APPENDIX 17B

Key Observation Points for the Cog Rail Alternative

KOPs in this appendix are listed in ascending order.

KOP 4 – Existing Condition – Quarry Trailhead

KOP 4 – Proposed Condition – Quarry Trailhead (Cog Rail Alternative)

Form 8400 - 4
(September 1985)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date November 12, 2020

District N/A

Resource Area N/A

Activity (program) N/A

SECTION A. PROJECT INFORMATION

1. Project Name: Little Cottonwood Canyon Wasatch Blvd to Alta Transportation Improvements

2. Key Observation Point: 4 - Quarry Trailhead (Cog Rail Alternative)

3. VRM Class N/A

4. Location
See figure in EIS section

5. Location Sketch
See figure in EIS section

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Rugged, broken canyon faces; rounded irregular cliffs; distinct spines and angled linear drainages transition to chunky, broken, exposed granite walls; tiered parking lot set above roadway	Consistent, dense shrub and deciduous forest; some indistinct shrubs and low grasses	Flat, horizontal roadway; some geometric, upright signage; horizontal transmission cables overhead attached to upright, vertical utility poles
LINE	Irregular and inconsistent rock bands; undulating broken ridgeline; directional breakage along cliff face	Amorphic lines created by tree groupings; distinct lines between dense vegetation and exposed cliff	Curvilinear roadway; horizontal and vertical lines of energy infrastructure
COLOR	Whitish-gray cliffs with dark gray to black vertical striations	Yellowish-green to dark green shrubs	Dark gray asphalt; natural wood utility poles; gray cables and energy infrastructure
TEX-TURE	Broken, soft and rounded edged cliff face that transitions to some medium boulders roadside	Consistent, carpeted, and dense forest	Smooth, continuous roadway; fine cables; inconsistent energy infrastructure

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Low, tapered, or benched flat parking and train railyard area	Low to nonexistent in areas of disturbance	Tall, rectangular, linear geometric form of two-story maintenance facility; linear, thin, parallel rail tracks; flat, broad parking lot
LINE	Horizontal and directional in relation to canyon	Abrupt and definitive at transitions of soil and vegetation changes	Bold, rigid, vertical and horizontal lines of maintenance facility; parallel, continuous lines of rail tracks; distinctive edge of pavement areas
COLOR	Light to dark brown of exposed soils in areas of earthwork	Light golden to gray green of new vegetation (grasses and low shrubs)	Unknown of maintenance facility; dark brown to black tones of rail tracks; dark gray of pavement
TEX-TURE	Smooth and continuous along areas of disturbance; inconsistent with surrounding textures	Smooth to patchy in areas of disturbance; abrupt at soil and vegetation transitions	Rigid and directional of maintenance facility; fine, continuous, and directional of rail tracks; smooth and directional of park and ride lot/paved areas

SECTION D. CONTRAST RATING ☐ SHORT TERM X LONG TERM

1. DEGREE OF CONSTRAST

		FEATURES											
		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None
ELEMENTS	Form		X					X		X			
	Line		X					X		X			
	Color			X				X		X			
	Texture			X				X		X			

2. Does project design meet visual resource management objectives? ☐ Yes ☐ No (Explain on reverse side) N/A

3. Additional mitigating measures recommended? ☐ Yes ☐ No (Explain on reverse side)
TBD

Evaluator's Names — Date
Laren Cyphers/ Chris Bockey 11/12/2020

Comments from item 2.

Additional Mitigating Measures (See item 3)

To be developed based on further design information.

U.S. GOVERNMENT PRINTING OFFICE: 1985-461-988/33094

KOP 5 – Existing Condition – Wasatch Resort

Note: Proposed Condition simulation not included for this KOP.

Form 8400 - 4
(September 1985)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date November 12, 2020

District N/A

Resource Area N/A

Activity (program) N/A

SECTION A. PROJECT INFORMATION

1. Project Name: Little Cottonwood Canyon Wasatch Blvd to Alta Transportation Improvements

2. Key Observation Point: 5 - Wasatch Resort (Cog Rail Alternative)

3. VRM Class N/A

4. Location
See figure in EIS section

5. Location Sketch
See figure in EIS section

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Rugged, broken, rounded edged cliff faces	Consistent, dense shrub and deciduous forest; low grasses in foreground	Clustered residential development; built forms for landscaping; low-voltage 69-kV transmission line in immediate and middle foreground; flat roadway for devilment
LINE	Irregular and inconsistent rock bands; directional breakage in cliffside; broken ridgeline on V-shaped horizon; intersecting cliffs create focal point	Amorphic lines created by tree groupings; distinct line between vegetation and rock	Tall, vertical poles; horizontal, continuous thin electric lines
COLOR	Whitish-gray cliffs with subtle tan to yellow streaks	Yellowish-green to mostly dark forest and shrubs	Buckskin poles; light gray attached infrastructure; darker wood transmission line in distance
TEX-TURE	Soft cliff face with inconsistent breakage	Consistent, carpeted, dense forest	Irregular residential area; linear, smooth, continuous distribution line

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	No perceived change.	No perceived change.	No perceived change.
LINE	No perceived change.	No perceived change.	No perceived change.
COLOR	No perceived change.	No perceived change.	No perceived change.
TEX-TURE	No perceived change.	No perceived change.	No perceived change.

SECTION D. CONTRAST RATING ☐ SHORT TERM X LONG TERM

1. DEGREE OF CONSTRAST		FEATURES											
		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None
ELEMENTS	Form				X				X				X
	Line				X				X				X
	Color				X				X				X
	Texture				X				X				X

2. Does project design meet visual resource management objectives? ☐ Yes ☐ No (Explain on reverse side) N/A

3. Additional mitigating measures recommended? ☐ Yes ☐ No (Explain on reverse side)
TBD

Evaluator's Names — Date
Laren Cyphers/ Chris Bockey 11/12/2020

Comments from item 2.
N/A

Additional Mitigating Measures (See item 3)

To be developed based on further design information.

U.S. GOVERNMENT PRINTING OFFICE: 1985-461-988/33094

KOP 6 – Existing Condition – Gate Buttress Trailhead

Note: Proposed Condition simulation not included for this KOP.

Form 8400 - 4
(September 1985)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date November 12, 2020

District N/A

Resource Area N/A

Activity (program) N/A

SECTION A. PROJECT INFORMATION

1. Project Name: Little Cottonwood Canyon Wasatch Blvd to Alta Transportation Improvements

2. Key Observation Point: 6 - Gate Buttress Trailhead (Cog Rail Alternative)

3. VRM Class N/A

4. Location
See figure in EIS section

5. Location Sketch
See figure in EIS section

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Rugged, broken canyon faces; rounded, irregular cliffs	Consistent, dense shrub and deciduous forest; some indistinct shrubs and low grasses	Flat, smooth road
LINE	Irregular and inconsistent rock bands; undulating, broken ridgeline; directional breakage along cliff face	Amorphic lines created by tree groupings	Sinuous, curvilinear road
COLOR	Whitish-gray cliffs with dark gray to black vertical striations	Yellowish-green to dark green shrubs	Muted dark gray of roadway surface
TEX-TURE	Broken soft and rounded edged cliff face which transitions to some medium boulders roadside	Consistent, carpeted, and dense forest	Smooth and consistent roadway

