: Stalks of oats, wheat, rye or other approved crops that are free of noxious weed seeds. Weight shall be based on a 15 percent moisture content.

**PART 3 EXECUTION**

**3.01 GRADING**

- A. Rough Grading: Trim and grade lawn areas within the Contract Limit to a level of 4 inches below the finish grades indicated unless otherwise specified herein or where greater depths are indicated. Provide smooth uniform transition to adjacent areas.
- B. Finish Grading: Finish surfaces free from irregular surface changes, and as follows:
  - 1. Grassed Areas: Finish areas to receive topsoil to within 1 inch above or below the required subgrade surface elevations.

**3.02 SPREADING TOPSOIL**

- A. Perform topsoil spreading operations only during dry weather.

- B. To insure a proper bond with the topsoil, harrow or otherwise loosen the subgrade to a depth of 3 inches before spreading topsoil.
- C. Spread topsoil directly upon prepared subgrade to a minimum depth measuring 4 inches after natural settlement in areas to be seeded. Smooth out unsightly variations, bumps, ridges, and depressions that will hold water. Remove stones, litter, or other objectionable material. Finished surfaces shall conform to the contour lines and elevations indicated on the drawings or fixed by the Director's Representative.

### **3.03 PREPARATION FOR SEEDING**

- A. Seed Bed: Scarify soil to a depth of 2 inches in compacted areas. Smooth out unsightly variations, bumps, ridges, and depressions that will hold water. Remove stones, litter, or other objectionable material.

### **3.04 FERTILIZING**

- A. Apply 10-6-4 fertilizer evenly at the rate of 40 pounds per 1000 sq ft .

### **3.05 SEEDING**

- A. Assume all risks when seed is sowed before approval of seed analysis.
- B. Do not seed when the wind velocity exceeds 5 miles per hour.
- C. Application Rate: 8 pounds per 1000 sq ft.
- D. Dry Application: Sow seed evenly by hand or seed spreader on dry or moderately dry soil.

### **3.06 MULCHING**

- A. Dry Application: Within 3 days after seeding, cover the seeded areas with a uniform blanket of straw mulch at the rate of 50 pounds per 1000 sq ft of seeded area.

### **3.07 LAWN ESTABLISHMENT**

- A. Maintain the grass at heights between 2-1/2 inches and 3-1/2 inches and include a minimum of 2 mowings.
- B. Water and protect all seeded areas until final acceptance of the lawn.

### **3.08 FINAL ACCEPTANCE**

- A. Final acceptance of seeded areas will be granted when a uniform stand of acceptable grass is obtained, with a minimum of 95 percent coverage. Portions

of the seeded areas may be accepted at various times at the discretion of the Director's Representative.

- B. Unacceptable seeded areas, dry application: Reseed as specified and fertilized at one-half the specified rate.
- C. Once accepted, the State will assume all maintenance responsibilities.

**END OF SECTION**

## **SECTION 312316**

### **ROCK REMOVAL**

#### **PART 1 GENERAL**

##### **1.01 RELATED WORK SPECIFIED ELSEWHERE**

- A. Earthwork: Section 310000.

##### **1.02 REFERENCES**

- A. Comply with the applicable requirements of the Code of Federal Regulations Title 29 - Labor, Part 1926 Safety and Health Regulations for Construction (OSHA).

##### **1.03 DEFINITIONS**

- A. Rock: Limestone, sandstone, shale, granite, and similar material in solid beds or masses in its original or stratified position which can be removed only by blasting operations, drilling, wedging, or use of pneumatic tools, and boulders with a volume greater than 1.0 cu yd. Concrete building foundations and concrete slabs, not indicated, with a volume greater than 1.0 cu yd shall be classified as rock.
  - 1. Limestone, sandstone, shale, granite, and similar material in a broken or weathered condition which can be removed with an excavator or backhoe equipped with a bucket with ripping teeth or any other style bucket shall be classified as earth excavation.
  - 2. Masonry building foundations, whether indicated or not, shall be classified as earth excavation.
- B. Unauthorized Rock Removal:
  - 1. The removal of any rock prior to performing the measurements/work required to determine quantities (Paragraph 3.01 B).
  - 2. The removal of material below required elevation indicated on the Drawings or beyond lateral dimensions indicated or specified without specific written direction by the Director.
- C. General Rock Removal: Quantities of rock removal will be paid for as General Rock Removal when:
  - 1. The width of rock removed, as per measurement limits, is greater than or equal to the total excavation depth required.
  - 2. Boulders removed have a volume greater than 1.0 cu yd.
- D. Trench and Pier Rock Removal: Quantities of rock removal will be paid for as Trench and Pier Rock Removal when the width of rock removed, as per measurement limits, is less than the total excavation depth required.

