



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. 4 TO PROJECT NO. 44362**

**CONSTRUCTION - PROJECT LABOR AGREEMENT PROJECT**

**PROVIDE COMBINED SUPPORT MAINTENANCE SHOP  
516 – ROUTE 216  
STORMVILLE, NEW YORK 12582**

August 14, 2013

**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.

**SPECIFICATION GROUP**

1. 033511 CONCRETE FLOOR FINISHES: Discard the Section bound in the Project Manual and substitute the accompanying Section 033511 (pages 033511-1 thru 033511-3) noted “Revised 08/13/13”.
2. 096500 RESILIENT FLOORING: Discard the Section bound in the Project Manual and substitute the accompanying Section 096500 (pages 096500-1 thru 096500-6) noted “Revised 08/13/13”.
3. 096566 RESILIENT ATHLETIC FLOORING: Discard the Section bound in the Project Manual and substitute the accompanying Section 096566 (pages 096566-1 thru 096566-2) noted “Revised 08/13/13”.
4. 096813 TILE CARPETING: Discard the Section bound in the Project Manual and substitute the accompanying Section 096813 (pages 096813-1 thru 096813-3) noted “Revised 08/13/13”.
5. 101110 VISUAL DISPLAY SYSTEMS: Page 101110-3, Change Paragraph 2.03A2. to read: “2. Back panel-3/4” Reclaimed Hardwood Panels, reclaimed Western Old Growth Redwood, 1” puck located 12” OC.”.
6. 102100 COMPARTMENTS: Part 2.02A, delete “phenolic” and add “high density polyethylene (HPDE)” in its place.
7. 102813 TOILET AND BATH ACCESSORIES: Delete Mirror Type “TA-5b” from this Section. Refer to Section 088300 MIRRORS for Type TA-5b mirrors.
8. 221120 MIXING VALVES: paragraph 2.02; delete ‘(MIX-2)’. Paragraph 2.02 A., Add “(MIX-2)” after WATER TEMPERING EQUIPMENT. Paragraph 2.02 A. k., delete Model 66-150 and insert “Model 66-200”. Insert the following Paragraph after 2.02 A. 2. a.:

“B. WATER TEMPERING EQUIPMENT (MIX-1):

1. Basis-of-Design Product: Subject to compliance with requirements, provide the product indicated on Drawings or a comparable product by one of the following:
  - a. Armstrong International, Inc.
  - b. Bradley Corporation.
  - c. Encon Safety Products.
  - d. Haws Corporation.
  - e. Lawler Manufacturing Co., Inc.
  - f. Leonard Valve Company.
  - g. Powers, a Watts Industries, Co.
  - h. Speakman Company.
  - i. Therm-Omega-tech, Inc.
  - j. Western Emergency Equipment.
  - k. Design based on Lawler Model 911.
  
2. Description: Factory-fabricated, hot- and cold-water tempering equipment with thermostatic mixing valve.
  - a. Thermostatic Mixing Valve: Designed to provide mixed, tepid, potable water at plumbing fixtures, to maintain temperature at plus or minus 5 degree F throughout 15-minute test period, and in case of unit failure to continue cold-water flow, with check stops union connections, controls, metal piping, and corrosion-resistant enclosure. Temperature range 70 degrees – 95 degrees with an 85 degree set-point.
  
9. 221500 GENERAL SERVICE COMPRESSED AIR SYSTEMS: paragraph 2.01A, Delete: Copper Tube: ASTM B88, Type L and ASTM B 88, Type seamless, hard drawn Class, and insert ‘Extruded Aluminum Tube, UNI 9006/1’.
  
10. 237200 Air to Air Heat Recovery Units: Discard paragraph 1.3 “FLAT PLATE HEAT EXCHANGER” and all subparagraphs. Replace with:

**“1.3 FLAT PLATE HEAT EXCHANGER – ENTHALPIC TYPE**

- A. The enthalpic plate exchanger shall transfer both sensible and latent energy between the incoming fresh air stream and the exhaust stale air stream.
  - B. The ERV core shall be certified by AHRI.
  - C. The ERV core shall have a 0% Exhaust Air Transport Ratio as tested to AHRI 1060-2005 (EATR) to prevent cross-over of gases, contaminants or odors.
  - D. The ERV core shall inhibit mold and bacteria growth as tested to Standard AATCC 30 with 100% surface inhibition on the Aspergillus mold test and 100% surface inhibition the Kirby Bauer Staphylococcus bacteria test.
  - E. The ERV core must be able to tolerate freezing temperatures of -30C and not have an increase in EATR or decrease in performance after being frozen.
  - F. The ERV core must be water washable to remove dust and contaminants.
  - G. The ERV core must be flame proof and comply with UL 723 with a flame spread index that shall not be over 25 and a smoke index that shall not be over 50.
  - H. Provide double-sloped stainless steel drain pans under entire heat exchanger. Terminate drain pan connections through the side of the unit.”
11. 283101 PROTECTED PREMISES FIRE ALARM SYSTEM: Delete paragraph H. in its entirety from Part 2.15

## DRAWINGS

12. Drawing Nos. C-130, C-135, C-136, and C-137
  - a. WORK ON GREEN HAVEN CORRECTIONAL FACILITY (GHCF) PROPERTY NOTE, Change to Read:

“1. Prior to performing work located on the GHCF property, the contractor must receive written approval from GHCF to proceed with said work. All scheduling of work and communication with the GHCF facility must be done through the Project’s Construction Manager.”
13. Drawing No. C-104
  - a. Temporary Water Service NOTE, Change to Read:

“Temporary Water Service with corporation stop and valve box. (3/4-in Dia.) (Max. Length 125-ft)”
14. Drawing No. C-104
  - a. Note 2, Change to read:

“No equipment or materials are permitted to be stored or staged within the limits of the FAA boundaries except as shown on the plans.”
15. Revised Drawing:
  - a. Drawing No. C-132, noted “REVISED 8/13/2013” accompanies this Addendum and supersedes the same numbered originally issued drawing. Added culvert at crossing of swale and secure perimeter fence. 24-lf 24-in. dia. SICPP @ 0.50% slope.
16. Revised Drawing:
  - a. Drawing No. C-141, noted “REVISED 8/13/2013” accompanies this Addendum and supersedes the same numbered originally issued drawing. Added invert elevations at culvert end sections; multiple locations.
17. Revised Drawing:
  - a. Drawing No. C-142, noted “REVISED 8/13/2013” accompanies this Addendum and supersedes the same numbered originally issued drawing. Amended contours at intersection of culvert and secure fence crossing.
18. Revised Drawing:
  - a. Drawing No. C-143, noted “REVISED 8/13/2013” accompanies this Addendum and supersedes the same numbered originally issued drawing. Added invert elevations at culvert end sections.
19. Addendum Drawing:
  - a. Drawing No. C-522A, accompanies this Addendum and forms part of the Contract Documents. Drawing includes detail for “Stabilized Shoulders”.
20. Addendum Drawing:
  - a. Drawing No. C-540A, accompanies this Addendum and forms part of the Contract Documents. Drawing includes detail for “Typical Tree Protection”.
21. Addendum Drawing:

- a. Drawing No. C-540B accompanies this Addendum and forms part of the Contract Documents. Drawing includes detail for "Slope Stabilization Fabric Installation Detail".
22. Addendum Drawing:
- a. Drawing No. C-154A accompanies this Addendum and forms part of the Contract Documents. Drawing includes additional construction coordinates indicating the limits of the FAA runway protection zone and the various object free zones associated with the project.
23. Drawing No. C-530
- a. Detail 13; Note – APCO Combination Air Release Valve or Approved Equal; Change to Read:  
  
"APCO Series 140C Combination Air Valve, model No. 145C, as manufactured by Valve & Primer Corporation, Schaumburg, Illinois, or approved equal."
  - b. Detail 13; Note – 20-in flanged outlet; Change to Read:  
  
"6-in. flanged outlet"
24. Drawing No. A-600:
- a. ROOM FINISH SCHEDULE: Room C-1 Entry Lobby, add Keyed Note "10" in Schedule. In the Keyed Note Legend, Change Note 10 to read:  
  
"10. Provide two concrete stain colors in a large geometric pattern. Pattern and color selections to be determined at time of submittals."
25. Drawing No. P-000:
- a. Circulating Pump Schedule; change CP-1 flow rate to 2.7 gpm and Head to 12.6 FT. Change CP-2 flow rate to 3.5 gpm and Head to 12.6 FT. Change CP-3 flow rate to 4.3 gpm and Head to 12.7 FT.
26. Drawing No. P-301:
- a. Mixing Valve Schedule; MIX-2, change inlet size to 2" and outlet size to 2 ½". Detail 5 DOMESTIC HOT WATER SYSTEM WITH SOLAR PANELS; set flow rate and head pressure on the balance valves associated with CP-1, CP-2 and CP-3 to revised rates listed on the schedules. Interconnecting piping between the solar pre-heat tank and the collector array shall be 1 ½". See section 235613 for solar collector Pump information and details. Provide 2 ½" diverting valve/ ball valve in CWS piping between the solar pre-heat tank supply and return connections. Piping between the solar pre-heat tank and the CWS piping connection shall be 1 ½".
27. Drawing No. E-100:
- a. FIRST FLOOR PLAN 1: Room 140 heat pump home runs should read PH4/31 and PH4/33, not PH1/31 and PH1/33. Note 34 home run should read PL6/10,12 not PL6/10.

