

**Edition 2011**

**SUPPLEMENTARY SPECIFICATIONS  
FOR  
SHEA CENTER ENTRANCE IMPROVEMENTS  
AT WILLIAM PATERSON UNIVERSITY  
IN THE TOWNSHIP OF WAYNE  
COUNTY OF PASSAIC**

**AUTHORIZATION OF CONTRACT**

The contract for this project is authorized by the provisions of local public contracts law, NJSA 40A: 11-1 et seq.

**SPECIFICATIONS TO BE USED**

The 2007 Standard Specifications for Road and Bridge Construction, of the New Jersey Department of Transportation and as amended herein, shall govern the construction of this project.

**WAGE RATES**

The contractor shall pay the minimum wage rates determined by the New Jersey Department of Labor.

State wage rates may be obtained from the New Jersey Department of Labor (Telephone: 609-292-2259) or by accessing the Department of Labor's web site at [http://lwd.dol.state.nj.us/labor/wagehour/wagehour\\_index.html](http://lwd.dol.state.nj.us/labor/wagehour/wagehour_index.html). The State wage rates in effect at the time of award will be made a part of this Contract, pursuant to Chapter 150, Laws of 1963 (NJSA 34:11-56.25, *et seq.*).

In the event it is found that any employee of the contractor or any subcontractor covered by the contract, has been paid a rate of wages less than the minimum wage required to be paid by the contract, the contracting agency may terminate the contractor's or subcontractor's right to proceed with the work, or such part of the work, as to which there has been a failure to pay required wages and to prosecute the work to completion or otherwise. The contractor and his sureties shall be liable to the contracting agency for any excess costs occasioned thereby.

## **GENERAL**

Award of contract and subletting will not be permitted to, materials will not be permitted from, and use of equipment will not be permitted that is owned and/or operated by, firms and individuals included in the report of suspensions, debarments and disqualifications of firms and individuals as maintained by the Department of the Treasury, General Services Administration, CN-039, Trenton NJ 08625 (609-292-5400).

Payment for a pay item in the proposal includes all the compensation that will be made for the work of that item as described in the contract documents unless the "Measurement and Payment" section provides that certain work essential to that item will be paid for under another pay item.

Whenever any section, subsection, subpart or subheading is amended by such terms as changed to, deleted or added it is construed to mean that it amends that section, subsection, subpart or subheading of the 2007 Standard Specifications unless otherwise noted.

Whenever reference to page number is made, it is construed to refer to the 2007 Standard Specifications unless otherwise noted.

Henceforth in this supplementary specification whenever reference to the State, Department, ME, RE or Inspector is made, it is construed to mean the particular municipality or county executing this contract.

Whenever reference to Title 27 is made, it is construed to mean Title 40.

## **DIVISION 100 - GENERAL PROVISIONS**

### **SECTION 101 - GENERAL INFORMATION**

#### **101.03 TERMS**

THE FOLLOWING IS ADDED:

PARCEL. Property to be acquired for transportation purposes, described by metes and bounds.

#### **101.04 INQUIRIES REGARDING THE PROJECT**

THE FOLLOWING IS ADDED TO THIS SUBSECTION:

Direct inquiries regarding the various types of work to the following representatives of the Department:

##### **1. Before Award of the Contract**

Mr. Christopher J. Nash, P.E.  
Boswell McClave Engineering  
330 Phillips Avenue  
South Hackensack, New Jersey 07606  
Phone (201) 373-8904  
Fax (201) 641-1831

All inquiries must include the following:

- a. Name of the company;
- b. Telephone number, fax number, and contact person; and
- c. Specifics of the inquiry, including anticipated impacts.

The Department will investigate the information provided in the inquiry and then respond through an addendum only if determined to be necessary.

##### **2. After Award of the Contract**

Mr. Bill Siegrist  
Associate Director  
Capital Planning, Design & Construction  
William Paterson University  
300 Pompton Road  
Wayne, NJ 07470  
Phone (973) 720-3363

## **SECTION 105 - CONTROL OF WORK**

### **105.07 COOPERATION WITH UTILITIES**

THE FOLLOWING IS ADDED BEFORE THE FIRST PARAGRAPH:

The corporations, companies, agencies, or municipalities owning or controlling the utilities, and the name, title, address, and telephone number of their local representative are as listed in Appendix B.

