Natural Sand Company, Inc.
4783 Harlansburg Road
Slippery Rock, PA 16057
866-867-0052 (Fax) 724-530-6696
E-mail: sales@naturalsand.com
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SECTION 1

INFIELD SKIN SURFACE

PRO SPECIFICATION

PART 1 – GENERAL

1.1 SUMMARY

A. This section includes the material and labor requirements for construction of a complete infield skin surface for the following items:

1. DuraEdge Pro Infield Mix

B. Related Sections

1. Site Preparation
2. Earthwork

1.2 SUBMITTALS

A. Product Data: For the product specified, submit a 5-pound sample along with a private lab test result indicating the particle size analysis of the material specified. All tests shall be performed in accordance with ASTM F-1632.

B. Approved Testing Lab: Hummel and Company, Inc.
Attn: Norm Hummel
35 King Street
Trumansburg, NY 14886
607-387-5694

1.3 PROJECT/SITE CONDITIONS

A. All site work and earthwork shall be performed in accordance with the preceding sections. Sub base material shall compact to 90 percent. If conditions do not warrant such compaction then an imported select granular fill shall be installed. Furthermore, the compacted subgrade shall be installed in accordance with the final slope and shall mirror finish grade in order to ensure an even depth of material once placement has occurred.

B. Under no circumstances are perforated pipe under drains necessary or recommended for use under any infield skin material. Geotextile fabric is not recommended between the compacted sub base and the infield skin material.

C. In certain instances, and where warranted, a survey of the subgrade elevations shall occur prior to placement of the infield skin material.

1.4 QUALITY ASSURANCE

A. Installer Qualifications: Installers of materials specified shall have, at minimum, five successful installations of similar projects and materials. Installers shall be in possession of and demonstrate knowledge of the use of laser guided finishing equipment.

B. Material: If quality control samples are specified, they shall be completed at a rate of one per 250 tons of material delivered to the jobsite. All tests shall be conducted by the lab specified in Section 1.2 (B). All testing will be compared to and be in accordance with the material specifications provided in Section 2.2.

PART 2 – PRODUCT

2.1 MANUFACTURERS

A. DuraEdge Pro Infield Mix is produced in various locations throughout the United States of America by and at the direction of the following manufacturer:

1. Natural Sand Company, Inc.
   4783 Harlansburg Rd. Slippery Rock, PA 16057
   866-867-0052 (Fax) 724-530-6696
   e-mail: info@naturalsand.com
   www.naturalsand.com

2.2 MATERIALS

A. DuraEdge Pro Infield Mix is an engineered soil product which is mechanically mixed offsite in a controlled environment using a pugmill-type mixer. This process ensures thorough mixing of the sand and clay components to exact specifications.

B. Performance Specification

1. Infield mix shall be clean, dry clay mixed with washed mason-type sand resulting in a weed-free mixture that is reddish brown in color having a yield of 1.35 tons per cubic yard and possessing the following particle size analysis:

   a. Total sand content shall be 58-62 percent.

   b. The combined amount of sand retained on the medium, coarse and very coarse sieves shall be 38-45 percent.

   c. The combined amount of silt and clay shall be 38-42 percent.

   d. The ratio of silt divided by clay, otherwise known as the SCR, shall be 0.5 – 1.0.

   e. No particles greater than 3 millimeters.

   f. Equal to or less than 5 percent of particles shall be retained on the 2 millimeter.

Materials meeting this specification would be DuraEdge Pro Infield Mix as manufactured by Natural Sand Company, Inc., Slippery Rock, Pa., 866-867-0052, or an approved equal.

C. Amendments

1. Certain amendments are approved for use with DuraEdge Pro Infield Mix and shall be installed at the architect's discretion in accordance with the manufacturer's recommendations. Contact the manufacturer for further instructions.