**END OF ADDENDUM**

James Dirolf, P.E.  
Director of Design

## SECTION 033511

### CONCRETE FLOOR FINISHES

#### PART 1 GENERAL

##### 1.01 SECTION INCLUDES

- A. Surface treatments for concrete floors and slabs.

##### 1.02 RELATED REQUIREMENTS

- A. Section 033000 - Cast-in-Place Concrete: Finishing of concrete surface to tolerance; floating, troweling, and similar operations; curing.
- B. Section 033000 - Cast-in-Place Concrete: Curing compounds that also function as sealers.

##### 1.03 ADMINISTRATIVE REQUIREMENTS

- A. Coordinate the work with concrete floor placement and concrete floor curing.

##### 1.04 SUBMITTALS

- A. Product Data: Manufacturer's published data on each finishing product, including information on compatibility of different products and limitations.
- B. Maintenance Data: Provide data on maintenance and renewal of applied finishes.

##### 1.05 MOCK-UP

- A. For coatings, construct mock-up area under conditions similar to those that will exist during application, with coatings applied.
- B. Mock-Up Size: 10 feet square.
- C. Locate where directed.
- D. Mock-up may remain as part of the work.

##### 1.06 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials in manufacturer's sealed packaging, including application instructions.

##### 1.07 FIELD CONDITIONS

- A. Maintain light level equivalent to a minimum 200 W light source at 8 feet above the floor surface over each 20 foot square area of floor being finished.
- B. Do not finish floors until interior heating system is operational.
- C. Maintain ambient temperature of 50 degrees F minimum.

#### PART 2 PRODUCTS

##### 2.01 CONCRETE FLOOR FINISH APPLICATIONS

- A. Unless otherwise indicated, all concrete floors are to be finished using liquid densifier/hardener.
- B. Liquid Densifier/Hardener:
- C. Acetone Dye Stain:
  - 1. Color 1:
    - a. Use at following locations: To be selected by architect at submittal phase.

2. Color 2:
  - a. Use at following locations: To be selected by architect at submittal phase.
- D. High Gloss Clear Penetrating Sealer:
- E. Slip Resistant Coating: High gloss clear sealer with plastic aggregate.
  1. Use at following locations: as scheduled.

## 2.02 DENSIFIERS AND HARDENERS

- A. Liquid Densifier/Hardener: Penetrating chemical compound that reacts with concrete, filling the pores and dustproofing; for application to concrete prior to set.
  1. Composition: Lithium Densifier.
  2. Products:
    - a. Basis of Design: Scofield Formula One -LD MP
    - b. High performance hardening and dust proofing compound that is chemically reactive and permanently bonds to concrete formulated to be used in conjunction with integrally colored concrete. Apply per manufacturer's instructions.
      - 1) Abrasion Resistance: ASTM C779
      - 2) Impact Strength: ASTM C805
      - 3) Ultra Violet Light and Water Spray: ASTM G23-81
    - c. Substitutions: See Section 016000 - Product Requirements.

## 2.03 COATINGS

- A. Concrete Stain: Translucent, penetrating compound for interior or exterior use; must be finished with a topical sealer.
  1. Composition: Non-volatile acid based, chemically reactive.
  2. Number of Coats: Minimum of one.
  3. VOC: 10.7 g/L.
  4. Primary Color: to be selected from manufacturers full line of colors, in a formulation to match approved mock-up.
  5. Secondary Color: to be selected from manufacturers full line of colors, applied after primary color has completely dried, in a formulation to match approved mock-up.
  6. Application:
    - a. Primary Color: Spray applied.
    - b. Secondary Color: Spray applied.
- B. High Gloss Clear Sealer: Transparent, non-yellowing, water-based coating, lithium fortified, penetrating sealer.
  1. Products:
    - a. Basis of Design: Scofield Formula One Guard-W water-borne acrylic penetrating material formulated to protect polished concrete from normal staining and to enhance gloss.
      - 1) Lithium Protective Finish. Apply per manufacturer's instructions.
        - (a) Slip Resistance: ASTM S2047 - >.6 Static Coefficient of Friction.
        - (b) Impact Strength: ASTM C805.
- C. Colored Coating: Pigmented coating recommended by manufacturer for finishing concrete floors and slabs.
  1. Manufacturers:
    - a. Basis of Design Scofield Formula One Liquid Dye Concentrate.

- 1) Acetone soluble color liquid dye concentrate. Apply per manufacturer's instructions.
  - (a) SC-1: Consisting of two colored layers of stain. Spray applied.
  - (b) SC-2: Consisting of two colored layers of stain. Spray applied.
  - (c) Architect to select colors from full range.
- D. Plastic Aggregate: Finely ground polymer for addition to coatings for slip resistance.
  1. Products:
    - a. W.R. Meadows, Inc; Sure-Step: [www.wrmeadows.com](http://www.wrmeadows.com).
    - b. Substitutions: See Section 016000 - Product Requirements.

## **2.04 POLISHED CONCRETE SYSTEM**

- A. Polished Concrete System: Materials, equipment, and procedures designed and furnished by a single manufacturer to produce dense polished concrete of the specified sheen.
  1. Acceptable Systems:
    - a. Basis of Design [Scofield Formula One].
    - b. Substitutions: See Section 016000 - Product Requirements.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Verify that floor surfaces are acceptable to receive the work of this section.
- B. Verify that flaws in concrete have been patched and joints filled with methods and materials suitable for further finishes.

### **3.02 GENERAL**

- A. Apply materials in accordance with manufacturer's instructions.

### **3.03 COATING APPLICATION**

- A. Verify that surface is free of previous coatings, sealers, curing compounds, water repellents, laitance, efflorescence, fats, oils, grease, wax, soluble salts, residues from cleaning agents, and other impediments to adhesion.
- B. Verify that water vapor emission from concrete and relative humidity in concrete are within limits established by coating manufacturer.
- C. Protect adjacent non-coated areas from drips, overflow, and overspray; immediately remove excess material.
- D. Apply coatings in accordance with manufacturer's instructions, matching approved mock-ups for color, special effects, sealing and workmanship.

### **3.04 CONCRETE POLISHING**

- A. Execute using materials, equipment, and procedures specified by manufacturer, using manufacturer approved installer.
  1. Final Polished Sheen: Honed, polished finish; other sheens are included as comparison to illustrate required sheen; final sheen is before addition of any sealer or coating, regardless of whether that is also specified or not.
- B. Protect finished surface as required and recommended by manufacturer of polishing system.

**END OF SECTION**

## **SECTION 096500**

### **RESILIENT FLOORING**

#### **PART 1 GENERAL**

##### **1.01 SECTION INCLUDES**

- A. Resilient tile flooring.
- B. Resilient base.
- C. Stair treads.
- D. Installation accessories.

##### **1.02 RELATED REQUIREMENTS**

- A. Section 055100 - Metal Stairs.

##### **1.03 REFERENCE STANDARDS**

- A. ASTM E648 - Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source; 2010e1.
- B. ASTM F1066 - Standard Specification for Vinyl Composition Floor Tile; 2004 (Reapproved 2010)e1.
- C. ASTM F1861 - Standard Specification for Resilient Wall Base; 2008.
- D. BAAQMD 8-51 - Bay Area Air Quality Management District Regulation 8, Rule 51, Adhesive and Sealant Products; [www.baaqmd.gov](http://www.baaqmd.gov); 2002.
- E. CAL (CHPS LEM) - Low-Emitting Materials Product List; California Collaborative for High Performance Schools (CHPS); current edition at [www.chps.net/](http://www.chps.net/).
- F. FS RR-T-650 - Treads, Metallic and Nonmetallic, Skid Resistant; Federal Specifications and Standards; Revision E, 1994.
- G. GEI (SCH) - GREENGUARD "Children and Schools" Certified Products; GREENGUARD Environmental Institute; current listings at [www.greenguard.org](http://www.greenguard.org).
- H. NFPA 253 - Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source; National Fire Protection Association; 2011.
- I. SCAQMD 1168 - South Coast Air Quality Management District Rule No.1168; current edition; [www.aqmd.gov](http://www.aqmd.gov).
- J. SCS (CPD) - SCS Certified Products; Scientific Certification Systems; current listings at [www.scs-certified.com](http://www.scs-certified.com).

##### **1.04 SUBMITTALS**

- A. Product Data: Provide data on specified products, describing physical and performance characteristics; including sizes, patterns and colors available; and installation instructions.
- B. Selection Samples: Submit manufacturer's complete set of color samples for Director's representative's initial selection.



- C. Maintenance Data: Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning, stripping, and re-waxing.
- D. LEED Report: Report recycled content and VOC emission of flooring; VOC content of adhesives, and location of manufacture.
- E. Maintenance Materials: Furnish the following for NYS Office of General Services's use in maintenance of project.
  - 1. Extra Flooring Material: Quantity equivalent to 2percent of each type and color.
  - 2. Extra Wall Base: Quantity equivalent to 2percentof each type and color.
  - 3. Extra Stair Materials: Quantity equivalent to 2percent of each type and color.

