Beach Drive Retaining Wall Extension Port McNeill, BC

Completed on Behalf of:

Town of Port McNeill

Attention: Troy Simoneau (Interim Harbour Manager)





Project:

Reach Drive Retaining Wall

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Appendix A

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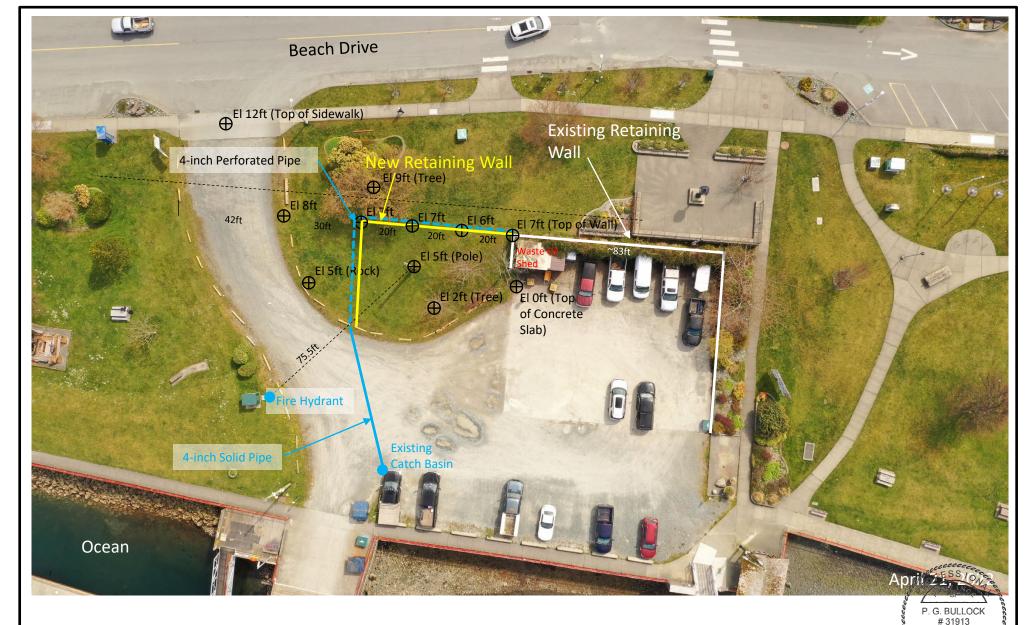
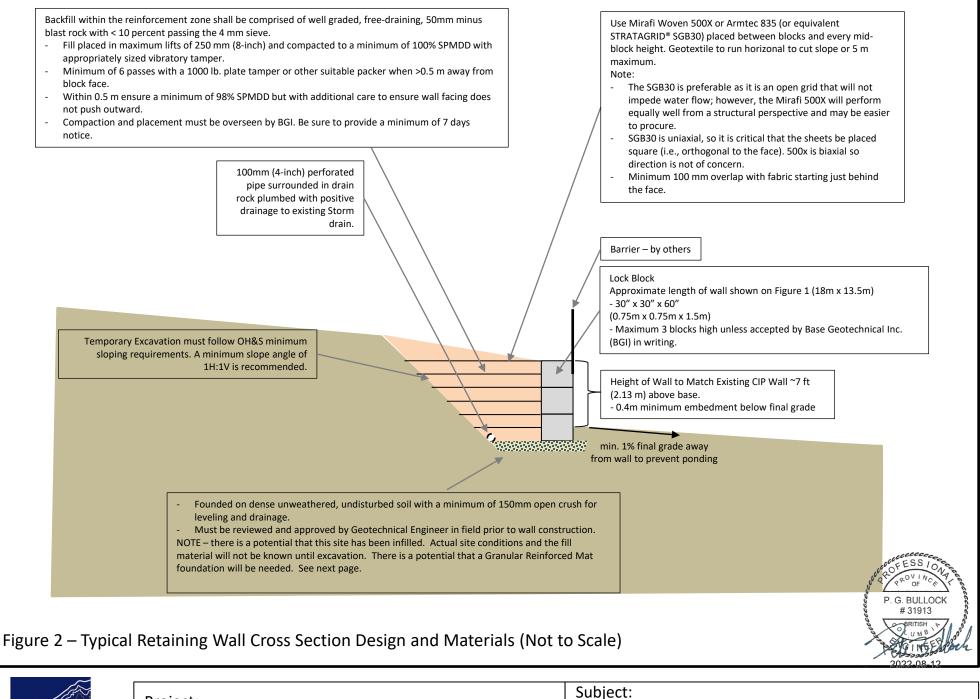


Figure 1 – Site Plan showing existing CIP Wall and proposed Lock-Block Wall. Drone Photo April 21, 2022 Elevations of existing ground surface and dimensions shown were surveyed by hand laser and approximate



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Backfill within the reinforcement zone shall be comprised of well graded, free-draining, 50mm minus Use Mirafi Woven 500X or Armtec 835 (or equivalent blast rock with < 10 percent passing the 4 mm sieve. STRATAGRID® SGB30) placed between blocks and every mid-Fill placed in maximum lifts of 250 mm (8-inch) and compacted to a minimum of 100% SPMDD with block height. Geotextile to run horizonal to cut slope or 5 m appropriately sized vibratory tamper. maximum. Minimum of 6 passes with a 1000 lb. plate tamper or other suitable packer when >0.5 m away from Note: The SGB30 is preferable as it is an open grid that will not Within 0.5 m ensure a minimum of 98% SPMDD but with additional care to ensure wall facing does impede water flow; however, the Mirafi 500X will perform not push outward. equally well from a structural perspective and may be easier Compaction and placement must be overseen by BGI. Be sure to provide a minimum of 7 days to procure. SGB30 is uniaxial, so it is critical that the sheets be placed square (i.e., orthogonal to the face). 500x is biaxial so direction is not of concern. 100mm (4-inch) perforated Minimum 100 mm overlap with fabric starting just behind pipe surrounded in drain the face. rock plumbed with positive drainage to existing Storm drain. Barrier - by others Lock Block Approximate length of wall shown on Figure 1 (18m x 13.5m) - 30" x 30" x 60" (0.75m x 0.75m x 1.5m) - Maximum 3 blocks high unless accepted by Base Geotechnical Temporary Excavation must follow OH&S minimum Inc. (BGI) in writing. sloping requirements. A minimum slope angle of 1H:1V is recommended. Height of Wall to Match Existing CIP Wall ~7 ft (2.13 m) above base Reinforced Granular Mat (RGM) - **actual spec to be confirmed by BGI may be required below Retaining Wall if unsuitable subgrade is min. 1% final encountered. Use Mirafi Woven 500X or Armtec 835 (or equivalent STRATAGRID® grade 1.2m (min) 1.2m Bottom 2 lifts each 200mm (8-inch) thick and upper lift 100 mm (4-inch) (min) thick, compacted to a minimum of 100% SPMDD. Backfill can consist of same material used in the reinforcement zone behind the retaining wall. Alternatively, can use a 75 mm minus blast rock or pit run with <10% passing the No. 200 sieve. P. G. BULLOCK #31913 Figure 3 – Discussion Use Only - Construction of a Reinforced Granular Mat should be expected if infilling found under foundation. (not to scale)



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