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Flat, tapered transition of disturbance area to toe of slope	Low to nonexistent in areas of disturbance	Flat, geometric form of trailhead parking area; linear, thin, parallel rail tracks; geometric pattern of highway guardrail
LINE	Distinctive and directional in areas of disturbance	Abrupt and definitive at transitions of soil and vegetation changes	Distinctive edges of parking and pedestrian areas associated with trailhead parking; maintenance facility; parallel, continuous lines of rail tracks; continuous, horizontal line of guardrail
COLOR	Light brown to gray of disturbed soils	Light golden to gray-green of new vegetation (grasses and low shrubs)	Dark grays of pavement; dark brown to black tones of rail tracks; dull gray of guardrail
TEX-TURE	Directional, consistent; overall smooth in areas of disturbance	Smooth to patchy in areas of disturbance; abrupt at soil and vegetation transitions	Smooth and directional of parking area; fine, continuous, and directional of rail tracks and guardrail

SECTION D. CONTRAST RATING ☐ SHORT TERM X LONG TERM

1. DEGREE OF CONSTRAST

		FEATURES											
		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None
ELEMENTS	Form		X					X			X		
	Line		X				X				X		
	Color			X				X				X	
	Texture			X				X				X	

2. Does project design meet visual resource management objectives? ☐ Yes ☐ No (Explain on reverse side) N/A

3. Additional mitigating measures recommended? ☐ Yes ☐ No (Explain on reverse side)
TBD

Evaluator's Names — Date
Laren Cyphers/ Chris Bockey 11/12/2020

Comments from item 2.
N/A

Additional Mitigating Measures (See item 3)

To be developed based on further design information.

U.S. GOVERNMENT PRINTING OFFICE: 1985-461-988/33094

KOP 7 – Existing Condition – Bridge Trailhead

KOP 7 – Proposed Condition – Bridge Trailhead (Cog Rail Alternative)

Form 8400 - 4
(September 1985)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date November 12, 2020

District N/A

Resource Area N/A

Activity (program) N/A

SECTION A. PROJECT INFORMATION

1. Project Name: Little Cottonwood Canyon Wasatch Blvd to Alta Transportation Improvements

2. Key Observation Point: 7 - Bridge Trailhead (Cog Rail Alternative)

3. VRM Class N/A

4. Location
See figure in EIS section

5. Location Sketch
See figure in EIS section

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Enclosed, rugged, broken canyon faces; scree slopes	Distinct, conical evergreens; shrubby, dense deciduous trees; moderate-height shrubs and low grasses	Flat, smooth road
LINE	Broken, converging, irregular, inconsistent lines along canyon faces and ridges	Distinct transition between cut slope and hill; lines created by variation in vegetation	Sinuous, curvilinear road
COLOR	Light tan to light gray soil; soft gray with reddish-toned cliffside	Vibrant yellowish-green to lime green to dark, muted green; isolated gray to dark brown of wood material	Muted dark gray of roadway surface
TEX-TURE	Jagged, rigged, inconsistent, coarse cliffs; broken, cobbled sandy roadside	Consistent, dense vegetation; more stippled on rocky slopes; gradational pattern based on vegetation height	Smooth and consistent roadway

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Flat, tapered transition of disturbance area to toe of slope	Low to nonexistent in areas of disturbance	Linear, thin, parallel rail tracks and rectangular railbed; geometric form of concrete barrier
LINE	Distinctive and directional in areas of disturbance	Abrupt and definitive at transitions of soil and vegetation changes	Parallel, continuous lines of rail tracks and railbed; linear and continuous of concrete barrier and retaining wall
COLOR	Light brown to gray of disturbed soils	Light golden to gray-green of new vegetation (grasses and low shrubs)	Dark brown to black tones of rail tracks and ballast; light gray of railbed, barrier concrete, and retaining wall
TEX-TURE	Directional, consistent; overall smooth in areas of disturbance	Smooth to patchy in areas of disturbance; abrupt at soil and vegetation transitions	Fine, continuous, and directional of rail tracks, railbed, and concrete barrier

SECTION D. CONTRAST RATING ☐ SHORT TERM X LONG TERM

1. DEGREE OF CONSTRAST

		FEATURES											
		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None
ELEMENTS	Form	X					X			X			
	Line	X					X			X			
	Color	X						X			X		
	Texture		X					X		X			

2. Does project design meet visual resource management objectives? ☐ Yes ☐ No (Explain on reverse side) N/A

3. Additional mitigating measures recommended? ☐ Yes ☐ No (Explain on reverse side)
TBD

Evaluator's Names — Date
Laren Cyphers/ Chris Bockey 11/12/2020

Comments from item 2.
N/A

Additional Mitigating Measures (See item 3)

To be developed based on further design information.

U.S. GOVERNMENT PRINTING OFFICE: 1985-461-988/33094

KOP 8 – Existing Condition – Lisa Falls Trailhead

Note: Proposed Condition simulation not included for this KOP.

Form 8400 - 4
(September 1985)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date November 12, 2020

District N/A

Resource Area N/A

Activity (program) N/A

SECTION A. PROJECT INFORMATION

1. Project Name: Little Cottonwood Canyon Wasatch Blvd to Alta Transportation Improvements

2. Key Observation Point: 8 -Lisa Falls Trailhead (Cog Rail Alternative)

3. VRM Class N/A

4. Location
See figure in EIS section

5. Location Sketch
See figure in EIS section

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Enclosed, rugged, broken canyon faces; scree slopes	Distinct, conical evergreens; shrubby, dense deciduous trees; moderate-height shrubs and low grasses	Flat, smooth road
LINE	Broken, converging, irregular, inconsistent lines along canyon faces and ridges	Distinct transition between cut slope and hill; lines created by variation in vegetation	Sinuous, curvilinear road
COLOR	Light tan to light gray soil; soft gray with reddish-toned cliffside	Vibrant yellowish-green to lime green to dark, muted green; isolated gray to dark brown of wood material	Muted dark gray of roadway surface
TEX-TURE	Jagged, rigged, inconsistent, coarse cliffs; broken, cobbled sandy roadside	Consistent, dense vegetation; more stippled on rocky slopes; gradational pattern based on vegetation height	Smooth and consistent roadway

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Flat, tapered transition of disturbance area to toe of slope	Low to nonexistent in areas of disturbance	Flat, geometric form of trailhead parking area; linear, thin, parallel rail tracks; geometric pattern of highway guardrail
LINE	Distinctive and directional in areas of disturbance	Abrupt and definitive at transitions of soil and vegetation changes	Distinctive edges of parking and pedestrian areas associated with trailhead parking; maintenance facility; parallel, continuous lines of rail tracks; continuous, horizontal line of guardrail
COLOR	Light brown to gray of disturbed soils	Light golden to gray-green of new vegetation (grasses and low shrubs)	Dark grays of pavement; dark brown to black tones of rail tracks; dull gray of guardrail
TEX-TURE	Directional, consistent; overall smooth in areas of disturbance	Smooth to patchy in areas of disturbance; abrupt at soil and vegetation transitions	Smooth and directional of parking area; fine, continuous, and directional of rail tracks and guardrail

SECTION D. CONTRAST RATING ☐ SHORT TERM X LONG TERM

1. DEGREE OF CONSTRAST

ELEMENTS	FEATURES: LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None
Form	X						X			X		
Line	X					X				X		
Color			X				X				X	
Texture			X				X				X	

2. Does project design meet visual resource management objectives? ☐ Yes ☐ No (Explain on reverse side) N/A

3. Additional mitigating measures recommended? ☐ Yes ☐ No (Explain on reverse side)
TBD

Evaluator's Names — Date
Laren Cyphers/ Chris Bockey 11/12/20

Comments from item 2.
N/A

Additional Mitigating Measures (See item 3)

To be developed based on further design information.

U.S. GOVERNMENT PRINTING OFFICE: 1985-461-988/33094

KOP 9 – Existing Condition – Tanners Flat Group Site C

Note: Proposed Condition simulation not included for this KOP.

