

STATE OF NEVADA

DEPARTMENT OF TRANSPORTATION

MATERIALS DIVISION

GEOTECHNICAL SECTION

LINE SAMPLING

**SR 28, Washoe County, from 0.242 Miles North of  
East Lakeshore Boulevard, Incline Village, to  
NV/CA Stateline**

**Mile Post WA 5.217 to WA 10.990**

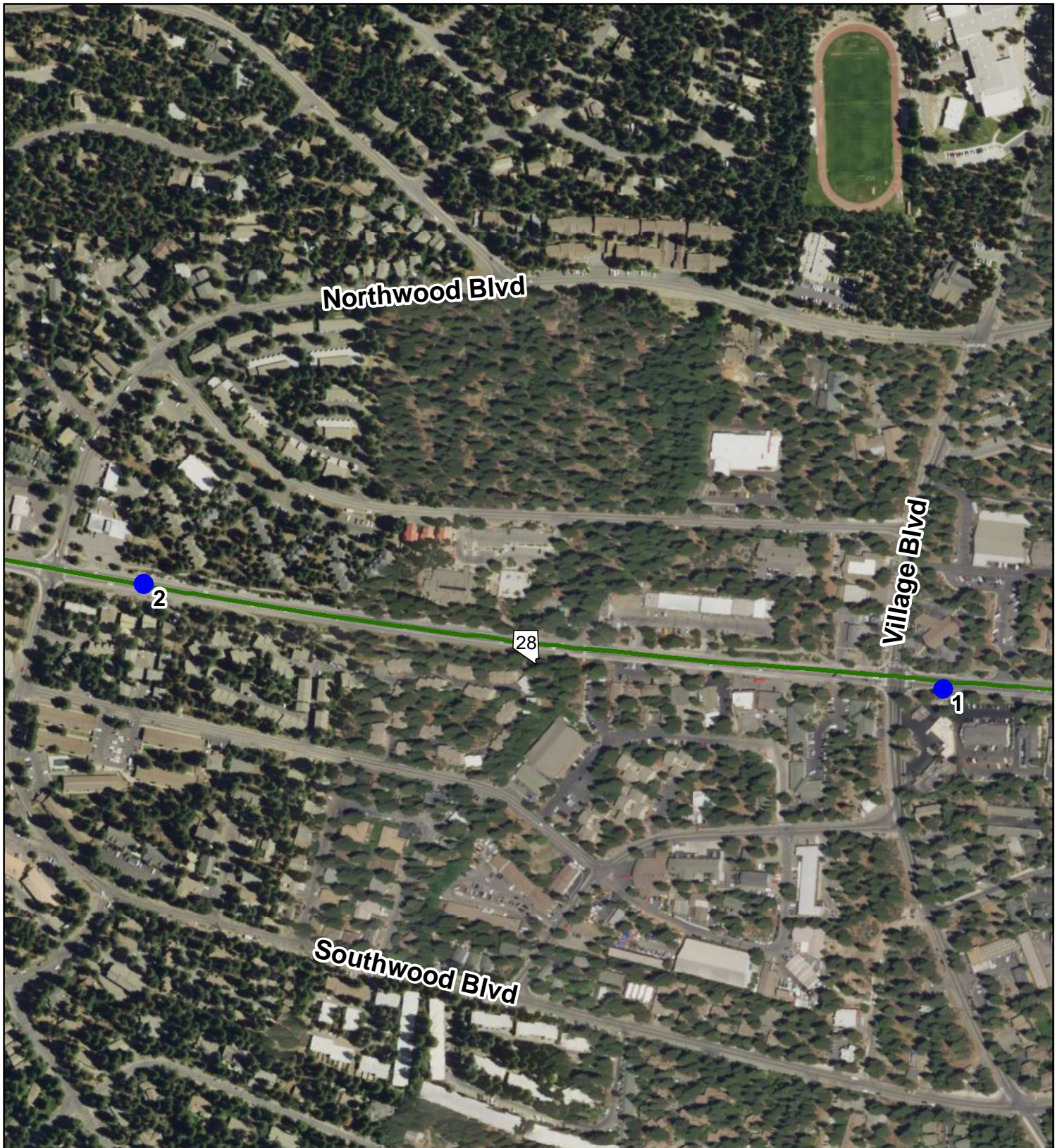
WASHOE COUNTY, NEVADA

EA 74079

December 2017

This report presents laboratory test results consisting of gradation, liquid limit, plasticity index, and R-value data only. No interpretations of the data are presented. The tests were performed on samples collected at the locations and depths indicated on the individual data sheets. Each boring was advanced with a 6-inch solid-stem auger. Samples were collected from cuttings brought to the surface on auger flights while advancing borings the corresponding depth intervals. Tests were performed in accordance with Nevada standard test procedures. Individual samples might not be representative of the depth intervals indicated:

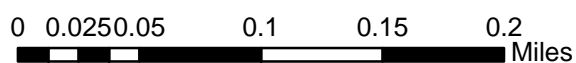
- Each sample is a mixture of strata encountered within the depth penetrated and is not necessarily representative of an individual stratum.
- Oversized material might not be brought to the surface and included in the sample.
- Deeper samples inevitably contain some material from the sides of the borehole above the sample interval.
- Drilling action might break individual particles into smaller pieces.



**SR28 from 0.242 miles North of East Lakeshore  
Boulevard to the NV/CA Stateline.  
WA 5.22 to WA 10.99**

**Legend**

● Sample Number



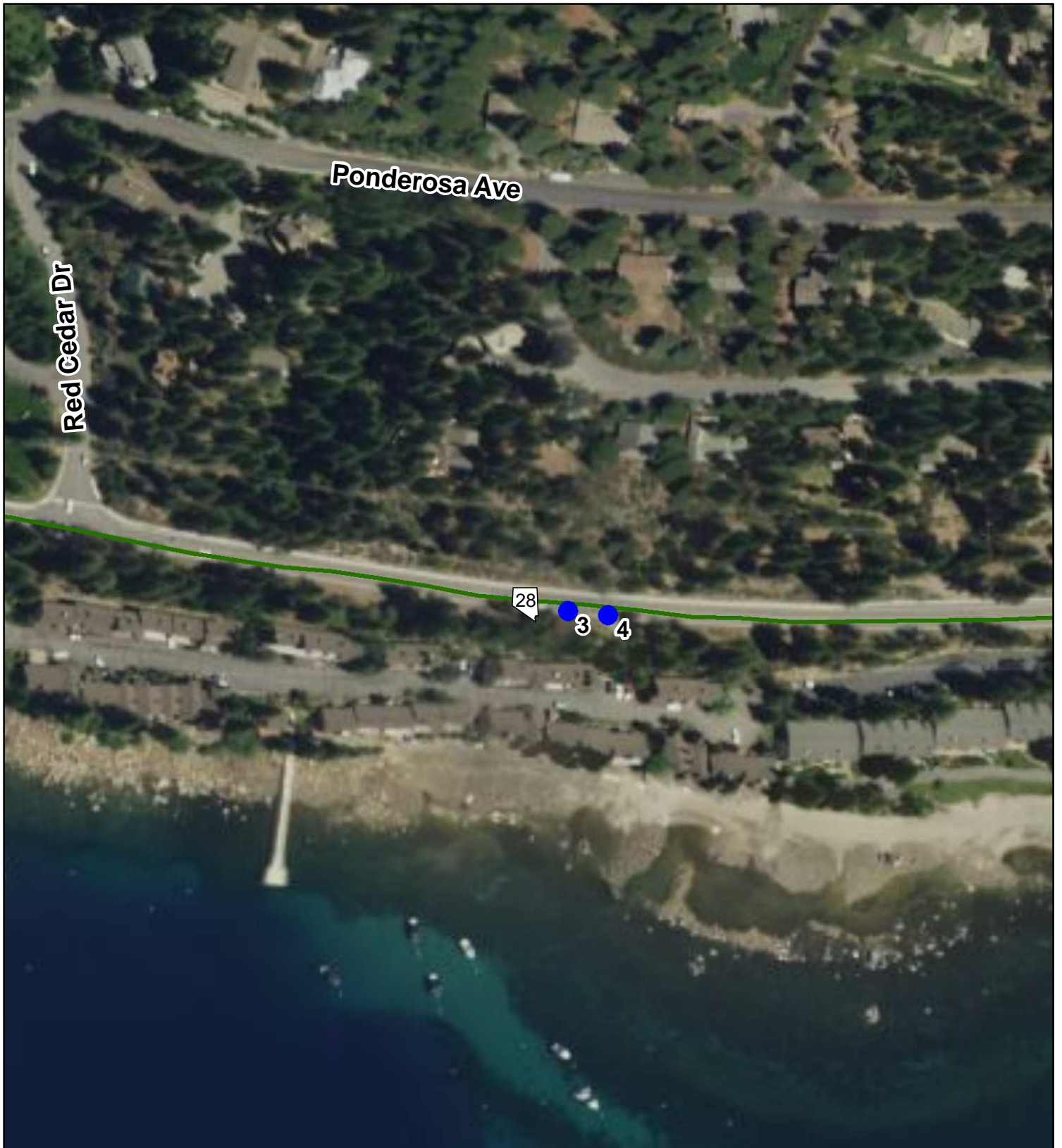
Brian Sandoval  
Governor



Rudy Malfabon, P.E.  
Director

Nevada Department of Transportation  
1263 South Stewart Street  
Carson City, Nevada 89712  
(775) 888-7000

THIS MAP IS FOR DISPLAY PURPOSES ONLY.  
MAP COMPILED FROM BEST AVAILABLE DATA SOURCES.  
NOT ALL FEATURES PORTRAYED DUE TO SCALE.

