

Project Title:	Addendum No.:
Stanley Knowles Fit-Up	1
Project Location:	Project Number:
391 York Avenue Winnipeg, MB	R.056754.002
Consultant's Name	Date:
Prairie Architects Inc.	January 13, 2014

The following changes in the bid documents are effective immediately. The addendum will form part of the contract documents

Drawings

ARCHITECTURAL:

1. A2-00 Basement – Existing/Demolition and Proposed Plan
 1. **Modify** new Keynote 3 by adding the following text to the end of the note:
“Extend to underside of structure above, approx. 3600 mm above floor. Coordinate with existing structure, pipes, and other obstructions to provide continuous separation.”
2. A2-02 Main Floor – Proposed Plan
 2. **Add** new Keynote 19 to all window areas along the west, south and east exterior walls of the Main Floor: “Provide new roll-down blinds. Window height 2400 mm. Locations of windows are as shown graphically on the current plan, and for clarification extend: On the west and east sides from midway between Gridlines C and D, to midway between Gridlines E and F; on the south side the full width of the project spaces along Gridline F1, and extend north to Gridline F on the east and west ends.”
 3. **Add** new Keynote 20 to all window areas along the north side of the Main Floor: “Provide new roll-down blinds. Window height 1800 mm. Locations of windows are as shown graphically on the current plan, and for clarification extend: from east of Gridline 1, east to the edge of Existing Stair 2; from Gridline 5 to Gridline 6; from Gridline 7 to Gridline 8, and from the east edge of Existing Stair 3, to west of Gridline 12.”
 4. **Add** new Keynote 22: “Provide new millwork tops to all existing file cabinets. Refer to Move Coordination (MC) Drawings for quantities and locations of cabinets.”
 5. Corridor 106: **Add** Keynote 5, identifying new millwork as in contract, at south wall, and **modify** Millwork to be shown solid, not grey, to correspond to information already contained in Interior Elevation drawings.
 6. FNIB Health Lab 122: **Add** Keynote 5, identifying new millwork as in contract, at south wall, and **modify** Millwork to be shown solid, not grey, to correspond to information already contained in Interior Elevation drawings.
 7. Lunchroom 124: **Modify** Millwork at Keynote 5 to be shown solid, not grey, as this millwork is in contract as per Keynote text.
 8. See attached Drawing DA-01 for locations of items 4, 5 and 6.
 9. **Modify/Rename** Existing Janitors Room 138 to 138EX, and room to this door to D-138EX.
3. A2-04 Second Floor – Existing/Demolition Plan
 1. **Modify** (reduce) extent of existing corridor wall to be demolished, along Gridline

- 7 between Gridlines C and D. See attached partial plan DA-02.
2. **Modify** keynotes along existing corridor wall along Gridline 7, from Gridline A to south of Gridline D, as per attached partial plan DA-02.
4. A2-05 Second Floor – Proposed Plan
3. **Add** new Keynote 19 to all window areas along the south and east sides of the Second Floor: “Provide new roll-down blinds. Window height 2400 mm. Locations of windows are as shown graphically on the current plan, and for clarification extend: On the west and east sides from midway between Gridlines C and D, to midway between Gridlines E and F; on the south side the full width of the project space along Gridline F1, from east of Existing Stair 1 to Gridline 11A.
 4. **Add** new Keynote 20 to all window areas along the north wall, east of Gridline 7: “Provide new roll-down blinds. Window height 1800 mm. Locations of windows are as shown graphically on the current plan, and for clarification extend from Gridline 7 to Gridline 12.”
 5. **Add** new Keynote 21: “New blinds not required, North Lobby 209 only.”
 6. **Add** new Keynote 22: “Provide new millwork tops to all existing file cabinets. Refer to Move Coordination (MC) Drawings for quantities and locations of cabinets.”
 7. Immunization 222, and Lunchroom 234: **Add** Keynote 5, identifying new millwork as in contract, at west wall, and **modify** Millwork to be shown solid, not grey, to correspond to information already contained in Interior Elevation drawings.
 8. Clinical Testing 223: **Add** Keynote 5, identifying new millwork as in contract, at east wall, and **modify** Millwork to be shown solid, not grey, to correspond to information already contained in Interior Elevation drawings.
 9. Fit to Work 225: **Add** Keynote 5, identifying new millwork as in contract, west and south walls, and **modify** Millwork to be shown solid, not grey, to correspond to information already contained in Interior Elevation drawings.
 10. See attached Drawing DA-03 for locations of items 7, 8 and 9.
 11. Doors D-226, D-227, D-229, D-242, D-251, D-255, D-256, D-257: **Add** Keynote 6, to correspond to Door Schedule.
 12. **Delete** Door D-235A.
 13. **Modify** Door D-248, with frame to not include sidelight. See also revisions to Door Schedule, issued as part of this Addendum.
 14. **Delete** Room Names and Numbers in west portion of building, from Gridline 6 to west. These areas are outside of project scope, as per note on plan.
5. A5-01 Interior Elevations and Millwork Details
1. **Modify** Keynote 12, by adding the wording “Opening dimensions to be 1200 x 1200.”
 2. **Add** new Keynote 21: “Millwork vanity with lavatory.”
 3. **Modify** Drawing 11/A5-01, North Elevation, to include Keynote 21.
 4. **Add** Section 13/A5-01: “Millwork Detail: Vanity at Lavatory,” included with this Addendum as Drawing DA-04.
 5. **Add** note “Valence Lighting” to Sections A, B, C, D, E, F and H, to correspond to notes on plans identifying this requirement.
6. A5-02 Main Floor – Proposed Floor Pattern
1. Rooms 113, 124, and 143: **Delete** graphic indication of carpet tile. Flooring in these spaces is to be as per Room Finish Schedule.

7. A5-03 Second Floor – Proposed Floor Pattern

1. Room 243: **Delete** graphic indication of carpet tile. Flooring in this space is to be as per Room Finish Schedule.

8. A6-01 Room Finish Schedule, Door Schedule and Details

1. Door Schedule: Notes: **Add** Note 6: “Reinforce aluminum frame 200 mm above and below door handle, at these doors only.”
2. Door Schedule: Door D-104C: **Modify** Notes column to “3 & 4.”
3. Door Schedule: Door D-105: **Modify** Notes column to “4.”
4. Door Schedule: Door D-131: **Modify** Notes column to “1.”
5. Door Schedule: Doors D-132A and D-132B: **Modify** Notes column to “4, 5 & 6.”
6. Door Schedule: Door D-137: **Modify** Hardware Code to “11.”
7. Door Schedule: Doors D-232 and D-253: **Modify** Hardware Code to “12.”
8. Door Schedule: Doors D-242 and D-247: **Modify** Notes column to “1.”
9. Door Schedule: Door D-248: **Modify** Frame Type to “A” and Notes column to “4, 5 & 6.”
10. Door Schedule: Door D-249: **Modify** Notes column to “1.”

9. MC-1A Main Floor Furniture Layout/Typical Workstations & Private Offices Layout

1. **Modify** Sheet Title to “Main Floor Move Coordination Plan.”
2. **Delete** “General Notes” in their entirety. Furniture procurement is not included in this contract, as per Legend note on Proposed Work Floor Plans A2-00, A2-02 and A2-05.
3. **Add** Keynote #5: “Provide new millwork tops to all existing file cabinets.” See also updates to Specifications Section 06 40 00, included in this Addendum, for description of requirements.

10. MC-1B Main Floor Furniture Layout/Typical Workstations & Private Offices Layout

1. **Modify** Sheet Title to “Main Floor Move Coordination Plan.”
2. **Delete** “General Notes” in their entirety. Furniture procurement is not included in this contract, as per Legend note on Proposed Work Floor Plans A2-00, A2-02 and A2-05.
3. **Add** Keynote #5: “Provide new millwork tops to all existing file cabinets.” See also updates to Specifications, included in this Addendum, for description of requirements.

11. MC-2 Second Floor Furniture Layout/Typical Workstations & Private Offices Layout

1. **Modify** Sheet Title to “Second Floor Move Coordination Plan.”
2. **Delete** “General Notes” in their entirety.
3. **Add** Keynote #5: “Provide new millwork tops to all existing file cabinets.” See also updates to Specifications, included in this Addendum, for description of requirements.
4. **Delete** Details 1/MC-2 “Typical Workstation Layout,” and 2/MC-2 “Typical Workstation (16 sq.ft.).”
5. **Delete** “Legend” in its entirety.

ELECTRICAL:

1.1 E1-03 Second Floor – Lighting Demolition

- .1 Office S50, S51 and S52; **Revise** Light Fixture tags from ‘ES’ to ‘EX’. The ceilings are not going to be replaced and therefore the fixtures do not need to be removed and reinstalled.

- .2 Gridline C and 11; **Revise** light fixture tag from 'EX' to 'ES'. The ceiling is being removed and therefore the fixture needs to be removed and reinstalled.
- 1.2 E3-03 Second Floor - Lighting Layout
 - .1 Leadership 249; **Provide** two (2) new dimmable light fixture in this office. Fixtures to be Metalux 2GR8-232-A-347-5LVT8-1. **Provide** LV dimmable switch.
- 1.3 E4-01 Basement – Power Layout
 - .1 Exist PHAC Store B23G; **Remove** four (4) voice data symbols. These are shown on drawing E6-01.
 - .2 Pesticide Compliance B13; **Remove** two (2) voice data symbols. There are shown on drawing E6-01
- 1.4 E4-02 Main Floor – Power Layout
 - .1 Leadership (USS) 131;
 - .1 Three (3) receptacle without circuit. Circuit receptacles to MB3-17, MB3-18 and MB3-19. **Run** circuits from receptacles to panel 'MB3' in conduit.
 - .2 **Revise** two (2) receptacles with circuit MB3-8. Receptacles to be 20 amp, 120 volt. Provide 2 new separate circuits from panel MB3 (MB#-20 and MB3-21) and provide new 20A-1P circuit breakers in panel 'MB3'. Each receptacle to be on its own circuit.
 - .2 Leadership 138; **relocate** one receptacle, circuit MA2-6 from east wall to south wall.
- 1.5 E4-03 Second Floor – Power Layout
 - .1 Immunization 222; **Relocate** receptacle 'FD' from south wall to north wall. Circuit receptacle to BE2-10 and provide 15A-1P circuit breaker in Panel 'BE2'.
 - .2 Clinical Testing 223; **Relocate** receptacle 'FD' to Immunization 222 and locate on north wall. Circuit receptacle to BE2-11 and **provide** 15A-1P circuit breaker in Panel 'BE2'.
 - .3 Leadership 247; **Relocate** Video Conference outlets to east wall.
 - .4 EPR Coordinator 248; **Relocate** Video Conference outlets to east wall.
 - .5 Leadership (U.S.S.) 249; **remove** receptacle on west wall with circuit 2A2-10.
 - .6 Leadership 226; **relocate** one receptacle from east wall to west wall, intended to be across from the desk.
 - .7 Leadership 227; **relocate** one receptacle from east wall to west wall, intended to be across from the desk.
 - .8 Gridline 11 and B; RTU-1.N is located on the roof of the 4 level at this location.
- 1.6 E5-02 Main Floor – Systems Layout
 - .1 Entire drawing; **remove** all references to the CCTV system. The addition of a new CCTV system and relocation of existing base building CCTV cameras is to be completely removed from this contract. Existing base building CCTV cameras, within the renovated space, are to be **removed** and turned over to the Departmental Representative. **Remove** wiring and conduit associated with existing CCTV cameras is to be removed back to source (Front security desk – Front Lobby).
- 1.7 E5-03 Second Floor – System Layout
 - .1 Entire drawing; **remove** all references to the CCTV system. The addition of a new CCTV system and relocation of existing base building CCTV

cameras is to be completely removed from this contract. Existing base building CCTV cameras, within the renovated space, are to be **removed** and turned over to the Departmental Representative. **Remove** wiring and conduit associated with existing CCTV cameras is to be removed back to source (Front security desk – Front Lobby).

