

STATE OF UTAH MSE WALL INSPECTION FORM

Compiled As Part of Research By The Utah Department of Transportation

Instructions:

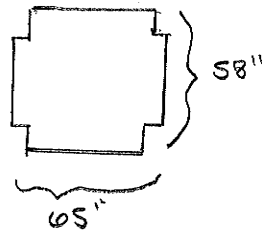
- 1-Fill out required sections for MSE Wall Inspector and Wall Characteristics.
- 2-Inspect the wall using the attached form. Questions that require a 'Yes' answer should be documented by noting the extent of the problem in the right most column and photo documentation. Photo documentation should consist 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	7/25	Names Of Inspectors	Ryan maw, Hollygriffin
Region	1	Identifying Road/Intersection	US-91/89 and Mantua

MSE WALL CHARACTERISTICS

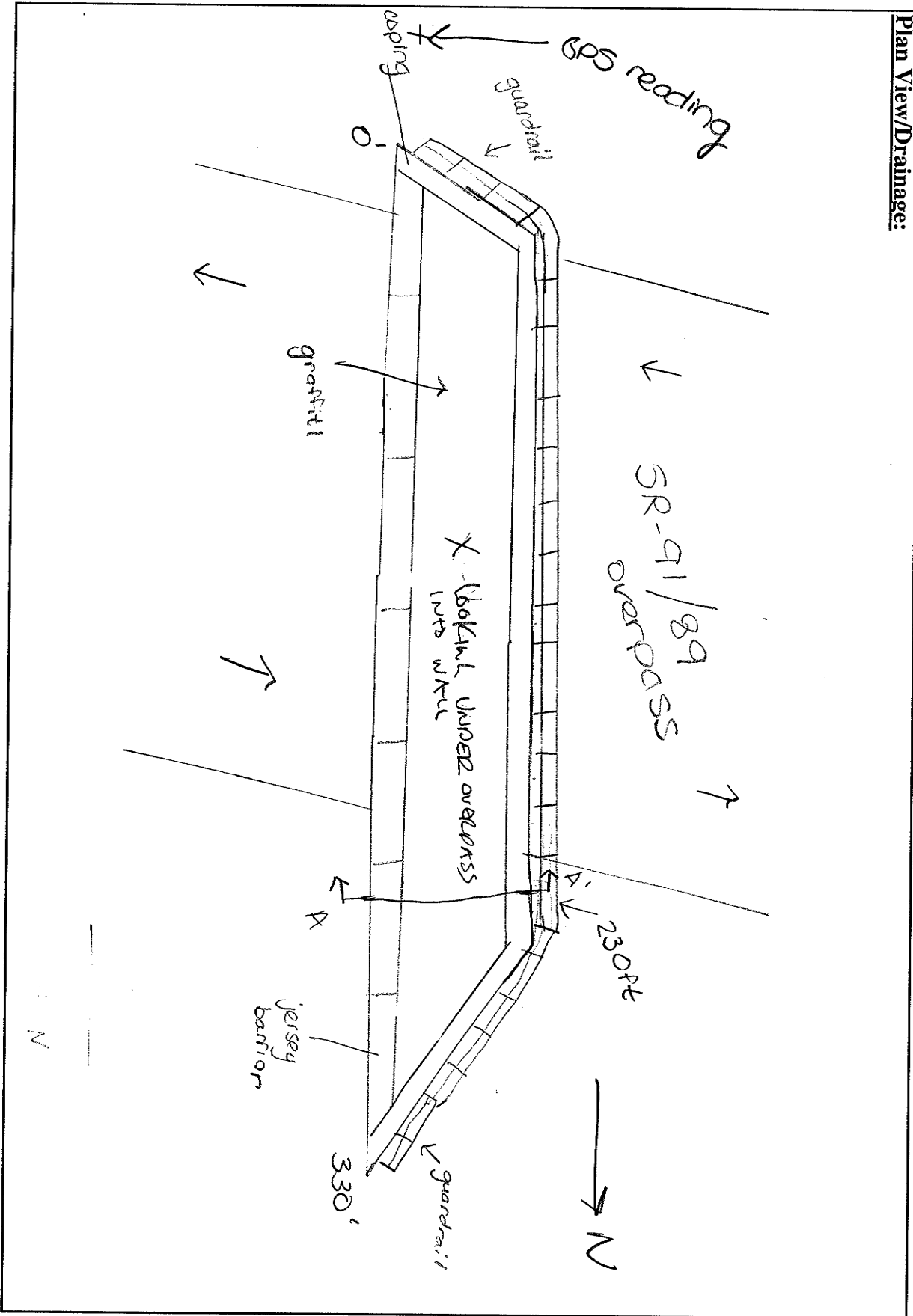
MSE Wall at Bridge	Y N	Bridge Number if applicable:	E-578	Wall Number	R-276
Surrounding Structures	Cantilever wall - 40 ft.		Maximum Height of Wall (ft)	20ft	
Distance to Each Structure	40ft. across road		One Stage, Two Stage or Block Wall	one stage	
State Route Number	SR-91/89		Estimated Max Length of Wall Abutment:	330' 330'	
Approximate Mile Marker	6		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:	20ft 4in	
MSE Wall GPS Coordinates (Location of Measurement shown on plan view)	N 41° 29.868		Please draw rough layout of panel with approximate dimensions in space provided below:		
	W 111° 57.223				
If known, Panel or System Manufacturer	VSL VSL		58 x 65		