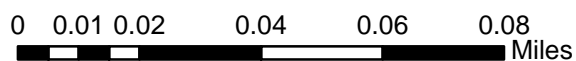


**SR28 from 0.242 miles North of East Lakeshore  
Boulevard to the NV/CA Stateline.  
WA 5.22 to WA 10.99**

**Legend**



Sample Number



Brian Sandoval  
Governor



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# LINE SAMPLING DATA

Date Reported: 9/12/17  
 Lab No.: S17-01, RV-125-17  
 E.A.: 74079 Job Description: SR 28 WA 5.217 to SR WA 10.990.  
 Date Rec'd: 8/31/17  
 Samplers: ALTAMIRANO, Station WA MP 6.97 SB Route SR 28  
RIGSBY, PRADA, DRAGOO, NEUSEL Location from CL (ft) Lt. 15' 3" Rt. \_\_\_\_\_  
 Sample No.: 1 County: WASHOE

Sample Type: \_\_\_\_\_  
 RV  Sub  Chem  DC  Other   
 Vegetation: None  Trees  Shrubs   
 Brushy  Grassy   
 Cut Section  Fill Section   
 Taken Through Oil  Taken on Shoulder   
 Gravel Depth (in) 8" Oil Depth (in) 4"  
 Remarks: OIL: 4" Drilled on Shoulder  
BASE: 8"  
RV: 1' - 5' head down pressure used  
 Submitted By: ORLANDO ALTAMIRANO  
 Title: Engineering Technician III

Depth (ft)	Boring Description	PSI
0--		0
	Oil	300
1--		1--
2--		2--
3--	Auger Cuttings	3--
4--		4--
5--		5--

Sieve Size	% Passing
3"	
2"	
1.5"	<b>100</b>
1"	<b>98</b>
3/4"	<b>98</b>
1/2"	<b>93</b>
3/8"	<b>92</b>
No. 4	<b>84</b>
No. 10	<b>73</b>
No. 16	<b>63</b>
No. 40	<b>44</b>
No. 50	<b>38</b>
No. 100	<b>27</b>
No. 200	<b>20</b>

Liquid Limit 21  
 Plastic Index 5  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 68  
 Cover Stabilometer \_\_\_\_\_  
 Thickness \_\_\_\_\_ Expansion Pressure \_\_\_\_\_  
 Sand Equivalent \_\_\_\_\_  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity \_\_\_\_\_  
 pH Factor \_\_\_\_\_  
 AASHTO Classification A-1-b

Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

# LINE SAMPLING DATA

Date Reported: 9/12/17  
 Lab No.: S17-01, RV-126-17  
 E.A.: 74079 Job Description: SR 28 WA 5.217 to SR WA 10.990.  
 Date Rec'd: 8/31/17  
 Samplers: ALTAMIRANO, Station WA MP 7.45 NB Route SR 28  
RIGSBY, PRADA, DRAGOO, NEUSEL Location from CL (ft) Lt. \_\_\_\_\_ Rt. 5'  
 Sample No.: 2 County: WASHOE

Sample Type: \_\_\_\_\_  
 RV  Sub  Chem  DC  Other   
 Vegetation: None  Trees  Shrubs   
 Brushy  Grassy   
 Cut Section  Fill Section   
 Taken Through Oil  Taken on Shoulder   
 Gravel Depth (in) 0" Oil Depth (in) 9"  
 Remarks: OIL: 9" Drilled in Median  
BASE: 0"  
RV: 9" - 5' head down pressure used  
 Submitted By: ORLANDO ALTAMIRANO  
 Title: Engineering Technician III

Depth (ft)	Boring Description	PSI
0--		0
	Oil	300
1--		1--
2--		2--
3--	Auger Cuttings	3--
4--		4--
5--		5--

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	
3/4"	
1/2"	<b>100</b>
3/8"	<b>99</b>
No. 4	<b>96</b>
No. 10	<b>88</b>
No. 16	<b>75</b>
No. 40	<b>54</b>
No. 50	<b>47</b>
No. 100	<b>36</b>
No. 200	<b>29</b>