Form 8400 - 4
(September 1985)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date November 13, 2020

District N/A

Resource Area N/A

Activity (program) N/A

SECTION A. PROJECT INFORMATION

1. Project Name: Little Cottonwood Canyon Wasatch Blvd to Alta Transportation Improvements

2. Key Observation Point: 9 - Tanner's Flat Group Site C (Cog Rail Alternative)

3. VRM Class N/A

4. Location
See figure in EIS section

5. Location Sketch
See figure in EIS section

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Flat canyon bottom; canyon walls mostly obstructed by vegetation and inferior viewpoint; rugged mountain ridgeline seen to the northeast	Vertical, dense, scraggly deciduous trees and shrubs in foreground; conical evergreens at higher elevations	Organized , angular, rigid campground infrastructure; flat, horizontal roadway and parking lot
LINE	Sloping ridgeline tapering to canyon bottom	Distinct lines between deciduous trees and shrubs and developed campgrounds; vertical trees	Horizontal and vertical lines of infrastructure; curvilinear parking lot
COLOR	Dark brown exposed soils; gray to light gray exposed granite rocks in campground	Yellowish-green deciduous trees; dark green evergreens in background	Grays, blacks, and browns of infrastructure; dark gray asphalt
TEX-TURE	Rugged, tapered canyon walls transition to a generally flat, uniform canyon bottom	Dense, inconsistent, grouped vegetation with varied heights	Organized, unnatural, rigid infrastructure; smooth roadway and parking lot

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	No perceived change.	No perceived change.	No perceived change.
LINE	No perceived change.	No perceived change.	No perceived change.
COLOR	No perceived change.	No perceived change.	No perceived change.
TEX-TURE	No perceived change.	No perceived change.	No perceived change.

SECTION D. CONTRAST RATING ☐ SHORT TERM X LONG TERM

1. DEGREE OF CONSTRAST		FEATURES											
		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None
ELEMENTS	Form				X				X				X
	Line				X				X				X
	Color				X				X				X
	Texture				X				X				X

2. Does project design meet visual resource management objectives? ☐ Yes ☐ No (Explain on reverse side) N/A

3. Additional mitigating measures recommended? ☐ Yes ☐ No (Explain on reverse side)
TBD

Evaluator's Names — Date
Laren Cyphers/ Chris Bockey 11/13/2020

Comments from item 2.
N/A

Additional Mitigating Measures (See item 3)

To be developed based on further design information.

U.S. GOVERNMENT PRINTING OFFICE: 1985-461-988/33094

KOP 11 – Existing Condition – Southwest Toward Tanner’s Flat (S.R. 210)

Note: Proposed Condition simulation not included for this KOP.

Form 8400 - 4
(September 1985)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date November 13, 2020

District N/A

Resource Area N/A

Activity (program) N/A

SECTION A. PROJECT INFORMATION

1. Project Name: Little Cottonwood Canyon Wasatch Blvd to Alta Transportation Improvements

2. Key Observation Point: 11 - Southwest Toward Tanner's Flat (S.R. 210) (Cog Rail Alternative)

3. VRM Class N/A

4. Location
See figure in EIS section

5. Location Sketch
See figure in EIS section

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Enclosed, rugged, broken canyon faces; scree slopes; abrupt transition to northeastern slope from flat roadway	Distinct, conical evergreens; shrubby, dense deciduous trees; moderate-height shrubs and low grasses	Flat, smooth road
LINE	Broken, irregular, inconsistent lines along canyon faces and ridges	Distinct transition between bare roadway and gradually more vegetated hill; lines created by variation in vegetation	Sinuous, curvilinear road
COLOR	Light tan to light gray soil; soft gray granite cliffside and loose rock near roadside	Vibrant yellowish-green to lime green to dark, muted green; isolated gray to dark brown of wood material	Muted dark gray of roadway surface
TEX-TURE	Ridged, inconsistent, coarse cliffs; broken, cobbled sandy roadside	Consistent, dense vegetation; gradational pattern based on vegetation height	Smooth and consistent roadway

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	No perceived change.	No perceived change.	Geometric openings of snow shed and enclosure
LINE	No perceived change.	No perceived change.	Distinctive vertical and horizontal lines of snow shed
COLOR	No perceived change.	No perceived change.	Light muted gray of concrete snow shed
TEX-TURE	No perceived change.	No perceived change.	Rigid, hard, and repetitive elements of snow shed; smooth finishes and surfaces

SECTION D. CONTRAST RATING ☐ SHORT TERM X LONG TERM

1. DEGREE OF CONSTRAST

		FEATURES											
		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None
ELEMENTS	Form				X				X	X			
	Line				X				X	X			
	Color				X				X	X			
	Texture				X				X	X			

2. Does project design meet visual resource management objectives? ☐ Yes ☐ No (Explain on reverse side) N/A

3. Additional mitigating measures recommended? ☐ Yes ☐ No (Explain on reverse side) TBD

Evaluator's Names — Date
Laren Cyphers/ Chris Bockey 11/13/2020

SECTION D. (Continued)

Comments from item 2.
N/A

Additional Mitigating Measures (See item 3)

To be developed based on further design information.

U.S. GOVERNMENT PRINTING OFFICE: 1985-461-988/33094

KOP 12 – Existing Condition – Second Snow Shed (S.R. 210)

Note: Proposed Condition simulation not included for this KOP.

Form 8400 - 4
(September 1985)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date November 13, 2020

District N/A

Resource Area N/A

Activity (program) N/A

SECTION A. PROJECT INFORMATION

1. Project Name: Little Cottonwood Canyon Wasatch Blvd to Alta Transportation Improvements

2. Key Observation Point: 12 - Second Snow Shed (S.R. 210) (Cog Rail Alternative)

3. VRM Class N/A

4. Location
See figure in EIS section

5. Location Sketch
See figure in EIS section

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Enclosed, rugged canyon faces and ridgelines; scree slopes	Distinct, conical evergreens; shrubby, dense deciduous trees; moderate-height shrubs and low grasses	Flat, smooth road
LINE	Broken, irregular, inconsistent lines along canyon ridges	Distinct transition between bare roadway and tall conifers; lines created by variation in vegetation	Sinuous, curvilinear road
COLOR	Light tan to light gray soil; soft gray granite cliffside and loose rock near roadside	Vibrant yellowish-green to lime green to dark, muted green; isolated gray to dark brown of wood material	Muted dark gray of roadway surface
TEX-TURE	Ridged, inconsistent, coarse cliffs; broken, cobbled sandy roadside	Consistent, dense vegetation; gradational pattern based on vegetation height	Smooth and consistent roadway

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Horizontal, tapered transition into slope of snow chute	Low, indistinct grasses and shrubs	Geometric openings of snow shed and enclosure
LINE	Subtle line created between snow shed and earth	Line between vegetation type and height; soft, undulating lines	Distinctive vertical and horizontal lines of snow shed
COLOR	Dark brown to light gray exposed soil	Seasonal variety assumed based on revegetation; Removal of dark evergreen trees	Light muted gray of concrete snow shed
TEX-TURE	Smooth, consistent, and feathered to existing slope	Shorter stature oak brush; gradual tapering; loss of vertical elements	Rigid, hard, and repetitive elements of snow shed

SECTION D. CONTRAST RATING ☐ SHORT TERM X LONG TERM

1. DEGREE OF CONSTRAST

		FEATURES											
		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None
ELEMENTS	Form				X				X	X			
	Line				X				X	X			
	Color				X				X	X			
	Texture				X				X	X			

2. Does project design meet visual resource management objectives? ☐ Yes ☐ No (Explain on reverse side) N/A

3. Additional mitigating measures recommended? ☐ Yes ☐ No (Explain on reverse side)
TBD

Evaluator's Names — Date
Laren Cyphers/ Chris Bockey 11/13/2020

Comments from item 2.
N/A

Additional Mitigating Measures (See item 3)

To be developed based on further design information.