##### **1.04 SUBMITTALS**

- A. Rock Removal Procedure: Submit a detailed outline of intended rock removal procedure for the Director's information. This submittal will not relieve the Contractor of responsibility for the successful performance of method used.
  - 1. Where blasting is permitted, show drill hole pattern, method of blasting, explosive types, and amount of explosive load.
- B. Quality Control Submittals:
  - 1. Certificates: Competency affidavit required under Quality Assurance Article.
  - 2. Blasters Qualifications Data: Submit the following for each blaster:
    - a. Name, and employer's name, business address and telephone number.
    - b. Names and addresses of the required number of similar projects which meet the experience criteria.
- C. Measurement data for quantities of rock removal.

#### **1.05 QUALITY ASSURANCE**

- A. Blasters' Qualifications: The persons performing the blasting operations shall be personally experienced in the handling and use of explosives, shall furnish satisfactory evidence of competency in performing in a safe manner the type of blasting required, and shall have performed blasting operations on 5 similar projects.
- B. Regulatory Requirements: Obtain the proper Permit to Blast from authorities having jurisdiction before explosives are brought to the site.
- C. Certifications: Affidavit, for each blaster, certifying that blaster is competent in performing the type of blasting required.
- D. Pre-Rock Removal Conference: Before the rock removal work is scheduled to commence, a conference will be called by the Director's Representative at the site for the purpose of reviewing the Contract Documents and discussing requirements for the Work. The conference shall be attended by the Contractor's Representative and the person supervising the rock removal operations.

#### **1.06 PROJECT CONDITIONS**

- A. Blasting:
  - 1. Do not perform blasting operations within 10 feet of existing buildings or structures, except as otherwise indicated.
  - 2. Limit peak particle velocity from blasts to a maximum of \_\_\_\_\_ inches per second at adjacent structures.
  - 3. When blasting operations will interfere with the work of related contracts (if any), schedule blasts during break and lunch periods or other non-work hours.
  - 4. Keep proper daily records, including drilling logs.

- B. Sound bedrock will be encountered for the waterline installation. For bidding purposes it shall be assumed that 200 cubic yards of trench rock removal and 400 cubic yards of General Rock removal will be required for the Construction Contract, and that 10 cubic yards of trench rock removal and 20 cubic yards of General Rock removal will be required for the Plumbing Contract.

The volume of rock removal shall be determined in accordance with specification section 312316, and any quantities of rock remaining from the volumes specified above will be owed as a credit change order to the state at project completion.

## **PART 2 PRODUCTS**

### **2.01 MATERIALS**

- A. Backfill Materials and Other Related Earthwork: As specified in Section 310000.

### **2.02 EQUIPMENT**

- A. Furnish one seismograph, with manufacturer's operating instructions, to measure particle velocity during blasting operations. The seismograph shall be capable of making a permanent record of blasting operations. The seismograph shall remain the property of the Contractor.
  - 1. Deliver permanent records of blasting operations to the Director's Representative. Records will become the property of the State.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION, VERIFICATION & MEASUREMENT**

