

502 Junction Substation

The 502 Junction Substation is an unmanned facility.

502 Junction Substation will be a fenced area of approximately 21 acres. The fence will be 6' high aluminum coated steel chain link fence, with three strands of barbed wire installed on top to act as a climbing deterrent. The overall height of the fence with the barbed wire is 7'-0". The substation yard will be covered with 6" of ASTM 57 2B limestone for yard cover. This stone will extend a minimum of 3' outside of the substation fenced area. A 40' x 120' (estimated size) Metal Control building will be installed to house the substation electrical controls, metering, and communications equipment. This building will also house the 125VDC storage battery, and battery charger. The building will be climate controlled and will be complete with well and septic facilities. The control building will be erected on a monolithically poured concrete footer/slab. Steel columns and framework will be installed on approximately 20' centers to support the roof and walls. Painted steel panels will be installed as the exterior surface of the building. The building will be insulated and painted steel panels will be installed on the interior walls of the building.

A 52' x 32' x 14.6' eve height, maintenance building will be installed. This building will be used for performing maintenance on electrical equipment. The maintenance building will be a metal self framing, insulated building. The exterior surfaces will be raised rib, interlocking, painted metal panels. The interior walls and ceiling will be smooth surface, interlocking, painted metal panels. The building will be installed on a on a monolithically poured concrete footer/slab. Two overhead garage doors will be installed for vehicle and equipment access.

An AC emergency generator installation will be installed in a separate 16' x 24' building (estimated size). The building will be an insulated metal building with a painted exterior surface. This building will be installed on a monolithically poured concrete footer/slab. A 1000 gallon concrete above ground, diesel fuel storage tank will be installed near the emergency generator building.