2.3 EXCESS MATERIALS

A. Provide the owners' authorized representative with a 10-ton stockpile of material for future use.

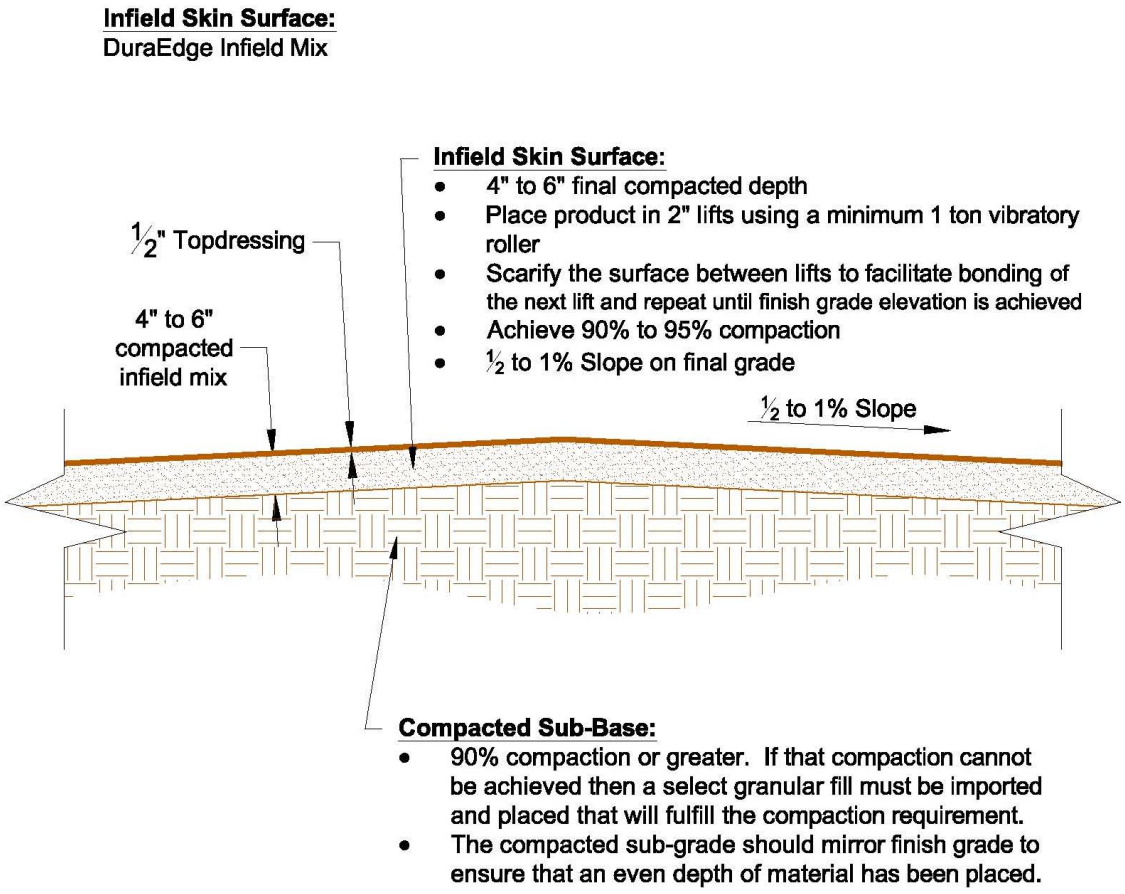
PART 3 – EXECUTION

3.1 PLACEMENT

A. Place the material in lifts of 2 inches and compact with a minimum 1-ton vibratory roller until an optimum compaction between 90 percent and 95 percent is achieved. Scarify the surface to facilitate bonding of the next lift and repeat until finish grade elevation is achieved. Completing this process as described will minimize settling and improve the performance of the product. See diagram in 3.1.C.

B. Depth of the material shall be 4 inches to 6 inches when finished and compacted. See diagram in 3.1.C.

C.



3.2 WATERING

A. In most cases, the material is delivered with optimum moisture and adding water is not necessary. If unable to achieve optimum compaction, a light application of water may be needed.

3.3 FINISH GRADING

A. For best results the material shall be finish graded with a laser device that allows accuracy to +/- 1/8 inch. A slope of 1/2 percent to 1 percent shall be placed on the infield surface in order to facilitate surface drainage.

3.4 INSPECTION

A. The finished surface of the infield shall be smooth and free from any visible dips, humps, bumps or other blemishes which would hinder the removal of water through positive surface drainage. Where warranted, a finished elevation survey shall be conducted to assure proper installation.

3.5 TOPDRESSING

A. Following successful inspection, topdressing shall be applied to the surface for optimum product performance. This topdressing is a calcined clay product and shall be added at a rate of one 50-pound bag per 100 square ft.

B. Product is Turface Pro League Heritage Red conditioner and is available through Natural Sand Company, Inc., Slippery Rock, Pa., 866-867-0052, and Profile Products LLC,750 Lake Cook Rd, Suite 440, Buffalo Grove, Ill., 800-207-6457.

End of Section 1