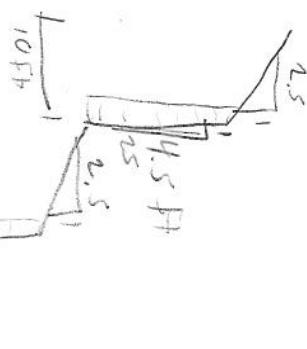


STATE OF UTAH MSE WALL INSPECTION FORM			
Instructions:			
1-Fill out required sections for MSE Wall Inspector and Wall Characteristics.			
2-Inspect the wall using the attached form. Questions that require a Yes/No answer should be documented by noting the extent of the problem in the right most column and photo documentation should consist of wall or bridge number, name 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 indented with the approximate road name should be taken in the space provided for drawings.			
3-Shot 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-Digital Layout of MSE Wall in respect to major intersections, roadways, potential hazards, triangulation, location, locations of conditions for which Yes was marked, etc. in space provided below. Also indicate approximate GPS coordinates of site of MSE Wall in respect to major intersections, roadways, potential hazards, triangulation, location, 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.			
MSE WALL CHARACTERISTICS			
Region	3	Identifying Road/Intersection	I-15, Provo & 600 E
MSE Wall at Bridge	N	Bridge Number if applicable	R-3741A-G
Surrounding Structures		Maximum Height of Wall (ft)	55 ft
Distance to Edge Structure		One Stage, Two Stage or Block Wall	One Stage
Slab Route Number		Estimated Max Length of Wall Above	215 ft
Approximate Mile Marker	0.51	Max Slope of Ground in front of wall:	0
GPS Datum	WGS/84, NAD/83, or NAD/27	Max Height of wall behind line above surrounding level ground:	0
MSE Wall GPS Coordinates (Location of Measurment shown on plan view)	40° 20' S 93° 11' W 11° 46' 4.70" W		
Please draw rough layout of panel with approximate dimensions in space provided below:			
Summary of Key Observations:			
<p>18 ft</p> <p>8 ft</p>			

Plan View/Drainage:



Cross Sections:



Cross Sections:

## MSE WALL DRAINAGE

Required Test: MSE Wall Face Drainage				Measurement/Estimate of Problem Locations/Photo Numbers											
Yes	No	N/A	UNK	Drainage											
Y	N	N/A	UNK	14) Are there any new water source near the toe of the wall (in the back wall) or body of wall with a head? (Photo 2 & 3)	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	N	N/A	UNK	24) Is there evidence of water infiltration at the base of the wall block(s)?	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	(S)	N/A	UNK	3) Are there cracks extending through the wall?	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	(S)	N/A	UNK	4) Are there vertical joints that travel through the backfill?	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	(S)	N/A	UNK	5) Are there erosion at the base of the wall or toe of the backfill?	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	(S)	N/A	UNK	6) Is there erosion along the wing wall?	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	(S)	N/A	UNK	7) Are there any signs of water flow along the base of the wall?	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
(P)	N	N/A	UNK	8) Are there any signs of water infiltration (water stains and soil)?	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	(S)	N/A	UNK	9) Are there signs of water infiltration (water stains and soil)?	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	(S)	N/A	UNK	10) Are there signs of water infiltration (water stains and soil)?	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	(S)	N/A	UNK	11) Are there signs of water infiltration (water stains and soil)?	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	N	N/A	UNK	12) Is water entering the wall between coping and slab (i.e., Drain appropriately)?	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	(S)	N/A	UNK	13) Is there evidence of water infiltration of fill walking through drain pipe?	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
<b>MSE WALL JOINTS</b>															
Required Test: Long Lasting Coping Joints	Joint														
Y	N	N/A	UNK	14) Is backfill coming out of joints or over berms of fill at the base of the wall? (Photos 2 & 3)	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	N	N/A	UNK	15) Are the joints wide enough to see drainage in backfill behind joints when looking into joints? (Photo 5) /	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	N	N/A	UNK	16) Is there evidence of water infiltration at the bottom of the vertical joint? (Photo 4)	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	S	N/A	UNK	17) Are there visible tears in the fabric? (Is there evidence of backfill or air leaking through tear?) Do not indicate additional damage to fabric.	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	N	N/A	UNK	18) Are the joints loose & non-uniform vertical spacing size? Are some vertical joints larger/maller than others? (Photo 6)	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	(S)	N/A	UNK	19) Do the joints have a non-uniform vertical spacing size? Are some vertical joints larger/maller than others? (Photo 6)	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	N/A	N/A	UNK	20) Are the joints loose, or appear stiff but not analogous to concrete U-joist?	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	(S)	N/A	UNK	21) Does the fiber appear brittle, or appear stiff but not analogous to concrete U-joist?	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
<b>MSE WALL FACING</b>															
Required Test: Long Lasting Coping Joints	Measurement/Estimate of Problem Locations/Photo Numbers														
Y	N	N/A	UNK	1) Are there any signs of water infiltration at the base of the wall?	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	S	N/A	UNK	2) Are there any signs of water infiltration at the top of the wall?	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	N	N/A	UNK	3) Are there any signs of water infiltration at the top of the wall?	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	(S)	N/A	UNK	4) Are there any signs of water infiltration at the top of the wall?	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	N	N/A	UNK	5) Are there any signs of water infiltration at the top of the wall?	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	(S)	N/A	UNK	6) Are there any signs of water infiltration at the top of the wall?	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	N	N/A	UNK	7) Are there any signs of water infiltration at the top of the wall?	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	(S)	N/A	UNK	8) Are there any signs of water infiltration at the top of the wall?	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	N	N/A	UNK	9) Are there any signs of water infiltration at the top of the wall?	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	(S)	N/A	UNK	10) Are there any signs of water infiltration at the top of the wall?	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
<b>MSE TOP OF WALL OBSERVATIONS</b>															
Required Test: Long Lasting Coping Joints	Measurement/Estimate of Problem Locations/Photo Numbers														
Y	N	N/A	UNK	1) Are there any signs of water infiltration at the top of the wall?	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	S	N/A	UNK	2) Are there any signs of water infiltration at the top of the wall?	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	N	N/A	UNK	3) Are there any signs of water infiltration at the top of the wall?	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	(S)	N/A	UNK	4) Are there any signs of water infiltration at the top of the wall?	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	N	N/A	UNK	5) Are there any signs of water infiltration at the top of the wall?	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	(S)	N/A	UNK	6) Are there any signs of water infiltration at the top of the wall?	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	N	N/A	UNK	7) Are there any signs of water infiltration at the top of the wall?	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	(S)	N/A	UNK	8) Are there any signs of water infiltration at the top of the wall?	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	N	N/A	UNK	9) Are there any signs of water infiltration at the top of the wall?	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /
Y	(S)	N/A	UNK	10) Are there any signs of water infiltration at the top of the wall?	/	0-5%	1%	5%	10%	25%	50%	75%	90%	95%	100% /

