1. GENERAL

1.01 SECTION INCLUDES

.1 Commissioning Requirements.

1.02 REFERENCES

.1 Refer to Section 27 05 00 for references.

1.03 CLOSEOUT SUBMITTALS

.1 The Telecommunications Cabling Contractor is required to submit test results in native tester format or a format which can be read with a text reader (i.e. ".txt" extension). Paper results shall not be submitted for projects with 100 or more horizontal cable drops and/or fibre cables.

.2 The Telecommunications Cabling Contractor is required to provide the software required to view the results.

.3 The report should be divided into sections by Telecommunications Room.

.4 The report should indicate for each cable when it was tested successfully, the result, and the length.

.5 The Telecommunications Cabling Contractor shall sign off on the entire test report prior to submitting to the Consultant.

.6 The test result documentation is to be submitted to the Consultant for review no later than 10 working days following the completion of the installation.

.7 All deficiencies must be corrected before the Consultant will provide a certificate to release the Holdback on the project.

2. PRODUCTS – NOT USED

3. EXECUTION

3.01 INSTALLATION

.1 Testing of all horizontal copper cables are to be completed in accordance with the follow test criteria:

.1 Basic Link

.2 Grounds

.3 NEXT

.4 ELFEXT

.5 Continuity

.6 correct polarity

.7 PSNEXT

.8 PSELFEXT

.9 Shorts

.10 Length

.11 ACR

.12 Return Loss

.13 Opens

.14 Attenuation

.15 PSACR

.16 Resistance

.2 Fibre strands in excess of 122 m (400 ft) shall be tested with an Optical Time Domain Reflectometer for length and attenuation.

.3 Test each stand of fibre, bi-directionally, with a Power Meter / Light Source combination operating at wavelengths of 850 nm and 1300 nm for multimode fibres.

.4 Maximum multi-mode passive link loss (including patch cords) is not to exceed -1.5 dB.

.5 Maximum single-mode passive link loss (including patch cords) is not to exceed -1.5 dB.

3.02 RECORD DRAWINGS

.1 The Telecommunications Cabling Contractor is required to maintain one set of correct and accurate record drawings on-site at all times. These drawings are to be made available to the General Contractor/Construction Manager or the Consultant for review during the project.

.2 The Telecommunications Cabling Contractor is required to provide record drawings of the telecommunication cabling installation in relation to the drawings provided in this specification.

.3 The record drawings shall be updated electronically and include, but are not limited to;

.1 Horizontal cable numbers on the floor plans

.2 Horizontal Cable Routing on the floor plans

.3 Changes on the floor plans

.4 Backbone cable Routing between Telecommunications Rooms

.5 Paging Speaker Locations including daisy chain cable run

.6 Wireless Access Points and Cell coverage

.7 Cabinet/Rack Elevation drawings

.8 Backboard Elevation Drawing

.4 The Telecommunications Cabling Contractor shall provide one soft copy in AutoCAD 2007 and one plotted copy for the Consultant to review prior to complete substantial performance and close-out documentation submission.

.5 After approval, the Telecommunications Cabling Contractor shall submit one plotted copy of the drawings for;

.1 The Main Computer Room

.2 Each Telecommunications Room

.6 All close-out documentation must be submitted to the General Contractor/Construction Manager or The Consultant within 10 working days of the completion of the project before the documentation holdback will be released.

End of Section