

STATE OF UTAH MSE WALL INSPECTION FORM

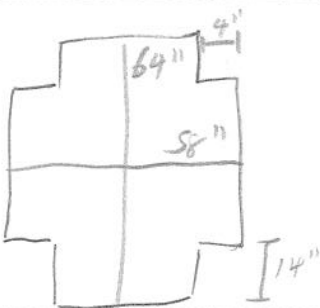
Compiled As Part of Research By The Utah Department of Transportation

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

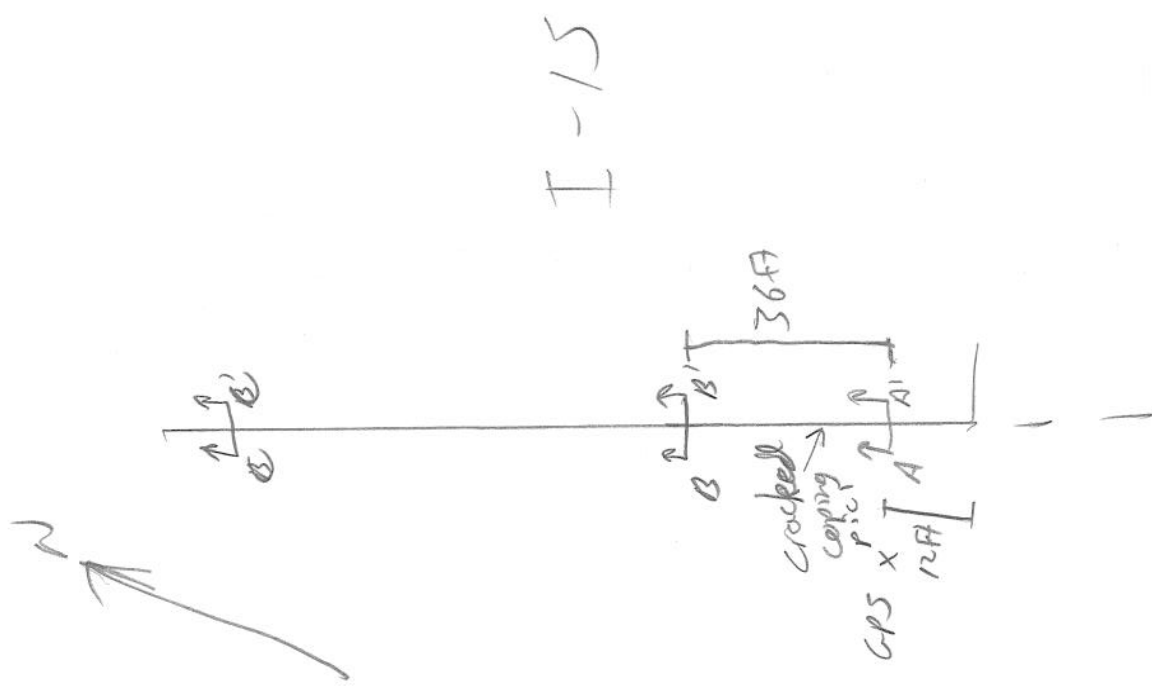
MSE WALL CHARACTERISTICS

MSE Wall at Bridge	(Y) N	Bridge Number if applicable:		Wall Number	R-411-6
Surrounding Structures				Maximum Height of Wall (ft)	24 FT
Distance to Each Structure			One Stage, Two Stage or Block Wall		
State Route Number			Estimated Max Length of Wall Abutment:		105 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:		22 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					

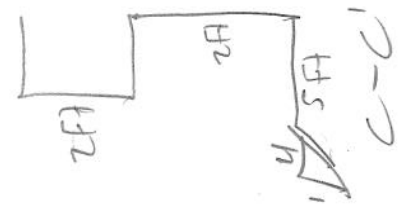
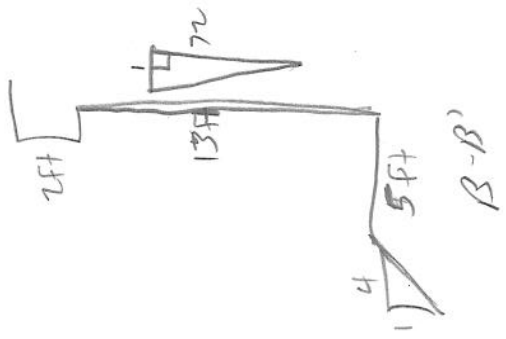
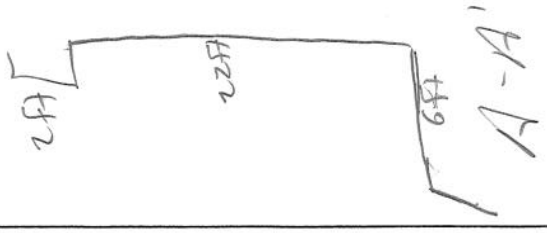
Summary of Key Observations:

gapping in panels near abutment
cracked coping

Plan View/Drainage:



Cross Sections:



Cross Sections:

BASE WALL DRAINAGE

Required Tests	System Under Test	Measurement/Extent of Problem/Location/Photo Numbers
Y	N/A	1-Is there an active water source near the base of the wall (to the wall near a body of water with seepage)?
Y	N/A	2-If applicable, are the catch basins at the base of the wall blocked?
Y	N/A	3-Are there subverts protruding through the wall?
Y	N/A	4-Are there vertical drains that travel through the backfill?
Y	N/A	5-Is there evidence at the base of the wall or footing pad? (Photo 12)
Y	N/A	6-Is there erosion along the wing wall?
Y	N/A	7-Are there any signs of water flow along the base of the wall?
Y	N/A	8-Is there flow from 14 feet between irrigation sprinklers and wall?
Y	N/A	9-Does the backfill or joint fabric appear to be saturated?
Y	N/A	10-Is there vegetation growing in joint (Photo 8)?
Y	N/A	11-Are the deck drains and outlets at the top of the wall blocked? (Photo 14)
Y	N/A	12-Can water enter the wall between coping and deck (i.e., drains appropriately)?
Y	N/A	13-Is there evidence of discharge point of fill washing through fabric pipe?

BASE WALL JOINTS

Required Tests	Long Level Slab Concrete	Measurement/Extent of Problem/Location/Photo Numbers
Y	N/A	1-Is backfill coming out of joints or are there piles of backfill at the base of the wall? (Photos 2 & 3)
Y	N/A	2-Are the joints wide enough to see fabric or backfill behind panels when looking into joints? (Photo 5) If yes, record the approximate maximum joint width in inches.
Y	N/A	3-Is exposed backfill visible in the horizontal joint? (Photo 3)
Y	N/A	4-Are there visible tears in the fabric? Is there evidence of backfill or water backing through over? (Do not attempt to remove fabric.)
Y	N/A	5-Do the joints have a non-uniform horizontal spacing? Are some horizontal joints larger/smaller than others? (Photo 6)
Y	N/A	6-Do the joints have a non-uniform vertical spacing? Are some vertical joints larger/smaller than others? (Photo 5)
Y	N/A	7-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/A	8-Does the fabric appear brittle, or appear as if it has undergone excessive UV exposure?

BASE WALL FACINGS

Required Tests	Long Level Slab Concrete	Measurement/Extent of Problem/Location/Photo Numbers
Y	N/A	1-Does the overlying coping exhibit Vertical Offset?
Y	N/A	2-Are the coping and parapet loose or detaching? If yes, it may be appropriate to contact UDOT if detachment occurs.
Y	N/A	3-Are the panels in danger of falling off? (If potential exists contact appropriate UDOT region).
Y	N/A	4-Are there any signs of delamination or horizontal cracking? (Photo 11)
Y	N/A	5-Is there chipping at the top or bottom of the wall? (Record maximum degree of chipping from minimum using vertical level and reference area).
Y	N/A	6-Does the overlying coping exhibit Vertical Offset?
Y	N/A	7-Are the coping and parapet loose or detaching? If yes, it may be appropriate to contact UDOT if detachment occurs.
Y	N/A	8-Are the panels in danger of falling off? (If potential exists contact appropriate UDOT region).
Y	N/A	9-Are there any signs of delamination or horizontal cracking? (Photo 11)
Y	N/A	10-Is there chipping at the top or bottom of the wall? (Record maximum degree of chipping from minimum using vertical level and reference area).

BASE TOP OF WALL OBSERVATIONS

Required Tests	Long Level Slab Concrete	Measurement/Extent of Problem/Location/Photo Numbers
Y	N/A	1-Is there evidence of settlement at the top of the wall? (government cracking, etc)
Y	N/A	2-Are there any open cracks in the concrete coping (not building)? If yes, record the approximate maximum crack width.
Y	N/A	3-How do the construction joints in the connecting coping appear? (Photo 6). If yes, record the maximum joint width.

