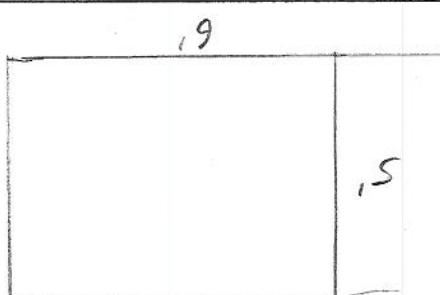
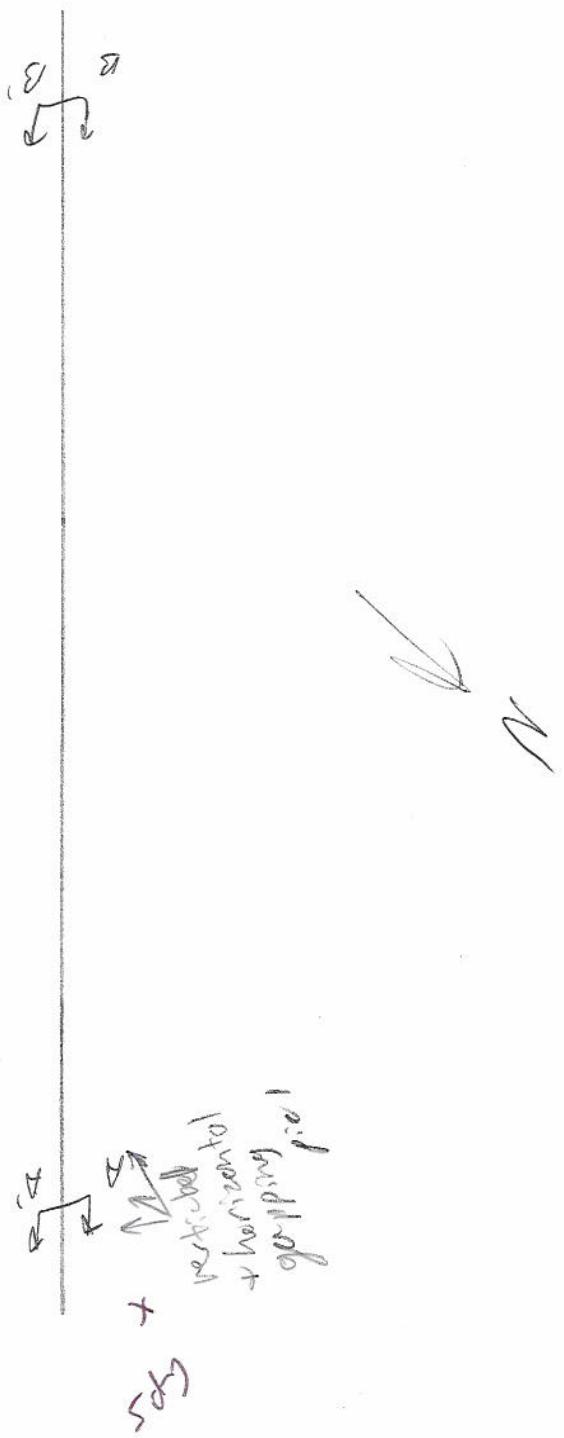


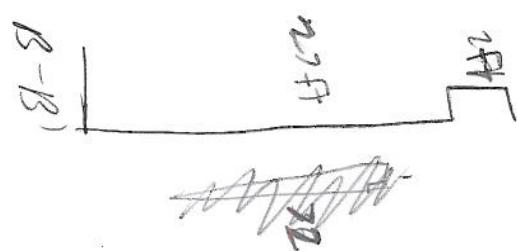
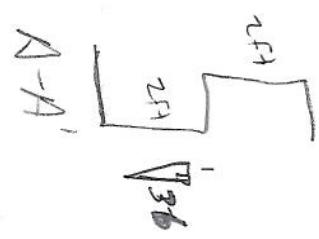
| STATE OF UTAH MSE WALL INSPECTION FORM | | | |
|--|--------------------------------|--|---------------------|
| Completed As Part of Research By The Utah Department of Transportation | | | |
| 1-Fill out required sections for MSE Wall Inspector and Wall Characteristics. | | | |
| Construction notes should be taken in the space provided for drawings. | | | |
| 3-School 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, 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. | | | |
| MSE WALL CHARACTERISTICS | | | |
| Region | 3 | Identifying Road/Intersection | Mouth 34 |
| MSE Wall at Bridge | (Y) N | Bridge Number if applicable: | Wall Number R-387-0 |
| Surrounding Structures | | Maximum Height of Wall (ft) | 29 ft |
| Distance to Each Structure | | One Stage, Two Stage or Block Wall | One Stage |
| Bridge Route Number | | Estimated Max Length of Wall Abutments | 45 ft |
| Approximate Miles Marker | WGS/84, NAD/83, or NAD/27 | Max Slope of Ground in front of wall | 0 |
| MSE Wall GPS Coordinates (Location of MSE Wall) | 40°41'53.60" N 111°35'49.87" W | Max Height of wall above surrounding level ground: | 4 ft |
| Please draw rough layout of part with approximate dimensions in space provided below. | | | |
|  6 5 | | | |
| Scribbled notes over the copy (2-3-17) | | | |
| Summary of Key Observations: | | | |

