9.0 Drawing Requirements

Drawings represent plateaus of stabilization and show the site at a factual period in time. Each drawing should include details of what is present at that stage, no more, no less. For example, do not show onsite undergrounds storm infrastructure on ESC5 – Before Development, because these would not be present at this phase in time. Below are the requirements that must be included in your ESC drawings.

a) A1 drawings are **folded** to letter size (approximately 8" X 11") – submissions of rolled drawings are not accepted
b) Drawings are folded so the Project Information is visible for all drawings (with the exception of the Landscape drawing)

Project Information:

i. Permit – Seal (CPESC, P.Eng., P.L.Eng or P.Ag)
ii. City of Calgary Office Use (space required is 5x8cm)
iii. Project Name
iv. Owner
v. City Project Number (e.g. DA, DP, CD)
vi. Drawing Title
vii. Scale
viii. Date
ix. Drawing Code

c) Drawings are labeled to match ESC Drawing Code's identified in the Construction Drawings section of the Erosion and Sediment Control Plan Application Form
d) All the dates in the Project Information section must match (with the exception of the landscape drawing)
e) Drawings must be scaled for readability (generally, a scale of greater than 1:1000 will not be accepted)
f) Where more than one drawing is required to show a single stage in time, match lines must be shown on the drawings
g) Font size must be legible
h) All drawings include a revisions table
i) Include a north arrow
j) The construction boundary is delineated (must match the land use application)
k) Indicate what cover is present on the drawings (e.g. asphalt, exposed soil, gravel, grass, trees)
l) Delineate all vegetated areas. For those that are to be protected/retained, clearly indicate what barriers, controls and practices are being installed
m) Show the adjacent properties (e.g. rivers, residential, commercial area, environmental/municipal reserves, and roadways)
n) Include contours at 0.5m
o) Show the height and location of retaining walls
p) Using an arrows, indicate the slopes, show length and direction with all slope lengths and LS values marked (25m@6% = LS 0.72); attach a unique LS identifier to each LS value (e.g. LS21)
q) Indicate the patterns on overland drainage including the run-on and run-off locations and any emergency overland flow routes
r) Show the drainage divides to define drainage areas and indicate the drainage area sizes in ha. Provide each drainage area a unique drainage area identifier (e.g. Area #1)
s) Include the location of existing and proposed permanent storm drain inlets, pipes, outlets and other permanent facilities onsite and for the surrounding area that are present at the stage of time the drawing represents
t) Identify the location of critical areas within or near the development. Critical areas may include, but are not limited to, areas that are environmentally sensitive such as environmental reserves, water bodies and natural areas
u) Show the location of the footprint where the construction project is being built. Only show this if the building is occurring at the time that the drawing represents (e.g. building footprints would not show up on stripping and grading drawings). Examples of footprints include building footprints, overpasses, storm mains or single family lots
v) Show the locations, types, dimensions and details for all erosion and sediment controls present at the stage of construction the drawing represents (e.g. for sediment containment systems include the length, width and depth, for storage ditches show the locations of cross check structures, for silt fence show the locations where J-hooks will be installed)
w) Provide the locations of stockpile staging area, both on and off site. Indicate what type of stockpile is in place and the estimated volume of the pile. If soil is being hauled off site, provide a separate map showing the haul routes
x) Provide a copy of the phasing plan if the area is to be constructed in phases. Phases represent how different areas on the construction project will be worked on at different phases in time (e.g. Phase 1 will be constructed in 2018, Phase 2 in 2019 and Phase 3 in 2020). This drawing may be created by others and does not need to be A1 in size
y) Provide a separate cut and fill plan. No cut and fill plan is required if no cuts or fills on the site exceed 2m. If your site does not have cut and fills over 2m, check the box next to Cut and Fill Doesn't Exceed 2 Meters
z) Provide a separate landscaping plan that includes details on seed, sod, plants and garden areas. Landscaping plans are not required for stripping and grading applications. As many landscape drawings are created by others, they are exempt from having a permit –seal [requirement 9.0(b)(i)]
aa) Include a legend on the right side of the page for drawings ESC1, ESC2, ESC3 and ESC5, ESC6, ESC7 and ESC8.