WallX Building Demolition

Project Management Plan

Prepared by;

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Contents

1.0 Overview

1.1 Business Goal

Purpose of this report is to document the project plan for WallX Building demolition project. The project is to demolish an old university building with no historic or architectural significance for a major client. This project has good profit potential as well as marketing potential for FAAM Inc. Following are the clients' purpose for this project

- Building takes up ¼ of a city block in an urban centre.
- Building considered "obsolete" – little air conditioning, heat energy inefficient, inadequate wiring, lacks basic IT infrastructure
- Health risk – building has asbestos insulation

This report details the project management plan including all subsidiary plans, baselines and components required for the project.

1.2 Project Scope and Timeline

Following items are in scope for the project

- Develop a strategic plan to demolish building
- Obtain required permits to restrict and divert traffic for the duration of demolition
- Remove existing leftover items from building
- Tear down walls, floors and roof
- Remove existing foundation to at least 4 feet below existing street grade level
- Remove all material including hazardous waste and properly dispose
- Backfill excavation with clean fill

The client would like this project completed as soon as possible and no later than 6 months.

1.3 Key Stakeholders

Following are key stakeholders in this project

- Project Manager – Fahid Choudhry
- Health & Safety Expert – Annam S.
- Finance Expert – Ayla A.
- Project Sponsor – Ron Caldwell
- Construction Expert – Fahid C.

Other Stakeholders

- City of Mississauga
- University Building Leadership Team
- University Residents/Office holders
- Occupational Health and Safety (Ministry of Labour)
- Health Canada

2.0 Integration Management Plan

The purpose of project Integration Management is to ensure that:

- the project meets the need for which it was created
- the project is delivered on time, on budget and within the approved scope; and
- the project is monitored, controlled and delivered accordingly

2.1 Integration Approach

Initiating:

- Project charter was created to initiate the demolition project and list the deliverables
- Work breakdown structure will list all the work packages

Planning

- Project team will make detailed project management plan for WallX Building Demolition.
- Team will balance all areas of a project (time, scope, cost, quality, communication, risk, procurement, stakeholder, among others) because these areas of project are interconnected and cannot be performed separately.
- Scope management plan will give detailed overview of timelines, deliverables, and milestones throughout the project.

Executing

- Project team will Direct and manage project execution to complete deliverables
- Team will manage work performance information
- Project team will manage the change requests and log it in change log
- Project team will implement all the health and safety rules to keep the demolition site accident free

Monitoring and Controlling

- Project team will monitor and control Demolition work
- Team will also manage Change requests
- Project team will manage the project document and update it with any change requested and implement
- Team will perform integrated change control
- Project team will manage change request status updates and communicate with stakeholders and project members in timely and effective manner.

- Project team will monitor workplace risks and hazards.

Closeout Process

- Project team will finalize all the project activities.
- Project team will inspect the site after demolition is completed, accept and close project
- Project team will do final hand off the demolition site after clean fill is complete to project sponsor

2.2 Change Control Process

Change control involves evaluation, identifying and managing changes throughout the project life cycle. Changes and additional requirements add to some aspects of project; the time, cost, quality, resources scope and risk.

Determining important objectives will help project team establish if the change is beneficial to the project. The main steps to integrate change control process in WallX building demolition are as follows.

- Project team will determine the change request and factor how this change will alter the project and if these changes will be beneficial to the overall project.
- Project team will implement change request form for any potential change requested.
- Complete the appropriate change request form.
- Project team will review the change requested and assess the effect on the current schedule of the project
- The change request and estimated impact will be presented to project sponsors for their consideration.
- After determining that the change has occurred. Project manager will communicate the changes to top management and stakeholders in effective and timely manner
- Project team will manage actual changes as they occur and log the changes in change log.

3.0 Scope Management Plan

The Scope Management Plan provides the scope framework for Wall X Building Demolition project. This plan documents the scope management approach, roles and responsibilities as they pertain to project scope, scope statement, and verification and control measures. This plan also includes approach for managing scope change control and the project's work breakdown structure.

The objective of this project is to successfully demolish WallX Building as it is deemed obsolete and poses health risks. This includes preparing plans for demolition, obtaining permits required for traffic control, removing leftover items in building, demolishing the building and removing up

to 4 feet below the street level as well as backfilling excavation with clean fill. This plan serves as a guide for managing and controlling the scope.

3.1 Collection of Requirements

The scope for WallX Building Demolition project was defined through a comprehensive requirements collection process. Project charter, project documentation, business documents, enterprise environmental factors and organizational process assets were reviewed in order to complete this process. Following methods were employed in the process

- Project team members from City of Mississauga were interviewed to understand needs of the client. A joint session was held involving FAAM subject matter experts, project manager and City of Mississauga personnel. All requirements were thoroughly documented.
- Benchmarking was conducted by comparing data from other recent demolition projects of similar stature. This helped identify best practices and practices to be avoided.
- Plans from the City of Mississauga along with documents from benchmarking were gathered and reviewed. Expert judgment from SMEs was used to decide the best approach for demolition of the building. Decisions were made through majority voting among SMEs consulted.

Through abovementioned processes, the project team developed the project requirements for the demolition and they were documented in a requirements traceability matrix. An example of the requirements traceability matrix can be found in the Appendix.

3.2 Project Scope Statement

This scope statement provides a detailed description of the project, deliverables, constraints, exclusions, assumptions, and acceptance criteria. Additionally, the scope statement includes what work should not be performed in order to eliminate any implied but unnecessary work which falls outside the of the project's scope.

Product Scope:

- Develop a strategic plan to demolish building
- Obtain required permits to restrict and divert traffic for the duration of demolition
- Building inventory – Donate and Recycle the Leftover furniture and Items in the building
- Isolate and disconnect electricity, water, gas services
- Tear down walls, floors and roof
- Remove existing foundation to at least 4 feet below existing street grade level

- Remove all material including hazardous waste and properly dispose
- Backfill excavation with clean fill

Acceptance Criteria:

The building must be fully demolished including 4 feet below street grade level. Excavation should be backfilled with clean fill and stabilization of excavation must be ensured. A notification of completion will be obtained from City of Mississauga.

Risk Assessment:

Risks are inherent in any project of this stature. Following are the main categories of risk identified for this project Health and safety risk, timeline risk, cost risk, and resources risk. Details of associated risks can be found in risk management plan.

Project Deliverables:

Following is a list of main deliverables for this project. The deliverables are further subdivided into smaller components in the Work Breakdown Structure (WBS).

- Human Resources
- Equipment and Materials procurement
- Site Preparation
- Building Preparation
- Demolition
- Site Cleanup
- Backfilling
- Site exit Preparation
- Site Handoff

Project Exclusions:

Following items are deemed out of scope for this project.

- Permit to demolish building (has already been obtained)
- Soil contamination study
- Landscaping after project completion
- Removal of existing fixtures (prior notice given to occupants)

Project Assumptions and Constraints:

Following assumptions are going to be made for this project

- Project sponsor as well as department managers will support the project and that adequate internal resources are available for the successful completion of this project
- People or teams involved in decision making will do so in a timely manner
- Decisions made during the projectwill be based on information available at the time and could be subject to changeduring the course of the project.
- Competent and knowledgeable staff are available or can be hired to be subject matter experts

Following are some constraints of the project

- The project must adhere to required budget and timeline.
- Since this is a construction related project, weather could affect the progression of the project timeline
- Maintaining access around site.

3.3 Work Breakdown Structure

For more effective management, the work required to complete demolition project will be subdivided into individual work packages. This will allow the project manager to more effectively manage the project's scope as the project team works on the tasks necessary for project completion.

At level 1, current WBS was defined to be phase-based. The project is broken down into four phases: Resource Procurement, Preparation, Execution and Closing. Each of these phases is then subdivided further down to work packages that can be assigned to individual teams or people. WBS was developed by using top-down method.

