

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.

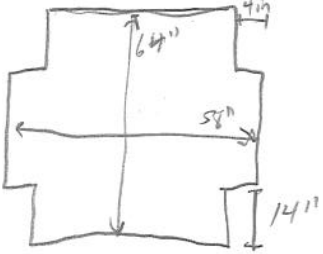
2-Inspect the wall using the attached form. Questions that require a 'Yes' answer should be documented by noting the extent of the problem in the right most column and photo documentation. Photo documentation should consist of wall or bridge number, nature of problem, date, photo number for wall, and 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
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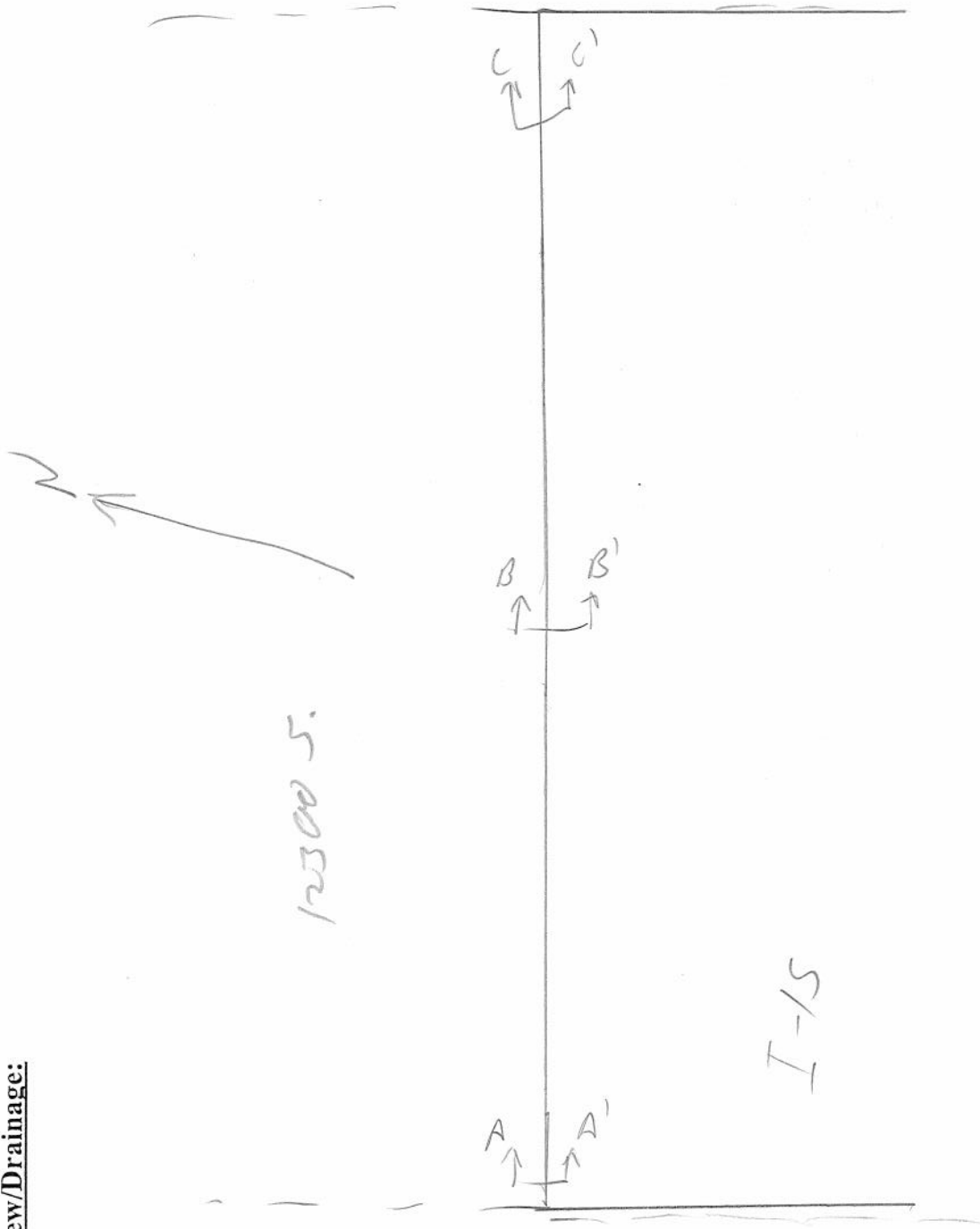
MSE WALL CHARACTERISTICS

MSE Wall at Bridge	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Bridge Number if applicable:		Wall Number	R-411-E
Surrounding Structures				Maximum Height of Wall (ft)	18 FT
Distance to Each Structure				One Stage, Two Stage or Block Wall	
State Route Number				Estimated Max. Length of Wall Abutment:	132 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:	0
MSE Wall GPS Coordinates (Location of Measurement shown on plan view)	Please draw rough layout of panel with approximate dimensions in space provided below:				
If known, Panel or System Manufacturer					

