APPENDIX C GESC PLAN DEVELOPMENT CHECKLIST

DRAINAGEWAYS

A. Dra	inagewa	ays Sho	ould Not	be Filled, Regraded, or Realigned
	_ yes	no	1.	Determine design discharges for drainageways
	_ yes	no	2.	Delineate floodplain limits for all drainageways
				es no 3. Show limits of fill adjacent to drainageways and channel be preserved
B. Am	ple Free	eboard	Above t	he 100-year Floodplain Provided
ele		no including		Provide ample freeboard above the 100-year floodplain to lot grades and lowest floor ints in fill)
C. Exis	sting Dr	ainage	ways Sta	abilized
	_ yes	no	1.	Design grade control structures in all drainage channels as necessary
	yes	no	2.	Design bank stabilization improvements as necessary
D. Dist	turbanc	e to Ex	isting D	rainageways Minimized and Quickly Restored
$\overline{\text{fol}}$	yes lowing:	no	1.	Identify features whose construction within drainageways is unavoidable, such as the
		yes	no	a) grade control structures
		yes	no	b) bank stabilization
		yes	no	c) road crossings (bridges or culverts)
		yes _	no	d) storm sewer outfalls
		yes _	no	e) utility crossings
		yes _	no	f) temporary stream crossings for construction access
are	yes just large	no e enougl	2. 1 to allow	Determine limits of construction around the features identified in Item D.1. above that construction to minimize disturbance
	yes each distu			Show Check Dam (CD) or Reinforced Check Dam (RCD) immediately downstream stream. Check sizing criteria
	yes	no	4.	Show Temporary Stream Crossings (TSC), as necessary
	_ yes	no	5.	Show Erosion Control Blanket (ECB) in all disturbed areas of streams
E. Any	Additi	onal Di	rainagev	ways Shall be Designed and Stabilized
	_ yes off on the		1.	Identify any additional small drainageways that are necessary to manage stormwater
	yes	no	2.	Determine design discharges and size the drainageways
strı	yes ictures or		3. For 2-yea	Design stabilization improvements as necessary for drainageways, including any drop or flows less than 10 cfs, criteria for Diversion Ditches (DD) may be used
F. Stre	am-Rel	ated Pe	ermitting	g Shall be Completed
req	_ yes _ uired doo		1. tion and s	Determine if the following permits (and any others) are necessary. If so, complete the submit applications
		yes	no	a. US Army Corps of Engineers Section 404 Permit
		yes	no	b. US Fish and Wildlife Service Threatened and Endangered Species approvals

City of Cañon City, 2019

GESC Permit Manual Appendix C

SENSITIVE AREAS

exte	_ yes no nt of features	1. such as the	Conduct a resource inventory on the site and identify on the GESC Plan the type and following:	
	yes	no	a. Protected habitat for endangered species	
	yes		b. Wetlands	
	yes		c. Nesting bird habitat	
	yes	_ no	d. Riparian buffer zones	
	yes	_ no	e. Forested areas	
	yes	_ no	f. Mature cottonwood stands	
	yes	_no	g. Bedrock outcroppings	
	yes	_ no	h. Steep slopes	
	yes	_ no	i. Potential stormwater infiltration areas	
	yes	_ no	j. Historic, cultural, or archeological resources	
	yes	_ no	k. Areas of unique or pristine vegetation, or habitat	
	CE EARTHW			
	_ yes no		Endeavor to balance earthwork quantities on site through the following tasks.	
	yes		a. Develop initial grading plan.	
	yes	no	b. Check earthwork quantities for balance (consider shrink/swell).	
			yes no c. Raise or lower portions of the site as necessary to try to balance earthwork.	
	yes	no	d. Repeat steps b and c until balance is achieved.	
varia	yes no ance per the in		If it is impossible to balance earthwork quantities on site, prepare letter requesting n Part 4.B. of the GESC Manual.	
PHASIN	G GRADING	TO REDUC	CE SOIL EXPOSURE	
	_yes no	1.	For large projects, determine separate grading phases.	
	_ yes no	2.	Balance earthwork for each phase following the guidance above.	
STABILIZE SOILS IN A TIMELY MANNER				
	yes no portions of g		Show Surface Roughening (SR) for all areas of grading, to be performed immediately omplete.	
	_yes no	2.	Indicate Seeding and Mulching (SM) in all areas to be seeded.	
steer	yes no per than 3:1 ar	3. nd in all area	Indicate Erosion Control Blanket (ECB) or Compost Blanket (CB) on slopes as where an extra measure of stabilization is appropriate.	