## **1.05 FIELD CONDITIONS**

- A. Maintain temperature in storage area between 55 degrees F and 90 degrees F.
- B. Store materials for not less than 48 hours prior to installation in area of installation at a temperature of 70 degrees F to achieve temperature stability. Thereafter, maintain conditions above 55 degrees F.

## **PART 2 PRODUCTS**

### **2.01 TILE FLOORING**

- A. Vinyl Composition Tile: Homogeneous, with color extending throughout thickness, and:
  - 1. Minimum Requirements: Comply with ASTM F 1066
  - 2. Critical Radiant Flux (CRF): Minimum 0.45 watt per square centimeter, when tested in accordance with ASTM E 648 or NFPA 253.
  - 3. Size: 12 x 12 inch.
  - 4. VOC Content: Certified as Low Emission by one of the following :
    - a. GreenGuard Children and Schools; [www.greenguard.org](http://www.greenguard.org).
    - b. SCS Floorscore; [www.scs-certified.com](http://www.scs-certified.com).
    - c. Product listing in the CHPS Low-Emitting Materials Product List at; [www.chps.net/manual/lem\\_table.htm](http://www.chps.net/manual/lem_table.htm).
  - 5. Thickness: 0.125 inch.
  - 6. Static Load Limit: 125 p.s.i.
  - 7. Pattern: Marbleized.
  - 8. Recycled Content; 2% Post-Consumer recycled content
  - 9. Basis of Design: Mannington Commerical Brushwork Premium VCT, color 717 Venetian Silk
  - 10. Manufacturers:
    - a. Armstrong World Industries, Inc: [www.armstrong.com](http://www.armstrong.com).
    - b. Mannington Commercial, Inc: [www.mannington.com](http://www.mannington.com).
    - c. Azrock: [www.azrock.com](http://www.azrock.com)
  - 11. VCT colors:
    - a. Provide a minimum of 4 colors selected from manufacturers standard collection, to be selected by Architect.
- B. SDT - Static Dissipative Tile; ASTM F 1066 Class 2.
  - 1. Size: 12"x12"
  - 2. Gauge: 1/8"
  - 3. Fire Test Data: ASTM E 648 Critical Radiant Flux Class I - 0.45 or more watts/cm<sup>2</sup>

- a. ASTM E 662 Smoke Developed 450 or less Numerical flammability ratings alone may not define the performance of the product under actual fire conditions. These ratings are provided only for use in the selection of products to meet the specified limits.
4. Static Load Limit: ASTM F 970 75 psi (5.27 kg/cm<sup>2</sup>)
  - a. Static Generation: ESD STM 97.2 at 40% R.H.:<10 volts; at 12% R.H.:<100 volts when installed as a system, flooring in combination with ESD footwear and a person.
  - b. Static Decay: Fed Test 101c, Method 4046 (5000 volts to zero) in < 0.5 sec. when installed as a system, flooring in combination with ESD footwear and a person.
5. Electrical Resistance: ESD-S7.1 and ASTM F-150 10e6 to 10e9 ohms Point to point, and point to ground, when installed as a system.
6. Recycled Content: 7% post-consumer, 3% pre-consumer.
7. Tile is Floorscore Certified for low emitting material and Adhesive meets SCAQUMD Rule #1168.
8. Color: Marbleized, to be selected from manufacturer full line. Provide minimum of 3 colors.
9. Basis of design: Armstrong Static Dissipative Tile

## 2.02 STAIR COVERING

- A. Stair Treads: Rubber; full width and depth of stair tread in one piece; tapered thickness; nosing not less than 1-5/8 inch deep.
  1. Minimum Requirements: Comply with FS RR-T-650 requirements corresponding to type specified.
  2. Nominal Thickness: 0.210 inch to 0.113 inch 2.87mm tapering thickness.
  3. Nosing: Square.
  4. Style: Photo-luminescent grit tape. Not less than 2" of contrasting color.
  5. Color: Solid.
  6. Install with manufacturers recommended adhesive to protect warranty.
  7. Manufacturers:
    - a. Burke Flooring: [www.burkemercer.com](http://www.burkemercer.com).
    - b. Mannington Commercial, [www.mannington.com](http://www.mannington.com)
    - c. Johnsonite, Inc; Product Roundel Rubber Stair Treads: full color range: [www.johnsonite.com](http://www.johnsonite.com).
    - d. Roppe Corp; Product Raised Square Design (33 colors): [www.roppe.com](http://www.roppe.com).
    - e. Substitutions: See Section 013300 - Submittals.

## 2.03 RESILIENT BASE

- A. Resilient Base: FS SS-W-40, Type I, ASTM F 1861, Type TS rubber, vulcanized thermoset; Group 1, top set Style B, Cove, and as follows:
  1. Critical Radiant Flux (CRF): Minimum 0.45 watt per square centimeter, when tested in accordance with ASTM E 648 or NFPA 253.
  2. Height: 4 inch.
  3. Thickness: 0.125 inch thick.
  4. Finish: Satin.
  5. Length: 100' or 120' coils
  6. Color: Color as selected from manufacturer's full line.
  7. Accessories: Premolded external corners, internal corners, and end stops.
  8. Install using manufacturers recommended adhesive to protect warranty.
  9. Shape: Cove with toe for resilient floors and straight for carpet locations.
  10. Manufacturers:
    - a. Mannington: [www.mannington.com](http://www.mannington.com).
    - b. Johnsonite, Inc: [www.johnsonite.com](http://www.johnsonite.com).

- c. Roppe Corp: [www.roppe.com](http://www.roppe.com).
- d. Burke, [www.burkeflooring.com](http://www.burkeflooring.com)

## **2.04 ACCESSORIES**

- A. Subfloor Filler: White premix latex; type recommended by adhesive material manufacturer.
- B. Primers, Adhesives, and Seaming Materials: Waterproof; types recommended by flooring manufacturer.
  - 1. Provide only products having lower volatile organic compound (VOC) content than required by the more stringent of the South Coast Air Quality Management District Rule No.1168 and the Bay Area Air Quality Management District Regulation 8, Rule 51.
  - 2. Provide High-Moisture Adhesive where required due to high relative moisture content of concrete slab. All adhesive shall be manufacturers recommended to protect warranty.
- C. Moldings, Transition and Edge Strips: Rubber.
- D. Vinyl Transition Strips
  - 1. Product: CTA-XX-( -) series manufactured by Johnsonite, or approved transition for application.
    - a. Color and pattern to match floor tile.
    - b. Gauge: not less than 1/8".
- E. Filler for Coved Base: Plastic.
- F. Sealer and Wax: Types recommended by flooring manufacturer.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. General: Examine areas where installation of flooring will occur, with installer present, to verify that substrates and conditions are satisfactory for flooring installation and comply with flooring manufacturer's requirements and those specified in this Section.
- B. Concrete Subfloors: Verify that concrete slabs comply with ASTM F 710 and the following:
  - 1. Slab substrates are dry and free of curing compounds, sealers, hardeners, and other materials whose presence would interfere with bonding of adhesive. Determine adhesion and dryness characteristics by performing bond tests recommended by flooring manufacturer.
  - 2. Subfloors are free of cracks, ridges, depressions, scale, and foreign deposits of any kind.
- C. Concrete Moisture Emission Tests: Perform calcium chloride test as per manufacturer's directions, as follows, and other tests if recommended by resilient flooring and adhesive manufacturer:
  - 1. Perform moisture test at rate of one per 2,000 sq. ft. of new and existing floor area to be covered.
  - 2. Report test results in writing to Architect, and Contractor within 24 hours after tests are completed. Reports of concrete moisture emission tests shall contain the Project identification name and number, date of test location of test within structure.
  - 3. Perform additional moisture emission tests of in-place concrete when test results indicate specified moisture content has been exceeded, as directed by Architect.
    - a. Repeat test one week after initial test minimally and additionally repeat test if required by field conditions to determine moisture levels in area of resilient flooring application.
- D. Do not proceed with installation until unsatisfactory conditions have been corrected.

### **3.02 PREPARATION**

- A. General: Comply with manufacturer's installation specifications to prepare substrates indicated to receive flooring.
- B. Use trowelable leveling and patching compounds per flooring manufacturer's directions to fill cracks, holes, and depressions in substrates and to patch and level floors as required to provide suitable substrate for flooring application.
- C. Remove coatings, including curing compounds, and other substances that are incompatible with flooring adhesives by using a grinder, sander, or polishing machine with a heavy-duty wire brush.
- D. Broom or vacuum clean substrates to be covered by flooring immediately before installation of flooring. Following cleaning, examine substrates for moisture, alkaline salts, carbonation, or dust.
- E. Apply concrete slab primer, if recommended by flooring manufacturer, prior to applying adhesive. Apply according to manufacturer's directions.
- F. Seal concrete substrates as required by moisture test results to ensure proper adhesion of resilient flooring to substrate.

