

STATE OF UTAH MSE WALL INSPECTION FORM

Compiled As Part of Research By The Utah Department of Transportation

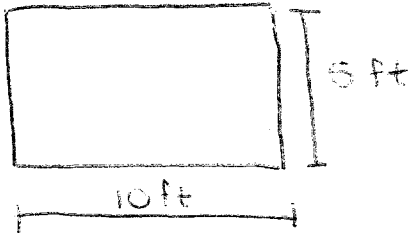
Instructions:

- 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

Inspector Information

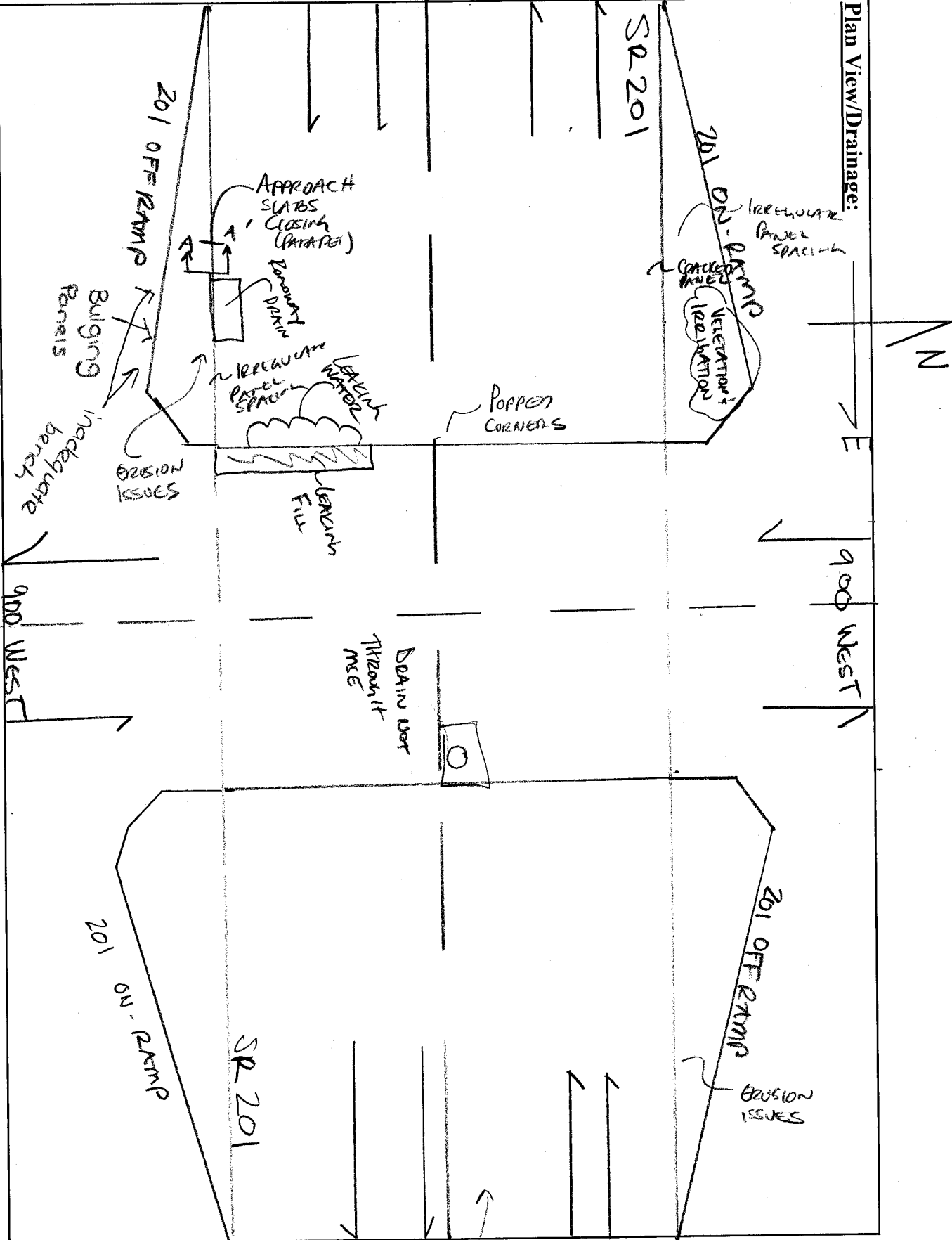
Inspection Date	7/1/07	Names Of Inspectors	Ryan maw & Holly Griffin
Region	2	Identifying Road/Intersection	WGS (SR-209) & I-15

