

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	300 W, E-80
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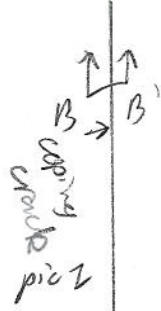
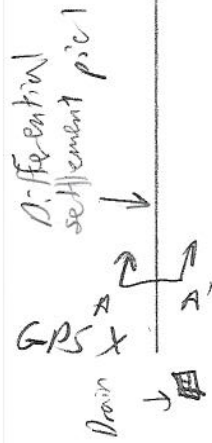
MSE WALL CHARACTERISTICS

MSE Wall at Bridge	(Y) N	Bridge Number if applicable:		Wall Number	R-348-1
Surrounding Structures				Maximum Height of Wall (ft)	38 ft
Distance to Each Structure				One Stage, Two Stage or Block Wall	?
State Route Number				Estimated Max Length of Wall Abutment:	540 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)	40° 43' 17.24" N, 111° 53' 58.19" W			Please draw rough layout of panel with approximate dimensions in space provided below:	
If known, Panel or System Manufacturer	<div style="border: 1px solid black; width: 150px; height: 100px; margin: 0 auto; position: relative;"> <div style="position: absolute; top: -20px; left: 50%; transform: translate(-50%, -50%);">10 ft</div> <div style="position: absolute; right: -20px; top: 50%; transform: translateY(-50%);">5 ft</div> </div>				

Summary of Key Observations:

Differing settlement

Plan View/Drainage:



Cross Sections:



Cross Sections:

RISE WALL DRAINAGE

Required Item:		Yes	No	N/A	UKN	Measurement/Extent of Problem/Location/Photo Numbers
1-Is there an active water source near the base of the wall (i.e. the wall near a body of water with sewer potential)?		Y	N	N/A	UKN	/ 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	UKN	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
3-Are there obstructions protruding through the wall?		Y	N	N/A	UKN	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
4-Are there vertical drains that extend through the backfill?		Y	N	N/A	UKN	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
5-If there are drains at the base of the wall or leveling pad? (Photo 12)		Y	N	N/A	UKN	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
6-Is there erosion along the wing wall?		Y	N	N/A	UKN	/ 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	UKN	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
8-Is there less than 14 feet between impaction ripraps and wall?		Y	N	N/A	UKN	/ 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	UKN	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
10-Is there vegetation growing in post joints (Photo 8)?		Y	N	N/A	UKN	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
11-Are the deck, drains and outlets at the top of the wall blocked? (Photo 14)		Y	N	N/A	UKN	Clear / 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
12-Can water enter the wall between coping and side (i.e. drain appropriately)?		Y	N	N/A	UKN	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
13-Is there evidence at discharge point of fill washing through drain pipe?		Y	N	N/A	UKN	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /

RISE WALL JOINTS

Required Item:		Yes	No	N/A	UKN	Measurement/Extent of Problem/Location/Photo Numbers
1-Is backfill coming out of joints or are there piles of backfill at the base of the wall? (Photos 2 & 3)		Y	N	N/A	UKN	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
2-Are there signs of water seepage or are there signs of backfill behind panels when looking into joints? (Photo 5) If so, record the approximate number of panels in the wall with seepage.		Y	N	N/A	UKN	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
3-Is there evidence of backfill in the horizontal joint? (Photo 3)		Y	N	N/A	UKN	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
4-Are there visible tears in the fabric? Is there evidence of backfill or water leaking through seam? (Do not include additional damage to fabric)		Y	N	N/A	UKN	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
5-Do the joints have a non-uniform horizontal spacing size? Are some horizontal joints larger than others? (Photo 6)		Y	N	N/A	UKN	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
6-Do the joints have a non-uniform vertical spacing size? Are some vertical joints larger than others? (Photo 6)		Y	N	N/A	UKN	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
7-Do the joints appear brittle, or appear as if it has undergone excessive UV exposure?		Y	N	N/A	UKN	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /

RISE WALL FACING

Required Item:		Yes	No	N/A	UKN	Measurement/Extent of Problem/Location/Photo Numbers
1-Is there excessive cracking in the panel? (Photo 9 & 10) If yes, record the approximate number of panels in the wall with cracking.		Y	N	N/A	UKN	/ 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	UKN	/ 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	UKN	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
4-Are the panel corners "popped-off" or chipped from contact with an adjacent panel? If yes, record the number in the wall.		Y	N	N/A	UKN	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
5-Does the existing coping suggest Differential Settlement?		Y	N	N/A	UKN	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
6-Does the existing coping exhibit Vertical Offset?		Y	N	N/A	UKN	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
7-Are the coping and parapets loose or detaching? If yes, how many are appropriate to contact L2DOT if detachment were to occur.		Y	N	N/A	UKN	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
8-Are the panels in danger of falling off? (If potential exist contact appropriate L2DOT region).		Y	N	N/A	UKN	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
9-Is there any evidence of maximum deformation from accessible coping to existing wall? (Photo 11)		Y	N	N/A	UKN	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
10-Is there any evidence of maximum degree of tipping from natural wing vertical level of not affected row.		Y	N	N/A	UKN	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /

RISE TOP OF WALL OBSERVATIONS

Required Item:		Yes	No	N/A	UKN	Measurement/Extent of Problem/Location/Photo Numbers
1-Is there evidence of settlement at the top of the wall? (movement cracking, etc)		Y	N	N/A	UKN	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
2-Are there any open cracks in the concrete coping (not bedding)? If yes, record the approximate maximum crack width.		Y	N	N/A	UKN	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
3-Is there any communication joints in the concrete coping opened up? (Photo 6). If yes, record the maximum joint width.		Y	N	N/A	UKN	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /

Y	N	N/A	UK	16-Is there a large gap between the approach slab and the approach pavement? (Photo 13) Office 616	/	0-No	1%	5%	10%	25%	50%	75%	90%	95%	100%
Y	N	N/A	UK	17-Is there a large gap between the approach slab and the approach pavement? (Photo 13) Office 616	/ <td>0-No</td> <td>1%</td> <td>5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> </td></td></td>	0-No	1%	5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> </td></td>	10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> </td>	25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td>	50%	75%	90%	95%	100%
Y	N	N/A	UK	18-Is there a joint between the wall coping and the abutment apron of significance? If so, record maximum distance.	/ <td>0-No</td> <td>1%</td> <td>5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> </td></td></td>	0-No	1%	5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> </td></td>	10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> </td>	25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td>	50%	75%	90%	95%	100%
Y	N	N/A	UK	19-Is the coping wall pushing away from pavement/roadway section? Please record maximum displacement for wall.	/ <td>0-No</td> <td>1%</td> <td>5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> </td></td></td>	0-No	1%	5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> </td></td>	10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> </td>	25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td>	50%	75%	90%	95%	100%

MSE STABILITY

Required Item:		Measure/Extent of Problem/Location/Photo Numbers	Y	N	N/A	UK	20-What is the location depth of leveling grade? Found One-Probe into wall located 2 inches from wall as maximum depth of 24 inches in the minimum depth for MSE Wall	/	0-No	1%	5%	10%	25%	50%	75%	90%	95%	100%
Y	N	N/A	UK	20-What is the location depth of leveling grade? Found One-Probe into wall located 2 inches from wall as maximum depth of 24 inches in the minimum depth for MSE Wall	/ <td>0-No</td> <td>1%</td> <td>5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td></td>	0-No	1%	5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td>	10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td>	25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td>	50%	75%	90%	95%	100%			
Y	N	N/A	UK	21-Is leveling grade exposed?	/ <td>0-No</td> <td>1%</td> <td>5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td></td>	0-No	1%	5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td>	10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td>	25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td>	50%	75%	90%	95%	100%			
Y	N	N/A	UK	22-Is there cracking in the leveling pad? If so, record maximum crack size with gauge	/ <td>0-No</td> <td>1%</td> <td>5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td></td>	0-No	1%	5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td>	10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td>	25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td>	50%	75%	90%	95%	100%			
Y	N	N/A	UK	23-Is there a four foot back (level slope) directly along the wall before the slope changes (Second Wall)?	/ <td>0-No</td> <td>1%</td> <td>5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td></td>	0-No	1%	5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td>	10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td>	25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td>	50%	75%	90%	95%	100%			
Y	N	N/A	UK	24-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.	/ <td>0-No</td> <td>1%</td> <td>5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td></td>	0-No	1%	5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td>	10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td>	25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td>	50%	75%	90%	95%	100%			
Y	N	N/A	UK	25-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.	/ <td>0-No</td> <td>1%</td> <td>5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td></td>	0-No	1%	5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td>	10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td>	25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td>	50%	75%	90%	95%	100%			
Y	N	N/A	UK	26-Is there excessive degradation of gravel face?	/ <td>0-No</td> <td>1%</td> <td>5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td></td>	0-No	1%	5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td>	10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td>	25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td>	50%	75%	90%	95%	100%			

MSE METAL CORROSION

Required Item:		Measure/Extent of Problem/Location/Photo Numbers	Y	N	N/A	UK	27-Is there excessive corrosion on guardrails or other exposed metal that might indicate concrete condition?	/	0-No	1%	5%	10%	25%	50%	75%	90%	95%	100%
Y	N	N/A	UK	27-Is there excessive corrosion on guardrails or other exposed metal that might indicate concrete condition?	/ <td>0-No</td> <td>1%</td> <td>5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td></td>	0-No	1%	5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td>	10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td>	25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td>	50%	75%	90%	95%	100%			
Y	N	N/A	UK	28-Are there major rust stains on the face panel? Along joints? If so, record total number.	/ <td>0-No</td> <td>1%</td> <td>5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td></td>	0-No	1%	5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td>	10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td>	25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td>	50%	75%	90%	95%	100%			
Y	N	N/A	UK	29-Are any internal straps exposed? Does there appear to be corrosion on these straps? If applicable please record the total number of straps affected.	/ <td>0-No</td> <td>1%</td> <td>5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td></td>	0-No	1%	5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td>	10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td>	25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td>	50%	75%	90%	95%	100%			
Y	N	N/A	UK	30-Is a rebar visible at any point of exposure? If so, please indicate depth in inches	/ <td>0-No</td> <td>1%</td> <td>5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td></td>	0-No	1%	5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td>	10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td>	25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td>	50%	75%	90%	95%	100%			
Y	N	N/A	UK	31-Is there any indication of other corrosion (cracking, rust, exposed metal inside epoxy coating)? If so, please record the total number of panels affected.	/ <td>0-No</td> <td>1%</td> <td>5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td></td>	0-No	1%	5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td>	10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td>	25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td>	50%	75%	90%	95%	100%			

