GRADING, EROSION, AND SEDIMENT CONTROL REPORT RIDGEGATE EAST FILING NO. 4

October 2023

Prepared for:

Rampart Range Metropolitan District No. 5 8390 East Crescent Parkway, Suite 300 Greenwood Village, Colorado 80111 303-779-4525

Contact: Denise Denslow

Prepared by:



5970 Greenwood Village Plaza Boulevard Greenwood Village, Colorado 80111 303-751-0741

Contact: Carson Besgrove, PE

Merrick Project No. 65121240

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Appendix A – Opinion of Probable Costs

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LONE TREE PERMITTEES SIGNATURE PAGE

This Grading, Erosion and Sediment Control (GESC) Report included herein has been prepared under my
direct supervision in accordance with the requirements of the Grading, Erosion and Sediment Control
Criteria Manual, as amended.

Carson Besgrove, P.E.
Colorado Registered Professional
Engineer No. 44849
For and on Behalf of Merrick & Company

Rampart Range Metropolitan District No. 5 hereby certifies that the grading, erosion, and sediment control facilities for this project shall be constructed according to the design presented in this report. I understand that the City of Lone Tree does not and will not assume liability for the grading, erosion and sediment control facilities designed and/or certified by my engineer and that the City of Lone Tree reviews GESC plans; but cannot, on behalf of this project, guarantee that final review will absolve Rampart Range Metropolitan District No. 5 and/or their successors and/or assigns of future liability for improper design.

Rampart Range Metropolitan District No. 5
Authorized Signature

Note:

The Grading, Erosion and Sediment Control Plan included herein has been placed in the City of Lone Tree file for this project and appears to fulfill applicable City of Lone Tree Grading, Erosion and Sediment Control criteria, as amended. Additional grading, erosion and sediment control measures may be required of the permittee(s) due to unforeseen erosion problems or if the submitted GESC Plan does not function as intended. The requirements of the GESC Plan shall run with the land and be the obligation of the permittee(s) until such time as the GESC Plan is properly completed, modified, or voided.

PROJECT DESCRIPTION

The Rampart Range Metropolitan District No. 5 (RRMD) is proposing to construct roadway and utility improvements within the City of Lone Tree to support the RidgeGate Development.

This project encompasses portions of Road C, turn lane construction on eastbound and westbound Ridgegate Parkway, and the supporting utilities. The entire 18.0-acre site will be permanently stabilized.

The majority of the site is located in Section 24 Township 6 South, Range 67 West of the Sixth Principal Meridian in the City of Lone Tree, County of Douglas, State of Colorado. Figure 1 below shows the location of the project site.

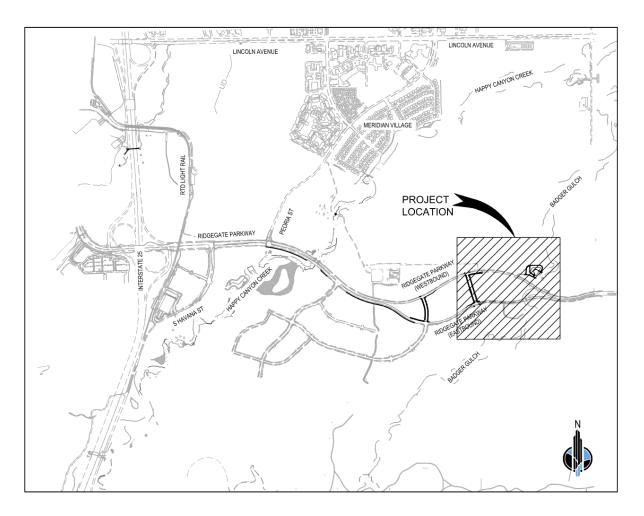


Figure 1 - Vicinity Map (Not to scale)

EXISTING SITE CONDITIONS

The site is bordered by Ridgegate Parkway to the north, south and East, and Rhapsody Road to the west.

The project site is primarily undeveloped. The ground cover consists of a mixture of short native grasses and occasional forbs. The majority of the site drains to Badger Gulch which is an existing creek east of the site.

The site crosses a designated floodplain as shown in FIRM Map No. 0803190064J, effective September 4, 2020. See Appendix B for FIRM Map.

ADJACENT AREAS

The site is bounded on the north, south, and east by Ridgegate Parkway, and on the west by Rhapsody Road.

SOILS

The predominant soil series for the site are:

- "FoB" Fondis clay loam, 1 to 3 percent slopes, HSG C
- "Ma" Manzanola clay loam, HSG C
- "NeE" Newlin gravelly sandy loam, 8 to 30 percent slopes, HSG B
- "RmE" Renohill-Buick complex, 5 to 25 percent slopes, HSG D

These soils have a hydrologic soil group classification of C and D.