Below is the WBS for this project followed by WBS dictionary, Figure 1 and Table 1, respectively.

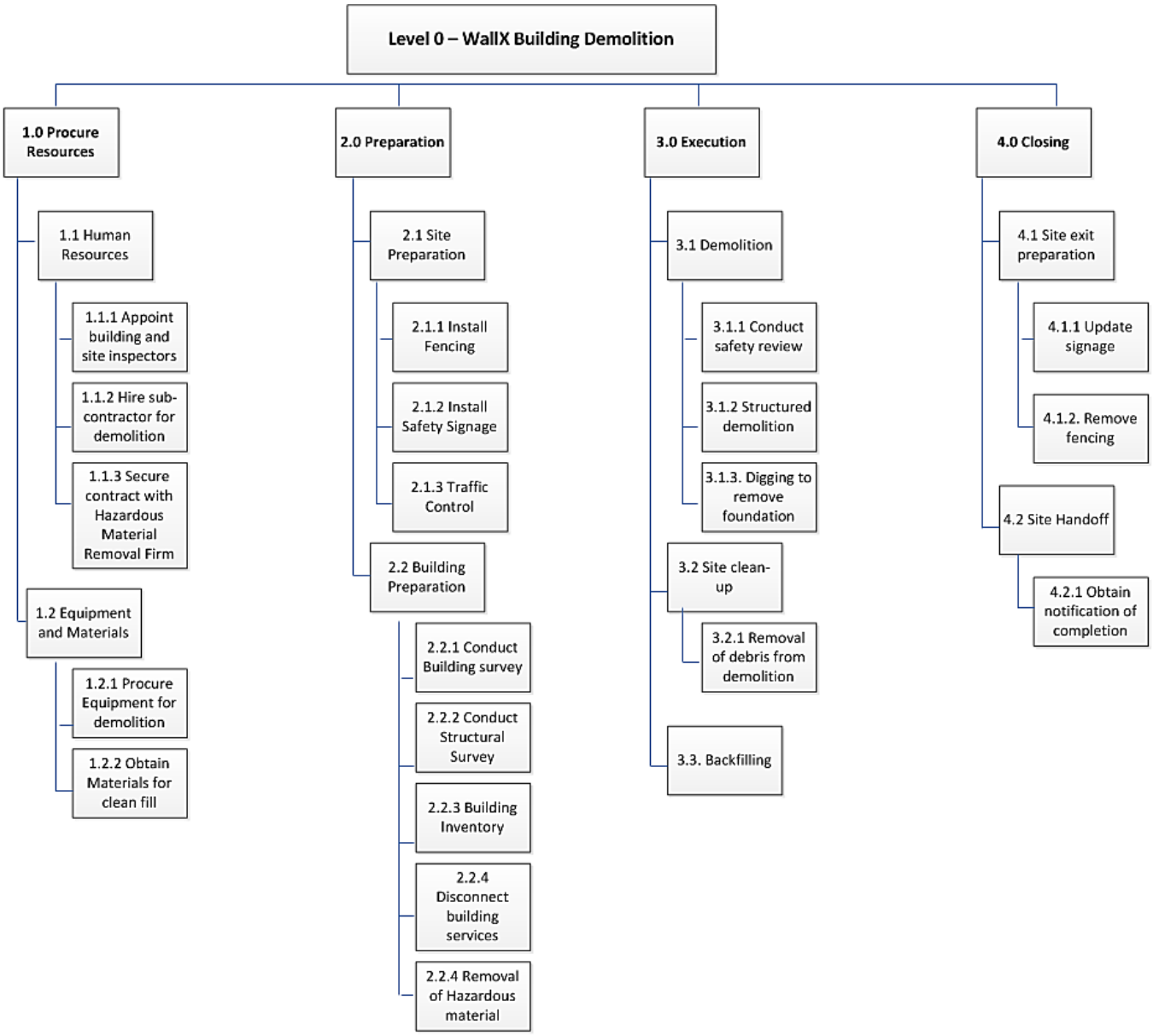


Figure 1- Work Breakdown Structure for WallX Building Demolition Project

Table 1- WBS Dictionary

WBS Level	WBS Code	WBS Element Name	Description of Work	Deliverable(s)	Committed Resources
3	2.2.3	Building inventory	Removing fixtures and other items from building that could interfere with demolition such as air conditioners, water tanks etc. Recycling waste is also included in this work package	Building Preparation	Hazardous Removal Firm, Safety Manager, Environmental Inspector
3	3.2.1	Removal of Hazardous Waste	This includes asbestos abatement investigation report, plan and notification of commencement by abatement team. Clean Air testing must be done at completion.	Building Preparation	Hazardous Removal Firm, Safety Manager, Environmental Inspector
2	3.3	Backfilling	Maintaining adequate ground support by adding clean fill and then leveling the ground in appropriate slope. Detailed topography of site included	Backfilling - Clean fill excavation	Demolition Contract Manager, Safety Manager
2	3.2	Site Clean-up	Clean-up includes removal of debris, recycling, dust minimization, disposal and waste management	Site clean-up - Removal of debris from demolition	Demolition Contract Manager, Registered structural engineer, Safety Manager
3	3.1.2	Structured Demolition	Demolition in a predetermined sequence as per demolition code carried out by mechanical plant	Demolition	Demolition Contract Manager, Safety Manager

3.4 Scope Validation

As the demolition project progresses, the project manager will verify interim project deliverables against the original scope as defined in the scope statement, WBS and WBS Dictionary. Individual deliverables and products are accepted only if they meet their respective acceptance criteria. Once it is verified that the deliverable meets scope criteria defined in the project plan, project manager will meet with project sponsor for formal acceptance of the deliverable. The project sponsor will accept the deliverable by signing a project deliverable acceptance document. This will ensure that project work remains within the scope of the project on a consistent basis throughout the life of the project.

An example for formal scope validation acceptance template is included in the Appendix

3.5 Scope Control

The Project Director and the project team will work together to control of the scope of Project Management Plan. The project team will leverage the WBS Dictionary by using it as a statement of work for each WBS element. The project team will ensure that they perform only the work described in the WBS dictionary and generate the defined deliverables for each WBS element. The Project Director will oversee the project team and the progression of the project to ensure that this scope control process is followed and progress is reported through Project Scope measurements tools.

3.6 Scope Change Management

Once scope is defined, changes must be handled through the formal change integration process. Any project team member or sponsor can request changes to the project scope. All change requests must be submitted to the project manager in the form of a project change request document. All change requests must provide justification and impact to schedule and budget to the project manager who will then evaluate the requested scope change. They will then either reject the change request if it does not apply to the intent of the project. If the change request receives initial approval by the project manager and team, the change request is submitted to project sponsor who will then formally accept the change by signing the project change control document or reject it. Upon acceptance of the scope change, project manager will update all project documentation and communicate change to all project team members and stakeholders.

4.0 Schedule Management Plan

The purpose of this schedule management plan is to establish the criteria and the activities for developing, monitoring and controlling the project schedule. When this plan is approved, no schedule changes will be permitted unless a request for change is processed in accordance with the procedures set forth in the change management plan.

This project is requested to be completed within 6 months by the client. However, SMEs suggest completion of project should be achieved by mid-October in order to prevent winter conditions which would make demolition more difficult. Therefore, a project end date of approximately 15th October 2018 is advised. The project manager will assume overall responsibility for schedule management and will be assisted by relevant SMEs, team members and stakeholders.

4.1 Define Activities

Defining activities refers to the process of identifying and documenting the specific actions to be performed to produce the project deliverables. In order to define activities, the work breakdown structure (WBS) found in the scope management plan was explored and deliverables and work packages were reviewed. Within each work package, activities were identified. Work activities represent the smallest level of decomposition. These were reviewed and endorsed by project team. All activities identified are listed in the activity attributes list found in Appendix.