- A. Examination of Existing Property and Construction: Prior to starting rock removal Work, thoroughly examine the existing property and construction at the site and record, with notes and drawings or other documentation, existing defects and deterioration. Make this information available to the Director's Representative upon request.
- B. Prior to removing material classified as rock, excavate test pits down to rock for the purpose of verifying the presence of sound rock and determining top of rock elevations.
  - 1. Verification of Sound Rock: Demonstrate to the Director's Representative that materials to be classified as rock cannot be removed utilizing a backhoe or excavator equipped with any form of bucket, including a bucket equipped with ripping teeth.
  - 2. Required Measurements: Take elevations and measurements as required for the purpose of determining the quantities of rock removal. Record all measurement data and submit a copy of the data to the Director's Representative. Backfill test pits prior to rock removal as directed. Unless otherwise indicated or directed, excavate test pits as follows:
    - c. For Utility Lines: One pit for each 100 lin ft.

**3.02 SITE PREPARATION**

- A. Schedule a site meeting with the Director’s Representative and facility personnel to review the rock removal procedures in detail.
- B. If required, have seismographs in place and operational as well as all safety equipment and/or fencing.

**3.03 ROCK REMOVAL**

- A. Remove rock as required by the Drawings and as necessary for the installation of the Work. Make sufficient clearance, within the limits specified, for the proper execution of the Work.
- B. Volume Determination: Top of Rock Elevations established prior to the performance of any rock removal (Section 3.01 B) will be used to determine the depth of rock removed. Measurements for the base and width of the rock excavation shall be taken of the actual rock cut, as required for the Work, or to the specified measurement limits, whichever is smaller. Unless otherwise directed in writing, measurement limits for this work shall be as follows:
  - 1. Pipe:
    - a. Vertical Limit: Bottom of rock cut for pipe in trench shall be 6 inches below the required pipe invert elevation, with depth measured from the mean surface of the rock.
    - b. Horizontal Limit: Limit measurement between vertical side surfaces at bottom of rock cut to the following:

<b>Actual Depth of Rock Cut</b>	<b>Trench Width</b>
Under 10 Feet	24 Inches plus Pipe OD
10 to 15 Feet	36 Inches plus Pipe OD
Over 15 Feet	48 Inches plus Pipe OD

**3.04 FIELD QUALITY CONTROL**

- A. Provide the Director’s Representative with the recorded top of rock elevations. Prior to the performance of any rock removal operations obtain, in writing, that the Director’s Representative has reviewed the information and is in agreement with the measurements taken.
- B. Notify the Director's Representative at least 3 work days in advance of all phases of blasting operations.
- C. Allow time for visual inspection of bottom of rock cut required for the Work.

**3.05 DISPOSAL OF EXCESS AND UNSUITABLE MATERIALS.**

- A. Remove from State property and dispose of excess and unsuitable rock materials.

### **3.06 ADJUSTING**

- A. Unauthorized Rock Removal:
  - 1. Horizontal Direction: Backfill and compact unauthorized rock removal in the horizontal direction as specified for authorized excavation of the same classification, unless otherwise directed.
  - 2. Vertical Direction: Immediately report unauthorized rock removal in the vertical direction to the Director's Representative. Correct unauthorized rock removal in the vertical direction in accordance with directions of the Director.

**END OF SECTION**

## SECTION 321216

### ASPHALT CONCRETE PAVING

#### PART 1 GENERAL

##### 1.01 RELATED WORK SPECIFIED ELSEWHERE

- A. Earthwork: Section 310000.

##### 1.02 SUBMITTALS

- A. Product Data: Manufacturer's name, specifications, and installation instructions, for each item specified.
- B. Quality Control Submittals:
  - 1. Plant name and location of asphalt concrete supplier.

##### 1.03 PROJECT CONDITIONS

- A. Environmental Requirements:
  - 1. Discontinue paving when surface temperatures fall below requirements listed in DOT Table 402-2.
  - 2. Do not place asphalt concrete on wet surfaces, or when weather conditions otherwise prevent the proper handling or finishing of bituminous mixtures as determined by the Director's Representative.