U.S. GOVERNMENT PRINTING OFFICE: 1985-461-988/33094

KOP 13 – Existing Condition – Third Snow Shed (S.R. 210)

Note: Proposed Condition simulation not included for this KOP.

Form 8400 - 4
(September 1985)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date November 13, 2020

District N/A

Resource Area N/A

Activity (program) N/A

SECTION A. PROJECT INFORMATION

1. Project Name: Little Cottonwood Canyon Wasatch Blvd to Alta Transportation Improvements

2. Key Observation Point: 13 – Third Snow Shed (S.R. 210) (Cog Rail Alternative)

3. VRM Class N/A

4. Location
See figure in EIS section

5. Location Sketch
See figure in EIS section

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Enclosed, rugged canyon faces and ridgelines; scree slopes	Distinct, conical evergreens; shrubby, dense deciduous trees; moderate-height shrubs and low grasses	Flat, smooth road
LINE	Broken, irregular, inconsistent lines along canyon ridges	Distinct transition between bare roadway and vertical scraggly aspens and evergreens; lines created by variation in vegetation	Sinuous, curvilinear road
COLOR	Light tan to light gray soil; soft gray granite cliffside and loose rock near roadside	Vibrant yellowish-green to lime green to dark, muted green; isolated gray to dark brown of wood material	Muted dark gray of roadway surface
TEX-TURE	Ridged, inconsistent, coarse cliffs; broken, cobbled sandy roadside	Consistent, dense vegetation; gradational pattern based on vegetation height	Smooth and consistent roadway

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Horizontal, tapered transition into slope of snow chute	Low, indistinct grasses and shrubs	Geometric rectangle, rigid, defined, bold/dark opening; linear, thin, parallel rail tracks and rectangular railbed
LINE	Subtle line created between snow shed and earth	Line between vegetation type and height; soft, undulating lines	Angular, sloping, continuous line length of snow shed wall, perpendicular intersection lines of snow shed opening ; parallel, continuous lines of rail tracks and railbed
COLOR	Dark brown to light gray exposed soil	Yellow green vegetation; seasonal variety assumed based on revegetation	Light muted gray of concrete snow shed; dark brown to black tones of rail tracks and ballast
TEX-TURE	Smooth, consistent, and feathered to existing slope	Subtle change to low vegetation and decreased density	Soft face; rigid and abrupt edges of snow shed opening; fine, continuous, and directional of rail tracks, railbed, and concrete barrier

SECTION D. CONTRAST RATING ☐ SHORT TERM X LONG TERM

1. DEGREE OF CONSTRAST

		FEATURES											
		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None
ELEMENTS	Form		X				X			X			
	Line		X				X			X			
	Color		X				X			X			
	Texture		X				X			X			

2. Does project design meet visual resource management objectives? ☐ Yes ☐ No (Explain on reverse side) N/A

3. Additional mitigating measures recommended? ☐ Yes ☐ No (Explain on reverse side)
TBD

Evaluator's Names — Date
Laren Cyphers/ Chris Bockey 11/13/2020

Comments from item 2.
N/A

Additional Mitigating Measures (See item 3)

To be developed based on further design information.

U.S. GOVERNMENT PRINTING OFFICE: 1985-461-988/33094

KOP 15 – Existing Condition – Red Pine Trail Mid

KOP 15 – Proposed Condition – Red Pine Trail Mid (Cog Rail Alternative)

Form 8400 - 4
(September 1985)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date November 13, 2020

District N/A

Resource Area N/A

Activity (program) N/A

SECTION A. PROJECT INFORMATION

1. Project Name: Little Cottonwood Canyon Wasatch Blvd to Alta Transportation Improvements

2. Key Observation Point: 15 - Red Pine Trail Mid (Cog Rail Alternative)

3. VRM Class N/A

4. Location
See figure in EIS section

5. Location Sketch
See figure in EIS section

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Bold, trapezoidal, prominent canyon walls that create an enclosed bowl setting; ridges/spines descending canyon walls	Vertical, conical evergreens transition to low grasses and shrubs	Flat, smooth road
LINE	Horizontal, undulating horizon; directional drainages and snow chutes; U-shape created by canyon walls on either edge of the viewshed	Amorphic lines between vegetation type; distinct lines between dense vegetation and exposed rock	Sinuous, curvilinear road
COLOR	Light brown to tan soils; gray to grayish-white exposed rocks	Dark green evergreens; light green to lime green shrubs and grasses	Muted dark gray of roadway surface
TEX-TURE	Variety of exposed rock outcrops intermixed with inconsistent ridges across canyon walls	Feathered, bristly, transitional areas of smaller vegetation to taller vegetation	Smooth and consistent roadway

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Flat, tapered transition of disturbance area to toe of slope	Low to nonexistent in areas of disturbance	Linear, parallel, rectangular rail tracks; thin, sinuous concrete barrier
LINE	Distinctive and directional in areas of disturbance	Abrupt and definitive at transitions of soil and vegetation changes	Distinctive, parallel, continuous lines of rail track beds; linear and continuous of concrete barrier
COLOR	Light brown to gray of disturbed soils	Light golden to gray green of new vegetation (grasses and low shrubs)	Light gray of rail track beds and barrier concrete
TEX-TURE	Directional, consistent; overall smooth in areas of disturbance	Smooth to patchy in areas of disturbance; abrupt at soil and vegetation transitions	Fine, continuous, and directional rail track beds and concrete barrier

SECTION D. CONTRAST RATING ☐ SHORT TERM X LONG TERM

1. DEGREE OF CONSTRAST

		FEATURES											
		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None
ELEMENTS	Form		X					X			X		
	Line		X				X				X		
	Color		X					X			X		
	Texture			X				X			x		

2. Does project design meet visual resource management objectives? ☐ Yes ☐ No (Explain on reverse side) N/A

3. Additional mitigating measures recommended? ☐ Yes ☐ No (Explain on reverse side)
TBD

Evaluator's Names — Date
Laren Cyphers/ Chris Bockey 11/12/2020

Comments from item 2.

N/A

Additional Mitigating Measures (See item 3)

To be developed based on further design information.

U.S. GOVERNMENT PRINTING OFFICE: 1985-461-988/33094

KOP 16 – Existing Condition – White Pine Trailhead

Note: Proposed Condition simulation not included for this KOP.

Form 8400 - 4
(September 1985)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date November 13, 2020

District N/A

Resource Area N/A

Activity (program) N/A

SECTION A. PROJECT INFORMATION

1. Project Name: Little Cottonwood Canyon Wasatch Blvd to Alta Transportation Improvements

2. Key Observation Point: 16 - White Pine Trailhead (Cog Rail Alternative)

3. VRM Class N/A

4. Location
See figure in EIS section

5. Location Sketch
See figure in EIS section

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Broken, horizontal ridgeline to north and smoother ridgeline to southeast; concave valley with high walls; angular, upright rock features; flatter valley bottom	Conical evergreens; feathered, scraggly aspens, low grasses, medium indistinct shrubs; amorphic shapes between vegetation transitions	Flat, horizontal road; geometric signage
LINE	Undulating, sometimes broken ridgeline of canyon walls mostly obstructed by inferior viewpoint and vegetation	Amorphic, indistinct, soft, and transitional; differences driven by color and height	Horizontal, continuous road
COLOR	Muted gray exposed rock; light tan to grayish soils	Lime green grasses and shrubs; dark yellow green conifers; yellowish-green aspens; gray, brown dead wood material	Dark gray asphalt; yellow signage
TEX-TURE	Rugged, rocky, rigid; some smooth transition to lower elevations with less exposed rock	Bristly, fairly consistent, gradational pattern, based on vegetation height	Smooth, continuous road

