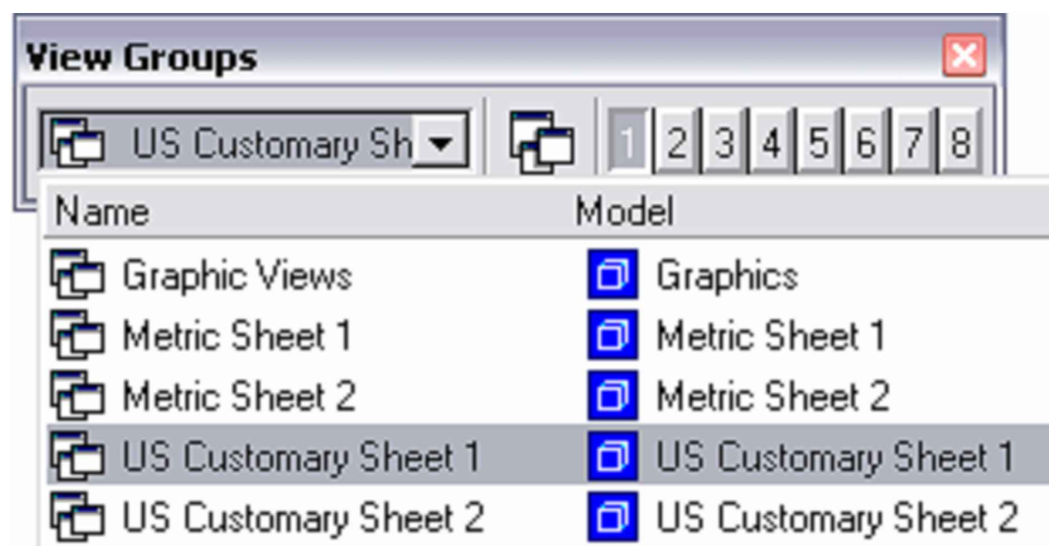# Instructions
(Grading Summary and Mass Haul Diagram Earthwork Representations)
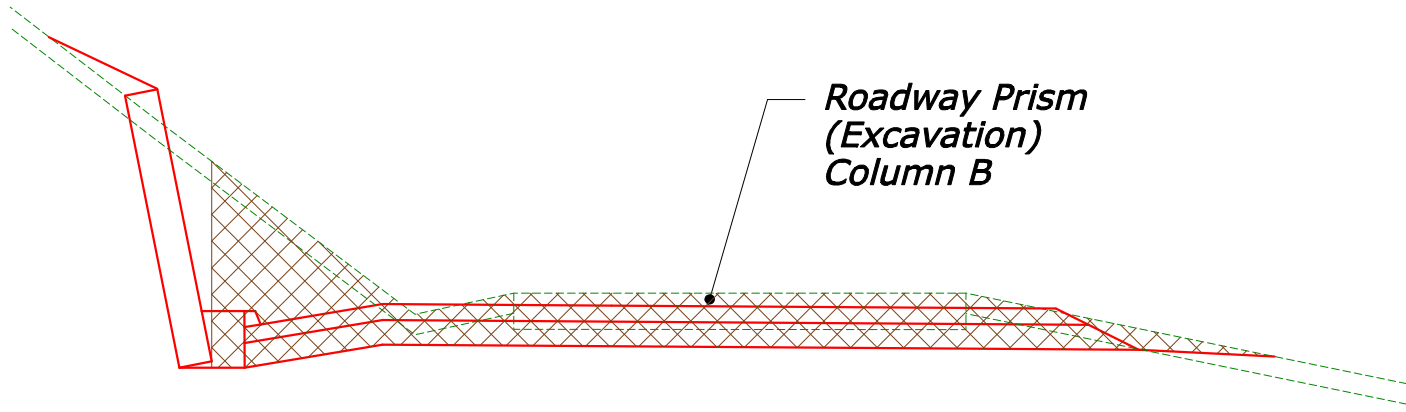
- Switch between models to get Metric or U.S. Customary Units and between Sheets 1 & 2.

View Groups

US Customary Sh ▼   1 2 3 4 5 6 7 8

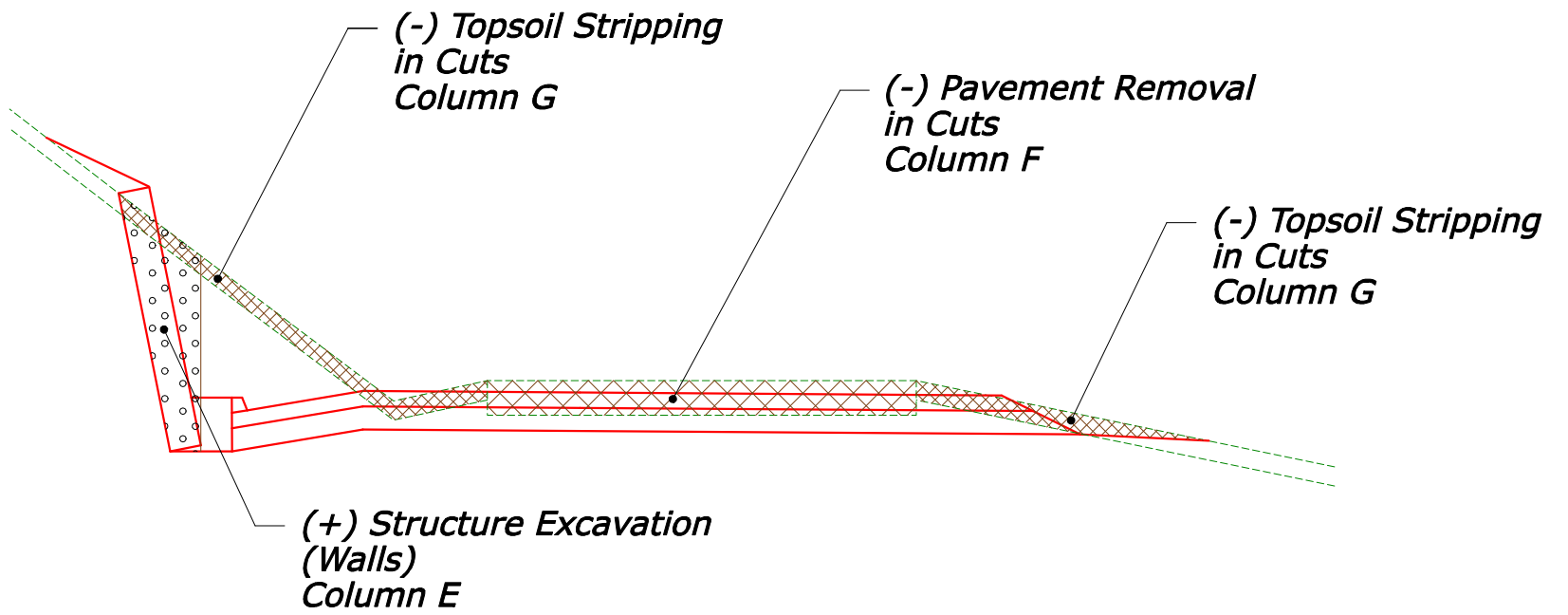| Name	Model
Graphic Views	Graphics
Metric Sheet 1	Metric Sheet 1
Metric Sheet 2	Metric Sheet 2
US Customary Sheet 1	US Customary Sheet 1
US Customary Sheet 2	US Customary Sheet 2

