

**THE NEW SURREY HOSPITAL  
AND  
BC CANCER CENTRE PROJECT**

**Schedule 1 – Statement of Requirements**

**Appendix 1J – Equipment List IM/IT**

## Appendix 1J – Equipment List IM/IT

### 1.1 Intent

1.1.1 The Intent of this Appendix is to:

1.1.1.1 Describe IM/IT Equipment categories; and

1.1.1.2 Define the responsibilities between Design-Builder and the Authority as it relates to IM/IT Equipment.

### 1.2 Definitions specific to this Appendix:

1.2.1 “Blocks” means an entire floor level of the Facility that the Design-Builder makes available for the Authority to Setup and Install IM/IT Equipment. Refer to Section 1.6 for the complete requirements pertaining to Blocks including splitting floors into multiple Blocks, and “Block” has a corresponding meaning;

1.2.2 “Category J” refers to Section 1.10;

1.2.3 “Category K” refers to Section 1.11;

1.2.4 “Deliver” means to ensure the IM/IT Equipment is sent to and arrives at the Facility and is received and stored in the Storage Room. “Delivery” and “Delivered” have corresponding meanings;

1.2.5 “Equipment” means collectively, the Category J and Category K;

1.2.6 “Equipment List” refers to a list of Category J and Category K IM/IT Equipment set out in this Appendix. The Equipment List is indicative and subject to change;

1.2.7 “IM/IT Equipment Committee” refers to Section 1.5;

1.2.8 “IM/IT Equipment Logistics Plan” means the intended schedule for Procurement, Delivery, Setup and Installation as updated in accordance with Section 1.6;

1.2.9 “Install” means to install in the Facility, including making connections to necessary building services (including plumbing, heating, cooling, ventilation, electricity including support structures, backing, seismic supports, or other infrastructure required by or supplied by the equipment vendor) and connections to necessary communication or network interfaces or devices, and “Installed” and “Installation” have corresponding meanings;

1.2.10 “Procurement” means the selection and purchase of Category J and Category K IM/IT Equipment, and “Procure” and “Procured” has a corresponding meaning;

1.2.11 “Setup” includes:

1.2.11.1 Transportation and movement of IM/IT Equipment within the Facility to and from the Storage Room or a location on the Site to the final IM/IT Equipment location. This includes the use of

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mechanical handling aids such as pallets jacks, hand trucks and carts to safely move such IM/IT Equipment; and

1.2.11.2 Placement in the final location within the Facility and unwrapping, unpacking, labelling, assembly, tagging or other requirements, including the correct disposal of all dunnage, packing or other waste materials.

1.2.12 “Storage Room” means:

1.2.12.1 A space in the Facility provided to the Authority six (6) months prior to Substantial Completion that is:

1.2.12.1(1) A minimum size of 40 m<sup>2</sup> that is physically separate and solely dedicated for the storage of IM/IT Equipment. The entrance to the Storage Room will be wide enough to move a standard sized pallet through the doorway;

1.2.12.1(2) Secured by a punch code lock and security alarm system;

1.2.12.1(3) Clean and environmentally suitable for people to work in (lighting, power, temperature and humidity control) and meets manufacturers’ standards for the storage of IM/IT Equipment;

1.2.12.1(4) Accessible any time of the day to the Authority to Deliver IM/IT Equipment;

1.2.12.1(5) Located such that there is convenient external access for Delivery without utilizing any ramps or stairs; and

1.2.12.1(6) Located on the same floor and in close proximity to operational elevators that can access all levels for the purpose of Setup in the Facility during Construction.

1.2.12.2 The design, construction and function of the Storage Room is to store IM/IT Equipment securely without risk of damage and theft while awaiting Setup and to enable Authority representatives to Receive, unpack and prepare IM/IT Equipment for Setup and Installation.

1.3 No Limitation

1.3.1 The Equipment List is not intended to be exhaustive or be an indication of the minimum IM/IT Equipment required for the Facility. It is not intended to be relied upon by Design-Builder, does not limit the requirements for Design and Construction, and provides only an indicative representation of the IM/IT Equipment that the Authority may deploy. The Authority may modify the Equipment List at any time, in its sole discretion throughout the duration of the Project.