4.2 Sequence Activities

Sequencing activities is the process of identifying relationships among the project activities. Sequencing can be performed using project management software or by using manual techniques.

In this case, MS project was used as a scheduling tool which uses logic based on precedence diagramming method (PDM) to construct the schedule model. All activities were populated into the system and were then carefully reviewed with SMEs and project team for sequencing. Tasks were then assigned logical relationships, successors, predecessors and dependencies (such as finish to start, start to start etc.) were identified. Any discretionary dependencies were identified in case they need to be explored in later portions of the project. For purposes of this project lag and lead times were not utilized due to experienced team however they can be a useful tool. Resources were also assigned to each activity.

Detailed information on sequencing logic is included in Activity Attributes list in Appendix.

4.3 Estimate Activity Durations

Estimating activity durations is the process of estimating the number of work periods needed to complete individual activities with the estimated resources. For purposes of this project, Program Evaluation Review Technique (PERT) was used with three-point estimation. PERT requires three types of estimates of time to calculate estimated time i.e. optimistic time, most likely time and pessimistic time. Three-point estimation is used to calculate the estimated time as per the following formula. Beta distribution was used as per SME's decision. Following is the formula used

$$tE = (tO+4tM+tP)/6$$

t = estimated time

tO = Optimistic time

tM = Most likely time

tP = Pessimistic time

Below is an example of an estimated duration for this project for activity 3.1.2 Structural demolition

tO = 10 days

tM = 15 days

tP = 20 days

tE = (10+ 4(15) + 20)/6 = 15 days (as stated in project schedule found in Appendix).

Similarly, estimates were obtained for all activities and are documented in the Gantt chart and activity attributes list which explains sequence.

It should be noted that these are only estimates. A range of +/- 5 days has been recommended by SME. As a result, a buffer of 7 days is added to the project overall completion date.

4.4 Develop Schedule

Developing the project schedule involved analyzing activity sequences, durations, resource requirements and schedule constraints to create the project schedule model.

Precedence diagramming method (PDM) was used to produce the schedule basis for this project. Critical path method (CPM) was used to create the model. CPM calculates the minimum project duration and determines the amount of scheduling flexibility on the logical network paths within the schedule model.

Note, this is a preliminary schedule and it will have to be reviewed by the project team and any resources tentatively assigned to project tasks. The project team and resources will then agree to

the proposed work package assignments, durations, and schedule. Once agreed, project sponsor will review and approve the schedule and it will then be baselined.

The Gantt chart, activity list and network diagram is attached in the Appendix.

A milestone list is tabulated below

Table 2 - Milestone List

Milestone	**Target Dates**
Kickoff	14 June, 2018
Planning complete	14 July, 2018
Secure contract with Hazrdous Material Removal firm	17 July, 2018
Traffic Permit Obtained	26 July, 2018
Site Clearance Letter	15 August, 2018
Obtain Notification of Completion	05 October, 2018
Project Complete Date	12 October, 2018

4.5 Reduce Project Duration

If it is deemed that project needs to be completed by an earlier specified date, then the following methods may be utilized for schedule compression

- CPM must be revisited. All original duration calculations reviewed.
- Review network logic.
- Look for opportunities to exploit discretionary dependencies.
- Crashing: Resource allocation to shorten activity durations
- Fast Tracking: Look at possible activity overlaps

4.6 Control Schedule

Controlling schedule involves monitoring the status of project activities to update project progress and manage changes to the schedule baseline to achieve the plan.

- Once schedule is baselined, any changes to schedule by members of the project team will be handled through appropriate change control process.
- The project manager and team will meet to review and evaluate the change and determine which tasks will be impacted, variance because of the potential change, and any alternatives or variance resolution activities they may employ to see how they would affect the scope, schedule, and resources.
- If, after this evaluation is complete, the project manager determines that the change is acceptable then a schedule change request must be submitted to project sponsor.
- Once the change request has been reviewed and approved, the project manager is responsible for adjusting the schedule and communicating to all team members and stakeholders.

4.7 Schedule Report

Following is the plan of how schedule will be reported.

- The project schedule will be reviewed and updated on at least a bi-weekly basis with actual start, actual finish, and completion percentages that are provided by task owners.
- The project manager will compare the actual information to the schedule baseline and calculate the completion percentages and any variances.
- The project manager will distribute the actual schedule information according to the terms set forth in the communication management plan. Where necessary, the project manager will meet with the project team members to determine the cause of any variance and discuss appropriate corrective measures.

5.0 Cost Management Plan

The Project Manager will hold the responsibility of managing, monitoring and controlling the cost of the Project tasks throughout the Project's life cycle. During weekly Status emails, Project Manager will provide the Project Stakeholders/Sponsor with an update on Project's cost performance which will be based on Earned Value Management from start of the project date till the last status meeting.

Project Manager will also hold the responsibility of any differences observed in the cost and revise options with the Project Sponsor in order to bring the total Project cost back on the calculated Budget.

5.1 Cost Management Approach

Costs for this project will be managed at the fourth level (Work packages) of the Work Breakdown Structure (WBS). Control Accounts (CA) will be created at this level to track costs.

- Unit of Measure to be used in Canadian Dollars rounded up to hundreds
- Financial Control and Thresholds:
    - The variance of 5% on any of the project activity cost will change the cost performance index to Yellow to indicate caution to be taken
    - The cost variance of 10% will change the cost performance index report to Alert stage – Values will appear red.
- Project Manager will be responsible to take corrective action in order to bring the budget back to the cautionary level if it reached to the alert stage.
- Corrective actions will require a project change request and be must approved by the Project Sponsor before it can become within the scope of the project.
- Earned Value Management technique will be used to measure project performance and progress throughout each phase of project work.
- Reporting for budget and cost management will be included and reviewed in the mid and at the end of each phase in the project status report. The Monthly Project Status Report will include a section labeled, "Cost Management". This section will contain the Earned Value Metrics identified in the previous section. All cost variances outside of the thresholds identified in this Cost Management Plan will be reported on including any corrective actions which are planned. Change Requests which are triggered based upon project cost overruns will be identified and tracked in this report.

5.2 Cost Estimating Approach

Project costs are estimated using **Bottom-up estimating** approach. Estimates for each individual work item will be done and summed up in order to get the total project cost. This is also referred to as detailed estimating. This will help establish costs that will be close to the actual cost of the work packages listed in the Project Work Breakdown Structure (WBS).

Type of Cost Estimate which will be used for this Project is **Budgetary**. For this Demolition project, dollar amounts for each work package have been allocated. This will allow the Project Manager to closely monitor the costs in comparison to the WBS.

5.3 Project Budget/Relation to WBS

The Budget is allocated to each phase in the Work Breakdown Structure. Work packages from each deliverable in each phase of the project are listed below and the budget s divided in relation to it. Project Manager will work closely with Finance Expert to ensure that the budget for the project remains within the outlined estimates.

Costs must be controlled and closely monitored to catch variances. If there is to be any meaningful change in the project cost, project budget is to be updated and the changes must be also reflected in the project scope.

The cost for this project is $350,000 with a 10% contingency reserve. The budget for this project is detailed below.

