General Notes:

1. Field Survey for active quarrying areas including stockpiles utilized lidar and was performed from September 27 to October 1, 2015. Lidar from the Matanuska-Susitna Borough was used elsewhere.
2. Drawing intended to be used as a visual representation of existing and planned quarry activity.
3. Waste material shall be placed in compacted layers on the existing quarry floor. Inclined lifts are not to exceed one foot.
4. The quarry floor shall be graded and left in a uniform, smooth, compacted and useable surface. Drainage to be as indicated in the contract documents.
5. Berms shall be compacted and graded to drain in a specified direction and shall be constructed and maintained to reduce and control surface water discharge.
6. Where drainage is specified, slopes shall be constructed and maintained at a minimum grade of 2%.
7. Berms and drainage ditches shall be constructed where required. As such, to remain SWPPP compliant and reduce concrete flows.
8. Where applicable, safety berms shall be constructed to meet MSHA requirements and as directed by the owner.
9. Quarry face shall be benchaced and maintained according to MSHA requirements and as shown in the contract documents, access to benches shall be constructed and maintained.
10. Blasting activities shall extend in a uniform and even pattern, chiseling material’s will not be permissible.
11. Organic overburden located above the eastern and southern portions of the existing quarry face shall be stripped and placed on the stripped spoils pile as shown on the drawings.
12. Drainage ditches/streams and storm water countermeasures shall be maintained and constructed where necessary and required by Federal, State and Local Agencies.
13. Ballast shall be monitored for acceptable quality and gradation. Ballast samples collected for Quality Assurance may be collected from material stockpiles and from production belts.
14. Ballast samples for Quality Control purposes shall be taken directly off the production belt.
15. The quarry access road shall be maintained and repaired as often as required to maintain storm water controls and safety requirements.
16. A non-potable water well is currently located near the laydown area and load out rail.
17. ARRC personnel and equipment shall perform rail car loading operations, this may occur simultaneously with material production.
18. Material shall be stockpiled in such a way that ensures segregation and material regeneration.
19. Stockpiles shall be placed as near to the load out rail as possible but not within 35 feet of the near rail and no higher than twenty (20) feet.
20. 100,000 Tons of Ballast material shall be stockpiled south of the primary stockpile area as shown on the drawings for use by a third party at a later date.
General Notes:

1. No road access is available to the quarry.
2. Equipment travel will be limited to work trains, crew transportation via Hurricane Turn passenger train, helicopter or boat.
3. Crew transport shall be coordinated through and be the responsibility of the contractor.
4. All equipment will be mobilized and demobilized via railroad work trains loaded at the Anchorage or Fairbanks Yards.
5. At the close of the first season of work, ARRC will provide a partial de-mobilization and speculate a partial re-mobilization.
6. ARRC will provide diesel fuel to the Quarry site.
7. Typical sections are intended for a visual representation of planned, at completion quarry development progression and expansion.
8. Contractor shall be responsible for providing, for ARRC approval their own Quarry development plans.
9. Access to all benches shall be maintained throughout and after production.
10. Crusher waste and other waste material shall only be placed in borrow areas approved by ARRC.
11. Waste material may be deposited in even lift on the existing quarry face. Lifts are not to exceed one (1) foot in depth and shall be properly compacted.
12. Production solids shall be loaded for the primary purpose of creating specified blast material.
13. Subsequent larger rock created as the byproduct of blast material shall be used as riprap.
General Notes:

1. Site conditions, including topographical survey, may have changed.
2. All plans and drawings are intended for visual representations of general concepts not drawn to scale.
3. Typical sections are intended for a visual representation of planned realization of the quarry development progression.
4. Undated graphic was taken from Google Earth and was dated May of 2018.
5. AARCC may perform interim surveys throughout production to measure actual quantity and quarry development.