Bidders are advised to verify the above information; its accuracy and completeness are not guaranteed.

## **SECTION 158 – SOIL EROSION AND SEDIMENT CONTROL**

### **158.04 MEASUREMENT AND PAYMENT**

THIS SUBSECTION IS CHANGED TO THE FOLLOWING:

Soil erosion and sediment control measures will not be measured for separate payment.

THE LIST OF PAY ITEMS IS DELETED AND THE FOLLOWING IS ADDED:

Soil erosion and sediment control measures will not be measured for separate payment but the cost will be included in the unit price bid for the various items in the proposal.

## **DIVISION 600 - MISCELLANEOUS CONSTRUCTION**

### **SECTION 606 – SIDEWALKS, DRIVEWAYS, AND ISLANDS**

THE FOLLOWING IS ADDED TO THIS SECTION:

The Contractor shall construct all sidewalks, handicap ramps and pedestrian facilities within the public right-of-way or easements in full compliance with the “Proposed Accessibility Guidelines for Pedestrian Facilities in the Public “Right-of-Way” located at <http://www.access-board.gov/prowac/nprm.htm> as published in the Federal Register on July 26, 2011 and the Manual on Uniform Traffic Control Devices (MUTCD). Workmanship and materials shall be in conformance with the New Jersey Department of Transportation Standard Specifications for Road and Bridge Construction as amended and supplemented by County and/or Municipal requirements. The Contractor is notified that the improperly constructed ramps and facilities, as determined by the Municipality and/or County, will require replacement with compliant ramps and facilities at the sole cost and expense of the Contractor.

THE FOLLOWING SECTION IS ADDED:

### **SECTION 615 – EXTERIOR STUCCO FINISH**

#### **615.01 DESCRIPTION**

This section describes the requirements for removal of existing stucco finish and constructing an exterior stucco finish on the existing masonry walls.

#### **615.02 MATERIALS**

##### **615.02.01 Materials**

- A.** Base Coat shall be a copolymer based, factory blend of cement and proprietary ingredients.
- B.** Reinforcing Mesh: Weight 4.5 oz. per sq. yd.; coated for protection against alkali.
- C.** Primer: 100% acrylic based coating to prepare surfaces for stucco finishes.
- D.** Finish shall be a factory blended, 100% acrylic polymer based, integrally colored finish. Finish type, texture and color as selected by Owner.
- E.** Water shall be clean, cool, potable water.
- F.** Portland Cement shall conform to ASTM C 150, Type I or Type I-II.
- G.** Manufacturers:

1. Parex USA, Anaheim, CA, 92807, Tel No. (714) 778-2266, or,

2. California Stucco Products, Hackensack, NJ 07601, Tel No. (201)457-1900, or,
3. QUIKRETE, Atlanta, GA 30305, Tel No. (404) 634-9100, or,
4. Approved Equal.

#### **615.02.01 Related Materials**

- A.** Concrete Masonry Units (CMU): Non-painted (uncoated).
- B.** Flashing:
  1. Copper Sheet: ASTM B 370, Temper H00 or H01, cold-rolled copper sheet.
  2. Aluminum Sheet: ASTM B 209, Alloy 3003, 3004, 3105, or 5005, Temper suitable for forming and structural performance required, but not less than H14, with a Mill Finish, Standard one-side bright.
  3. Stainless-Steel Sheet: ASTM A 240/A 240M, Type 304 with a Finish, No. 2B (bright, reflective).
- C.** Sealant System:

Sealant for perimeter seals around window and door frames and other wall penetrations shall be low modulus, designed for minimum 50% elongation and minimum 25% compression, and as selected by Project Designer.

  1. Sealants shall conform to ASTM C920, Grade NS.
  2. Expansion joints between sections of stucco shall have a minimum width of  $\frac{3}{4}$  in.
  3. Perimeter seal joints shall be a minimum width of  $\frac{1}{2}$  in.
  4. Sealant backer rod shall be closed-cell polyethylene foam.
  5. Refer to manufacturer's current bulletins for listing of sealants which have been tested and have been found to be compatible with manufacturer's stucco system.
  6. Color shall be as selected by the Owner.
  7. Joint design, surface preparation, and sealant primer shall be based on sealant manufacturer's recommendations and project conditions.