Phase 1		
Work Packages for Human Resources	Est. Cost	
Building and Site Inspector	$	25,000.00
Subcontractor for Demolition	$	40,000.00
Contract for Hazardous Material Removal Firm	$	35,000.00
Work Package for Procuring Equipment and Materials	Est. Cost	
Demolition Equipment (Rental)	$	10,000.00
Clean fill	$	15,000.00
Total Cost for Phase 1	**$**	**125,000.00**

Phase 2		
Work Packages for Demolition Site Preparations	Est. Cost	
Installation of Fencing	$	25,000.00
Safety Signage	$	5,000.00
Traffic Control	$	20,000.00
Work Package for Demolition Building Preparations	Est. Cost	
Building Survey	$	10,000.00
Structural Survey	$	20,000.00
Building Inventory	*to be recycled	

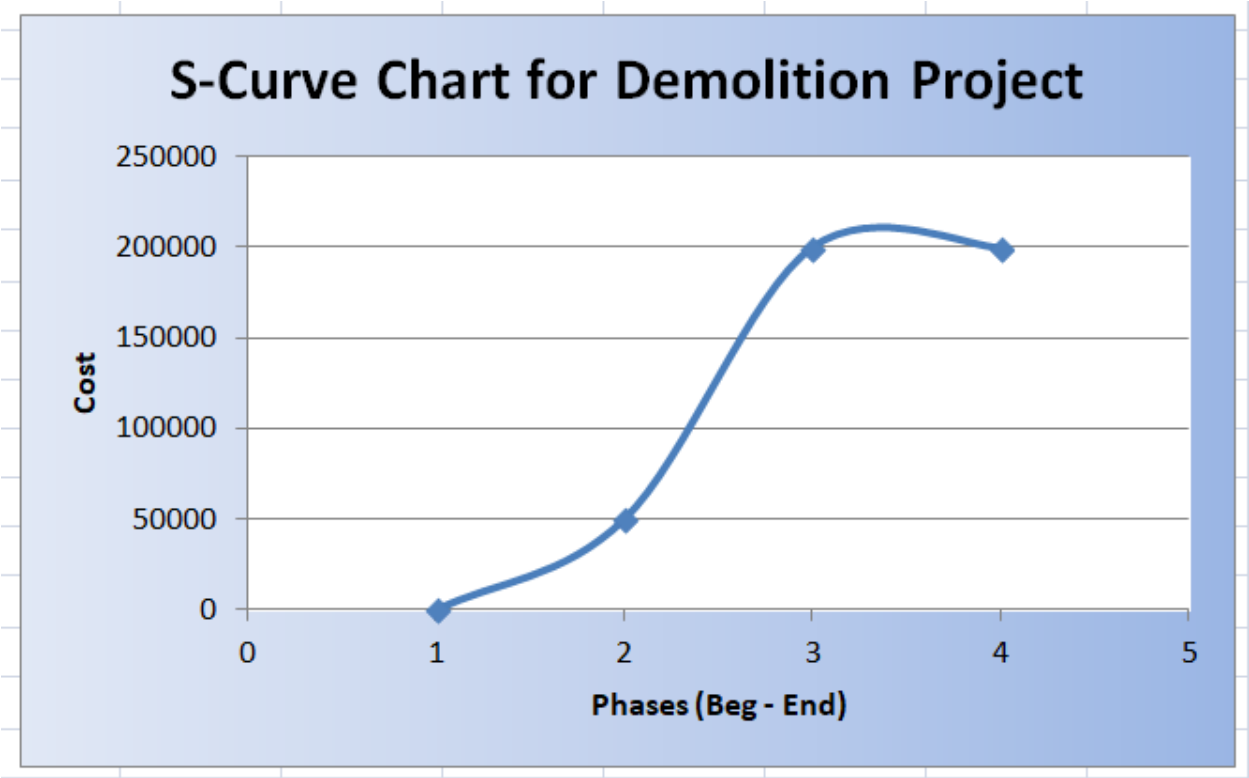
Disconnecting Building Services	$	20,000.00
Removal of Hazardous Material	$	35,000.00
Total Cost for Phase 2	**$ 85,000.00**	

Phase 3		
Work Packages for Execution of Demolition	Est. Cost	
Safety Review	$	15,000.00
Structured Demolition	$	80,000.00
Removal of Building Foundation	$	10,000.00
Work Package for Site Clean Up	Est. Cost	
Removal of Debris from Demolition	$	10,000.00
Total Cost for Phase 3	**$**	**115,000.00**

Phase 4		
Work Packages for Closing of the Demolition Project	Est. Cost	
Update Signage	$	10,000.00
Remove Fencing	$	10,000.00
Work Package for Site Handoff	Est. Cost	
Obtain Completion Signoff	$	5,000.00
Total Cost for Phase 4	**$ 25,000.00**	

Total Project Cost	**$**	**350,000.00**
Contingency Reserve	**$**	**35,000.00**
Cost Baseline	**$**	**385,000.00**

5.4 S-Curve Chart – Demolition Project



5.5 Cost Change Control Process

The cost change control process will follow the established project change request process. Approvals for project budget/cost changes must be approved by the project sponsor.

6.0 Quality Management Plan

The Quality Management Plan for demolition of WallX will establish the activities, processes and procedures for ensuring a quality product upon the conclusion of the project. The purpose of the plan is to:

- Define acceptable quality standards
- Ensure quality is planned
- Define how quality will be managed
- Define quality assurance activities

The final goal is to ensure quality product is produced that meets acceptance criteria i.e. the building is demolished and excavation filled to the highest standards of quality and safety.

6.1 Quality Management Approach and Tools

Quality improvements will be identified by any member of the project team. Each recommendation will be reviewed to determine the cost versus benefit of implementing the improvement and how the improvement will impact the product or processes.

Following tools will be used to evaluate if improvement is to be implemented or not.

- Cost benefit Analysis – financial analysis to estimate strength and weaknesses of all alternatives. Comparison will be made to ensure each quality activity is feasible with respect to cost and benefit
- Cost of Quality – This includes calculating prevention costs, appraisal costs and failure costs incurred over life of the product

If an improvement is deemed to be feasible to implement the project manager will update all project documentation to include the improvement and the quality manager will update the organizational documentation the improvement affects.

6.2 Quality of Work

The WallX Project team will perform assessments at planned intervals throughout the project to make sure all the processes are being correctly implemented and executed. For instance, building inventory is being properly recycled, demolition site is adequately cleaned and backfilled with appropriate material. Safety and quality standards must be adhered to at all times by contractors and workers.

In addition, process improvement is another aspect of quality assurance; therefore, all process improvement efforts are to be documented, implemented and communicated to all the stakeholders as changes are made.

6.3 Relevant Quality Standards:

Follow Occupational Health and Safety Act (OHSA) and regulations.
OBC (Ontario Building Code) requires a permit to begin any demolition work.
NAICS (North American Industry Classification System) 238910
ISO 9001:2015
OHSAS 18001
ISO21500 Project Management
Ontario Reg 278/05, 490/09 (Regulation for Asbestos Containing Material)

6.6 Interim Quality Management Plan Example

	Quality Planning	**Quality Control**	**Quality Assurance**	**Quality Improvement**
	Plan	Do	Check	Act
What Is Done	Appoint subcontractors for demolition. Site preparation. Conduct surveys. Safely demolish WallX building. Execute processes to prepare the site for future developments.	Daily/Weekly site Inspections of different processes of the project. Adequate use of demolition equipment. Inquire Safety standards and Regulations are being followed. Appropriate disposal of debris post demolition. Backfilling	Daily/Weekly meetings with site supervisor. Demolition equipment is being used to its full potential without any hurdles Ensure project site is following safety protocols. Site clearance at the end of the project. Quality material to be used as clean fill.	Increase the number of human resources to effectively complete the project. Increase signage for public to recommend alternative routes. Rent new/more demolition equipment to increase productivity.

7.0 Resource Management Plan

Resource management plan defines how to estimate, acquire, manage and use physical and team resources. It correlates work breakdown structure with its respective resources. It

7.1 Resource Responsibility Tool

Resource Responsibility Tool is one of the ways to exhibit how the responsibilities are divided within the project and project charter.