MSE WALL CHARACTERISTICS

MSE Wall at Bridge	(Y) N	Bridge Number if applicable:	unknown	Wall Number	R-349
Surrounding Structures	N/A			Maximum Height of Wall (ft)	23.5 ft
Distance to Each Structure	N/A			One Stage, Two Stage or Block Wall	two stage
State Route Number	209			Estimated Max Length of Wall Abutment:	85 ft
Approximate Mile Marker				Max Slope of Ground in front of wall:	1:30:1H
GPS Datum	(WGS/84), NAD/83, or NAD/27			Max Height of wall burial line above surrounding level ground:	10
MSE Wall GPS Coordinates (Location of Measurement shown on plan view)	N 40° 43.465		Please draw rough layout of panel with approximate dimensions in space provided below: 		
If known, Panel or System Manufacturer	W 111° 55.070				
	VSL				

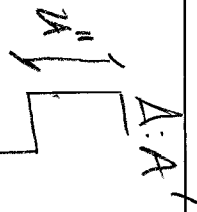
Summary of Key Observations:

Joint Inspection w/ BYU
 Severe drainage issues
 wall actually losing fill (history of problems)
 joint spacing irregularities
 erosion along base of wall
 bowing / offset in panels



THIS SIDE IN BETTER
 CONDITION W/LIMITED
 PROBLEMS BY COMPARISON TO WEST WALL

Cross Sections:



PERFORM BARBER
HEAD TO TAIL
w/ TEXTURED FINISH

Cross Sections:



MISE WALL DRAINAGE

Required Tools: Nylon Mallet, Water Bottle-GPS-Camera		Measurement/Extent of Problem/Location/Photo Numbers										
Yes	No	Drainage										
Y	N	1-Is there an active water source near the toe of the wall (is the wall near a body of water with scour potential?)	UKN	1%	5%	10%	25%	50%	75%	90%	95%	100%
Y	N	2-If applicable, are the catch basins at the base of the wall blocked?	UKN	1%	5%	10%	25%	50%	75%	90%	95%	100%
Y	N	3-Are there culverts protruding through the wall?	UKN	1%	5%	10%	25%	50%	75%	90%	95%	100%
Y	N	4-Are there vertical drains that travel through the backfill?	UKN	1%	5%	10%	25%	50%	75%	90%	95%	100%
Y	N	5-Is there erosion at the base of the wall or leveling pad? (Photo 12)	UKN	1%	5%	10%	25%	50%	75%	90%	95%	100%
Y	N	6-Is there erosion along the wing walls?	UKN	1%	5%	10%	25%	50%	75%	90%	95%	100%
Y	N	7-Are there any signs of water flow along the base of the wall?	UKN	1%	5%	10%	25%	50%	75%	90%	95%	100%
Y	N	8-Is there less than 14 feet between irrigation sprinklers and wall?	UKN	1%	5%	10%	25%	50%	75%	90%	95%	100%
Y	N	9-Does the backfill or joint fabric appear to be saturated?	UKN	1%	5%	10%	25%	50%	75%	90%	95%	100%
Y	N	10-Is there vegetation growing in panel joints (Photo 8)?	UKN	1%	5%	10%	25%	50%	75%	90%	95%	100%
Y	N	11-Are the deck drains and outlets at the top of the wall blocked? (Photo 14)	UKN	1%	5%	10%	25%	50%	75%	90%	95%	100%
Y	N	12-Can water enter the wall between coping and slab (i.e., Drain appropriately)?	UKN	1%	5%	10%	25%	50%	75%	90%	95%	100%
Y	N	13-Is there evidence at discharge point of fill washing through drain pipes?	UKN	1%	5%	10%	25%	50%	75%	90%	95%	100%

MISE WALL JOINTS

Required Tools: Long Level-String-Camera-GPS		Measurement/Extent of Problem/Location/Photo Numbers										
Yes	No	Joints										
Y	N	14-Is backfill coming out of joints or are there piles of backfill at the base of the wall? (Pictures 2 & 3)	UKN	1%	5%	10%	25%	50%	75%	90%	95%	100%
Y	N	15-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.	UKN	1%	5%	10%	25%	50%	75%	90%	95%	100%
Y	N	16-Is exposed backfill visible in the horizontal joints? (Photo 4)	UKN	1%	5%	10%	25%	50%	75%	90%	95%	100%
Y	N	17-Are there visible tears in the fabric? Is there evidence of backfill or water leaking through tear? (Do not induce additional damage to fabric)	UKN	1%	5%	10%	25%	50%	75%	90%	95%	100%
Y	N	18-Do the joints have a non-uniform horizontal spacing/size? Are some horizontal joints larger/smaller than others? (Photo 6)	UKN	1%	5%	10%	25%	50%	75%	90%	95%	100%
Y	N	19-Do the joints have a non-uniform vertical spacing/size? Are some vertical joints larger/smaller than others? (Photo 6)	UKN	1%	5%	10%	25%	50%	75%	90%	95%	100%
Y	N	20-Are the panels offset at the joints either in or out of the wall? (Photo 7) If yes, record the approximate maximum offset.	UKN	1%	5%	10%	25%	50%	75%	90%	95%	100%
Y	N	21-Does the fabric appear brittle, or appear as if it has undergone excessive UV exposure?	UKN	1%	5%	10%	25%	50%	75%	90%	95%	100%

