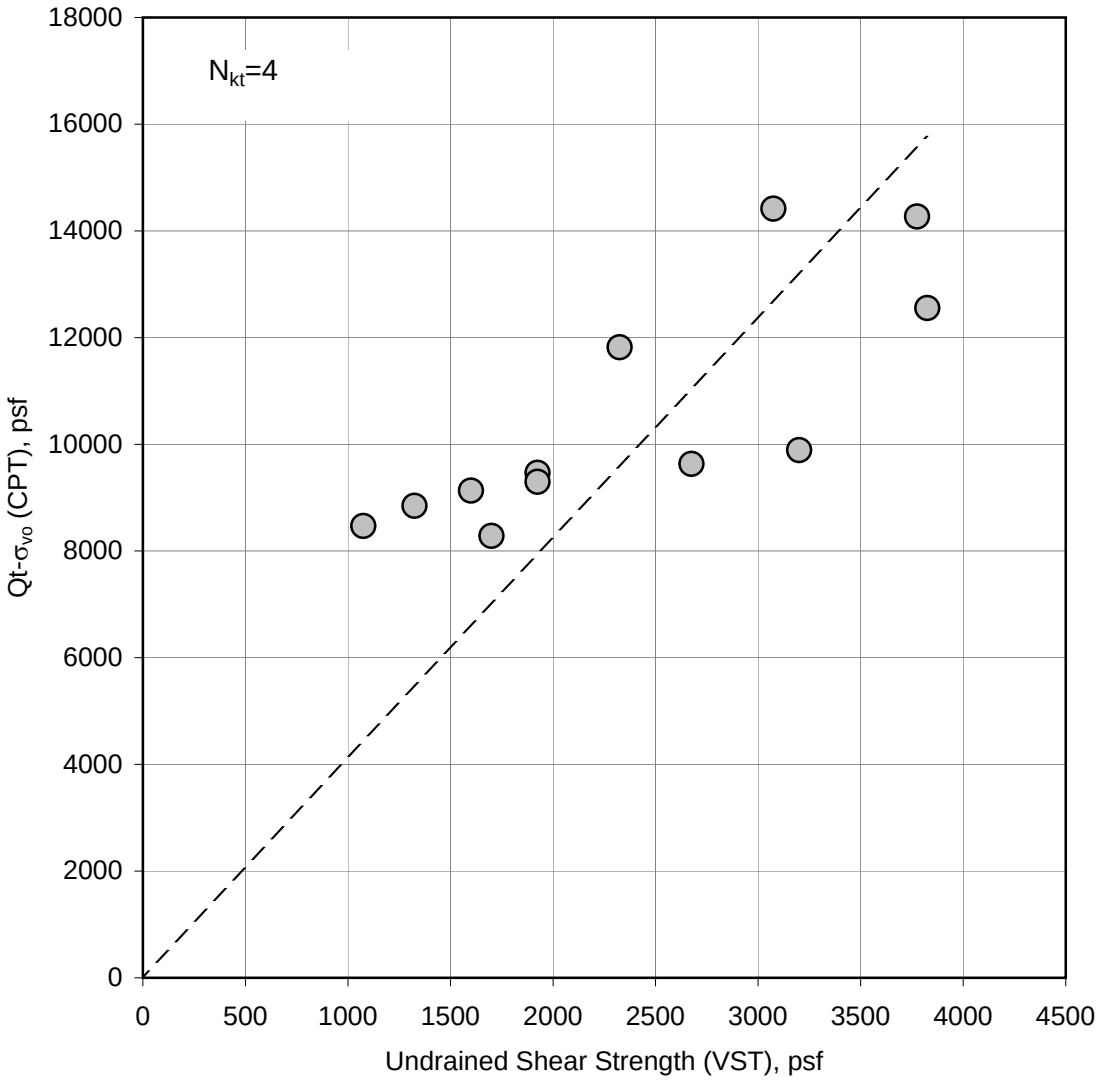
CALIBRATION OF CPT (N_{kt}) WITH VST DATA

