

STATE OF UTAH MSE WALL INSPECTION FORM

Compiled As Part of Research By The Utah Department of Transportation

Instructions:

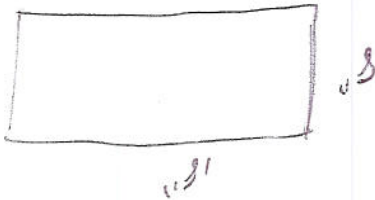
- 1-Fill out required sections for MSE Wall Inspector and Wall Characteristics.
- 2-Inspect the wall using the attached form. Questions that require a "Yes" answer should be documented by noting the extent of the problem in the right most column and photo documentation. Photo documentation should consist 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
	Identifying Road/Intersection	3

MSE WALL CHARACTERISTICS

MSE Wall at Bridge	(X) N	Bridge Number if applicable:	Wall Number	P-377 CD
Surrounding Structures			Maximum Height of Wall (ft)	6 ft
Distance to Each Structure			One Stage, Two Stage or Block Wall	one stage
State Route Number			Estimated Max Length of Wall Abutment:	250
Approximate Mtic Marker			Max Slope of Ground in front of wall:	2.5:1
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°21'07.8"N 111°46'40.6"W			
If known, Panel or System Manufacturer				

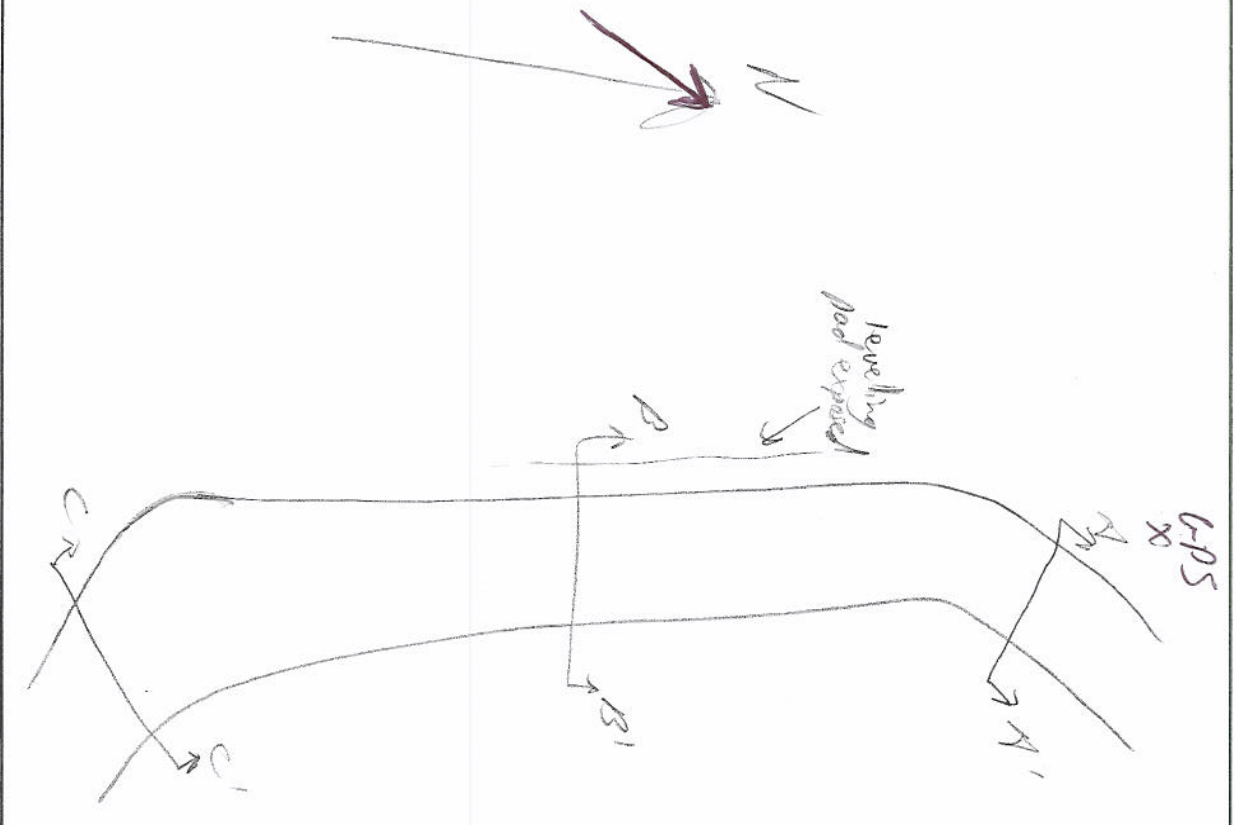
Please draw rough layout of panel with approximate dimensions in space provided below:



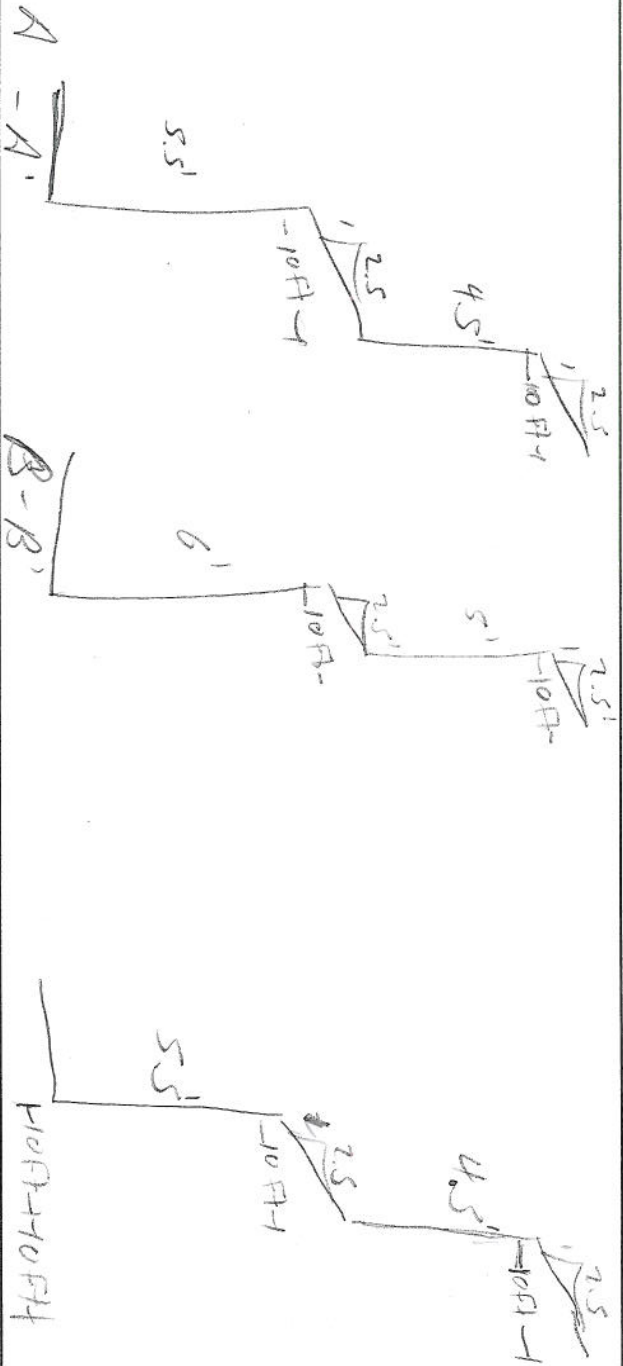
Summary of Key Observations:

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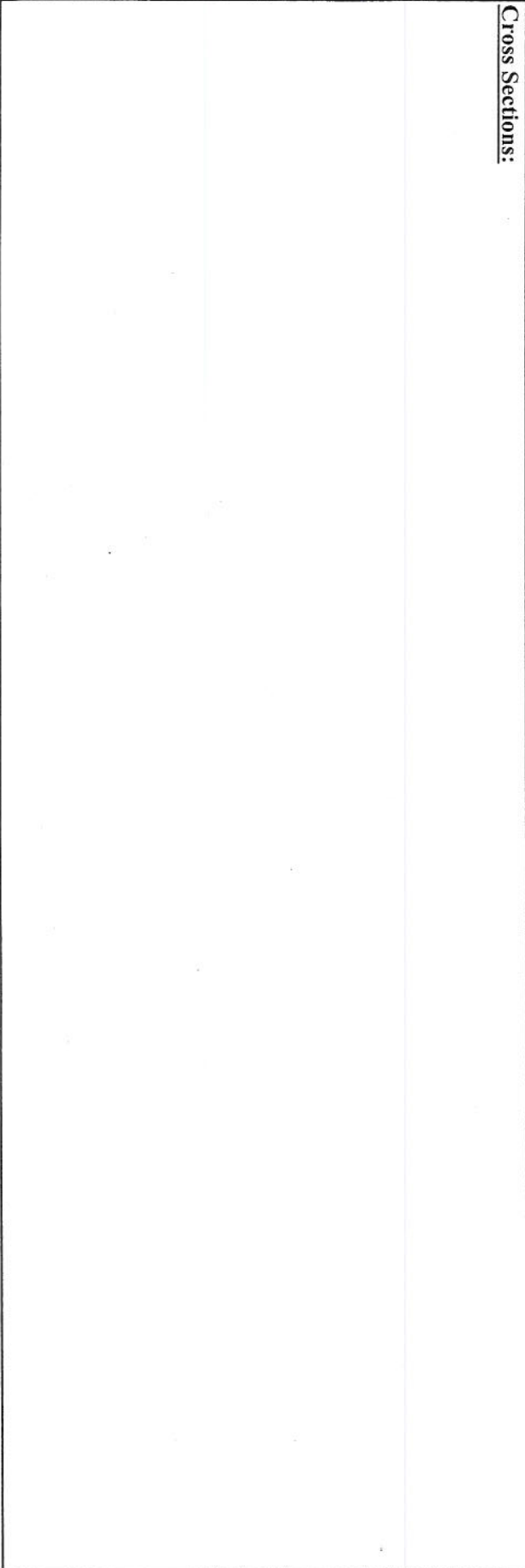
Plan View/Drainage:



Cross Sections:



Cross Sections:



Required Item:	Structural Integrity	34-1: Is there a large gap between the approach slab and the approach pavement? (Photo 13) Other data provided a bearing location as the approach is correct. Record the approximate maximum gap size.	Y	N	UNS	UNS	10%	25%	50%	75%	90%	95%	100%
Required Item:	Structural Integrity	35-1: What is the location depth of existing joint? Record the number of inches from wall to a maximum depth of 24 inches (24 inches is the minimum depth for MSE Wall)	Y	N	UNS	UNS	10%	25%	50%	75%	90%	95%	100%
Required Item:	Structural Integrity	36-1: Does existing joint exposure?	Y	N	UNS	UNS	10%	25%	50%	75%	90%	95%	100%
Required Item:	Structural Integrity	41-1: Does cracking in the leading panel? If so, record maximum crack size with eye.	Y	N	UNS	UNS	10%	25%	50%	75%	90%	95%	100%
Required Item:	Structural Integrity	42-1: Does a four foot bend (level slope) directly along the wall before the slope changes? (Record width of bend)	Y	N	UNS	UNS	10%	25%	50%	75%	90%	95%	100%
Required Item:	Structural Integrity	43-1: Does a slope steeper than V: 1.5 to H: 1 in front of the wall? Record slope and height of backfill above top of wall.	Y	N	UNS	UNS	10%	25%	50%	75%	90%	95%	100%
Required Item:	Structural Integrity	44-1: Does a slope greater than V: 1.5 to H: 1 below the wall? Record slope and height of backfill below the wall.	Y	N	UNS	UNS	10%	25%	50%	75%	90%	95%	100%
Required Item:	Structural Integrity	45-1: Does excessive degradation of panel face?	Y	N	UNS	UNS	10%	25%	50%	75%	90%	95%	100%

MSE STABILITY

Required Item:	Metal Corrosion	46-1: Are there excessive corrosion on panel or other exposed metal that might indicate corrosion elsewhere?	Y	N	UNS	UNS	10%	25%	50%	75%	90%	95%	100%
Required Item:	Metal Corrosion	47-1: Are there major rust stains on the face panels? Along joints? If so, record total number.	Y	N	UNS	UNS	10%	25%	50%	75%	90%	95%	100%
Required Item:	Metal Corrosion	48-1: Are any internal steel exposed? Does there appear to be corrosion on these areas? If applicable, please record the total number of areas affected.	Y	N	UNS	UNS	10%	25%	50%	75%	90%	95%	100%
Required Item:	Metal Corrosion	49-1: Is a regularly spaced steel reinforcement? If so, please indicate depth in inches.	Y	N	UNS	UNS	10%	25%	50%	75%	90%	95%	100%
Required Item:	Metal Corrosion	50-1: Does any indication of rebar corrosion (swelling, rust, exposed rebar inside epoxy coating)? If so, please record the total number of panels affected.	Y	N	UNS	UNS	10%	25%	50%	75%	90%	95%	100%