The Grading Summary and Mass Haul Diagram Earthwork Representations drawing contains 5 models: Metric (Sheet 1 & 2), US Customary (Sheet 1 & 2) and the Graphics model which contains the graphics for sheet 1. The Graphics model is referenced into the sheet 1 (Metric and US Customary) models where the border and project information is located. **DO NOT MODIFY THE "GRAPHICS" MODEL.**

- Gray elements are notes for the user. (They are construction elements and will not plot.)

- Attach project border to drawing. It will attach in the correct location.

- All wall earthwork representation drawings are located in the Sheet 2 (Metric and US Customary) model. Include only wall types that are being used on the project. Place by snapping to the gray box.
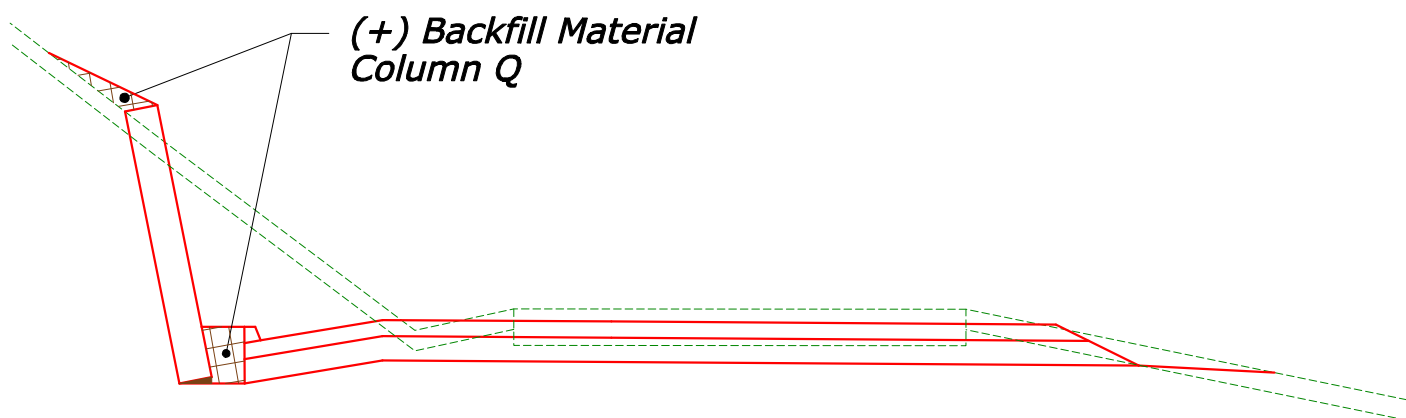
If more than one sheet of wall earthwork representations is needed, an additional border can be attached to the Sheet 2 model.
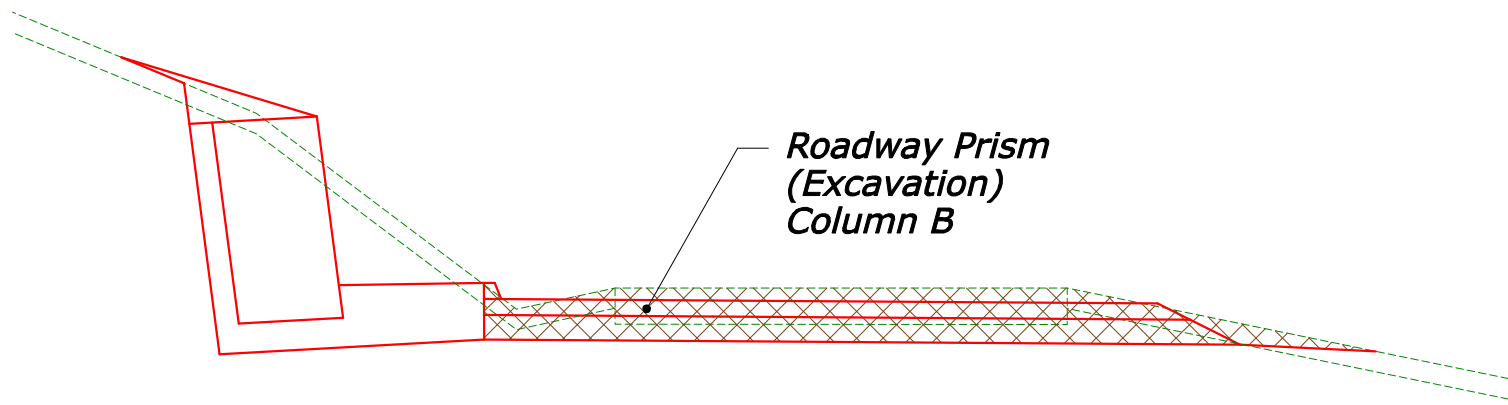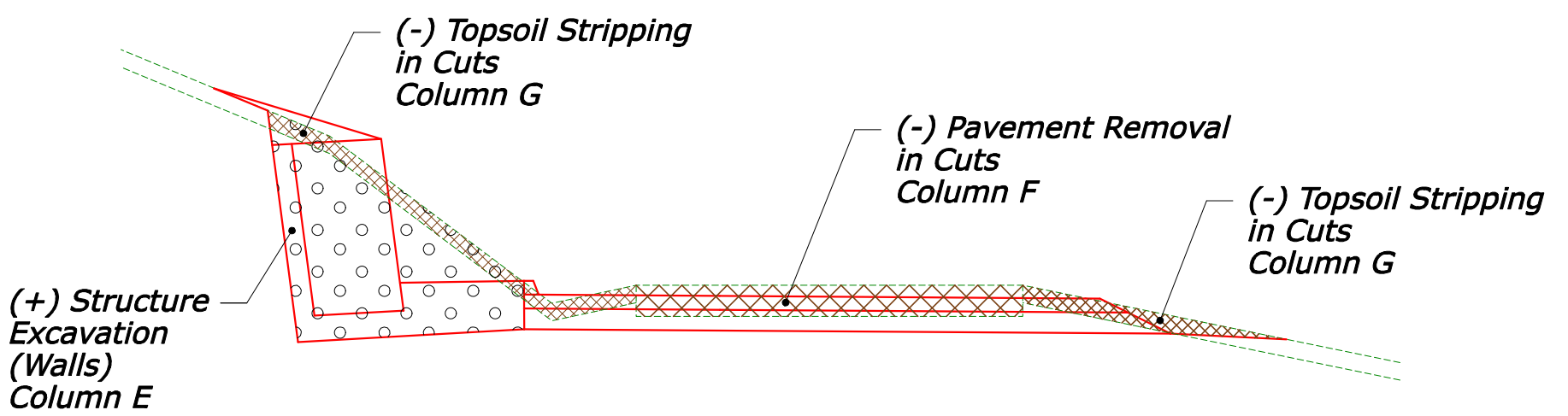
Roadway Prism
(Excavation)
Column B

