## 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.

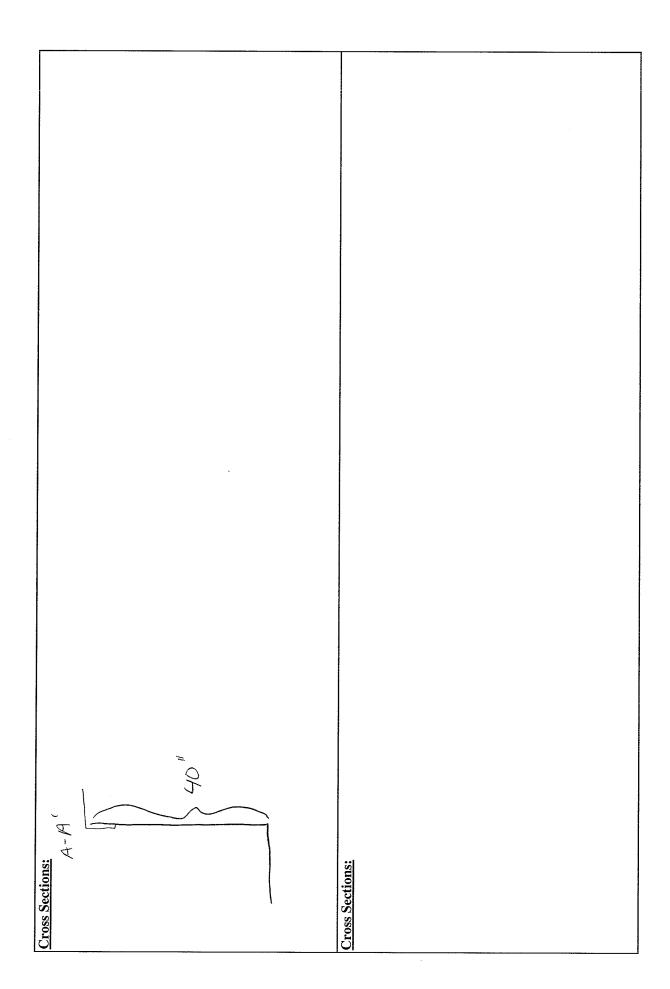
3- Shoot digital photos of the entire wall. This may require the use of a variety of shots and angles on each wall to cover the wall in its entirety.

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

			· Information		
Inspection Date	11/10/07		Names Of Inspectors	Ruan Maw, F	HOLLWONTEN
Region	2	Ident	Names Of Inspectors tifying Road/Intersection	BOCK St. of	PJ 715
	7.5		Ti-		
		MSE WALL CH	ARACTERISTICS		
MSE Wall at Bridge	(Y) N	Bridge Number if applicable:	0-672	Wall Number	R-429
Surrounding Structures				Maximum Height of Wall (ft)	4011
Distance to Each Structure			One Stage, Two Stage of	Block Wall	
State Route Number	I-15and	Beck St.	Estimated M	Max Length of Wall Abutment:	10
Approximate Mile Marker			Max Sk	ope of Ground in front of wall:	
GPS Datum	WGS/84, NAD	D/83, or NAD/27	Max Height of wall burial line ab	ove surrounding level ground:	8''
MSE Wall GPS Coordinates (Location of	40 49,11	66	Please draw rough lay	yout of panel with approximate dimensions	in space provided below:
Measurement shown on plan view)	1110 54,	, 980		, , , , , , , , , , , , , , , , , , , ,	
If known, Panel or System Manufacturer	tensar-	-keystora			
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**Summary of Key Observations:** 

wall in good condition
sportly prosion at base
coping degradation-photo available