AREAS AND VOLUMES

A total area of 7.0-acres is defined by the limits of construction (LOC). There is grading associated with construction of road, walking paths, and ADA ramps. The earthwork volume for the site consists of approximately 875 cubic yards (CY) of cut and 7,023 CY of fill resulting in a net of 6,148 CY of fill for the site.

EROSION AND SEDIMENT CONTROL MEASURES

Prior to commencement of construction activities, silt fence (SF) will be erected around the boundary of the project site defined by the LOC. Access to the project will be through a proposed vehicle tracking control (VTC) pad and trackout mat as shown on the GESC Plan. The contractor will install a stabilized staging area (SSA) to fully contain parking, storage, and unloading and loading operations. A concrete wash area (CWA) will also be installed at the staging area. Prior to construction the topsoil will be stripped and stockpiled. Inlet protection (IP) will be placed on downstream inlets adjacent to the project.

The contractor will be responsible for maintaining and replacing erosion control best management practices (BMPs) as necessary to provide erosion and sediment control protection.

At completion of construction, the VTC, CF, DW, IP, CWA, SSA, SCL, CS, SF, and CM will be removed. All disturbed areas where permanent landscaping is not provided will be reseeded as soon as possible with a seeding and mulching (SM) mix. SF will be left in place until seeding has been established and approved by the City of Lone Tree.

STORMWATER MANAGEMENT CONSIDERATIONS

Limited stormwater impacts are anticipated from this project. Runoff will generally maintain the natural drainage patterns to the existing water quality pond which drains to Badger Gulch, which ultimately flows northeasterly towards Lincoln Avenue.

MAINTENANCE

The construction, erosion, and sediment control measures shall be inspected by the contractor on a weekly basis during construction. Erosion and sediment control measures shall be inspected after every rain event as required by City of Lone Tree regulations. The standard notes and details in the *Grading*, *Erosion*, *and Sediment Control Plan* shall be followed.

TIMING/PHASING SCHEDULE

The proposed construction schedule for this project is:

- Install initial BMPs April 2024
- Begin grading and install interim BMPs May 2024
- Complete grading, remove initial and interim BMPs, and install final BMPs December 2024 The proposed construction is estimated to take 240 days.

OPINION OF PROBABLE COST

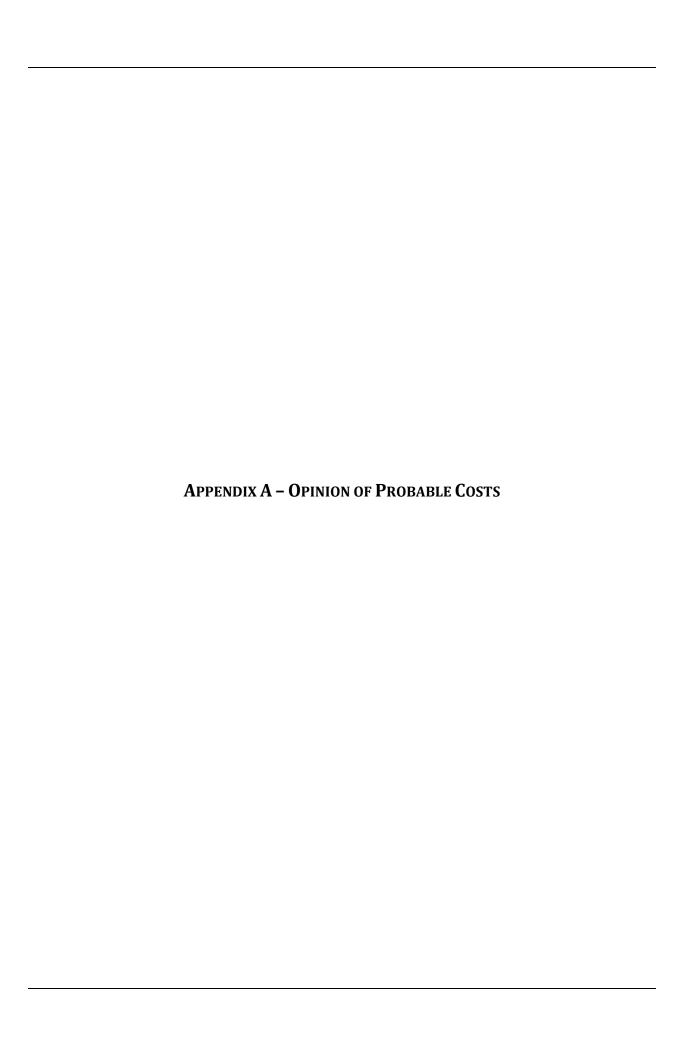
The opinion of probable cost for the erosion and sediment control measures within City of Lone Tree is \$36,343.22. A detailed cost estimate for erosion and sediment control is provided in Appendix A. Construction costs are not included in the cost opinion.