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### 1.4 General

1.4.1 In order to take advantage of the most recent technological advances, final decisions on the selection of IM/IT Equipment sensitive to or anticipated to be revised with newer technology prior to the Substantial Completion, together with any training or service requirements, will not be made by the Authority until as late as possible in the period for Construction;

1.4.2 Physical Integration of IM/IT Equipment with Design of Facility:

1.4.2.1 The Facility will include space, communications infrastructure, wall backing, cable management, power and Telecommunications Outlets (TOs) with sufficient Data Drops for all IM/IT Equipment; and

1.4.2.2 The Design of the Facility will accommodate changes to IM/IT Equipment requirements that are identified throughout the duration of the Project.

### 1.5 IM/IT Equipment Committee

1.5.1 The Design-Builder will establish an IM/IT Equipment Committee composed of at least two (or any other number agreed between the parties) representatives of each party no later than eleven (11) months after the Effective Date;

1.5.2 The parties will ensure at least one representative from each party from the IM/IT Equipment Committee are members of the IM/IT coordination committee. Refer to Section 7.8.4.8 in Schedule 1 [Statement of Requirements]; and

1.5.3 The IM/IT Equipment Committee will meet regularly (not less than once per month) to review the status of, and to coordinate all parties as it relates to the Procurement, Delivery, Setup and Installation of IM/IT Equipment.

### 1.6 IM/IT Equipment Logistics Plan

1.6.1 The Design-Builder will provide a draft schedule of IM/IT Equipment related events in collaboration with the Authority within twelve (12) months after the Effective Date;

1.6.2 The Design-Builder will make available Blocks in the Facility to the Authority as per the schedule and all conditions in this Appendix;

1.6.3 The Authority will Setup Category J IM/IT Equipment by Blocks;

1.6.4 The Design-Builder will provide and maintain the schedule until Substantial Completion and meet the following requirements, unless changes to the requirements are agreed to by the Authority:

1.6.4.1 Identify Blocks in the Facility available for the Authority to Setup and Install IM/IT Equipment;

1.6.4.2 Provide no less than ten (10) Blocks in total and not more than twenty (20) Blocks in total;

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- 1.6.4.3 The start date of the first Block is not less than five (5) months prior to Substantial Completion;
  - 1.6.4.4 Provide Blocks that are equal in duration, equally spaced, and equally staggered. When staggering Blocks, the overlap of a Block with its predecessor Block cannot exceed three (3) Business Days;
  - 1.6.4.5 The number of concurrent Blocks at any time on the schedule cannot exceed two (2) Blocks; and
  - 1.6.4.6 Incorporate Authority Setup duration requirements per Block into the schedule. When a Block is for an entire floor, the duration is ten (10) Business Days. When an entire floor is made up of more than one (1) Block, the total duration for all the Blocks for the entire floor is ten (10) Business Days.
- 1.6.5 The Design-Builder will reflect in the IM/IT Equipment Logistics Plan other predecessors to complete IM/IT Setup and Installation. Indicative predecessors of IM/IT Equipment include:
- 1.6.5.1 Purchase and Installation of Category K IM/IT Equipment;
  - 1.6.5.2 Telecommunications Outlet (TOs) quantities in list format and with drawing drop identifications seven to eight (7 - 8) months ahead of Authority Setup and Installation;
  - 1.6.5.3 Storage Room for Category J IM/IT Equipment made available; and
  - 1.6.5.4 Spaces are clean, dust free, walls are painted, flooring and ceilings are finished, furnishings completed, desktop grommets completed, and active data and power provided.
- 1.6.6 The Design-Builder will reflect in the IM/IT Equipment Logistics Plan other successors to complete IM/IT Setup. Indicative successors of IM/IT Equipment include Authority IM/IT Equipment configuration, unit testing and system testing;
- 1.6.7 After the draft IM/IT Equipment Logistics Plan has been agreed to by both parties:
- 1.6.7.1 As required from time to time and until Substantial Completion of the Facility, but no less than once per calendar month, the Design-Builder will update and make available the IM/IT Equipment Logistic Plan so that at all times it is an accurate, reasonable and a realistic representation of the Design-Builder's plans for the completion of the Design and Construction of the Facility. The IM/IT Equipment Logistics Plan will be reviewed as a regular agenda item during the monthly IM/IT Equipment Committee.
- 1.6.8 The Authority will Deliver IM/IT Equipment to install in the Facility by the dates specified by the Design-Builder under Section 1.6 IM/IT Equipment Logistic Plan.