/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	Y N NA UKN 21-Does the fabric appear brittle, or appear as if it has undergone excessive UV exposure?
/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	Y NIA UKN 20-Are the panels offset at the joints either in or out of the wall? (Photo 7) If yes, record the approximate maximum offset.
/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	Y N/A UKN 19-Do the joints have a non-uniform vertical spacing/size? Are some vertical joints larger/smaller than others? (Photo 6)
/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	Y N/A UKN 18-Do the joints have a non-uniform horizontal spacing/size? Are some horizontal joints larger/smaller than others? (Photo 6)
/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100%/	Y N (NA) UKN 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)
/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	Y N/A UKN 16-Is exposed backfill visible in the horizontal joints? (Photo 4)
/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	N/A UKN 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.
/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	Y N/A UKN 114-Is backfill coming out of joints or are there piles of backfill at the base of the wall? (Pictures 2 & 3)
Measurement/Extent of Problem/Location/Photo Numbers	Yes No N/A UKN Joints
MSE WALL JOINTS	
/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	Y (N) N/A UKN 13-Is there evidence at discharge point of fill washing through drain pipes?
/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	Y N/A UKN 12-Can water enter the wall between coping and slab (i.e., Drain appropriately)?
/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	Y N NA UKN 11-Are the deck drains and outlets at the top of the wall blocked? (Photo 14)
Blocked Partial Clear / 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	Y NA UKN 10-Is there vegetation growing in panel joints (Photo 8)?
/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	Y N/A UKN 9-Does the backfill or joint fabric appear to be saturated?
/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	Y NA UKN 8-Is there less than 14 feet between irrigation sprinklers and wall?
/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	Y NA UKN 7-Are there any signs of water flow along the base of the wall?
MOCS (1 SDI) 1 0.40 (1%) 5% 10% 25% 50% 75% 90% 95% 100% 1	Y N NA UKN 6-Is there erosion along the wing walls?
/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	N/A UKN 5-Is there erosion at the base of the wall or leveling pad? (Photo 12)
/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	Y N/A UKN 4-Are there vertical drains that travel through the backfill?
/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	Y N/A UKN 3-Are there culverts protruding through the wall?
/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	Y N (N/A) UKN 2-If applicable, are the catch basins at the base of the wall blocked?
/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /	Y N/A UKN 1-1s there an active water source near the toe of the wall (is the wall near a body of water with scour potential?)
Measurement/Extent of Problem/Location/Photo Numbers	
NSE WALL DRAINAGE	Required Tools: Nylon Mallet-Water Bottle-GPS-Camera