High Sensitivity Fine Grained Soils: SBT=1

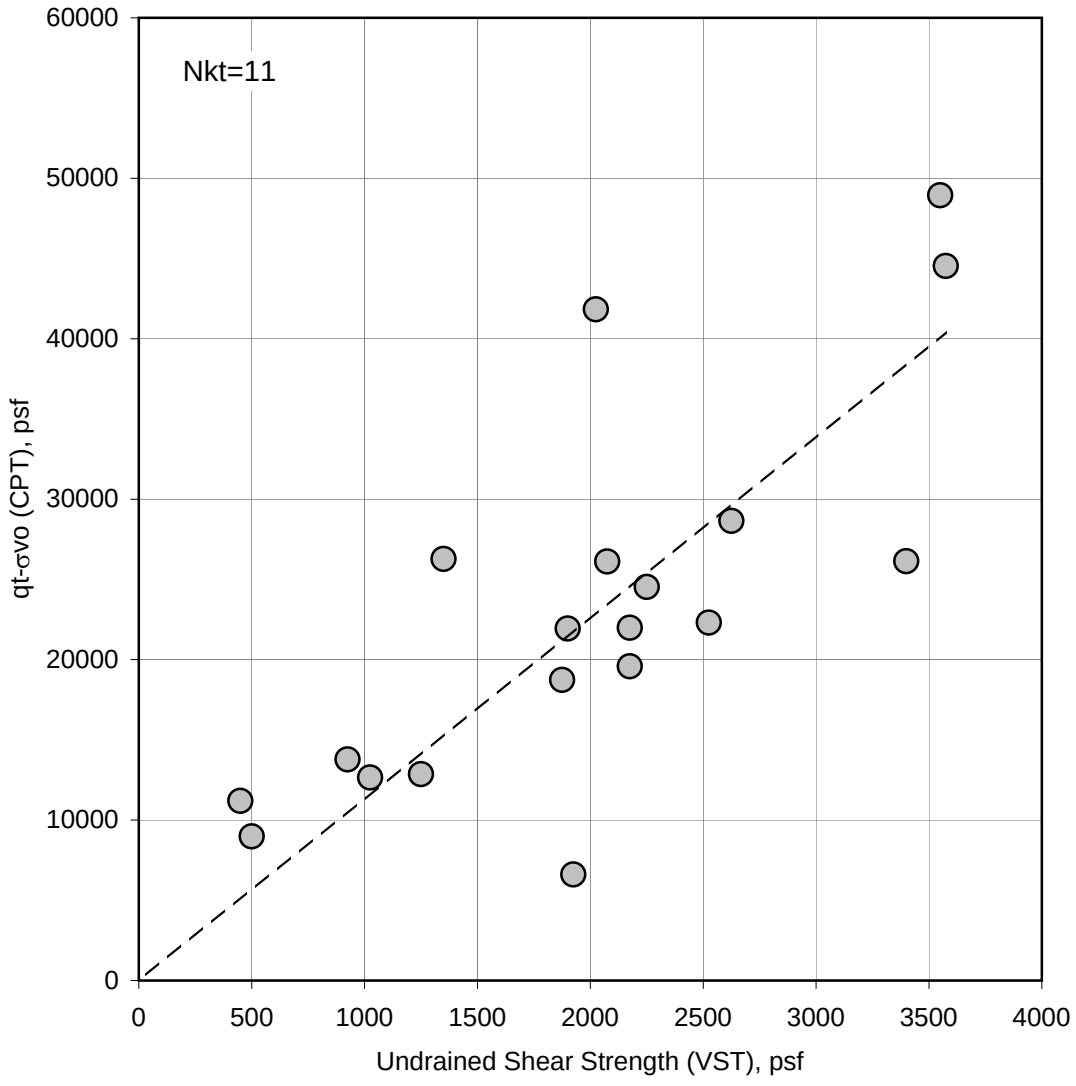
Sensitivity >3

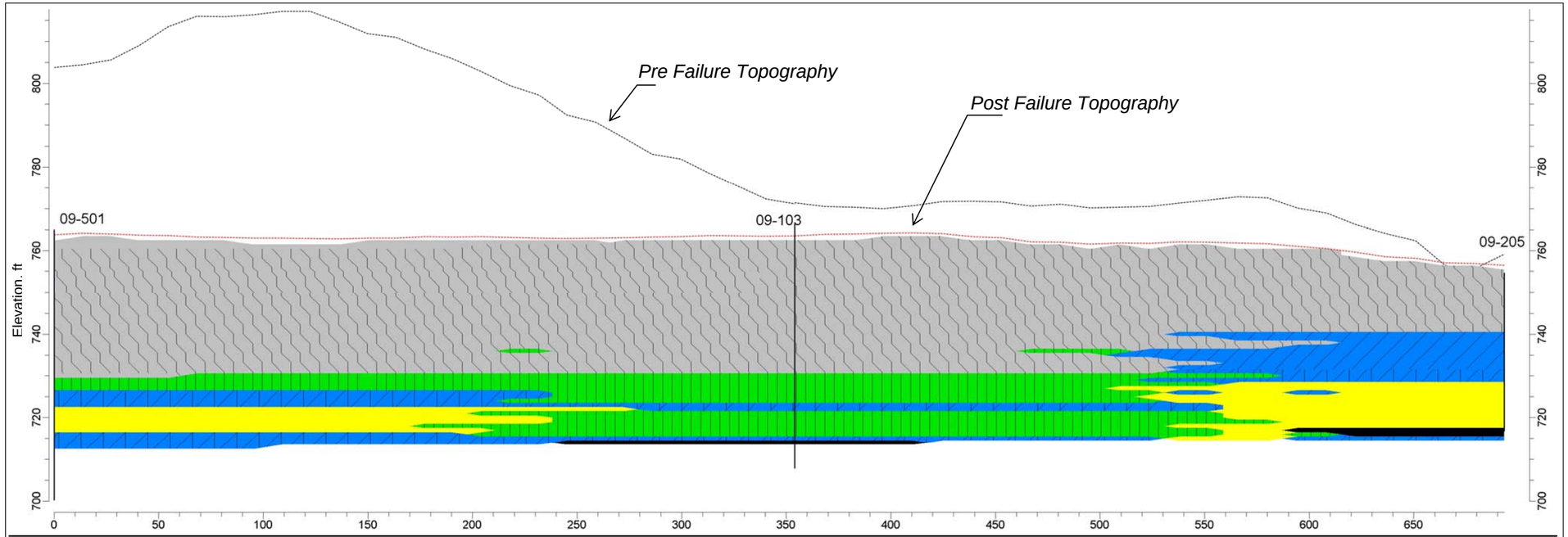


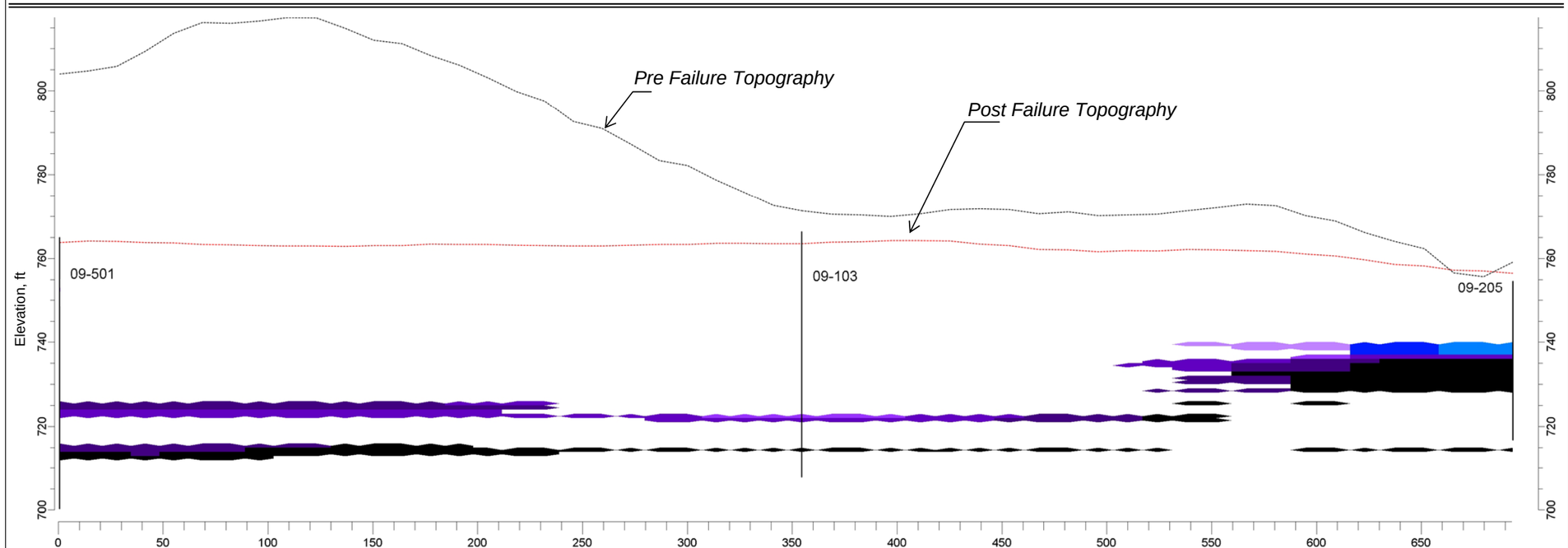
CALIBRATION OF CPT (Nkt) WITH VST DATA

Clays to Silty Clays: SBT=3

Sensitivity < 3







Note: The Soil Lithology (above) and the Undrained Shear Strength of the cohesive soils (below) were estimated from the Cone Penetration Test (CPT) Results. The Soil Lithology and Undrained Shear Strength from the CPTs were interpolated three dimensionally using Inverse-Distance Weighting algorithm with Weighting Exponents: H=1 and V=2.

