

Project Description: COMPOUND MAINTENANCE FACILITY

Des-Tek Inc.

Project Location: FUNDY NATIONAL PARK, ALMA, NB

Owner: PARKS CANADA

Date of Review:

Item	2015 National Building Code Data Matrix parts 3 & 9						NBC Reference				
1	Project Description		<input type="checkbox"/> Change of Use	<input checked="" type="checkbox"/> New	<input checked="" type="checkbox"/> Part 3	<input type="checkbox"/> Part 9					
			<input type="checkbox"/> Addition	<input type="checkbox"/> Alteration			2.1.3.1	9.10.1.3			
2	Major occupancy(s) MED. HAZARD INDUSTRIAL - F-2					3.1.2.2(1)	9.10.2				
3	Building Area (m2)	Existing	New	928.6	Total	927	1.4.1.2	1.1.3.2			
4	Gross Area (m2)	Existing	New	1022.6	Total	1023					
5	Number of Storeys	Above	1	Below Grade	0		3.2.1.1 & 1.4.1.2	2.1.3.1			
6	Height of Building(m)	9.6						2.1.3.1			
7	Number of Streets / Access Routes	2					3.2.2.10 & 3.2.5.5				
8	Building Classification	3.2.2.7.9					3.2.2	9.10.4			
9	Sprinkler System Proposed	<input checked="" type="checkbox"/> Entire Building					3.2.2.20-90	9.10.8.2			
		<input type="checkbox"/> Basement Only					3.2.1.5				
		<input type="checkbox"/> in lieu of roof rating					3.2.2.18				
		<input checked="" type="checkbox"/> not required									
10	Standpipe required	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> Not required			3.2.5.8					
11	Fire Alarm required	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No			3.2.4	9.10.17.2				
12	Water Service/Supply is Adequate	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No			3.2.5.7					
13	High Building	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No			3.2.6					
14	Permitted Construction	<input type="checkbox"/> Combustible	<input checked="" type="checkbox"/> Non-Combustible			3.2.2.20-90	9.10.6				
15	Mezzanine(s)	Area (m2)	96			3.2.1.1.(3)-(8)	9.10.4.1				
16	Occupant load based on	<input type="checkbox"/> m2 /person	<input checked="" type="checkbox"/> design of building			3.1.17	9.9.1.3				
	Basement:	Occupancy	Load	Person							
	1st Floor	Occupancy	Load	21	Person						
	Mezzanine	Occupancy	Load	1	Person						
17	Accessibility	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No			3.8	9.5.2				
	Explain:										
18	Hazardous Substances	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No			3.3.6	9.10.1.3.(4)				
19	Required Fire Resistance Rating (FRR)	Horizontal Assemblies	List Design No. or Description (SG-2)			3.2.2.20-90 & 3.2.1.4	9.10.8 & 9.10.9				
FRR (Hours)											
Floor 0.75 Hours											
Roof 0 Hours											
Mezzanine 0 Hours											
FRR of Supporting Members		List Design No. or Description (SG-2)									
Floor 0.75 Hrs (if Comb.)											
Roof 0 Hours											
Mezzanine 0 Hours											
20	Special Separation - Construction of Exterior Walls						3.2.3	9.10.14			
	Wall	Area of EBF (m2)	L.D. m	L/H or H/L	Permitted % of Openings	Proposed % of Openings	FRR (Hours)	Listed Design or Description	Comb. Const.	Comb. Const. Noncomb. Cladding	Non-Comb. Const.
	North	112	>14		100						x
	South	61	>9		100						x
	East	155	>15		100						x
	West	155	>15		100						x

Notes:

## WALL TYPES

### EXTERIOR

- (W1)
- METAL CLADDING
  - 127mm Z GIRT @ 600mm OC PERPENDICULAR TO CLADDING RIB
  - 25mm AIRSPACE
  - 100mm CLOSED CELL SPRAY FOAM INSULATION - RSI 4.55
  - 190mm CONC MASONRY UNITS
- (W2)
- METAL CLADDING
  - 22mm VERT METAL FURRING CHANNEL @ 600mm OC
  - 38mm HORIZ. Z GIRT @ 600mm OC
  - 38mm RIGID INSULATION - RSI 1.31
  - SELF ADHERED AIR/WEATHER BARRIER
  - 13mm EXT. GRADE GYPSUM SHEATHING
  - 152mm LIGHT GAUGE STEEL STUDS
  - 152mm BATT INSULATION - RSI 4.23
  - 6 MIL POLY VAPOUR BARRIER
- (W2a)
- AS W2 WITH BATT & RIGID INSUL REMOVED
- (W3)
- 13mm EXT. GRADE GYPSUM SHEATHING
  - 92mm LIGHT GAUGE STEEL STUDS

### INTERIOR

- (P1)
- 90mm CONC MASONRY UNITS
- (P2)
- 140mm CONC MASONRY UNITS
- (P3)
- 190mm CONC MASONRY UNITS
- (P3R)
- 190mm CONC MASONRY UNITS
  - SIMILAR TO ULC U-913 - 2 HR

## FLOOR TYPES

- (F1)
- 150mm CONC SLAB - SEE STRUCTURAL
  - 6 MIL POLY VAPOUR BARRIER
  - 50mm RIGID INSULATION
  - 150 GRANULAR FILL
- (F2)
- 250mm CONC SLAB - SEE STRUC
  - 6 MIL POLY VB
  - 50mm RIGID INSUL
  - 150 GRANULAR FILL
- (F3)
- 200mm HOLLOWCORE PRECAST CONCRETE PLANKS

## ROOF TYPES (VARY SYSTEM COMPONENTS ACCORDINGLY BASED ON MANUFACTURER' SYSTEM)

- (R1)
- LINEAR METAL ROOFING PANELS W/ CONCEALED FASTENING SYSTEM
  - CONTINUOUS WATER BARRIER UNDERLAYMENT
  - 150mm CLIPS @ 600mm OC
  - 150mm RIGID INSULATION - RSI 5.22
  - 13mm EXT. GRADE GYPSUM THERMAL BARRIER
  - 38mm STEEL DECK - SEE STRUC
  - OWSJ - SEE STRUCTURAL
- (R2)
- LINEAR METAL ROOFING PANELS W/ CONCEALED FASTENING SYSTEM
  - CONTINUOUS WATER BARRIER UNDERLAYMENT
  - 13mm EXT. GRADE GYPSUM SUBSTRATE
  - 38mm STEEL DECK - SEE STRUC
  - LGSJ (LIGHT GAUGE STEEL JOIST) - SEE STRUC
  - 2 LAYERS 152mm BATT INSULATION - RSI 8.46
  - 6 MIL POLY VAPOUR BARRIER
  - 22mm METAL FURRING @ 400mm OC
  - 16mm TYPE 'X' GYPSUM BOARD

Public Works and Government Services Canada

Travaux Publics et Services Gouvernementaux Canada

**HATCH**  
1809 BARRINGTON STREET, SUITE 1009  
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HATCH PROJECT # H352258