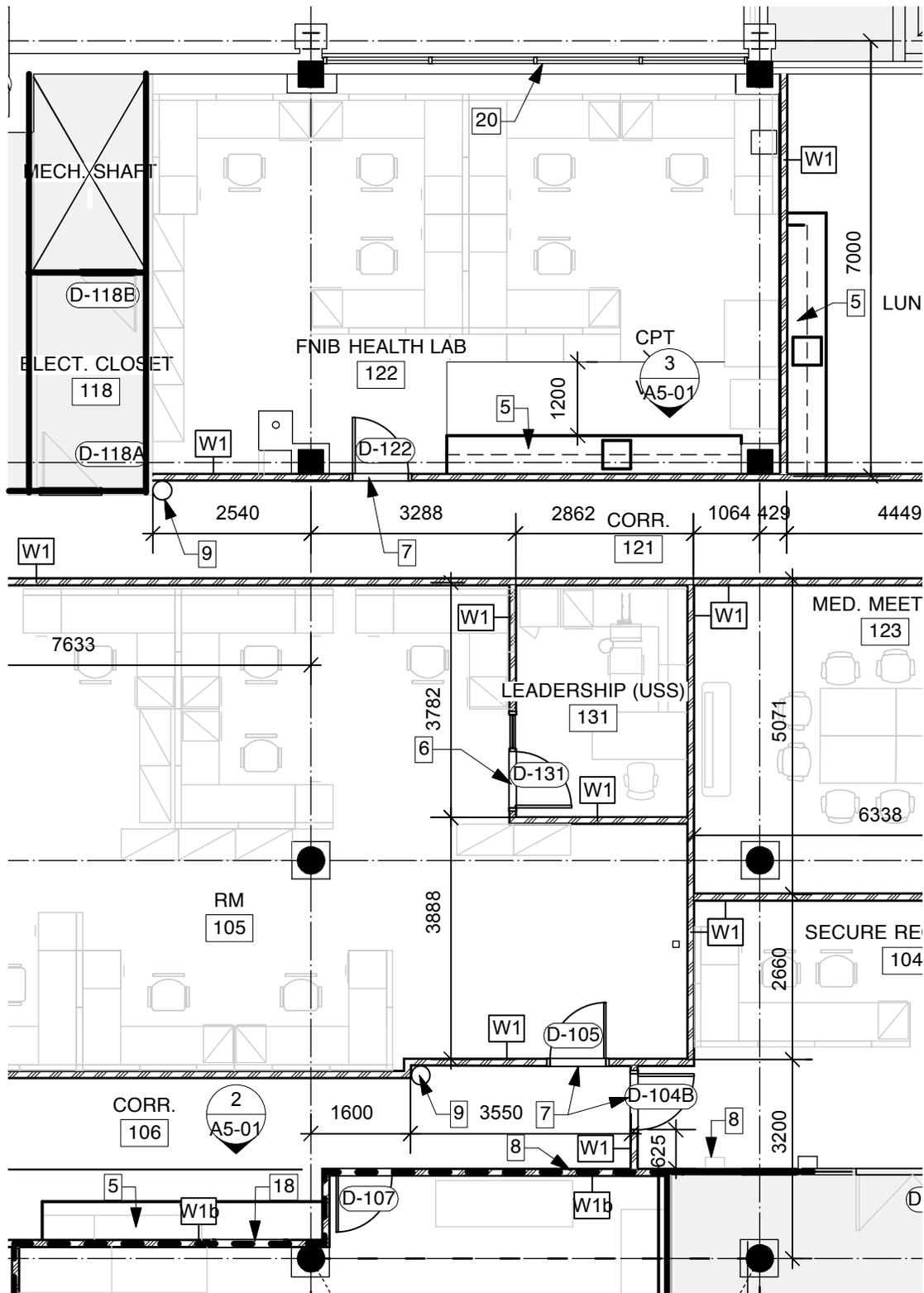
- .2 Entire drawing; **Add** Card access door contacts to doors D-221A, D-221B, D-231, D241, D233 and D239. Run conductors back to intrusion system. Add expanded panels as required.
 - .3 Waiting 221; **Provide** Card Access to doors D-221A and D-221B. Run conductors back to Card Access system located in Electrical Room S13. Provide additional door modules to system.
 - .4 Lunchroom 234; **Provide** Card Access to door D-234. Run conductors back to Card Access system located in electrical room S13. Provide additional door modules to system.
 - .5 Corr 233; **Provide** Card Access to door D-233. Run conductors back to Card Access system located in electrical room S13. Provide additional door modules to system.
 - .6 Corr 239; **Provide** Card Access to door D-239. Run conductors back to Card Access system located in electrical room S13. Provide additional door modules to system.
- 1.8 E6-02 Main Floor – Communications Layout
- .1 Leadership (USS) 131;
 - .1 **Remove** video conference outlet on south wall.
 - .2 **Add** one (1) Voice/Data outlet with four (4) Cat 6 cable. One for omni phone, one for fax, one for regular phone external internet. Cable to go back to telecom 143.
 - .2 Emergency Control Centre 132; **Add** four additional data outlets and run CAT 6 cable back to telecom 143. These outlets are for external internet. Coordinate exact location prior to installation.
 - .3 Gridlines 10 and D; **Add** data outlet with CAT6 cable back to Telecom 143 for external internet.
 - .4 Leadership 138; **Relocate** video conference data outlet from east wall to south wall.
 - .5 Leadership 133; **Relocate** video conference data outlet from west wall to east wall.
- 1.9 E6-03 Second Floor – Communication Layout
- .1 Existing Communication Room is located at Gridline E and 7.
 - .2 Leadership 247; **Relocate** video conference data outlet from Leadership (USS) 249 to east wall of Leadership 247.
 - .3 EPR Coordinator;
 - .1 **Relocate** video conference data outlet from west wall to east wall
 - .2 **Add** data outlet and run CAT6 cable back to communications room for external internet. Coordinate exact location with Departmental Representative prior to installation.
 - .4 Gridline 10 and D; **Add** data outlet and run CAT6 cable back to communications room for external internet. Outlet is intended for open area desk nearest gridline 10.
 - .5 Gridline 11 and F; **Add** data outlet and run CAT6 cable back to communications room for external internet. Coordinate exact location with Departmental Representative prior to installation.
 - .6 Leadership 226; **Relocate** video conference outlet from south wall to west

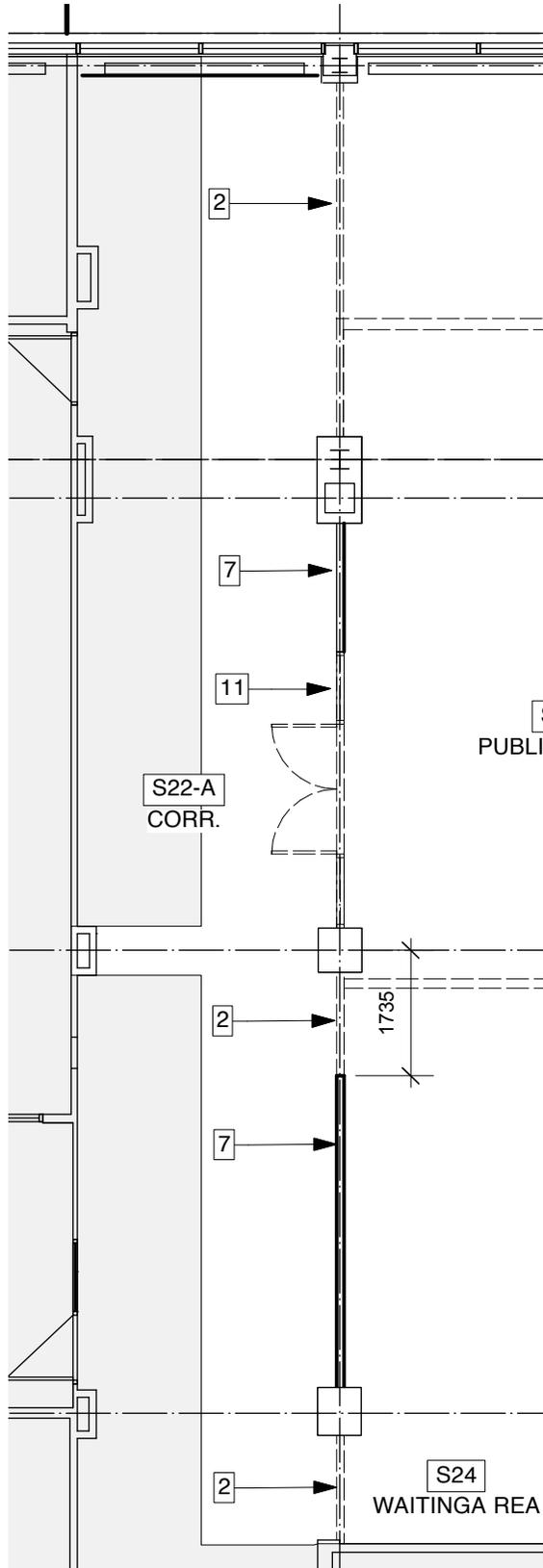
- wall. Coordinate exact location with Departmental representative prior to installation.
- .7 Leadership 227; **Relocate** video conference outlet from south wall to west wall. Coordinate exact location with Departmental representative prior to installation.
- 1.10 E7-04 Schedules
- .1 Panel 'BE2'; **Revise** panel from 225A, 120/208V, 3 ϕ , 4W, 42 CCT to 400A, 120/208V, 3 ϕ , 4W, 84 CCT.
- 1.11 E8-01 Single Line Diagram
- .1 **Revise** feeders to Transfer Switch TS-2 from 4#3 CU to 3#3 CU.
- .2 **Revise** feeders to Transformer TR-BE2 from 4#3 CU to 3#3 CU.
- .3 **Revise** feeders to Panel 'BE2' from 4-300KCMIL TECK to 4-300 RW90 in 78mm C.
- 1.12 E8-02 Systems Riser Diagram
- .1 **Remove** Detail 1
- .2 **Remove** Detail 2

