

APPENDIX B-1

SITE ANALYSIS

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PROJECT NAME:

CONTRACT NUMBER:

USACE RESIDENT OFFICE:

1.0 WATER SYSTEM

- a) Has the well been drilled and properly cased and sealed?
- b) Is a well pump installed?
- c) Has the well house been constructed?
- d) Are all required appurtenances provided on the well headworks?
- e) Has a well report, well drawdown test and water analysis been performed for the well?
- f) Is the water distribution system installed?
- g) Has the water tank been installed?
- h) Is the pipe material for the water distribution system known?

2.0 SANITARY SEWER SYSTEM

- a) Has the septic tank and leach field been installed properly, i.e. gravity flow, correct cover, depth of gravel under leach field lines, correct slope of leach field lines, distribution box installed correctly, etc.?
- b) Has the sanitary sewer collection system been installed to provide gravity flow with proper manholes, clean-outs and building service connections provided outside of the facility?
- c) Is the pipe material for the sanitary sewer collection system known?

3.0 SITE GRADING AND DRAINAGE

- a) Has the site been graded to provide positive drainage away from all buildings and site features?
- b) Has the on-site drainage system been provided to convey the storm water runoff thru the site?
- c) Has adequate storm drainage discharge thru the perimeter wall been provided?
- d) Is adequate outlet protection provided for all storm drainage discharge points?

4.0 ELECTRICAL

- a) Have the generators, bulk fuel storage tanks and day tanks been installed on the site?
- b) Have the generators, day tanks and fuel storage tanks been tested?
- c) Has the site secondary power distribution system been constructed with the correct conductors and conduits?
- d) Has the interior secondary power distribution system been constructed with the correct conductors and conduits?
- e) Have all receptacles, switches, junction boxes, lights, fans, etc. been constructed? Are GFCI receptacles provided in wet areas?
- f) Has the conduit with pull wires for the communication system been constructed?
- g) Has the CCTV system to monitor the jail cells been provided in the Headquarters Building?
- h) Has lightning protection been provided for all required facilities?
- i) Have all panel boards been properly installed and wired?

5.0 FORCE PROTECTION MEASURES

- a) Has the site perimeter wall been completed properly (e.g. wall construction quality, height of wall relative to surrounding grade and line of sight)?
- b) Have all gates been installed properly?
- c) Have the vehicle barriers been installed?
- d) Have the Guard Shacks, Guard House and Guard Towers been completed?
- e) Has the primary ECP been constructed?
- f) Has the secondary ECP been constructed?
- g) Has a stand-off ECP been constructed?

6.0 PARKING, ROADS, WALKWAYS & MISCELLANEOUS

- a) Have the parking area, roads, and walkways been constructed?
- b) Have the trash collection points been constructed?
- c) Are personnel bunkers placed on site?

7.0 BUILDINGS

Have all of the buildings been constructed?

For each building assess the following:

- a) Do the walls or foundation show any signs of settlement?
- b) Is there any defective concrete work (e.g. honeycombing) that needs to be removed / corrected?
- c) Is there any defective CMU work (e.g. loose block, poor mortaring) that needs to be removed / repaired?
- d) Are the tops of the CMU walls positively connected (e.g. clip angles or rebar) to the concrete roof beams and slabs?
- e) Is the roof complete with framing, insulation, decking, trim, soffits, gutters, etc.?
- f) Have the doors, windows & hardware been installed?
- g) Has the kitchen been constructed with appropriate stoves, trench drains and grease trap?
- h) Is the propane system constructed for the kitchen and/or heating system?
- i) Have the bathrooms been constructed with toilets, lavatories and showers?
- j) Has the interior and exterior finishing of the facility been completed with the proper stucco, paint, and tile?
- k) Have fire extinguishers been provided within the facilities?

8.0 PLUMBING

- a) Has the plumbing system been completed?
- b) Are the eastern water closet provided with a cleaning hoses?
- c) Are there any P-trap issues on this project?
- d) Are hose bibs and floor drains shall be provided?