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- 1.7 Staging and Storage:
  - 1.7.1 The Design-Builder will:
    - 1.7.1.1 Provide a Storage Room;
    - 1.7.1.2 Provide 24/7 protection of the Storage Room and its contents against theft, fire, flood, smoke or any other condition that would put IM/IT Equipment at risk;
    - 1.7.1.3 Provide a procedure to access the Site and move IM/IT Equipment;
    - 1.7.1.4 Allow Authority representatives to access and work within the Storage Room any time of day; and
    - 1.7.1.5 Notify the Authority, in advance (no less than 24 hours), of any power interruptions to the Storage Room.
  - 1.7.2 The Design-Builder will provide the Storage Room to the Authority, with all the requirements available and without interruptions, six (6) months prior to Substantial Completion and until IM/IT Equipment is Setup in its final location in the Facility. If at any time the Design-Builder is unable to provide this Storage Room, in this period, and the Authority is unable to fully utilize the Storage Room, the Design-Builder will, at its cost, provide an alternative Storage Room location and move all stored IM/IT Equipment situated in the Storage Room at the time of its relocation; and
  - 1.7.3 The Design-Builder will provide and manage appropriate disposal containers easily accessible from the Storage Room of a size sufficient to accommodate waste generated from the Setup of IM/IT Equipment and empty the containers as required to avoid any backlog of the waste material.
- 1.8 Storage Costs:
  - 1.8.1 Any IM/IT Equipment storage costs incurred by the Authority as a result of the Storage Room not being available on or after the date agreed to by the Authority in the IM/IT Equipment Logistics Plan will be borne by the Design-Builder; and
  - 1.8.2 Damage and loss to IM/IT Equipment in the Facility prior to Substantial Completion is the responsibility of the Design-Builder.
- 1.9 Access to Move IM/IT Equipment:
  - 1.9.1 The Design-Builder will:
    - 1.9.1.1 Cause the Facility to enable the Authority access to and from the Storage Room and final IM/IT Equipment Setup location;
    - 1.9.1.2 Provide access from a common corridor or hallway that connects to an elevator;
    - 1.9.1.3 Provide lock off mechanisms in elevators to allow time for equipment ingress and egress;

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- 1.9.1.4 Provide access path which includes all road ways, entrances, corridors, doorways openings and elevators from the Facility loading dock and materials receiving areas;
- 1.9.1.5 Provide access that is well lit;
- 1.9.1.6 Provide access that is unobstructed; and
- 1.9.1.7 Cause the safe moving of IM/IT Equipment on a standard pallet or equipment cart.

### 1.10 Category J IM/IT Equipment

- 1.10.1 The Authority will Procure, Deliver, Setup and Install all Category J IM/IT Equipment;
- 1.10.2 The Authority will require the availability of the Storage Room to store Category J IM/IT Equipment; and
- 1.10.3 Setup of the Category J IM/IT Equipment will not commence until all the following conditions met and provided by the Design-Builder:
  - 1.10.3.1 Systems Furniture, Furniture, Clinical Systems Furniture, Millwork, and all other types of furniture (with all associated cable management) is installed and cleaned;
  - 1.10.3.2 Related Category K IM/IT Equipment is Installed;
  - 1.10.3.3 Power is provided at the IM/IT Equipment location in accordance with the requirements in this Agreement and 1.12 in this Appendix;
  - 1.10.3.4 Structured Cabling and Telecommunications Outlet (TOs) that will be used by the IM/IT Equipment is terminated, tested and labelled. Refer to the Communications (Division 27) Section of Schedule 1 [Statement of Requirements] for further details;
  - 1.10.3.5 The Communications Room associated with the work area where the IM/IT Equipment resides is considered IM/IT Equipment ready. Refer to the Communications (Division 27) Section of Schedule 1 [Statement of Requirements] for further details; and
  - 1.10.3.6 IM/IT Data and Voice Network is fully commissioned.

