1.1 **GENERAL**

1.2 **SFU Facilities Jurisdiction**

.1 SFU Facilities oversees the overall management of energy and water. SFU Facilities is responsible for design, operation, maintenance, and overall stewardship for each of the following underground utility services:

.1 *Section 33 10 00 Water Utilities*
.2 *Section 33 51 00 Natural Gas Distribution*
.3 *Section 33 49 00 Storm Drainage*
.4 *Section 33 30 00 Sanitary Sewerage Utilities*
.5 *Section 33 71 00 Electrical Utility Transmission and Distribution*
.6 *Section 33 00 10.1 SFU MMCD Infrastructure Data Standards*

.2 The demarcation point of service defining SFU Facilities’ responsibility is included in the respective sections as listed above.

.3 Note that other systems which run below grade at SFU include compressed air and central heating.

1.3 **Designer Responsibility**

.1 SFU Owners’ Technical Requirement establishes the minimum acceptable standards for the supply and installation of the underground utility services to the buildings on the campus. This is not a design manual. The designer is responsible to ensure that the standards stipulated herein are consistent with the project requirements and are adequate for the project design criteria. The designer shall define the project requirements in the project specification as part of the project tender document.

.2 Reference the newest version of the City of Burnaby Engineering Design Criteria sections 3.0 Water distribution, 4.0 Sanitary Sewer and 5.0 Storm drainage for the minimum requirements on water distribution, sanitary and storm sewers.

.3 Where comments in SFU Facilities Owners’ Technical Requirements is interpreted to conflict with the industry Standards, Acts and Codes, the compliance with the Standards, Acts and Codes shall prevail and the designer shall bring these conflicts in writing to the attention of the responsible manager at SFU Facilities.

.4 The consultant and/or contractor shall provide drawings in accordance with the Owners’ Technical Requirements (OTR). Within 60 days from backfill, the consultant and/or contractor shall provide a set of Red Line drawings to SFU Facilities. Upon completion of installation of any new or modified underground utility services, Record drawings of underground utility services shall be provided to SFU Facilities Records Department. Record drawings shall show utility service and/or infrastructure details as constructed including, for example, pipe or infrastructure facility size, material, invert and rim elevations, etc. Service profiles shall be provided in congested areas indicating location of all services. See *Section 01 77 00 Closeout Procedures* for details.

.5 Upon completion, full CCTV inspections/scope of all underground pipework must be completed on all projects and documentation provided to SFU Facilities (see specifications *33 82 01 CCTV Pipeline Inspection* for requirements specific to storm and sanitary).
.6 SFU Facilities requires SFU Infrastructure Data Standards (modified from MMCD Infrastructure Data Standards) for all the Utility design work & submission. All the documents & packages can be found at: https://vault.sfu.ca/index.php/s/GQQ5n1r4dUvTucW

Additional documentation and training videos can be found on https://apw.retrieve.com/#/ by creating an account to access.

2.1 SFU FACILITIES DEVELOPMENT SUPPORT SERVICES

2.2 Underground Utility Record Drawings

.1 Record drawings for all underground utility services must be submitted for SFU Facilities Records. Refer to section 01 78 39 Project Record Documents.

.2 See Section 33 00 10.1 SFU Infrastructure Data Standards.

2.3 Shutoffs

.1 SFU Facilities has sole authority and responsibility to perform shutoffs (or cross connections) of the systems within its jurisdiction. The cost for a service shutoff is based on time and materials, paid by the project.

2.4 Utility Service Connection Permits

.1 A service connection permit is required for any connection to a utility service as defined in the following Sections in Division 33:

1. Section 33 10 00 Water Utilities
2. Section 33 51 00 Natural Gas Distribution
3. Section 33 49 00 Storm Drainage
4. Section 33 30 00 Sanitary Sewerage Utilities
5. Section 33 71 00 Electrical Utility Transmission and Distribution

.2 Service connections must be coordinated with SFU Facilities in advance.

.3 Additional permits from the provincial Electric Safety Branch, Gas Safety Branch, Boiler Safety Branch, plumbing permits and the Construction Permit from the city of Burnaby are the responsibility of the project team.

2.5 Development Permit Approval by SFU Facilities

.1 SFU Facilities has sole authority to authorize underground utility service aspects of any development.

***END OF SECTION***