CALCULATIONS

No calculations were performed to create this plan set.

REFERENCES

- 1. Federal Emergency Management Agency Flood Insurance Rate Maps, Community-Panel Number 08035C0063H, effective September 4, 2020.
- 2. Grading, Erosion and Sediment Control Manual, Douglas County, Colorado, Department of Public Works, http://www.douglas.co.us/publicworks/engineering/ documents/DouglasCounty_GESC_Manual_March_20_2004.pdf, November 2006.
- 3. National Cooperative Soil Survey for Castle Rock, Colorado, USDA, Web Soil Survey 1.1 [online], Accessed August 2016.

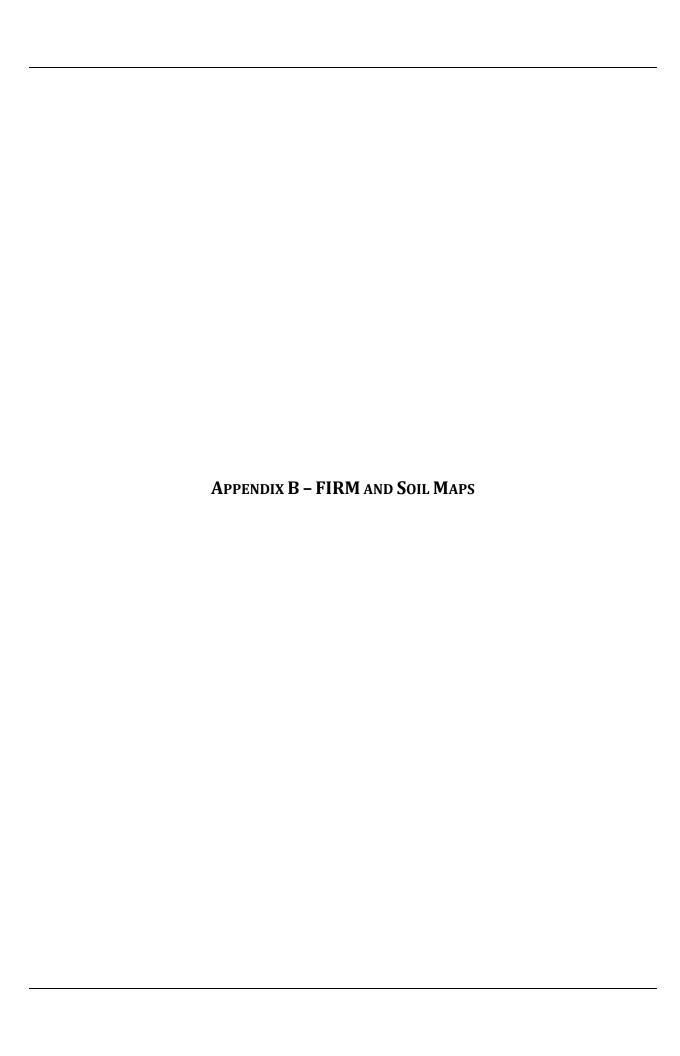


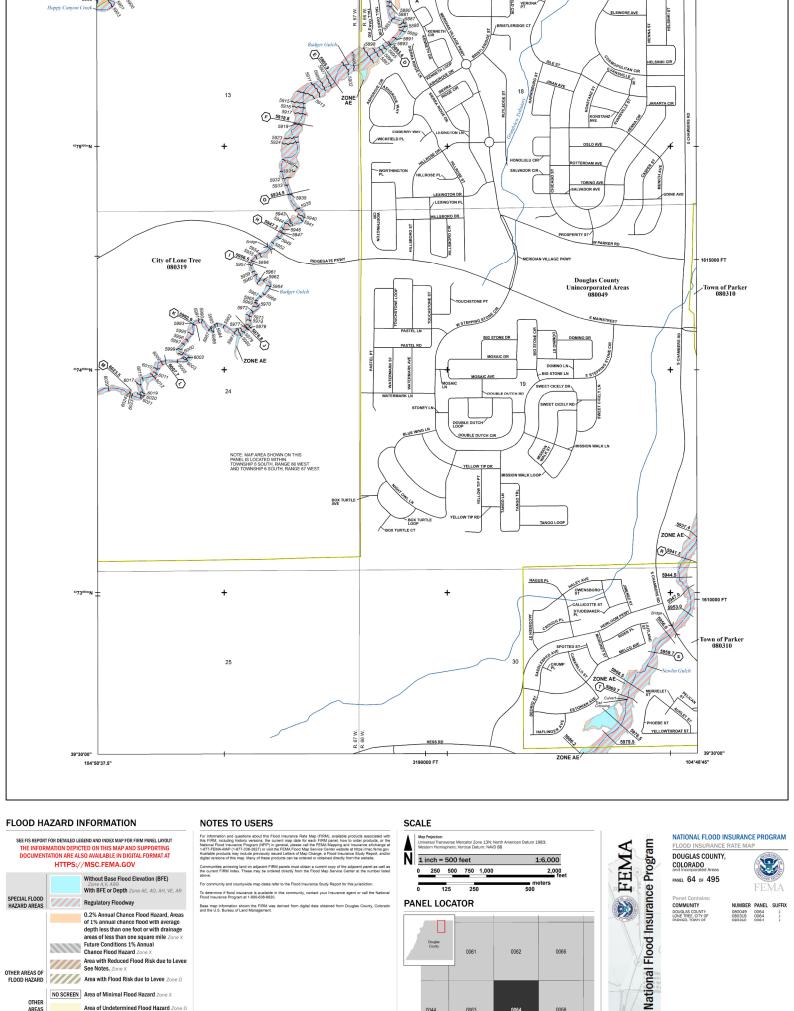


GESC Permit Opinion of Probable Cost

Project: RidgeGate Filing No. 4 Date: June 30, 2023

BMP No.	ВМР	ID	Unit		stallation Init Cost	Quantity	Cost
1	Check Dam	CD	LF	\$	24.00		\$ -
2	Compost Blanket	СВ	SF		\$0.36		\$ -
3	Compost Filter Berm	CFB	LF	\$	2.00		\$ -
4	Concrete Washout Area	CWA	EA	\$	100.00	1	\$ 100.00
5	Construction Fence	CF	LF	\$	2.00		\$ -
6	Construction Markers	СМ	LF	\$	0.20	1,494	\$ 298.80
7	Curb Sock	CS	LF	\$	8.00		\$ -
8	Dewatering	DW	EA	\$	600.00		\$ -
9	Diversion Ditch	DD	LF	\$	1.60		\$ -
10	Erosion Control Blanket	ECB	SY	\$	5.00	2,992	\$ 14,960.00
11	Inlet Protection	ΙP	LF	\$	20.00	306	\$ 6,120.00
12	Reinforced Check Dam	RCD	LF	\$	36.00		\$ -
13	Reinforced Rock Berm	RRB	LF	\$	9.00		\$ -
14	RRB for Culvert Protection	RRC	LF	\$	9.00		\$ -
15	Sediment Basin	SB	AC (1)		(2)		\$ -
16	Sediment Control Log	SCL	LF	\$	2.00		\$ -
17	Sediment Trap	ST	EA	\$	600.00		\$ -