### **3.03 TILE INSTALLATION**

- A. General: Comply with tile manufacturer's installation directions and other requirements indicated that are applicable to each type of tile installation included in Project.
- B. Lay out tiles from center marks established with principal walls so tiles at opposite edges of room are of equal width. Install tiles square with room axis, unless otherwise indicated.
- C. Match tiles for color and pattern by selecting tiles from cartons in same sequence as manufactured and packaged, if so numbered. Cut tiles neatly around all fixtures. Discard broken, cracked, chipped, or deformed tiles.
  - 1. Lay tiles in decorative pattern as indicated on drawings.
- D. Scribe, cut, and fit tiles to butt tightly to vertical surfaces and edgings.
- E. Extend tiles into toe spaces, door reveals, closets, and similar openings.
- F. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on finish flooring as marked on subfloor. Use chalk or other non-permanent, nonstaining marking device.
- G. Install tiles on covers for telephone and electrical ducts, and similar items in finished floor areas. Maintain overall continuity of color and pattern with pieces of flooring installed on covers. Tightly adhere edges to perimeter of floor around covers and to covers.
- H. Adhere tiles to flooring substrates without producing open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks, or other surface imperfections in completed tile installation.
- I. Use full spread of adhesive applied to substrate in compliance with tile manufacturer's directions including those for trowel notching, adhesive mixing, and adhesive open and working times.
- J. Hand roll tile where required by tile manufacturer.

### **3.04 INSTALLATION OF RESILIENT BASE AND ACCESSORIES**

- A. General: Install resilient accessories according to manufacturer's written installation instructions.
- B. Fit joints tightly and make vertical. Maintain minimum dimension of 18 inches between joints.
- C. Apply resilient wall base to walls, pilasters, casework, and other permanent fixtures in rooms and areas where base is required. Install wall base in lengths as long as practicable. Tightly adhere wall base to substrate throughout length of each piece, with base in continuous contact with horizontal and vertical substrates.
  - 1. On masonry surfaces or other similar irregular substrates, fill voids along top edge of resilient wall base with manufacturer's recommended adhesive filler material.
  - 2. Install preformed corners as per manufacturer's directions.

### **3.05 STAIR COVERINGS**

- A. Adhere over entire surface. Fit accurately and securely.

### **3.06 CLEANING**

- A. Perform the following operations immediately after completing installation:
  - 1. Remove visible adhesive and other surface blemishes using cleaner recommended by manufacturers.
  - 2. Sweep or vacuum floor thoroughly.
  - 3. Do not wash floor until after time period recommended by resilient flooring manufacturer.
  - 4. Damp-mop flooring to remove black marks and soil.
- B. Protect flooring against mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period. Use protection methods indicated or recommended by flooring manufacturer.
  - 1. Apply protective floor polish to flooring surfaces that are free from soil, visible adhesive, and surface blemishes. Coordinate selection of floor polish with Owner's maintenance service requirements.
  - 2. Cover flooring with undyed, untreated building paper until inspection for Substantial Completion.
- C. Clean flooring not more than 4 days prior to dates scheduled for inspections intended to establish date of Substantial Completion in each area of Project. Clean flooring using method recommended by manufacturer.
  - 1. Strip protective floor polish that was applied after competing installation prior to cleaning.
  - 2. Reapply floor polish after cleaning.

### **3.07 PROTECTION**

- A. Prohibit traffic on resilient flooring for 48 hours after installation.

**END OF SECTION**

## SECTION 096566

### RESILIENT ATHLETIC FLOORING

#### PART 1 GENERAL

##### 1.01 SECTION INCLUDES

- A. Interlocking, loose-laid rubber tile.
- B. Accessories.

##### 1.02 REFERENCE STANDARDS

- A. ASTM D412 - Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers--Tension; 2006a.
- B. ASTM D2240 - Standard Test Method for Rubber Property--Durometer Hardness; 2005 (Reapproved 2010).
- C. ASTM E648 - Standard Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source, 2006.

##### 1.03 SUBMITTALS

- A. See Section 013000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Manufacturer's printed data sheets for products specified.
- C. LEED Submittal: Documentation of recycled content, ,VOC content, and location of manufacture.
- D. LEED Report: Submit data documenting VOC content of carpet tile and adhesives; copy of current CRI Approved Products Listing is acceptable. Submit pre-consumer and post-consumer recycled materials.
- E. Selection Samples: Manufacturer's color charts for flooring materials specified, indicating full range of colors and textures available.
- F. Maintenance Materials: Furnish the following for NYS Office of General Services's use in maintenance of project.
  - 1. Extra Materials: Quantity equivalent to 2percent of each type and color.

##### 1.04 QUALITY ASSURANCE

- A. Installer Qualifications: An experienced installer certified in writing by the flooring manufacturer to be qualified for installation of specified flooring system.

##### 1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to project site in unopened containers clearly labeled with manufacturer's name and identification of contents.
- B. Store materials in dry and clean location until needed for installation. During installation, handle in a manner that will prevent marring and soiling of finished surfaces.

#### PART 2 PRODUCTS

##### 2.01 PREFORMED ATHLETIC FLOORING

- A. Manufacturers: All products by the same manufacturer.
  - 1. Johnsonite, Inc: [www.johnsonite.com](http://www.johnsonite.com).

2. Pawling Corporation: [www.pawling.com](http://www.pawling.com).
  3. Robbins Sports Surfaces: [www.robbinsfloor.com](http://www.robbinsfloor.com).
- B. Rubber Tile Flooring: 100% synthetic and natural rubber material formed into square tiles with visible interlocking tabs, free-laid without adhesive.
1. Thickness: Minimum 3/8 in.
  2. Size: Nominal 24 in square.
  3. Tensile Strength: Minimum 250 psi, per ASTM D412.
  4. Hardness: Minimum 65, when tested in accordance with ASTM D2240 using Type A durometer.
  5. Surface Texture: Hammered.
  6. Color: As selected from manufacturer's standard speckled and solid colorways.
  7. Flammability, when tested in accordance with NFPA 253 and ASTM E 648B: Critical Radiant Flux, Class I. ASTM E662/NFPA 258 (Smoke Density) , less than 450.
  8. Basis of design: Johnsonite Triumph Multi-Functional Sports Rubber tile, color 530 Statue.

## **2.02 ACCESSORIES**

- A. Leveling Compound: Latex-modified cement formulation as recommended by flooring manufacturer for substrate conditions.
- B. Adhesive: Water-resistant type recommended by flooring manufacturer for project conditions.
- C. ADA flooring transitions at doorways

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Examine substrates for conditions detrimental to installation of athletic flooring. Proceed with installation only after unsatisfactory conditions have been corrected.
- B. Verify that surfaces are flat to tolerances acceptable to flooring manufacturer, free of cracks that might telegraph through flooring, clean, dry, and free of curing compounds, surface hardeners, and other chemicals that might interfere with bonding of athletic flooring to substrate.

### **3.02 PREPARATION**

- A. Remove coatings that are incompatible with flooring adhesives, using methods recommended by flooring manufacturer.
- B. Broom clean areas to receive athletic flooring immediately before beginning installation.

### **3.03 INSTALLATION**

- A. Starting installation constitutes acceptance of sub-floor conditions.
- B. Comply with manufacturer's recommendations and approved shop drawings.
- C. Rubber Tile Flooring:
  1. Lay out center lines in spaces to receive tile flooring, based on location of principal walls. Start tile installation from center, and adjust as necessary to avoid tiles less than one-half width at perimeter. Corner and wall tiles to be provided
  2. Lay tiles square with room axis, matching for color and pattern by selecting from cartons and mixing as recommended by manufacturer.

**END OF SECTION**

## **SECTION 096813**

### **TILE CARPETING**

#### **PART 1 GENERAL**

##### **1.01 SECTION INCLUDES**

- A. Carpet tile, fully adhered.

##### **1.02 REFERENCE STANDARDS**

- A. ASTM D2859 - Standard Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials; 2006 (Reapproved 2011).
- B. ASTM E648 - Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source; 2010e1.
- C. ASTM F710 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring; 2011.
- D. CRI (CIS) - Carpet Installation Standard; Carpet and Rug Institute; 2009.
- E. CRI (GLA) - Green Label Testing Program - Approved Adhesive Products; Carpet and Rug Institute; Current Edition.
- F. CRI (GLC) - Green Label Testing Program - Approved Product Categories for Carpet; Carpet and Rug Institute; Current Edition.
- G. CRI (GLP) - Green Label Plus Carpet Testing Program - Approved Products; Carpet and Rug Institute; Current Edition.
- H. NFPA 253 - Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source; National Fire Protection Association; 2011.

##### **1.03 SUBMITTALS**

- A. Shop Drawings: Indicate layout of joints.
- B. Product Data: Provide data on specified products, describing physical and performance characteristics; sizes, patterns, colors available, and method of installation.
- C. Samples: Submit two carpet tiles illustrating color and pattern design for each carpet color selected.
- D. LEED Report: Submit data documenting VOC content of carpet tile and adhesives; copy of current CRI Approved Products Listing is acceptable. Submit pre-consumer and post-consumer recycled materials.
- E. Manufacturer's Installation Instructions: Indicate special procedures.
- F. Maintenance Data: Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning.
- G. Maintenance Materials: Furnish the following for NYS Office of General Services's use in maintenance of project.
  - 1. Extra Carpet Tiles: Quantity equal to 2 percent of total installed of each color and pattern installed.



## **1.04 QUALITY ASSURANCE**

- A. Manufacturer Qualifications: Company specializing in manufacturing specified carpet tile with minimum three years documented experience.
- B. Installer Qualifications: Company specializing in installing carpet with minimum three years experience.