#### **615.01 CONSTRUCTION**

##### **615.03.01 Examination**

- A.** Verify project site conditions.
- B.** Comply with manufacturer's instructions for installation of exterior stucco finish system.
- C.** Substrate Examination: Examine prior to System installation as follows:
  1. Substrate shall be examined for soundness and other harmful conditions.
  2. Substrate shall be free of dust, dirt, laitance, efflorescence, and other harmful contaminants.

3. Substrate construction in accordance with substrate material manufacturer's specifications and applicable building codes.
- D. Sealants and Backer Rods shall be installed, where required, in accordance with the sealant manufacturer's specifications and published literature, and using the sealant manufacturer's recommended primers.

#### **615.03.02 Preparation**

- A. Protect surrounding material surfaces and areas during installation of system.
- B. Remove all existing finishes including but not limited to stucco and paint.
- C. Clean surfaces thoroughly prior to installation.
- D. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

#### **615.03.03 Mixing**

- A. Mix proprietary products in accordance with manufacturer's instructions.

#### **615.03.04 Application**

- A. Installation shall conform to this specification and manufacturer's Application Guide, written instructions and drawing details.
- B. Apply base coat and fully embed mesh in base coat; include diagonal mesh patches at corners of openings and reinforcing mesh patches at joints of track sections. Apply multiple layers of base coat and mesh where required for specified impact resistance classification.
- C. Apply primer to base coat after drying. Primer may be omitted if it is not required by the manufacturer's product data sheets for the specified finish coat or otherwise specified for the project.
- D. Finish coat: Apply finish coat to match specified finish type, texture, and color. Do not apply finish coat to surfaces to receive sealant. Keep finish out of sealant joint gaps.

#### **615.03.05 Clean-up**

- A. Remove and legally dispose of all excess materials and debris material from the job site.
- B. Clean stucco surfaces and work area of foreign materials resulting from stucco installation operations.

#### **615.03.06 Protection**

- A. Provide protection of installed materials from water infiltration into or behind them.
- B. Provide protection of installed stucco from dust, dirt, precipitation, and freezing during installation.
- C. Provide protection of installed finish from dust, dirt, precipitation, freezing and continuous high humidity until fully cured and dry.

- D. Clean exposed surfaces using materials and methods recommended by the manufacturer of the material or product being cleaned. Remove and replace work that cannot be cleaned to the satisfaction of the Owner.

**615.04 MEASUREMENT AND PAYMENT**

<i>Item</i>	<i>Pay Unit</i>
REMOVE AND REPLACE STUCCO WALL FINISH	SQUARE FEET

The bid item for Exterior Stucco Finish shall include the temporary removal and reinstallation of all existing elements attached to the existing walls including but not limited to handrails, plaques, lights, and receptacles. This item shall also include all work required to remove the existing wall finishes and other work necessary to prepare the wall surfaces for the installation of the stucco finish.

THE FOLLOWING SECTION IS ADDED:

**SECTION 616 – RESET MASONRY**

**616.01 DESCRIPTION**

This section describes the requirements for removing, cleaning, and resetting stone masonry for stair facings and wall caps.

**616.02 MATERIALS**

**616.02.01 Materials**

Provide materials as specified.

Mortar .....	903.08.01
Grout.....	903.08.02B
Stone Cap.....	910.07
Stone Stair Facing .....	910.08
Joint Sealer.....	914.02
Water .....	919.08

The stone anchoring system shall consist of corrosion resistant steel.

Certificates of compliance shall be furnished in accordance with subsection 106.07 for all materials. Sample product data and material specifications shall be submitted by the contractor with the certificates of compliance for material requested for consideration as “approved equals”.

Brands of cementitious materials and admixtures, and the source of supply of masonry sand shall remain the same throughout the entire project.

Catalog cuts shall be submitted for all proprietary products, hardware and accessories.



**616.01 CONSTRUCTION**

**616.03.01 Cap Stone Removal and Replacement**

- A.** Carefully remove without damaging cap stones where shown on the plans.
- B.** Cap stones shall be cleaned of foreign materials including but not limited to mortar, joint sealers, and paint.
- C.** Make repairs if necessary to the existing masonry wall.
- D.** Install flashing.
- E.** Install cap stones with two component adhesive anchoring system.
- F.** Seal all joints with elastomeric sealer.

