

STATE OF UTAH MSE WALL INSPECTION FORM

Compiled As Part of Research By The Utah Department of Transportation

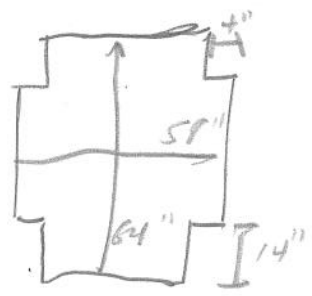
Instructions:

- 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 12300 S., I-15, SLC

MSE WALL CHARACTERISTICS

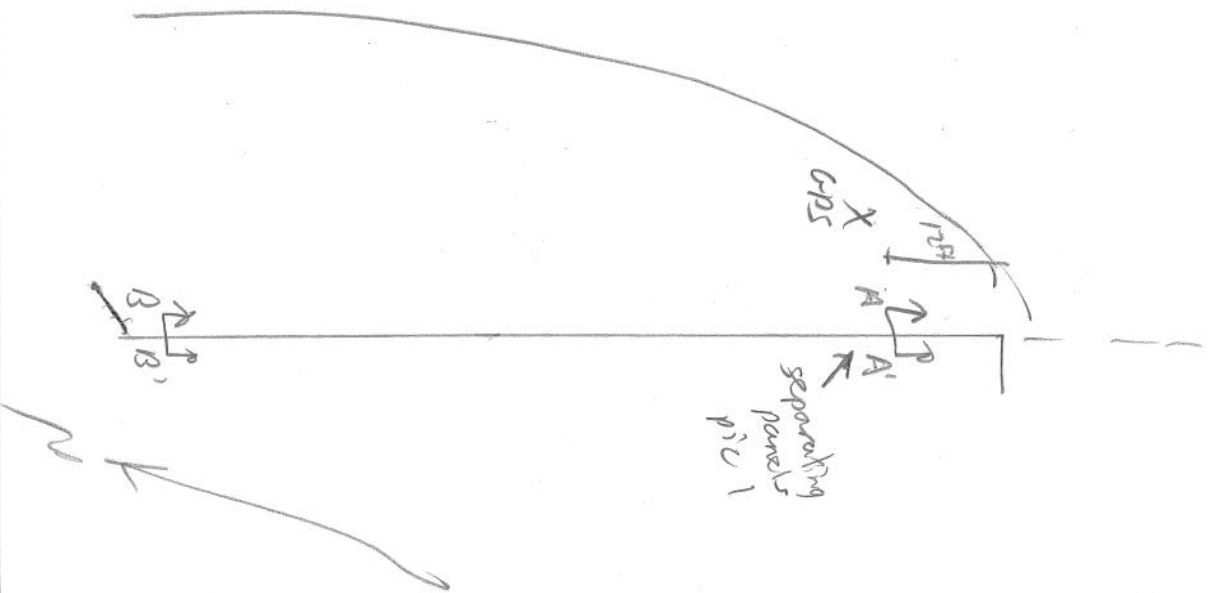
MSE Wall at Bridge	(Y) N	Bridge Number if applicable:	Wall Number
Surrounding Structures			25 ft
Distance to Each Structure			One Stage, Two Stage or Block Wall
State Route Number			Estimated Max Length of Wall Abutment: 120 ft
Approximate Mile Marker			Max Slope of Ground in front of wall: 0
GPS Datum	WGS/84, NAD/83, or NAD/27		Max Height of wall burial line above surrounding level ground: 23 ft
MSE Wall GPS Coordinates (Location of Measurement shown on plan view)	40° 18' 34.65" N 111° 43' 25.66" W		
If known, Panel or System Manufacturer			



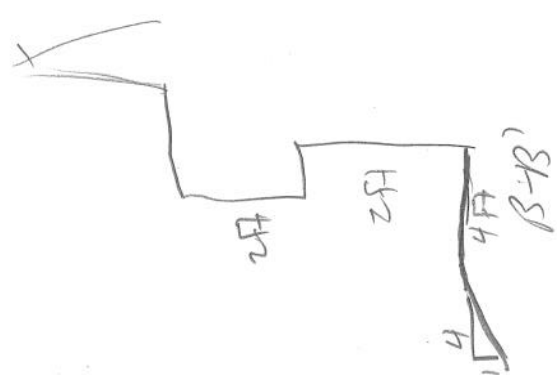
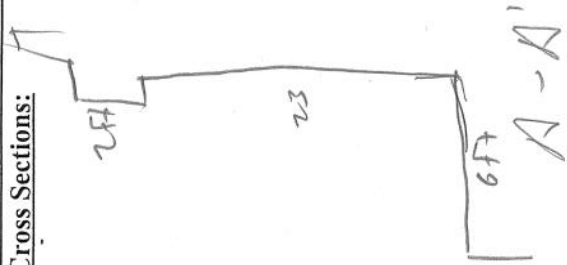
Summary of Key Observations:

gapping in panel joints near abutment

Plan View/Drainage:



Cross Sections:



Cross Sections:

RISE WALL DRAINAGE

Required Tests:	Yes	No	N/A	UNS	Measurement/Extent of Problem/Location/Photo Numbers
1-Is there an active water source near the toe of the wall (or the wall near a body of water with noose potential)?	Y	N	N/A	UNS	/ 0-No 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	UNS	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
3-Are there obstructions preventing through the wall?	Y	N	N/A	UNS	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
4-Are there vertical drains that travel through the backfill?	Y	N	N/A	UNS	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
5-Is there erosion at the base of the wall or leveling pad? (Photo 12)	Y	N	N/A	UNS	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
6-Is there erosion along the wing wall?	Y	N	N/A	UNS	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
7-Are there any signs of water flow along the base of the wall?	Y	N	N/A	UNS	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
8-Is there flow that is fast enough to erode the leveling pad?	Y	N	N/A	UNS	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
9-Does the backfill or joint fabric appear to be saturated?	Y	N	N/A	UNS	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
10-Is there vegetation growing in panel joints? (Photo 8)?	Y	N	N/A	UNS	Blocked / 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
11-Does the deck drain and outlet at the top of the wall block? (Photo 14)	Y	N	N/A	UNS	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
12-Can water enter the wall between coping and slab (i.e., drain appropriately)?	Y	N	N/A	UNS	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
13-Is there evidence of discharge points of fill washing through drain pipes?	Y	N	N/A	UNS	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /

RISE WALL JOINTS

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

RISE WALL FACING

Required Tests:	Yes	No	N/A	UNS	Measurement/Extent of Problem/Location/Photo Numbers
1-Do the panels show any cracking?	Y	N	N/A	UNS	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
2-Are there cracks that continue vertically through adjacent panels? (Photos 9 & 10) If yes, record the approximate number of panels in the wall with cracking.	Y	N	N/A	UNS	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
3-Are there cracks that continue horizontally through adjacent panels? (Photos 9 & 10) If yes, record the approximate number of panels in the wall with cracking.	Y	N	N/A	UNS	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
4-Are the panel corners making contact with each other? If yes, record the approximate number in the wall.	Y	N	N/A	UNS	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
5-Are the panel corners "pop-out" or chipped from contact with an adjacent panel? If yes record the number in the wall.	Y	N	N/A	UNS	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
6-Does the coping exhibit Vertical Offset?	Y	N	N/A	UNS	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
7-Are the coping and parapets loose or detaching? If yes, it may be appropriate to contact UDOT if detachment seems eminent.	Y	N	N/A	UNS	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
8-Are the panels in danger of falling off? (If potential exists contact appropriate UDOT region).	Y	N	N/A	UNS	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
9-Is there tipping at the top or bottom of the wall? (Record maximum degree of tipping from vertical coping to leveling pad. (Photo 11))	Y	N	N/A	UNS	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
10-Is there any evidence of settlement at the top of the wall? (permanent cracking, etc)	Y	N	N/A	UNS	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
11-Is there evidence of settlement in the concrete coping (not hairline)? If yes record the approximate maximum crack width.	Y	N	N/A	UNS	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
12-Is there construction joint in the concrete coping opened up? (Photo 6). If yes, record the maximum joint width.	Y	N	N/A	UNS	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /

RISE TOP OF WALL OBSERVATIONS

Required Tests:	Yes	No	N/A	UNS	Measurement/Extent of Problem/Location/Photo Numbers
1-Is there evidence of settlement at the top of the wall? (permanent cracking, etc)	Y	N	N/A	UNS	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
2-Is there evidence of settlement in the concrete coping (not hairline)? If yes record the approximate maximum crack width.	Y	N	N/A	UNS	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
3-Is there construction joint in the concrete coping opened up? (Photo 6). If yes, record the maximum joint width.	Y	N	N/A	UNS	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /

5 feet