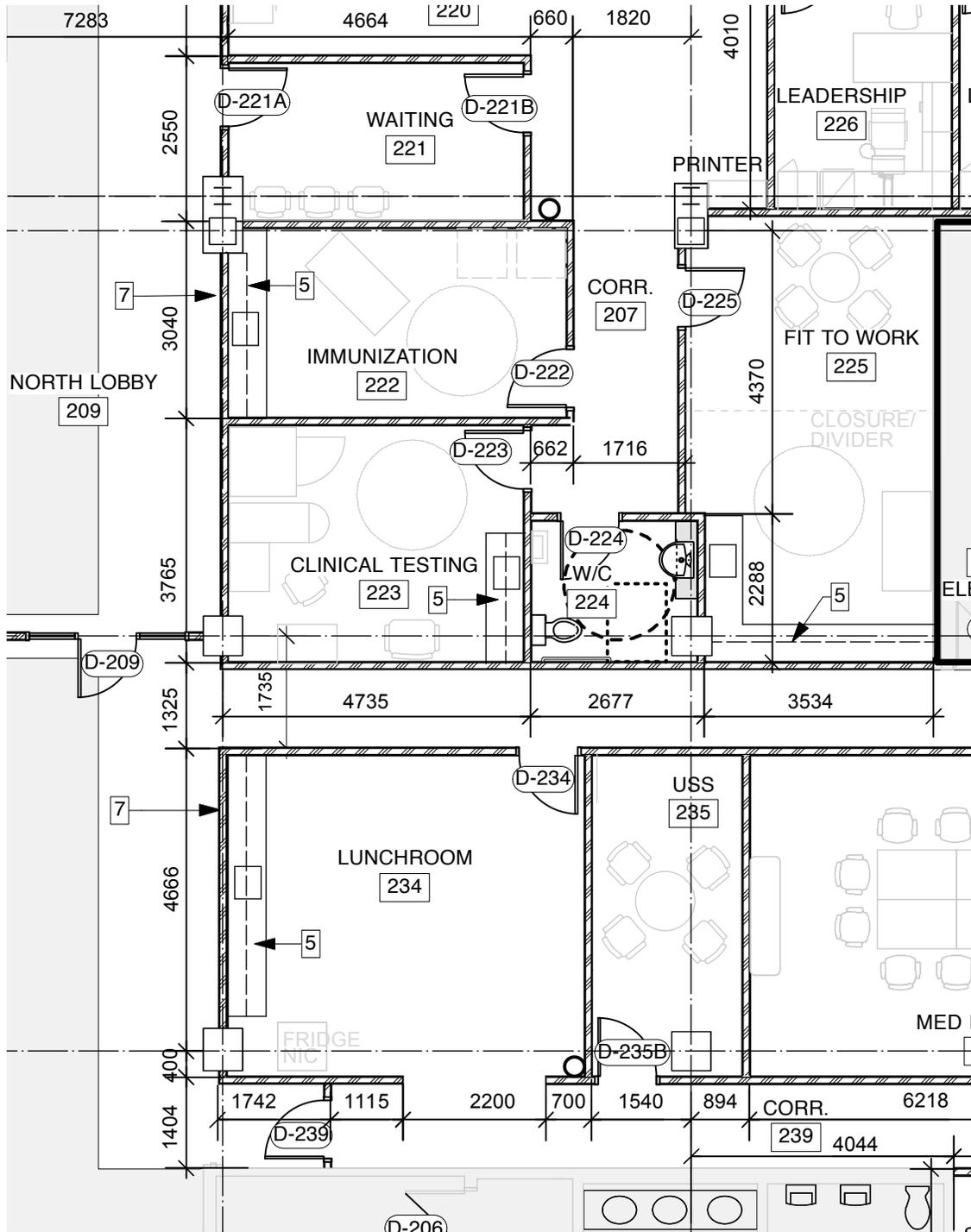
Specifications

1. Section 00 01 10 – Table of Contents
 1. **Add** Section 01 11 00 – Summary of Work.
2. Section 01 11 00 – Summary of Work
 1. **Add** entire section, as included with this Addendum.
3. Section 06 40 00 – Architectural Woodwork
 1. **Add** item 2.2.4, New Millwork Tops for Existing File Cabinets, as per the revised section included with this Addendum.
4. Section 08 71 00 – Door Hardware
 1. **Add** Hardware Sets 11 and 12 to item 3.6 Schedule, as per revised section included with this Addendum.
5. Section 10 99 90 – Miscellaneous Specialties
 1. **Modify** item 2.1.3.6.1, Materials/ Toilet and Bath Accessories/ Components/ Paper-towel dispenser, to identify requirements for hands-free dispenser;
 2. **Modify** item 2.1.3.6.3, Materials/ Toilet and Bath Accessories/Components/Soap dispenser, to identify requirements for automatic dispenser;
 3. **Modify** numbering system within section 2.1, to identify "Panel System" as 2.1.6, and Transaction Counter Hardware as 2.1.7;
 4. **Add** item 2.1.8, Water Coolers, all as per revised section included with this Addendum.

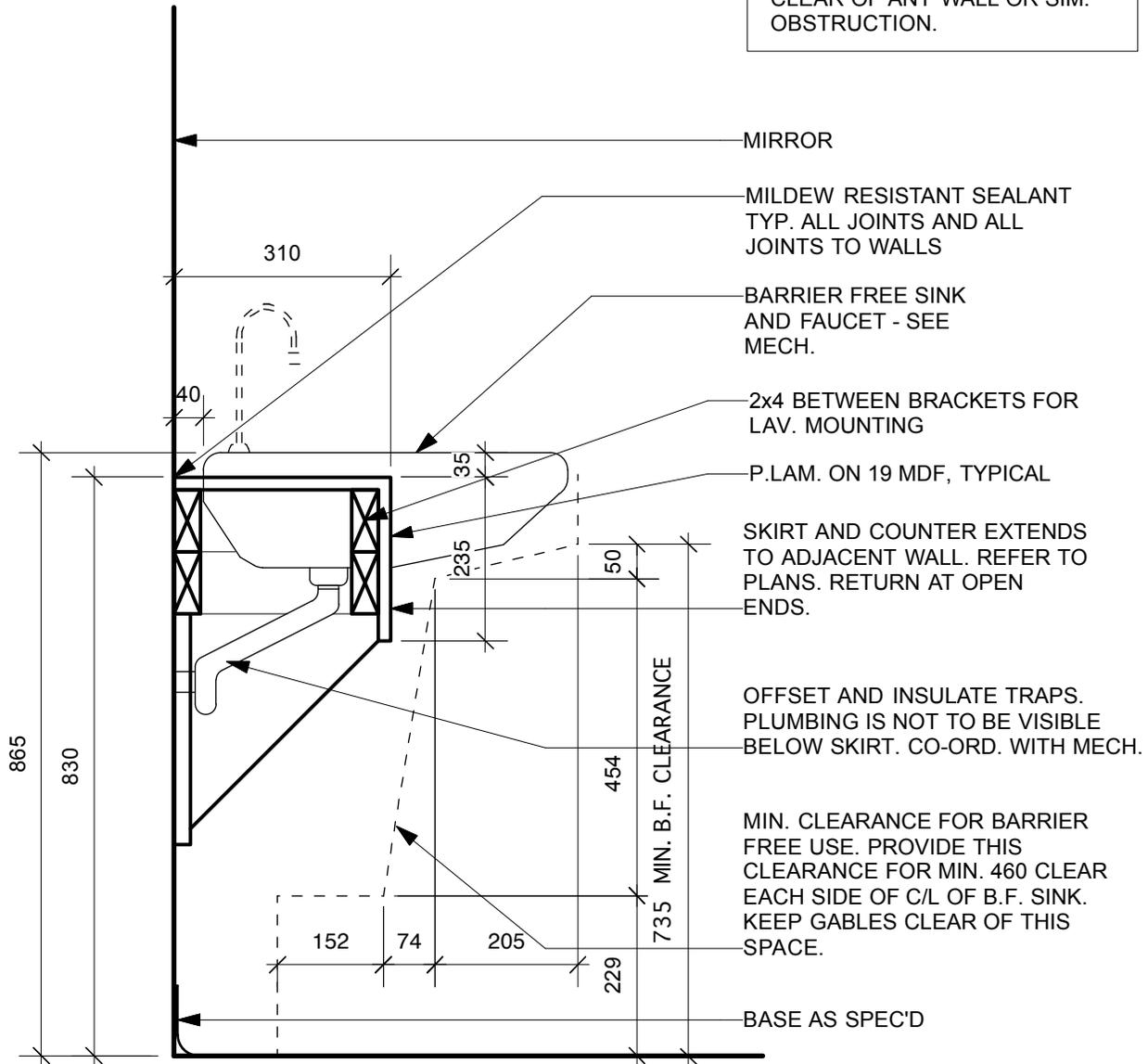
End of Addendum #1 Text







NOTE:
 -PROVIDE BF CLEARANCE AS SHOWN
 -C/L OF SINK TO BE MIN. 460 CLEAR OF ANY WALL OR SIM. OBSTRUCTION.



PART 1 - GENERAL

1.1 WORK COVERED BY
CONTRACT DOCUMENTS

- .1 Work of this Contract comprises renovation of selected areas of the Stanley Knowles Building, located at 391 York Avenue; and further identified in the drawing set.

1.2 CONTRACT METHOD

- .1 Construct Work under single, stipulated price contract.
- .2 Relations and responsibilities between Contractor and subcontractors and suppliers subcontractors assigned by Owner are as defined in Conditions of Contract. Assigned Subcontractors must, in addition:
 - .1 Furnish to Contractor, bonds covering faithful performance of subcontracted work and payment of obligations thereunder when Contractor is required to furnish such bonds to Departmental Representative.
 - .2 Purchase and maintain liability insurance to protect Contractor from claims for not less than limits of liability which Contractor is required to provide to Departmental Representative.