MSE METAL CORROSION

Required Item:	Impact/Collision	51-1: Are granular wall protrusions in place at the base of the wall for protection from potential traffic loads?	Y	N	UNS	UNS	10%	25%	50%	75%	90%	95%	100%
Required Item:	Impact/Collision	52-1: Does it appear that the wall has been involved in an accident (refined panel, recent damage to the wall)?	Y	N	UNS	UNS	10%	25%	50%	75%	90%	95%	100%
Required Item:	Impact/Collision	53-1: Does it appear the wall functionality and integrity has been compromised by a collision or accident?	Y	N	UNS	UNS	10%	25%	50%	75%	90%	95%	100%

MSE IMPACT/COLLISION PROTECTION

Required Item:	Design	54-1: Are there score wall angles (SOW)?	Y	N	UNS	UNS	10%	25%	50%	75%	90%	95%	100%
Required Item:	Design	Observations in Reinforcement Geometry	Y	N	UNS	UNS	10%	25%	50%	75%	90%	95%	100%

MSE AS BUILT DIFFERENT FROM DESIGN

Required Item:	Design/Construction	55-1: Are there available drawings for the wall? Please indicate type (Foundation and Layout, Design, As Built, etc.)	Y	N	UNS	UNS	10%	25%	50%	75%	90%	95%	100%
Required Item:	Design/Construction	56-1: Is the layout in general accordance with drawings?	Y	N	UNS	UNS	10%	25%	50%	75%	90%	95%	100%
Required Item:	Design/Construction	57-1: Are the panels CTR (Center in Face)? Does there appear to be excessive cracking in the panels?	Y	N	UNS	UNS	10%	25%	50%	75%	90%	95%	100%
Required Item:	Design/Construction	58-1: Was ODF (form used in the construction of the wall)?	Y	N	UNS	UNS	10%	25%	50%	75%	90%	95%	100%
Required Item:	Design/Construction	59-1: Are there any structures or near wall that were not included in initial drawings?	Y	N	UNS	UNS	10%	25%	50%	75%	90%	95%	100%
Required Item:	Design/Construction	60-1: Are there any irregularities, utilities, or obstructions that are not part of the initial drawings?	Y	N	UNS	UNS	10%	25%	50%	75%	90%	95%	100%
Required Item:	Design/Construction	61-1: Have there been any excavations or evidence of excavation near the wall?	Y	N	UNS	UNS	10%	25%	50%	75%	90%	95%	100%
Required Item:	Design/Construction	62-1: Have local property owners changed the dimensions of the wall? (Additional answers: Irregular, irregularities, etc.)	Y	N	UNS	UNS	10%	25%	50%	75%	90%	95%	100%
Required Item:	Design/Construction	63-1: Are there piles located in the wall (include drawings)?	Y	N	UNS	UNS	10%	25%	50%	75%	90%	95%	100%

MSE OBSTRUCTIONS IN REINFORCEMENT GEOMETRY

MSE AS BUILT DIFFERENT FROM DESIGN

Required Item:	Design/Construction	64-1: Are there any irregularities, utilities, or obstructions that are not part of the initial drawings?	Y	N	UNS	UNS	10%	25%	50%	75%	90%	95%	100%
Required Item:	Design/Construction	65-1: Have there been any excavations or evidence of excavation near the wall?	Y	N	UNS	UNS	10%	25%	50%	75%	90%	95%	100%
Required Item:	Design/Construction	66-1: Have local property owners changed the dimensions of the wall? (Additional answers: Irregular, irregularities, etc.)	Y	N	UNS	UNS	10%	25%	50%	75%	90%	95%	100%
Required Item:	Design/Construction	67-1: Are there piles located in the wall (include drawings)?	Y	N	UNS	UNS	10%	25%	50%	75%	90%	95%	100%