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45-Is there excessive degradation of panel faces?	44-Is there a slope greater than V: 1.5 to H:1 below the wall? Please record slope and height of backfill below the wall.	43-Is there a slope steeper than V: 1.5 to H:1 in front of the wall? Please record slope and height of backfill above top of wall.	42-Is there a four foot 'bench' (level slope) directly along the wall before the slope changes (Record Width)?	41-Is there cracking in the leveling pad? If so, record maximum crack size with gage.	40-Is leveling pad exposed?	39-What is the location depth of Leveling pad? Pound Geo-Probe into soil located 2 inches from wall to a maximum depth of 24 inches (24 inches is the minimum depth for MSE Wall)	Structural Integrity		38-Is the coping/wall pulling away from pavement/roadway section? Please record maximum displacement for wall.	37-At the abutments, has the joint between the wall coping and the abutment opened up significantly? If so record maximum distance.	36-Is there a large gap between the approach slab and the approach pavement? (Photo 15) Often this produces a bumping sensation as the overpass is crossed. Record the approximate maximum gap size.	35-Have the construction joints in the concreting coping opened up? (Photo 6). If yes, record the maximum joint width.	34-Are there any open cracks in the concrete coping (not hairline)? If yes record the approximate maximum crack width.	33-Is there evidence of settlement at the top of the wall? (pavement cracking, etc)	N/A UKN Top Of Wall	MSE	32-1s there tipping at the top or bottom of the wall? (Record maximum degree of tipping from azimuth using vertical level and affected area).	31-Are the panels 'bulging' (bowing horizontally)? If so, record maximum deformation from accessible coping to leveling pad. (Photo 11)	30-Are the panels in danger of falling off? (If potential exists contact appropriate UDOT region).	29-Are the coping and parapets loose or detaching? If yes, it may be appropriate to contact UDOT if detachment seems eminent.	28-Does the overlying coping exhibit Vertical Offset?	27-Does crack spacing suggest Differential Settlement?	26-Are the panel corners "popped-off" or chipped from contact with an adjacent panel? If yes record the number in the wall.	23-Are the panel corners making contact with each other? If yes, record the approximate number in the wall.	24-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.	23-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.	22-Are the panels "Tilt-Up"? Is there excessive cracking in the panels?	Wall Facing
/ 0-No	/ 0-No	/ 0-No	/ 0-No	/ 0-No	/ 0-No	/ 0-No	Меаз	MSE STABILITY	/ 0-No	/ 0-No	/ 0.No	) / 0-No	Photo-degladatichereno	/ 0-No	Меая	TOP OF WALL OBSERVATIONS	/ 0-No	/ 0-No	/ 0-No	/ 0-No	/ 0-No	/ 0-No	/ 0-No	/ 0-No	/ 0-No	/ 0-No	/ 0-No	Meast
1%	1%	1%	1%	1%	1%	1%	rement.		1%	1%	1%	1%	1%	1%	ırement		1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%	rement
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10%	10%	10%	10%	10%	10%	10%	of Probl		10%	10%	10%	10%	10%	10%	of Proble		10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	of Proble
25%	25%	25%	25%	25%	25%	25%	em/Loca		25%	25%	25%	25%	25%	25%	m/Loca		25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	Measurement/Extent of Problem/Location/Photo Numbers
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75%	75%	75%	75%	75%	75%	75%	to Num		75%	75%	75%	75%	75%	75%	oto Num		75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	oto Num
90%	90%	90%	90%	90%	90%	90%	bers		90%	90%	90%	90%	90%	90%	bers		90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	90%	bers
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NO NA UKN  NISE as built different than design  N NA UKN  NSA ve there available drawings for the wall? Please indicate type (Situation and Layout,  N NA UKN  Design, As Built, etc.)  1 O-No 1% 5% 10% 25% 50% 75% onch near	N/A UKN 49-Was a resistivity sample taken of exposed? Does there appear to be corrosion on applicable please record the total number of straps affected.  N/A UKN 49-Was a resistivity sample taken of exposed soil? If so, please indicate of rebar corrosion (swelling bars, rust, exposed coating)? If so please record the total number of panels affected.  N/A UKN 50-Is there any indication of rebar corrosion (swelling bars, rust, exposed coating)? If so please record the total number of panels affected.  Camera-GPS  N/A UKN 51-Are guardralls/ wall protections in place at the base of the wall (to protections in place at the base of the wall (to protections in place at the base of the wall protections in place at the base of the wall (to protections in place) in the wall protections in place at the base of the wall (to protections in place) in the wall protections in place at the base of the wall (to protections in place) in the wall)?  N/A UKN 51-Are guardralls/ wall protections in place at the base of the wall (to protections in place) in the wall)?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% / / 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% / / 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% / / 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% / // O-No 1% 5% 10% 25% 50% 75% 90% 95% 100% / // O-No 1% 5% 10% 25% 50% 75% 90% 95% 100% / / 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% / / 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% / / 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% / / 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
N   NA   UKN   4-Ver the import set status on the face peacle? Along joints? If ear, record to be corrolled and number.   10-No   1% 5% 10% 25% 50% 75% 90% 95%	N/A UKN	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100%/
NO N/A UKN ASSE as built different than design	N/A UKN 47-Ace there major rust stains on the face panels? Along Joints? If so, reco	O-NO
ON ALL ALL ALL ALL ALL ALL ALL ALL ALL AL	N/A UKN 54-Are there acute wall angles (<90)?    Dowings-Camer-GPS   N/A UKN   55-Are there available drawings for the wall? Please indicate type (Situation N/A UK)   Design, As Built, etc.)	Measurement/Extent of Problem/Location/Photo Numbers  No 1% 5% 10% 25% 50% 75% 90% 95%  No 1% 6 10% 25% 50% 75% 90% 95%  No 1% 5% 10% 25% 50% 75% 90% 95%
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