

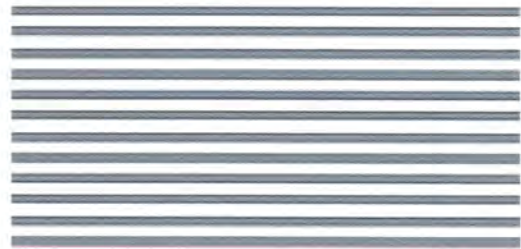
# **SR 160**

**DURANGO DRIVE TO RED ROCK CANYON ROAD**

**CLARK COUNTY, NEVADA**

## **SOIL TESTING SUMMARY**

**JULY 2008**



**This compilation has been prepared for information purposes, SR 160, from Durango Drive to Red Rock Canyon Road (SR 159), CL 6.40 to 11.10.**

**This compilation includes properties of the materials (R-Values, Gradations, Plasticity Indices). Very hard to excavate caliche layers and very strong cemented soil layers have been found within these mileposts limit.**

**This compilation is not intended to be an all-inclusive source of information regarding this project.**

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-329-07, C-400-07  
 No.: 73326 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White Station: "P" 166+25 Route: SR 160  
 Location from C/L (ft): \_\_\_\_\_ Lt. \_\_\_\_\_ Rt. 32  
 Sample No.: 1 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: CALICHE AT 2 FEET, STOPPED AT 4 FEET,  
COULD NOT PENETRATE  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--		100
2--	Silt, Sand, Gravel	2--
4--		4--
6--		6--
8--		8--
10--		10--
12--		12--
14--		14--
16--		16--
18--		18--
20--		20--

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	<b>100</b>
3/4"	<b>97</b>
1/2"	<b>85</b>
3/8"	<b>81</b>
No. 4	<b>64</b>
No. 10	<b>49</b>
No. 16	<b>43</b>
No. 40	<b>34</b>
No. 50	<b>30</b>
No. 100	<b>25</b>
No. 200	<b>18</b>

Liquid Limit 20  
 Plastic Index 2  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 78  
 Cover Stabilometer Expansion Pressure  
 Thickness 4.3  
 Sand Equivalent 22  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 1,642  
 pH Factor 8.2  
 HRB Classification \_\_\_\_\_

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

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-387-07, C-458-07  
 ID: 73326 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White Station: "P" 170+00 Route: SR 160  
 Location from C/L (ft) Lt. 35 Rt. \_\_\_\_\_  
 Sample No.: 50 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: HIT COBBLES FROM 0 TO 1 FOOT.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--	Silt, Sand, Gravel	100
2--		
4--		
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	<b>100</b>
1"	<b>91</b>
3/4"	<b>83</b>
1/2"	<b>74</b>
3/8"	<b>60</b>
No. 4	<b>34</b>
No. 10	<b>21</b>
No. 16	<b>17</b>
No. 40	<b>13</b>
No. 50	<b>11</b>
No. 100	<b>10</b>
No. 200	<b>6</b>

Liquid Limit 25  
 Plastic Index 4  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 82  
 Cover Stabilometer Expansion Pressure  
 Thickness 2.9  
 Sand Equivalent 23  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 2,288  
 pH Factor 8.3  
 HRB Classification \_\_\_\_\_

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

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-330-07, C-401-07  
 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White Station: "P" 175+00 Route: SR 160  
 Location from C/L (ft): \_\_\_\_\_ Lt. \_\_\_\_\_ Rt. 35  
 County: CLARK  
 Sample No.: 2

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: EASY DRILLING, CEMENTED LAYER FROM  
3 1/2 FEET TO 4 FEET.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--	Silt, Sand, Gravel	100
2--		
4--		
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	<b>100</b>
1"	<b>99</b>
3/4"	<b>86</b>
1/2"	<b>76</b>
3/8"	<b>65</b>
No. 4	<b>50</b>
No. 10	<b>39</b>
No. 16	<b>35</b>
No. 40	<b>29</b>
No. 50	<b>28</b>
No. 100	<b>24</b>
No. 200	<b>15</b>

Liquid Limit 21  
 Plastic Index 2  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 80  
 Cover Stabilometer Expansion Pressure  
 Thickness 3.6  
 Sand Equivalent 18  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 1,842  
 pH Factor 8.3  
 HRB Classification \_\_\_\_\_

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

\_\_\_\_\_

\_\_\_\_\_

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# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-386-07, C-457-07  
 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White Station: "P" 180+00 Route: SR 160  
 Location from C/L (ft): Lt. 37 Rt. \_\_\_\_\_  
 Sample No.: 49 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: \_\_\_\_\_  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--	Silt, Sand, Gravel	0-- 100
2--		2--
4--		4--
6--		6--
8--		8--
10--		10--
12--		12--
14--		14--
16--		16--
18--		18--
20--		20--

Sieve Size	% Passing
3"	
2"	
1.5"	<b>100</b>
1"	<b>94</b>
3/4"	<b>94</b>
1/2"	<b>73</b>
3/8"	<b>66</b>
No. 4	<b>42</b>
No. 10	<b>28</b>
No. 16	<b>24</b>
No. 40	<b>18</b>
No. 50	<b>17</b>
No. 100	<b>14</b>
No. 200	<b>9</b>