1.3 WORK BY OTHERS

- .1 Co-operate with other Contractors in carrying out their respective works and carry out instructions from Departmental Representative.
- .2 Co-ordinate work with that of other Contractors. If any part of work under this Contract depends for its proper execution or result upon work of another Contractor, report promptly to Departmental Representative, in writing, any defects which may interfere with proper execution of Work.
- .3 Work of Project executed during Work of this Contract, and which is specifically excluded from this Contract:
 - .1 Supply and install of new furniture.
 - .2 Supply and install of mobile filing.

1.4 CONTRACTOR USE
OF PREMISES

- .1 Limit use of premises for Work, for storage, and for access, to allow:
 - .1 Partial owner occupancy of building.
 - .2 Work by other contractors.
 - .3 Public usage of remainder of building.

- .2 Co-ordinate use of premises under direction of Departmental Representative.
- .3 Obtain and pay for use of additional storage or work areas if needed for operations under this Contract.
- .4 Remove or alter existing work to prevent injury or damage to portions of existing work which remain.
- .5 Repair or replace portions of existing work which have been altered during construction operations to match existing or adjoining work, as directed by Departmental Representative.
- .6 At completion of operations condition of existing work: equal to or better than that which existed before new work started.

1.5 OWNER OCCUPANCY

- .1 Owner will occupy building premises during entire construction period for execution of normal operations.
- .2 Project scope area is unoccupied.
- .3 Co-operate with Owner in scheduling operations to minimize conflict and to facilitate Owner usage.

1.6 OWNER
FURNISHED ITEMS

- .1 Owner Responsibilities:
 - .1 Arrange for delivery of shop drawings, product data, samples, manufacturer's instructions, and certificates to Contractor.
 - .2 Deliver supplier's bill of materials to Contractor.
 - .3 Arrange and pay for delivery to site in accordance with Progress Schedule, excluding existing furniture and equipment identified in the Move Coordination drawings as required to be moved under contract.
 - .4 Inspect deliveries jointly with Contractor.
 - .5 Submit claims for transportation damage.
 - .6 Arrange for replacement of damaged, defective or missing items.
 - .7 Arrange for manufacturer's field services; arrange for and deliver manufacturer's warranties and bonds to Contractor.
- .2 Contractor Responsibilities:
 - .1 Designate submittals and delivery date for each product in progress schedule.
 - .2 Review shop drawings, product data, samples, and other submittals. Submit to Consultant

notification of observed discrepancies or problems anticipated due to non-conformance with Contract Documents or site conditions.

.3 Remove existing furniture from existing tenant office locations, as identified in the Move Coordination Drawings, deliver to and install on site.

.4 Receive and unload products at site.

.5 Inspect deliveries jointly with Owner; record shortages, and damaged or defective items.

.6 Handle products at site, including uncrating and storage.

.7 Protect products from damage, and from exposure to elements.

.8 Assemble, install, connect, adjust, and finish products.

.9 Provide installation inspections required by public authorities.

.10 Repair or replace items damaged by Contractor or subcontractor on site (under his control) or during transit.

.3 Schedule of Owner furnished items:

.1 New furniture and equipment to be delivered and installed by others.

.2 Existing furniture and equipment to be moved and installed on site under this contract, as identified in Move Coordination drawings and in accordance with specification section 10 90 00 - Move Coordination.

1.7 ALTERATIONS,
ADDITIONS OR
REPAIRS TO EXISTING
BUILDING

.1 Execute work with least possible interference or disturbance to building operations, occupants, public and normal use of premises. Arrange with Departmental Representative to facilitate execution of work.

.2 Use only elevators existing in building for moving workers and material.

.1 Protect walls of passenger elevators, to approval of Departmental Representative prior to use.

.2 Accept liability for damage, safety of equipment and overloading of existing equipment.

1.8 EXISTING
SERVICES

.1 Notify Departmental Representative and utility companies of intended interruption of services and obtain required permission.

.2 Where Work involves breaking into or connecting to existing services, give Departmental Representative 48 hours notice for necessary interruption of mechanical or electrical service throughout course of work. Minimize duration of interruptions. Carry

out work at times as directed by governing authorities with minimum disturbance to pedestrian vehicular traffic and tenant operations.

- .3 Provide alternative routes for personnel pedestrian and vehicular traffic, when necessary.
- .4 Establish location and extent of service lines in area of work before starting Work. Notify Departmental Representative of findings.
- .5 Submit schedule to and obtain approval from Departmental Representative for any shut-down or closure of active service or facility including power and communications services. Adhere to approved schedule and provide notice to affected parties.
- .6 Provide temporary services when directed by Departmental Representative to maintain critical building and tenant systems.
- .7 Where unknown services are encountered, immediately advise Departmental Representative and confirm findings in writing.
- .8 Protect, relocate or maintain existing active services. When inactive services are encountered, cap off in manner approved by authorities having jurisdiction.
- .9 Record locations of maintained, re-routed and abandoned service lines.
- .10 Construct barriers in accordance with Section 01 56 00 - Temporary Barriers and Enclosures.

1.9 DOCUMENTS
REQUIRED

- .1 Maintain at job site, one copy each document as follows:
 - .1 Contract Drawings.
 - .2 Specifications.
 - .3 Addenda.
 - .4 Reviewed Shop Drawings.
 - .5 List of Outstanding Shop Drawings.
 - .6 Change Orders.
 - .7 Other Modifications to Contract.
 - .8 Field Test Reports.
 - .9 Copy of Approved Work Schedule.
 - .10 Health and Safety Plan and Other Safety Related Documents.
 - .11 Other documents as specified.

Project No.:
R.056754.002

SUMMARY OF WORK

Section 01 11 00
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PART 2 - PRODUCTS

2.1 NOT USED .1 Not used.

PART 3 - EXECUTION

3.1 NOT USED .1 Not used.

END OF SECTION

PART 1 - GENERAL

1.1 REFERENCES

- .1 American National Standards Institute (ANSI)
 - .1 ANSI A208.1-09, Particleboard.
 - .2 ANSI A208.2-09, Medium Density Fiberboard (MDF) for Interior Applications.
 - .3 ANSI/HPVA HP-1-10, Standard for Hardwood and Decorative Plywood.

- .2 ASTM International
 - .1 ASTM E 1333-10, Standard Test Method for Determining Formaldehyde Concentrations in Air and Emission Rates From Wood Products Using a Large Chamber.
 - .2 ASTM D 2832-92(R2011), Standard Guide for Determining Volatile and Nonvolatile Content of Paint and Related Coatings.
 - .3 ASTM D 5116-10, Standard Guide For Small-Scale Environmental Chamber Determinations of Organic Emissions From Indoor Materials/Products.

- .3 Architectural Woodwork Manufacturers Association of Canada (AWMAC) and Architectural Woodwork Institute (AWI)
 - .1 Architectural Woodwork Quality Standards Illustrated, 8th edition, Version 1.0 (2009).

- .4 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-71.20-M88, Adhesive, Contact, Brushable.

- .5 CSA International
 - .1 CSA B111-74(R2003), Wire Nails, Spikes and Staples.
 - .2 CSA O112.10-08, Evaluation of Adhesives for Structural Wood Products (Limited Moisture Exposure).
 - .3 CSA O121-08, Douglas Fir Plywood.
 - .4 CSA O141-05(R2009), Softwood Lumber.
 - .5 CSA O151-09, Canadian Softwood Plywood.
 - .6 CSA O153-M1980(R2008), Poplar Plywood.
 - .7 CAN/CSA-Z809-08, Sustainable Forest Management.

- .6 Forest Stewardship Council (FSC)
 - .1 FSC-STD-01-001-2004, FSC Principle and Criteria for Forest Stewardship.

- .7 Green Seal Environmental Standards (GS)
 - .1 GS-11-11, Paints and Coatings.
 - .2 GS-36-11, Commercial Adhesives.

- .8 Health Canada/Workplace Hazardous Materials

Information System (WHMIS)

.1 Material Safety Data Sheets (MSDS).

- .9 International Organization for Standardization (ISO)
 - .1 ISO 14040-2006, Environmental Management-Life Cycle Assessment - Principles and Framework.
 - .2 ISO 14041-98, Environmental Management-Life Cycle Assessment - Goal and Scope Definition and Inventory Analysis.
- .10 National Electrical Manufacturers Association (NEMA)
 - .1 ANSI/NEMA LD-3-05, High-Pressure Decorative Laminates (HPDL).
- .11 National Hardwood Lumber Association (NHLA)
 - .1 Rules for the Measurement and Inspection of Hardwood and Cypress 2011.
- .12 National Lumber Grades Authority (NLGA)
 - .1 Standard Grading Rules for Canadian Lumber 2010.
- .13 South Coast Air Quality Management District (SCAQMD), California State, Regulation XI. Source Specific Standards
 - .1 SCAQMD Rule 1113-A2011, Architectural Coatings.
 - .2 SCAQMD Rule 1168-A2005, Adhesives and Sealants Applications.
- .14 Sustainable Forestry Initiative (SFI)
 - .1 SFI-2010-2014 Standard.

1.2 ACTION AND
INFORMATIONAL
SUBMITTALS

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
 - .1 Submit manufacturer's instructions, printed product literature and data sheets for architectural woodwork and include product characteristics, performance criteria, physical size, finish and limitations.
 - .2 Submit two copies of WHMIS MSDS in accordance with Health Canada/Workplace Hazardous Materials Information System.
- .3 Shop Drawings:
 - .1 Submit drawings stamped and signed by professional engineer registered or licensed in Province of Manitoba, Canada.
 - .2 Indicate details of construction, profiles, jointing, fastening and other related details.
 - .1 Scales: profiles full size, details

half full size.

.3 Indicate materials, thicknesses, finishes and hardware.

.4 Indicate locations of service outlets in casework, typical and special installation conditions, and connections, attachments, anchorage and location of exposed fastenings.

.4 Samples:

.1 Upon request, submit for review and acceptance of each unit.

.2 Upon request, submit duplicate samples of hardwood softwood plywood fibreboard OSB particleboard: sample size 1200 x 1200 mm or 1200 mm long.

.3 Upon request, submit duplicate samples of laminated plastic for colour selection.

.4 Upon request, submit duplicate samples of laminated plastic joints, edging, cutouts and postformed profiles.

.5 Certifications: submit certificates signed by manufacturer certifying that materials comply with specified performance characteristics and physical properties.

1.3 QUALITY ASSURANCE

.1 Lumber by grade stamp of an agency certified by Canadian Lumber Standards Accreditation Board.