450
305
3

Plan View/Drainage:



Cross Sections:



Cross Sections:

NISE WALL DRAINAGE

Required Test: Nise Wall Drainage Survey

| Yes | No | N/A | UNK | Drainage | Measurement/Extent of Problem Locations/Point Numbers |
|-------------------------------------|-------------------------------------|--------------------------|--|--|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | UNK (Preliminary) | 1-Is there an active water source near the toe of the wall (in the well near a body of water with water) | / 0-50 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | UNK 2-If applicable, are the cracks visible at the base of the wall blocked? | | / 0-50 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | UNK 3-Are there subsurface groundings through the wall? | | / 0-50 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | UNK 4-Is there vertical drain (drain tile) installed through the backfill? | | / 0-50 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | UNK 5-A few inches at the base of the wall or retaining wall? (Photo 12) | | / 0-50 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | UNK 6-is there erosion along the side of the wall? | | / 0-50 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | UNK 7-Are there any signs of water flow along the base of the wall? | | / 0-50 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | UNK 8-is there less than 14 feet between irrigation sprinklers and wall? | | / 0-50 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | UNK 9-Does the backfill or joint fabric appear to be saturated? | | / 0-50 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | UNK 10-Is there vegetation growing in plan joints? (Photo 13) | | / 0-50 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | N/A 11-Are the deck drains not outlet at the top of the wall blocked? (Photo 14) | | / 0-50 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | N/A 12-Does water enter the walls between coping and slab? (Detailed approach)? | | / 0-50 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | N/A 13-Is there evidence of slippage points or fill working through drain pipe? | | / 0-50 1% 5% 10% 25% 50% 75% 90% 95% 100% / |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | N/A 14-Does the backfill behind, or adjacent to it, have undergone excessive UV exposure? | | / 0-50 1% 5% 10% 25% 50% 75% 90% 95% 100% / |

Required Test: Long Lasting Coatings

| Joint | 1-Is the coating missing or peeling off? |
|--------|---|
| Bottom | 1-Is the bottom joint free from water infiltration? |
| Top | 1-Is the joint free from water infiltration? |
| Side | 1-Is the joint free from water infiltration? |
| Bottom | 2-Does the joint have horizontal cracks? |
| Top | 2-Does the joint have horizontal cracks? |
| Side | 2-Does the joint have horizontal cracks? |
| Bottom | 3-Does the joint have vertical cracks? |
| Top | 3-Does the joint have vertical cracks? |
| Side | 3-Does the joint have vertical cracks? |
| Bottom | 4-Does the joint have horizontal cracks? |
| Top | 4-Does the joint have horizontal cracks? |
| Side | 4-Does the joint have horizontal cracks? |

Joint

1-Is the coating missing or peeling off?

| Bottom | Top | Side | Measurement/Extent of Problem Locations/Point Numbers |
|---|---|------|---|
| / 0-50 1% 5% 10% 25% 50% 75% 90% 95% 100% / | / 0-50 1% 5% 10% 25% 50% 75% 90% 95% 100% / | | |
| / 0-50 1% 5% 10% 25% 50% 75% 90% 95% 100% / | / 0-50 1% 5% 10% 25% 50% 75% 90% 95% 100% / | | |
| / 0-50 1% 5% 10% 25% 50% 75% 90% 95% 100% / | / 0-50 1% 5% 10% 25% 50% 75% 90% 95% 100% / | | |
| / 0-50 1% 5% 10% 25% 50% 75% 90% 95% 100% / | / 0-50 1% 5% 10% 25% 50% 75% 90% 95% 100% / | | |
| / 0-50 1% 5% 10% 25% 50% 75% 90% 95% 100% / | / 0-50 1% 5% 10% 25% 50% 75% 90% 95% 100% / | | |
| / 0-50 1% 5% 10% 25% 50% 75% 90% 95% 100% / | / 0-50 1% 5% 10% 25% 50% 75% 90% 95% 100% / | | |
| / 0-50 1% 5% 10% 25% 50% 75% 90% 95% 100% / | / 0-50 1% 5% 10% 25% 50% 75% 90% 95% 100% / | | |
| / 0-50 1% 5% 10% 25% 50% 75% 90% 95% 100% / | / 0-50 1% 5% 10% 25% 50% 75% 90% 95% 100% / | | |
| / 0-50 1% 5% 10% 25% 50% 75% 90% 95% 100% / | / 0-50 1% 5% 10% 25% 50% 75% 90% 95% 100% / | | |