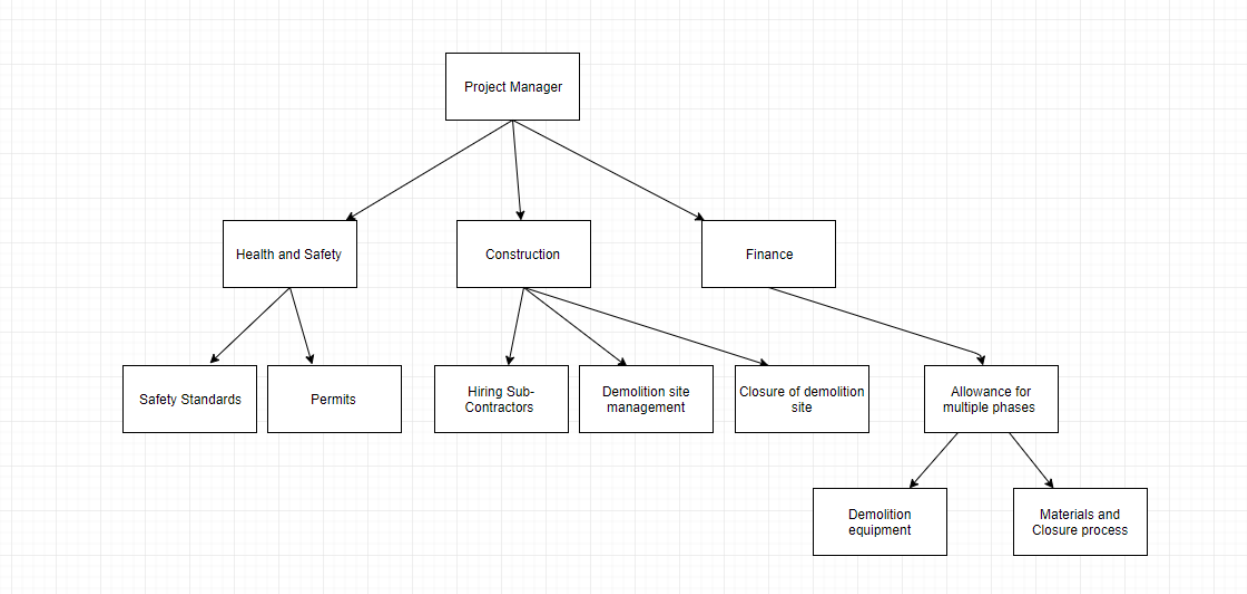


Figure 2 - Responsibility Diagram

7.2 Responsibility Assignment Matrix

Following is a RACI chart depicting an example of how responsibilities are assigned in this project

Team Charter:

1) Project management team is to follow and abide by FAAM Inc. predefined values and culture of the company.
2) Communication guidelines mentioned in Communication management plan are to be strictly followed for all or any type of matter.
3) Final decisions are to be made by Project Sponsor by consulting with the Project management team.
4) Any major conflict (Scheduling, Staffing, permits etc.) is to be brought up to Project manager's attention. Appropriate measures will be taken for an earliest resolution.

Table 3 - RACI Chart

RACI Chart	**Persons**				
Activity	**Project Manager**	**Health and Safety Expert**	**Construction Expert**	**Finance Expert**	**Executive Sponsor**
Hiring Subcontractors for Demolition	A	I	R	C	I
Equipment and Material	A	I	R	C	I
Site Prepared/ Safety Inspections	A	R	R	I	I
Surveys conducted	A	I	I	I	I
Demolition Started/Completed	A	I	R	I	I
Recycling/Backfilling	A	I	R	I	I
Closing/Completion	A	I	R	I	I

R = Responsible A = Accountable C = Consult I = Inform

8.0 Communication

The overall objective of a Communications Management Plan is to promote the success of a project by meeting the information needs of project stakeholders. The Communications Management Plan (CMP) defines the project's structure and methods of information collection, screening, formatting, and distribution and outline understanding among project teams regarding the actions and processes necessary to facilitate the critical links among people, ideas, and information that are necessary for project success.

The intended audience of the *WallX Building Demolition project* CMP is the project manager, project team, project sponsor and any senior leaders whose support is needed to carry out communication plans.

8.1 Stakeholder Communication Requirement

Name	Title	Contact	Communication	Vehicle	Comments
Stakeholder	Businessman	647-999-8671 stakeholder1@gmail.com	Demolition status update,	Email/ Phone	Status update report to be sent weekly
Stakeholder	Businessman	647-999-8672 stakeholder2@gmail.com	Milestones Updates	Conference call	Explain all the milestones delivered and plans to achieve other deliverables

- As part of identifying all project stakeholders, the project manager will communicate with each stakeholder to determine their preferred frequency and method of communication. This feedback will be maintained by the project manager in the project's Stakeholder Register.
- In addition to identifying communication preferences, stakeholder communication requirements must identify the project's communication channels and ensure that stakeholders have access to these channels.
- stakeholders have been identified and communication requirements are established, the project team will maintain this information in the project's Stakeholder Register and use this, along with the project communication matrix as the basis for all communications

8.2 Communications Matrix

Vehicle	Target	Description Purpose	Frequency	Owner	Distribution Vehicle	Internal/ External	Comments
WallX status Report	Stakeholders	One page communication of project progress and deliverable status	Weekly	John	Email – Primary Phone – Secondary	Internal	Project Status Report

Vehicle	Target	Description Purpose	Frequency	Owner	Distribution Vehicle	Internal/ External	Comments
WallX Conference Call	Stakeholders	To provide information and update on completed milestones and provide a plan to successfully achieve other milestones in timely manner	Monthly	Mitch	Conference Call/ Email	Internal	Milestone Status Report

8.3 Communications Management Constraints

- All project communication activities will occur within the project's approved budget, schedule, and resource allocations.
- The project manager is responsible for ensuring that communication activities are performed by the project team and without external resources which will result in exceeding the authorized budget.
- Communication activities will occur in accordance with the frequencies detailed in the Communication Matrix in order to ensure the project adheres to schedule constraints.

9.0 Stakeholders Management

The Project Stakeholder plan will identify the stakeholders involved in the Demolition project as listed in the Project Charter. It will also indicate which approach will be used to manage and involve stakeholders based on their needs/interests and impact on the Project.

The responsibly to manage stakeholder's needs of communication and involvement on the project resides with the Project Manager. The end goal to be achieved from Stakeholder Management plan is to develop a plan to engage stakeholders in their required phases of the Project in order to ensure the all Project deliverable are met and the stakeholders are aware of the progress throughout.

9.1 Roles and Responsibilities

The table of Roles and Responsibilities below provides descriptions of duties for project roles in Stakeholder management.

Name	Role	Responsibility
Mitch	Health and Safety Expert	• *Ensure all safety measures are in place prior to the execution phase of the Project (Demolition)* • *Daily Review of the site prior to the subcontractors working on the Demolition Site* • *Analyze any risk factors that could cause workplace safety hazard and educate the workers*
Fahid Chaudhry	Construction Expert	• *Ensure the contractors are complying with the rules and regulations and if training is requiring, hold a training session where Fahid is to go over the conduct codes.* • *Oversee subcontracts, electricians and work alongside health and safety expert to ensure industry stands are met.*
John	*Finance Expert*	• *Work alongside Project Manager to ensure the Project is within Budget and if there is any variance present, they are to be investigated and explained to the project Sponsor.* • *Ensure clients best interests are kept throughout each phase of the project.* • *Communicate Financial information which could impact the client as well as the project itself in a timely manner to avoid impact to the project*
Ronald Caldwell	*Executive Sponsor*	• *Oversee Project and ensure it is within the Project Strategy and is aligned with Organizational Goals* • *Governs Project Risk* • *Recommend and provide guidance on issues in a timely manner* • *Approves any increase in the budget and approval of any additional resources required to a successful project implementation* • *Manages Relationships and builds trust between the Project Team*
Fahid Choudhry	*Project Manager*	• *Oversee project through each phase and ensure Project Scope is met throughout Project Life cycle.* • *Ensure Stakeholders communication needs are met.*

Name	Role	Responsibility
		• *Costs associated with the Project are within Budget* • *Any change required in the project goes through the change management process and is documented and signed by the Project Sponsor.* • *Act as the team leader* • *Manage risk and issues and find alternatives to mitigate risk.*

9.3 Stakeholder Management Processes and Engagement Strategy

In the section below, the approach to managing stakeholders will be listed. This will include stakeholder identification, strategies involved to engage the stakeholders on the project and stakeholder's power and interest throughout Project's life cycle.