Summary of Key Observations:

12/19/16
B2

Plan View/Drainage:



Cross Sections:



Cross Sections:

Y	N	NA	UKS	16-14 there a large gap between the approach slab and the approach pavement? (Photo 15) Or if this is not the case, is there a large gap between the approach slab and the approach pavement? If so, record maximum displacement for wall.	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100%	/
Y	N	NA	UKS	17-14 the abutments, has the joint between the wall coping and the abutment opened up significantly? If so record maximum distance.	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100%	/
Y	N	NA	UKS	18-14 the coping, wall pulling away from pavement (roadway section)? Please record maximum displacement for wall.	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100%	/

MISE STABILITY

Measurement/Extent of Problem/Location/Photo Numbers																	
Required tests:	Structural Integrity	Yes	No	NA	UKS	19-14 What is the location depth of leveling pad? Found (Oso-Probe) fine wall located 2 inches from wall to a maximum depth of 2 inches (24 inches in the minimum depth for OSE Wall)	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100%	/
Y	N	NA	UKS	20-14 Is leveling pad exposed?	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100%	/		
Y	N	NA	UKS	21-14 Is there cracking in the leveling pad? If so, record maximum crack size with edge.	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100%	/		
Y	N	NA	UKS	22-14 Is there a four foot bench (level dip) directly along the wall before the slope changes (flavor) width?	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100%	/		
Y	N	NA	UKS	23-14 Is there a slope steeper than 1:1.2 to 1:1.1 in front of the wall? Please record slope and height of backfill above top of wall.	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100%	/		
Y	N	NA	UKS	24-14 Is there a slope greater than 1:1.2 to 1:1.1 below the wall? Please record slope and height of backfill below the wall.	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100%	/		
Y	N	NA	UKS	25-14 Is there excessive degradation of panel faces?	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100%	/		

MISE METAL CORROSION

Measurement/Extent of Problem/Location/Photo Numbers																	
Required tests:	Metal Corrosion	Yes	No	NA	UKS <th>26-14 Is there excessive corrosion on guardrails or other exposed metal that might indicate corrosion conditions?</th> <th>/ 0-No</th> <th>1%</th> <th>5% <th>10% <th>25% <th>50% <th>75% <th>90% <th>95% <th>100% <th>/</th> </th></th></th></th></th></th></th></th>	26-14 Is there excessive corrosion on guardrails or other exposed metal that might indicate corrosion conditions?	/ 0-No	1%	5% <th>10% <th>25% <th>50% <th>75% <th>90% <th>95% <th>100% <th>/</th> </th></th></th></th></th></th></th>	10% <th>25% <th>50% <th>75% <th>90% <th>95% <th>100% <th>/</th> </th></th></th></th></th></th>	25% <th>50% <th>75% <th>90% <th>95% <th>100% <th>/</th> </th></th></th></th></th>	50% <th>75% <th>90% <th>95% <th>100% <th>/</th> </th></th></th></th>	75% <th>90% <th>95% <th>100% <th>/</th> </th></th></th>	90% <th>95% <th>100% <th>/</th> </th></th>	95% <th>100% <th>/</th> </th>	100% <th>/</th>	/
Y	N	NA	UKS	27-14 Are there major rust stains on the face panels? Along joints? If so, record total number.	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100%	/		
Y	N	NA	UKS	28-14 Are any internal steps exposed? Does there appear to be corrosion on these steps? If applicable please record the total number of steps affected.	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100%	/		
Y	N	NA	UKS	29-14 Was a readily visible alkali of exposed wall? If so, please indicate depth in inches.	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100%	/		
Y	N	NA	UKS	30-14 Are any indications of other corrosion (swelling bars, rust exposed metal inside epoxy coating)? If so please record the total number of panels affected.	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100%	/		

