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3.3.4.4 *Electrical Distribution Facilities*

As part of the Project, Microsoft will construct a new on-site substation to be connected to PG&E's 115kV electrical distribution system. The on-site substation will be owned and operated by Microsoft. Interconnection of the new on-site substation to the PG&E distribution system will be through a new PG&E-owned and -operated switching station.

The new PG&E on-site switching station will be located immediately adjacent to the on-site substation and will be designed and constructed to applicable PG&E standards. The proposed PG&E switching station will be within the project site boundary and will encompass approximately 82,000 square feet. The proposed switching station will interconnect the new PG&E distribution system to the existing PG&E Trimble Substation and the existing PG&E Newark Substation through a new transmission line with poles up to 125 feet in height.

The new switching station will be configured in the breaker-and-a-half arrangement with two bays of three breakers each. Two sets of overhead aluminum conductor steel-reinforced cable (ACSR) conductors will interconnect the PG&E switching station with the Microsoft substation. The switching station will have direct access from Orchard Parkway.

PG&E metering equipment will be constructed in the Microsoft substation with manual disconnect on the line and load sides of the equipment. In addition, a PG&E meter and relay building will be constructed near the metering equipment. This building will be adjacent to the Microsoft substation and will have direct access from a public right-of-way.

The new Microsoft substation will consist of two 115kV-34.5kV step-down transformers to provide fully redundant electrical distribution to the data center buildings. Each transformer will be protected by a primary breaker and a secondary main breaker in the 34.5kV switchgear located within the substation. The new Microsoft substation will encompass approximately 50,000 square feet.

3.3.5 Landscaping

The Project proposes to remove approximately eighteen (18) on-site trees (located within the City of San José), ten (10) of which are ordinance size pursuant to the City of San José Tree guidelines as defined by San José Ordinance Title 13 (Streets, Sidewalks and Public Places), Chapter 13.28 (Tree Removal Controls).

Additionally, three (3) street trees will be removed to allow for site access along Orchard Parkway. As part of the right-of-way improvements along Orchard Parkway, the city may require the remaining ten (10) street trees to be removed and replaced in new tree wells installed in the proposed sidewalk, for a potential total of thirteen (13) removed street trees. No trees would be removed in the paved portions of the Infrastructure Improvement Areas.