**616.04 MEASUREMENT AND PAYMENT**

<i>Item</i>	<i>Pay Unit</i>
CLEAN AND RESET BLUESTONE CAP	LINEAR FEET

The contractor shall be responsible for all damage to the stone to be removed. If the stone is damaged by the Contractors operations, it shall be replaced at no cost to the owner.

The bid item Clean and Reset Bluestone Cap shall be measured along the centerline of the cap stones. The cost of bluestone cap, dowels, drilling, and two component adhesive anchoring system shall be included in the unit bid price for the item bluestone cap. This shall also include all costs for cleaning and flashing.

## **DIVISION 900 – MATERIALS**

### **SECTION 903 – CONCRETE**

#### **903.02.02 CHEMICAL ADMIXTURES**

THE FOLLOWING IS ADDED TO THIS SUBSECTION:

Corrosion inhibitor products that are to be used in the fabrication of concrete Items will be as follows:

Calcium Nitrite Based as produced by  
W.R. Grace & Company  
2133 85<sup>th</sup> Street  
North Bergen, NJ 07047  
Telephone: 201-869-5220

Calcium Nitrite Based as produced by  
The Euclid Chemical Company  
5 Joanna Court  
East Brunswick, NJ 08816  
Telephone: 732-390-9770

Calcium Nitrite Based as produced by  
Master Builders Inc.  
798 Welsh Road  
Huntingdon Valley, PA 19006  
Telephone: 215-938-7501

Calcium Nitrite Based as produced by  
SIKA Corporation  
201 Polito Avenue  
Lyndhurst, NJ 07071  
Telephone: 800 - 933 - Sika (7452)

Calcium Nitrite Based as produced by  
Great Eastern Technologies, LLC  
"Chem Strong CI"  
515 Route 528  
P. O. Box 3015  
Lakewood, NJ 08701  
Telephone: 888 - 452 – 9348

## **SECTION 910 – MASONRY UNITS**

THE FOLLOWING SUBSECTIONS ARE ADDED:

### **910.07 STONE CAP**

The existing stone cap shall be reused. If existing stones are damaged, the contractor shall provide replacement stones of similar size, color, and lithology. This stone shall be sound, durable and free from flaws, discoloration and structural defects. Samples indicating the range of color, texture, shape and size of the stone for use on this project shall be submitted to the engineer for approval.

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## **APPENDIX A: PREVAILING WAGE RATES**

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# **Notice**

## **TO ALL PUBLIC WORKS EMPLOYERS:**

Please be advised that effective February 18, 1992, Regulation N.J.A.C. 12:60-2.1 and 6.1 of the New Jersey Prevailing Wage Act, N.J.S.A. 34:11-56.25 et seq. requires that certified payroll records must be submitted to the public body for each employee on the project. The General Contractor is responsible for ensuring that each sub-contractor submits the certified payroll within ten (10) days of the payment of wages. The public body shall receive, file and make available for inspection during normal business hours the certified payroll records.

A copy of the certified payroll form may be obtained by contacting the New Jersey Department of Labor, Division of Workplace Standards, Public Contracts Section, P.O. Box 389, Trenton, NJ 08625-0389, telephone (609) 292-2259.

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## **APPENDIX B: PUBLIC UTILITIES**

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**TOWNSHIP OF WAYNE  
PUBLIC UTILITIES**

The following is a list of all corporations, companies, agencies or municipalities owning or controlling the utilities in the vicinity of the project site, and the name, address and telephone number of their local representatives:

Electric  
Public Service Electric and Gas Company  
150 Circle Avenue  
Clifton, NJ 07011  
Attn: Mr. Charles King  
Tel: (973) 365-2810

Gas  
Public Service Electric and Gas Company  
20 Van Vooren Drive  
Oakland, NJ 07436  
Attn: Mr. Paul Caffery  
Tel: (201) 337-2527

Telephone  
6000 Hadley Rd  
03 Floor Room T-12  
South Plainfield, New Jersey 07080  
Attn: Elhadji Gueye,  
Email: Elhadji.1.Gueye@one.verizon.com  
Tel: (908) 412-6171

Water  
Division of Water and Sewer  
201 Dey Road  
Wayne, NJ 07470  
Attn: Mrs. Heather Vitz-Del Rio, P.E.  
Tel: (973)694-5090 Ext. 4217  
Fax: (973) 628-5377

Cable  
Cablevision  
159 Windermere Ave.  
Greenwood Lake, NY 19025  
Tel.: (845) 395-0244

Notification of major utilities for markout may be accomplished by calling Garden State Underground Location Service at 1-800-272-1000.

