

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	7/26/07	Names Of Inspectors	Ryan May, Holly Goffin
Region	1	Identifying Road/Intersection	1350 S, SR-126 (mle 14)

MSE WALL CHARACTERISTICS

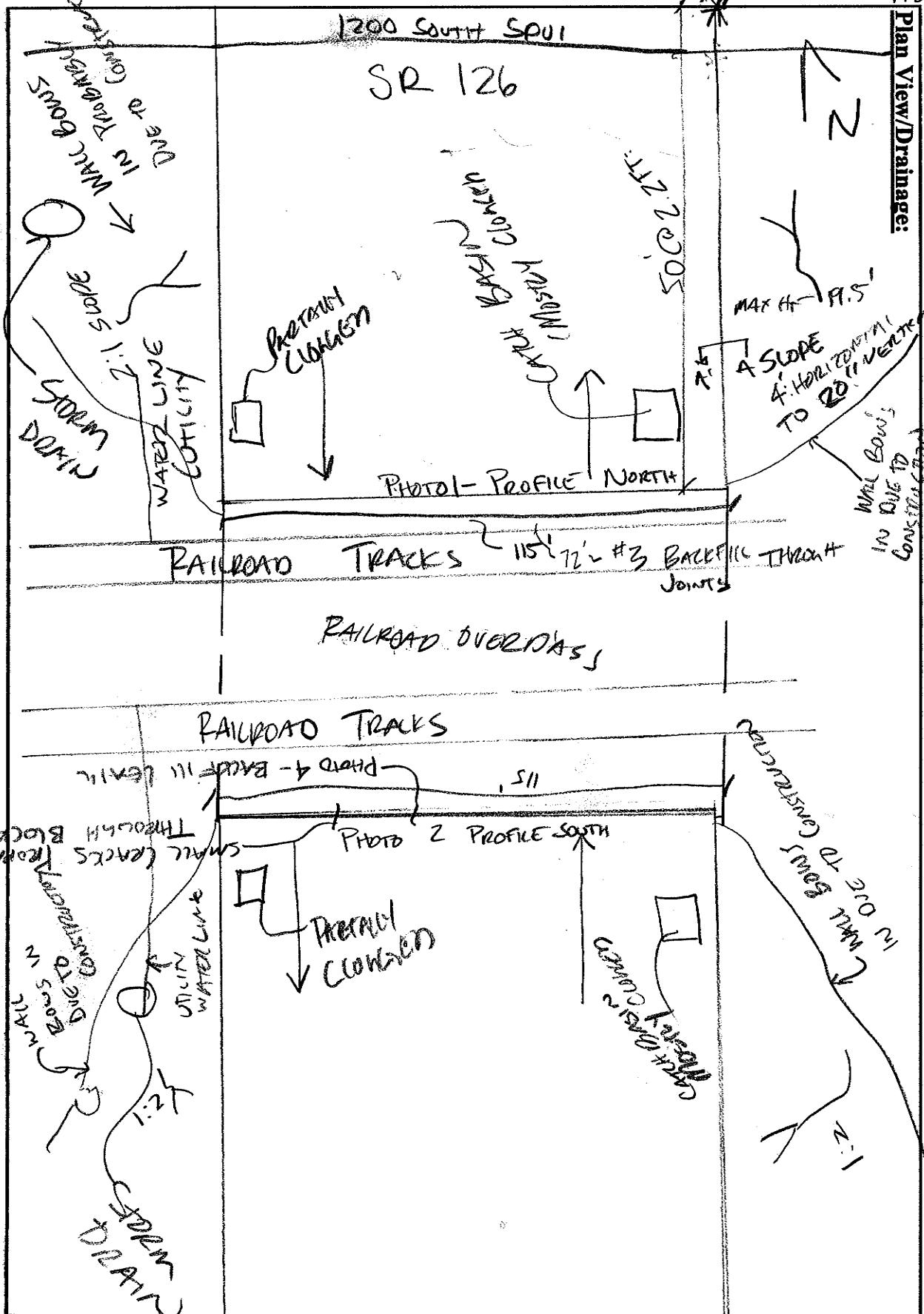
MSE Wall at Bridge	<input checked="" type="radio"/> Y N	Bridge Number if applicable:	C-913	Wall Number	R-381
Surrounding Structures	railroad - 20 ft.				
Distance to Each Structure	20 ft				
State Route Number	SR-126				
Approximate Mile Marker	14				
GPS Datum	WGS/84, NAD/83, or NAD/27				
MSE Wall GPS Coordinates (Location of Measurement shown on plan view)	N 41° 14.661' W 112° 01.509'				
If known, Panel or System Manufacturer	Tensar				
Please draw rough layout of panel with approximate dimensions in space provided below:  TENSAR					

Summary of Key Observations:

HPS N 91 14.061
W 112° 0.509'

HPS W 112° d. 509'

Plan View/Drainage:

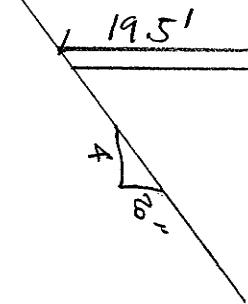


Cross Sections:

A-A'

Handrail

Top cemented



Cross Sections:

MSI WALL DRILLAGE											
Required Test: NYS Standard Test Specimen			Drilling			Measurement/Excut of Problem/Specimen/Photo Number					
No.	No.	UNN									
V	N	NA	UNN	14-is there an active water source near the top of the wall (in the wall or body of water with flow)	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /						
V	N	NA	UNN	2-if applicable, are the crack/bat in the base of the wall blocked?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /						
V	N	NA	UNN	3-are there cracks/grooving through the wall?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /						
V	N	NA	UNN	4-is/were vertical joints last (and through the backfill)?							
V	N	NA	UNN	5-is there erosion at the base of the wall or flooding (Photo 12)							
V	S	NA	UNN	6-is there erosion along the water wall?							
V	N	NA	UNN	7-is/were any signs of water flowing along the base of the wall?							
V	N	NA	UNN	8-is/were less than 10 feet between irrigation sprinklers and wall?							
V	N	NA	UNN	9-are the blocks to joint plane open on the surface?							
V	N	NA	UNN	10-is there vegetation growing in joints (Photo 8)?							
V	N	NA	UNN	11-Are the deck joints and sections at the top of the wall blocked? (Photo 13)							
V	N	NA	UNN	12-Can water enter the wall between splices and seals (i.e., Photo 9) symmetrically?							
V	N	NA	UNN	13-Is there evidence of delamination points of fill washing through joints (Photo 2)?							
V	N	NA	UNN	14-Is there evidence of cracking/joint failure along joints?							
MSI WALL JOINTS											
Required Test: NYS Standard Test Specimen			Measurement/Excut of Problem/Section/Photo Numbers								
No.	No.	NA	UNN								
V	N	NA	UNN	14-1-block/tile coming out of joints or are there pieces of block/tile at the base of the wall? (Photos 2 & 3)	modular block						
V	N	NA	UNN	15-are the joints wide enough to see fins or block/tile behind joints and facing, also joints? (Photo 5)	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /						
V	N	NA	UNN	16-is record the approximate maximum joint width in inches?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /						
V	N	NA	UNN	17-is record the approximate maximum joint width in inches?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /						
V	N	NA	UNN	18-are there visible cracks in the joints? Is there evidence of block/tile or water leaking through joints?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /						
V	N	NA	UNN	19-is there additional damage to joints?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /						
V	N	NA	UNN	20-are the joints have a non-random horizontal spacing? Are some horizontal joints larger than others? (Photo 6)	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /						
V	N	NA	UNN	21-are the joints have a non-uniform vertical spacing? Are some vertical joints larger than others? (Photo 7)	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /						
V	N	NA	UNN	22-are the joints offset in the joints either in or out of the wall? If yes, record the approximate maximum offset.	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /						
V	N	NA	UNN	23-Does the fabric appear brittle, or appears it is like unaged concrete? If yes, record the approximate maximum age.	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /						
MSI WALL FACING											
Required Test: NYS Standard Test Specimen			Measurement/Excut of Problem/Section/Photo Numbers								
No.	No.	NA	UNN								
V	N	NA	UNN	12-are the joints "Tilted"? Is there excessive cracking in the joints?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /						
V	N	NA	UNN	13-are there visible cracks in the joints? Is there evidence of block/tile or water leaking through joints?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /						
V	N	NA	UNN	14-are there visible cracks in the joints? Is there evidence of block/tile or water leaking through joints?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /						
V	N	NA	UNN	15-are the joints offset in the joints either in or out of the wall? If yes, record the approximate maximum offset.	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /						
V	N	NA	UNN	16-are the joints offset in the joints either in or out of the wall? If yes, record the approximate maximum offset.	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /						
V	N	NA	UNN	17-is the facing concrete tapered or stepped from contact with an adjacent wall? If yes record the number of steps.	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /						
V	N	NA	UNN	18-is there cracking along the interface between facing and wall?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /						
V	N	NA	UNN	19-is there cracking along the interface between facing and wall?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /						
V	N	NA	UNN	20-is there cracking along the interface between facing and wall?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /						
V	N	NA	UNN	21-is there cracking along the interface between facing and wall?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /						
V	N	NA	UNN	22-is there cracking along the interface between facing and wall?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /						
V	N	NA	UNN	23-is there cracking along the interface between facing and wall?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /						
V	N	NA	UNN	24-is there cracking along the interface between facing and wall?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /						
V	N	NA	UNN	25-is there cracking along the interface between facing and wall?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /						
V	N	NA	UNN	26-is there cracking along the interface between facing and wall?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /						
V	N	NA	UNN	27-is there cracking along the interface between facing and wall?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /						
NYS TOP OF WALL OBSERVATIONS											
Required Test: NYS Standard Test Specimen			Measurement/Excut of Problem/Section/Photo Numbers								
No.	No.	NA	UNN								
V	N	NA	UNN	31-are there evidence of Settlement at the top of the wall? (poorly bonded, etc)	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /						
V	N	NA	UNN	32-are there signs of poor embedment in the concrete cap (i.e. bulging, etc)? If yes, record the approximate distance from the top of the wall to the bottom of the cap.	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /						
V	N	NA	UNN	33-is there any sign of construction joints in the connecting cap/slab? If yes, record the maximum joint width.	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /						
V	N	NA	UNN	34-there is a large gap between the top of the wall and the ground surface? If yes, record the approximate minimum gap size.	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /						