MSE IMPACT/COLLISION PROTECTION

Required Item:		Measure/Extent of Problem/Location/Photo Numbers	Y	N	N/A	UK	32-Is there any indication of impact/collision?	/	0-No	1%	5%	10%	25%	50%	75%	90%	95%	100%
Y	N	N/A	UK	32-Is there any indication of impact/collision?	/ <td>0-No</td> <td>1%</td> <td>5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td></td>	0-No	1%	5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td>	10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td>	25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td>	50%	75%	90%	95%	100%			
Y	N	N/A	UK	33-Does it appear the wall functionality and integrity has been compromised by a collision or accident?	/ <td>0-No</td> <td>1%</td> <td>5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td></td>	0-No	1%	5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td>	10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td>	25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td>	50%	75%	90%	95%	100%			

MSE OBSTRUCTIONS IN REINFORCEMENT GEOMETRY

Required Item:		Measure/Extent of Problem/Location/Photo Numbers	Y	N	N/A	UK	34-Are there any obstructions in reinforcement geometry?	/	0-No	1%	5%	10%	25%	50%	75%	90%	95%	100%
Y	N	N/A	UK	34-Are there any obstructions in reinforcement geometry?	/ <td>0-No</td> <td>1%</td> <td>5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td></td>	0-No	1%	5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td>	10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td>	25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td>	50%	75%	90%	95%	100%			

MSE AS BUILT DIFFERENT FROM DESIGN

Required Item:		Measure/Extent of Problem/Location/Photo Numbers	Y	N	N/A	UK	35-Is there any difference between the as-built and the design? (e.g., location, depth, etc.)	/	0-No	1%	5%	10%	25%	50%	75%	90%	95%	100%
Y	N	N/A	UK	35-Is there any difference between the as-built and the design? (e.g., location, depth, etc.)	/ <td>0-No</td> <td>1%</td> <td>5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td></td>	0-No	1%	5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td>	10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td>	25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td>	50%	75%	90%	95%	100%			
Y	N	N/A	UK	36-Is there any difference between the as-built and the design? (e.g., location, depth, etc.)	/ <td>0-No</td> <td>1%</td> <td>5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td></td>	0-No	1%	5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td>	10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td>	25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td>	50%	75%	90%	95%	100%			
Y	N	N/A	UK	37-Is there any difference between the as-built and the design? (e.g., location, depth, etc.)	/ <td>0-No</td> <td>1%</td> <td>5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td></td>	0-No	1%	5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td>	10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td>	25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td>	50%	75%	90%	95%	100%			
Y	N	N/A	UK	38-Is there any difference between the as-built and the design? (e.g., location, depth, etc.)	/ <td>0-No</td> <td>1%</td> <td>5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td></td>	0-No	1%	5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td>	10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td>	25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td>	50%	75%	90%	95%	100%			
Y	N	N/A	UK	39-Is there any difference between the as-built and the design? (e.g., location, depth, etc.)	/ <td>0-No</td> <td>1%</td> <td>5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td></td>	0-No	1%	5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td>	10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td>	25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td>	50%	75%	90%	95%	100%			
Y	N	N/A	UK	40-Is there any difference between the as-built and the design? (e.g., location, depth, etc.)	/ <td>0-No</td> <td>1%</td> <td>5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td></td>	0-No	1%	5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td>	10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td>	25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td>	50%	75%	90%	95%	100%			
Y	N	N/A	UK	41-Is there any difference between the as-built and the design? (e.g., location, depth, etc.)	/ <td>0-No</td> <td>1%</td> <td>5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td></td>	0-No	1%	5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td>	10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td>	25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td>	50%	75%	90%	95%	100%			
Y	N	N/A	UK	42-Is there any difference between the as-built and the design? (e.g., location, depth, etc.)	/ <td>0-No</td> <td>1%</td> <td>5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td></td>	0-No	1%	5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td>	10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td>	25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td>	50%	75%	90%	95%	100%			
Y	N	N/A	UK	43-Is there any difference between the as-built and the design? (e.g., location, depth, etc.)	/ <td>0-No</td> <td>1%</td> <td>5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td></td>	0-No	1%	5% <td>10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td></td>	10% <td>25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td> </td>	25% <td>50%</td> <td>75%</td> <td>90%</td> <td>95%</td> <td>100%</td> <td></td> <td></td> <td></td>	50%	75%	90%	95%	100%			