## **PSE&G's PROCEDURE FOR RESETTING OR REPLACING OF MANHOLE FRAMES AND COVERS.**

Please be advised that the following steps need to be maintained in order to meet local milling and paving schedules.

Once the contract has been awarded, your contractor should:

- Contact Public Service Electric & Gas (Engineering) 4 to 6 weeks prior to milling to discuss the scope of the project. Sufficient lead-time is essential in obtaining materials and coordinating schedules between PSE&G and local paving projects.
- Provide milling schedule. Project specific dates are required in hard copy.
- Conduct a walk through with job sponsor to identify resets and/or replacements. Please be advised that the final decision to replace facilities due to its condition resides with PSE&G.
- Provide reset elevations to PSE&G's contractor.

Once this information is received, the PSE&G job sponsor will order material (if required) in accordance with vendors lead time and schedule our contractor to complete manhole resets or replacements immediately following the milling process.

The successful contractor should proceed with care; damage to existing facilities or debris contaminating PSE&G manholes and or transformer vaults will be repaired or remedied at the contractor's expense.

Please be aware of the Underground Facilities Protection Act, codified NJSA 48:2-73 to 91, which requires contractors to notify "New Jersey One-Call" for utility markout "New Jersey One Call" Can be reached at 1-800-272-1000. PSE&G's contractor cannot begin work until four (4) business days after the markout request.

Please bring to the successful contractor's attention in New Jersey High Voltage Proximity Act, codified at N.J.S.A. 34:6-47.1 to 47.10, concerning precautions to be taken when working the proximity of high voltage wires.

In addition, we would also recommend that the contractor review the requirements for operators of construction equipment under the Occupational Safety and Health Act of 1970 (OSHA) and of Subpart "N", Paragraph 1926.550 of the Rules and Regulations issued thereunder and codified at 29 CFR 1926.550, which, in part, requires different working clearance than the State Law.

If you should have any questions, please contact me at (201) 330-6629 or [Richard.dwyer@pseg.com](mailto:Richard.dwyer@pseg.com).



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## **APPENDIX C: STANDARD CONSTRUCTION DETAILS**

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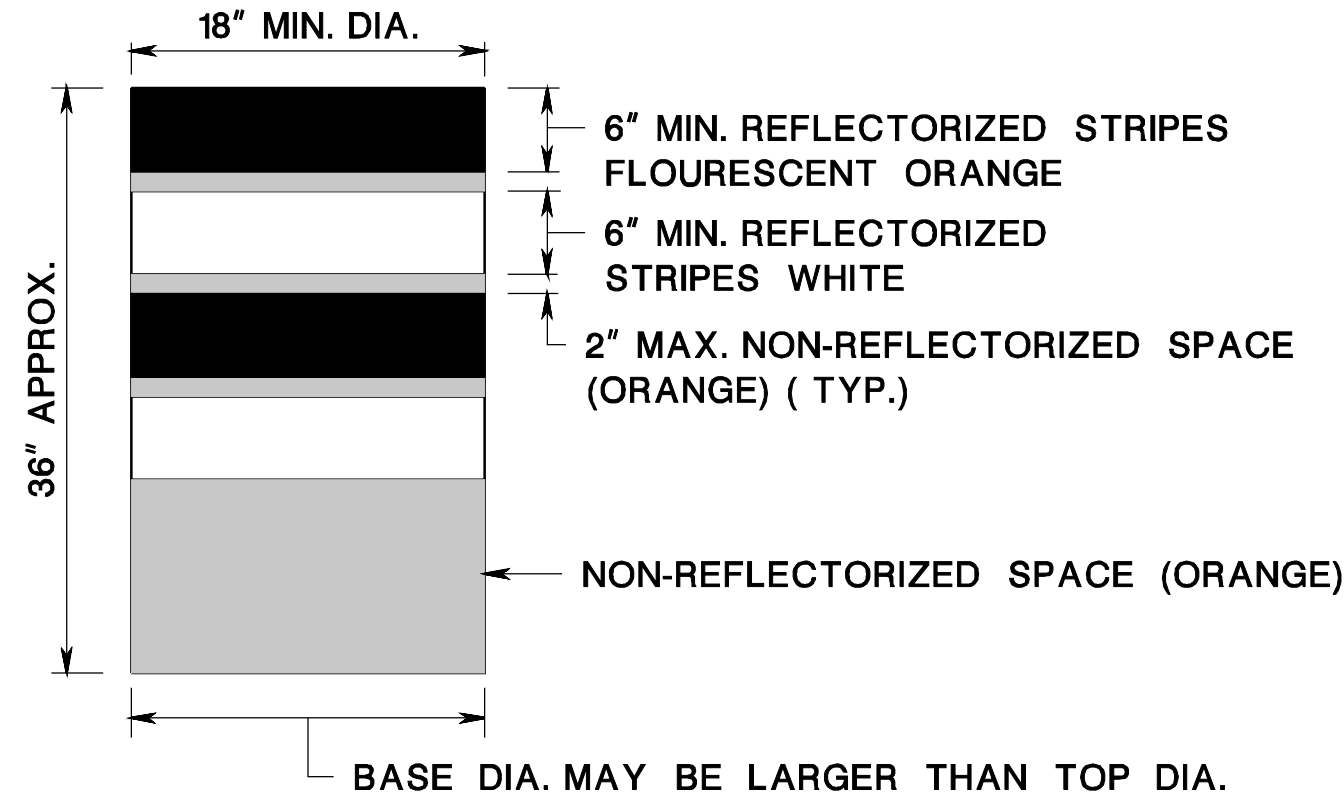
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BD007D-01-ORIGINAL SHEET