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Flat, tapered transition of disturbance area to toe of slope; angular, cut slope	Low to nonexistent in areas of disturbance	Linear, thin, parallel rail tracks and geometric rail bed; geometric form of concrete barrier
LINE	Distinctive and directional in areas of disturbance	Abrupt and definitive at transitions of soil and vegetation changes	Parallel, continuous lines of rail tracks and railbed; linear and continuous concrete barrier
COLOR	Light brown to gray of disturbed soils	Light golden to gray green of new vegetation (grasses and low shrubs)	Dark brown to black tones of rail tracks and ballast, light gray of railbed and barrier concrete
TEX-TURE	Directional, consistent; overall smooth in areas of disturbance	Smooth to patchy in areas of disturbance; abrupt at soil and vegetation transitions	Fine, smooth, continuous, and directional rail tracks, railbed, and concrete barrier

SECTION D. CONTRAST RATING ☐ SHORT TERM X LONG TERM

1. DEGREE OF CONSTRAST		FEATURES											
		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None
ELEMENTS	Form	X					X			X			
	Line	X					X			X			
	Color		X					X			X		
	Texture		X					X		X			

2. Does project design meet visual resource management objectives? ☐ Yes ☐ No (Explain on reverse side) N/A

3. Additional mitigating measures recommended? ☐ Yes ☐ No (Explain on reverse side)
TBD

Evaluator's Names — Date
Laren Cyphers/ Chris Bockey 11/13/2020

SECTION D. (Continued)

Comments from item 2.

N/A

Additional Mitigating Measures (See item 3)

To be developed based on further design information.

U.S. GOVERNMENT PRINTING OFFICE: 1985-461-988/33094

KOP 17 – Existing Condition – White Pine Lake Trail

Note: Proposed Condition simulation not included for this KOP.

Form 8400 - 4
(September 1985)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date November 13, 2020

District N/A

Resource Area N/A

Activity (program) N/A

SECTION A. PROJECT INFORMATION

1. Project Name: Little Cottonwood Canyon Wasatch Blvd to Alta Transportation Improvements

2. Key Observation Point 17 - White Pine Lake Trail (Cog Rail Alternative)

3. VRM Class N/A

4. Location
See figure in EIS section

5. Location Sketch
See figure in EIS section

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Bold, trapezoidal, prominent cliff faces with spined slopes; distinct scree slopes; upright, broken exposed rock faces	Vertical, conical evergreens; tall, skinny aspens; predominately indistinct grasses and moderate-height shrubs in foreground	No structures visible.
LINE	Horizontal, undulating horizon; directional drainages along slope faces	Directional lines along drainages; distinct, irregular lines of vegetation groupings	No structures visible.
COLOR	Light brown to grayish soils; gray to pale yellow exposed rock and scree fields	Dark green evergreens; light green to yellowish-green of aspens, shrubs, and grasses	No structures visible.
TEX-TURE	Variety of exposed rocky outcrops and broken rock faces; irregular, rugged, ridged spines across mountain	Transitional areas of tall, feathery evergreens to low indistinct shrubs and grasses in the background; dense, consistent vegetation in the foreground	No structures visible.

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Flat, tapered transition of disturbance area to existing roadway	Low to nonexistent in areas of disturbance	Broken, linear, parallel, rectangular rail tracks
LINE	Indistinctive but directional in areas of disturbance	Abrupt and definitive at transitions of soil and vegetation changes	Parallel lines of rail track beds and barriers
COLOR	Light brown to gray of disturbed soils	Light golden to gray green of new vegetation (grasses and low shrubs)	Light gray of rail track beds and barrier concrete
TEX-TURE	Directional, consistent; overall smooth in areas of disturbance	Smooth to patchy in areas of disturbance; abrupt at soil and vegetation transitions	Fine, broken, and directional rail track beds and concrete barrier

SECTION D. CONTRAST RATING ☐ SHORT TERM ☐ LONG TERM

1. DEGREE OF CONSTRAST

		FEATURES											
		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None
ELEMENTS	Form		X					X			X		
	Line		X				X				X		
	Color		X					X			X		
	Texture			X				X			X		

2. Does project design meet visual resource management objectives? ☐ Yes ☐ No (Explain on reverse side) N/A

3. Additional mitigating measures recommended? ☐ Yes ☐ No (Explain on reverse side)
TBD

Evaluator's Names — Date
Laren Cyphers/ Chris Bockey 11/13/2020

Comments from item 2.
N/A

Additional Mitigating Measures (See item 3)

To be developed based on further design information.

U.S. GOVERNMENT PRINTING OFFICE: 1985-461-988/33094

KOP 18 – Existing Condition – Snowbird Entry 1

KOP 18 – Proposed Condition – Snowbird Entry 1 (Cog Rail Alternative)

Form 8400 - 4
(September 1985)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date November 13, 2020

District N/A

Resource Area N/A

Activity (program) N/A

SECTION A. PROJECT INFORMATION

1. Project Name: Little Cottonwood Canyon Wasatch Blvd to Alta Transportation Improvements

2. Key Observation Point: 18 - Snowbird Entry 1 (Cog Rail Alternative)

3. VRM Class N/A

4. Location
See figure in EIS section

5. Location Sketch
See figure in EIS section

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Broken, rugged cliff faces; concave valley with high walls; angular, upright rock features	Conical evergreens; feathered aspens, low grasses, medium indistinct shrubs; amorphic shapes between vegetation transitions	Angular, geometric structures; linear, cylindrical tube; flat, horizontal road; geometric signage; tall, vertical, insistent lift towers
LINE	Converging angular lines that create a focal point; undulating, broken ridgeline of canyon walls; angular striations; directional, incised drainages	Amorphic, indistinct, soft, and transitional; differences driven by color	Horizontal, rigid, definite; continuous, horizontal conveyor tube; flowing road
COLOR	Beige to muted gray exposed rock; light tan to rust soils; gold banding	Lime green grasses and shrubs; dark yellow green conifers; gray brown dead wood material	Light gray concrete; black windows; reflective, shiny tube, blues of tube and resort sign; muted gray lift towers
TEX-TURE	Rugged, rocky, rigid; some smooth transition to lower elevations with less exposed rock	Bristly, fairly consistent, gradational pattern, based on vegetation height	Smooth with defined edges; continuous, smooth tube; continuous, repetitive towers; smooth, continuous road

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Flat, tapered transition of disturbance area to toe of slope	Low to nonexistent in areas of disturbance	Linear, thin, parallel rail tracks and rectangular railbed; geometric form of concrete barrier
LINE	Distinctive and directional in areas of disturbance	Abrupt and definitive at transitions of soil and vegetation changes	Parallel, continuous lines of rail tracks and railbed; linear and continuous of concrete barrier
COLOR	Light brown to gray of disturbed soils	Light golden to gray green of new vegetation (grasses and low shrubs)	Dark brown to black tones of rail tracks and ballast; light gray of railbed and barrier concrete
TEX-TURE	Directional, consistent; overall smooth in areas of disturbance	Smooth to patchy in areas of disturbance; abrupt at soil and vegetation transitions	Fine, continuous, and directional rail tracks, railbed, and concrete barrier

SECTION D. CONTRAST RATING ☐ SHORT TERM X LONG TERM

1. DEGREE OF CONSTRAST		FEATURES											
		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None
ELEMENTS	Form		X				X				X		
	Line		X				X				X		
	Color		X					X			X		
	Texture		X					X			X		

2. Does project design meet visual resource management objectives? ☐ Yes ☐ No (Explain on reverse side) N/A

3. Additional mitigating measures recommended? ☐ Yes ☐ No (Explain on reverse side)
TBD

Evaluator's Names — Date
Laren Cyphers/ Chris Bockey 11/13/2020

Comments from item 2.
N/A

Additional Mitigating Measures (See item 3)

To be developed based on further design information.

