

## 4.3.2 Customer General Responsibilities

Customer will assume responsibility for the installation and performance of all other equipment and work necessary for completion of this project that is not provided by Motorola. Customer's general responsibilities include the following:

- Customer will provide a dedicated delivery point, such as a warehouse, for receipt, inventory, and storage of equipment prior to delivery to the site.
- Coordinate the activities of all Customer's vendors or other contractors.
- Obtain all licensing, site access, or permitting required for project implementation.
- Provide clear and stable access to the sites for transporting electronics and other materials. Sufficient site access must be available for trucks to deliver materials under their own power and for personnel to move materials to the facility without assistance from special equipment.
- Provide rack space and desk space (including desk furniture, as needed) for the System equipment at the remote sites and dispatch centers.
- Any required system interconnections not specifically outlined here will be provided by the Customer, per Motorola specifications. Test results to confirm specification compliancy are required prior to equipment installation. Note: These may include dedicated phone circuits, microwave links, or other types of connectivity.

## 4.3.3 Engineering Design Assumptions

- All sites are assumed to have adequate AC power supply and generator back up. However, Motorola has included DC power system with battery backup for up to 8 hrs in this proposal.
- Proposed Microwave links are based on a preliminary path survey performed using software path calculation tools. Also, Motorola used information and pictures from Google Earth to check the viability of the proposed links. The proposed link performance is contingent up on the availability of space on the tower/building and existence of direct Line of Site (LOS) between the proposed dishes. Once awarded, Motorola will perform physical path survey to confirm the link's LOS nature. In case of major design changes due to any reason, a Change Order may be required.
- For the proposed Cambium Network's link migration, Motorola used clutter data based on the 2001-2006 NLCD database to model tree heights in the path. Also, a growth factor of 20ft is considered. In case of major design change due to taller trees in the path, a Change Order may be required.
- Motorola included 15ft obstructions in the path profile to model buildings in the path from Foot Hills site to SVPD Site. In case of major design change due to taller buildings in the path, a Change Order may be required.
- Motorola assumes that the existing 18 GHz PTP 800 microwave equipment at SVRSC and SVPD is in good working condition. However, for any reason if the existing equipment doesn't support the proposed relocation plan and upgrade, then a Change Order may be required.
- Motorola assumes that all sites will be accessible with 4- wheel drive vehicles.
- Cochise county equipment at all sites is assumed to be ready for IP backhaul by the installation start date. Proposed Microwave network doesn't have the capability to carry any DS1s or DS3s (TDM traffic). Also, since there are tower loading issues at some of the sites, Motorola can't install the new links in parallel with the existing links. Hence, Motorola intends to perform one on one replacement of the microwave links. Motorola's preliminary cutover plan indicates site downtime during installation of link # 2,5,11 and 15.
- Motorola has based the equipment list, Statement of Work and associated pricing on the information provided by Cochise County. Should design changes be required due to inadequate system specification, RF coverage, frequency plan issues, or inter-modulation and interference problems, a Change Order may be required.