## **1.05 FIELD CONDITIONS**

- A. Store materials in area of installation for minimum period of 24 hours prior to installation. Do not store other material on top and maintain manufacturers recommended stack height.
- B. With air circulating, maintain minimum ambient temperature 70 degrees F 72 hours prior to, during, and 24 hours after installation, in areas where materials are stored.
- C. Ventilate installation area during installation and for 72 hours after installation.

## **PART 2 PRODUCTS**

### **2.01 MANUFACTURERS**

- A. Basis of Design: Tandus, Product River's Edge #03936, color Shadow Falls #01868.
- B. Other Acceptable Manufacturers:
  - 1. Interface, Inc: [www.interfaceinc.com](http://www.interfaceinc.com).
  - 2. Mannington: [www.leescarpets.com](http://www.leescarpets.com).
  - 3. Milliken & Company: [www.milliken.com](http://www.milliken.com).
  - 4. Substitutions: See Section 013300 - Submittals.

### **2.02 MATERIALS**

- A. Carpet Tile Type 1: Tufted, Stratalec patterned loop, manufactured in one color dye lot.
  - 1. \_Product: River Edge #03936 manufactured by Tandus.
  - 2. Tile Size: 24 x 24 inch, nominal.
  - 3. Thickness:.187 inch.
  - 4. Color: Shadow Falls #01868.
  - 5. Pattern: River Edge.
  - 6. Critical Radiant Flux: Minimum of 0.45 watts/sq cm, when tested in accordance with ASTM E648 or NFPA 253.
  - 7. Surface Flammability Ignition: Pass ASTM D2859 (the "pill test").
  - 8. VOC Content: Provide CRI Green Label Plus certified product.
  - 9. Recycled content by weight: 49.9% total recycled with minimum 22.5% post-consumer.
  - 10. Static Control Fiber: AATCC-134 test method.
  - 11. Electrostatic Propensity: 2.0 kV (AATCC-134) Permanent Conductive Fiber
  - 12. Gage: 5/64 inch.
  - 13. Stitches: 9.9 per inch.\_
  - 14. Yarn Weight: 27.0 oz/sq yd
  - 15. Fiber Type: 100% Solution Dyed.
  - 16. Fiber System: Dynex SDNylon
  - 17. Protective treatment: Manufacturers soil protection. Ensure.
  - 18. Primary Backing Material: 100% Non-Woven Synthetic.
  - 19. Intermediate Layer; Fiberglass Reinforced Sealant.
  - 20. Secondary Backing Material: 100% recycled content with Tru-Bloc barrier system.
  - 21. Total Weight: 137.5.

- 22. Warranty: 25 year Commercial
- 23. Adhesive: Use with manufacturer recommended '0' VOC adhesive.
- 24. Meets Carpet and Rug Institute Green Label Indoor Quality Test.

### **2.03 ACCESSORIES**

- A. Sub-Floor Filler: Type recommended by flooring material manufacturer.
- B. Molding and edge strips: Refer to Section "Resilient Flooring and Accessories", color as selected by Architect.
- C. Edge Strips: Embossed aluminum.
- D. Adhesive: Use with manufacturer recommended '0' VOC adhesive- Shaw Adhesive 5100.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Verify that sub-floor surfaces are smooth and flat within tolerances specified for that type of work and are ready to receive carpet tile.
- B. Verify that sub-floor surfaces are dust-free and free of substances that could impair bonding of adhesive materials to sub-floor surfaces.
- C. Verify that required floor-mounted utilities are in correct location.

### **3.02 PREPARATION**

- A. Prepare floor substrates as recommended by flooring and adhesive manufacturers.
- B. Remove sub-floor ridges and bumps. Fill minor or local low spots, cracks, joints, holes, and other defects with sub-floor filler.
- C. Apply, trowel, and float filler to achieve smooth, flat, hard surface. Prohibit traffic until filler is cured.

### **3.03 INSTALLATION**

- A. Starting installation constitutes acceptance of sub-floor conditions.
- B. Install carpet tile in accordance with manufacturer's instructions and CRI Carpet Installation Standard.
- C. Blend carpet from different cartons to ensure minimal variation in color match.
- D. Cut carpet tile clean. Fit carpet tight to intersection with vertical surfaces without gaps.
- E. Lay carpet tile in square pattern, with pile direction parallel to next unit, set parallel to building lines.
- F. Fully adhere carpet tile to substrate.
- G. Trim carpet tile neatly at walls and around interruptions.
- H. Complete installation of edge strips, concealing exposed edges.

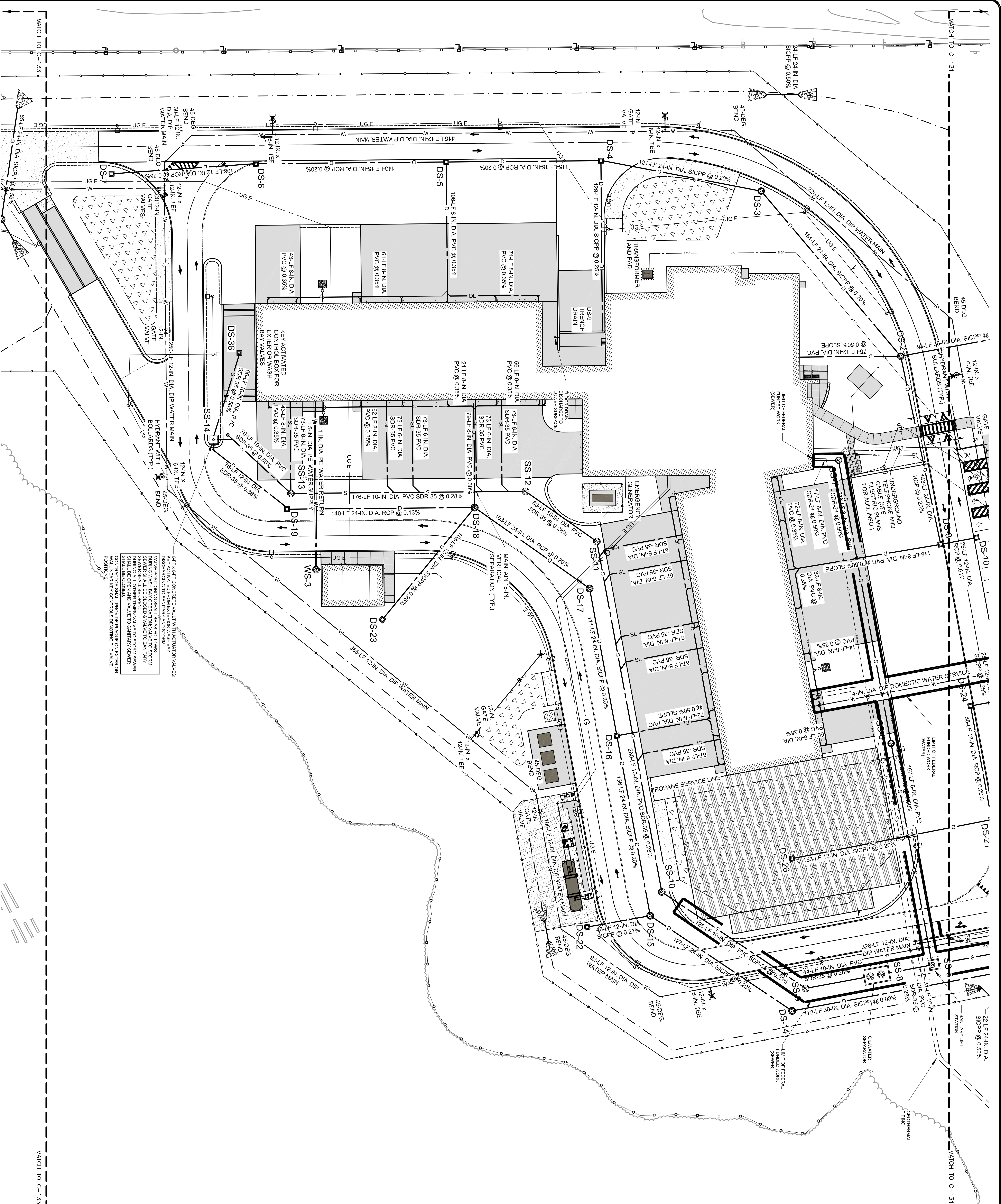
### **3.04 CLEANING**

- A. Remove excess adhesive without damage, from floor, base, and wall surfaces.
- B. Clean and vacuum carpet surfaces.