DRUMS SHALL BE MADE OF ORANGE PLASTIC WITH A MINIMUM OF FOUR ALTERNATE FLUORESCENT ORANGE AND WHITE RETROREFLECTIVE STRIPES. IF THERE ARE NON-REFLECTORIZED SPACES BETWEEN THE STRIPES, THEY SHALL BE NO MORE THAN 2" WIDE. RETROREFLECTIVE SHEETING FOR STRIPES SHALL CONFORM WITH ASTM D 4956 TYPE VII OR VIII WITH S2 REQUIREMENTS.

THE TOP OF THE DRUM SHALL NOT BE OPEN. DRUMS SHALL BE CONSTRUCTED TO INHIBIT ROLLING IF KNOCKED OVER.

THE REFLECTORIZED AREA OF DRUMS SHALL BE ROUND EXCEPT THAT OTHER SHAPES, WHICH PROVIDE THE SAME VISIBILITY AS AN 18 INCH DIAMETER ROUND DRUM REGARDLESS OF ORIENTATION, MAY BE USED.



WHEN BALLAST IS REQUIRED BY THE R.E., SAND SHALL BE USED. THE MAXIMUM WEIGHT OF THE BALLAST SHALL BE 50 LBS. AND BE LOCATED APPROXIMATELY AT GROUND LEVEL. ALTERNATE TYPES OF BALLAST SHALL BE APPROVED BY THE R.E..

