

Decision Matrix Criteria	Concrete Gravity Wall	Concrete Cantilever Wall	Reinforced Concrete Canteliever Wall	Anchored Retaining Wall	Mechanically Stabilized Earth	Concrete Masonry Unit	Geotextile Wall
<b>Drainage</b> Natrual and with the addition of Weep holes. Determination of the ability to add weep holes	-1	0	-1	0	1	1	1
<b>Foundation Size</b> Size of foundation as the wall is restricted by the railroad and the FUTS trail for proposed Holiday Inn	-1	0	0	1	1	-1	1
<b>Required Rienforcement</b> How much rienforcement is required to build the wall based on cost and the ability for contractor to impliment	1	1	-1	-1	1	0	0
<b>Wall Asthetics</b> How the wall blends with natural surroundings and infrastructure	-1	1	0	-1	1	1	1
<b>Estimated Material Cost</b> The overall cost of materials for the contractor to build the 1500 ft wall	0	1	0	1	-1	1	-1
<b>Estimated Construction Time</b> The time it takes to construct the wall and the man hours that are required to impliment the wall	1	1	0	-1	-1	0	-1
<b>Sum</b>	-1	4	-2	-1	2	2	1

Decision Matrix Key	
Point Value	Description
-1	The wall does not meet the teams requirements and is not practical for wall size or construction.
0	The wall does not have a negative or positive impact on the surroundings. The wall will meet requirements, but is not the best option.
1	The wall exceeds expectations and is practical for design in this category.