

STATE OF UTAH MSE WALL INSPECTION FORM

Compiled As Part of Research By The Utah Department of Transportation

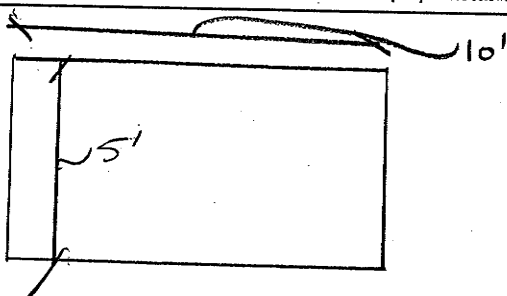
Instructions:

- 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	8/11/2009	Names Of Inspectors	RYAN MAW & HOWY
Region	2	Identifying Road/Intersection	10600 S. (SR-156) - I-15

MSE WALL CHARACTERISTICS

MSE Wall at Bridge	(Y) N	Bridge Number if applicable:	F-663	Wall Number	UNKNOWN
Surrounding Structures	NONE			Maximum Height of Wall (ft)	~20'
Distance to Each Structure	-			One Stage, Two Stage or Block Wall	TWO STAGE
State Route Number	I-15			Estimated Max Length of Wall Abutment:	160'
Approximate Mile Marker	293			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)	N 40° 33.497'		Please draw rough layout of panel with approximate dimensions in space provided below:		
	W 111° 53.855'				
If known, Panel or System Manufacturer	UNKNOWN				

Summary of Key Observations:

* ALL FOUR DRAINS WERE BLOCKED - DRAINAGE A MAJOR CONCERN

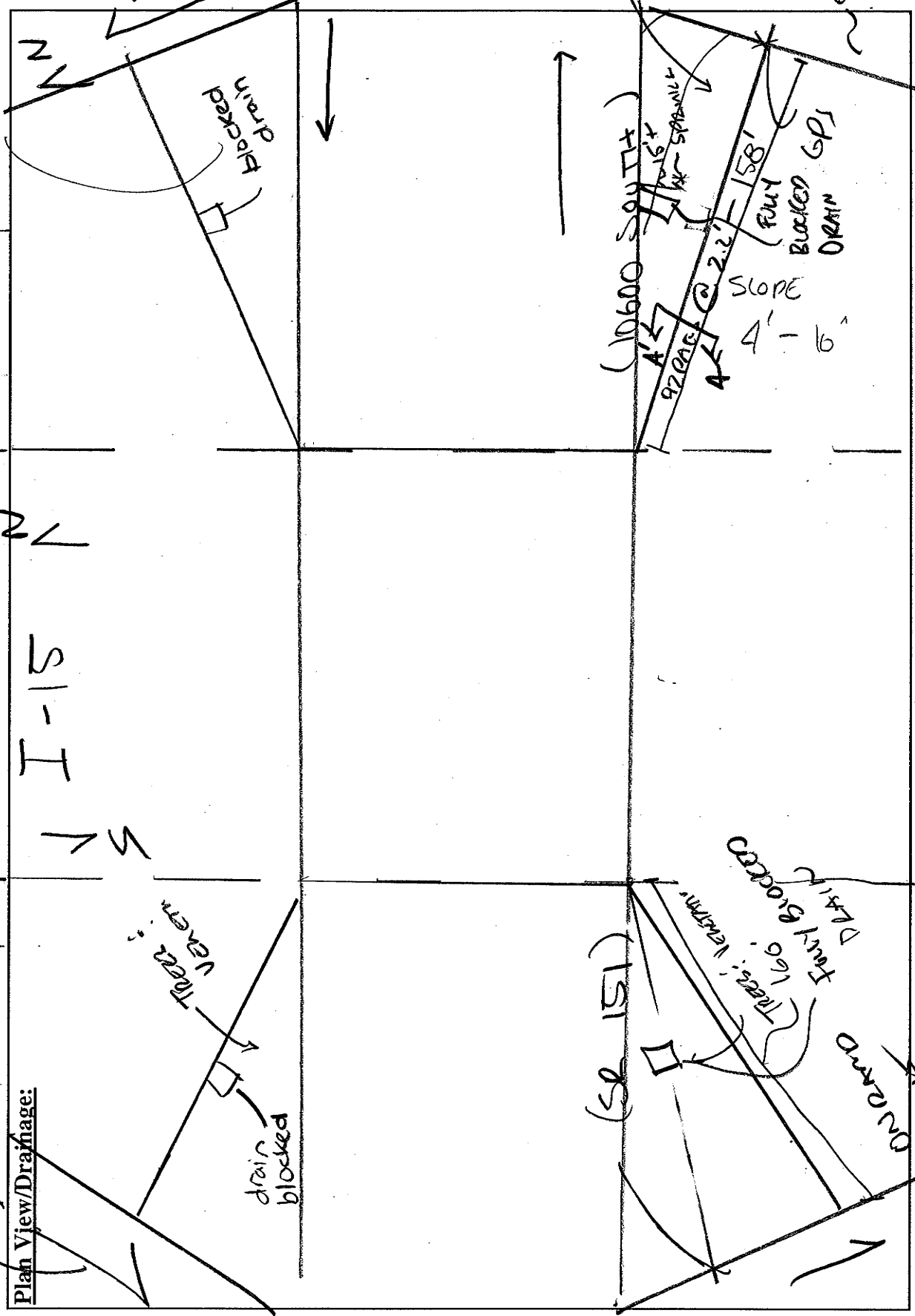
* LIMITED CRACK/POPPED CORNERS ON PANELS