Bottom

Top

Side

Measurement/Extent of Problem Locations/Point Numbers

1-Is the coating missing or peeling off?

| Required Test: Long Lasting Coatings | Top Of Wall | Bottom Of Wall |
|--------------------------------------|--------------------------|--|
| Yes | No | N/A |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | UNK 1-Is there evidence of settlement at the top of the wall? (present cracking, etc.) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | UNK 2-Are there any open cracks in the concrete (concrete cracks) (not hairline)? If yes record by approximate minimum crack width. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | UNK 3-Are the concrete joints in the concrete coping opened up? (Photo 5). If yes record the maximum joint width. |

| Required Test: Surface CHECK-UP | | | |
|---|-----|-----|-----|
| Y | N | N/A | USN |
| Y | N | N/A | USN |
| Y | N | N/A | USN |
| Y | N | N/A | USN |
| In wall: | | | |
| 5a. Is there a high spot between the approach slab and the approach pavement? (Please list OSHA data products being removed at the trench or excavation site.) Record the approximate maximum gap size. | | | |
| 5b. Are the dimensions true, the joint between the wall coping and the structure opened or significantly? If so, record minimum distance. | | | |
| 5c. Is the coping wall pulling away from the structure due to settlement? Please record maximum displacement. | | | |
| NISE: SIGHTABILITY | | | |
| Measurement/Extent of Problem/Lack of Sight Numbers | | | |
| Y | No | N/A | USN |
| Y | N | N/A | USN |
| Y | (S) | N/A | USN |
| Y | N | N/A | (S) |
| 4b. Is there cracking in the coping path? If so, record maximum crack size in gauge. | | | |
| 4c. Is there a foot fault trench (level drop) directly along the wall before the slope changes? Record width. | | | |
| 4d. Is there a step deeper than 1' to 1' in front of the wall? Please record depth and height of backfill. | | | |
| 4e. Is there a step greater than 1' to 1' below the wall? Please record step height of backfill. | | | |
| 4f. Is there evidence of degradation of painted face? | | | |
| Required Test: NISE METAL CORROSION | | | |
| Measurement/Extent of Problem/Lack of Sight Numbers | | | |
| Y | No | N/A | USN |
| Y | S | N/A | USN |
| 5a. Is there evidence corrosion on ground or other exposed metal that might indicate corrosive conditions? | | | |
| 5b. Is there major rust stains on the face panel of steel jacket or exposed total surface. | | | |
| 5c. Are any internal straps exposed? Does appear to be corrosion on these straps? If applicable please record the total number of straps affected. | | | |
| 5d. Was a readily available coating applied to exposed metal? If yes, please indicate depth in inches. | | | |
| 5e. Was any form of cathodic protection applied to the wall? Was exposed metal treated epoxy coated? If so, please record the total number of panels treated. | | | |
| NISE IMPACT/COLLISION PROTECTION | | | |
| Measurement/Extent of Problem/Lack of Sight Numbers | | | |
| Y | No | N/A | USN |
| Y | S | N/A | USN |
| 5f. Are groundings in place at the base of the wall (or project 1) from potential strike. | | | |
| 5g. Does anyone report that the wall has been involved in an accident (replaced panel, recent hit by the wall)? | | | |
| 5h. Does anyone report that the wall functionality and integrity has been compromised by an collision or accident? | | | |
| NISE OBSTRUCTIONS IN REINFORCEMENT GROUTING | | | |
| Measurement/Extent of Problem/Lack of Sight Numbers | | | |
| Y | No | N/A | USN |
| Y | S | N/A | USN |
| 5i. Are there any wall rebar? (Note) | | | |
| 5j. Are there any wall rebar? (Note) | | | |
| NISE AS BUILT DIFFERENT FROM DESIGN | | | |
| Measurement/Extent of Problem/Lack of Sight Numbers | | | |
| Y | No | USN | USN |
| Y | S | N/A | USN |
| 5k. Are there visible drawings for the wall? Please indicate type (Hand-drawn & Layout, Design, As-Built, etc.) | | | |
| 5l. Is the layout in general accordance with drawing? | | | |
| 5m. Are the project CTP (Crew in Place) Drawings shown to be accurate in cracking in the pencil? | | | |
| 5n. Is the NSEwG/CTP drawn used in the construction of the wall? | | | |
| 5o. Are any structures on or near wall were not included in initial drawing? | | | |
| 5p. Are there any mitigation, offset, or diversion that are not part of the initial drawing? | | | |
| 5q. Have there been any excavations or evidence of excavation near the wall? | | | |
| 5r. Have local property owners changed the dynamics of the wall (Additional structures, irrigation, vegetation, etc.) | | | |
| 5s. Are there piles located in the wall (drilling, abutments)? | | | |