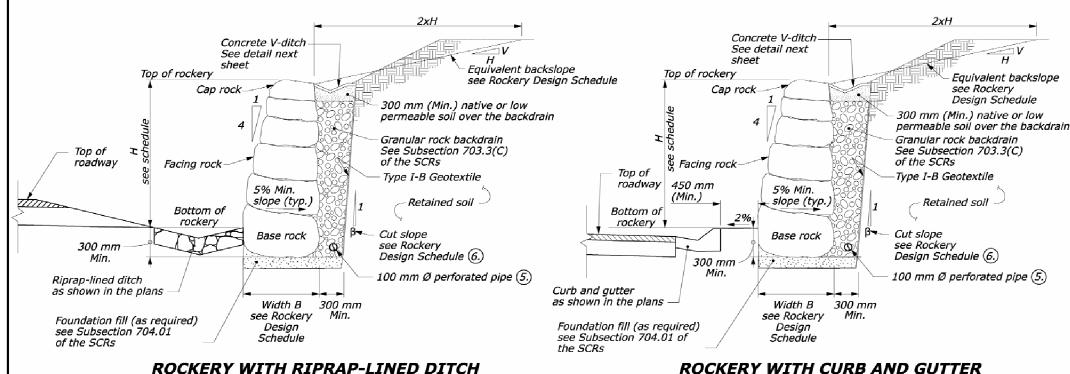
APPENDIX C – SAMPLE SECTIONS AND DETAILS

The following sample sections and details have been developed in conjunction with the FLH for use on FLH projects that will include rockery construction. The plans should be used in association with the design methods recommended in Chapter 4 and the guide specifications presented in Chapter 8.



Type I-B Geotextile Retained soil Contact points Granular rock backdrain 150 mm Max.

BASE ROCK

PLAN VIEW

See Note 2

TYPICAL SECTION

ROCKERY DESIGN SCHEDULE MIN. BASE MAX. MIN. CUT(A.) MIN. ROCK WEIGHT (kg) SURCHARGE **EOUIVALENT** HEIGHT ROCK WIDTH SLOPE STATION LT/RT DITCH TYPE (B.) BATTER B BACKSLOPE TÍER TYPE CAP ROCK BASE ROCK V:H(m) (m) V:HBEGIN END

NOTE:

- Construct rockery and place base, facing, and cap rocks according to Section 252 of the SCRs. Place each rock individually by equipment suitable for lifting, manipulating, and placing rocks of the size and shape specified. Ensure that each rock is firmly set and supported by underlying materials and adjacent rocks. Reposition or replace loose rocks.
- A maximum tolerance of 150 mm may be applied toward the total base rock width. Use rock with minimum L of 1700 mm. When L exceeds 1700 mm, two approximately equal size base rocks may be used, provided rocks are in contact at two points or more. Do not consecutively place base rocks with widths
- Place base, facing, and cap rocks so that their height dimension is not greater than their width. The longest dimension of the base, facing, and cap rocks is perpendicular to face of rockery.
- Where loose, soft, or otherwise unsuitable foundation soil conditions are encountered, contact the CO for supplemental recommendations.
- Surround the perforated pipe on all sides by at least 100 mm of permeable backfill according to Subsection 703.04.

Discharge outlet pipes to a protected outlet or other permanent drainage structure at low points in the rockery and at 30 m (max.) spacing. Drain outlets should not empty into storm drains that are designed to back-up during heavy flows.

- (6.)Stability of temporary cut slopes is the responsibility of the Contractor.
- Do not construct rockeries or slopes exceeding the heights shown on the Rockery Design Schedule without prior written approval by the CO.
- Construct rockeries parallel to curb grade unless otherwise

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION CENTRAL FEDERAL LANDS HIGHWAY DIVISION

METRIC SPECIAL

ROCKERY **TYPICAL SECTIONS & DETAILS**

Sheet 1 of 2

SPECIAL M252-A

Rockery Design Data:

Friction angle, $\emptyset = ___\circ$ Cohesion, c = 0

Bulk unit weight, $\gamma_R = 23.5 \text{ kN/m}^3$ Allowable bearing pressure = ____ KPa

(A.)Minimum cut slope for design purposes only. Actual cut slope batter may be greater (6.)

TYPICAL SECTION

(B.)Where "none" is indicated, no structures, vehicular traffic, or other surcharges can occur within a zone defined by an imaginary plane extending from the back of the base rock at an inclination of 1V:1.5H.

surcharge of ____ KPa located ____ from back face of rockery.