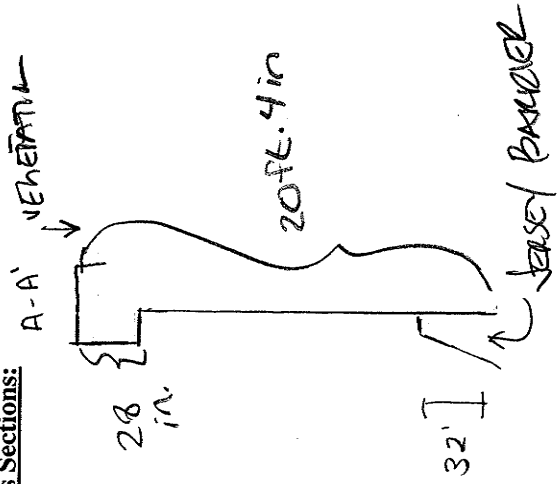
Summary of Key Observations:

vertical drain partially blocked
corrosion of metal guardrail

Plan View/Drainage:



Cross Sections:



Cross Sections:

SMALL Amount

REQUIREMENT		YES	NO	REMARKS	MEMBER NUMBER OF PREVIOUS DESIGN PERIOD	PERCENT	MEMBER NUMBER OF PREVIOUS DESIGN PERIOD	PERCENT							
1	16-Is there a stop end between the adjacent side and the opposite necessary (about 15' typical min. produce a bending moment as the overpass is crossed. Record the settlement spaced up approximately 1' for needed maximum distance.	Y	N/A	URN	/	0-500	1%	5%	10%	25%	50%	75%	90%	95%	100%
2	17-At the abutments, was the joint between the wall settling and the settlement spaced up approximately 1' for needed maximum distance.	Y	N/A	URN	/	0-500	1%	5%	10%	25%	50%	75%	90%	95%	100%
3	18-Is the settling/wall pulling away from parameter/roadway position? Please record maximum displacement for wall.	Y	N/A	URN	/	0-500	1%	5%	10%	25%	50%	75%	90%	95%	100%
RISE STABILITY															
REQUIREMENT															
4	19-What is the bearing depth of leveling pad? Please note: 2 inches from wall to 4 minimum depth at 24 inches (24 inches is the minimum depth for MSE Wall)	Y	N/A	URN	/	0-500	1%	5%	10%	25%	50%	75%	90%	95%	100%
5	20-Is leveling pad exposed?	Y	N/A	URN	/	0-500	1%	5%	10%	25%	50%	75%	90%	95%	100%
6	21-Is there cracking in the leveling pad? If so, record maximum crack size with gaps.	Y	N/A	URN	/	0-500	1%	5%	10%	25%	50%	75%	90%	95%	100%
7	22-Is there a full back (level slope) directly along the wall below the slope change (Recent) width?	Y	N/A	URN	/	0-500	1%	5%	10%	25%	50%	75%	90%	95%	100%
8	23-Is there a slope steeper than V: 1.5 to 1:1 in front of the wall? Please record slope and height of backfill above top of wall.	Y	N/A	URN	/	0-500	1%	5%	10%	25%	50%	75%	90%	95%	100%
9	24-Is there a slope greater than V: 1.5 to 1:1 below the wall? Please record slope and height of backfill below the wall.	Y	N/A	URN	/	0-500	1%	5%	10%	25%	50%	75%	90%	95%	100%
10	25-Is there excessive degradation of paved base?	Y	N/A	URN	/	0-500	1%	5%	10%	25%	50%	75%	90%	95%	100%
RISE METAL CORROSION															
REQUIREMENT															
11	26-Is there excessive corrosion on guardrails or other exposed metal that might indicate concrete condition?	Y	N/A	URN	/	0-500	1%	5%	10%	25%	50%	75%	90%	95%	100%
12	27-Are there major rust stains on the face panels? Along joint? If so, record total number.	Y	N/A	URN	/	0-500	1%	5%	10%	25%	50%	75%	90%	95%	100%