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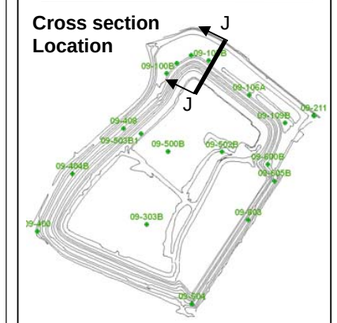
Legend
Soil Lithology
- Ash
- Clay
- Silt
- Sand
- Gravel
- Shale

Cross section Location



Legend
Undrained Shear Strength, psf
- 0 - 200
- 200 - 400
- 400 - 600
- 600 - 800
- 800 - 1,000
- 1,000 - 1,200
- 1,200 - 1,400
- 1,400 - 1,600
- 1,600 - 1,800
- 1,800 - 2,000
- 2,000 - 2,500
- 2,500 - 3,000
- 3,000 - 9,500

SOIL LITHOLOGY AND UNDRAINED SHEAR STRENGTH CONE PENETRATION TESTS SECTION J-J

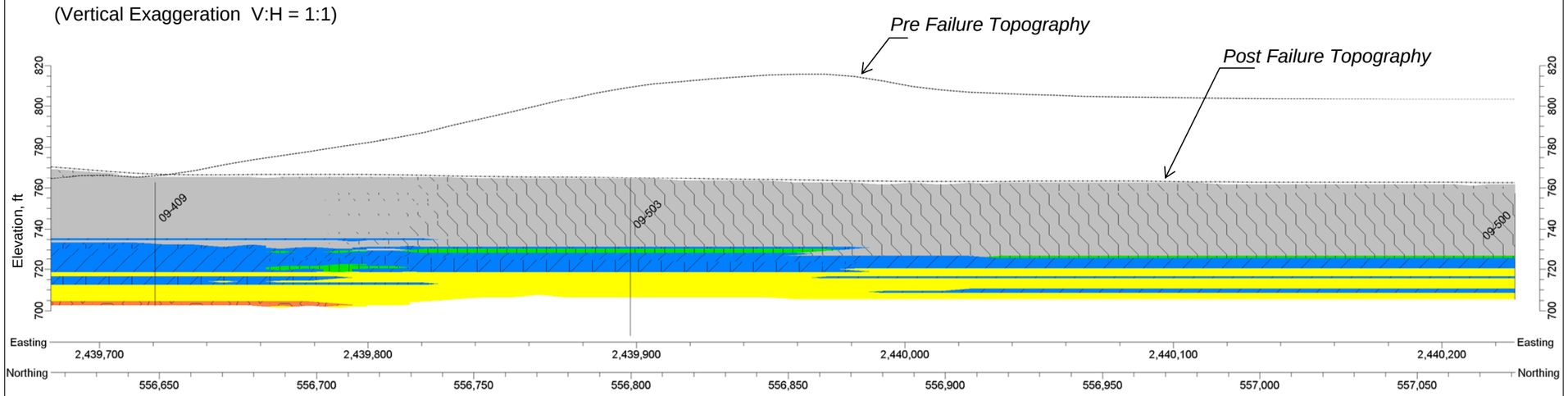
Designed: FS Drawn: ATV

Checked: LWB Approved: WHW

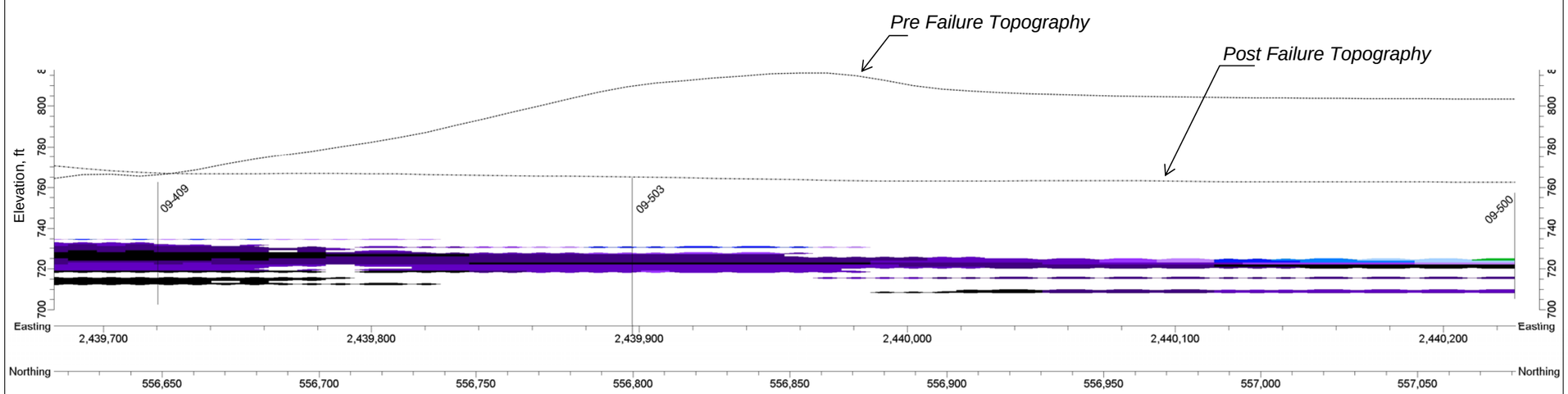
REFERENCE NUMBER

Figure 1.5.3_3

Soil Lithology
Section H - H
(Vertical Exaggeration V:H = 1:1)



Undrained Shear Strength (Cohesive Soils Only)
Section H – H
(Vertical Exaggeration V:H = 1:1)



Note: The Soil Lithology (above) and the Undrained Shear Strength of the cohesive soils (below) were estimated from the Cone Penetration Test (CPT) Results. The Soil Lithology and Undrained Shear Strength from the CPTs were interpolated three dimensionally using Inverse-Distance Weighting algorithm with Weighting Exponents: H=1 and V=2.