ROADWAY EXCAVATION
SOIL NAIL WALL

(-) Topsoil Stripping
in Cuts
Column G

(-) Pavement Removal
in Cuts
Column F

(-) Topsoil Stripping
in Cuts
Column G

(+) Structure Excavation
(Walls)
Column E

ADJUSTMENTS TO ROADWAY EXCAVATION
SOIL NAIL WALL

(+) Backfill Material
Column Q

ROADWAY EMBANKMENT
SOIL NAIL WALL

ROADWAY EXCAVATION
ROCKERY

Roadway Prism
(Excavation)
Column B

ADJUSTMENTS TO ROADWAY EXCAVATION
ROCKERY

(-) Topsoil Stripping
in Cuts
Column G

(-) Pavement Removal
in Cuts
Column F

(-) Topsoil Stripping
in Cuts
Column G

(+) Structure
Excavation
(Walls)
Column E
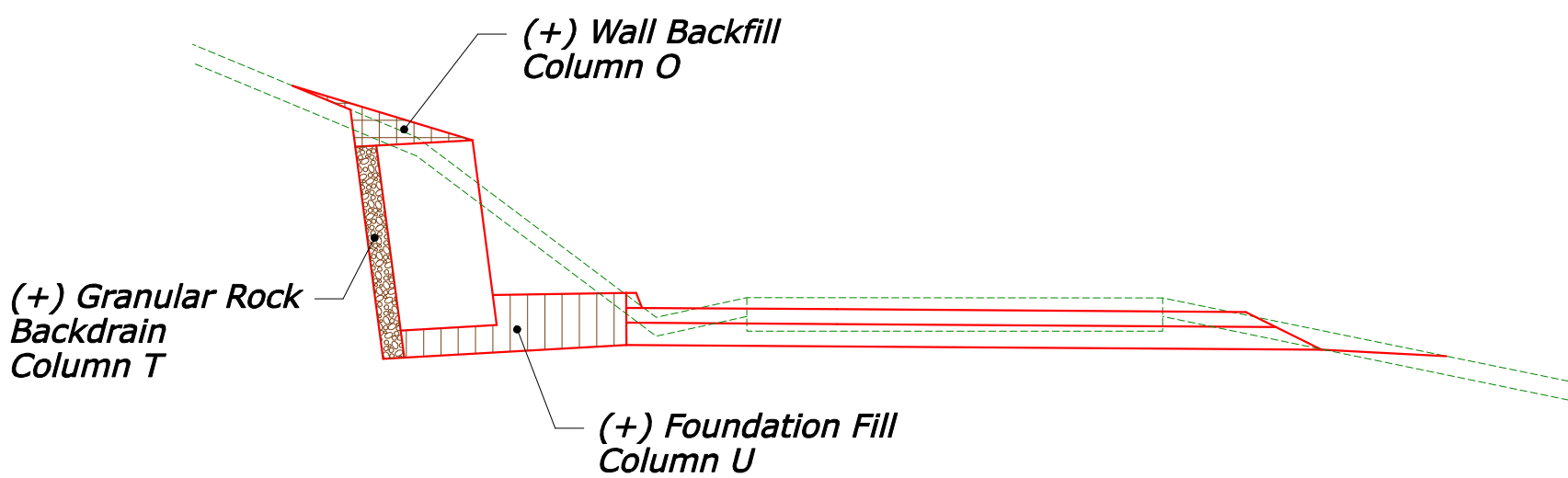
ROADWAY EMBANKMENT
ROCKERY

