

2 PART 2 PRODUCTS

2.1 TOPSOIL

A. Use imported topsoil consisting of a fertile friable well-drained sandy loam suitable for the growth of plants. Use topsoil free from subsoil, clay, brush, noxious weeds, rocks and dirt clods larger than 1 inch in diameter, and free from materials that would be toxic or harmful to growth. Provide topsoil conforming to the following requirements:

1. Provide topsoil with a grading analysis per ASTM D422 as follows:

Sieve Size	Percent Passing by Weight
1/2"	100
No. 4	97-100
No. 10	85-95
No. 30	65-80
No. 50	30-50
No. 100	20-40
No. 200	10-30

2. The minimum and maximum pH values shall be 6 and 8, respectively as measured by ASTM D4972.
3. Provide topsoil containing a minimum of 10 percent and a maximum of 20 percent organic matter as determined by loss on ignition of samples.
4. Prior to stripping, topsoil shall have demonstrated that it is of good quality and reasonably free draining, by the occurrence upon it of healthy crops, grass, or other plant growth.

2.2 CAP MATERIALS: ISLAND COMPLEX

- A. Obtain suitable cap materials that meet the specification requirements from off-site areas as approved by Ecology’s Representative.
- B. Provide cap material that is free of trash, vegetation, corrosive, organic or decomposable material, or metals in excess of background concentrations.
- C. Cap materials shall consist of granular material, either naturally occurring or processed. It shall be essentially free from wood waste or other extraneous or objectionable materials.
- D. The maximum particle size shall not exceed 2/3 of the depth of the layer being placed.

- E. Trail cap materials shall meet the following requirements for grading and quality when placed in hauling vehicles for delivery to the site or during manufacture and placement into a temporary stockpile. The exact point of acceptance will be determined by Ecology’s representative.

<b>Trail Cap Material 3/8-inch minus crushed gravel</b>	
<b>Sieve Size</b>	<b>Percent Passing by Weight</b>
3/8 inch	100
No. 4	44-66
No. 40	8-24
No. 200	10 max.

- F. Gravel for chevron cap shall consist of naturally occurring rounded granular material consistent in appearance with materials located at the project site. It shall be free from various types of wood waste or other extraneous or objectionable materials. It shall have such characteristics of size and shape that it will compact and shall meet the following specifications for grading and quality:

<b>Chevron Cap Material 1-inch minus</b>	
<b>Sieve Size</b>	<b>Percent Passing by Weight</b>
1-inch	100
5/8-inch	75-100
1/2-inch	50-100
No. 4	20-80
No. 40	3-24
No. 200	10 max.

- G. Material for chevron cap shall be screened 3-inch minus natural, rounded rock with less than 10% fine material:

<b>Chevron Cap Material 3-inch minus</b>	
<b>Sieve Size</b>	<b>Percent Passing by Weight</b>
3-inch	100-60
2-inch	80-45
1-inch	65-30
1/2-inch	50-25
No. 4	35-15
No. 10	25-10
No. 40	10-0
No. 200	5-0

- H. Angular quarry spall for chevron cap shall be hard, sound, durable, light-colored granitic rock. It shall be free from fracture, seams, cracks, and other discontinuities tending to adversely impact its resistance to weathering. Quarry spalls shall meet the following gradation requirements:

<b>Chevron Cap Material 4- to 6-inch angular quarry spall</b>	
<b>Sieve Size</b>	<b>Percent Passing by Weight</b>
6-inch	100
4-inch	40 max.
2-inch	5 max.

- I. Obtain suitable cap materials that meet the specification requirements from off-site areas as approved by Ecology’s Representative.
- J. Provide cap material that is free of trash, vegetation, corrosive, organic or decomposable material, or metals in excess of background concentrations.
- K. Coir Fabric Lift Material:
  1. Provide 100% fabric with a 100% coconut fiber matrix with functional longevity of a minimum of 24 months.
  2. The fabric shall be of consistent thickness with the coconut fiber evenly distributed over the entire area of the blanket. The blanket shall be covered on the top, bottom and sides with 100% biodegradable woven, natural, organic fiber netting.
  3. The top netting shall consist of machine directional strands formed from two intertwined yarns with cross directional strands interwoven through the twisted machine strands (commonly referred to as a Leno weave) to form an approximate 0.50 x 1.00 inch mesh. The blanket shall be sewn together on 1.50 inch centers with biodegradable thread. Do not use coir fabric that contains nylon or plastic materials.
  4. Provide coir fabric materials that meet the minimum average roll values (MARVs) specified in the following table.