Liquid Limit 27  
 Plastic Index 12  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 57  
 Cover Stabilometer \_\_\_\_\_  
 Thickness \_\_\_\_\_ Expansion Pressure \_\_\_\_\_  
 Sand Equivalent \_\_\_\_\_  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity \_\_\_\_\_  
 pH Factor \_\_\_\_\_  
 AASHTO Classification A-2-6(0)

Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

# LINE SAMPLING DATA

Date Reported: 9/12/17  
 Lab No.: S17-01, RV-127-17  
 E.A.: 74079 Job Description: SR 28 WA 5.217 to SR WA 10.990.  
 Date Rec'd: 8/31/17  
 Samplers: ALTAMIRANO, Station WA MP 8.85 SBLN Route SR 28  
RIGSBY, PRADA, DRAGOO, NEUSEL Location from CL (ft) Lt. 8 Rt. \_\_\_\_\_  
 Sample No.: 3 County: WASHOE

Sample Type: RV  Sub  Chem  DC  Other   
 Vegetation: None  Trees  Shrubs   
 Brushy  Grassy   
 Cut Section  Fill Section   
 Taken Through Oil  Taken on Shoulder   
 Gravel Depth (in) 2" Oil Depth (in) 8"  
 Remarks: OIL: 8"  
BASE: 2" Black in color, possibly native material  
RV: 10" - 5' head down pressure used  
 Submitted By: ORLANDO ALTAMIRANO  
 Title: Engineering Technician III

Depth (ft)	Boring Description	PSI
0--		300
1--	Oil	
2--		
3--	Auger Cuttings	
4--		
5--		

Sieve Size	% Passing
3"	
2"	
1.5"	<b>100</b>
1"	<b>95</b>
3/4"	<b>95</b>
1/2"	<b>93</b>
3/8"	<b>92</b>
No. 4	<b>88</b>
No. 10	<b>83</b>
No. 16	<b>78</b>
No. 40	<b>63</b>
No. 50	<b>56</b>
No. 100	<b>42</b>
No. 200	<b>36</b>

Liquid Limit 27  
 Plastic Index 11  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 49  
 Cover Stabilometer \_\_\_\_\_  
 Thickness \_\_\_\_\_ Expansion Pressure \_\_\_\_\_  
 Sand Equivalent \_\_\_\_\_  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity \_\_\_\_\_  
 pH Factor \_\_\_\_\_  
 AASHTO Classification A-6(0)

Remarks: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# LINE SAMPLING DATA

Date Reported: 9/12/17  
 Lab No.: S17-01, RV-128-17  
 E.A.: 74079 Job Description: SR 28 WA 5.217 to SR WA 10.990.  
 Date Rec'd: 8/31/17  
 Samplers: ALTAMIRANO, Station WA MP 8.855 SBLN Route SR 28  
RIGSBY, PRADA, DRAGOO, NEUSEL Location from CL (ft) Lt. 7' 8" Rt. \_\_\_\_\_  
 Sample No.: 4 County: WASHOE

Sample Type: \_\_\_\_\_  
 RV  Sub  Chem  DC  Other   
 Vegetation: None  Trees  Shrubs   
 Brushy  Grassy   
 Cut Section  Fill Section   
 Taken Through Oil  Taken on Shoulder   
 Gravel Depth (in) 4" Oil Depth (in) 8"  
 Remarks: OIL: 8"  
BASE: 4" Possibly native material black in color soil  
RV: 1' - 5' head down pressure used  
 Submitted By: ORLANDO ALTAMIRANO  
 Title: Engineering Technician III

Depth (ft)	Boring Description	PSI
0--		0
	Oil	300
1--		1--
2--		2--
3--	Auger Cuttings	3--
4--		4--
5--		5--

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	
3/4"	
1/2"	<b>100</b>
3/8"	<b>99</b>
No. 4	<b>97</b>
No. 10	<b>92</b>
No. 16	<b>86</b>
No. 40	<b>70</b>
No. 50	<b>63</b>
No. 100	<b>50</b>
No. 200	<b>42</b>

Liquid Limit 31  
 Plastic Index 15  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 28  
 Cover Stabilometer \_\_\_\_\_  
 Thickness \_\_\_\_\_ Expansion Pressure \_\_\_\_\_  
 Sand Equivalent \_\_\_\_\_  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity \_\_\_\_\_  
 pH Factor \_\_\_\_\_  
 AASHTO Classification A-6(2)

Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_