13	28-Are any internal strip exposed? Does there appear to be corrosion on these strips? If applicable please record the total number of strips affected.	Y	N/A	URN	/	0-500	1%	5%	10%	25%	50%	75%	90%	95%	100%
14	29-How is rebar exposed? Please indicate depth in inches.	Y	N/A	URN	/	0-500	1%	5%	10%	25%	50%	75%	90%	95%	100%
15	30-Is there any indication of rebar corrosion (pitting, rust, exposed metal, white epoxy coating)? If so, please record the total number of panels affected.	Y	N/A	URN	/	0-500	1%	5%	10%	25%	50%	75%	90%	95%	100%
RISE IMPACT COLLISION PROTECTION															
REQUIREMENT															
16	31-Are penetrable wall procedures in place at the base of the wall (to protect it from potential failure)?	Y	N/A	URN	/	0-500	1%	5%	10%	25%	50%	75%	90%	95%	100%
17	32-Does it appear that the wall has been involved in an accident (replaced panel, recent damage to the wall)?	Y	N/A	URN	/	0-500	1%	5%	10%	25%	50%	75%	90%	95%	100%
18	33-Does it appear the wall's structural integrity has been compromised by a collision or accident?	Y	N/A	URN	/	0-500	1%	5%	10%	25%	50%	75%	90%	95%	100%
RISE CURT RATIONS IN REINFORCEMENT CONCRETE															
REQUIREMENT															
19	34-Are there acute wall angles (<90°)?	Y	N/A	URN	/	0-500	1%	5%	10%	25%	50%	75%	90%	95%	100%
RISE AS BUILT DIFFERENT FROM DESIGN															
REQUIREMENT															
20	35-Are there available drawings for the wall? Please indicate type (Situation and Layout, Detail, As Built, etc.)	Y	N/A	URN	/	0-500	1%	5%	10%	25%	50%	75%	90%	95%	100%
21	36-Is the layout in general accordance with drawings?	Y	N/A	URN	/	0-500	1%	5%	10%	25%	50%	75%	90%	95%	100%
22	37-Are the panels CIP (Cast in Place) Does there appear to be excessive cracking in the panels?	Y	N/A	URN	/	0-500	1%	5%	10%	25%	50%	75%	90%	95%	100%
23	38-Was DEFLECTION used in the construction of the wall?	Y	N/A	URN	/	0-500	1%	5%	10%	25%	50%	75%	90%	95%	100%
24	39-Are there any anchors on or near wall that were not included in initial drawings?	Y	N/A	URN	/	0-500	1%	5%	10%	25%	50%	75%	90%	95%	100%
25	40-Are there any irrigation, utilities, or manholes that are not part of the initial drawings?	Y	N/A	URN	/	0-500	1%	5%	10%	25%	50%	75%	90%	95%	100%
26	41-Have there been any excavations or evidence of excavations near the wall?	Y	N/A	URN	/	0-500	1%	5%	10%	25%	50%	75%	90%	95%	100%
27	42-Have there been any changes to the dynamics of the wall (additional structures, irrigation, vegetation, etc.)?	Y	N/A	URN	/	0-500	1%	5%	10%	25%	50%	75%	90%	95%	100%
28	43-Are there piles located in the wall (bridge abutment)?	Y	N/A	URN	/	0-500	1%	5%	10%	25%	50%	75%	90%	95%	100%

Jersey Barrier

4' x 23"

Guardrail Post (East)