9.4 Stakeholder Identification

Major Stakeholders included in this Project are listed in the Project Charter as well as in the roles and responsibility chart above. Stakeholder Register will be used to identify and manage stakeholders. Any additional stakeholders which may need to be added in the register will be updated throughout the project phases with an updated version of stakeholder management plan.

9.5 Stakeholder Engagement Strategy

Stakeholder assessment matrix and register will be used to determine the level of engagement for each stakeholder. All key stakeholders (listed in Stakeholder Register) will be included in the weekly status emails ad conference calls in order to get the updates from the project Manager and provide their feedback and bring any questions and concerns they may have regarding the project deliverables.

Phase 1: Finance Expert alongside construction expert will be working together with Project Manager to ensure estimated costs for human recourses stays within the budget noted in Cost Management Plan.

Phase 2-4: All 4 Key stakeholders will need to be engaged highly as everyone plays a crucial role in each aspect of their responsibility of the project. Finance Expert will be needed to ensure that the budget stays within the estimates of the project throughout the lifecycle. Health and Safety is a fundamental aspect of this project as ensuring safety of the workers will prevent and mitigate any risk of delay in the project completion. Construction expert will work with the health and

safety expert to ensure workers are complying with the safe work practices and the project is completed within the scheduled time and budget.

10.0 Risk Management Plan

- A risk is an event or condition that, if it occurs, could have a positive or negative effect on a project's objectives.
- Risk Management is the process of identifying, assessing, responding to, monitoring, and reporting risks. This Risk Management Plan defines how risks associated with the Risk Management project will be identified, analyzed, and managed.
- The intended audience of this document is the project team, project sponsor and management.
- Client Risk Threshold is +/- 5%

10.1 Risk Management Process

The project manager working with the project team and project sponsors will ensure that risks are actively identified, analyzed, and managed throughout the life of the project. Risks will be identified as early as possible in the project to minimize their impact. The steps for accomplishing this are outlined in the following sections.

Risk Identification

- Risk identification will involve the project team, appropriate stakeholders, and will include an evaluation of environmental factors, organizational culture and the project management plan including the project scope. Careful attention will be given to the project deliverables, assumptions, constraints, WBS, cost/effort estimates, resource plan, and other key project documents.
- A Risk Management Log will be generated and updated as needed and will be sent out to project team, sponsors and management in timely manner via Email

Risk Analysis

- All risks identified will be assessed to identify the range of possible project outcomes. Risk Matrix will be used to determine which risks are the top risks to pursue and respond to and which risks can be ignored.

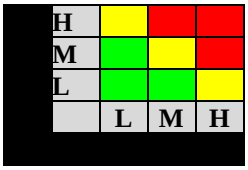
Qualitative Risk Analysis

The probability and impact of occurrence for each identified risk will be assessed by the project manager, with input from the project team using the following approach:

Probability

- High – Greater than 70% probability of occurrence
- Medium – Between 30% and 70% probability of occurrence
- Low – Below 30% probability of occurrence

Impact



- High – Risk that has the potential to greatly impact project cost, project schedule or performance
- Medium – Risk that has the potential to slightly impact project cost, project schedule or performance
- Low – Risk that has relatively little impact on cost, schedule or performance

Risks that fall within the RED and YELLOW zones will have risk response planning which may include both a risk mitigation and a risk contingency plan.

Quantitative Risk Analysis

Analysis of risk events that have been prioritized using the qualitative risk analysis process and their affect on project activities will be estimated, a numerical rating applied to each risk based on this analysis, and then documented in this section of the risk management plan.

Risk Response Planning

Each major risk (those falling in the Red & Yellow zones) will be assigned to a project team member for monitoring purposes to ensure that the risk will not "fall through the cracks".

For each major risk, one of the following approaches will be selected to address it:

- **Avoid** – eliminate the threat by eliminating the cause
- **Mitigate** – Identify ways to reduce the probability or the impact of the risk
- **Accept** – Nothing will be done
- **Transfer** – Make another party responsible for the risk (buy insurance, outsourcing, etc.)

- For each risk that will be mitigated, the project team will identify ways to prevent the risk from occurring or reduce its impact or probability of occurring.
- For each major risk that is to be mitigated or that is accepted, a course of action will be outlined for the event that the risk does materialize in order to minimize its impact.

10.2 Risk Monitoring, Controlling, And Reporting

- The level of risk on a project will be tracked, monitored and reported throughout the project lifecycle.
- All project change requests will be analyzed for their possible impact to the project risks.
- Management will be notified of important changes to risk status as a component to the Executive Project Status Report.

10.3 Tools and Practices

A Risk Register will be maintained by the project manager and will be reviewed as a standing agenda item for project Email updates

Example of Risk register can be found in Appendix.

11.0 Procurement Management Plan

WallX demolition project will involve acquiring sources internally within FAAM Inc and also outsourcing the demolition process to a subcontractor. Following are the steps to project Procurement Management Plan

1. Project team will be renting demolition equipment.
2. Project will comply with Firm Fixed Price contract.
3. Healthy and safety, Human resources and management aspects of the project is allotted to FAAM Inc., whereas site demolition, materials and heavy demolition equipment is to be acquired from a sub-contractor.
4. Procurement risks are mitigated by Project manager if he/she gets it approved by Project Sponsor.
5. Sub-contractors will be managed by Construction Expert, and he/she will establish deliverable and deadlines of the project.
6. Sub-contractors are to follow schedule (excluding improbable constrains) and deadlines defined in management plan.

Procurement Contract

1. Firm fixed price (FFP) contract is binding demolition subcontractor and FAAM Inc.
2. Selection criteria of a sub-contractor with FFP contract will be don't via bidding process.
3. Sub-contractors are to submit a "Request for Proposal (RFP)" and "Request for Quote (RFQ)" in order to get the contract.

Following are the items/services sub-contractors are invited to place a bid on

Item/Service	Justification	Needed By
Human Resources	To perform site inspections, removing and eliminating goods from WallX building and performing surveys.	FAAM Inc.
Demolition Equipment	To demolish the building and clean up the debris at the demolition site.	Sub-contractor
Top Soil	To level the ground and cover the large area post demolishing.	Sub-contractor

APPENDIX

Change log Template

Change Log							
Project: WallX Building Demolition						Date: Aug 15, 2018	
Change No.	**Change Type**	**Description of Change**	**Requestor**	**Date Submitted**	**Date Approved**	**Status**	**Comments**
1.0	Timeline extension	Asbestos Removal will require an additional day for completion	Asbestos removal crew	August 10, 2018	August 12, 2018	Approved	Timeline extension for asbestos removal has been accepted. No significant change to the project

Lessons Learned Document

Lesson learned will be discussed at the end of each phase of the project. Continually recording Lessons-Learned throughout the project is the best way to ensure that they are accurately recorded. At the end of the project lesson learned discussion and comments will be shared with project team, stakeholders and project sponsors

The following template will be used to gather information.

