

STATE OF UTAH MSE WALL INSPECTION FORM

Compiled As Part of Research By The Utah Department of Transportation

Instructions:

1-Fill out required sections for MSE Wall Inspector and Wall Characteristics.

2-Inspect the wall using the attached form. Questions that require a 'Yes' answer should be documented by noting the extent of the problem in the right most column and photo documentation. Photo documentation should consist of wall or bridge number, nature of problem, date, photo number for wall, and a size reference, which should be indicated in the photo (white board/paper). Photos taken should be placed on the Top View layout and indicated with the appropriate number. Note should be taken by the inspector that often anomalies are due to construction and should be distinguished from those that are a result of post-construction. If it is observable that they existed at the time of construction note should be taken in the space provided for drawings.

3- Shoot digital photos of the entire wall. This may require the use of a variety of shots and angles on each wall to cover the wall in its entirety.

4- Indicate Layout of MSE Wall in respect to major intersections, roadways, potential hazards, irrigation, vegetation, locations of conditions for which 'Yes' was marked, etc. in space provided below. Also Indicate approximate GPS Coordinates of Site of Interest in space provided below



Region	2	Identifying Road/Intersection	10300 S, I-15, 560
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MSE WALL CHARACTERISTICS

MSE Wall at Bridge	(Y) N	Bridge Number if applicable:		Wall Number	R-711-D
Surrounding Structures				Maximum Height of Wall (ft)	27 ft
Distance to Each Structure				One Stage, Two Stage or Block Wall	
State Route Number				Estimated Max Length of Wall Abutment:	90 ft
Approximate Mile Marker				Max Slope of Ground in front of wall:	0
GPS Datum	WGS/84, NAD/83, or NAD/27			Max Height of wall burial line above surrounding level ground:	25 ft
MSE Wall GPS Coordinates (Location of Measurement shown on plan view)	40° 18' 34.65" N 111° 43' 25.66" W			Please draw rough layout of panel with approximate dimensions in space provided below:	
If known, Panel or System Manufacturer					

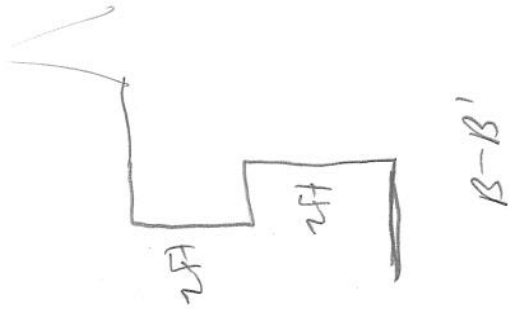
Summary of Key Observations:

exposed leveling pad

Plan View/Drainage:



Cross Sections:



Cross Sections:

Required Tests:		Structural Integrity		Measurement/Extent of Problems/Location/Photo Numbers	
Year	Pass	Fail	Notes	Measurement/Extent of Problems/Location/Photo Numbers	Measurement/Extent of Problems/Location/Photo Numbers
Y	N	N/A	UKS	16-Is there excessive corrosion on guardrail or other exposed metal that might indicate composite condition?	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKS	17-Are there major rust stains on the floor panels? Along joints? If so, record total number.	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKS	18-Are any lateral stress cracks? Does there appear to be corrosion on these slabs? If applicable please record the total number of slabs affected.	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKS	19-Is there any indication of rebar corrosion (swelling bars, rust, exposed metal under epoxy coating)? If so please record the total number of panels affected.	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /

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Year	Pass	Fail	Notes	Measurement/Extent of Problems/Location/Photo Numbers	Measurement/Extent of Problems/Location/Photo Numbers
Y	N	N/A	UKS	19-What is the location depth of leveling coat? Found One Probe from wall located 2 inches from wall to a maximum depth of 24 inches (24 inches is the minimum depth for AISE Wall)	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKS	20-Is there cracking in the leveling coat? If so, record maximum crack size with gap.	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKS	21-Is there cracking in the leveling coat? If so, record maximum crack size with gap.	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKS	22-Is there a four foot bend (level slope) directly along the wall before the slope changes (Record visibility)	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKS	23-Is there a slope steeper than V: 1.5 to H: 11 in front of the wall? Please record slope and height of backfill.	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKS	24-Is there a slope greater than V: 1.5 to H: 11 below the wall? Please record slope and height of backfill below the wall.	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKS	25-Is there excessive degradation of panel fibers?	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /

Required Tests:		Metal Corrosion		Measurement/Extent of Problems/Location/Photo Numbers	
Year	Pass	Fail	Notes	Measurement/Extent of Problems/Location/Photo Numbers	Measurement/Extent of Problems/Location/Photo Numbers
Y	N	N/A	UKS	16-Is there excessive corrosion on guardrail or other exposed metal that might indicate composite condition?	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKS	17-Are there major rust stains on the floor panels? Along joints? If so, record total number.	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKS	18-Are any lateral stress cracks? Does there appear to be corrosion on these slabs? If applicable please record the total number of slabs affected.	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKS	19-Is there any indication of rebar corrosion (swelling bars, rust, exposed metal under epoxy coating)? If so please record the total number of panels affected.	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /

Required Tests:		Impact/Collision		Measurement/Extent of Problems/Location/Photo Numbers	
Year	Pass	Fail	Notes	Measurement/Extent of Problems/Location/Photo Numbers	Measurement/Extent of Problems/Location/Photo Numbers
Y	N	N/A	UKS	14-Are guardrail wall protrusions in place at the base of the wall (to protect it from potential traffic loads)?	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKS	15-Does it appear that the wall has been involved in an accident (replaced panel, recent ding in the wall)?	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKS	16-Does it appear the wall's functionality and integrity has been compromised by a collision or accident?	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /

Required Tests:		Obstructions in Reinforcement Geometry		Measurement/Extent of Problems/Location/Photo Numbers	
Year	Pass	Fail	Notes	Measurement/Extent of Problems/Location/Photo Numbers	Measurement/Extent of Problems/Location/Photo Numbers
Y	N	N/A	UKS	24-Are there some wall angles (<90)?	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /

Required Tests:		Drawing/Construction		Measurement/Extent of Problems/Location/Photo Numbers	
Year	Pass	Fail	Notes	Measurement/Extent of Problems/Location/Photo Numbers	Measurement/Extent of Problems/Location/Photo Numbers
Y	N	N/A	UKS	25-Are there any structures on or near wall that were not included in final drawings?	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKS	26-Is the layout in general accordance with drawings?	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKS	27-Are the panels CIP (Cast in Place)? Does there appear to be excessive cracking in the panel?	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKS	28-Was GEOF membrane used in the construction of the wall?	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKS	29-Are there any structures on or near wall that were not included in final drawings?	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKS	30-Are there any infillings, utilities, or installations that are not part of the final drawings?	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKS	31-Has local property or work changed the dynamics of the wall (additional structures, vegetation, excavation, etc.)?	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKS	32-Are there piles located in the wall (bridge abutment)?	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /

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