Required Test: Survey Test/Probe		Structural Integrity													
Yes	No	N/A	UNK	36-Inches + 1/2" gap between the approach slab and the approach pavement? (Photo 15) Often this produces a bump condition as it is driven if it is raised. Record the approximate maximum gap size.	/	0-Na	1%	5%	10%	25%	50%	75%	90%	95%	100% /
V	N	N/A	UNK	37-The shims/bars in the field and the distance opened up again from the original?	/	0-Na	1%	5%	10%	25%	50%	75%	90%	95%	100% /
V	N	N/A	UNK	38-is the existing wall pulling away from permanent roadway surface? Please record minimum displacement for wall.	/	0-Na	1%	5%	10%	25%	50%	75%	90%	95%	100% /
N/A SIMILARITY															
Required Test: N/A/Materials-Corrugated Zip Lock Bag-Torial		N/A SIMILARITY													
Yes	No	N/A	UNK	Measurement Extent of Problem Selection/Probe Numbers											
V	N	N/A	UNK	39-Wall is at least 1/2" below ground surface? Record the maximum depth for N/A Wall.	/	0-Na	1%	5%	10%	25%	50%	75%	90%	95%	100% /
V	N	N/A	UNK	40-is leveling pad exposed?	/	0-Na	1%	5%	10%	25%	50%	75%	90%	95%	100% /
V	N	N/A	UNK	41-is there cracking in the leveling pad? If so, record maximum crack size with gage.	/	0-Na	1%	5%	10%	25%	50%	75%	90%	95%	100% /
V	N	N/A	UNK	42-H-where is first bend (level change) directly along the wall before the slope changes? (Record Wall)	/	0-Na	1%	5%	10%	25%	50%	75%	90%	95%	100% /
V	N	N/A	UNK	43-H-Slope is steeper than V-1.5 to H-1 in front of the wall? Please record slope and height of backfill behind the above step of wall.	/	0-Na	1%	5%	10%	25%	50%	75%	90%	95%	100% /
V	N	N/A	UNK	44-H-Slope is steeper than V-1.5 to H-1 below the wall? Please record slope and height of backfill below the wall.	/	0-Na	1%	5%	10%	25%	50%	75%	90%	95%	100% /
V	N	N/A	UNK	45-is there excessive degradation of road surface?	/	0-Na	1%	5%	10%	25%	50%	75%	90%	95%	100% /
N/A METAL CORROSION															
Required Test: N/A/Materials-Corrugated Zip Lock Bag-Torial		N/A METAL CORROSION													
Yes	No	N/A	UNK	Measurement Extent of Problem Selection/Probe Numbers											
V	N	N/A	UNK	46-is there excessive corrosion on groundbar or other exposed metal that might indicate corrosion conditions?	/	0-Na	1%	5%	10%	25%	50%	75%	90%	95%	100% /
V	N	N/A	UNK	47-Is there major red stain on the face panel(s) along length? If so, record total number.	/	0-Na	1%	5%	10%	25%	50%	75%	90%	95%	100% /
V	N	N/A	UNK	48-Are any internal stains visible? Does this appear to be corrosion on these stains? If applicable please record the total number of stains affected.	/	0-Na	1%	5%	10%	25%	50%	75%	90%	95%	100% /
V	N	N/A	UNK	49-Was a residual sample taken of exposed wall? If so, please indicate depth in inches.	/	0-Na	1%	5%	10%	25%	50%	75%	90%	95%	100% /