Project Lesson Learned Discussion	
At the end of WallX demolition Project, Lesson Learned discussion will take place with the entire project team Use the questions below to summarize your Lessons-Learned discussion. Enter comments in the areas provided. **Focus on Lessons Learned that will help in future projects.** (*Insert rows as needed*)	
A. List this project's three biggest successes.	
Description	*Factors that Promoted this Success*
B. List other successes that the team would like highlighted:	
Description	*Factors that Promoted this Success*
C. List areas of potential improvement along with *high-impact* improvement strategies:	
Description	*Factors that Promoted this Success*

Requirements Traceability Matrix

Project Name	**Wall X Building Demolition**	**Date**	17 July 2018
Project Number	**1.0**	**Cost Center**	1235
Project Manager	Mitch	**Project Sponsor**	Ronald Caldwell

ID Number	Requirement Name and Description	Project Objective	WBS ID	WBS Deliverable
1	Hire top of the line demolition team as subcontractor	Ensure a timely, safe and smooth demolition	1.1	Human Resources
2	Hire best in industry inspectors	Ensure thorough inspection is carried on site and building to catch all potential hazards	1.1	Human Resources
3	Obtain demolition equipment from reliable source	Reduce delays to project due to equipment breakdown	1.2	Equipment and Materials
4	In the plan, include requirement for exit preparation	Make sure all demolition related equipment, signage and materials are removed prior to handover and no risk for next team	4.1	Site exit preparation

Scope Validation Acceptance Form

Deliverable
In Scope/Out of Scope

Decision	
☐ Approved	☐ Rejected
☐ Approved with modifications	☐ Deferred
Required Modifications	
Additional Comments	

_____ _____

Approver's Printed Name Date

_____

Title

_____

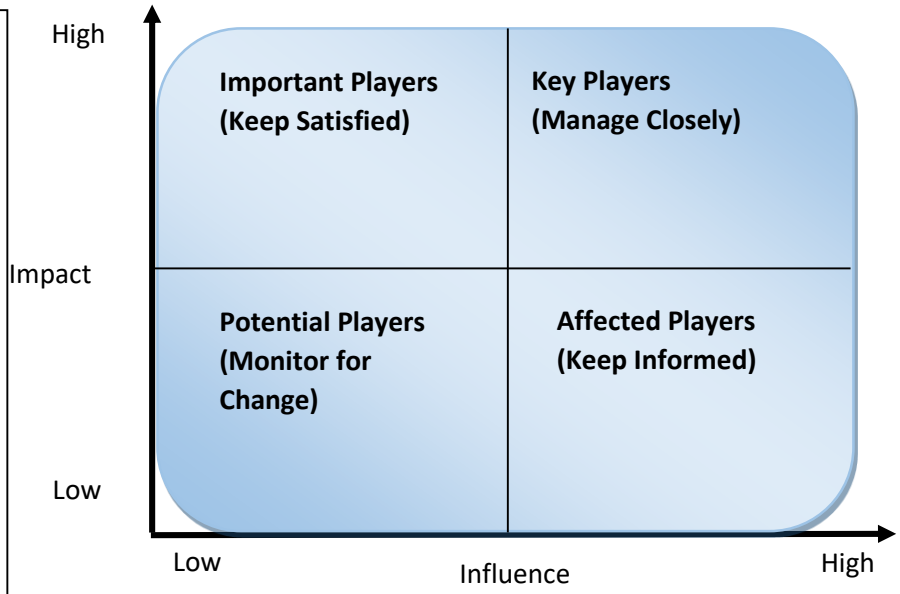
Signature

Stakeholder Register and Assessment Matrix

Name	Title	Role on Project	Expectations	Influence	Impact	Stakeholder Category & Action (See Appendix A grid to assign category)
Annam Shakil	Health and Safety Expert	Project Team Member	Compliance with health and safety regulations, mitigating risk for the workers and safe execution of the project	High	High	Key Player (manage closely)
Fahid Chaudhry	Construction Expert	Project Team Member	Project phases to be completed as per the industry standards while safety standards are met Completion of project within the scope and cost estimates/schedule.	High	High	Key Player (manage closely)
Ayla Ahmed	Finance Expert	Project Team Member	Project Budget stays within the estimated costs and any variance in the costs to be notified if greater than 10%	High	High	Key Player (manage closely)
Ronald Caldwell	Executive Sponsor	Sponsor	Project scope is being met and sufficient recourses are present to have project work done within budget and schedule.	High	High	Key Player (manage closely)

Stakeholder Power/Interest Grid

Key Player - High impact, high Influence: these are the stakeholders that must be fully engaged, and make the greatest efforts to satisfy.
Important Player - High impact, low Influence: put enough work in with these stakeholders to keep them satisfied, but not so much that they become bored with your message.
Affected Player - Low impact, high Influence: keep these stakeholders adequately informed, and talk to them to ensure that no major issues are arising. These stakeholders can often be very helpful with the detail of your project.
Potential Player - Low impact, low Influence: again, monitor these stakeholders, but do not bore them with excessive communication.



Risk Matrix

		Impact			
		NEGLIGIBLE small/unimportant; not likely to have a major effect on the operation of the event / no bodily injury to requiring minor first aid injury	MARGINAL minimal importance; has an effect on the operation of event but will not affect the event outcome / requires medical treatment	CRITICAL serious/important; will affect the operation of the event in a negative way / suffers serious injuries or medical treatment of minors	CATASTROPHIC maximum importance; could result in disaster/death; WILL affect the operation of the event in a negative way / death, dismemberment or serious injury to minors
Probability	LOW This risk has rarely been a problem and never occurred at a college event of this nature	LOW (**1**)	MEDIUM (**4**)	MEDIUM (**6**)	HIGH (**10**)
	MEDIUM This risk will MOST LIKELY occur at this event	LOW (**2**)	MEDIUM (**5**)	HIGH (**8**)	EXTREME (**11**)
	HIGH This risk WILL occur at this event, possibly multiple times, and has occurred in the past	MEDIUM (**3**)	HIGH (**7**)	HIGH (**9**)	EXTREME (**12**)

Risk Register

List All Activities *Your activity name*	**Associated Risk(s)** *Risk(s) associated with the activity*	**Severity** *Level of impact*	**Probability** *The chances of that risk happening*	**Risk Score** *Risk score, found by combining impact and probability on the risk matrix*	**Method(s) to Manage the Risk** *A list of methods you will use to minimize the chances of the risk happening and/or the resulting damages of the risk*
Exposure to hazardous substance	1. Health and Safety	2- High (8)	Low (2)	High	1- Access restricted to authorized persons 2- Hazardous materials are removed prior to the commencement of demolition
Premature collapse	3- Timeline 4- Health and safety	1. Critical (6)	Low (2)	Medium	1- Demolition work carefully planned and sequenced to prevent premature collapse 2- All workers undertaking other work in demolition proximity kept at safe distance

Issue Log Example

Time Needed: 2 hours to set up; 1 Hour to Execute

#	Issue	Description	Reported By	Assigned To	Status	Priority	Date Reported	Date Resolved	Resolution
1	Safety Measures	P.M found some workers without their safety hat in demolition zone	Fahid	Mitch	Open	High	01-Aug-18	05-Aug-18	A lunch meeting with all workers to concentrate on the importance of work place safety measures.

