PART 1 -- GENERAL

1.01 WORK INCLUDED

A. Provide the concrete shown on the Plans.

B. Include reinforcing steel and anchor bolts as shown on the drawings.

1.02 RELATED SECTIONS

A. Section 02223 - Backfilling

B. Section 02231 - Aggregate Base Course

C. Section 13201 - Underground Storage Tanks

D. Section 13202 - Aboveground Storage Tanks

1.03 REFERENCES

A. American Concrete Institute Publication:
   1. ACI 302 -- Guide for Concrete Floor and Slab Construction.
   2. ACI 306 -- Cold Weather Concreting.

B. American Society for Testing and Materials Publications:
   1. ASTM C 33 -- Concrete Aggregates
   2. ASTM C 150 -- Portland Cement.
   3. ASTM C 260 -- Air-Entraining Admixtures for Concrete.
   4. ASTM C 94 -- Ready-Mixed Concrete.
   5. ASTM C 685 -- Concrete Made by Volumetric Batching and Continuous Mixing.

1.04 QUALITY ASSURANCE

A. Obtain all concrete from the same source.

1.05 WEATHER LIMITATIONS

A. No concrete shall be placed when the air temperature is less than 40 degrees F or approaching 40 degrees F without following the provisions of ACI 306.
1.06 SUBMITTALS

A. Material Submittals:
   1. Concrete mix design.
   2. Test results showing that the proposed concrete mix design has produced concrete which conforms to this specification.
   3. Manufacturer’s instructions for the concrete curing compound.

B. Project Control Submittals:
   1. Batch ticket for each truckload of concrete delivered to the job site. The following information shall be on the ticket:
      a. Name of concrete plant.
      b. Ticket serial number.
      c. Date of delivery.
      d. Truck number.
      e. Name of Contractor.
      f. Name and location of project.
      g. Concrete classification.
      h. Amount of concrete delivered.
      i. Time when the concrete is loaded onto the truck.

PART 2 -- PRODUCTS

See drawings for specifications for concrete materials and concrete mixture.

2.01 CONCRETE CURING MATERIALS
   A. Conform to ACI 302.

2.02 CONCRETE FORMING MATERIAL
   A. Conform to ACI 302.

2.03 REINFORCING STEEL
   A. Conform to ACI 302.

PART 3 -- EXECUTION

3.01 INSPECTION
   A. Ensure that the base material is not frozen and is free of debris, standing water, snow and ice.
   B. Ensure that the base material is compacted and at the proper grade.
3.02 PREPARATION
   A. Moisten the base material, if dry, to minimize water absorption from the fresh concrete.

3.03 FORMWORK
   A. Provide formwork in accordance with ACI 302, where the excavation edge cannot be used for form for the concrete.
   B. See Section 02680, Fuel Distribution for specifications for the metal island formwork.

3.04 REINFORCING STEEL PLACEMENT
   A. Place the reinforcing steel as shown on the drawings, and in accordance with ACI 302.

3.05 CONCRETE PLACEMENT
   A. Place the concrete in accordance with ACI 302. Ensure that all joint filler material remains in place during placement.
   B. Install contraction joints as described in ACI 302.

3.06 CONCRETE FINISHING
   A. Provide a floated finish.

3.07 CONCRETE CURING
   A. Cure the concrete in accordance with ACI 302.

3.08 PROTECTION
   A. Protect the concrete from damage and defacement during the curing period.

END OF SECTION