**DES-TEK INC**

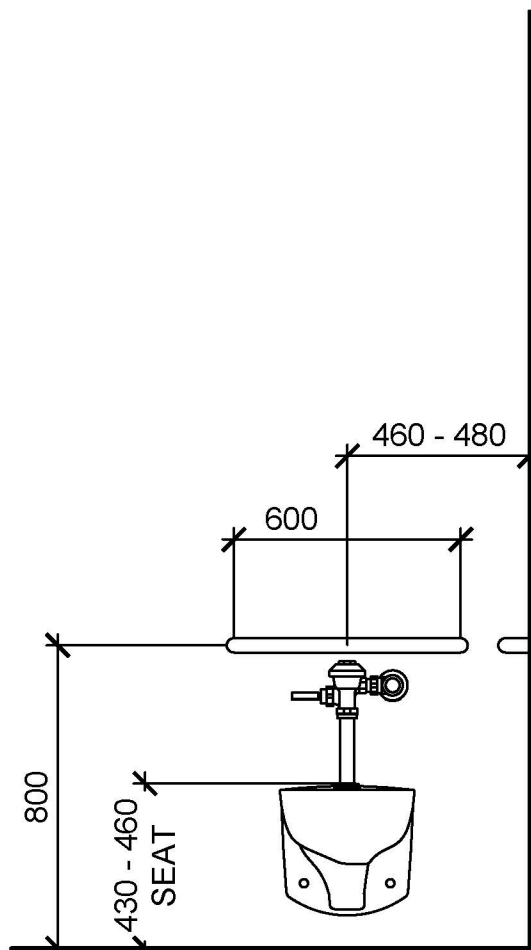
J. Francis Malley, Architect AANB



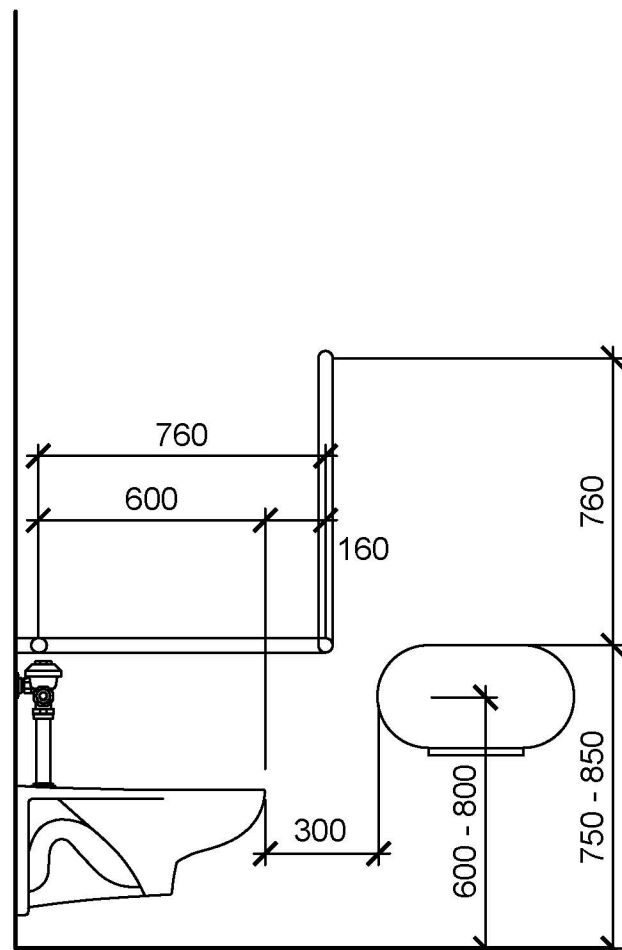
## 2 BUILDING CODE MATRIX

## 3 CONSTRUCTION TYPES

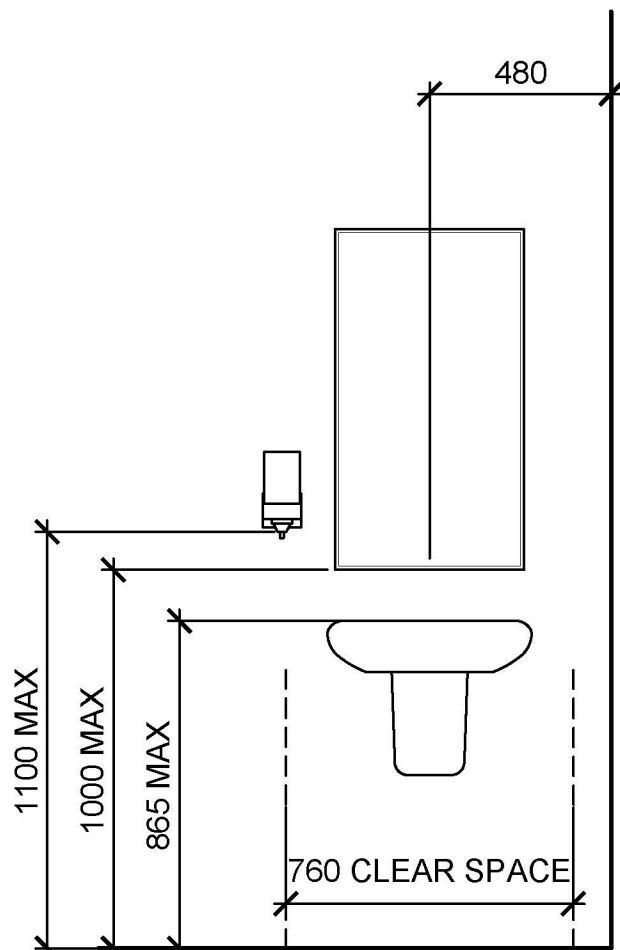
## 1 TYPICAL BARRIER-FREE FIXTURE CLEARANCES