.2 Sustainable Standards Certification:

.1 Certified Wood: submit listing of wood products and materials used in accordance with CAN/CSA-Z809 or FSC or SFI.

.3 Plywood, particleboard, OSB and wood based composite panels to CSA and ANSI standards.

1.4 DELIVERY, STORAGE AND HANDLING

.1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements and with manufacturer's written instructions.

.2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.

.1 Protect millwork against dampness and damage during and after delivery.

.2 Store millwork in ventilated areas, protected from extreme changes of temperature or humidity.

.3 Storage and Handling Requirements:

.1 Store materials off ground in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated

area.

.2 Store and protect architectural woodwork from nicks, scratches, and blemishes.

.3 Replace defective or damaged materials with new.

.4 Develop Waste Reduction Workplan related to Work of this Section and in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.

.5 Packaging Waste Management: remove for reuse and return by manufacturer of pallets, crates, padding, and packaging materials as specified in Waste Reduction Workplan in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 MDF (medium density fibreboard) core: to ANSI A208.2, Grade M-1 strength, density 769 kg/m³, CAN/CSA-Z809 or FSC or SFI certified.
- .1 Medium density fibreboard performance requirements to: ANSI A208.2.
 - .2 MDF resin to contain no added urea-formaldehyde.
- .2 Laminated Plastic for Flatwork: to NEMA LD3
- .1 Type: General Purpose
 - .2 Grade: HGS, VDS
 - .3 Size: .71 to 1.22 mm thick
 - .4 Colour: Multi-layered
 - .5 Pattern:
 - .1 PLAM-1: Standard of Acceptance:
 - .1 Wilsonart, #7209-K-78, Nepal Teak with fine grain premium finish
 - .2 Formica, #5481-43 Oiled Olivewood with Artisan finish
 - .3 Pionite, #HP360, Afternoon Showers with suede finish
 - .2 PLAM-2: Standard of Acceptance:
 - .1 Arborite, #P-375-CA, Morning Sleet with cashmere finish
 - .2 Wilsonart, #4928-38, Venetian Ivory with 38 finish
 - .3 Nevamar, #ES7001T, White Essence with textured finish
- .3 Thermofused Melamine: to NEMA LD3 Grade VGL.
- .1 High wear resistant thermofused melamine: equal or exceed 400 cycles (Minimum standard for HPL abrasion test).
- .4 Nails and staples: to CSA B111.

- .5 Wood screws: steel plain, type and size to suit application.
- .6 Splines: wood.
- .7 Sealant: in accordance with Section 07 92 00 - Joint Sealants.
 - .1 Sealants: VOC limit in accordance with Section 01 47 15 Sustainable Requirements: Construction.
- .8 Laminated plastic adhesive:
 - .1 Adhesive: Water base contact type with low or zero VOCs.
 - .2 Adhesives: VOC limit in accordance with Section 01 47 15 Sustainable Requirements: Construction.
 - .3 Clear Wood Finishes: VOC limit in accordance with Section 01 47 15 Sustainable Requirements: Construction.
 - .4 Paints: VOC limit in accordance with Section 01 47 15 Sustainable Requirements: Construction.

2.2 MANUFACTURED
UNITS

- .1 Casework:
 - .1 Fabricate caseworks to AWMAC custom quality grade.
 - .2 Furring, blocking, nailing strips, grounds and rough bucks and sleepers.
 - .1 S2S is acceptable.
 - .2 Board sizes: "standard" or better grade.
 - .3 Dimension sizes: "standard" light framing or better grade.
 - .4 Urea-formaldehyde free.
 - .3 Framing maple species, NLGA grade.
 - .4 Case bodies (ends, divisions and bottoms).
 - .1 MDF: Standard or better grade, 19mm thick
 - .6 Backs:
 - .1 Fibreboard, Medium Density Fibreboard, laminated with thermofused melamine, 19mm thick.
 - .7 Shelving:
 - .1 Particleboard, laminated with thermofused melamine, 19mm thick.
 - .2 Edge banding: provide strips same width as particleboard. Matching colour in 3 mm PVC or HPL wood.
- .2 Drawers:
 - .1 Fabricate drawers to AWMAC custom grade supplemented as follows:

- .2 Sides and Backs and Bottoms.
 - .1 Fibreboard: medium density fibreboard. Sides and backs to be 12mm thick, bottoms to be 6mm thick and covered in plastic laminate.
- .3 Fronts:
 - .1 Medium density fibreboard: 19mm thick, HPL.
- .3 Casework Doors:
 - .1 Fabricate doors to AWMAC custom grade supplemented as follows:
 - .2 Medium Density Fibreboard, laminated HPL grade M2, 19mm thick.
- .4 New millwork tops for existing file cabinets:
 - .1 Fabricate tops to AWMAC custom grade supplemented as follows:
 - .2 Medium Density Fibreboard, laminated HGS, 25mm thick, edged to match laminate. Colour to be selected by Consultant and approved by Departmental Representative.

2.3 FABRICATION

- .1 Set nails and countersink screws apply wood filler to indentations, sand smooth and leave ready to receive finish. On items to receive transparent or semi-transparent finishes, use wood filler to match surrounding surfaces and of a type recommended for applied finishes.
- .2 Shop install cabinet hardware for doors, shelves and drawers. Recess shelf standards unless noted otherwise.
- .3 Shelving to cabinetwork to be adjustable unless otherwise noted.
- .4 Provide cutouts for plumbing fixtures, inserts, appliances, outlet boxes and other fixtures.
- .5 Shop assemble work for delivery to site in size easily handled and to ensure passage through building openings.
- .6 Obtain governing dimensions before fabricating items which are to accommodate or abut appliances, equipment and other materials.

PART 3 - EXECUTION

3.1 EXAMINATION

- .1 Verification of Conditions: verify conditions of substrates previously installed under other Sections or Contracts are acceptable for architectural woodwork installation in accordance with manufacturer's instructions.
 - .1 Visually inspect substrate in presence of

Departmental Representative.

.2 Inform Departmental Representative of unacceptable conditions immediately upon discovery.

.3 Proceed with installation only after unacceptable conditions have been remedied and after receipt of written approval to proceed from Departmental Representative.

3.2 INSTALLATION

- .1 Do architectural woodwork to Quality Standards of AWMAC.
- .2 Install prefinished millwork at locations shown on drawings.
 - .1 Position accurately, level, plumb straight.
- .3 Fasten and anchor millwork securely.
 - .1 Supply and install heavy duty fixture attachments for wall mounted cabinets.
- .4 Use draw bolts in countertop joints.
- .5 Scribe and cut as required to fit abutting walls and to fit properly into recesses and to accommodate piping, columns, fixtures, outlets or other projecting, intersecting or penetrating objects, leaving gaps no greater than 1.5mm maximum.
- .6 Apply bituminous coating over wood framing members in contact with masonry or cementitious construction.
- .7 Fit hardware accurately and securely in accordance with manufacturer's written instructions.

3.3 CLEANING

- .1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning.
 - .1 Leave Work area clean at end of each day.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning.
 - .1 Clean millwork and cabinet work inside cupboards and drawers and outside surfaces.
 - .2 Remove excess glue from surfaces.
- .3 Waste Management: separate waste materials for reuse and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
 - .1 Remove recycling containers and bins from site and dispose of materials at appropriate facility.

3.4 PROTECTION

- .1 Protect millwork and cabinet work from damage until final inspection.
- .2 Protect installed products and components from damage during construction.
- .3 Repair damage to adjacent materials caused by architectural woodwork installation.

3.5 SCHEDULES

- .1 Refer to Millwork Elevations and Section 08 70 05 - Cabinet and Miscellaneous Hardware.

END OF SECTION

PART 1 - GENERAL

1.1 REFERENCES

- .1 American National Standards Institute (ANSI) / Builders Hardware Manufacturers Association (BHMA)
 - .1 ANSI/BHMA A156.1-2000, American National Standard for Butts and Hinges.
 - .2 ANSI/BHMA A156.2-2003, Bored and Preassembled Locks and Latches.
 - .3 ANSI/BHMA A156.3-2001, Exit Devices.
 - .4 ANSI/BHMA A156.4-2000, Door Controls - Closers.
 - .5 ANSI/BHMA A156.5-2001, Auxiliary Locks and Associated Products.
 - .6 ANSI/BHMA A156.6-2005, Architectural Door Trim.
 - .7 ANSI/BHMA A156.8-2005, Door Controls - Overhead Stops and Holders.
 - .8 ANSI/BHMA A156.10-1999, Power Operated Pedestrian Doors.
 - .9 ANSI/BHMA A156.12-2005, Interconnected Locks and Latches.
 - .10 ANSI/BHMA A156.13-2002, Mortise Locks and Latches Series 1000.
 - .11 ANSI/BHMA A156.14-2002, Sliding and Folding Door Hardware.
 - .12 ANSI/BHMA A156.15-2006, Release Devices - Closer Holder, Electromagnetic and Electromechanical.
 - .13 ANSI/BHMA A156.16-2002, Auxiliary Hardware.
 - .14 ANSI/BHMA A156.17-2004, Self-closing Hinges and Pivots.
 - .15 ANSI/BHMA A156.18-2006, Materials and Finishes.
 - .16 ANSI/BHMA A156.19-2002, Power Assist and Low Energy Power - Operated Doors.
 - .17 ANSI/BHMA A156.20-2006, Strap and Tee Hinges and Hasps.
- .2 Canadian Steel Door and Frame Manufacturers' Association (CSDMA)
 - .1 CSDMA Recommended Dimensional Standards for Commercial Steel Doors and Frames - 2009.

1.2 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
 - .1 Submit manufacturer's instructions, printed product literature and data sheets for door hardware and include product characteristics, performance criteria, physical size, finish and limitations.

- .3 Samples:
 - .1 Submit for review and acceptance of each unit.
 - .2 Samples will be returned for inclusion into work.
 - .3 Identify each sample by label indicating applicable specification paragraph number, brand name and number, finish and hardware package number.
 - .4 After approval samples will be returned for incorporation in Work.
- .4 Hardware List:
 - .1 Submit contract hardware list.
 - .2 Indicate specified hardware, including make, model, material, function, size, finish and other pertinent information.
- .5 Test Reports: certified test reports showing compliance with specified performance characteristics and physical properties.
- .6 Manufacturer's Instructions: submit manufacturer's installation instructions.

1.3 CLOSEOUT
SUBMITTALS

- .1 Submit in accordance with Section 01 78 00 - Closeout Submittals.
- .2 Operation and Maintenance Data: submit operation and maintenance data for door hardware for incorporation into manual.