(+) Wall Backfill
Column O

(+) Granular Rock
Backdrain
Column T

(+) Foundation Fill
Column U

**Roadway Prism
(Excavation)
Column B**

ROADWAY EXCAVATION
SMSE WALL

**(-) Pavement Removal
in Cuts
Column F**

**(-) Topsoil Stripping
In Cuts
Column G**

**(-) Topsoil Stripping
in Cuts
Column G**

**(+) Structure
Excavation (Walls)
Column E**

**Temporary excavation
slope**

②.
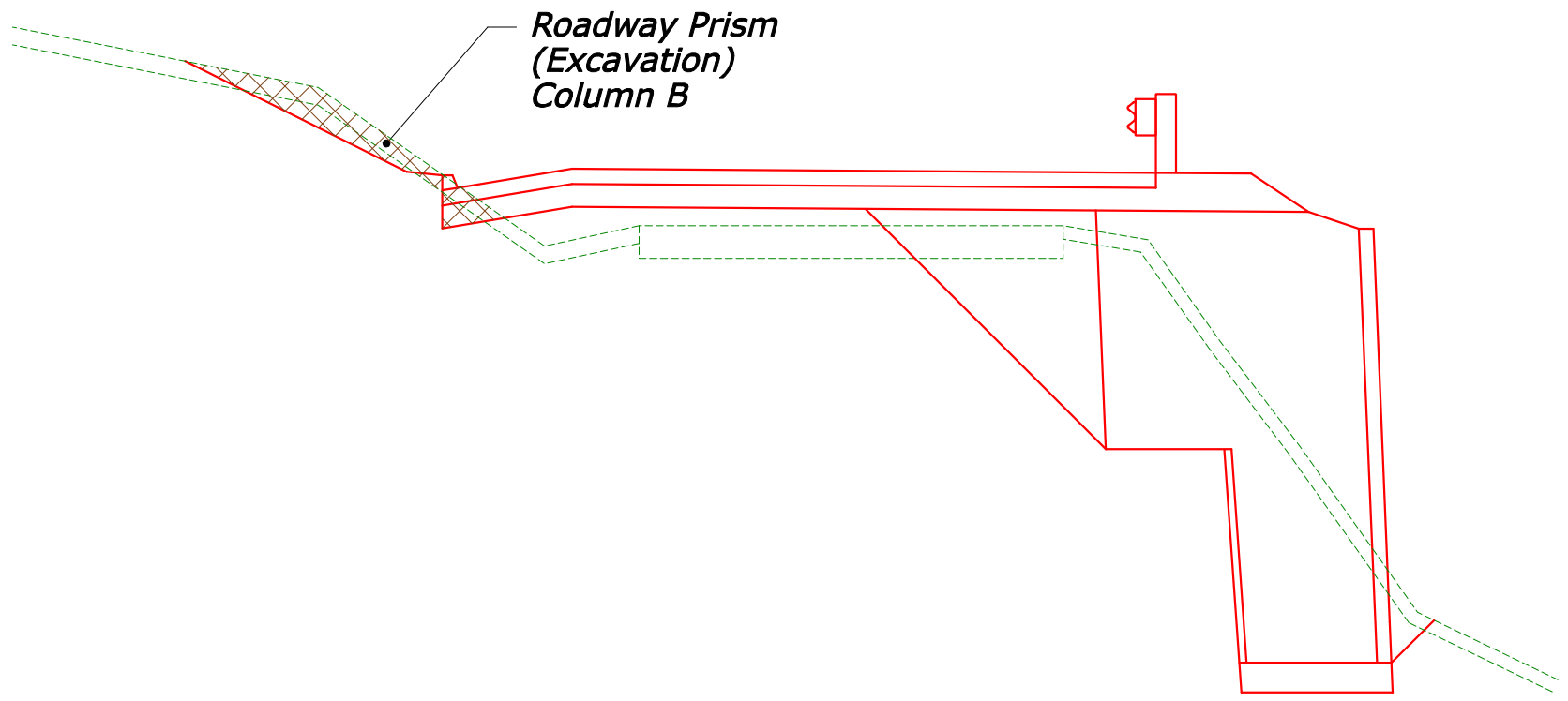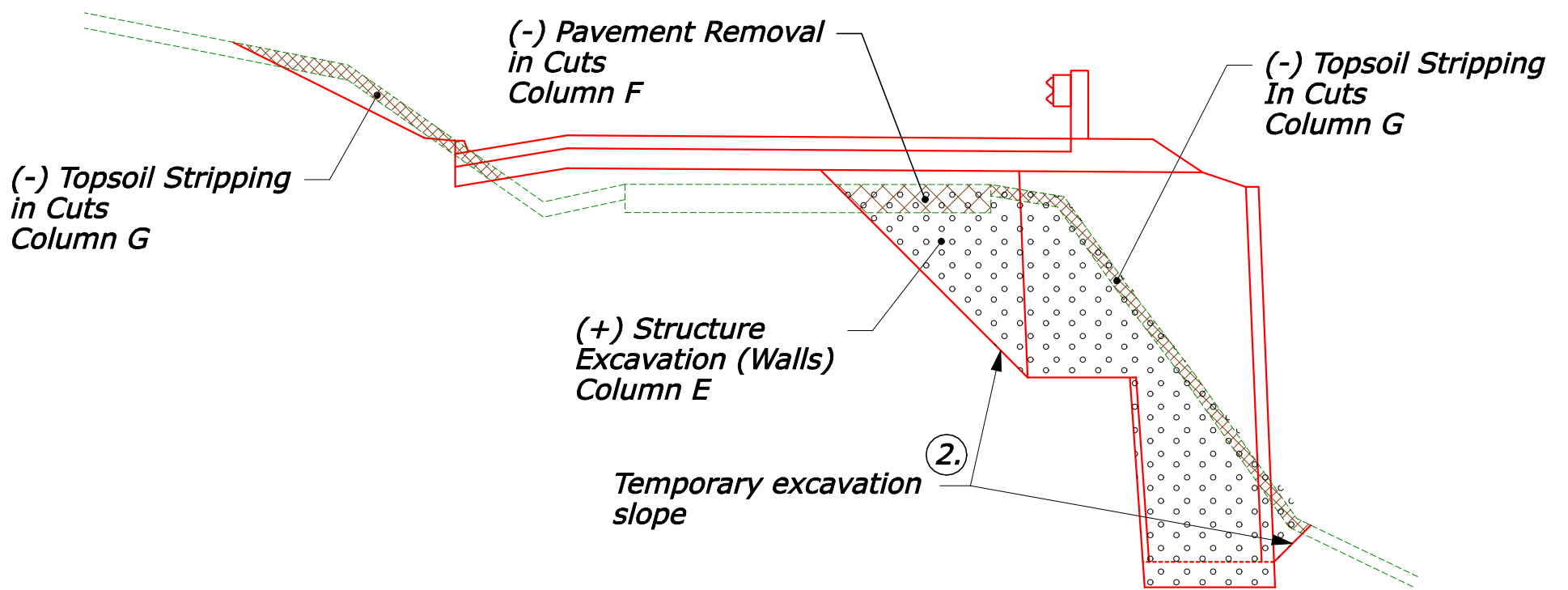
ADJUSTMENTS TO ROADWAY EXCAVATION
SMSE WALL