### DRUMS

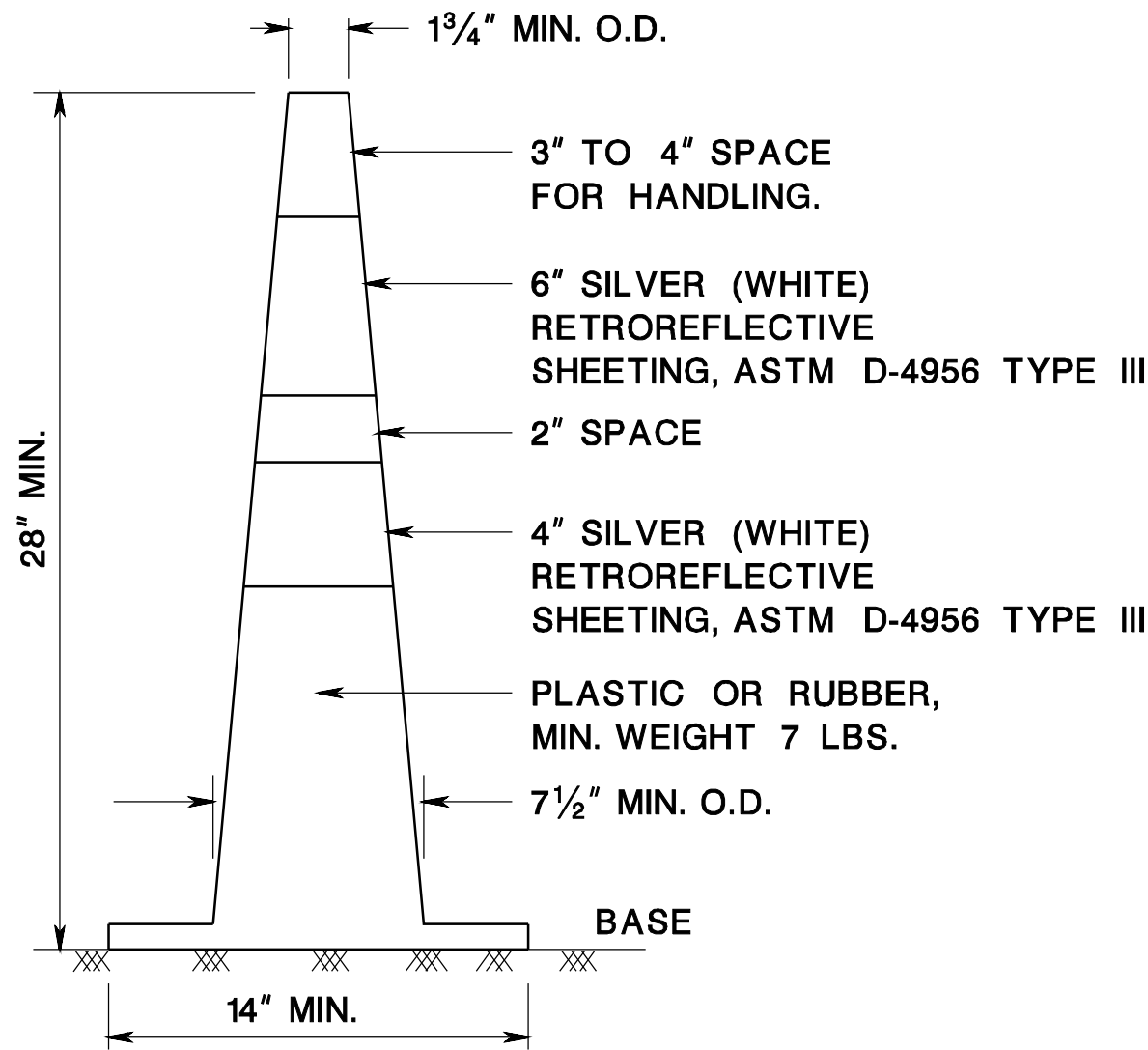
CD-159-1.1

#### NOTES:

TRAFFIC CONES SHALL BE PREDOMINATELY ORANGE IN COLOR.