18A	Seeding and Mulching - Mobilization	SM	EA	\$	1,000.00	1	\$ 1,000.00
18B	Seeding and Mulching - Installation	SM	AC	\$	750.00	4.5	\$ 3,390.00
19	Silt Fence	SF	LF	\$	2.00	910	\$ 1,820.00
20	Stabilized Staging Area	SSA	SY	\$	2.00	1,457	\$ 2,914.00
21	Surface Roughening	SR	AC	\$	600.00		\$ -
22	Temporary Slope Drain	TSD	LF	\$	30.00		\$ -
23	Temporary Stream Crossing	TSC	EA	\$	1,000.00		\$ -
24	Terracing	TER	AC	\$	600.00		\$ -
25	Vehicle Tracking Control	VTC	EA	\$	1,000.00	1	\$ 1,000.00
26	VTC with Wheel Wash WW EA \$ 1,500.00						\$ -
27	Temporary Batch Plant Restoration		AC	\$	5,000.00		\$
	(1) Upstream Tributary Acre				SUB-T	OTAL	\$ 31,602.80
	(2) SB Cost = \$1000 +\$200(Upstream Tribu	ıtary Acre	s)		15% CONT	TINGENCY	\$ 4,740.42
			G	SES	C SURET	Y TOTAL (1)	\$ 36,343.22



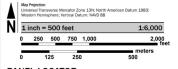


Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X Future Conditions 1% Annual Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee See Notes. Zone X OTHER AREAS OF FLOOD HAZARD Area with Flood Risk due to Levee Zone D NO SCREEN Area of Minimal Flood Hazard Zone X Area of Undetermined Flood Hazard Zone D Channel, Culvert, or Storm Sewer GENERAL STRUCTURES Levee, Dike, or Floodwall 18.2 Cross Sections with 1% Annual Chance (E)-

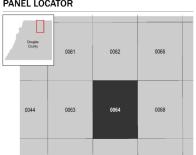
Water Surface Flevation

To determine if flood insurance is available in this community, contact your Insurance agent or call the Flood insurance Program at 1-800-638-6620.

Base map information shown the FIRM was der and the U.S. Bureau of Land Management.