##### 1.04 ASPHALT PRICE ADJUSTMENT

- A. The State can require or the Contractor may request evaluation and possible adjustment of the price of asphalt providing the actual price differs by more than 20 percent from the contract baseline price of asphalt. For the purposes of determining if contract price adjustments are warranted the following baseline prices have been set for this contract:
  - 1. Top Course: \$85 per ton.
  - 2. Binder Course: \$80 per ton.
  - 3. Base Course: \$80 per ton.
- B. If the actual price paid by the Contractor is more than 120% of the baseline price, the adjustment will be calculated as follows, with this adjusted value being credited to the contractor:  $\text{Price adjustment} = \text{actual tonnage} \times \{\text{actual price paid} - (1.2 \times \text{baseline price})\}$ .
- C. If the actual price paid by the Contractor is less than 80% of the baseline price, the adjustment will be calculated as follows, with this adjusted value being credited to the State:  $\text{Price adjustment} = \text{actual tonnage} \times \{(0.8 \times \text{baseline price}) - \text{actual price paid}\}$ .

## **PART 2 PRODUCTS**

### **2.01 MATERIALS**

- A. Asphalt Concrete Paving: Conform to DOT Section 400 Hot Mix Asphalt.
  - 1. Top Course: DOT, Table 403-1, Type 7.
  - 2. Binder Course: DOT, Table 403-1, Type 3.
- B. Asphalt Cement Tack Coat.