**Roadway Prism
(Embankment)
Column M**

**(+) Backfill for Pavement
Removal Under Fill
Column V**

**(+) Select Wall Backfill
Column P**

**(+) Wall Backfill
Column O**

**(+) Topsoil Replacement
Under Fill
Column W**

**(+) Granular Backfill
Column S**

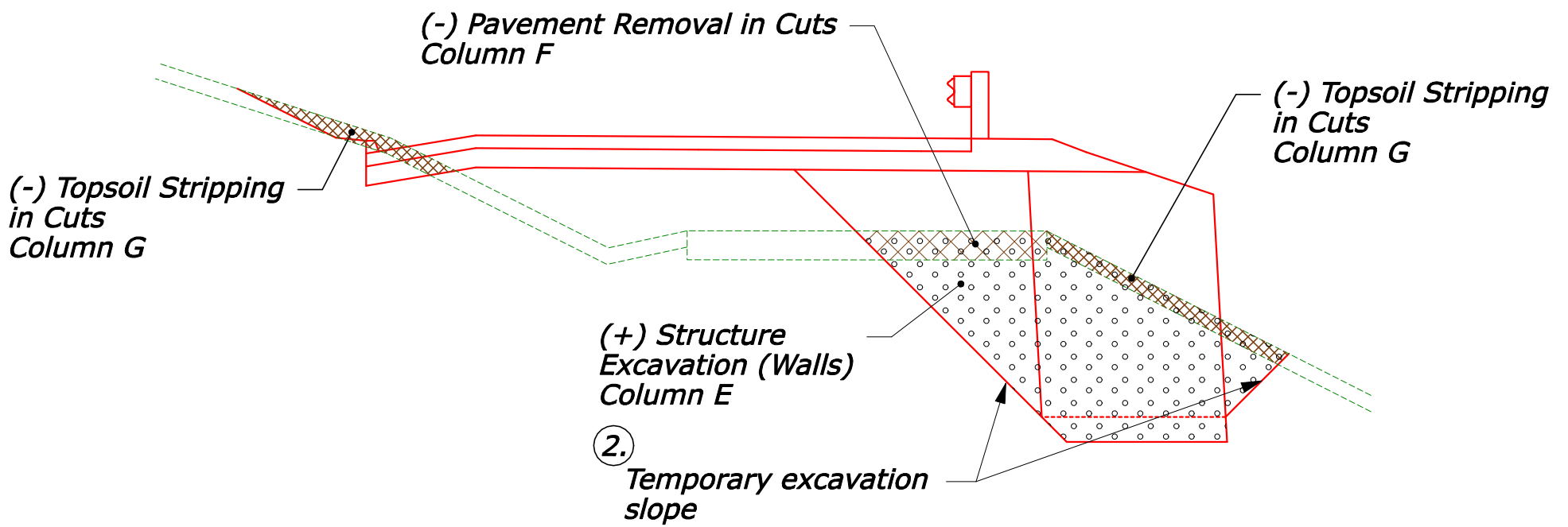**(+) Foundation Fill
Column U**

ROADWAY EMBANKMENT
SMSE WALL

Roadway Prism
(Excavation)
Column B

ROADWAY EXCAVATION
MSE WALL

(-) Pavement Removal in Cuts
Column F

(-) Topsoil Stripping
in Cuts
Column G

(-) Topsoil Stripping
in Cuts
Column G

(+) Structure
Excavation (Walls)
Column E

②.
Temporary excavation
slope
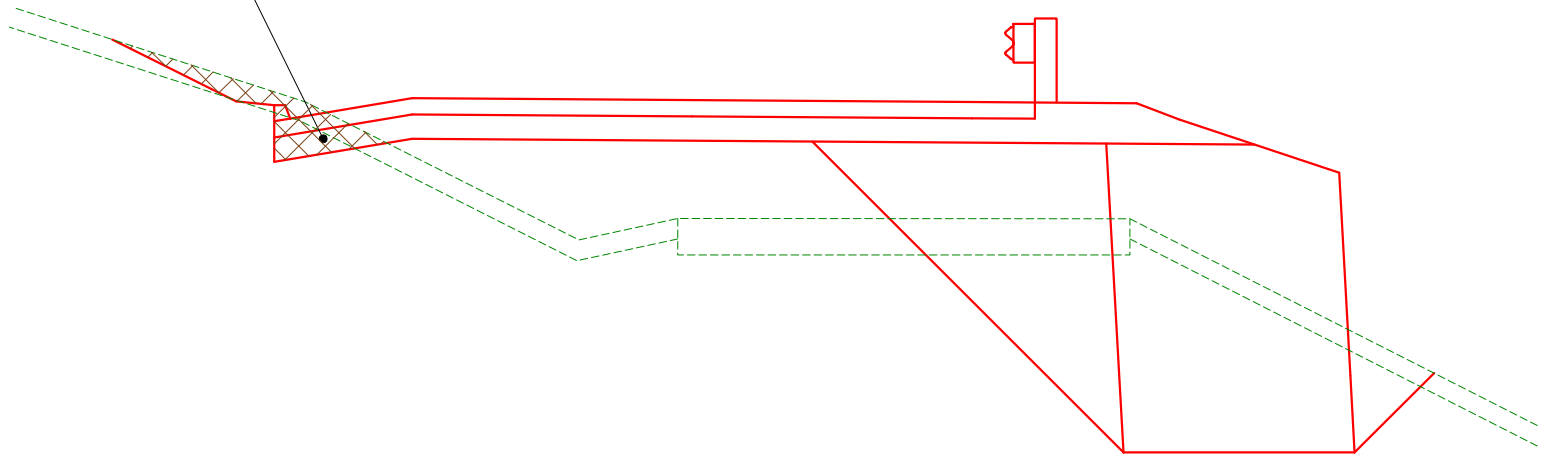
ADJUSTMENTS TO ROADWAY EXCAVATION
MSE WALL