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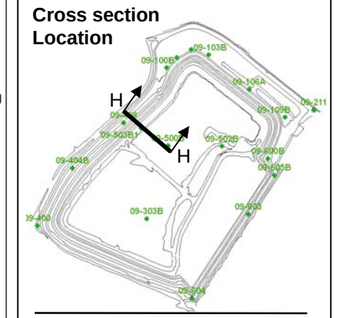
Legend
Soil Lithology
- Ash
- Clay
- Silt
- Sand
- Gravel
- Shale

Cross section Location



Legend
Undrained Shear Strength, psf
- 0 - 200
- 200 - 400
- 400 - 600
- 600 - 800
- 800 - 1,000
- 1,000 - 1,200
- 1,200 - 1,400
- 1,400 - 1,600
- 1,600 - 1,800
- 1,800 - 2,000
- 2,000 - 2,500
- 2,500 - 3,000
- 3,000 - 9,500

SOIL LITHOLOGY AND UNDRAINED SHEAR STRENGTH CONE PENETRATION TESTS SECTION H-H

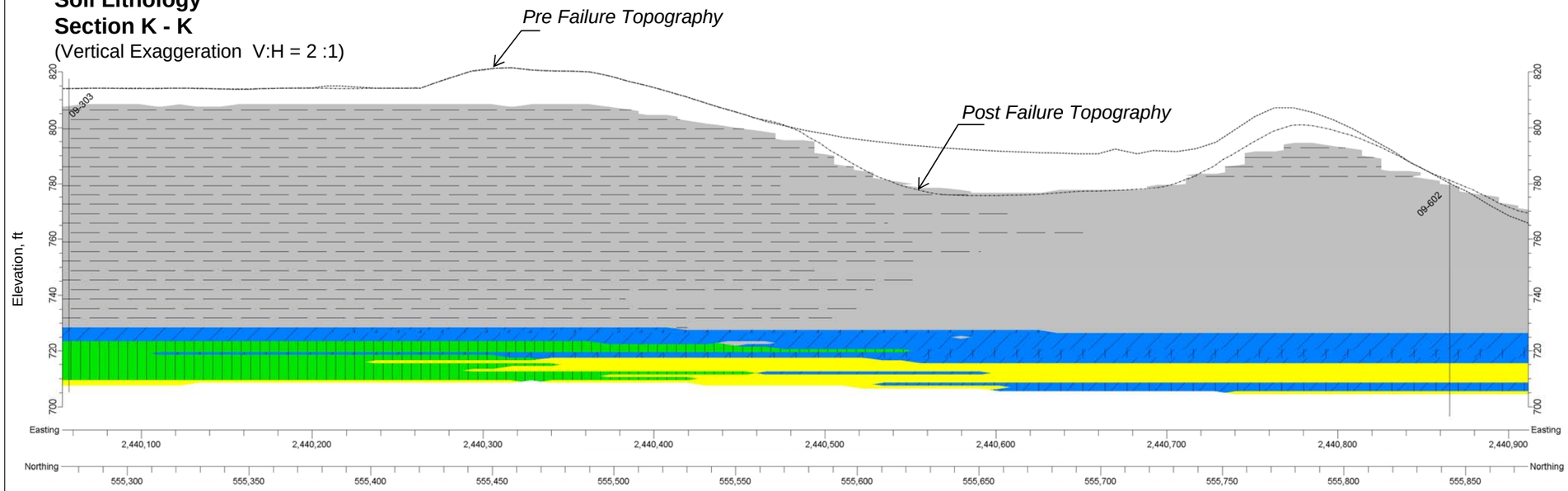
Designed: FS Drawn: ATV

Checked: LWB Approved: WHW

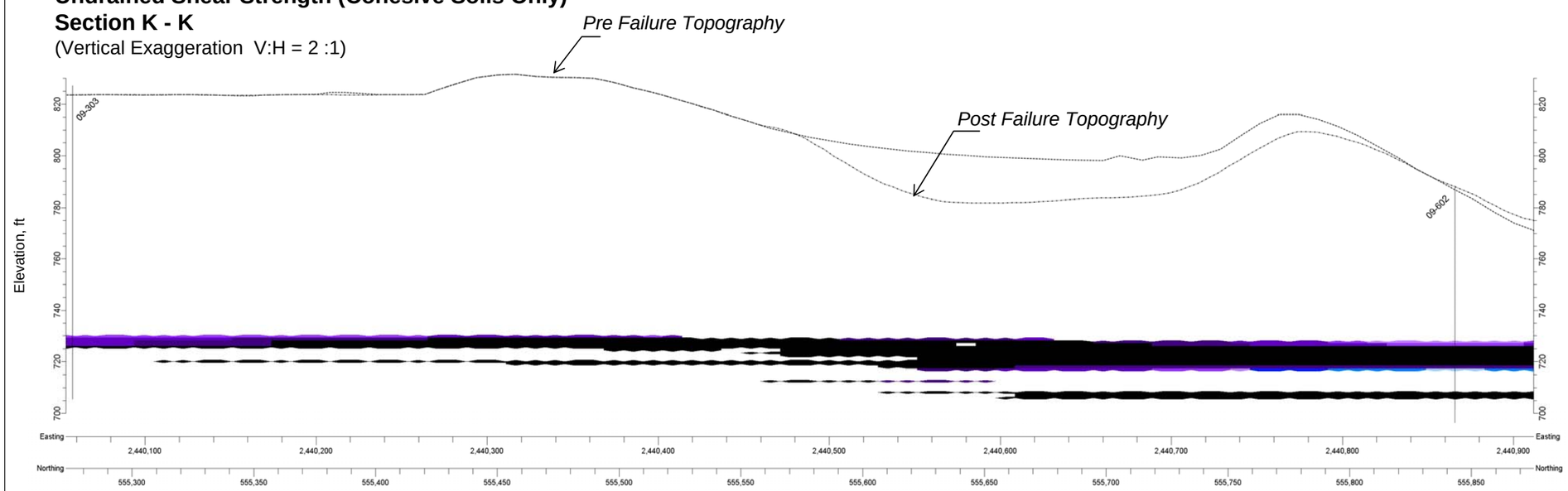
REFERENCE NUMBER

Figure 1.5.3_4

Soil Lithology
Section K - K
(Vertical Exaggeration V:H = 2 :1)



Undrained Shear Strength (Cohesive Soils Only)
Section K - K
(Vertical Exaggeration V:H = 2 :1)



Note: The Soil Lithology (above) and the Undrained Shear Strength of the cohesive soils (below) were estimated from the Cone Penetration Test (CPT) Results. The Soil Lithology and Undrained Shear Strength from the CPTs were interpolated three dimensionally using Inverse-Distance Weighting algorithm with Weighting Exponents: H=1 and V=2.