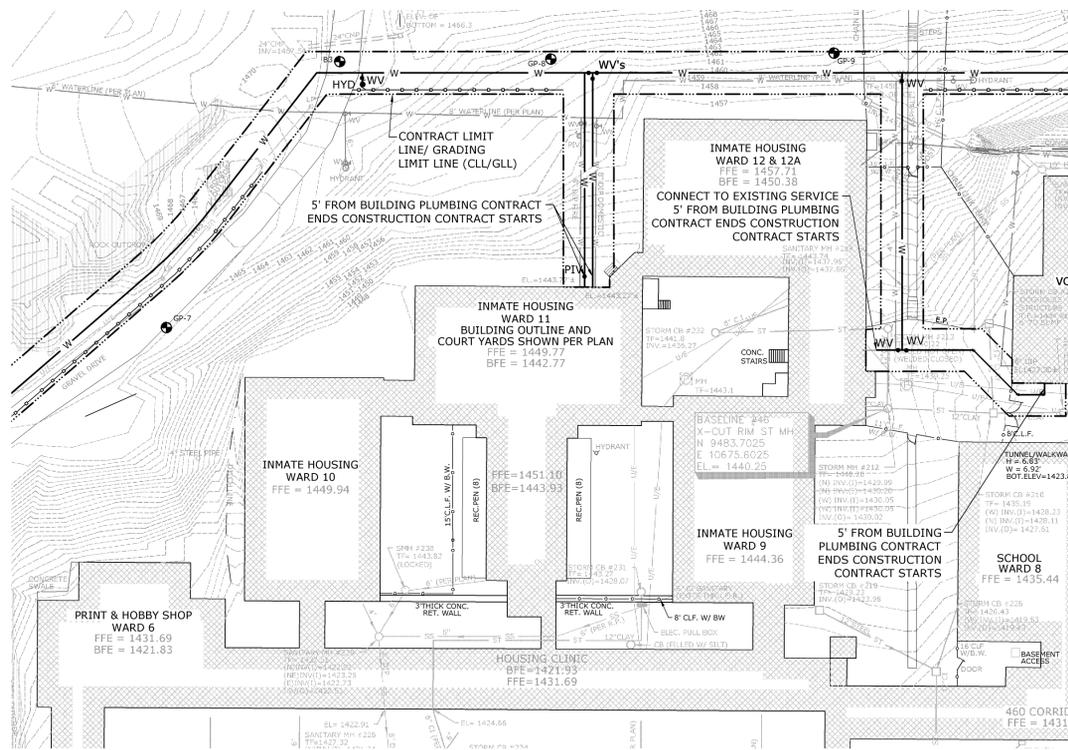
## **PART 3 EXECUTION**

### **3.01 ASPHALT CONCRETE PAVING**

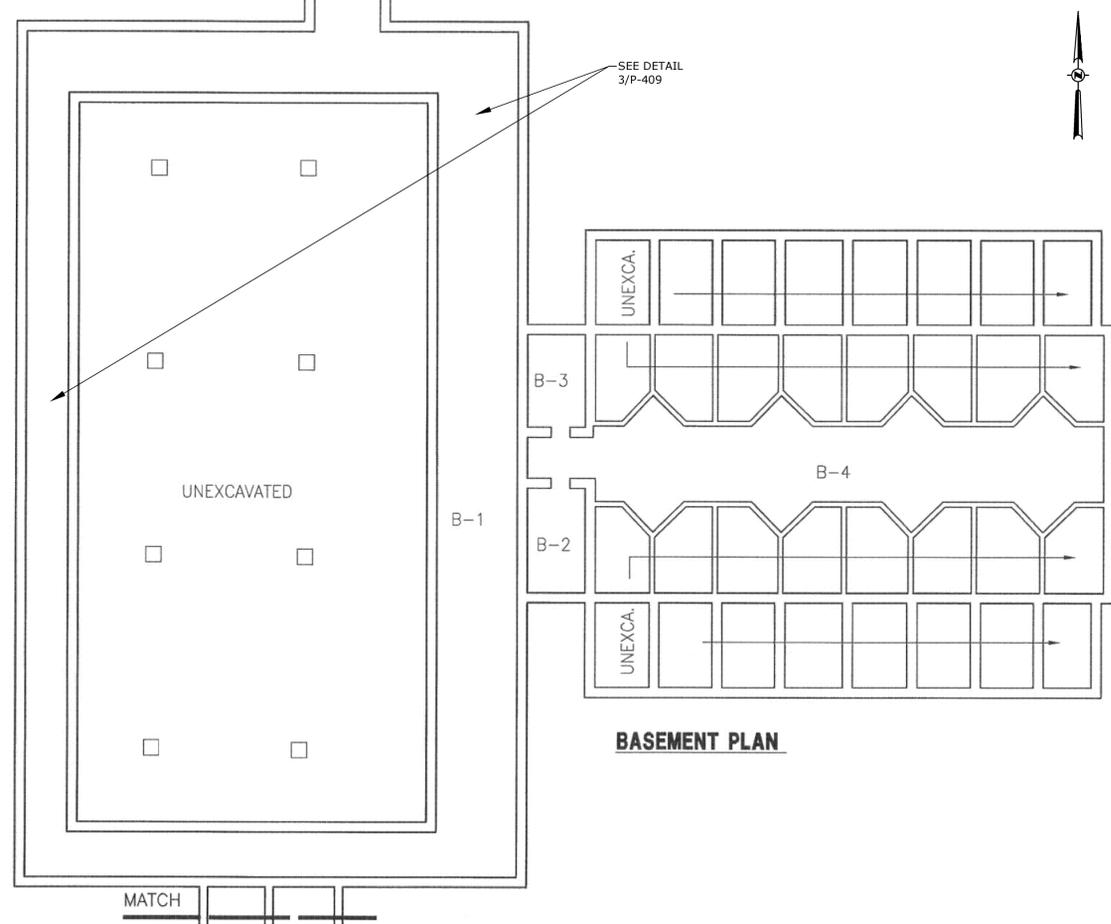
- A. Construct asphalt pavement in accordance with DOT, Section 402-3 except as follows:
  - 1. Paragraph 402-3.06: Change 1250 sq. meters to read 420 sq. meters.