Roadway Prism
(Embankment)
Column M

(+) Backfill for Pavement
Removal Under Fill
Column V

(+) Select Wall Backfill
Column P

(+) Wall Backfill
Column O

(+) Topsoil Replacement Under Fill
Column W

(+) Foundation Fill
Column U
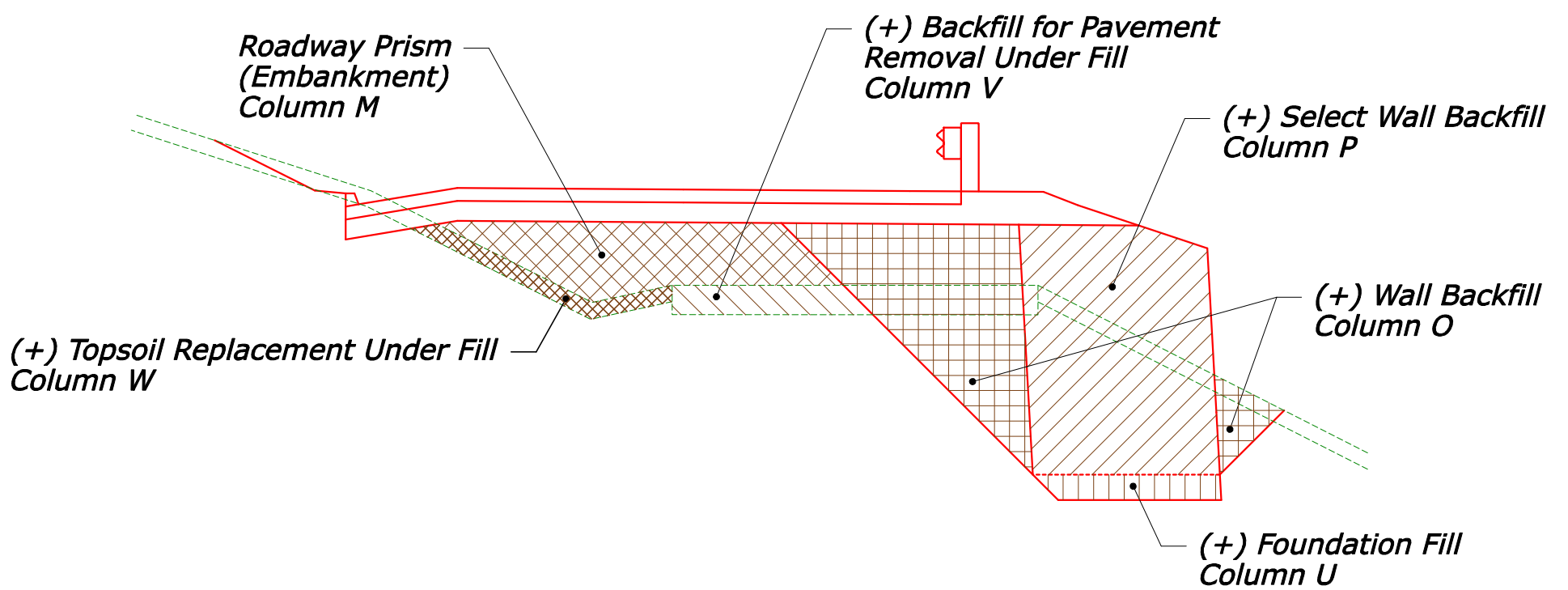
ROADWAY EMBANKMENT
MSE WALL
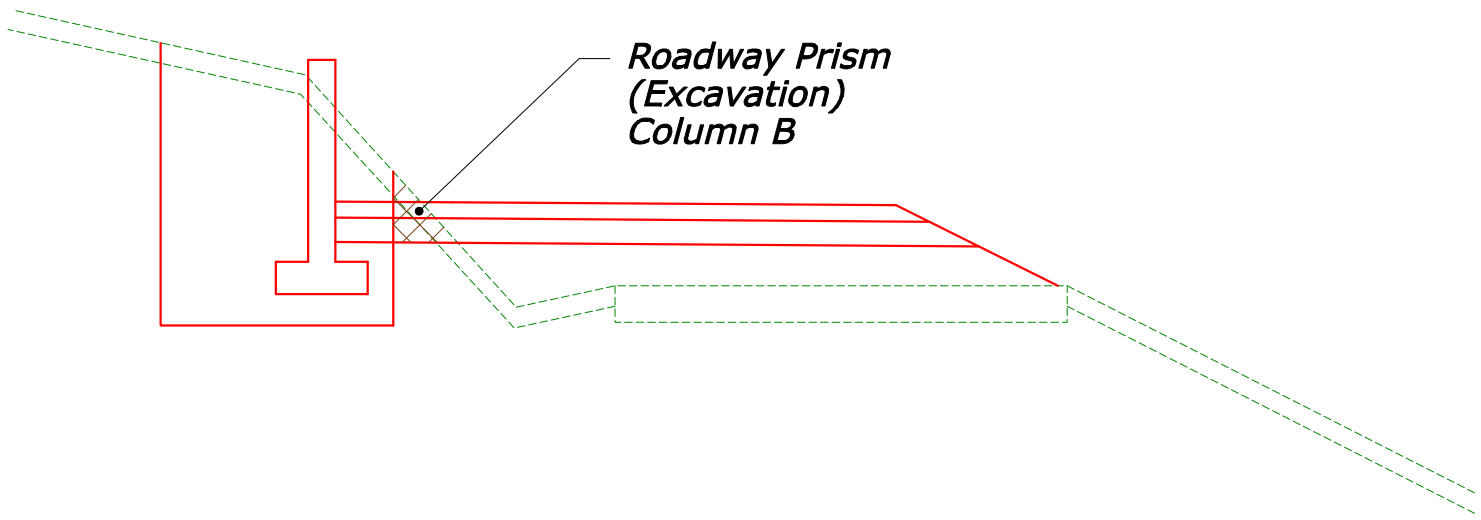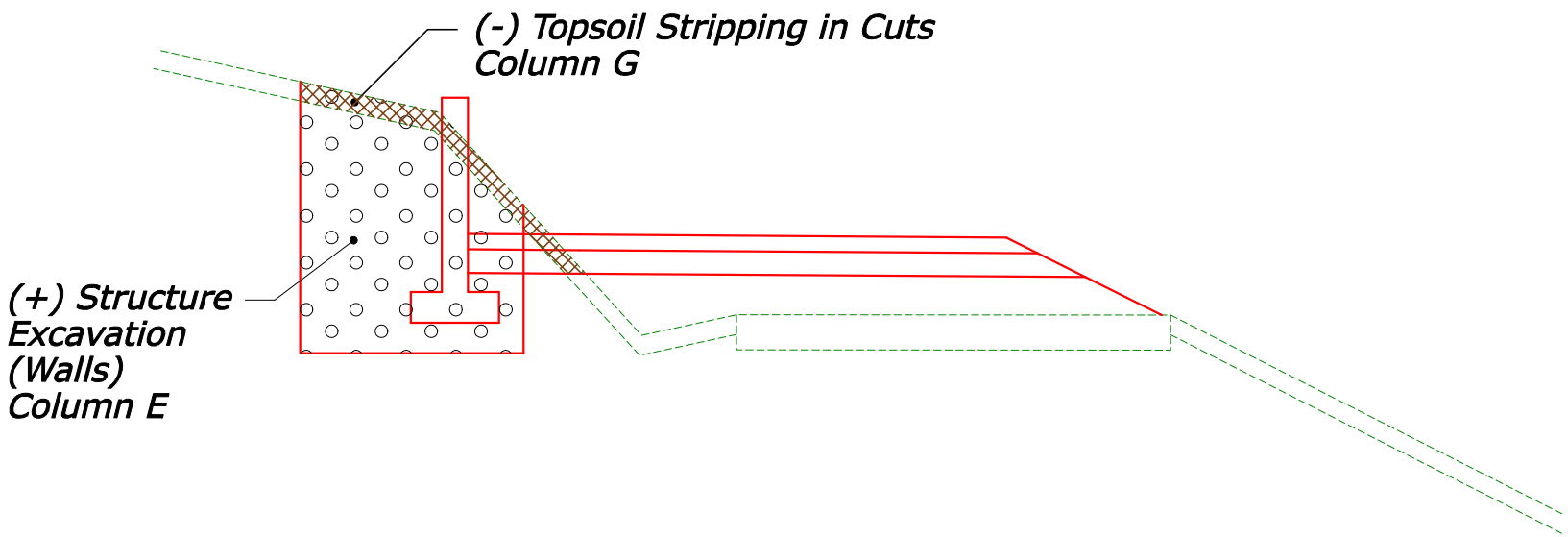
ROADWAY EXCAVATION
CONCRETE CUT WALL