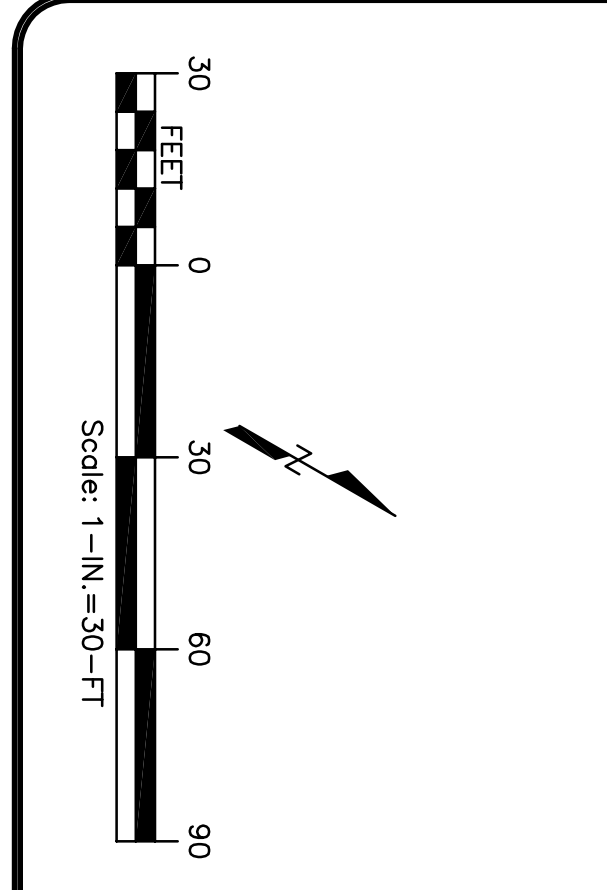
**END OF SECTION**



- NOTES**
1. SEE ELECTRICAL DRAWING FOR INFORMATION REGARDING SECURITY CAMERAS, COMMUNICATIONS WIRING, ELECTRICAL WIRING, SECURITY MARKING, AND SITE LIGHTING.
  2. SEE SHEETS C-152 AND C-154 FOR GEOMETRY POINT COORDINATES.
  3. SEE SHEET C-122 FOR SITE WORK INFORMATION.
  4. SEE SHEETS C-142 AND C-146 FOR GRADING AND EROSION CONTROL INFORMATION.
  5. SEE SHEET C-142 AND C-146 FOR SIGN LOCATIONS AND PAVERS MARKING INFORMATION.
  6. SEE SHEET C-130 FOR GENERAL UTILITY NOTES.
  7. LENGTHS OF WATERMAIN LISTED ARE FOR THOSE SHOWN ON THIS SHEET.



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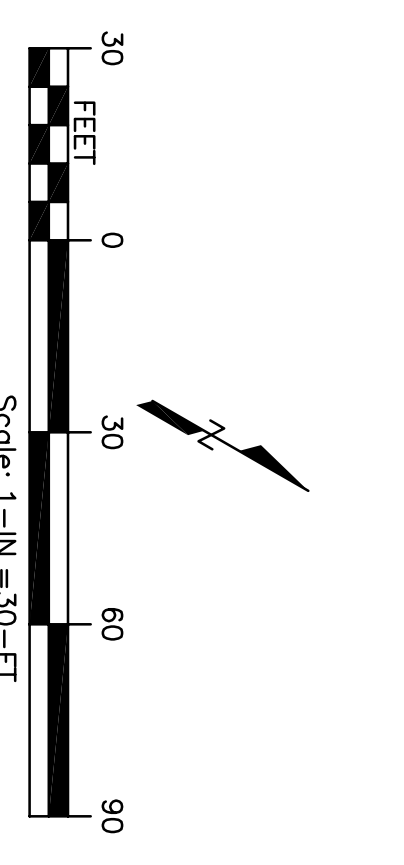
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DATE	DESCRIPTION
8-13-2013	REVISION
8-1-2013	

**PROJECT NUMBER:** OGS No. 44582 - C  
**PRIME NO.:** 580139  
**DESIGNED BY:** R/V  
**DRAWN BY:** R/V  
**CHECKED BY:** R/V  
**APPROVED BY:** AKL

**SHEET TITLE:** UTILITY PLAN (ZONE 3)  
**DRAWING NUMBER:** C-132





- NOTES**
1. SEE SHEET C-140 FOR GENERAL GRADING NOTES.
  2. SEE SHEETS C-151 AND C-154 FOR GEOMETRY POINT COORDINATES.
  3. SEE SHEETS C-121 FOR SITE WORK INFORMATION.
  4. SEE SHEETS C-131 FOR UTILITY INFORMATION.
  5. SEE SHEET C-161 FOR SIGN LOCATIONS AND PAVERS MARKING INFORMATION.

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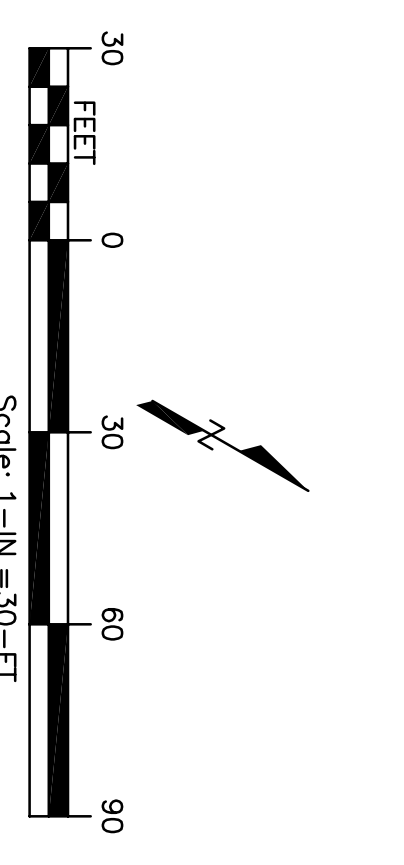
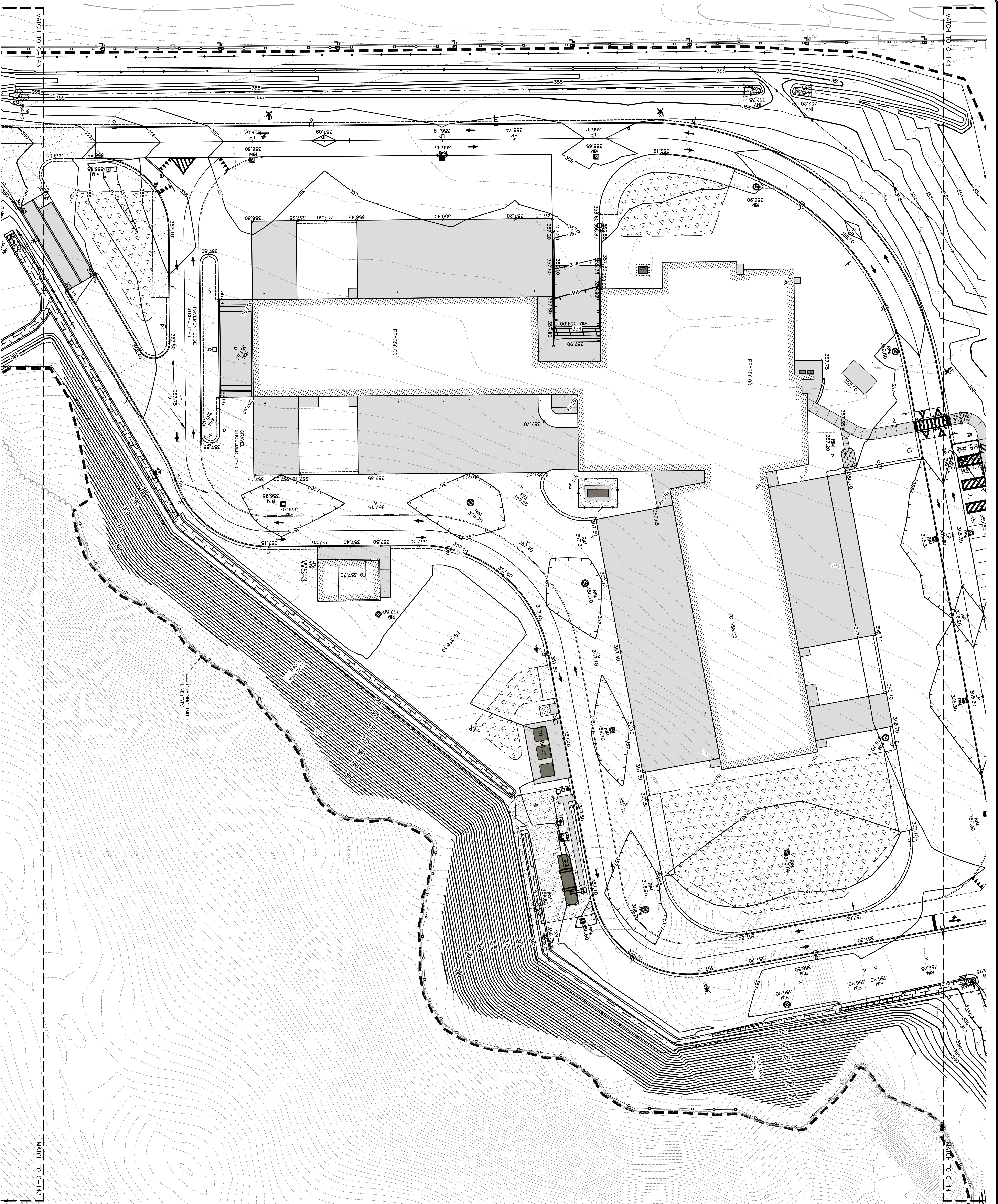
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**GRADING PLAN**  
(ZONE 2)  
**C-141**





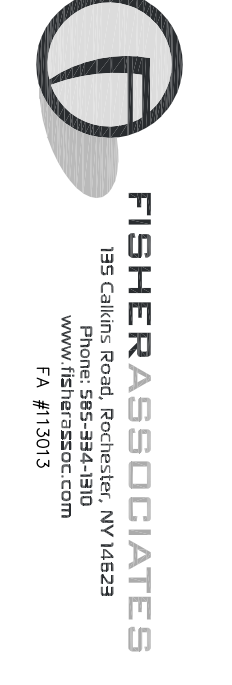
- NOTES**
1. SEE SHEET C-140 FOR GENERAL GRADING NOTES.
  2. SEE SHEETS C-152 AND C-154 FOR GEOTECH POINT COMPONENTS.
  3. SEE SHEET C-122 FOR SITE WORK INFORMATION.
  4. SEE SHEETS C-112 FOR UTILITY INFORMATION.
  5. SEE SHEET C-113 FOR UTILITY INFORMATION.
  6. SEE SHEET C-142 FOR SIGN LOCATIONS AND PAVEMENT MARKING INFORMATION.