City of Cañon City, 2019

GESC Permit Manual Appendix C

IMPLEMENT PERIMETER CONTROLS.

City of Cañon City, 2019

A. Upslope	e Perimete	ers.	
			Use Diversion Ditch (DD) to capture runoff entering the site via sheet flow. Follow 17 of the GESC Manual.
	s no of a stream,	2. the divers	For steep reaches, such as where the ditch conveys runoff down a channel bank to the ion ditch is to be lined based on the criteria shown in the GESC Manual.
ye Drain	es no	3.	For an alternative to a lined ditch in steep sections, consider a Temporary Slope
B. Downslo	ope Perim	eters.	
	s no anent drain		If the upslope disturbed drainage area exceeds 1.0 acre, use a Diversion Ditch (DD) convey runoff to a Sediment Basin (SB) .
(DD), R	no Reinforced The to be use	Rock Berr	If the upslope disturbed drainage area is less than 1.0 acre, use a Diversion Ditch (RRB), Sediment Control Log (SCL), or Silt Fence (SF). In general, the latter three ontour.
			Use a Check Dam (CD) or Reinforced Check Dam (RCD) across a stream or slope perimeter of the site.
TREAT RU	NOFF IN A	SEDIMEN	IT BASIN.
Basin (s no SB). Use th ST) may be	e standard	Runoff from all disturbed areas greater than 1.0 acre shall be treated in a Sediment design for drainage areas less than 15 acres. For areas less than 1.0 acre, a Sediment
			If a non-standard design is used, construction drawings detailing the storage volume, atlet are required.
quality	es no or quantity corporated		Wherever possible, sediment basins are to be located within any permanent water facilities. Permanent water quality or quantity detention facilities shall have a sediment m.
PROTECT S	STEEP SLO	OPES.	
A. Propose	ed Slopes S	Shall be n	to Steeper than 3 to 1.
of ripra	es no p outlet pro	1. tection nea	Ensure that no slopes are proposed that are steeper than 3H to 1V, except small areas routfalls and culverts.
ye	es no	2.	Show Erosion Control Blanket (ECB) on slopes steeper than 4:1.
B. Runoff	Shall be D	oiverted A	way from Steep Slopes.
ye	es no	1. down tl	Use Diversion Ditch (DD) at the top of steep slopes to capture runoff before it flows ne slope.
C Terreci	nσ Shall h	e Incorn	orated into the Grading of Steen Slopes

GESC Permit Manual Appendix C

	yes	no	1. reduce	Use terracing (TER) in steep slopes to break up the flow of incidental water and the development of rill and gully erosion runoff before it flows down the slope.			
Pro	PROTECT INLETS, STORM SEWER OUTFALLS, AND CULVERTS.						
	yes	no	1.	Show Inlet Protection (IP) at all street and area inlets.			
	yes	no	2.	Show Reinforced Rock Berm for Culvert Protection (RRP) at all culvert inlets.			
	yes	no	3.	Design outlet protection for all storm sewer outfalls and culvert outlets.			
	yes of the outfal		4. vert.	Show Erosion Control Blanket (ECB) in stream areas disturbed by the construction			
PROVIDE ACCESS AND GENERAL CONSTRUCTION CONTROLS.							
	yes	no	1.	Identify limits of construction activity.			
	yes from a publi		2. to a site.	Provide one or more Vehicle Tracking Controls (VTC) at all entrance/exit points			
	yes	no	3.	Provide a Stabilized Staging Area (SSA) near the main access point.			
	yes	no	4.	Provide a Concrete/Equipment Washout Area (CWA) near all concrete work areas.			
	yes	no	5.	Provide temporary access roads and stockpile areas.			
	yes	no	6.	Provide appropriate control measures for all potential pollutant sources.			
	yes		7.	Select areas for the vehicle tracking control, stabilized staging area, access roads, and			
	stockpile areas that avoid disturbance to trees, desirable vegetation, steep areas, and low, wet areas.						

GESC Permit Manual

Appendix C