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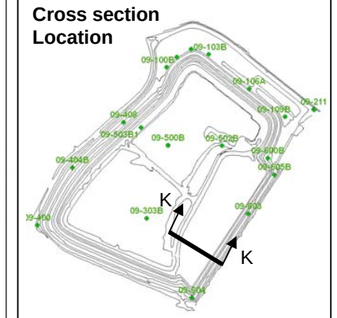
Legend
Soil Lithology
- Ash
- Clay
- Silt
- Sand
- Gravel
- Shale

Cross section Location



Legend
Undrained Shear Strength, psf
- 0 - 200
- 200 - 400
- 400 - 600
- 600 - 800
- 800 - 1,000
- 1,000 - 1,200
- 1,200 - 1,400
- 1,400 - 1,600
- 1,600 - 1,800
- 1,800 - 2,000
- 2,000 - 2,500
- 2,500 - 3,000
- 3,000 - 9,500

SOIL LITHOLOGY AND UNDRAINED SHEAR STRENGTH CONE PENETRATION TESTS SECTION K-K

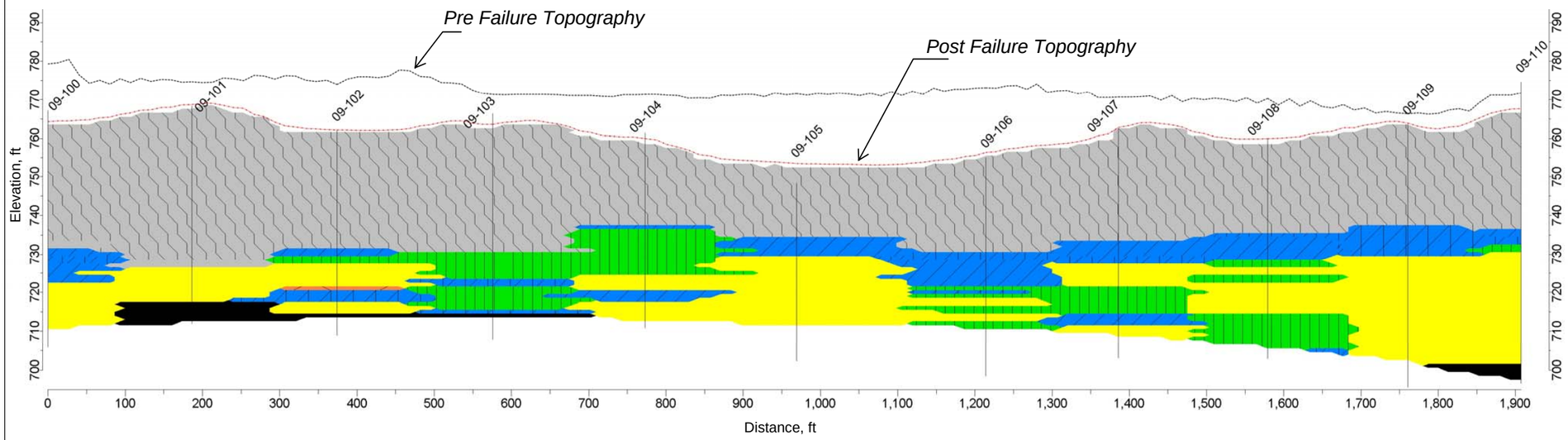
Designed: FS Drawn: ATV

Checked: LWB Approved: WHW

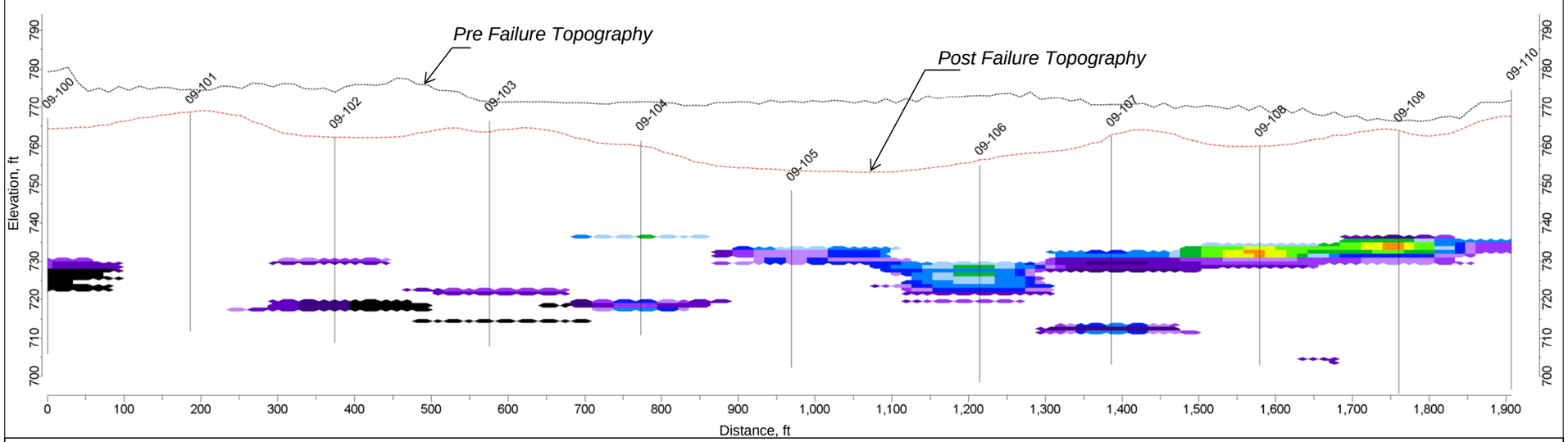
REFERENCE NUMBER

Figure 1.5.3_5

Soil Lithology
Sample Series 100
(Vertical Exaggeration V:H = 5 :1)



Undrained Shear Strength (Cohesive Soils Only)
Sample Series 100
(Vertical Exaggeration V:H = 5 :1)



Note: The Soil Lithology (above) and the Undrained Shear Strength of the cohesive soils (below) were estimated from the Cone Penetration Test (CPT) Results. The Soil Lithology and Undrained Shear Strength from the CPTs were interpolated three dimensionally using Inverse-Distance Weighting algorithm with Weighting Exponents: H=1 and V=2.