**END OF SECTION**

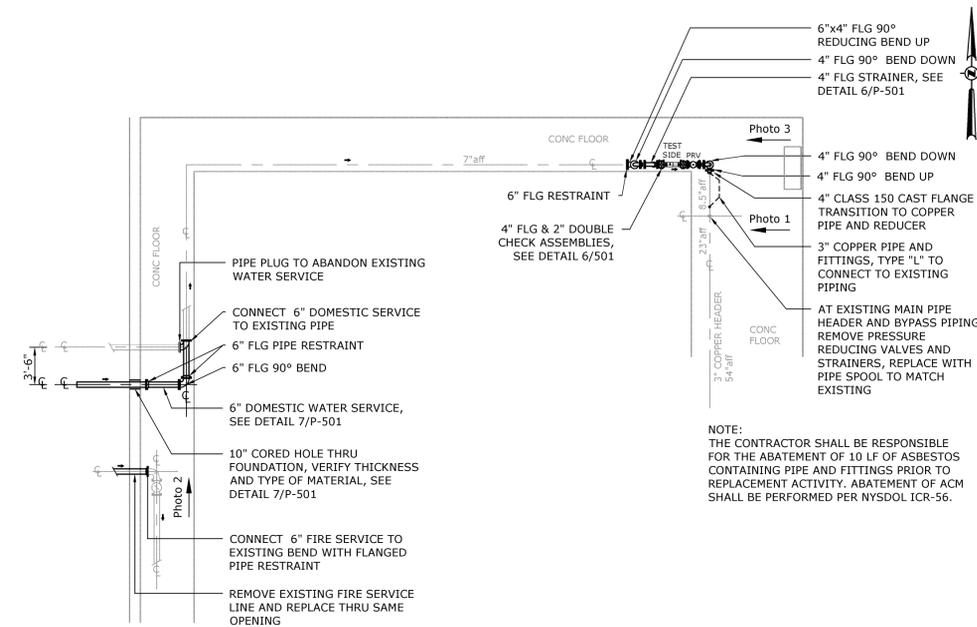




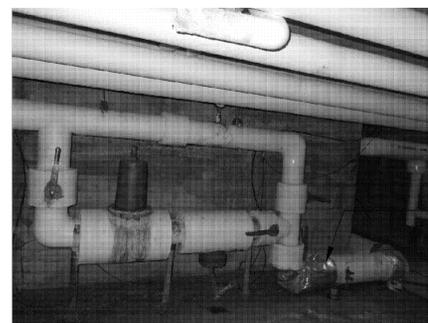
**1 SITE LOCATION  
INMATE HOUSING WARD 11**  
SCALE: 1" = 40'  
CROSS REFERENCE: NONE



**2 BASEMENT PLAN  
INMATE HOUSING WARD 11**  
SCALE: 3/32" = 1'-0"  
CROSS REFERENCE: 1/P-409



**3 ROOM B-1 PLAN**  
SCALE: 1/8" = 1'-0"  
CROSS REFERENCE: 1/P-409, 2/P-409



**4 PHOTO 1**  
SCALE: NONE  
CROSS REFERENCE: 3/P-409



**5 PHOTO 2**  
SCALE: NONE  
CROSS REFERENCE: 3/P-409



**6 PHOTO 3**  
SCALE: NONE  
CROSS REFERENCE: 3/P-409



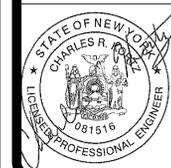
ANDREW M. CUOMO  
Governor  
ROANN M. DESTITO  
Commissioner

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C.T. MALE ASSOCIATES

CTM PROJECT NO: 13.3164  
CTM DRAWING NO: 13-0544

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**CONTRACT:**  
**PLUMBING**  
**TITLE:**  
REPLACE WATER MAIN, ANNEX  
**LOCATION:**  
CLINTON CORRECTIONAL FACILITY  
1074 Rt. 374  
DANNEMORA, CLINTON COUNTY, NY  
**CLIENT:**  
DEPARTMENT OF CORRECTIONS  
AND COMMUNITY SUPERVISION

**BID DOCUMENT**

REV	DATE	DESCRIPTION
REV 1	03/10/2014	REVISED DRAWING
BD	01/16/14	BID DOCUMENT
MARK	DATE	DESCRIPTION
<b>PROJECT NUMBER: 44709 - P</b>		
DESIGNED BY: JOE / DLP		
DRAWN BY: JOE / DLP		
FIELD CHECK:		
APPROVED:		
SHEET TITLE:		

**WATER SERVICE  
INMATE HOUSING  
WARD 11**

DRAWING NUMBER:  
**P-409**  
SHEET 12 OF 20