PANEL LOCATOR

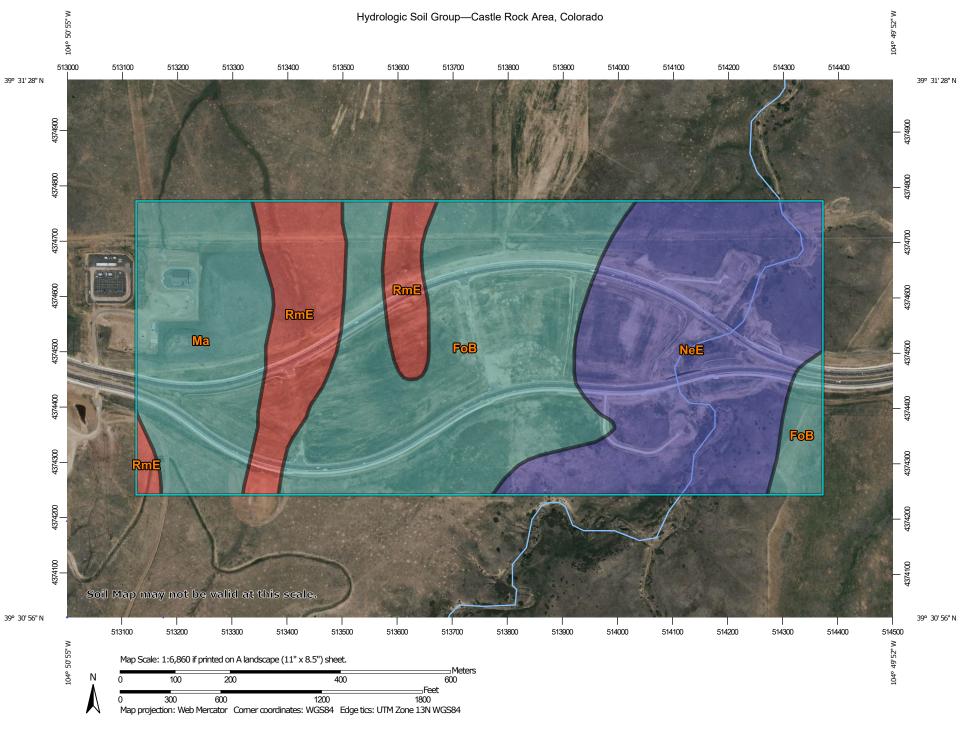


PANEL 64 OF 495

DOUGLAS COUNTY LONE TREE, CITY OF PARKER, TOWN OF







MAP LEGEND MAP INFORMATION The soil surveys that comprise your AOI were mapped at Area of Interest (AOI) С 1:20.000. Area of Interest (AOI) C/D Soils Warning: Soil Map may not be valid at this scale. D Soil Rating Polygons Enlargement of maps beyond the scale of mapping can cause Not rated or not available Α misunderstanding of the detail of mapping and accuracy of soil **Water Features** line placement. The maps do not show the small areas of A/D contrasting soils that could have been shown at a more detailed Streams and Canals Transportation B/D Rails ---Please rely on the bar scale on each map sheet for map measurements. Interstate Highways C/D Source of Map: Natural Resources Conservation Service **US Routes** Web Soil Survey URL: D Major Roads Coordinate System: Web Mercator (EPSG:3857) Not rated or not available -Local Roads Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts Soil Rating Lines Background distance and area. A projection that preserves area, such as the Aerial Photography Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required. This product is generated from the USDA-NRCS certified data as of the version date(s) listed below. Soil Survey Area: Castle Rock Area, Colorado Survey Area Data: Version 14, Aug 31, 2021 Soil map units are labeled (as space allows) for map scales 1:50.000 or larger. Not rated or not available Date(s) aerial images were photographed: Jun 9, 2021—Jun 12. 2021 **Soil Rating Points** The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background A/D imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident. B/D

Hydrologic Soil Group

	,			
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
FoB	Fondis clay loam, 1 to 3 percent slopes	С	60.6	36.8%
Ма	Manzanola clay loam	С	28.8	17.5%
NeE	Newlin gravelly sandy loam, 8 to 30 percent slopes	В	53.3	32.4%
RmE	Renohill-Buick complex, 5 to 25 percent slopes	D	21.9	13.3%
Totals for Area of Intere	est	164.5	100.0%	

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition
Component Percent Cutoff: None Specified