U.S. GOVERNMENT PRINTING OFFICE: 1985-461-988/33094

KOP 19 – Existing Condition – Catherine’s Pass

Note: Proposed Condition simulation not included for this KOP.

Form 8400 - 4
(September 1985)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date November 13, 2020

District N/A

Resource Area N/A

Activity (program) N/A

SECTION A. PROJECT INFORMATION

1. Project Name: Little Cottonwood Canyon Wasatch Blvd to Alta Transportation Improvements

2. Key Observation Point: 19 - Catherine's Pass (Cog Rail Alternative)

:3. VRM Class N/A

4. Location
See figure in EIS section

5. Location Sketch
See figure in EIS section

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Bold, trapezoidal, angular, prominent mountains; enclosed bowl setting	Vertical, conical evergreens; tall, skinny, light aspens; low, indistinct grasses and shrubs	Bold, geometric forms of base lodges and facilities; geometric residential structures; bold horizontal and vertical distinct lines; distinct curved, smooth asphalt road
LINE	Horizontal, undulating horizon; directional drainages along slope faces; sinuous, flowing roads	Directional lines along drainages; broken, undulating, amorphic lines between vegetation patterns and vegetation types	Horizontal and vertical bold lines that converge
COLOR	Light brown to tan soils; gray to pale yellowish-white exposed rocks; exposed rust soil from mining activity	Yellowish-green to deeper green evergreens and aspens; lime green grasses; brown to dark dead or wood vegetation	Beige to dark brown matte structures; light gray–toned paved roadway
TEX-TURE	Variety of exposed rock outcrops intermixed with smooth to fine transitions	Feathered, bristly trees; transitional areas of smaller (smooth) vegetation to taller (coarse) vegetation	Angular, rigid, clustered, organized structures

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	No perceived change.	No perceived change.	No perceived change.
LINE	No perceived change.	No perceived change.	No perceived change.
COLOR	No perceived change.	No perceived change.	No perceived change.
TEX-TURE	No perceived change.	No perceived change.	No perceived change.

SECTION D. CONTRAST RATING ☐ SHORT TERM X LONG TERM

1. DEGREE OF CONSTRAST

		FEATURES											
		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None
ELEMENTS	Form				X				X				X
	Line				X				X				X
	Color				X				X				X
	Texture				X				X				X

2. Does project design meet visual resource management objectives? ☐ Yes ☐ No (Explain on reverse side) N/A

3. Additional mitigating measures recommended? ☐ Yes X No (Explain on reverse side)

Evaluator's Names Date
Laren Cyphers/ Chris Bockey 11/13/2020

Comments from item 2.
N/A

Additional Mitigating Measures (See item 3)
None recommended

U.S. GOVERNMENT PRINTING OFFICE: 1985-461-988/33094

KOP 20 – Existing Condition – La Caille Base Station

Note: Proposed Condition simulation not included for this KOP.

Form 8400 - 4
(September 1985)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date November 13, 2020

District N/A

Resource Area N/A

Activity (program) N/A

SECTION A. PROJECT INFORMATION

1. Project Name: Little Cottonwood Canyon Wasatch Blvd to Alta Transportation Improvements

2. Key Observation Point: 20 - La Caille Base Station (Cog Rail Alternative)

3. VRM Class N/A

4. Location
See figure in EIS section

5. Location Sketch
See figure in EIS section

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Rugged; sloped foothills transition to flat road that transitions to steeper slope down to flat residential area and road set below roadway	Fairly consistent mix of evergreens, deciduous, oak brush, and some indistinct shrubs and low grasses	Flat, horizontal roadway; geometric, angular forms of residential structures that line roadway; mostly obscured by vegetation; indistinct energy transmission line
LINE	Irregular, angular slopes; undulating, broken ridgeline; undulating foothills descending to flat valley	Amorphic lines of groupings; vertical evergreens in the background; mostly rounded, dense brush, shrubs, and grasses in foreground	Curvilinear roadway; horizontal and vertical lines of energy infrastructure
COLOR	Light brown to gray exposed soils intermixed with gray aggregate	Dark deep to light yellow green to yellow of most vegetation; tan dry grasses; some oak brush transitioning to red	Gray asphalt; natural wood utility poles and guardrails; gray and brown homes
TEX-TURE	Broken, soft and rounded edged cliff face in the background; smooth foothills transition to lower elevations	Consistent, carpeted, and dense forest (background) and brush (foreground)	Smooth, continuous roadway; fine cables; inconsistent residential structures

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Cut and fill would cause some distinct abrupt changes in gradation between sloped foothills to flat parking lot to steep slope down to residential structures	No perceived change.	Defined, angular, organized infrastructure with descending ramps to flat/grade road, parking lot; prominent three- to four-story geometric parking structure; flat to geometric forms of platform infrastructure
LINE	Distinct horizontal line between flat roadway and cut slopes	No perceived change.	Bold, vertical, rigid; intersecting perpendicular lines; ascending and descending lines associated with ramp contours
COLOR	Dark brown to gray exposed soils	No perceived change.	Dark gray to black asphalt; gray concrete faces of road components; light gray or earth tones of concrete parking structure
TEX-TURE	More abrupt changes in elevation and gradation	No perceived change.	Smooth, continuous roadway; angular, organized parking and platform infrastructure

SECTION D. CONTRAST RATING ☐ SHORT TERM X LONG TERM

1. DEGREE OF CONSTRAST

		FEATURES											
		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None
ELEMENTS	Form		X						X	X			
	Line		X						X	X			
	Color			X					X	X			
	Texture			X					X	X			

2. Does project design meet visual resource management objectives? ☐ Yes ☐ No (Explain on reverse side) N/A

3. Additional mitigating measures recommended? ☐ Yes ☐ No (Explain on reverse side)
TBD

Evaluator's Names Date
Laren Cyphers/ Chris Bockey 11/13/2020

Comments from item 2.

N/A

Additional Mitigating Measures (See item 3)

To be developed based on further design information.

U.S. GOVERNMENT PRINTING OFFICE: 1985-461-988/33094

KOP 21 – Existing Condition – La Caille Residential Area

Note: Proposed Condition simulation not included for this KOP.