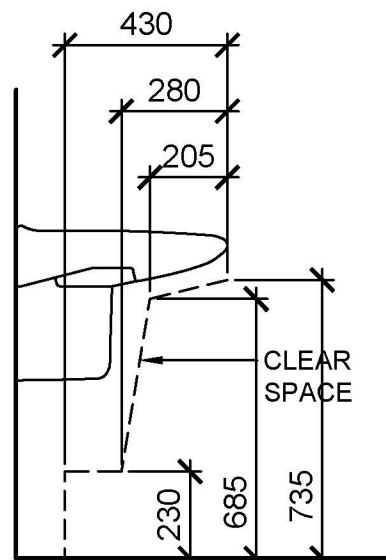
BF WATER CLOSET FRONT



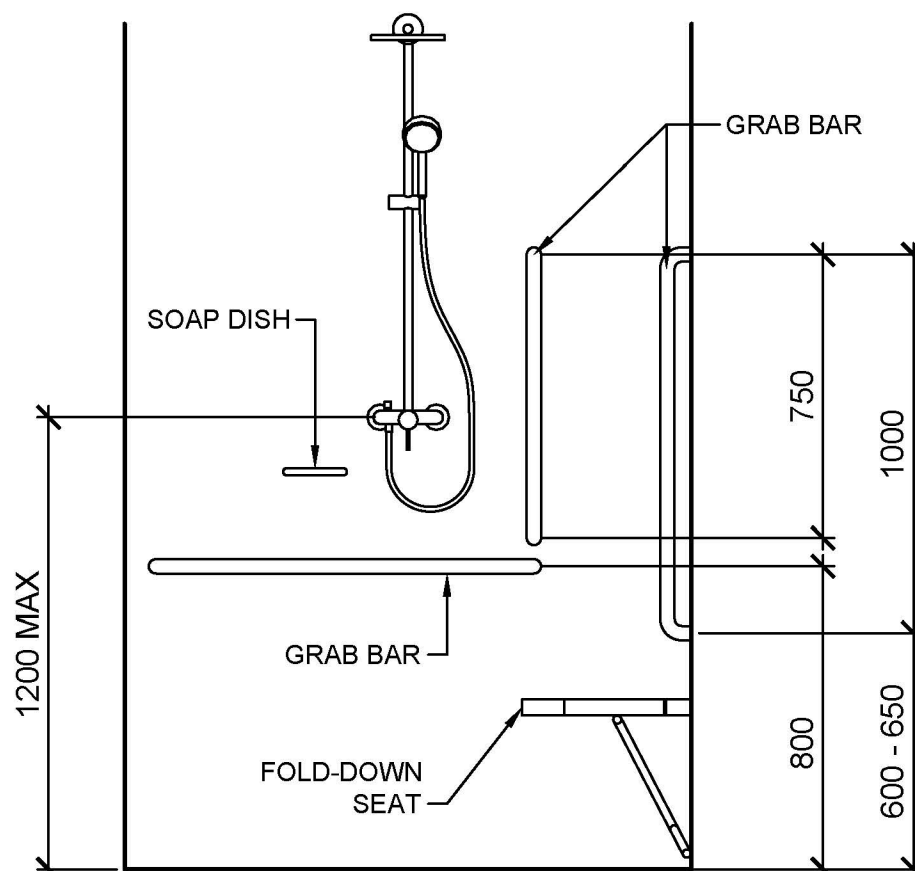
BF WATER CLOSET SIDE