1.4 MAINTENANCE
MATERIALS
SUBMITTALS

- .1 Extra Stock Materials:
 - .1 Supply maintenance materials in accordance with Section 01 78 00 - Closeout Submittals.
 - .2 Tools:
 - .1 Supply 2 sets of wrenches for door closers, locksets and fire exit hardware.

1.5 QUALITY
ASSURANCE

- .1 Regulatory Requirements:
 - .1 Hardware for doors in fire separations and exit doors certified by a Canadian Certification Organization accredited by Standards Council of Canada.
- .2 Certificates: product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.

1.6 DELIVERY,

- .1 Deliver, store and handle materials in accordance

STORAGE AND
HANDLING

- with Section 01 61 00 - Common Product Requirements and with manufacturer's written instructions.
- .2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labeled with manufacturer's name and address.
 - .3 Package items of hardware including fastenings, separately or in like groups of hardware, label each package as to item definition and location.
 - .4 Storage and Handling Requirements:
 - .1 Store materials off ground indoors in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
 - .2 Store and protect door hardware from nicks, scratches, and blemishes.
 - .3 Protect prefinished surfaces with wrapping or strippable coating.
 - .4 Replace defective or damaged materials with new.
 - .5 Develop Waste Reduction Workplan related to Work of this Section and in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
 - .6 Packaging Waste Management: remove for reuse and return by manufacturer of pallets, crates, padding, and packaging materials as specified in Waste Reduction Workplan in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.

PART 2 - PRODUCTS

2.1 HARDWARE ITEMS

- .1 Use one manufacturer's products only for similar items.

2.2 DOOR HARDWARE

- .1 Locks and latches:
 - .1 Mortise locks and latches: to ANSI/BHMA A156.13, series 1000 mortise lock, grade 1, designed for function and keyed as stated in Hardware Schedule.
 - .2 Lever handles: plain. All locksets/latchsets with levers to have 70mm backset typically.
 - .3 Escutcheons: round.
 - .4 Normal strikes: box type, lip projection not beyond jamb.
 - .5 Cylinders: key into keying system as

directed.

.6 Finish as scheduled.

.2 Butts and hinges:

.1 Butts and hinges: to ANSI/BHMA A156.1, designated by letter A and numeral identifiers, followed by size and finish, listed in Hardware Schedule.

.3 Door Closers and Accessories:

.1 Door controls (closers): to ANSI/BHMA A156.4, designated by letter C and numeral identifiers listed in Hardware Schedule, in accordance with ANSI/BHMA A156.4, table A1, finished as scheduled.

.2 Door controls - overhead holders: to ANSI/BHMA A156.8, designated by letter C and numeral identifiers listed in Hardware Schedule, finished as scheduled.

.4 Door Operators:

.1 Power-operated pedestrian doors: to ANSI/BHMA A156.10.

.2 Power assist and low energy power operated doors: to ANSI/BHMA A156.19.

.5 Architectural door trim: to ANSI/BHMA A156.6, designated by letter J and numeral identifiers listed in Hardware Schedule, finished as scheduled.

.1 Door protection plates: kick plate on push side of door unless otherwise noted, 1.27 mm thick stainless steel, with countersunk oval head stainless steel screws. Length to be full width of door less 50mm.

.2 Push plates: type J301, 1.27 mm thick stainless steel.

.3 Push/Pull units: type J405, stainless steel.

.6 Auxiliary hardware: to ANSI/BHMA A156.16, designated by letter L and numeral identifiers listed in Hardware Schedule, finished to 626.

.1 Stop, floor mounted: type L02142, finished to 626.

.7 Acoustic sound seals and door bottom seal: heavy duty, door seal of extruded aluminum frame and closed cell neoprene seal, surface mounted, closed ends, automatic retract mechanism when door is open, clear anodized finish.

.8 Thresholds: width listed in schedule x full width of door opening, extruded aluminum mill finish, serrated surface, with minimal lip to permit barrier free access.

.9 Barrier Free Pneumatic Door Operator to CAN/CGSB-69.26:

- .1 Power assist and low energy power operated doors to CAN/CGSB-69.35: single door operation with actuators, electric strikes, control boxes, and all related hardware. Surface mounted type with ability to adjust operation speed. Acceptable products: LCN 4642, Horton series 4000, Gyro-Tech GT-500, Stanley Magic Swing, Hunter HA-8, or approved equal.
- .2 Self contained control box/compressor combination for independent operation of two door leaves.
- .3 Control boxes: complete with electric strike relay.
- .4 Wall mounted, hard-wired low voltage actuators (with standard recessed electrical boxes): 114mm round stainless steel plate cover with International accessibility symbol engraved in blue. Door operators push bars by Ingress'r by Wikk Industries Mount actuators flush to walls at both the push and pull sides of a door Mount actuators at 900mm above finished floor or grade to the centre. Mount actuators flush to walls at both the push and pull sides of a door. At Vestibules, typically provide 1 exterior and 3 interior actuator locations. Refer to drawings for designated locations and site confirm final on site with Departmental Representative.
- .5 Provide switched line voltage to control box. Locate bypass switch above housing mechanism and wire so switch will also act as an on-off switch for the door operator.
- .6 Supply low voltage wiring to each actuator.

2.3 FASTENINGS

- .1 Use only fasteners provided by manufacturer. Failure to comply may void warranties and applicable licensed labels.
- .2 Supply screws, bolts, expansion shields and other fastening devices required for satisfactory installation and operation of hardware.
- .3 Exposed fastening devices to match finish of hardware.
- .4 Where pull is scheduled on one side of door and push plate on other side, supply fastening devices, and install so pull can be secured through door from reverse side. Install push plate to cover fasteners.
- .5 Use fasteners compatible with material through which they pass.

2.4 KEYING

- .1 Doors, padlocks and cabinet locks to be keyed

- differently as directed. Prepare detailed keying schedule in conjunction with Departmental Representative.
- .2 Supply keys in duplicate for every lock in this Contract.
 - .3 Supply 3 master keys for each master key or grand master key group.
 - .4 Stamp keying code numbers on keys and cylinders.
 - .5 Supply construction cores.
 - .6 Hand over permanent cores and keys to Departmental Representative.
 - .7 Provide a wall mounted, lockable, key cabinet capable of holding the number of keys supplied.
 - .8 Hardware for card access controls to be provided in locations as noted. Prepare frames and doors for card access systems including conduit and junction boxes.

PART 3 - EXECUTION

3.1 INSTALLATION

- .1 Manufacturer's Instructions: comply with manufacturer's written recommendations, including product technical bulletins, product catalogue installation instructions, product carton installation instructions, and data sheets.
- .2 Supply metal door and frame manufacturers with complete instructions and templates for preparation of their work to receive hardware.
- .3 Supply manufacturers' instructions for proper installation of each hardware component.
- .4 Install hardware to standard hardware location dimensions in accordance with CSDFMA Canadian Metric Guide for Steel Doors and Frames (Modular Construction).
- .5 Where door stop contacts door pulls, mount stop to strike bottom of pull.
- .6 Install key control cabinet.
- .7 Use only manufacturer's supplied fasteners.
 - .1 Use of "quick" type fasteners, unless specifically supplied by manufacturer, is unacceptable.

- .8 Remove construction cores when directed by Departmental Representative.
 - .1 Install permanent cores and ensure locks operate correctly.

3.2 ADJUSTING

- .1 Adjust door hardware, operators, closures and controls for optimum, smooth operating condition, safety and for weather tight closure.
- .2 Lubricate hardware, operating equipment and other moving parts.
- .3 Adjust door hardware to ensure tight fit at contact points with frames.

3.3 CLEANING

- .1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning.
 - .1 Leave Work area clean at end of each day.
 - .2 Clean hardware with damp rag and approved non-abrasive cleaner, and polish hardware in accordance with manufacturer's instructions.
 - .3 Remove protective material from hardware items where present.
 - .4 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning.
- .2 Waste Management: separate waste materials for reuse and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
 - .1 Remove recycling containers and bins from site and dispose of materials at appropriate facility.

3.4 DEMONSTRATION

- .1 Keying System Setup and Cabinet:
 - .1 Set up key control system with file key tags, duplicate key tags, numerical index, alphabetical index and key change index, label shields, control book and key receipt cards.
 - .2 Place file keys and duplicate keys in key cabinet on their respective hooks.
 - .3 Lock key cabinet and turn over key to Departmental Representative.
- .2 Maintenance Staff Briefing:
 - .1 Brief maintenance staff regarding:
 - .1 Proper care, cleaning, and general maintenance of projects complete hardware.
 - .2 Description, use, handling, and storage of keys.
 - .3 Use, application and storage of wrenches for door closers, locksets and fire exit hardware.

- .3 Demonstrate operation, operating components, adjustment features, and lubrication requirements.

3.5 PROTECTION

- .1 Protect installed products and components from damage during construction.
- .2 Repair damage to adjacent materials caused by door hardware installation.

3.6 SCHEDULE

- .1 HW Set: 01
 - 3 EA HINGE TA714 4.5 X 4 NRP 652 MCK
 - 1 EA STOREROOM LOCK CRR 8805 X MEDECO CYL 626 YAL
 - 1 EA ELECTRIC STRIKE EC121 SERIES FS 630 EFF
 - 1 EA SURFACE CLOSER 351-P10 EN SAR
 - 1 EA KICKPLATE K10A 12" X WIDTH TO SUIT 630 STD
 - 1 EA FLOOR STOP S101/S103 626 STD
CARD ACCESS BY OTHERS
DOOR CONTACT BY OTHERS
- .2 HW Set: 02
 - 3 EA HINGE TA714 4.5 X 4 652 MCK
 - 1 EA STOREROOM LOCK CRR 8805 X MEDECO CYL 626 YAL
 - 1 EA ELECTRIC STRIKE EC121 SERIES FS 630 EFF
 - 1 EA SURFACE CLOSER 351-0 EN SAR
 - 1 EA KICKPLATE K10A 12" X WIDTH TO SUIT 630 STD
 - 1 EA FLOOR STOP S101/S103 626 STD
CARD ACCESS BY OTHERS
DOOR CONTACT BY OTHERS
- .3 HW Set: 03
 - 3 EA HINGE TA714 4.5 X 4 652 MCK
 - 1 EA PULL 2412-2 630 STD
 - 1 EA PUSH PLATE K11A - 5 630 STD
 - 1 EA SURFACE CLOSER 351-0 EN SAR
 - 1 EA KICKPLATE K10A 12" X WIDTH TO SUIT 630 STD
 - 1 EA FLOOR STOP S101/S103 626 STD
- .4 HW Set: 04
 - 3 EA HINGE TA714 4.5 X 4 652 MCK
 - 1 EA OFFICE LOCK CRR 8807 X MEDECO CYL 626 YAL
 - 1 EA FLOOR STOP S101/S103 626 STD
- .5 HW Set: 05
 - 3 EA HINGE TA714 4.5 X 4 652 MCK
 - 1 EA PRIVACY SET CRR 8802 626 YAL
 - 1 EA FLOOR STOP S101/S103 626 STD