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Indicative Equipment List of Category J IM/IT Equipment:

General Item	General item description	Quantity	Sample Make/Model
Computer Workstation	Computer Workstation consists of PC, thin client, laptop with docking station, etc. Computer Workstations typically come with monitor, keyboard and mouse. Many workstations will come with an additional monitor (dual monitored) Estimated quantity is 10% Laptops, 70% with dual monitors.	1545	<u>Workstations Dell make/models:</u> - Dell PC Optiplex 7080 Micro, LCD P2418Hzm 24", LCD P2418Hzm 24"  - Dell Laptop Latitude 7410, Dock Station WD19TB , LCD P2418Hzm 24", LCD P2418Hzm 24"
Phone	Standard desk, reception, conference phone. Some attached to wall using wall mounts (IM/IT Equipment Category K).	1460	- Desk phone Cisco 7841 - Reception Phone Cisco 8851 - Conference Lync Edition Real PresenceTrio 8800 - Wall mounted SL Phone Cisco 6901 & 7841
Printer	Printers, multi-functional desktop and floor models. Dimensions vary based on functionality. Estimated floor model quantity is 15%.	270	<u>Desktop Model:</u> - HP LaserJet Managed Flow MFP E52645c, Desktop, Max Dimensions W x D x H (in) 20 x 25 x 25  - HP LaserJet Managed Flow MFP E62665h, Desktop, Max Dimensions W x D x H (in) 40 x 31 x 40  <u>Floor Models:</u> - HP LaserJet M725z (b/w), Dimensions W x D x H (in) 37 x 41 x 47 - HP LaserJet M775z (color) Dimensions W x D x H (in) 40 x 46 x 61 - HP LaserJet Manage Flow MFP E82540z, Max Dimensions W x D x H (in) 100 x 29 x 44
Label Printer	Networked label printers.	223	Datamax Label Printer I-Class Mark II Datamax Label Printer E-Class Mark III
Computer Workstation - Moveable Cart	Various carts with PC, laptops, thin clients, scanners, bar code readers, printers, etc., affixed to the cart.	273	Ergotron SV41-6300-0 cart
Miscellaneous Computer Device	Other devices such as scanners, dictation units, tablets, virtual health devices etc. Can be attached to Computer Workstations. Can be networked attached. Can be attached to wall using wall mounts (IM/IT Equipment Category K).	230	Cybernet S22 medical all-in-one Label Writer-Dymo 450 Turbo FI-7160 Fujitsu Document Scanner Latitude 7210 Tablet with WWAN (LTE) IPAD MY2H2VC/A: Apple iPad Pro 12.9 " Pro 128GB, Wi-Fi 4th generation, tablet



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### 1.11 Category K IM/IT Equipment

- 1.11.1 The Authority will Procure and Deliver the Category K IM/IT Equipment;
- 1.11.2 The Design-Builder will Install the Category K IM/IT Equipment;
- 1.11.3 The Design-Builder is to provide seismic restraint and anchorage for all Category K IM/IT Equipment for Installation in a manner compliant with the BCBC for a post-disaster Facility. Each instance of seismic restraint and anchorage of Category K IM/IT Equipment will be reviewed by a professional seismic engineer registered in British Columbia for certification as being seismically restrained in accordance the BCBC for a post-disaster Facility;
- 1.11.4 Indicative Equipment List of Category K IM/IT Equipment:

General item description	Further item description	Quantity	Sample Make/Model
Display Monitor - Wall and/or Ceiling Mount	Wall/ceiling mount require wall backing / seismic supports. Wall/ceiling mount type dependent on functional use.	119	Type to be determined.
Computer Workstation – Wall Mount	Wall mount require wall backing / seismic supports. Wall mount type dependent on functional use and Computer Workstation and/or Miscellaneous Computer Device.	155	<u>Open Wall mount:</u> - GCX -VHM-P  <u>Closed Wall mount:</u> - Ergotron -eNook® Pro,
Telephone – Wall Mount	Wall mount brackets for single and multiline phones. Estimated quantity is 15% of the total phones.	219	Wall mount bracket for a Cisco 6901 and 7841.
Display Monitor	Range of Ultra HD digital display monitor sizes. Large sizes for displaying clinical workflow and operations computer application type information. Small sizes for displaying room and/or patient situational information such as clinical care indicators outside patient rooms, “my stay” information in patient rooms, and general information outside meeting rooms, in waiting areas, staff areas throughout the Facility. Dimensions vary based on functionality. Attached to wall/ceiling using wall/ceiling mounts (IM/IT Equipment Category K).	119	Size to be determined.  Large size approximately 55” or more.

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1.12 IM/IT Equipment power

1.12.1 The Design-Builder will:

- 1.12.1.1 Provide Clinical UPS duplex receptacles for the following IM/IT Equipment:
  - 1.12.1.1(1) One (1) PC, one (1) multifunction printer and the two (2) label printers at each Care Team Station;
  - 1.12.1.1(2) All PACS diagnostic workstations in the Facility; and
  - 1.12.1.1(3) Other equipment as identified by the Authority during the Review Procedure.
- 1.12.1.2 Provide vital power to all IM/IT Equipment not on the Clinical UPS branch of power and in accordance with 1.12.1.6;
- 1.12.1.3 Provide power in accordance with the IM/IT Equipment manufacturer’s specifications and requirements;
- 1.12.1.4 Collocate power receptacles and TOs in such a manner to allow bundling of cables/wires connecting IM/IT Equipment from collocated power receptacles and TO’s to the IM/T Equipment final location in a manner to minimize gaps between bundled wires/cables and minimize exposed wires/cables from being caught/snagged by persons/moveable equipment; and
- 1.12.1.5 Provide the following power receptacle requirements in consultation with the Authority. Specific height, quantity, recess, and power/UPS branch to be determined in consultation with the Authority during the Review Procedure:

<b>General item description</b>	<b>Installation location</b>	<b>Power / Receptacle for each item (e.g. at each Computer Workstation, Printer etc.)</b>
Computer Workstation	Top surface of desk, table, Millwork, Systems Furniture, Clinical Systems Furniture, Furniture.	Two (2) vital duplex receptacle and/or Clinical UPS receptacle below the counter (at standard height), and one (1) conditional duplex receptacle above the counter at a height coordinated with the furniture/millwork.
Computer Workstation	Category K IM/IT Equipment mounted.	One (1) vital duplex receptacle and/or Clinical UPS receptacle.
Computer Workstation	Boom mounted.	One (1) vital duplex receptacle and/or Clinical UPS receptacle.
Computer Workstation - Moveable Cart	Permanent and/or temporary parked cart locations.	One (1) vital duplex receptacle.
Display Monitor	Category K IM/IT Equipment mounted.	Two (2) vital duplex receptacle behind Display Monitor.
Printer	Top surface of desk, table, Millwork, Systems Furniture, Clinical Systems Furniture, Furniture.	One (1) vital duplex receptacle and/or Clinical UPS receptacle.

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General item description	Installation location	Power / Receptacle for each item (e.g. at each Computer Workstation, Printer etc.)
	Floor standing.	
Miscellaneous Computer Device	Top surface of desk, table, Millwork, Systems Furniture, Clinical Systems Furniture, Furniture.  Floor standing.  Category K IM/IT Equipment mounted.	One (1) vital duplex receptacle and/or Clinical UPS receptacle.