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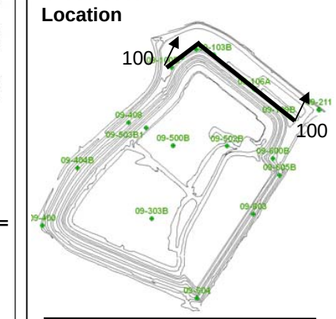
Legend
Soil Lithology
- Ash
- Clay
- Silt
- Sand
- Gravel
- Shale

Cross section Location



Legend
Undrained Shear Strength, psf
- 0 - 200
- 200 - 400
- 400 - 600
- 600 - 800
- 800 - 1,000
- 1,000 - 1,200
- 1,200 - 1,400
- 1,400 - 1,600
- 1,600 - 1,800
- 1,800 - 2,000
- 2,000 - 2,500
- 2,500 - 3,000
- 3,000 - 9,500

SOIL LITHOLOGY AND UNDRAINED SHEAR STRENGTH CONE PENETRATION TESTS SECTION 100

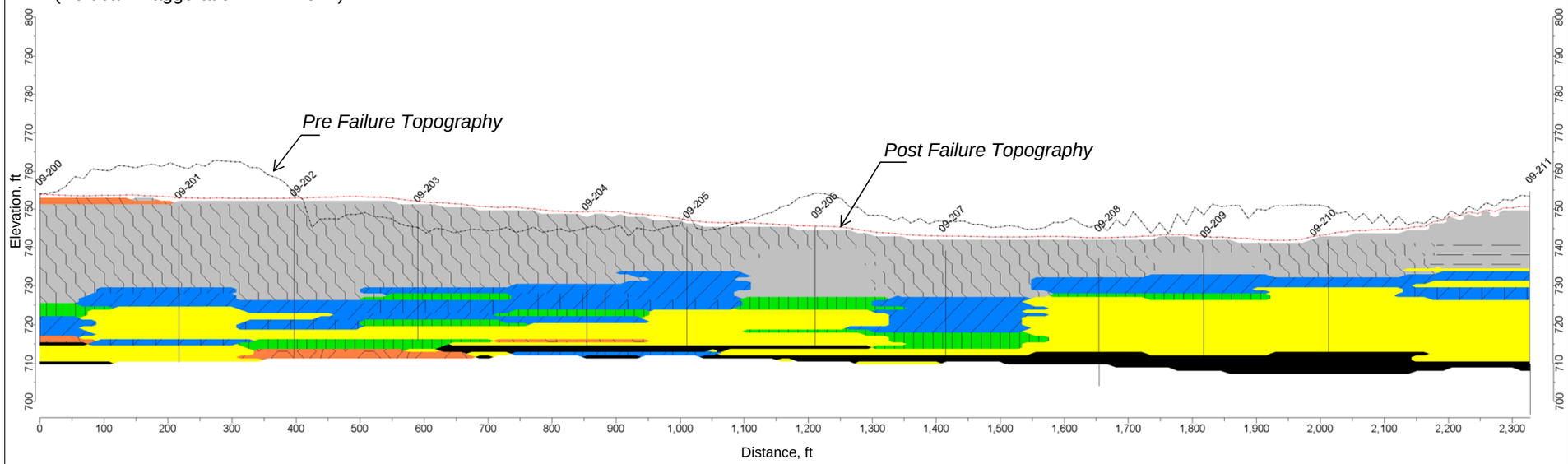
Designed: FS Drawn: ATV

Checked: LWB Approved: WHW

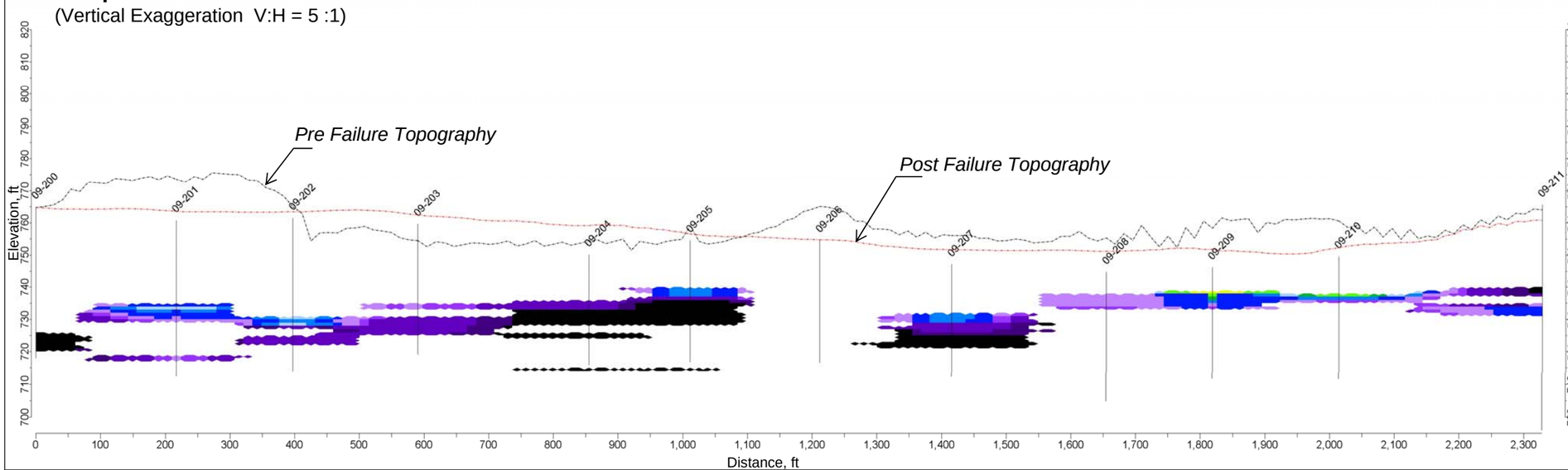
REFERENCE NUMBER

Figure 1.5.3_6

Soil Lithology
Sample Series 200
(Vertical Exaggeration V:H = 5 :1)



Undrained Shear Strength (Cohesive Soils Only)
Sample Series 200
(Vertical Exaggeration V:H = 5 :1)



Note: The Soil Lithology (above) and the Undrained Shear Strength of the cohesive soils (below) were estimated from the Cone Penetration Test (CPT) Results. The Soil Lithology and Undrained Shear Strength from the CPTs were interpolated three dimensionally using Inverse-Distance Weighting algorithm with Weighting Exponents: H=1 and V=2.