1	EA DOOR BOTTOM	CT-52	628 KNC
1	SET WEATHERSTRIP	W-22	BLK KNC
.6 HW Set: 06			
3	EA HINGE	TA714 4.5 X 4	652 MCK
1	EA STOREROOM LOCK	CRR 8805 X	
		MEDECO CYL	626 YAL
1	EA ELECTRIC STRIKE	EC121 SERIES FS	630 EFF
1	EA AUTO OPERATOR	GT 700 C/W	
		2 ACTUATORS	628 GYR
1	EA KICKPLATE	K10A 12" X	
		WIDTH TO SUIT	630 STD
1	EA FLOOR STOP	S101/S103	626 STD
		CARD ACCESS BY OTHERS	
		DOOR CONTACT BY OTHERS	
.7 HW Set: 07			
1	EA ELECTRIC HINGE	TA714 4.5 X 4 CC-4	652 MCK
1	EA ELECTRIC STRIKE	EC121 SERIES FS	630 EFF
1	EA STOREROOM LOCK	CRR 8830-2 X	
		2/MEDECO CYL	626 YAL
		EXISTING DEADLOCK TO BE	
		REMOVED	
		BALANCE HARDWARE EXISTING	
		CARD ACCESS BOTH SIDES	
		BY OTHERS	
.8 HW Set: 08			
1	EA ELECTRIC STRIKE	EC121 SERIES FS	630 EFF
		BALANCE HARDWARE EXISTING	
		CARD ACCESS BY OTHERS	
.9 HW Set: 09			
3	EA HINGE	TA714 4.5 X 4	652 MCK
1	EA STOREROOM LOCK	CRR 8805 X	
		MEDECO CYL	626 YAL
1	EA ELECTRIC STRIKE	6210 FSE	630 VON
1	EA SURFACE CLOSER	351-0	EN SAR
1	EA KICKPLATE	K10A 12" X	
		WIDTH TO SUIT	630 STD
1	EA FLOOR STOP	S101/S103	626 STD
1	EA DOOR BOTTOM	CT-52	628 KNC
1	SET WEATHERSTRIP	W-22	BLK KNC
		CARD ACCESS BY OTHERS	
		DOOR CONTACT BY OTHERS	
.10 HW Set: 10			
3	EA HINGE	TA714 4.5 X 4	652 MCK
1	EA OFFICE LOCK	CRR 8807 X	
		MEDECO CYL	626 YAL
1	EA SURFACE CLOSER	351-0	689 SAR
1	EA KICKPLATE	K10A 12" X	
		WIDTH TO SUIT	630 STD

1	EA FLOOR STOP	S101/S103	626 STD
.10 HW Set: 11			
3	EA HINGE	TA714 4.5 X 4	652 MCK
1	EA LOCK C/W DEADBOLT	CRR 8822 X MEDECO CYL	626 YAL
1	EA FLOOR STOP	S101/S103	626 STD
.10 HW Set: 12			
3	EA HINGE	TA714 4.5 X 4	652 MCK
1	EA LOCK C/W DEADBOLT	CRR 8822 X MEDECO CYL	626 YAL
1	EA SURFACE CLOSER	351-0	689 SAR
1	EA KICKPLATE	K10A 12" X WIDTH TO SUIT	630 STD
1	EA FLOOR STOP	S101/S103	626 STD

END OF SECTION

PART 1 - GENERAL

1.1 REFERENCES

- .1 Aluminum Association (AA)
 - .1 DAF 45-03, Designation System for Aluminum Finishes.
- .2 National Fire Protection Association (NFPA)
 - .1 NFPA 10-2006, Standard for Portable Fire Extinguishers.
- .3 American National Standards Institute (ANSI)
 - .1 ANSI A135.4-2004, Hardboard Standard.
 - .2 ANSI A208.1-2009, Particleboard.
 - .3 ANSI A208.2-2009, Medium Density Fiberboard for Interior Use.
- .4 ASTM International Inc.
 - .5 ASTM A 653/A 653M-07, Standard Specification for Steel Sheet, Zinc-Coated, (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
 - .6 ASTM B 32-04, Standard Specification for Solder Metal.
 - .7 ASTM B 456-03, Standard Specification for Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium.
 - .8 ASTM A 167-99(2009), Standard Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.
 - .9 ASTM A 924/A 924M-09, Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process.
- .4 Canadian General Standards Board (CGSB)
 - .1 CGSB 41-GP-30M-82, Wall coverings, Vinyl-Coated Fabrics.
 - .2 CAN/CGSB-1.81-M90, Air Drying and Baking Alkyd Primer for Vehicles and Equipment.
 - .3 CAN/CGSB-1.88-92, Gloss Alkyd Enamel, Air Drying and Baking.
 - .4 CGSB 31-GP-107Ma-90, Non-Inhibited Phosphoric Acid Base Metal Conditioner and Rust Remover.
 - .5 CGSB 41-GP-6M-1983, Sheets, Thermosetting Polyester Plastics, Glass Fibre Reinforced. Reaffirmation of September 1976.
 - .6 CAN/CGSB-11.3-M87, Hardboard.
- .5 CSA International
 - .1 CSA O121-08, Douglas Fir Plywood.
 - .2 CSA O151-09, Canadian Softwood Plywood.
 - .3 CAN/CSA-Z809-08, Sustainable Forest Management.
 - .4 CAN/CSA-B651-04, Accessible Design for the Built Environment.
 - .5 CAN/CSA-G164-M92(R2003), Hot Dip Galvanizing

of Irregularly Shaped Articles.

- .6 Environmental Choice Program (ECP)
 - .1 CCD-046-95, Adhesives.
- .7 Forest Stewardship Council (FSC)
 - .1 FSC-STD-01-001-2004, FSC Principle and Criteria for Forest Stewardship.
- .8 Green Seal Environmental Standards (GS)
 - .1 GS-11-11, Standard for Paints and Coatings.
 - .2 GS-36-11, Standard for Adhesives for Commercial Use.
- .9 South Coast Air Quality Management District (SCAQMD), California State, Regulation XI. Source Specific Standards
 - .1 SCAQMD Rule 1113-A2011, Architectural Coatings.
 - .2 SCAQMD Rule 1168-A2005, Adhesives and Sealants Applications.
- .10 Sustainable Forestry Initiative (SFI)
 - .1 SFI-2010-2014 Standard.
- .11 Underwriters' Laboratories of Canada (ULC)
 - .1 CAN/ULC-S102-2010, Standard Method of Test for Surfaces Burning Characteristics of Building Materials and Assemblies.
 - .2 CAN/ULC-S706-09, Standard for Wood Fibre Insulating Boards for Buildings.
- .12 Canadian Standards Association (CSA International)
 - .1 CAN/CSA-G164-M92(R2003), Hot Dip Galvanizing of Irregularly Shaped Articles.
 - .2 CSA W47.2-M1987(R2008), Certification of Companies for Fusion Welding of Aluminum.
 - .3 CSA W59-03, Welded Steel Construction (Metal Arc Welding).
 - .4 CSA W59.2-M1991(R2003), Welded Aluminum Construction.
 - .5 CSA O115-M1982(R2001), Hardwood and Decorative Plywood.
 - .6 CSA O151-04, Canadian Softwood Plywood.
- .13 Canadian Sheet Steel Building Institute (CSSBI)
 - .1 CSSBI SSF 6-1995, Sheet Steel Facts #6, Metallic Coated Sheet Steel for Structural Building Products-July 1995.

1.2 ACTION AND
INFORMATIONAL
SUBMITTALS

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
 - .1 Submit manufacturer's instructions, printed

product literature and data sheets and include product characteristics, performance criteria, physical size, finish and limitations.

- .3 Installation Drawings:
 - .1 Submit installation drawings.
 - .2 Indicate location, type, size, panel arrangement, backing, hardware, anchor or mounting details, frame or trim and accessories, where appropriate.
- .4 Samples:
 - .1 Submit samples:
 - .1 Panel material: 300 x 300 mm sample of each type.
 - .2 Accessory: 1 sample of each type
 - .3 Board / trim material: 300 mm long sample of each type.

1.3 QUALITY ASSURANCE

- .1 Regulatory Requirements:
 - .1 Surface burning characteristics of materials: listed and labelled by an organization accredited by Standards Council of Canada.
- .2 Test Reports: submit certified test reports showing compliance with specified performance characteristics and physical properties.
- .3 Certificates: submit product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.

1.4 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements and with manufacturer's written instructions.
- .2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
- .3 Storage and Handling Requirements:
 - .1 Store materials off ground indoors in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
 - .2 Store and protect materials from nicks, scratches, and blemishes.
 - .3 Replace defective or damaged materials with new.
- .4 Develop Waste Reduction Workplan related to Work of this Section and in accordance with Section 01 74 21 - Construction/Demolition Waste Management

and Disposal.

- .5 Packaging Waste Management: remove for reuse and return by manufacturer of pallets, crates, padding, and packaging materials as specified in Waste Reduction Workplan in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Tackboards: shall be vinyl-faced, 13mm thick cellulose fibreboard with Class III flamespread rating, and perimeter aluminum trim.
 - .1 Standard of Acceptance:
 - .1 Claridge vinyl-covered cork with Series 4 trim
Provide as indicated on drawings.
 - .2 Shanahan's vinyl-covered cork with 200 series trim
 - .3 ASP (Architectural School Products) vinyl-covered cork tackboard
 - .4 Or approved equal.
 - .2 Vinyl facing to be fire-rated vinyl to Warnock Hersey CAN4-S102-M80 with flame spread less than 10 and weight of 15oz. per lineal yard.
 - .3 Sizes and shapes as shown on drawings: cut sheets to fit.
 - .4 Colour from full range as selected by Departmental Representative, allow for a minimum of 3 colours.
 - .5 Fastening: concealed fastening units with fabric wrapping panel edge.
 - .6 Accessories: Include a chalk/pen rail at the bottom of each tackboard with anodized aluminum finish.
- .2 Corner Guards:
 - .1 Vinyl corner guard: surface mounted, high impact, 2mm thick vinyl-acrylic cover over continuous 1.5mm thick aluminum retainer behind concealed fasteners, 50mm wing x 1220mm high with 3mm radius.
 - .2 NFPA Class A fire rating with max flame spread rating of 15 and smoke developed of 35.