Roadway Prism
(Excavation)
Column B

ADJUSTMENTS TO ROADWAY EXCAVATION
CONCRETE CUT WALL

(-) Topsoil Stripping in Cuts
Column G

(+) Structure
Excavation
(Walls)
Column E
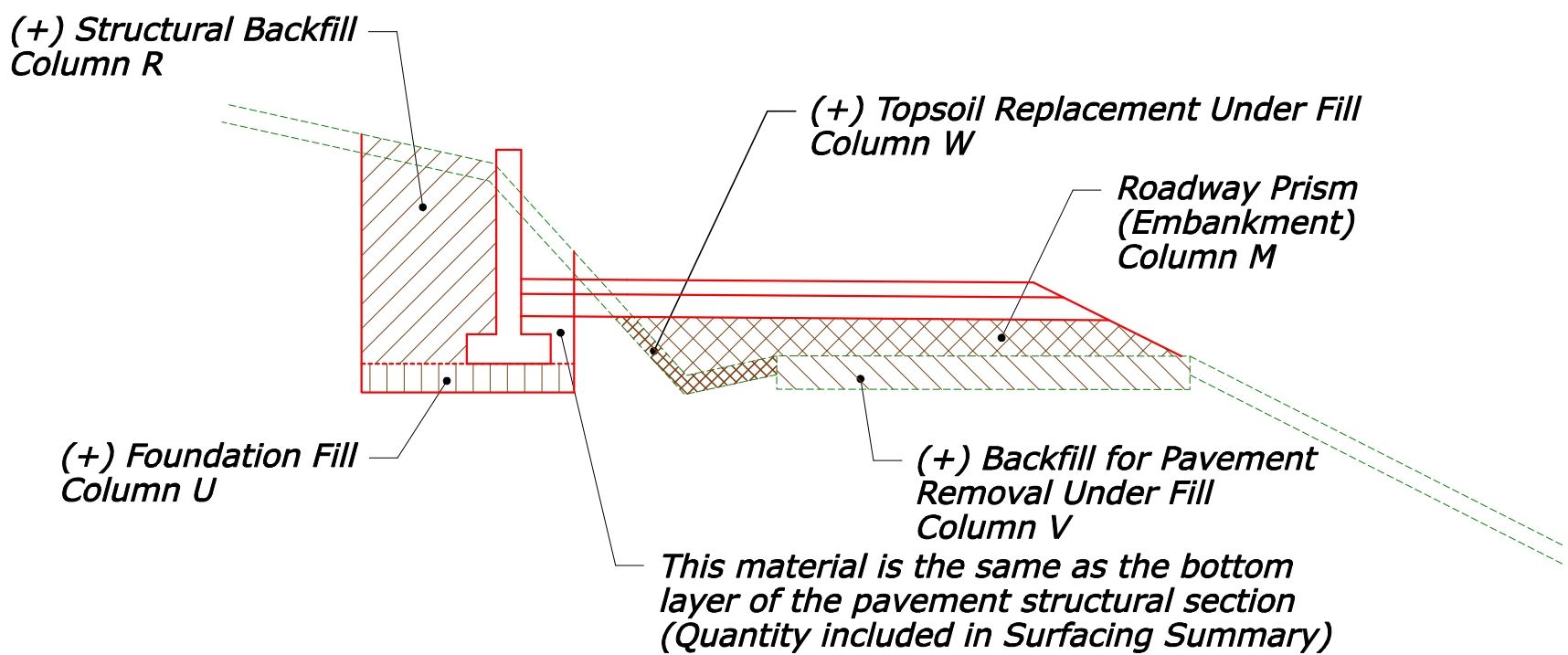
ROADWAY EMBANKMENT
CONCRETE CUT WALL

(+) Structural Backfill
Column R

(+) Topsoil Replacement Under Fill
Column W

Roadway Prism
(Embankment)
Column M

(+) Foundation Fill
Column U

(+) Backfill for Pavement
Removal Under Fill
Column V

This material is the same as the bottom
layer of the pavement structural section
(Quantity included in Surfacing Summary)