Tie-break Rule: Higher





Project: RIDGEGATE EAST FILING NO. 4				Date: 6/28/2023	
All I	Plan She	eets			
Yes X	No 🗆	N/A 🗌	1.	Title Block (consistent on all sh	eets)
Yes X	No 🗌	N/A 🗌	2.	Legal Name (Subdivision Name	e and Filing Number)
Yes X	No 🗌	N/A 🗌	3.	Sheet Number	
Yes X	No 🗌	N/A 🗌	4.	Graphic and Written Scale	
Yes X	 No □	N/A 🗌	5.	North Arrow	
Yes X	No □	N/A 🗌	6.	Current Date of Plan Preparation	on
Yes X	No □	N/A 🗌	7.	City Acceptance Block (availab	le upon request)
	ver She				
Yes X	No 🗌	N/A 🗌	1.	Project name	
Yes X	No 🗌	N/A 🗌	2.	Project address	
Yes X	No 🗌	N/A 🗌	3.	Owner (and Applicant's if different	,
Yes 🔀	No 🗌	N/A 🗌	4.	Design firm's name and address	S
Yes X	No 🗌	N/A 🗌	5.	Plan sheet index	
Yes 🔀	No 🗌	N/A 🗌	6.	Original date of preparation and	subsequent revisions
Yes 🔀	No 🗌	N/A 🗌	7.	The following note:	
				INCLUDED HEREIN HAS LONE TREE FILE FOR T FULFILL APPLICABLE LO SEDIMENT CONTROL C GRADING, EROSION AN MAY BE REQUIRED OF UNFORESEEN EROSIOI PLAN DOES NOT FUNC REQUIREMENTS OF TH AND BE THE OBLIGATIO	ON AND SEDIMENT CONTROL PLAN S BEEN PLACED IN THE CITY OF HIS PROJECT AND APPEARS TO ONE TREE GRADING, EROSION AND RITERIA, AS AMENDED. ADDITIONAL ID SEDIMENT CONTROL MEASURES THE PERMITTEES DUE TO N PROBLEMS OR IF THE SUBMITTED TION AS INTENDED. THE IS PLAN SHALL RUN WITH THE LAND ON OF THE PERMITTEES, UNTIL AN IS PROPERLY COMPLETED,
Yes 🔀	No 🗌	N/A 🗌	8.	GESC Plan Designer's signature Professional Engineer registration the following note:	e block with name, date, and on number. Signature block shall include
				INCLUDED HEREIN HAS DIRECT SUPERVISION I REQUIREMENTS OF TH	ON AND SEDIMENT CONTROL PLAN SEEN PREPARED UNDER MY IN ACCORDANCE WITH THE E GRADING, EROSION, AND GESC) CRITERIA MANUAL OF AMENDED.
Yes 🔀	No 🗌	N/A 🗌	9.	General Location Map (at a reas	sonable scale) indicating:
				a. general vicinity of the sib. major roadway namesc. north arrow and scale	te location

CITY OF LONE TREE GESC PLAN AND REPORT CHECKLIST

GESC Drawing Index Sheet (if applicable)

For projects that require multiple plan-view sheets to adequately show the project area (based on the specified scale ranges), a single plan-view sheet shall be provided at a scale appropriate to show the entire site on one sheet. Areas of coverage of the multiple blow-up sheets are to be indicated as rectangles on the index sheet.

Initia	I GESC	Plan		
Yes 🔀	No 🗌	N/A 🗌	1.	Property Lines
Yes 🔀	No 🗌	N/A 🗌	2.	Existing and proposed easements
Yes 🔀	No 🗌	N/A 🗌	3.	Existing topography at one- or two-foot contour intervals, extending a minimum of 100 feet beyond the property line
Yes 🔀	No 🗌	N/A 🗌	4.	Location of any existing structures or hydrologic features within the mapping limits
Yes 🔀	No 🗌	N/A 🗌	5.	USGS Benchmark used for project
Yes 🔀	No 🗌	N/A 🗌	6.	Limits of construction encompassing all areas of work, including:
				 Access points, storage and staging areas, borrow areas, stockpiles, and utility tie-in locations in on-site and off-site locations
				 Stream corridors and other resource areas to be preserved and all other areas outside the limits of construction shall be lightly shaded to clearly show area not to be disturbed.
Yes 🔀	No 🗌	N/A 🗌	7.	Location of stockpiles, including topsoil, imported aggregates, and excess material
Yes 🔀	No 🗌	N/A 🗌	8.	Location of storage and staging areas for equipment, fuel, lubricant, chemical (and other materials) and waste storage
Yes 🗌	No 🗌	N/A 🔀	9.	Location of borrow or disposal areas Borrow soil will be provided
Yes 🗌	No 🗌	N/A 🔀	10.	Location of temporary roads by the contractor
Yes 🔀	No 🗌	N/A 🗌	11.	Location, map symbol, and letter callouts of all initial erosion and sediment control BMPs
Yes 💢	No 🗌	N/A 🗌	12.	Information to be specified for each BMP, such as type and dimensions, as called for in the Standard Notes and Details
Yes 💢	No 🗌	N/A 🗌	13.	The following note: • SEE COVER SHEET OF LONE TREE STANDARD NOTES AND DETAILS (SHEET 1 OF 3) FOR LEGEND OF BMP NAMES AND SYMBOLS.
Yes 🗌	No 🗌	N/A 🔀	14.	Other information as may be reasonably required by Lone Tree