Activity Attributes and List

No	Task Name	Duration	Start	Finish	Predecessors	Resource Names	Sequencing reason
1	**1.0 Procure Resources**	**7 days**	**Tue 17-07-18**	**Wed 25-07-18**			
2	**1.1 Human Resources**	**7 days**	**Tue 17-07-18**	**Wed 25-07-18**			
3	1.1.1 Appoint building and site inspectors	7 days	Tue 17-07-18	Wed 25-07-18		HR Team, Project Manager	These activities need to be completed at the beginning as Preparation phase cannot start without resources However they are not dependent upon each other. Human resources before materials and equipment as demolition subcontractor will have to collect those
4	1.1.2 Hire subcontractor for demolition	4 days	Tue 17-07-18	Fri 20-07-18		HR Team, Project Manager	
5	1.1.3 Secure contract with Hazardous Material Removal Firm	0 days	Tue 17-07-18	Tue 17-07-18		Procurement Lead, SME	
6	**1.2 Equipment and Materials Procurement**	**4 days**	**Tue 17-07-18**	**Fri 20-07-18**			
7	1.2.1 Procure Equipment for demolition	4 days	Tue 17-07-18	Fri 20-07-18	4	Procurement Lead, SME	Equipment needs to be procured after hiring subcontractor to make sure it fits their needs. Once equipment is procured, execution phase can begin. Therefore, it has a finish to start dependency
8	1.2.2 Obtain Materials for clean fill	4 days	Tue 17-07-18	Fri 20-07-18	4	Procurement Lead, SME	Materials needs to be procured after hiring subcontractor to fits their needs. Once materials are obtained, backfill phase can begin. It has a finish to start dependency
9	**2.0 Preparation**	**12 days**	**Tue 17-07-18**	**Wed 01-08-18**			
10	**2.1 Site Preparation**	**6 days**	**Wed 18-07-18**	**Thu 26-07-18**			
11	2.1.1 Install Fencing	2 days	Mon 23-07-18	Tue 24-07-18	4	Contract Manager	This can begin once sub-contractor hired and team on site. It has a finish to start dependency
12	2.1.2 Install Safety Signage	2 days	Mon 23-07-18	Tue 24-07-18	4	Contract Manager	This can begin once sub-contractor hired and team on site. It has a finish to start dependency
13	**2.1.3 Traffic Control**	**6 days**	**Wed 18-07-18**	**Thu 26-07-18**			
14	Traffic Permit obtained	0 days	Thu 26-07-18	Thu 26-07-18	2	Contract Manager	Traffic control permit can be obtained after subcontractor hired as their team will arrange for it. It has a finish to start dependency. This step can also be completed before phase 2 begins but this is discretionary dependency.
15	Traffic Signage and Control	5 days	Wed 18-07-18	Tue 24-07-18	14	Contract Manager, Safety Manager	Traffic signage and control can only be placed after permit obtained
16	**2.2 Building Preparation**	**12 days**	**Tue 17-07-18**	**Wed 01-08-18**			
17	2.2.1 Conduct building survey	3 days	Thu 26-07-18	Mon 30-07-18	3	Inspection Team	Building survey can be done after inspector hired. It has a finish to start dependency. Ideally it should be done after the fencing and signage completed but this is a discretionary dependency
18	2.2.2 Conduct Structural Survey	3 days	Thu 26-07-18	Mon 30-07-18	3	Inspection Team	Structural survey can be done after inspector hired and so has a finish to start dependency. Ideally it should be done after the fencing and signage completed but this is a discretionary dependency

No	Task Name	Duration	Start	Finish	Predecessors	Resource Names	Sequencing reason
19	2.2.3 Building Inventory	3 days	Thu 26-07-18	Mon 30-07-18	17	Contract Manager	Building inventory must be completed after building survey to avoid any safety hazards. Finish to start dependency
20	2.2.4 Disconnect building services	4 days	Tue 17-07-18	Fri 20-07-18	17	Contract Manager	Disconnecting services must be completed after building survey to avoid any safety hazards. Finish to start dependency
21	**2.2.5 Removal of Hazardous Materials**	**12 days**	**Tue 17-07-18**	**Wed 01-08-18**			
22	2.2.5.1 Asbestos Abatement	10 days	Tue 17-07-18	Mon 30-07-18	5, 17	Hazardous Material Removal Team	This activity cannot start unless Hazardous removal team is hired; this is a mandatory finish to start dependency. Building survey must also be completed to know the extent of hazardous material and is another finish to start dependency.
23	2.2.5.2 Clean Air Testing	2 days	Tue 31-07-18	Wed 01-08-18	22	Inspection Team	Clean air testing can be done after asbestos abatement, is a finish to start dependency
24	2.2.5.3 Site Clearance Letter	0 days	Wed 01-08-18	Wed 01-08-18	23	Project Manager	Letter to be obtained after clean air testing positive therefore finish to start dependency
25	**3.0 Execution**	**27 days**	**Thu 02-08-18**	**Fri 07-09-18**	**24**		Execution phase can only begin after Removal of hazardous material is completed (finish to start)
26	**3.1 Demolition**	**27 days**	**Thu 02-08-18**	**Fri 07-09-18**			
27	3.1.1 Conduct Safety Review	2 days	Thu 02-08-18	Fri 03-08-18	24	Safety Manager	Safety review can be carried out after site clearance letter that hazardous material is abated otherwise it can pose a safety risk (mandatory finish to start dependency) Safety review must be carried before demolition starts.
28	3.1.2 Structural Demolition	15 days	Mon 06-08-18	Fri 24-08-18	27	Contract Manager	Demolition will begin after safety review in order to progress in safe and smooth manner (finish to start dependency)
29	3.1.3. Digging to remove Foundation	10 days	Mon 27-08-18	Fri 07-09-18	28	Contract Manager	Once demolition is completed in structural sequential fashion, then foundation can be digged below surface (finish to start dependency)
30	**3.2 Site Clean up**	**8 days**	**Mon 27-08-18**	**Wed 05-09-18**			
31	3.2.1 Removal of Debris from Demolition	8 days	Mon 27-08-18	Wed 05-09-18	28, 29 FF	Contract Manager	According to SMEs, debris needs to be removed after demolition completed (finish to start dependency) and will not finish until digging below grade level has been completed to ensure all of debris is removed. Once digging is complete, removal of debris can then be completed (finish to finish dependency)
32	**3.3 Backfilling**	**2 days**	**Thu 06-09-18**	**Fri 07-09-18**			
33	Top Soil added	2 days	Thu 06-09-18	Fri 07-09-18	8,31	Contract Manager	Backfilling cannot begin unless materials obtained for clean fill (Finish to start dependency) and until debris is completely removed (finish to start)
34	Site leveled	1 day	Thu 06-09-18	Thu 06-09-18	33SS	Contract Manager	Leveling can be performed after adding top soil. However as leveling progresses, more top soil might need to be added to properly level. Therefore they have start to start dependency.
35	**4.0 Closing**	**22 days**	**Fri 07-09-18**	**Mon 08-10-18**			
36	**4.1 Site Exit preparation**	**5 days**	**Fri 07-09-18**	**Thu 13-09-18**			

No	Task Name	Duration	Start	Finish	Predecessors	Resource Names	Sequencing reason
37	4.1.1 Update signage	2 days	Fri 07-09-18	Mon 10-09-18	34	Contract Manager	When site leveling is complete and backfilling is complete, site will no longer be construction zone and will be deemed safe. All signage will be updated. Finish to start dependency with site level task.
38	4.1.2 Remove Fencing	3 days	Tue 11-09-18	Thu 13-09-18	37	Contract Manager	Once safety review and signage updated, fencing can be removed (finish to start)
39	**4.2 Site Handoff**	**1 day**	**Fri 05-10-18**	**Mon 08-10-18**			
40	4.2.1 Obtain notification of completion	0 days	Fri 05-10-18	Fri 05-10-18	38	Project Manager	Letter of completion will only be obtained after all planned tasks are appropriately completed and thus finish to start dependency with last step i.e. site exit preparation completion, removing fencing.
41	**Project complete Date**	0 days	Fri 12-10-18	Fri 12-10-18	40	Project Manager	Once letter of completion obtained, project manager can mark project complete (finish to start link on milestone). A small buffer (a week) is added to final completion milestone.

Project Status Report Example

Project Summary

REPORT DATE	PROJECT NAME	PREPARED BY
July 16, 2018	WallX Demolition Project	Annam shakil

Status Summary

Progress on building and structural survey

Project Overview

TASK	% DONE	DUE DATE	NOTES
Surveys	80%	24 July 2018	On Track

Budget Overview

CATEGORY	SPENT	% OF TOTAL	ON TRACK?	NOTES
Survey	$30,000	100	Yes	

CONCLUSIONS/RECOMMENDATIONS

Building and structural survey are on track and will be done by due date

Gantt Chart

Network Diagram