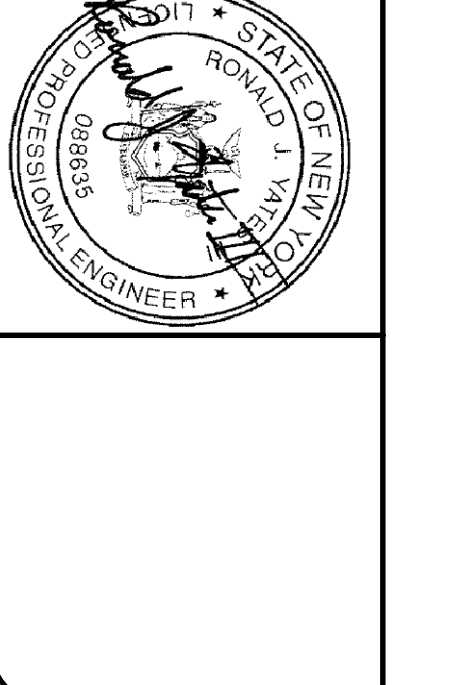
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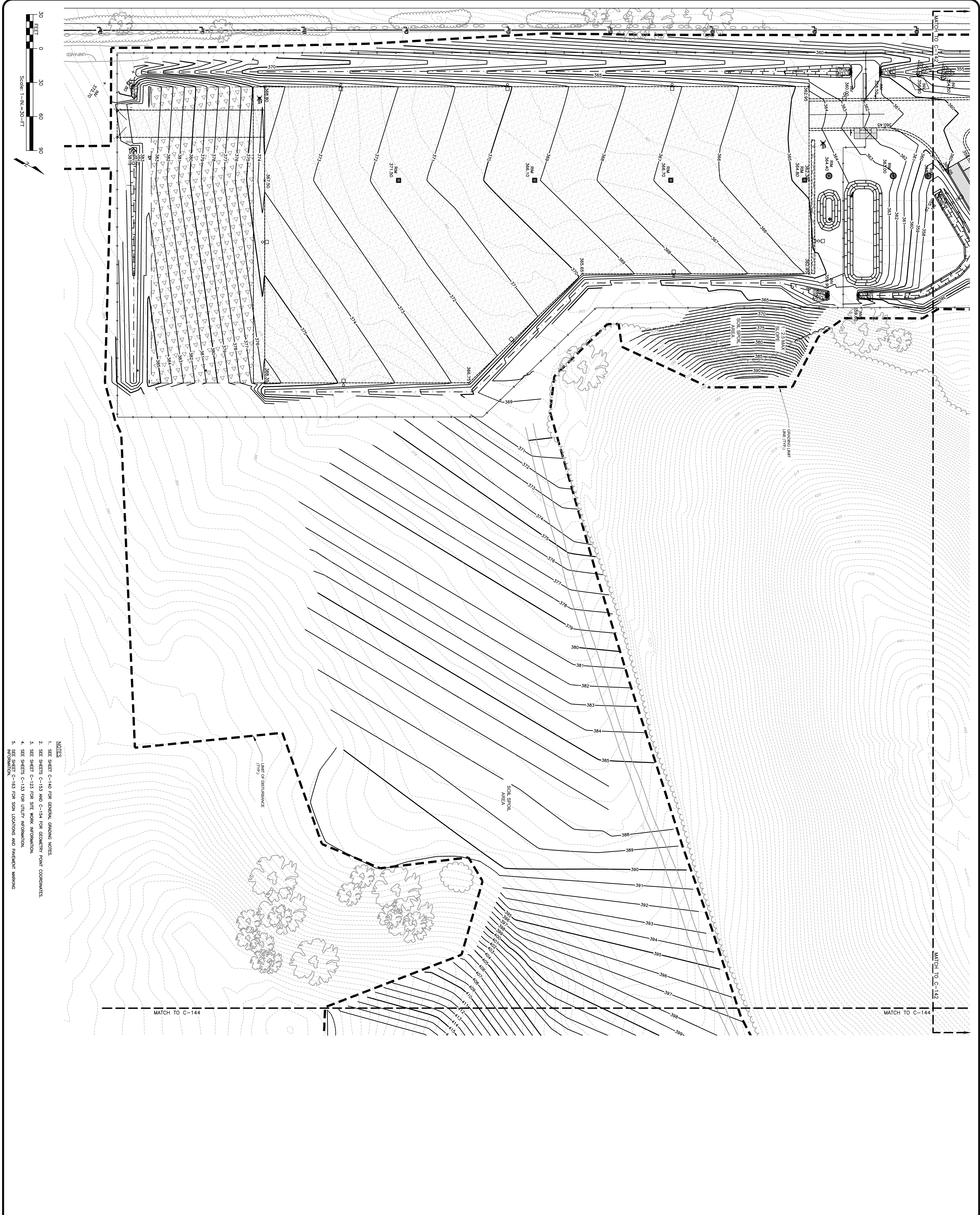
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NO.	DATE	DESCRIPTION
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6-1-2013	REVISION	
005 No. 44582 - C		
PRIDE No. 580139		
DESIGNED BY	RJV	
DRAWN BY	RJV	
CHECKED BY		
APPROVED:	AKL	

**GRADING PLAN**  
 (ZONE 3)

**C-142**





- NOTES**
1. SEE SHEET C-140 FOR GENERAL GRADING NOTES.
  2. SEE SHEETS C-153 AND C-154 FOR GEOMETRY POINT COORDINATES.
  3. SEE SHEET C-123 FOR SITE WORK INFORMATION.
  4. SEE SHEETS C-133 FOR UTILITY INFORMATION.
  5. SEE SHEET C-103 FOR SIGN LOCATIONS AND PAVEMENT MARKING INFORMATION.

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100	6-1-2013	REVISION

PROJECT NUMBER:  
 OGS No. 44882 - C  
 PRIDE No. 580139

DESIGNED BY:  
 RJV

DRAWN BY:  
 RJV

CHECKED BY:  
 AKL

FIELD CHECK:  
 AKL

APPROVED:  
 AKL

SHEET TITLE:  
 GRADING PLAN  
 (ZONE 4)

CONTRACT NUMBER:  
 C-143



**RUNWAY PROTECTION / OBJECT  
FREE ZONES**

PNT	NORTHING	EASTING	DESCRIPTION
1	1001758.44	703227.49	PL OFZ
2	1001888.53	703459.00	OFZ
3	1001846.43	703498.84	OFZ RPZ
4	1001833.09	703511.46	OFZ RPZ
5	1001698.10	703639.19	OFZ RPZ
6	1001598.05	703533.15	OFZ
7	1001551.88	703576.13	OFZ RPZ
8	1001416.20	703429.14	PL OFZ
9	1002461.07	704042.27	RPZ
10	1002387.70	704110.22	RPZ
11	1002204.30	704280.11	RPZ
12	1002130.93	704348.06	RPZ



