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Ana	ly	15		S

Chapel

Memorial Walls

blocks

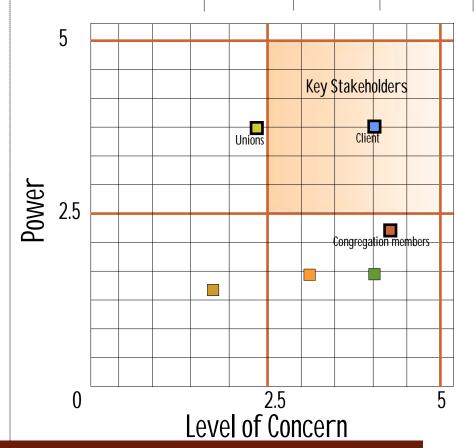
Material description Quantity R/mxm R/m R/item Amount Total 250 11 500 Custom designed precast concrete 46mxm blocks Profiled Copper roof covering 226mxm 1 500 339 000 Timber Roof Structure 100 226mxm 22 600 Timber Chapel benches 131m 91 700 700 Concrete roof slab 115mxm 380 43 700 Concrete floor with screed 190mxm 80 15 200 535 400 Slate wall cladding 4 500 45mxm 100 + 10% 230 brick wall 160 7 200 45mxm R588 940 Custom designed precast concrete 268mxm 500 134 200 blocks with openings Custom designed copper frames 1202 800 961 600 Slate wall cladding 250 46mxm 270 000 230 plastered brick wall 200mxm 160 32 000 Black marble tiles 292mxm 200 58 472 -1 564 522 Concrete paving blocks 79 000 790mxm 100 + 10% Custom designed precast concrete 117mxm 250 29 250 R1 720 974

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Appendix 1

low 1 - 5 high

Stakeholders		Power			Level of Concern		
	Influence on others	Direct labor control	Y- axis	Technical	Social	X-ais	
	0.3	0.7		0.3	0.7		
Client (Building Commission)	4	5	4.7	5	4	4.3	
Congregation members	3	2	2.3	3	5	4.4	
Neighbors	4	1	1.9	1	4	3.1	
Environment	3	1	1.6	1	2	1.7	
Unions	1	5	3.8	1	3	2.4	
City Council	4	1	1.9	1	4	3.1	



The most important stakeholders have been identified and sorted according to their power and level of concern. From the resulting graph the Key Stakeholders can be identified. It is clear that the client is the most important stakeholder with the most power and greatest level of concern. The next two stakeholders of importance are the Unions and the Congregation members. The graph illustrates that the Unions can be a possible risk if the laborers are not treated legally and fairly. This is valuable information and the project manager can pay attention to the requirements of the union. The graph indicates that the congregation members have a relatively high influence and should be respected where involved in the project.

The City Council and neighbors are not stakeholders with immense influence but should still be considered in decision making and the development. The environment is the stakeholder that receives lowest priority. This is reflected in the direction of focus in the project. Social issues are much more important than environmental concerns.

Stakeholders

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Risks

Table Key:

Consolipazano

consequence	
Catastrophic	5
Major	4
Moderate	3
Minor	2
Insignificant	1
ŭ	

Likelihood

Likely	
Moderate	
Unlikely	
Rare	

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Risk Result High Medium

Low

Identifying Possible Risks:

Stakeholders as risks:

- Unions
- Neighbors

Typical internal risks

- Proper cost analysis
- Communication between church and building commission
- Management of the Wall after completion

Typical unpredictable external risks

- Natural hazards :Storms danger to Chapel roof structure
- Deliberate intent: Vandalism of the wall
- Failure of Completion: financial support

Typical predictable external but uncertain risks

Availability of raw material

Risk Description	Consequence	Likelihood	Risk factor	Risk Result	Mitigation measure	
Trade Unions	3 Moderate	3 Unlikely	9	Medium	The building commission must be fully aware of all Labor Legislation and should always comply. The laborers must be treated fairly and just. Ensure good communication with Unions.	
Neighbors	3 Moderate	3 Unlikely	9	Medium	The congregation must maintain good relations with the neighbors. The activities at the church should not disturb the peace. They should have prior notice of major happenings.	
Proper cost analysis	4 Major	4 Moderate	16	High	All custom designed elements must be carefully analyzed for a proper cost analysis. Specialists must be employed for accurate estimates.	
Communication between church and building commission	4 Major	5 Likely	20	High	In such a large project with so many people involved, good communication is indispensable. Regular meetings and updates must be held to ensure good communication.	
Management of the Wall after completion	3 Moderate	3 Unlikely	9	Medium	The letting of niches must be managed effectively in order to generate an income for the church. Responsibilities must be appointed to individuals.	

Appendix 1

Risk Description	Consequence	Likelihood	Risk factor	Risk Result	Mitigation measure	Risks
Natural hazards : Storms danger to Chapel roof structure	4 Major	3 Unlikely	12	Medium	The copper roof is the most expensive element in the Chapel and will be a great expense to replace or repair in case of a hazardous storm. The cantilever roof is in danger of collapse when under enourmous wind loads. Proper engineering details and specifications are essential.	
Deliberate intent: Vandalism of the wall	4 Major	3 Unlikely	12	Medium	The Memorial Walls are open to the public 24hours a day and therefore in danger of vandalism. Material finishes must prevent vandalism.	
Failure of Completion: financial support	4 Major	3 Unlikely	12	Medium	Funds are generated from members of the congregation in the form of pledges and donations. Proper management of these pledges and donations is essential to collect the needed amount.	
wailability of raw material	3 Moderate	2 Rare	6	Low	A large quantity of copper is required for the Chapel and Walls. Good management of resources is essential to reach completion within the planned time.	 -
						237
Consequence		4 Moderate	2 Unlikalu	2 Dara		
Consequence == 5. Catastrophic	5. Likely 25	4. Moderate	3. Unlikely 15	2. Rare 10	High Risk	
4. Major	20	16	12	8	— 1	
3. Moderate	15	12	9	6	— Medium Risk	
2. Minor	10	8	6	4	Low Risk	
	5		2	2	_	