V	N	N/A	UNK	50-Are any signs of fiber corrosion (swelling, loss of exposed metal, exposed metal ends epoxy coating)? If so please record the total number of cracks affected.	/	0-Na	1%	5%	10%	25%	50%	75%	90%	95%	100% /
N/A IMPACT/COLLISION PROTECTION															
Required Test: Impact/Collision		N/A IMPACT/COLLISION													
Yes	No	N/A	UNK	Measurement Extent of Problem Selection/Probe Numbers											
V	N	N/A	UNK	51-Are any protrusions/wall protection in place at the base of the wall? (protect it from potential traffic barrier?)	/	0-Na	1%	5%	10%	25%	50%	75%	90%	95%	100% /
V	N	N/A	UNK	52-Does it appear that the wall has been involved in an accident (crushed probe, recent drugs in the wall)?	/	0-Na	1%	5%	10%	25%	50%	75%	90%	95%	100% /
V	N	N/A	UNK	53-Does it appear the walls functionality was integrity has been compromised by collision or accident?	/	0-Na	1%	5%	10%	25%	50%	75%	90%	95%	100% /
N/A OBSTRUCTIONS IN REINFORCEMENT GEOMETRY															
Required Test: Drawings		N/A OBSTRUCTIONS IN REINFORCEMENT GEOMETRY													
Yes	No	N/A	UNK	Measurement Extent of Problem Selection/Probe Numbers											
V	N	N/A	UNK	54-Are there acute wall angles (<90°)?	/	0-Na	1%	5%	10%	25%	50%	75%	90%	95%	100% /
N/A AS BUILT DIFFERENT FROM DESIGN															
Required Test: Drawing/Construction		N/A AS BUILT DIFFERENT FROM DESIGN													
Yes	No	N/A	UNK	Measurement Extent of Problem Selection/Probe Numbers											
V	N	N/A	UNK	55-Are there any visible drawings for the as-built? Record type (Schematic and Layout, Design, As-Built, etc.)	/	0-Na	1%	5%	10%	25%	50%	75%	90%	95%	100% /
V	N	N/A	UNK	56-is the layout in general accordance with drawings?	/	0-Na	1%	5%	10%	25%	50%	75%	90%	95%	100% /
V	N	N/A	UNK	57-Are the punch CIP (Cuts in Place) Drawings repeat to be excessive cracking in the probe?	/	0-Na	1%	5%	10%	25%	50%	75%	90%	95%	100% /
V	N	N/A	UNK	58-Have GIC/Tem used in the construction of the wall?	/	0-Na	1%	5%	10%	25%	50%	75%	90%	95%	100% /
V	N	N/A	UNK	59-Are there any obstructions on the wall that were not included in initial drawings?	/	0-Na	1%	5%	10%	25%	50%	75%	90%	95%	100% /
V	N	N/A	UNK	60-Are there any irregularities, offsets, or obstructions that are not part of the initial drawing?	/	0-Na	1%	5%	10%	25%	50%	75%	90%	95%	100% /
V	N	N/A	UNK	61-Have there been any evidence of excavation near the wall?	/	0-Na	1%	5%	10%	25%	50%	75%	90%	95%	100% /
V	N	N/A	UNK	62-Have local property owners changed the dynamics of the wall (additional structures, mitigation, vegetation, etc.)	/	0-Na	1%	5%	10%	25%	50%	75%	90%	95%	100% /
V	N	N/A	UNK	63-Are there piles located in the wall (bridge abutments)?	/	0-Na	1%	5%	10%	25%	50%	75%	90%	95%	100% /