# 2 Project Goals / BIM Uses

## 2.1 Major BIM Goals / Objectives

**Goal Description:** As the Owner is not planning to use BIM during the operational phase of the facility, the construction team can identify and limit their effort to BIM uses that will provide direct benefits during construction of the store.



As the BIM champion on this project, the Construction Manager (CM) immediately identifies their business needs to keep the project on time and budget as key goals. The remaining goals identified already have non-BIM processes to support them but should still be reviewed at this stage.



Priority	Goal Description (Value Add)			
	Ensure construction stays on time			
	Ensure construction stays on budget			
	Ensure quality targets			
	Identify cost savings opportunities			
	Simplify handover			

Challenge: Identifying goals beyond the immediate project commitments can be difficult. One potential approach is to look at existing practices for instances where having a digital model can reduce or eliminate work, costs or time required.

Priority	Goal Description (Value Add)
High	Ensure construction stays on tin
High	Ensure construction stays on bu
Medium	Ensure quality targets
Low	Identify cost savings opportunit
Low	Simplify handover

**Priority:** The first two goals are high priority as they directly pertain to satisfying the CM's project contract requirements.

It is more difficult to assign a priority to the remaining goals without thorough consideration of the expected benefits.

When used right, BIM use has a good record in delivering higher quality products and this blends well with the corporate goals leading to a medium priority rating. Cost savings and handover goals are less likely to yield significant benefits given the design phase is past and client has not expressed interest in handover models.

Priority	Goal Description (Value Add)		Potential BIM Uses	
High	Ensure construction stays on time		Site Utilisation Planning, 4D Modeling, Existing Conditions Modeling	
High		dget	3D Coordination, 4D Modeling	
Medium	Picking goals before			
specific BIM uses serves to ensure modeling efforts are driven		ies	Digital Fabrication, 3D Coordination, Record Modeling	
Low	by business or project level objectives with tangible benefits.		Digital Fabrication, 3D Coordination	
objectives with tangible benefits.			Record Modeling	

Users and Goals Processes and Exchanges Supporting Infrastructure

## 9 Technology Requirements

The Construction Manager works with Autodesk® products, in particular in this project,					
The CM will build a model of the project for architectural and civil elements in					
. The CM will also import BIM models delivered by the Concrete Contractor in Revit®					
format and import models exported fromby the Steel and other					
structural Fabricators. Integrated models will be used by the CM for the purpose of validating					
constructability and project scheduling.					
If, for any reason, other modeling packages are required they must be compatible with					

#### 9.1 Software

The table below summarizes the planned use of BIM capable software by the project team. Upgrades to the accepted software for the project may happen if all parties involved agree.

BIM Use	Discipline	Software (and version)
Design Validation	CM – Architectural	
Design Validation	CM – Civil	
Design Authoring and Validation	Concrete	
Fabrication Design	Steel Structural and	
	Glulam Structure	
Design Review and Scheduling	CM	
3D Design Coordination	CM	

#### 9.2 Hardware

Stakeholders are responsible for setting their own hardware requirements or standards

At the worksite, the CM will provide one workstation for model review. The workstation will have the following capabilities: 2.5 MHz 64 bit Dual Core Processor, 8 GB RAM Windows 7.

### 9.3 Modeling Content and Reference Information

BIM Use	Discipline (If Applicable)	Modeling Content / Reference Information	Version
Design Authoring	Arch	AIA Architectural	11 <sup>th</sup> Edition (2007)
		Graphics Standards	
Structural Design	Structural	AISC Shapes Database	V14.0 (2013)
	Engineer		
Virtual Construction /		National BIM Standard -	December 2007 Edition
<b>Model Authoring</b>		United States™ Version 2	with May 2012 Revisions
		Minimum BIM Standard	