Interim GESC Plan								
Yes 🔀	No 🗌	N/A	1.	Items 1, 2, and 4 through 10 from the Initial GESC Plan				
Yes 🔀	No 🗌	N/A 🗌	2.	Existing topography at one- or two-foot contour intervals extending a minimum of 100 feet beyond the property line, as shown on Initial GESC Plan. These contours shall be screened.				
Yes 🔀	No 🗌	N/A 🗌	2.	Location of all existing erosion and sediment control measures on site, as shown on the Initial GESC Plan Sheet. These control measures shall be screened. Dimension information for initial stage BMPs shall not be shown.				
Yes 🔀	No 🗌	N/A 🗌	3.	Proposed topography at one- or two-foot contour intervals, showing elevations, dimensions, locations, and slope of all proposed grading				
Yes 🗌	No 🗌	N/A 🗌	4.	Outlines of cut and fill areas Will be included in 2nd submittal				
Yes 🔀	No 🗌	N/A 🗌	5.	Location of all interim erosion and sediment controls, designed in conjunction with the proposed site topography, but also considering the controls designed for the existing topography.				
Yes 🔀	No 🗌	N/A 🗌	6.	Locations of all buildings, drainage features and facilities, paved areas, retaining walls, cribbing, water quality facilities, or other permanent features to be constructed in connection with, or as a part of, the proposed work, per approved plat, SIP, RSP, or other improvement plan.				
Yes 🔀	No 🗌	N/A 🗌	7.	The following notes:				
				 SEE COVER SHEET OF LONE TREE STANDARD NOTES AND DETAILS (SHEET 1 OF 3) FOR LEGEND OF BMP NAMES AND SYMBOLS. 				
				 SHADED BMPS INSTALLED IN THE INITIAL STAGE SHALL BE LEFT IN PLACE IN THE INTERIM STAGE. 				
				 ALL INTERIM BMPS, INCLUDING SEEDING AND MULCHING OF DISTURBED AREAS, MUST BE COMPLETED PRIOR TO ISSUANCE OF ANY CURB AND GUTTER PERMITS. 				
				 SEE CONSTRUCTION PLANS FOR DETAILS OF PERMANENT DRAINAGE FACILITIES SUCH AS DETENTION FACILITIES, CULVERTS, STORM DRAINS, AND INLET AND OUTLET PROTECTION. 				
Yes 🗌	No 🗌	N/A 🗌	8.	Summary of cut and fill volumes Will be included in 2nd submittal				
Yes 🗌	No 🗌	N/A 🔀	9.	Other information as may be reasonably required by Lone Tree				

Final GESC Plan							
Yes 🔀	No 🗌	N/A 🗌	1.	Items 1, 2, and 5 from the Initial GESC Plan			
Yes 🔀	No 🗌	N/A 🗌	2.	Existing topography in areas of proposed contours shall not be shown.			
Yes 🔀	No 🗌	N/A 🗌	3.	Existing Initial and Interim BMPs shall be shown (screened). Dimension information shall not be shown.			
Yes 🗌	No 🗌	N/A 🗌	4.	Directional flow arrows on all drainage features			
Yes 🔀	No 🗌	N/A 🗌	5.	Any Initial or Interim BMPs that are to be removed and any resulting disturbed area to be stabilized			
Yes 💢	No 🗌	N/A 🗌	6.	Location of all Final erosion and sediment control BMPs (including seeding and mulching of any areas not stabilized in the Interim Plan), permanent landscaping, and measures necessary to minimize the movement of sediment off site until permanent vegetation can be established.			
Yes 🔀	No 🗌	N/A 🗌	7.	Show area of buildings, pavement, sod, and permanent landscaping (define types) per accepted improvement plan.			
Yes 🔀	No 🗌	N/A 🗌	8.	Show seeding and mulching (SM) everywhere except within the limits of buildings and pavement areas.			
Yes 🗌	No 🗌	N/A 🔀	9.	Show other BMPs considered by the designer to be appropriate.			
Yes 🔀	No 🗌	N/A 🗌	10.	Show the following BMPs to be removed prior to end of construction:			
				 Indicate dewatering (DW) to be removed. Indicate temporary stream crossings (TSC) to be removed. Indicate stabilized staging area (SSA) to be removed. Indicate street inlet protection (IP) to be removed. Indicate vehicle tracking control (VTC) to be removed. Indicate construction fence (CF) to be removed. 			
Yes 🔀	No 🗌	N/A 🗌	11.	Include the following notes:			
				 SEE COVER SHEET OF LONE TREE STANDARD NOTES AND DETAILS (SHEET 1 OF 3) FOR LEGEND OF BMP NAMES AND SYMBOLS. 			
				 SHADED BMPS INSTALLED IN THE INITIAL AND INTERIM GESC PLANS, UNLESS OTHERWISE INDICATED, SHALL BE LEFT IN PLACE UNTIL REVEGETATION ESTABLISHMENT IS APPROVED BY THE CITY. 			
				 SEE CONSTRUCTION PLANS FOR DETAILS OF PERMANENT DRAINAGE FACILITIES SUCH AS DETENTION FACILITIES, CULVERTS, STORM DRAINS, AND INLET AND OUTLET PROTECTION. 			
Yes 🗌	No 🗌	N/A 🔀	12.	Other information as may be reasonably required by Lone Tree			