.3 Test impact strength to be 30 ft-lbs/inch of thickness as per ASTM D-256-90b.

.4 Guards to be chemical, stain, fungal, and bacterial resistant.

.5 Include fasteners for secure mounting to suit wall construction.

.6 Two colours to be selected by Departmental Representative from standard range available.

.7 90 degree corners typical as required to suit floor plan layouts; locations to be at all exposed outside gypsum board corners of interior walls.

.3 Toilet and Bath Accessories:

.1 Sheet steel sheet: to ASTM 653/A 653M ZF001 designation zinc coating.

.2 Stainless steel sheet metal: to ASTM A 167, Type 304, with satin finish.

.3 Sustainability Characteristics:

.1 Laminate Adhesives.

.1 Urea Formaldehyde Free.

.4 Stainless steel tubing: Type 304, commercial grade, seamless welded, 1.2 mm wall thickness.

.5 Fasteners: concealed screws and bolts hot dip galvanized, exposed fasteners to match face of unit. Expansion shields fibre, lead or rubber as recommended by accessory manufacturer for component and its intended use.

.6 Components:

.1 Paper towel dispenser: Surface mounted.

All metal, all welded construction of 22 gauge no.4 brushed stainless steel, to dispense 8" jumbo (2-12" reserve roll) x 8" wide roll towels. Hands free dispenser operated by large detection zone which senses hands. Operates with quantity of 4 "D" size alkaline batteries, comes keyed with tumbler lock to reduce pilferage and vandalism, and is front loading for easy service and maintenance.

.2 Toilet tissue dispenser: Surface mounted,

multi-roll. Unit shall dispense two standard core toilet tissue rolls up to 133 mm diameter (1800 sheets). Extra roll to automatically drop in place when bottom roll depleted. Unit shall be equipped

- with two theft-resistant, heavy duty, one-piece, moulded ABS spindles.
- .3 Soap Dispenser: Surface mounted, automatic soap dispenser. Type 304 stainless steel with satin finish. Corrosion-resistant valve shall dispense a variety of liquid soaps and disinfectants. Valve shall be sensor-activated and not require contact with the dispenser to function. Lockable housing shall be equipped with clear acrylic refill indicator window and be hinged for refilling and maintenance. Container shall have a capacity of 850 ml. Unit shall have CE certification. Operates with quantity of 3 "C" cell batteries.
 - .4 Feminine Napkin Disposal Bin: Surface mounted. Unit to have a self closing panel covering disposal opening. Panel to have a bottom edge hemmed for safety, be secured to door with spring loaded, full length stainless steel piano hinge and equipped with the international graphic symbol identifying sanitary napkin disposal. Unit to be furnished with a removable, leak-proof, rigid moulded polyethylene receptacle.
 - .5 Grab bars: Peened gripping surface, 32mm outside diameter. Clearance between grab bar and wall to be 38mm. Concealed mounting flanges to be 3mm thick stainless steel plate, 50mm x 80mm and equipped with two screw holes for attachment to wall. Flange covers to be 85mm diameter and to snap over mounting flanges to conceal mounting screws and fasteners. Ends of grab bar to pass through concealed mounting flanges and be heliarc welded to form one structural unit. Grab bar material and anchorage to withstand downward pull of 2.2 kN.
 - .6 Robe hook: Surface mounted with satin stainless steel finish. Flange to be equipped with concealed mounting bracket that is secured to concealed wall plate with stainless steel set screw. Cap to be welded to support arm.
 - .7 Waste receptacle: Exposed surfaces to have satin stainless steel finish. Top edge to be hemmed and bottom of waste receptacle to be equipped with a liner. Liner to have moulded plastic sleeve with 20 gauge stainless steel u-shaped support strap, hemmed for safety, riveted construction.
 - .8 Tilt mirror: wall mounted unit, fixed framed mirror 6 mm, stainless steel

frame.

- .4 Fire Extinguishers
 - .1 Fire extinguishers shall be supplied and installed to the requirements of the National Fire Code and NFPA 10, including all amendments. Generally, fire extinguishers shall be 2.3 kg. (5 lb.) ABC 3A, 40 BC, multi-purpose type by Flag or Williams. Refer to locations shown on drawings, including one adjacent to each exit door/stair and at a maximum travel distance between extinguishers of 45m (150') in the building.
 - .2 Identify extinguishers in accordance with recommendations of ANSI/NFPA 10 CAN/ULC-S508.
 - .3 Attach bilingual tag or label to extinguishers, indicating month and year of installation. Provide space for service dates.
 - .4 All existing fire extinguishers in the space to be removed and turned over to Departmental Representative.
- .5 Roll-down Blinds: provide for all windows in exterior walls.
 - .1 Blind System: Metal, bead chain operated roller shade system.
 - .1 Standard of Acceptance:
 - .1 Urban Edge Shading, Urban Edge 200
 - .2 Silent Gliss
 - .3 Contempra Textrol 2000
 - .4 Alternate Equivalent Products may be offered.
 - .2 Supplier is to determine the headrail roller tube size required to allow for the intended use, as recommended by the manufacturer.
 - .3 Fabric:
 - .1 Standard of Acceptance:
 - .1 Mermet 3G
Pattern: T-Screen 9601, 1% openness factor option.
Colour: 302007 M85 Charcoal to the interior / Linen Pearl to the exterior.
 - .2 Silent Gliss
Pattern: Sunscreen 601, 1% openness factor option.
Colour: 6540 to the interior / 6504 to the exterior.
 - .3 Alternate Equivalent Products may be offered.
 - .4 Width: Refer to drawings
 - .5 Length: Refer to drawings
 - .6 Hem to be plain.

- .4 Track System:
 - .1 Commercial heavy duty track purpose made roller shade system complete with all brackets and standard components.
 - .2 Headrail to be made of extruded aluminum
 - .3 All parts to be made of polyamide 6.6, Delrin, steel or powder coated galvanized steel.
 - .4 Shade shall be ceiling or wall mounted with appropriate universal brackets.
 - .5 Spring loaded idler endcap to permit easy and quick installation and removal of shades.
 - .6 Shades to be supplied with external, round, clear anodized (or white painted) aluminum weight bar EX-521.
 - .7 Site confirm mounting method. Head mount, (inside mount), typically in all locations.

- .6 Panel System: Multi-channel, flat panel moving system for window treatment or room division. Hand drawn with baton.
 - .1 Standard of Acceptance:
 - .1 Urban Edge Shading, Urban 700
 - .2 Silent Gliss
 - .3 Contempra Textrol 2000
 - .4 Alternate Equivalent Products may be offered.
 - .2 Fabric:
 - .1 Standard of Acceptance:
 - .1 Mermet Avila Twilight
Pattern: Blackout, 1% openness factor option.
Colour: cool slate grey.
 - .2 Alternate Equivalent Products may be offered.
 - .2 Track System:
 - .1 Commercial heavy duty track purpose made sliding panel system complete with all components.
 - .2 Headrail to be made of extruded aluminum.
 - .3 All parts to be made of polyamide 6.6, Delrin, steel or powder coated galvanized steel.
 - .4 Shade shall be ceiling mounted with appropriate universal brackets.
 - .5 System to include one panel carrier with Velcro.
 - .3 Additional Stock:
 - .1 Supply to the Departmental Representative for additional use:

- .1 (Qty 15)+/- blind system complete with fabric.
- .2 (Qty 2) +/- panel system complete with fabric.

- .7 Transaction Counter Hardware
 - .1 Drop in deal tray - #16 gauge, #4 brushed finish stainless steel. 305 mm W x 254 mm D x 39 mm M total dimensions. Dish section to measure 38 mm D W/25 mm Wide perimeter up/trim all around.
 - .2 Aluminum u-channel - to conceal edge of glazing. 32 mm aluminum u-channel in Satin Anodized finish.

- .8 Water Coolers: Provide one to each Lunch Room, Rooms 124 and 234, total two.
 - .1 Water coolers to be point-of-use, bottleless, connected to cold water supply of adjacent sink, equipped with grounded power cord and plug, for use in above-counter receptacle.
 - .2 Water coolers to provide cold and hot, filtered water.
 - .3 Standard of Acceptance:
 - .1 Oasis Onyx countertop bottleless cooler
 - .2 Quench Water Canada Inc. Innowave Chiller3 Countertop
 - .3 Waterlogic 2000 Countertop or 2500 Countertop
 - .4 Alternate equivalent products may be offered.

PART 3 - EXECUTION

3.1 EXAMINATION

- .1 Verification of Conditions: verify that conditions of substrate previously installed under other Sections or Contracts are acceptable for installation in accordance with manufacturer's written instructions.
 - .1 Visually inspect substrate in presence of Departmental Representative.
 - .2 Inform Departmental Representative of unacceptable conditions immediately upon discovery.
 - .3 Proceed with installation only after unacceptable conditions have been remedied and after receipt of written approval to proceed from Departmental Representative.

3.2 MANUFACTURER'S INSTRUCTIONS

- .1 Compliance: comply with manufacturer's written data, including product technical bulletins, product catalogue installation instructions, product carton installation instructions, and data sheets.

3.3 INSTALLATION

- .1 Install in accordance with manufacturer's instructions, parallel to floor with uniform vertical surface, plumb and level, to provide rigid, secure surface.
- .2 Install and secure accessories rigidly in place as indicated on drawings and as follows:
 - .1 Stud walls: install steel back-plate to stud prior to plaster or drywall finish. Provide plate with threaded studs or plugs.
 - .2 Hollow masonry units, existing plaster or drywall: use toggle bolts drilled into cell or wall cavity.
 - .3 Solid masonry, marble, stone or concrete: use bolt with lead expansion sleeve set into drilled hole.
- .3 Install grab bars on built-in anchors provided by bar manufacturer.
- .4 Use tamper proof screws/bolts for fasteners.
- .5 Fill units with necessary supplies shortly before final acceptance of building.
- .6 Install mirrors in accordance with Section 08 80 50 - Glazing.
- .7 Install or mount extinguishers in cabinets or on brackets as indicated in accordance with NFPA 10.

3.4 CLEANING

- .1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning.
 - .1 Leave Work area clean at end of each day.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning.
- .3 Waste Management: separate waste materials for reuse and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
 - .1 Remove recycling containers and bins from site and dispose of materials at appropriate facility.

3.5 PROTECTION

- .1 Protect installed products and components from damage during construction.
- .2 Repair damage to adjacent materials caused by installation.

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3.6 SCHEDULE

.1 Refer to drawings for locations.

END OF SECTION