

# STATE OF UTAH MSE WALL INSPECTION FORM

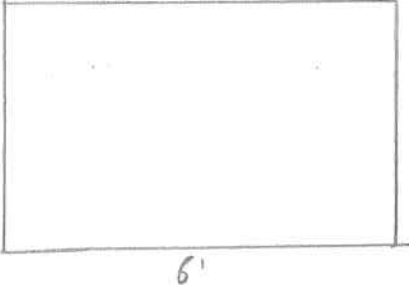
Compiled As Part of Research By The Utah Department of Transportation

**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

<b>Region</b>	4	<b>Identifying Road/Intersection</b>	I-15 Washington Interchange, S. George
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## MSE WALL CHARACTERISTICS

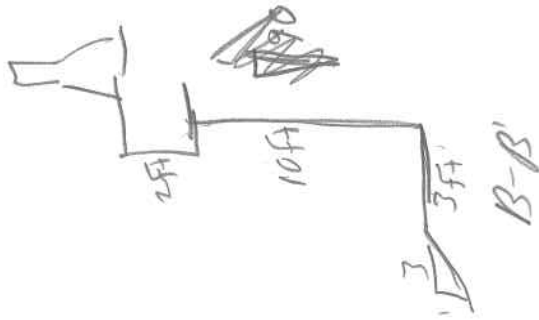
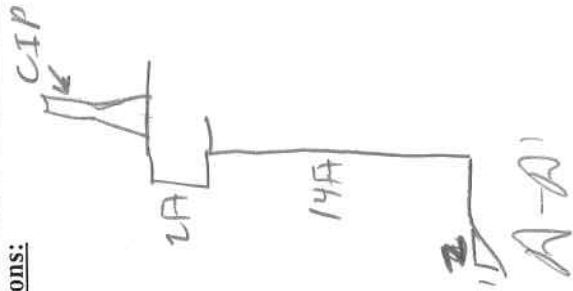
MSE Wall at Bridge	(Y) N	Bridge Number if applicable:		Wall Number	R-383-E
Surrounding Structures				Maximum Height of Wall (ft)	16 Ft
Distance to Each Structure			One Stage, Two Stage or Block Wall		1-Stage
State Route Number			Estimated Max Length of Wall Abutment:		240 Ft
Approximate Mile Marker			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:		15 Ft
MSE Wall GPS Coordinates (Location of Measurement shown on plan view)	37° 7' 43.95" N 108° 31' 30.22" W		Please draw rough layout of panel with approximate dimensions in space provided below:		
If known, Panel or System Manufacturer					

**Summary of Key Observations:**

lots of popped corners  
lots of gapping in vertical joints



Cross Sections:



Cross Sections:

INSIDE WALL DRAINAGE

Required Item:	Yes	No	N/A	UNKN	Measurement/Extent of Problem/Location/Photo Numbers
1-Is there an active water source near the base of the wall (in the wall near a body of water with noose post(s)?)	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
2-If applicable, are the catch basins at the base of the wall blocked?	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
3-After these catch basins, does water flow through the wall?	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
4-After these vertical drains that travel through the backfill?	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
5-Is there evidence at the base of the wall of leveling sand? (Photo 12)	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
6-Are there any signs of water flow along the base of the wall?	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
8-Is there a flow line 14 feet between (refrigerator) refrigerator and wall?	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
9-Does the backfill or joint fabric appear to be saturated?	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
10-Is there vegetation growing in panel joints (Photo 8)?	Y	N	N/A	UNKN	Blocked / 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
11-Are the deck drains and outlets at the top of the wall blocked? (Photo 14)	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
12-Can water enter the wall between coping and slab (i.e., Drain appropriate)?	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
13-Is there evidence of effluent from the wall?	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /

MISE WALL JOINTS

Required Item:	Yes	No	N/A	UNKN	Measurement/Extent of Problem/Location/Photo Numbers
1-Is backfill coming out of joint or are there joints of backfill at the base of the wall? (Pictures 2 & 3)	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
2-Is there evidence of backfill behind panels when looking into joint? (Photo 3) If yes, record the approximate maximum joint width in inches.	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
3-Is there evidence of backfill or joint fabric in the joint? (Photo 4)	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
4-Is there evidence of backfill or joint fabric in the joint? (Photo 5) If there is evidence of backfill or joint fabric, record the approximate maximum joint width in inches.	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
5-Do the joints have a non-uniform horizontal spacing? Are some horizontal joints larger than others? (Photo 6)	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
6-Do the joints have a non-uniform vertical spacing? Are some vertical joints larger than others? (Photo 6)	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
7-Are the joints offset at the joint either in or out of the wall? (Photo 7) If yes, record the approximate maximum offset.	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
8-Does the fabric appear brittle, or appear as if it has undergone excessive UV exposure?	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /

MISE WALL FACING

Required Item:	Yes	No	N/A	UNKN	Measurement/Extent of Problem/Location/Photo Numbers
1-Is there evidence of concrete cracking in the panel?	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
2-Is there evidence of concrete cracking in the panel?	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
3-Is there evidence of concrete cracking in the panel?	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
4-Is there evidence of concrete cracking in the panel?	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
5-Is there evidence of concrete cracking in the panel?	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
6-Is there evidence of concrete cracking in the panel?	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
7-Is there evidence of concrete cracking in the panel?	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
8-Is there evidence of concrete cracking in the panel?	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
9-Is there evidence of concrete cracking in the panel?	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
10-Is there evidence of concrete cracking in the panel?	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
11-Is there evidence of concrete cracking in the panel?	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
12-Is there evidence of concrete cracking in the panel?	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
13-Is there evidence of concrete cracking in the panel?	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
14-Is there evidence of concrete cracking in the panel?	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
15-Is there evidence of concrete cracking in the panel?	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
16-Is there evidence of concrete cracking in the panel?	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
17-Is there evidence of concrete cracking in the panel?	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
18-Is there evidence of concrete cracking in the panel?	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
19-Is there evidence of concrete cracking in the panel?	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
20-Is there evidence of concrete cracking in the panel?	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
21-Is there evidence of concrete cracking in the panel?	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /

MISE TOP OF WALL OBSERVATIONS

Required Item:	Yes	No	N/A	UNKN	Measurement/Extent of Problem/Location/Photo Numbers
1-Is there evidence of settlement at the top of the wall? (government cracking, etc)	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
2-Is there evidence of settlement at the top of the wall? (government cracking, etc)	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
3-Is there evidence of settlement at the top of the wall? (government cracking, etc)	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /
4-Is there evidence of settlement at the top of the wall? (government cracking, etc)	Y	N	N/A	UNKN	/ 0-Nb 1% 5% 10% 25% 50% 75% 90% 95% 100% /

at abutment