Roadway Prism
(Excavation)
Column B

ROADWAY EXCAVATION
CONCRETE RETAINING WALL

(-) Topsoil Stripping
in Cuts
Column G

(-) Pavement Removal
in Cuts
Column F

(-) Topsoil Stripping
in Cuts
Column G

Temporary excavation
slope

(+) Structure Excavation (Walls)
Column E

ADJUSTMENTS TO ROADWAY EXCAVATION
CONCRETE RETAINING WALL

(+) Topsoil Replacement
Under Fill
Column W

Roadway Prism
(Embankment)
Column M

(+) Backfill Material
Column Q

(+) Backfill for Pavement
Removal Under Fill
Column V

(+) Wall Backfill
Column O

(+) Structural Backfill
Column R

(+) Foundation Fill
Column U

ROADWAY EMBANKMENT
CONCRETE RETAINING WALL
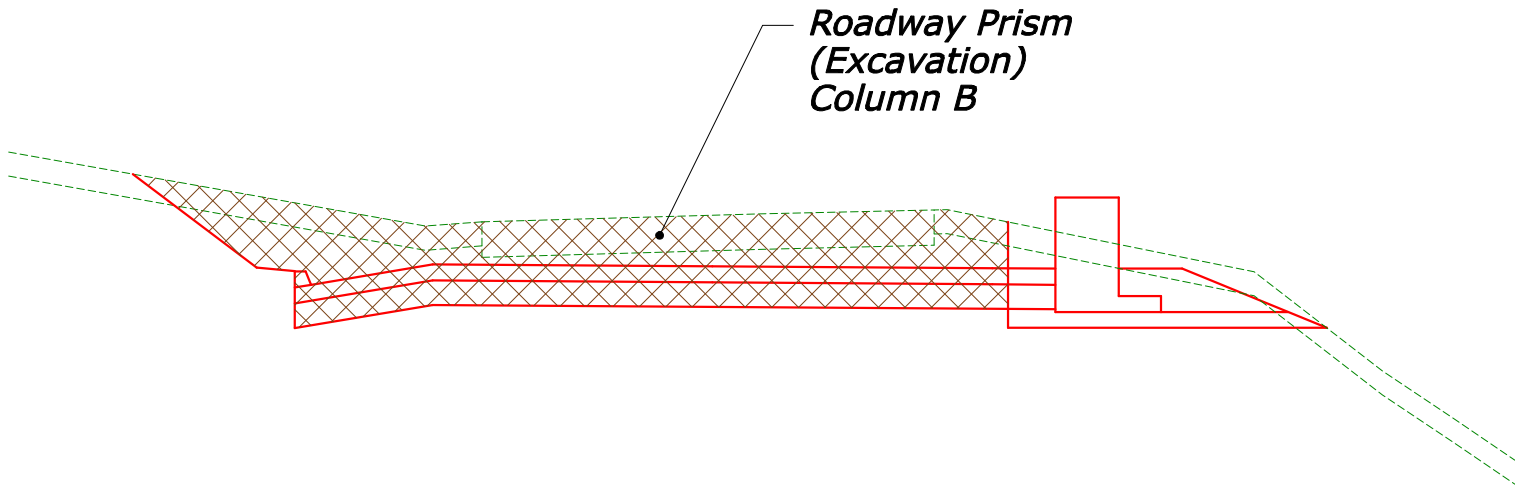
Roadway Prism
(Excavation)
Column B

ROADWAY EXCAVATION
GUARDWALL

(-) Topsoil Stripping
in Cuts
Column G

(+) Pavement
Removal in Cuts
Column F

(-) Topsoil Stripping
in Cuts
Column G

(+) Structure Excavation
(Walls)
Column E

ADJUSTMENTS TO ROADWAY EXCAVATION
GUARDWALL

(+) Backfill Material
Column Q

(+) Structural Backfill
Column R
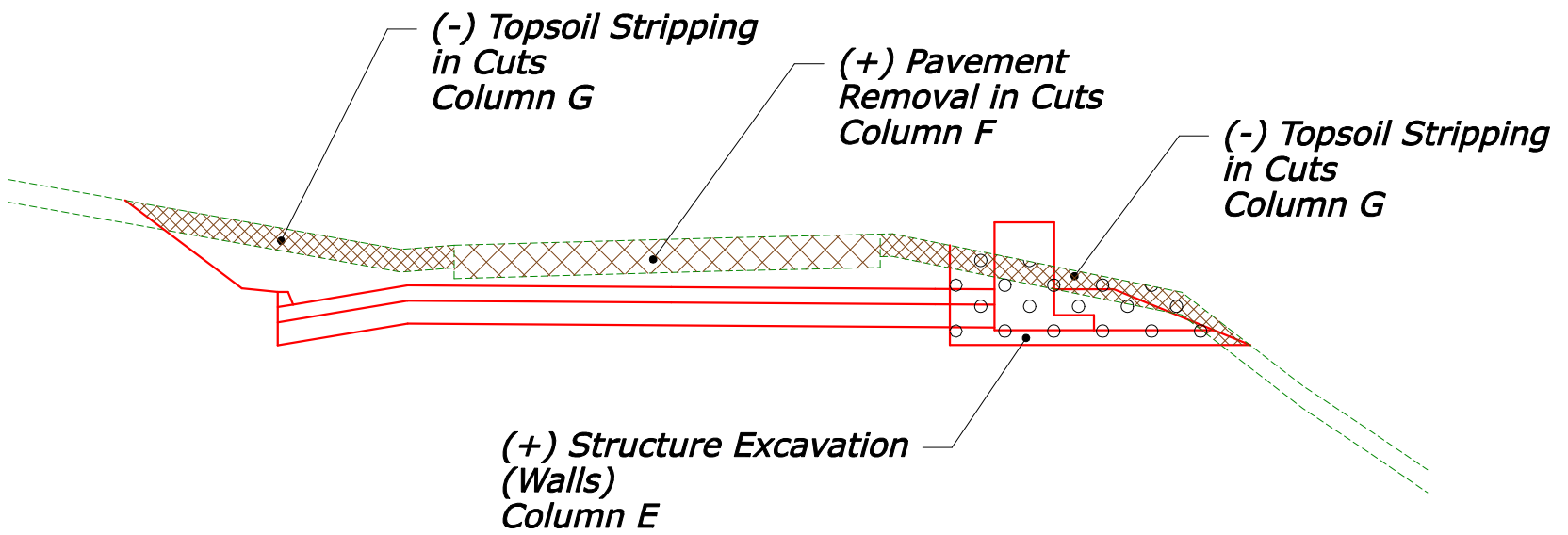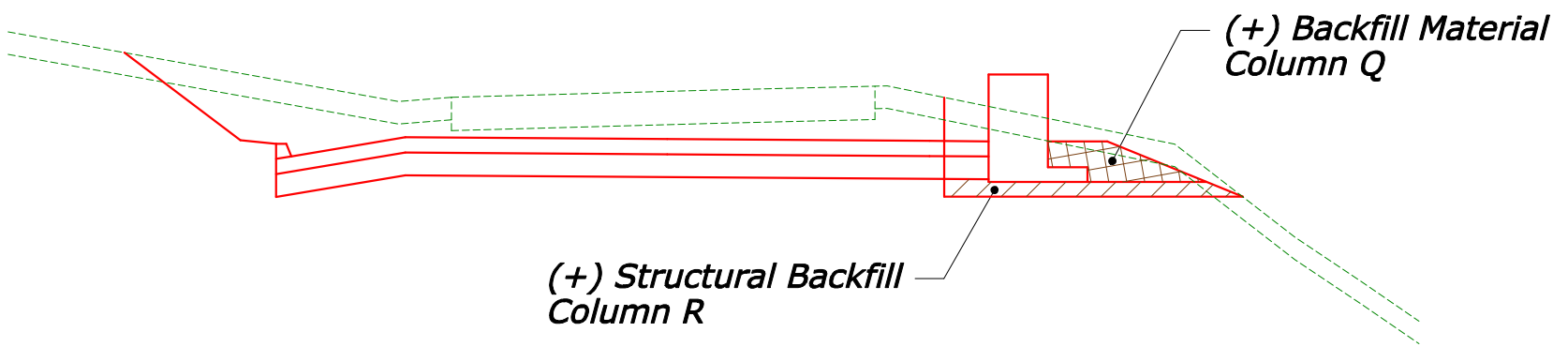
ROADWAY EMBANKMENT
GUARDWALL