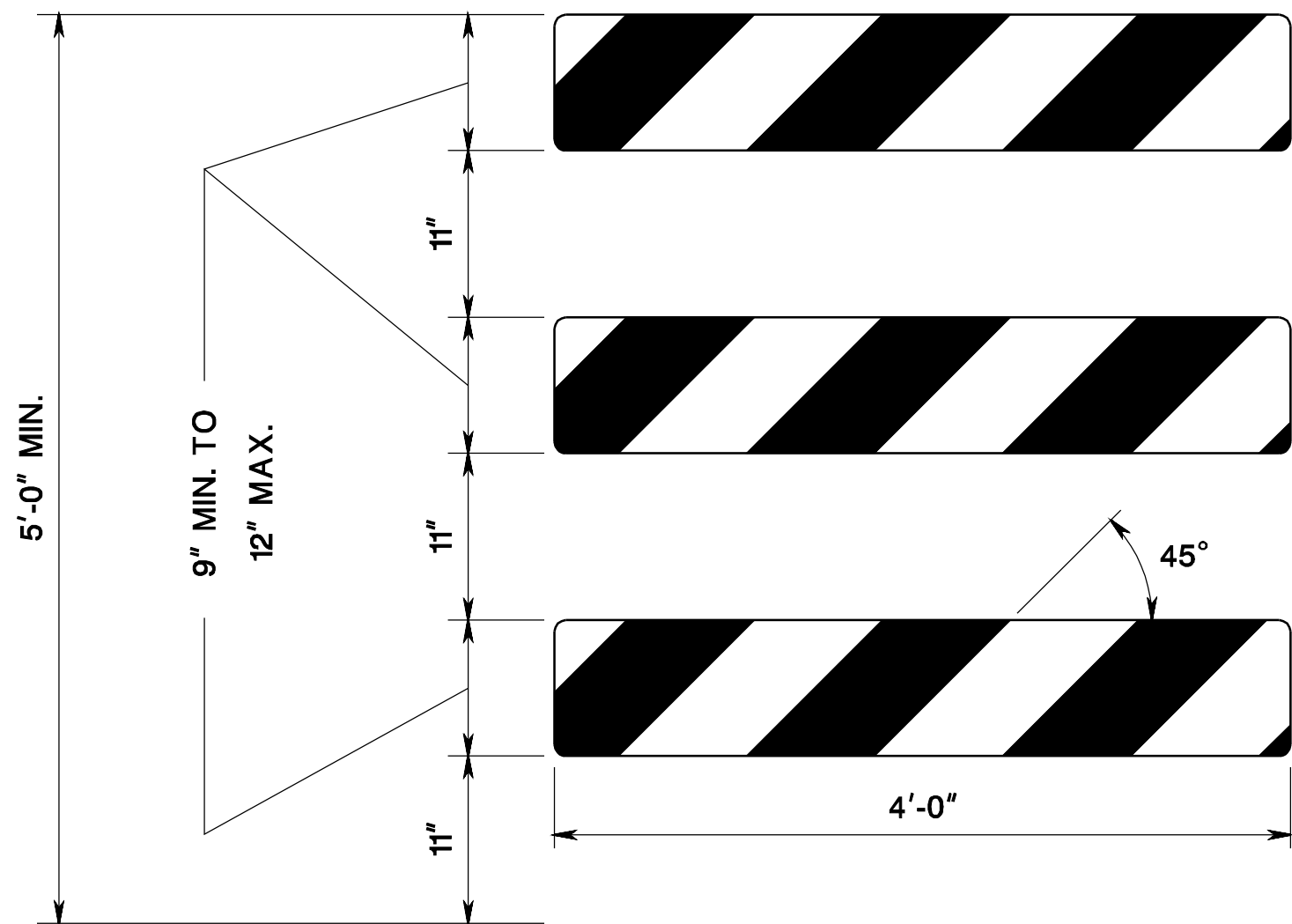
BASES MAY BE OF BREAKAWAY BALLASTED TYPE.

MINOR MANUFACTURER'S VARIATIONS MAY BE ACCEPTABLE UPON APPROVAL OF THE ENGINEER.



### TRAFFIC CONES

CD-159-1.2



#### TYPE III BARRICADE – FRONT VIEW

#### NOTES:

1. THE 9" MIN. x 48", OR 12" MAX. x 48" BARRICADE RAILS SHALL BE FABRICATED FROM 0.125" MAX. PLASTIC SHEETING AND SHALL BE ATTACHED, 4 PER RAIL, WITH 1 INCH NO. 14 PAN HEAD METAL SCREWS OR PLASTIC RIVETS. ALL CORNERS SHALL BE ROUNDED.
2. ORANGE AND SILVER (WHITE) STRIPES SHALL BE RETROREFLECTIVE SHEETING, ASTM D 4956 TYPE III, AS SHOWN FOR CONSTRUCTION SIGNS. ALTERNATE ORANGE AND SILVER (WHITE) STRIPES 6" WIDE SLOPING DOWNWARD AT AN ANGLE OF 45 DEGREES IN THE DIRECTION TRAFFIC IS TO PASS.
3. IF NECESSARY, THE SANDBAGS SHALL BE FABRICATED AND PLACED ACCORDING TO THE MANUFACTURE'S RECOMMENDATION.
4. THE FRAMING FOR BARRICADE PANELS SHALL BE NCHRP-350 CRASHED TESTED AND FHWA APPROVED.

### BREAKAWAY BARRICADES

CD-159-1.3

## TRAFFIC CONTROL DEVICES

N.T.S.

CD-159-1

NEW JERSEY DEPARTMENT OF TRANSPORTATION

## CONSTRUCTION DETAILS