GESC Report									
Yes X	No 🗌	N/A 🗌	1.	Name, Address, and Telephone Number of Applicant(s) – The name, address, and telephone number of the Professional Engineer preparing (or supervising the preparation of) the GESC Plan shall also be included, if different from the Applicant's.					
Yes 💢	No 🗌	N/A 🗌	2.	<u>Project Description</u> – A brief description of the nature and purpose of the land-disturbing activity, the total area of the site, the area of disturbance involved, and project location including township, range, section and quarter section, or the latitude and longitude, of the approximate center of the project.					
Yes 💢	No 🗌	N/A 🗌	3.	Existing Site Conditions – A description of the existing topography, vegetation, and drainage; a description of any wetlands on the site; and any other unique features of the property.					
Yes X	No 🗌	N/A 🗌	4.	Adjacent Areas – A description of neighboring areas such as streams, lakes, residential areas, roads, etc., which might be affected by the land disturbance.					
Yes X	No 🗌	N/A 🗌	5.	<u>Soils</u> – A brief description of the soils on the site including information on soil type and names, mapping unit, erodibility, permeability, hydrologic soil group, depth, texture, and soil structure (this information may be obtained from the soil report for the site, for adjacent sites if acceptable to the County, or the applicable Soil Survey prepared by the Natural Resources Conservation Service).					
Yes 💢	No 🗌	N/A 🗌	6.	<u>Areas and Volumes</u> – An estimate of the quantity (in cubic yards) of excavation and fill involved (indicating a balance onsite), and the surface area (in acres) of the proposed disturbance.					
Yes 💢	No 🗌	N/A 🗌	7.	<u>Erosion and Sediment Control Measures</u> – A description of the methods presented in the GESC Criteria Manual that will be used to control erosion and sediment on the site.					
Yes 💢	No 🗌	N/A 🗌	8.	<u>Timing/Phasing Schedule</u> – A schedule indicating the anticipated starting and completion time periods of the site grading and/or construction sequence, including the installation and removal of erosion and sediment control BMPs. Indicate the anticipated starting and completion time periods of individual project phases.					
Yes 💢	No 🗌	N/A 🗌	9.	<u>Permanent Stabilization</u> – A brief description, including applicable specifications, of how the site will be stabilized after construction is completed.					
Yes 💢	No 🗌	N/A 🗌	10.	Stormwater Management Considerations – Explain how stormwater runoff from and through the site will be handled during construction.					
Yes X	No 🗌	N/A 🗌	11.	<u>Maintenance</u> – Any special maintenance requirements over and above what is identified in the standard notes and details.					
Yes 💢	No 🗌	N/A 🗌	12.	Opinion of Probable Cost (City Format) – An opinion of probable costs for erosion and sediment control, including anticipated maintenance during the construction phase, shall be submitted with the GESC Plan. This will be reviewed by City staff and used as a basis for fiscal security. Electronic or paper copies of the spreadsheet to be used for preparing the opinion of probable costs for erosion and sediment control are available upon request. Unit costs used to develop probable erosion and sediment control costs shall be those shown in the spreadsheet.					



Yes 🗌	No 🗌	N/A 💢	13.	<u>Calculations</u> – Any calculations made for the design of such items as sediment basins or erosion control blanket selection.
Yes 🗌	No 🗌	N/A 💢	14.	Other Information – As may be reasonably required by Lone Tree.
Yes 💢	No 🗌	N/A 🗌	15.	The Following Note – "This Grading, Erosion and Sediment Control Plan has been placed in the Lone Tree file for this project and appears to fulfill the applicable Douglas County Grading, Erosion and Sediment Control Criteria, as amended. I understand that additional grading, erosion and sediment control measures may be required of the Permittees, due to unforeseen erosion problems or if the submitted plan does not function as intended. The requirements of this plan shall run with the land and be the obligation of the Permittees until such time as the plan is properly completed, modified or voided."
Yes X	No 🗌	N/A 🗌	16.	Signature Page for Permittees - Acknowledging the review and acceptance of responsibility, and a statement by the Professional Engineer acknowledging responsibility for the preparation of the GESC Plan (available upon request).
	0)			
Preparer's Signature				Date