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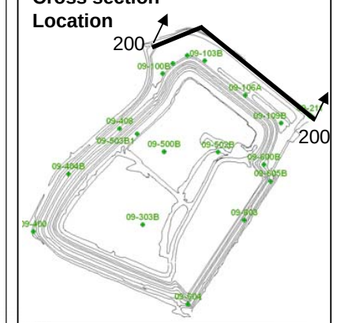
Legend
Soil Lithology
- Ash
- Clay
- Silt
- Sand
- Gravel
- Shale

Cross section Location



Legend
Undrained Shear Strength, psf
- 0 - 200
- 200 - 400
- 400 - 600
- 600 - 800
- 800 - 1,000
- 1,000 - 1,200
- 1,200 - 1,400
- 1,400 - 1,600
- 1,600 - 1,800
- 1,800 - 2,000
- 2,000 - 2,500
- 2,500 - 3,000
- 3,000 - 9,500

SOIL LITHOLOGY AND UNDRAINED SHEAR STRENGTH CONE PENETRATION TESTS SECTION 200

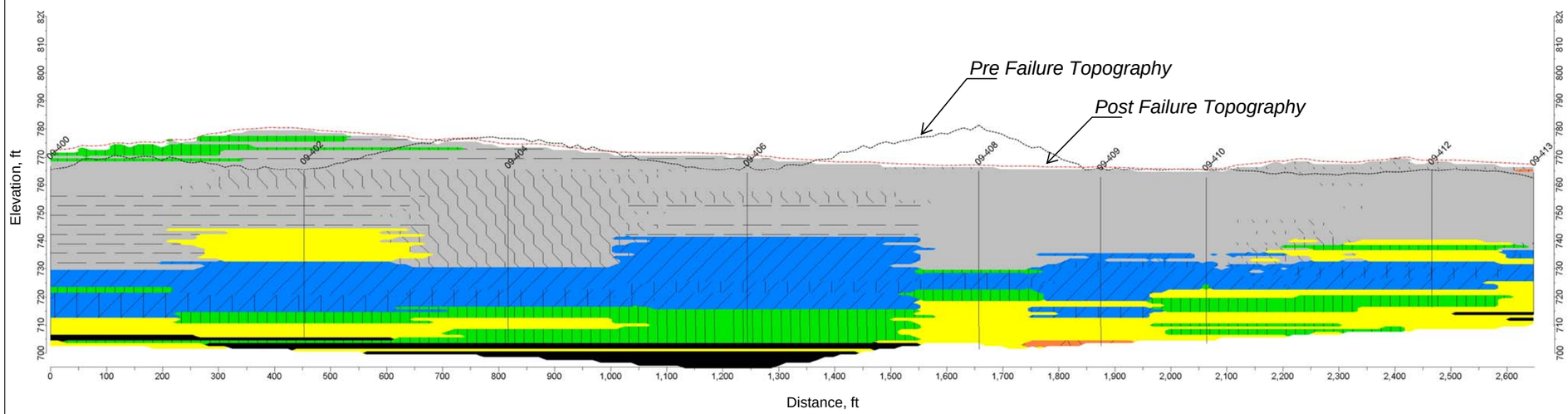
Designed: FS Drawn: ATV

Checked: LWB Approved: WHW

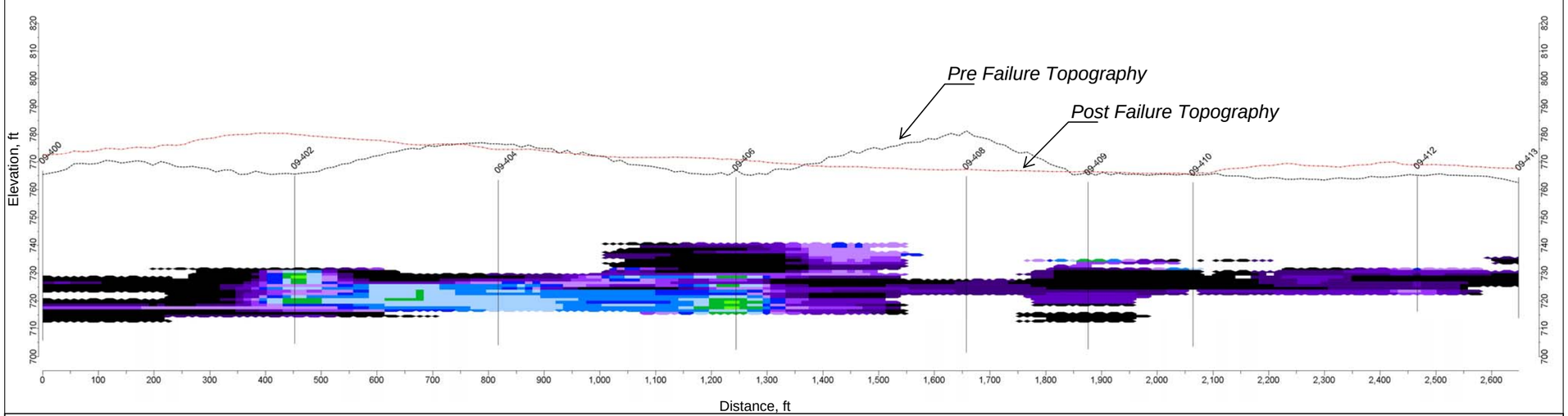
REFERENCE NUMBER

Figure 1.5.3_7

Soil Lithology
Sample Series 400
(Vertical Exaggeration V:H = 5 :1)



Undrained Shear Strength (Cohesive Soils Only)
Sample Series 400
(Vertical Exaggeration V:H = 5 :1)



Note: The Soil Lithology (above) and the Undrained Shear Strength of the cohesive soils (below) were estimated from the Cone Penetration Test (CPT) Results. The Soil Lithology and Undrained Shear Strength from the CPTs were interpolated three dimensionally using Inverse-Distance Weighting algorithm with Weighting Exponents: H=1 and V=2.

