

THE NORTHUMBIA BUILDING CENTRE

WORK BREAKDOWN STRUCTURE DICTIONARY

Version <1.0> <31/10/2011>

VERSION HISTORY

Version #	Implemented By	Revision Date	Approved By	Approval Date	Reason
1.0	Bartek Korcz	31/10/2011			

WBS Element Definitions

WBS Code	WBS Element		
1	Enabling works		
WBS Elemen	t Description		
Preparing the site for construction activities includes clearing and grubbing to remove unwanted vegetation and the removal and stockpiling of topsoil from construction site for later use in landscaping.			
This element covers the cost of general grading to create suitable sites for individual facilities and to control drainage and the cost of landscaping to control erosion.			
-	of fencing to control access or to provide security for selected areas is also part of this WBS element.		

WBS Code	WBS Element
1.1	Site set up
WBS Element Description	
See WBS 1	

WBS Code	WBS Element
1.2	Site access
WBS Element Description	
See WBS 1	

WBS Code	WBS Element
2	Foundation
WBS Element Description	

WBS Code	WBS Element
2.1	Excavation
WBS Element Description	
Excavate, trench and for concrete framework.	

WBS Code	WBS Element	
2.2	Foundation	
WBS Element Description		
Element includes all structures below and up to grade; all concrete formwork and reinforcing steel; and placement, curing and weather protection of structural concrete and slab on grade		

WBS Code	WBS Element	
2.3	Steel erecting	
WBS Element Description		
Furnish and install the exterior concrete composite wall panels, insulated metal wall		
panels, doors and hardware, and pipe bollard at the overhead doors.		

WBS Code	WBS Element
3	External works
WBS Element Description	

WBS Code	WBS Element	
3.1	Masonry works	
WBS Element Description		
This element include furnishing and install of the the exterior concrete composite wall panels, doors and hardware.		
panels, doors and nardware.		

WBS Code	WBS Element	
3.2	Roofing	
WBS Element Description		
Furnish and install the entire roofing system, including the roof coverings, insulation and flashings and trim.		

WBS Code	WBS Element
3.3	Building finishes
WBS Element Description	
Provide external wall coverings, external doors and windows	

WBS Code	WBS Element			
3.4	Landscaping			
WBS Elemen	WBS Element Description			
Element inclu	Element include designing and creating the landscape around the building.			

WBS Code	WBS Element			
3.5	Car Park			
WBS Elemen	BS Element Description			
Provide car p	Provide car park spaces for clients.			

WBS Code	WBS Element	
3.6	Paving	
WBS Elemen	t Description	
This element includes the costs of on-site paving for roads, sidewalks and parking areas		

WBS Code	WBS Element			
4	Internal works			
WBS Elemen	Description			

WBS Code	WBS Element				
4.1	Electrical installation				
WBS Elemen	t Description				
branch wiring system, grour	nstall complete power distribution system including, lighting, outlets, , fire alarm system, communication systems, fibre optic data transmission nding, lightning protection system, UPS systems and access to the site d control system.				

WBS Code	WBS Element
4.1.1	Lighting
WBS Elemen	t Description
Install low er	nergy lighting for internally and externally in accordance with the latest
Building regu	lations and codes. Operated automatically by the use of illuminance and
occupancy se	ensors. Emergency lighting will also be provided with a 3 hour battery
backup. Ade	quate external lighting will be provided at entrances to and from the
building as we	ell as the car park.

WBS Code	WBS Element				
4.1.2	Small Power				
WBS Elemen	t Description				
This element	includes the on-site primary and secondary electrical distribution system				
down to the c	onnection points for individual facilities				

WBS Code	WBS Element			
4.1.3	Photovoltaic			
WBS Elemen	t Description			
would be pro	install solar panel on the roof and ground source heat pump installation vided throughout the building. The necessary import/export meters will be the utility company.			

WBS Code	WBS Elen	nent							
4.1.4	Security								
WBS Elemen	t Descriptio	n							
Install securi surveillance.	ty system	to the	building	comprising	fire	alarms,	CCTV	and	video

WBS Code	WBS Element
4.1.5	Emergency Lighting
WBS Elemen	t Description
Provide eme	rgency lights above all emergency doors and in all selected places within
the building.	

WBS Code	WBS Element
4.1.6	Telecommunications
WBS Elemen	t Description
Installation of	of all telecommunication systems required like, BT, Broadband, LAN,
Computers, S	Software.

WBS Code	WBS Element		
4.2	Mechanical Services		
WBS Elemen	t Description		

WBS Code	WBS Element	
4.2.1	Water Services	
WBS Element Description		
Install water supply equipment, insulation, water pipe and fittings.		

WBS Code	WBS Element		
4.2.2	Waste		
WBS Elemen	WBS Element Description		
Provide all sanitaryware and soil and waste pipework form kitchen and toilets and connect to existing external manhole.			

WBS Code	WBS Element							
4.2.3	Rainwater							
WBS Element Description								
Gutters and	downpipes to	be installed	to	keep	rainwater	away	from	the
foundation of	the building					-		

WBS Code	WBS Element	
4.2.4	Air Conditioning	
WBS Element Description		
The FCUs provided for the heating sized sufficiently to offset the solar gains from the		
large glazed facades and provide cooling and dehumidification during the summer.		

WBS Code	WBS Element
4.2.5	Heating
WBS Elemen	t Description
	r-floor heating system throughout which will provide the main source of g, fed from a ground source heat pump (GSHP system). In addition, ceiling

mounted fan coil units (FCU) provided for top-up heating to most areas.

WBS Code	WBS Element	
4.2.6	Ventilation	
WBS Element Description		
Natural stack effect with mechanical extract in kitchen and WC's		

WBS Code	WBS Element	
4.3	Partition Wall	
WBS Element Description		
Install of all internal plasterboard walls including plaster.		

WBS Code	WBS Element	
4.4	Flooring	
WBS Element Description		
Installation of raised floor system and floor finish like laminate flooring or tiles.		

WBS Code	WBS Element	
4.5	Ceiling	
WBS Element Description		
Suspended ceiling system, White Tiles 600 x 600mm		

WBS Code	WBS Element		
4.6	Building finishes		
WBS Elemen	WBS Element Description		
Interior finish applied to the rough inside walls, ceiling, and subfloors. Provide ceiling and wall coverings, doorframes and window frames, stairs, floor covering, and wood trims.			

WBS Code	WBS Element	
5	Site clear up	
WBS Element Description		