MISE IMPACT COLLISION PROTECTION

Measurement/Extent of Problem/Location/Photo Numbers																	
Required tests:	Concrete/CSF	Yes	No	NA	UKS <th>31-14 Are guardrails wall protrusions in place at the base of the wall (to prevent it from potential failure)?</th> <th>/ 0-No</th> <th>1%</th> <th>5% <th>10% <th>25% <th>50% <th>75% <th>90% <th>95% <th>100% <th>/</th> </th></th></th></th></th></th></th></th>	31-14 Are guardrails wall protrusions in place at the base of the wall (to prevent it from potential failure)?	/ 0-No	1%	5% <th>10% <th>25% <th>50% <th>75% <th>90% <th>95% <th>100% <th>/</th> </th></th></th></th></th></th></th>	10% <th>25% <th>50% <th>75% <th>90% <th>95% <th>100% <th>/</th> </th></th></th></th></th></th>	25% <th>50% <th>75% <th>90% <th>95% <th>100% <th>/</th> </th></th></th></th></th>	50% <th>75% <th>90% <th>95% <th>100% <th>/</th> </th></th></th></th>	75% <th>90% <th>95% <th>100% <th>/</th> </th></th></th>	90% <th>95% <th>100% <th>/</th> </th></th>	95% <th>100% <th>/</th> </th>	100% <th>/</th>	/
Y	N	NA	UKS	32-14 Does it appear that the wall has been involved in an accident (replaced panel, recent dips in the wall)? <td>/ 0-No</td> <td>1%</td> <td>5%</td> <td>10%</td> <td>25%</td> <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td>/</td>	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100%	/		
Y	N	NA	UKS	33-14 Does it appear the walls face-to-face and integrity has been compromised by a collision or accident? <td>/ 0-No</td> <td>1%</td> <td>5%</td> <td>10%</td> <td>25%</td> <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td>/</td>	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100%	/		

MISE OBSTRUCTIONS IN REINFORCEMENT GEOMETRY

Measurement/Extent of Problem/Location/Photo Numbers																	
Required tests:	Obstructions in Reinforcement Geometry	Yes	No	NA	UKS <th>34-14 Are there acute wall angles (<90)?</th> <th>/ 0-No</th> <th>1%</th> <th>5% <th>10% <th>25% <th>50% <th>75% <th>90% <th>95% <th>100% <th>/</th> </th></th></th></th></th></th></th></th>	34-14 Are there acute wall angles (<90)?	/ 0-No	1%	5% <th>10% <th>25% <th>50% <th>75% <th>90% <th>95% <th>100% <th>/</th> </th></th></th></th></th></th></th>	10% <th>25% <th>50% <th>75% <th>90% <th>95% <th>100% <th>/</th> </th></th></th></th></th></th>	25% <th>50% <th>75% <th>90% <th>95% <th>100% <th>/</th> </th></th></th></th></th>	50% <th>75% <th>90% <th>95% <th>100% <th>/</th> </th></th></th></th>	75% <th>90% <th>95% <th>100% <th>/</th> </th></th></th>	90% <th>95% <th>100% <th>/</th> </th></th>	95% <th>100% <th>/</th> </th>	100% <th>/</th>	/
Y	N	NA	UKS	35-14 Are there any obstructions or rebar protrusions that were not included in initial drawings?	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100%	/		
Y	N	NA	UKS	36-14 Have there been any excavations or evidence of excavations near the wall? (additional structure, irrigation, vegetation, etc.)	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100%	/		
Y	N	NA	UKS	37-14 Are there piles located in the wall (bridge abutments)?	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100%	/		

MISE AS BUILT DIFFERENT FROM DESIGN

Measurement/Extent of Problem/Location/Photo Numbers																	
Required tests:	Design/Construct	Yes	No	NA	UKS <th>38-14 Are there available drawings for the wall? Please indicate type (Situation and Layout, Design, As Built, etc.)</th> <th>/ 0-No</th> <th>1%</th> <th>5% <th>10% <th>25% <th>50% <th>75% <th>90% <th>95% <th>100% <th>/</th> </th></th></th></th></th></th></th></th>	38-14 Are there available drawings for the wall? Please indicate type (Situation and Layout, Design, As Built, etc.)	/ 0-No	1%	5% <th>10% <th>25% <th>50% <th>75% <th>90% <th>95% <th>100% <th>/</th> </th></th></th></th></th></th></th>	10% <th>25% <th>50% <th>75% <th>90% <th>95% <th>100% <th>/</th> </th></th></th></th></th></th>	25% <th>50% <th>75% <th>90% <th>95% <th>100% <th>/</th> </th></th></th></th></th>	50% <th>75% <th>90% <th>95% <th>100% <th>/</th> </th></th></th></th>	75% <th>90% <th>95% <th>100% <th>/</th> </th></th></th>	90% <th>95% <th>100% <th>/</th> </th></th>	95% <th>100% <th>/</th> </th>	100% <th>/</th>	/
Y	N	NA	UKS	39-14 Is the layout in general accordance with drawings?	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100%	/		
Y	N	NA	UKS	40-14 Are there any structures or rebar protrusions that were not included in initial drawings?	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100%	/		
Y	N	NA	UKS	41-14 Are there any excavations or evidence of excavations near the wall? (additional structure, irrigation, vegetation, etc.)	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100%	/		
Y	N	NA	UKS	42-14 Are there piles located in the wall (bridge abutments)?	/ 0-No	1%	5%	10%	25%	50%	75%	90%	95%	100%	/		