Form 8400 - 4
(September 1985)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date November 13, 2020

District N/A

Resource Area N/A

Activity (program) N/A

SECTION A. PROJECT INFORMATION

1. Project Name: Little Cottonwood Canyon Wasatch Blvd to Alta Transportation Improvements

2. Key Observation Point: 21 – La Caille Residential Area (Cog Rail Alternative)

3. VRM Class N/A

4. Location
See figure in EIS section

5. Location Sketch
See figure in EIS section

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Sloping, angular side slopes; lower, rounded foothills of residential properties that taper to roadway	Inconsistent domestic and deciduous trees; low grasses	Clustered residential development; built forms for landscaping; 69-kV transmission line in middle foreground; flat roadway for access to residences
LINE	Undulating foothills descending to flat valley	Amorphic lines created by tree groupings; distinct line between tall and short vegetation	Tall, vertical transmission line poles; horizontal, continuous thin electric lines; smooth continuous roadway surface
COLOR	Brown to dark brown exposed soils intermixed with gray aggregate	Yellowish-green to green trees; tan, gray, and brown dry grasses	Buckskin transmission line poles; light gray attached infrastructure; darker wood transmission line in distance; light gray asphalt
TEX-TURE	Soft foothill slopes; smooth, undulating, flat area	Consistent, carpeted grasses in spots; inconsistent tree groupings	Irregular residential area; linear, smooth roadway; continuous distribution line

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Cut and fill would cause distinct, abrupt changes in gradation between sloped foothills to flat parking lot to steep slope down to residential structures; foothills in background would be mostly obstructed	Vegetation clearing will result in less consistent tree groupings	Defined, angular, organized infrastructure of three- to four-story parking garage; elevated cog rail station; prominent geometric structure; upright, vertical, geometric forms
LINE	Distinct horizontal line between flat overhead parking area cut and fill slopes, and flat residential area	Distinct line between new roads and infrastructure and vegetation that remains	Bold, vertical, rigid; intersecting, perpendicular lines
COLOR	Dark brown to gray exposed soils	No perceived change.	Dark gray to black asphalt of roadway changes; light gray of concrete parking structure and cog rail station
TEX-TURE	Abrupt changes in elevation and gradation	Inconsistent, distinct tree groupings giving way to flat cleared areas	Angular, rigid parking and station infrastructure

SECTION D. CONTRAST RATING ☐ SHORT TERM X LONG TERM

1. DEGREE OF CONSTRAST

		FEATURES											
		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None
ELEMENTS	Form		X					X		X			
	Line		X					X		X			
	Color		X					X		X			
	Texture		X					X		X			

2. Does project design meet visual resource management objectives? ☐ Yes ☐ No (Explain on reverse side) N/A

3. Additional mitigating measures recommended? ☐ Yes ☐ No (Explain on reverse side)
TBD

Evaluator's Names — Date
Laren Cyphers/ Chris Bockey 11/13/2020

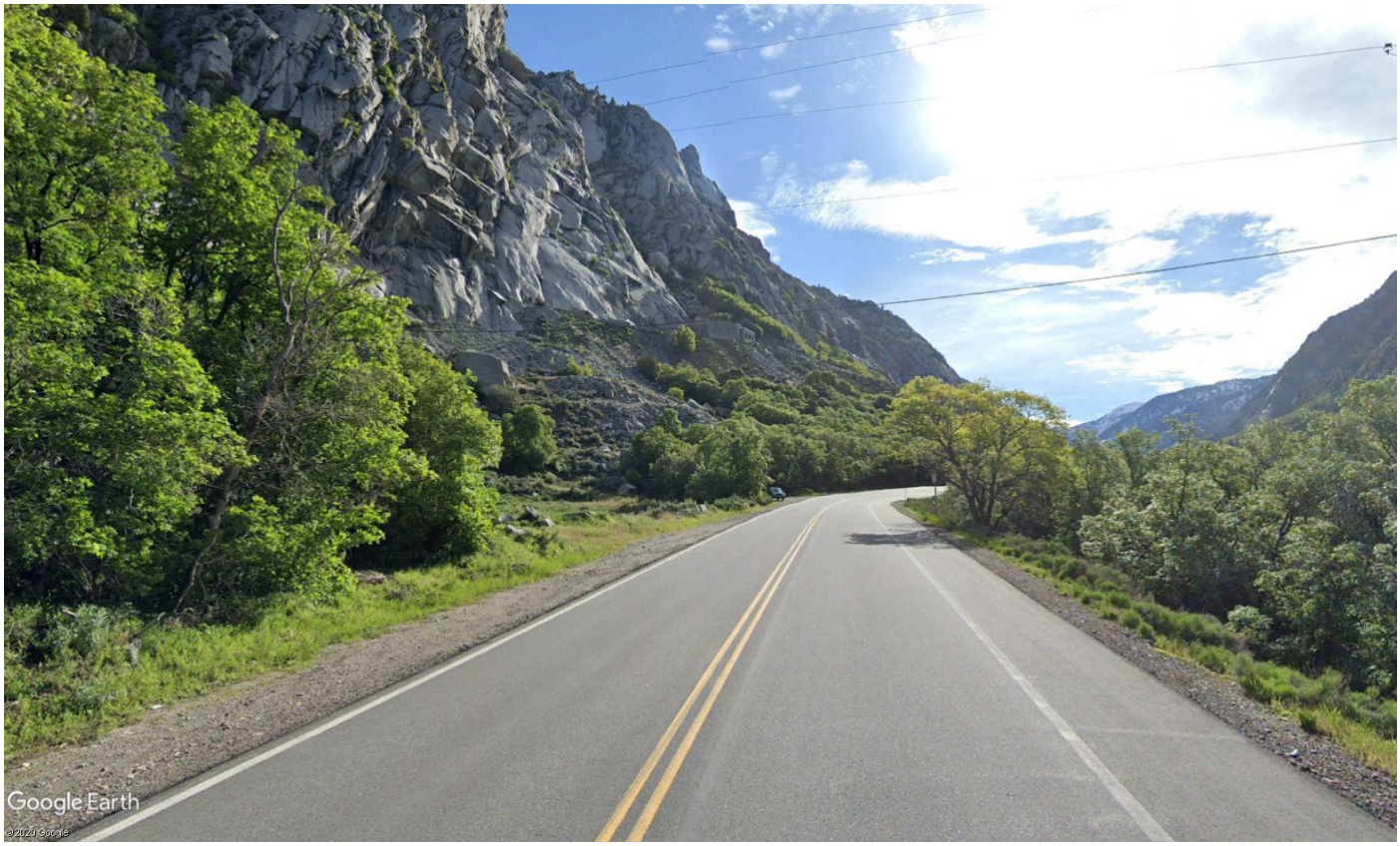
SECTION D. (Continued)

Comments from item 2.
N/A

Additional Mitigating Measures (See item 3)

To be developed based on further design information.

U.S. GOVERNMENT PRINTING OFFICE: 1985-461-988/33094



KOP 22 – Existing Condition – Grit Mill Trailhead

Note: Proposed Condition simulation not included for this KOP.

Form 8400 - 4
(September 1985)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date November 12, 2020

District N/A

Resource Area N/A

Activity (program) N/A

SECTION A. PROJECT INFORMATION

1. Project Name: Little Cottonwood Canyon Wasatch Blvd to Alta Transportation Improvements

2. Key Observation Point: 22– Grit Mill Trailhead (Cog Rail Alternative)

3. VRM Class N/A

4. Location
See figure in EIS section

5. Location Sketch
See figure in EIS section

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Rugged, broken canyon faces; rounded, irregular cliffs	Consistent, dense shrub and deciduous forest; some indistinct shrubs and low grasses	Vertical, upright distribution line poles; horizontal, thin transmission lines
LINE	Irregular and inconsistent rock bands; undulating broken ridgeline; directional breakage along cliff face	Amorphic lines created by tree groupings	Columnar, parallel, vertical poles; horizontal, continuous lines
COLOR	Whitish-gray cliffs with dark gray to black vertical striations	Yellowish-green to dark green shrubs	Light brown to buckskin of wood transmission poles, dark gray to black of lines
TEX-TURE	Broken, soft and rounded edged cliff face that transitions to some medium boulders roadside	Consistent, carpeted, and dense forest	Ordered and isolated of transmission poles; consistent and continuous of lines