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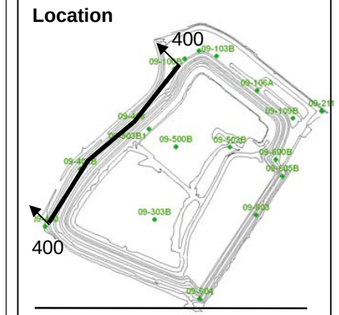
Legend
Soil Lithology
- Ash
- Clay
- Silt
- Sand
- Gravel
- Shale

Cross section Location



Legend
Undrained Shear Strength, psf
- 0 - 200
- 200 - 400
- 400 - 600
- 600 - 800
- 800 - 1,000
- 1,000 - 1,200
- 1,200 - 1,400
- 1,400 - 1,600
- 1,600 - 1,800
- 1,800 - 2,000
- 2,000 - 2,500
- 2,500 - 3,000
- 3,000 - 9,500

SOIL LITHOLOGY AND UNDRAINED SHEAR STRENGTH CONE PENETRATION TESTS SECTION 400

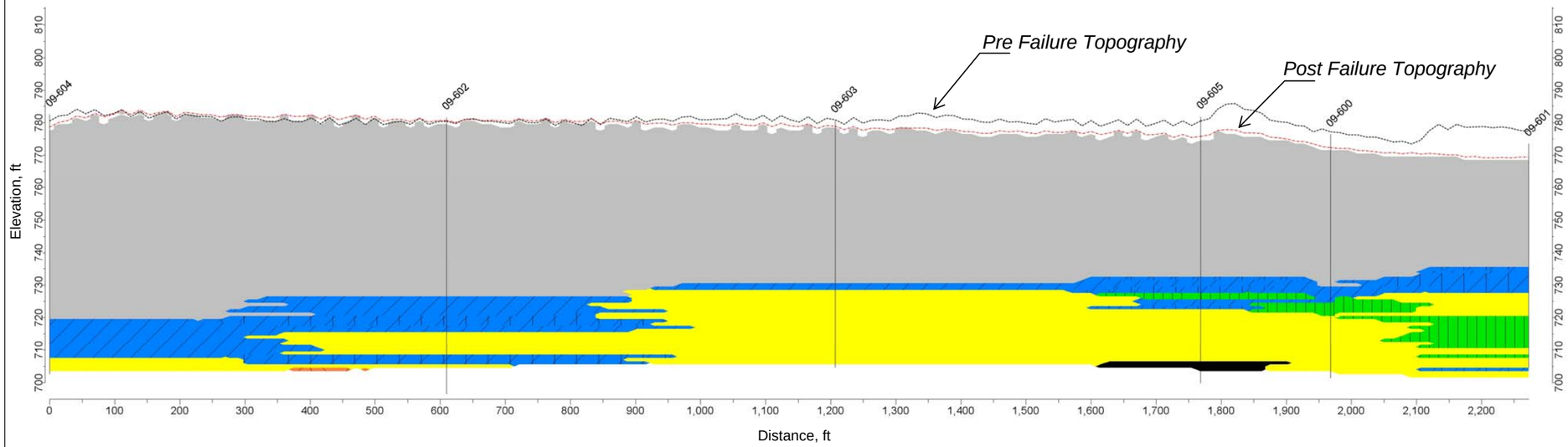
Designed: FS Drawn: ATV

Checked: LWB Approved: WHW

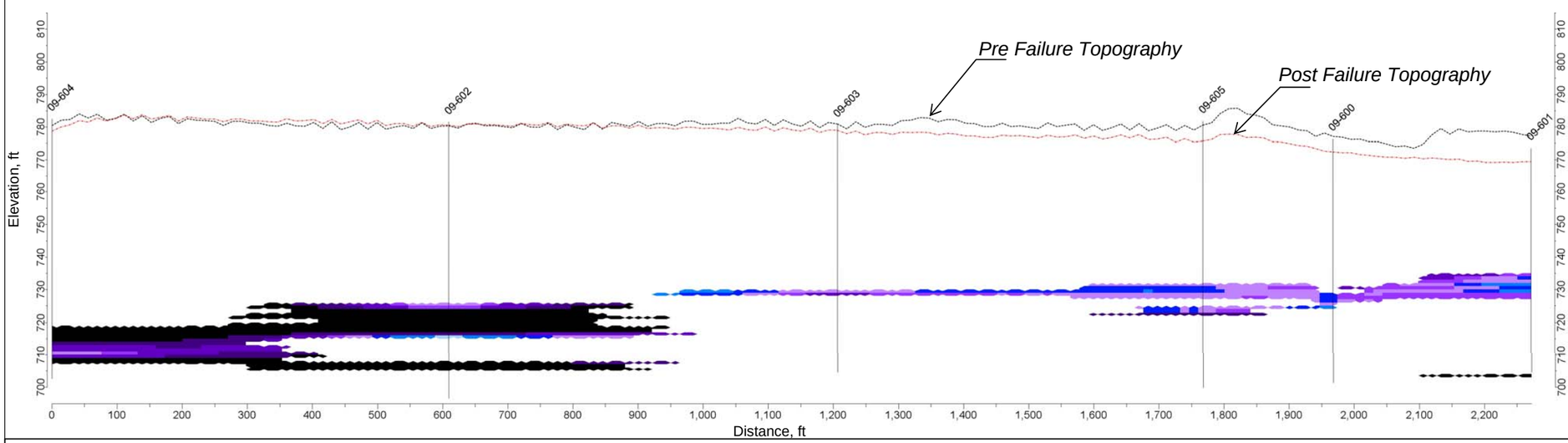
REFERENCE NUMBER

Figure 1.5.3_8

Soil Lithology
Sample Series 600
(Vertical Exaggeration V:H = 5 :1)



Undrained Shear Strength (Cohesive Soils Only)
Sample Series 600
(Vertical Exaggeration V:H = 5 :1)



Note: The Soil Lithology (above) and the Undrained Shear Strength of the cohesive soils (below) were estimated from the Cone Penetration Test (CPT) Results. The Soil Lithology and Undrained Shear Strength from the CPTs were interpolated three dimensionally using Inverse-Distance Weighting algorithm with Weighting Exponents: H=1 and V=2.

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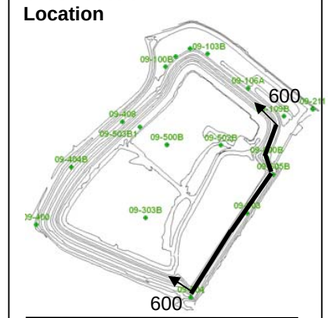
Legend
Soil Lithology
- Ash
- Clay
- Silt
- Sand
- Gravel
- Shale

Cross section Location



Legend
Undrained Shear Strength, psf
- 0 - 200
- 200 - 400
- 400 - 600
- 600 - 800
- 800 - 1,000
- 1,000 - 1,200
- 1,200 - 1,400
- 1,400 - 1,600
- 1,600 - 1,800
- 1,800 - 2,000
- 2,000 - 2,500
- 2,500 - 3,000
- 3,000 - 9,500

SOIL LITHOLOGY AND UNDRAINED SHEAR STRENGTH CONE PENETRATION TESTS SECTION 600

Designed: FS Drawn: ATV

Checked: LWB Approved: WHW

REFERENCE NUMBER

Figure 1.5.3_9