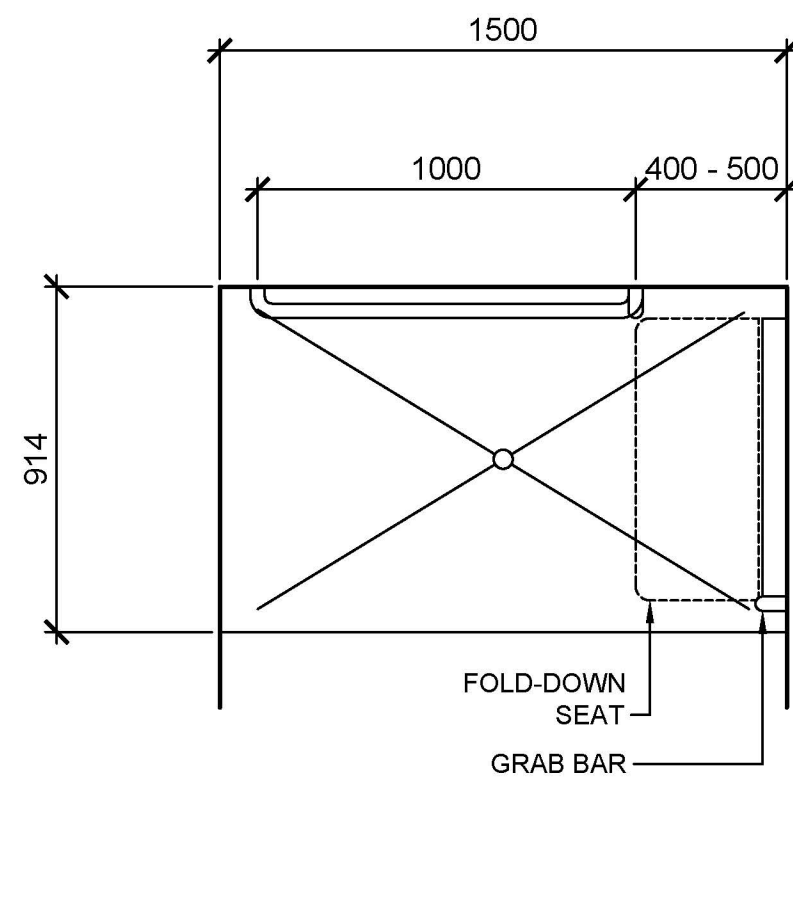
BF LAVATORY FRONT



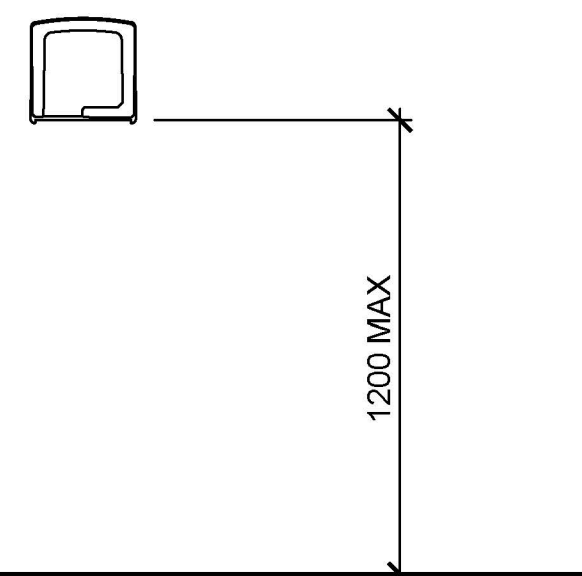
BF LAVATORY SIDE



BF SHOWER SIDE



BF SHOWER PLAN



HAND DRYER