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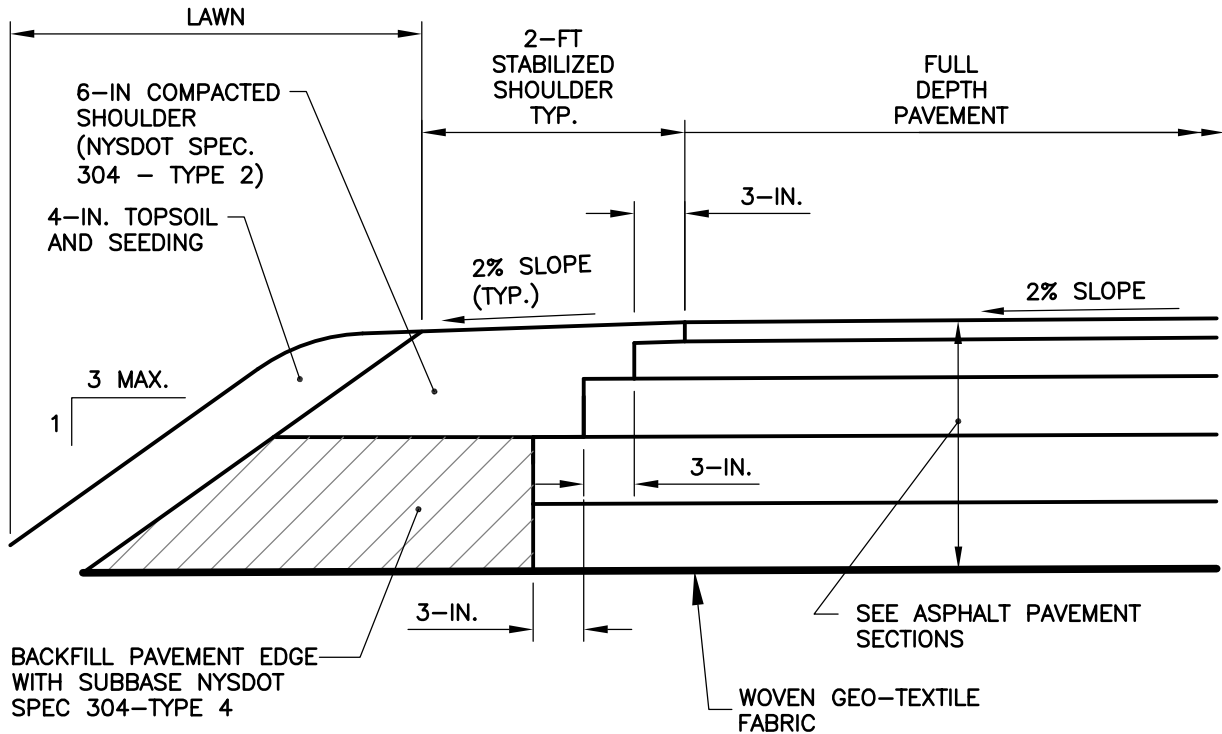
CONTRACT: **CONSTRUCTION**  
 PROJ. NO: **44362-C**  
 DATE: **08/13/13**  
 DRAWN: **RJY**  
 APPROVED: **-**

SHEET TITLE: **CONSTRUCTION  
COORDINATE  
DETAILS**

PROJECT: **PROVIDE COMBINED SUPPORT  
MAINTENANCE SHOP**

WARNING: THE ALTERATION OF THIS MATERIAL IN ANY MANNER, UNLESS DONE UNDER THE DIRECTION OF A COMPETENT PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS 'X' MISDEMEANOR.

DWG NO:  
**C-154A**



### STABILIZED SHOULDER DETAIL

NO SCALE  
(OCCURS AT EDGE OF ALL ASPHALT PAVEMENT SECTIONS)



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CONTRACT: **CONSTRUCTION**  
PROJ. NO: **44362-C**  
DATE: **08/13/13**  
DRAWN: **RJY**  
APPROVED: **-**

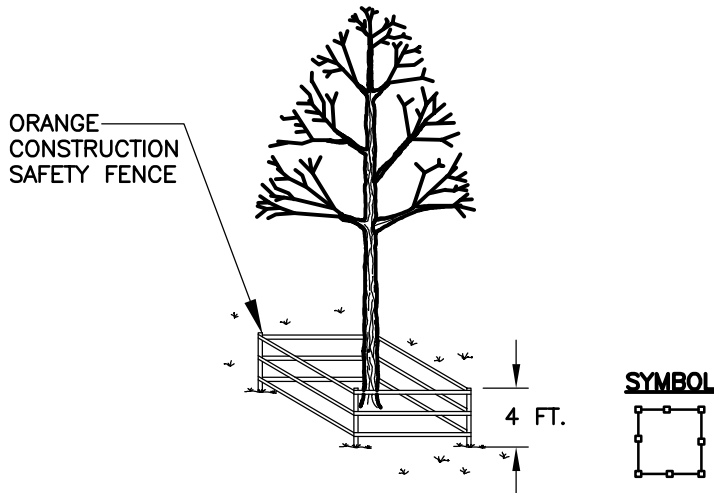
SHEET TITLE: **SITE DETAILS  
SHEET 3**

PROJECT: **PROVIDE COMBINED SUPPORT  
MAINTENANCE SHOP**

WARNING: THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPETENT PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS 'X' MISDEMEANOR.

DWG NO:  
**C-522A**





TREE DIAMETER (DBH)	DISTANCE OF FENCING FROM FACE OF TREE TRUNK
14-IN. OR LESS	10-FT.
15-IN. TO 19-IN.	12-FT.
20-IN. OR MORE	15-FT.

**NOTES:**

1. ALL TREES WITHIN THE PROJECT LIMITS THAT ARE TO REMAIN AS SHOWN ON DRAWING C-110, ARE TO RECEIVE THIS TREATMENT.
2. DO NOT LEAVE CONSTRUCTION EQUIPMENT RUNNING (IDLING) UNDER THE TREE CANOPIES.
3. THERE SHALL BE NO STORAGE OF MATERIALS BENEATH TREES.

**TYPICAL TREE PROTECTION DETAIL**

NO SCALE



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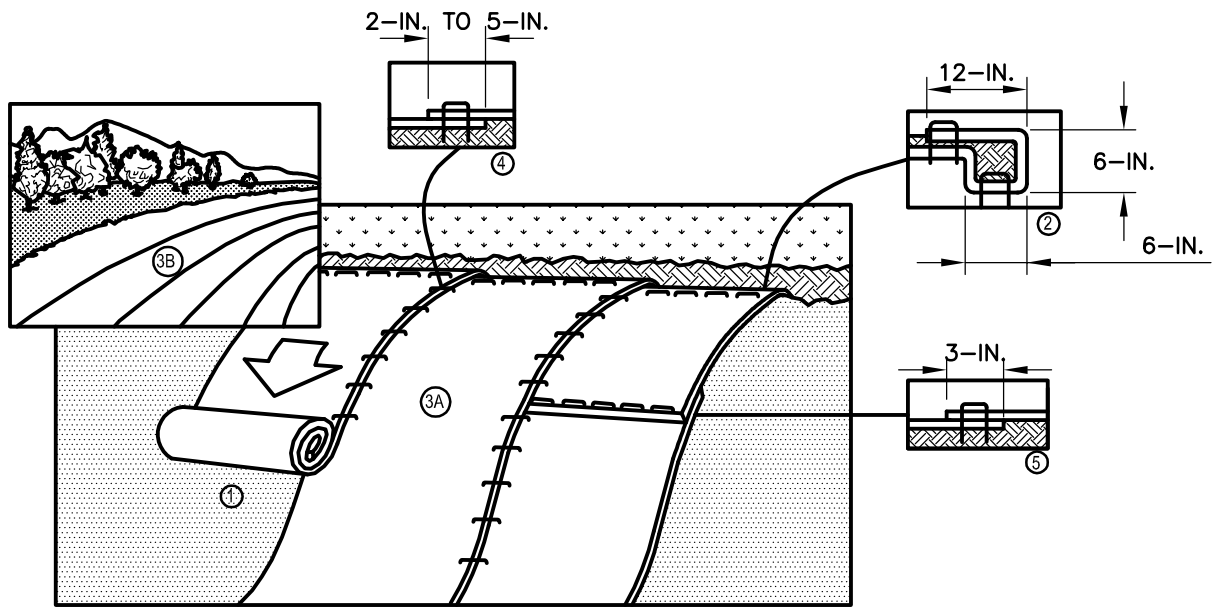
CONTRACT: **CONSTRUCTION**  
 PROJ. NO: **44362-C**  
 DATE: **08/13/13**  
 DRAWN: **RJY**  
 APPROVED: **-**

SHEET TITLE: **EROSION CONTROL  
 DETAILS AND  
 SWPPP NOTES**

PROJECT: **PROVIDE COMBINED SUPPORT  
 MAINTENANCE SHOP**

WARNING: THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPETENT PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS 'X' MISDEMEANOR.

DWG NO:  
**C-540A**



**SLOPE INSTALLATION**

**APPLICATION NOTES:**

1. SLOPE STABILIZATION FABRIC SHALL BE PROVIDED ON SLOPES THAT ARE 3-HORIZONTAL TO 1-VERTICAL OR STEEPER, AND ON AREAS THAT ARE NOT ABLE TO ACHIEVE STABILIZATION BY SEEDING AND MULCHING ALONE.

**CONSTRUCTION SPECIFICATIONS:**

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6-IN. (15CM) DEEP X 6-IN. (15CM) WIDE TRENCH WITH APPROXIMATELY 12-IN. (30CM) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12-IN. (30CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12-IN. (30CM) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12-IN. (30CM) APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/ STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2-IN. TO 5-IN. (5CM-12.5CM) OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3-IN. (7.5CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12-IN. (30CM) APART ACROSS ENTIRE BLANKET WIDTH.

**GENERAL NOTES:**

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWINGS.
3. IN LOOSE SOIL CONDITIONS THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6-IN. (15CM) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
4. EROSION CONTROL BLANKETS INSTALLED ON SLOPES SHALL BE NORTH AMERICAN GREEN SC-150 OR APPROVED EQUAL.

**SLOPE STABILIZATION FABRIC INSTALLATION DETAIL**

NOT TO SCALE



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CONTRACT:	<b>CONSTRUCTION</b>
PROJ. NO:	<b>44362-C</b>
DATE:	<b>08/13/13</b>
DRAWN:	<b>RJY</b>
APPROVED:	<b>-</b>

SHEET TITLE: **EROSION CONTROL  
DETAILS AND  
SWPPP NOTES**

PROJECT: **PROVIDE COMBINED SUPPORT  
MAINTENANCE SHOP**

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DWG NO:  
**C-540B**