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Flat, tapered transition of disturbance area to toe of slope	Low to nonexistent in areas of disturbance	Flat, geometric form of trailhead parking area; linear, thin, parallel rail tracks and railbed; geometric pattern of highway guardrail
LINE	Distinctive and directional in areas of disturbance	Abrupt and definitive at transitions of soil and vegetation changes	Distinctive edges of parking and pedestrian areas associated with trailhead parking; maintenance facility; parallel, continuous lines of rail tracks; continuous horizontal line of guardrail
COLOR	Light brown to gray of disturbed soils	Light golden to gray green of new vegetation (grasses and low shrubs)	Dark grays of pavement; dark brown to black tones of rail tracks and ballast; dull gray of guardrail; soft concrete tones
TEX-TURE	Directional, consistent; overall smooth in areas of disturbance	Smooth to patchy in areas of disturbance; abrupt at soil and vegetation transitions	Smooth and directional parking area; fine, continuous, and directional rail tracks and guardrail

SECTION D. CONTRAST RATING ☐ SHORT TERM X LONG TERM

1. DEGREE OF CONSTRAST

		FEATURES											
		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None
ELEMENTS	Form		X					X			X		
	Line		X				X				X		
	Color			X				X				X	
	Texture			X				X				X	

2. Does project design meet visual resource management objectives? ☐ Yes ☐ No (Explain on reverse side) N/A

3. Additional mitigating measures recommended? ☐ Yes ☐ No (Explain on reverse side)
TBD

Evaluator's Names — Date
Laren Cyphers/ Chris Bockey 11/12/2020

Comments from item 2.
N/A

Additional Mitigating Measures (See item 3)

To be developed based on further design information.

U.S. GOVERNMENT PRINTING OFFICE: 1985-461-988/33094

KOP 23 – Existing Condition – Upper Canyon Snowshed at Bypass

Note: Proposed Condition simulation not included for this KOP.

Form 8400 - 4
(September 1985)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date November 13, 2020

District N/A

Resource Area N/A

Activity (program) N/A

SECTION A. PROJECT INFORMATION

1. Project Name: Little Cottonwood Canyon Wasatch Blvd to Alta Transportation Improvements

2. Key Observation Point: 23 – Upper Canyon Snowshed at Bypass (Cog Rail Alternative)

3. VRM Class N/A

4. Location
See figure in EIS section

5. Location Sketch
See figure in EIS section

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Rugged canyon faces and ridgelines; scree slopes	Distinct, conical evergreens; shrubby, dense deciduous trees; moderate-height shrubs and low grasses	Flat, smooth road; geometric, linear concrete barriers; large geometric and rectangular resort infrastructure
LINE	Broken, irregular, inconsistent lines along canyon ridges	Distinct transition between bare roadway and vertical, scraggly aspens and evergreens; lines created by variation in vegetation	Linear and continuous edges of roadway and concrete barrier; defined and rigid vertical and horizontal elements of resort infrastructure
COLOR	Light tan to light gray soil; soft gray granite cliffside and loose rock near roadside	Vibrant yellowish-green to lime green to dark, muted green; isolated gray to dark brown of wood material	Muted dark gray of roadway surface; light gray of concrete barrier; darker earth tones, browns of resort infrastructure
TEX-TURE	Ridged, inconsistent, coarse cliffs; broken, cobbled sandy roadside	Consistent, dense vegetation; gradational pattern based on vegetation height	Smooth and consistent roadway; ridged, directional concrete barrier; clustered resort infrastructure

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Horizontal tapered transition into slope of snow chute	Low, indistinct grasses and shrubs	Geometric rectangle, rigid, defined, bold/dark opening
LINE	Subtle line created between snow shed and earth	Line between vegetation type and height; soft, undulating lines	Angular, sloping, continuous line length of snow shed wall, perpendicular intersection lines of snow shed opening
COLOR	Dark brown to light gray exposed soil	Yellow green vegetation; seasonal variety assumed based on revegetation	Light muted gray of concrete snow shed
TEX-TURE	Smooth, consistent, and feathered to existing slope	Subtle change to low vegetation and decreased density	Soft face; rigid and abrupt edges of snow shed opening

SECTION D. CONTRAST RATING ☐ SHORT TERM X LONG TERM

1. DEGREE OF CONSTRAST

		FEATURES											
		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None
ELEMENTS	Form		X					X		X			
	Line		X					X		X			
	Color		X					X		X			
	Texture		X					X		X			

2. Does project design meet visual resource management objectives? ☐ Yes ☐ No (Explain on reverse side) N/A

3. Additional mitigating measures recommended? ☐ Yes ☐ No (Explain on reverse side) TBD

Evaluator's Names — Date
Laren Cyphers/ Chris Bockey 11/13/2020

Comments from item 2.
N/A

Additional Mitigating Measures (See item 3)

To be developed based on further design information.

U.S. GOVERNMENT PRINTING OFFICE: 1985-461-988/33094

KOP 24 – Existing Condition – Cog Rail Overpass

KOP 24 – Proposed Condition – Cog Rail Overpass (Cog Rail Alternative)

Form 8400 - 4
(September 1985)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date January 12, 2021

District N/A

Resource Area N/A

Activity (program) N/A

SECTION A. PROJECT INFORMATION

1. Project Name: Little Cottonwood Canyon Wasatch Blvd to Alta Transportation Improvements	4. Location See figure in EIS section	5. Location Sketch See figure in EIS section
2. Key Observation Point: 24 - Cog Rail Overpass (Cog Rail Alternative)		
3. VRM Class N/A		

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Rugged; sloped foothills transition to flat road that transitions to steeper slope down to flat residential area and road set below roadway	Fairly consistent mix of evergreens, deciduous, oak brush, and some indistinct shrubs and low grasses	Flat, horizontal roadway; geometric, angular forms of residential structures that line roadway; mostly obscured by vegetation
LINE	Irregular, angular slopes; undulating, broken ridgeline; undulating foothills descending to flat valley	Amorphic lines of groupings; vertical evergreens in the background; mostly rounded, dense brush, shrubs, and grasses in foreground	Curvilinear roadway; vertical lines in signage
COLOR	Light brown to gray exposed soils intermixed with gray aggregate	Dark deep to light yellow green to yellow of most vegetation; tan dry grasses; some oak brush transitioning to red	Gray asphalt and sign posts; gray and brown homes
TEX-TURE	Coarse textured ridges in the background; smooth foothills transition to lower elevations	Consistent, carpeted, and dense forest (background) and brush (foreground)	Smooth, continuous roadway; inconsistent residential structures

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Cut and fill would cause some distinct abrupt changes in gradation between sloped foothills to flat base station area to steep slopes down to residential structures	No perceived change.	Defined, angular, organized infrastructure; flat to geometric forms of base station infrastructure and elevated cog rail overpass
LINE	Distinct horizontal line between flat roadway and cut slopes	No perceived change.	Bold, vertical, rigid; intersecting perpendicular lines; strong horizontal line across the road from overpass
COLOR	Dark brown to gray exposed soils	No perceived change.	Dark gray to black asphalt; gray concrete faces of road components; light gray or earth tones of concrete base station structure
TEX-TURE	More abrupt changes in elevation and gradation	No perceived change.	Smooth, continuous roadway; angular, organized platform infrastructure and overpass

SECTION D. CONTRAST RATING ☐ SHORT TERM X LONG TERM

1. DEGREE OF CONSTRAST

		FEATURES											
		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None
ELEMENTS	Form		X						X	X			
	Line		X						X	X			
	Color			X					X	X			
	Texture			X					X	X			

2. Does project design meet visual resource management objectives? ☐ Yes ☐ No (Explain on reverse side) N/A

3. Additional mitigating measures recommended? ☐ Yes ☐ No (Explain on reverse side)
TBD

Evaluator's Names — Date
Laren Cyphers/ Kevin Rauhe 1/12/2021

Comments from item 2.

N/A

Additional Mitigating Measures (See item 3)

To be developed based on further design information.

U.S. GOVERNMENT PRINTING OFFICE: 1985-461-988/33094