10000
3 VENTURES

ON RAMP
I-15

10000
3 VENTURES

10000
3 VENTURES



Plan View/Drainage:

OFF RAMP
I-15

10000
3 VENTURES

drain
blocked

(SR 151)

10000
3 VENTURES

FULLY BLOCKED
DRAIN

ON RAMP
I-15

I-15

I-15

I-15

(10600 SOUTH)

92000

92000

SLOPE

4'-6"

FULLY
BLOCKED
DRAIN
GPS

N

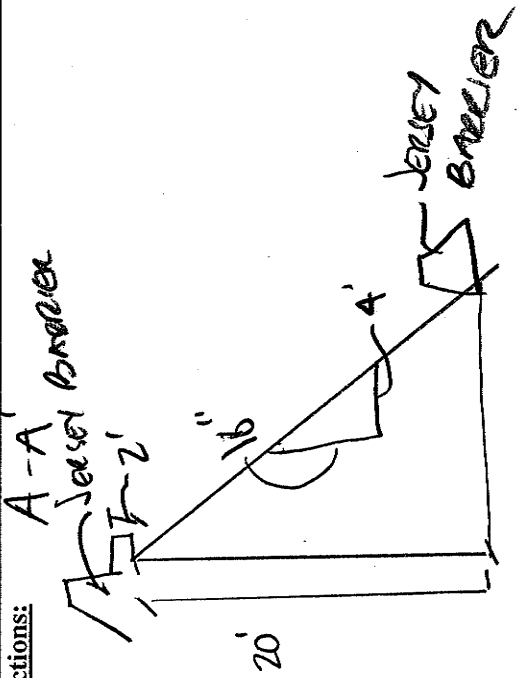
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Cross Sections:



Cross Sections:

MSE WALL DRAINAGE

Required Tools: Nylon Mallet, Water Bottle-GPS-Camera

Yes	No	N/A	UKN	Drainage	Measurement/Extent of Problem/Location/Photo Numbers
Y	N	N/A	UKN	1-Is there an active water source near the toe of the wall (is the wall near a body of water with scour potential)?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	2-If applicable, are the catch basins at the base of the wall blocked?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	3-Are there culverts protruding through the wall?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	4-Are there vertical drains that travel through the backfill?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	5-Is there erosion at the base of the wall or leveling pad? (Photo 12)	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	6-Is there erosion along the wing walls?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	7-Are there any signs of water flow along the base of the wall?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	8-Is there less than 14 feet between irrigation sprinklers and wall?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	9-Does the backfill or joint fabric appear to be saturated?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	10-Is there vegetation growing in panel joints (Photo 8)?	Blocked / 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	11-Are the deck drains and outlets at the top of the wall blocked? (Photo 14)	Partial / 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	12-Can water enter the wall between coping and slab (i.e., Drain appropriately)?	Clear / 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	13-Is there evidence at discharge point of fill washing through drain pipes?	2-both blocked / 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /

MSE WALL JOINTS

Required Tools: Long Level-String-Camera-GPS

Yes	No	N/A	UKN	Joints	Measurement/Extent of Problem/Location/Photo Numbers
Y	N	N/A	UKN	14-Is backfill coming out of joints or are there piles of backfill at the base of the wall? (Pictures 2 & 3)	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	15-Are the joints wide enough to see fabric or backfill behind panels when looking into joints? (Photo 5) If yes, record the approximate maximum joint width in inches.	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	16-Is exposed backfill visible in the horizontal joints? (Photo 4)	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	17-Are there visible tears in the fabric? Is there evidence of backfill or water leaking through tear? (Do not induce additional damage to fabric)	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	18-Do the joints have a non-uniform horizontal spacing/size? Are some horizontal joints larger/smaller than others? (Photo 6)	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	19-Do the joints have a non-uniform vertical spacing/size? Are some vertical joints larger/smaller than others? (Photo 6)	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	20-Are the panels offset at the joints either in or out of the wall? (Photo 7) If yes, record the approximate maximum offset.	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /
Y	N	N/A	UKN	21-Does the fabric appear brittle, or appear as if it has undergone excessive UV exposure?	/ 0-No 1% 5% 10% 25% 50% 75% 90% 95% 100% /

