

**SCOPE OF WORK**  
**Installation of Welder Shop Concrete Pad**  
**EMBASSY DJIBOUTI**  
**May 2016**

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**1 PROJECT DESCRIPTION**

- 1.1 This project work is to install a parking pad at the US Embassy Djibouti per this scope of work provided by the U.S. Embassy.
- 1.2 The project work includes:
  - 1.2.1 Excavation of engineered backfill to grade and level the site for the new slab.
  - 1.2.2 Backfilling and compaction with compactable crushed granite or limestone aggregate.
  - 1.2.3 Installation of all form work.
  - 1.2.4 Provision and installation of concrete with either minimum #10 rebar or structural fiber add-mixture.
- 1.3 Area of Project:
  - 1.3.1 The area of the project is outside of the welder's shop at the Warehouse..
  - 1.3.2 New slab will match existing slab elevation with applicable control joints.
  - 1.3.3 Slab size will be 15 cm thick.

**2 SCOPE**

**2.1 PRIOR TO IMPLEMENTATION**

- 2.1.1 Submit to the CO and/or COR within 30 days of Notice to Proceed, document submittal package that includes:
  - 2.1.1.1 Concrete mix design will be standard high/early 4000 psi mix.
  - 2.1.1.2 If fiber add-mixture is used, provide mixture quantity per cubic meter.
  - 2.1.1.3 Provide 7 and 21 day break test.

**2.2 IMPLEMENTATION**

- 2.2.1 Surface Preparation
  - 2.2.1.1 Excavate to match grade and slope of existing pad.
  - 2.2.1.2 Dispose of all excavation overburden.
  - 2.2.1.3 Compact subgrade 95%.
  - 2.2.1.4 Install 100-150mm (4-6") of crushed gravel as base for concrete.
- 2.2.2 Concrete Work
  - 2.2.2.1 Concrete work and materials shall conform to ACI-301 and ACI-318 (latest edition)

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- 2.2.2.2 Concrete shall develop 4000 psi compressive strength @ 28 days.
- 2.2.2.3 Concrete shall be placed in a manner that will prevent segregation of concrete materials and the infiltration of soil and/or water into the mix.
- 2.2.2.4 Control joints shall be saw cut not later than 24 hours after concrete has been poured.
- 2.2.2.5 Control joints will be max 2000mm O.C. in both directions.
- 2.2.2.6 Joints shall be filled with mastic joint filler.
- 2.2.2.7 Surface will be a light broom finish.
- 2.2.2.8 All slab edges will be chamfer corner (25mm x 25mm)

2.2.3 Concrete Design

- 2.2.3.1 Slab thickness is 150mm (6 inches) to match existing slab.
- 2.2.3.2 All exterior slab edges will be 203mm (8 inches) deep by 300mm (12 inches) wide with two layers of #4 rebar 150mm (6 inches) O.C. with 100mm (4 inches) between layers unless fiber add-mixture is used.
- 2.2.3.3 The slab design is intended for light vehicular traffic.
- 2.2.3.4 The slab will support HS20-44 loading in emergencies.
- 2.2.3.5 Use AASHTO standard truck load pattern for design.
- 2.2.3.6 Design Static Load for Shear = 26 kips; Moment = 18 kips
- 2.2.3.7 Design Live Load = 57 kips.

**2.3 AFTER IMPLEMENTATION**

- 2.3.1 Return area around slab to original condition.
- 2.3.2 Provide 1 year installation warranty for cracking and spauling.

**3 POINTS OF CONTACT**

- 3.1 **CONTRACTING OFFICER:** The Contracting Officer (CO) shall be the Embassy General Services Officer
- 3.2 **CONTRACTING OFFICER REPRESENTATIVE (COR)** shall be the Embassy Facility Manager

**4 PROPOSAL SUBMITTAL: proposal shall be submitted to GSO, U.S. Embassy Djibouti ([djiboutiprocurement@state.gov](mailto:djiboutiprocurement@state.gov))**

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