Liquid Limit 21  
 Plastic Index NP  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 82  
 Cover Stabilometer Expansion Pressure  
 Thickness 2.9  
 Sand Equivalent 24  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 1,431  
 pH Factor 8.3  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-331-07, C-402-07  
 No.: 73326 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White Station: "P" 185+00 Route: SR 160  
 Location from C/L (ft) Lt. \_\_\_\_\_ Rt. 35  
 Sample No.: 3 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: EASY DRILLING FROM 0 TO 5 FEET.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--	Silt, Sand, Gravel	100
2--		
4--		
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	<b>100</b>
3/4"	<b>91</b>
1/2"	<b>67</b>
3/8"	<b>59</b>
No. 4	<b>39</b>
No. 10	<b>29</b>
No. 16	<b>27</b>
No. 40	<b>23</b>
No. 50	<b>22</b>
No. 100	<b>19</b>
No. 200	<b>13</b>

Liquid Limit 23  
 Plastic Index 7  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 76  
 Cover Stabilometer Expansion Pressure  
 Thickness 5.0  
 Sand Equivalent 13  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 189  
 pH Factor 7.8  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-385-07, C-456-07  
 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Station: "P" 190+00 Route: SR 160  
 Samplers: Ford, White Location from C/L (ft): Lt. 35 Rt. \_\_\_\_\_  
 Sample No.: 48 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: HIT NATIVE GROUND AT 4 FEET.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--		100
2--	Fill	2--
4--		4--
6--	Silt, Sand, Gravel	6--
8--		8--
10--		10--
12--		12--
14--		14--
16--		16--
18--		18--
20--		20--

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	<b>100</b>
3/4"	<b>95</b>
1/2"	<b>71</b>
3/8"	<b>58</b>
No. 4	<b>36</b>
No. 10	<b>25</b>
No. 16	<b>22</b>
No. 40	<b>18</b>
No. 50	<b>17</b>
No. 100	<b>15</b>
No. 200	<b>9</b>

Liquid Limit 19  
 Plastic Index NP  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 83  
 Cover Stabilometer Expansion Pressure \_\_\_\_\_  
 Thickness 2.5  
 Sand Equivalent 21  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 5,420  
 pH Factor 8.4  
 HRB Classification \_\_\_\_\_

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

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-332-07, C-403-07  
 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White Station: "P" 195+00 Route: SR 160  
 Location from C/L (ft): \_\_\_\_\_ Lt. \_\_\_\_\_ Rt. 31  
 Sample No.: 4 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: EASY DRILLING FROM 0 TO 5 FEET.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--	Silt, Sand, Gravel	0--
2--		2--
4--		4--
6--		6--
8--		8--
10--		10--
12--		12--
14--		14--
16--		16--
18--		18--
20--		20--

Sieve Size	% Passing
3"	
2"	
1.5"	<b>100</b>
1"	<b>98</b>
3/4"	<b>91</b>
1/2"	<b>72</b>
3/8"	<b>60</b>
No. 4	<b>43</b>
No. 10	<b>34</b>
No. 16	<b>31</b>
No. 40	<b>27</b>
No. 50	<b>26</b>
No. 100	<b>20</b>
No. 200	<b>12</b>

Liquid Limit 21  
 Plastic Index 4  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 78  
 Cover \_\_\_\_\_  
 Thickness 4.3  
 Sand Equivalent 14  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 3,096  
 pH Factor 8.7  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-384-07, C-455-07  
 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White Station: "P" 200+00 Route: SR 160  
 Location from C/L (ft): \_\_\_\_\_ Lt. 35 Rt. \_\_\_\_\_  
 Sample No.: 47 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: HIT LIGHTLY CEMENTED LAYER FROM 3 FEET TO 4 FEET.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--		100
2--	Silt, Sand, Gravel	2--
4--		4--
6--		6--
8--		8--
10--		10--
12--		12--
14--		14--
16--		16--
18--		18--
20--		20--

Sieve Size	% Passing
3"	
2"	
1.5"	<b>100</b>
1"	<b>99</b>
3/4"	<b>92</b>
1/2"	<b>83</b>
3/8"	<b>73</b>
No. 4	<b>54</b>
No. 10	<b>41</b>
No. 16	<b>36</b>
No. 40	<b>31</b>
No. 50	<b>29</b>
No. 100	<b>25</b>
No. 200	<b>17</b>

Liquid Limit 29  
 Plastic Index 11  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 74  
 Cover Stabilometer Expansion Pressure  
 Thickness 5.7  
 Sand Equivalent 15  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 4,219  
 pH Factor 8.4  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-333-07, C-404-07  
 ..: 73326 Job Description: SPSR-0160 (013)  
 Date Rec'd 09/20/07  
 Samplers: Ford, White Station "P" 205+00 Route SR 160  
 Location from C/L (ft) Lt. \_\_\_\_\_ Rt. 31.5  
 Sample No.: 5 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: EASY DRILLING FROM 0 TO 5 FEET.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--	Silt, Sand, Gravel	100
2--		
4--		
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	<b>100</b>
1"	<b>99</b>
3/4"	<b>95</b>
1/2"	<b>81</b>
3/8"	<b>67</b>
No. 4	<b>43</b>
No. 10	<b>30</b>
No. 16	<b>26</b>
No. 40	<b>21</b>
No. 50	<b>20</b>
No. 100	<b>18</b>
No. 200	<b>11</b>

Liquid Limit 22  
 Plastic Index 4  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 83  
 Cover Stabilometer Expansion Pressure  
 Thickness 2.5  
 Sand Equivalent 19  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 1,024  
 pH Factor 8.2  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-383-07, C-454-07  
 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White Station: "P" 210+00 Route: SR 160  
 Location from C/L (ft): \_\_\_\_\_ Lt. 33 Rt. \_\_\_\_\_  
 Sample No.: 46 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: HIT REFUSAL AT 4 FEET AND COULD NOT  
PENETRATE.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--		100
2--	Silt, Sand, Gravel	2--
4--		4--
6--		6--
8--		8--
10--		10--
12--		12--
14--		14--
16--		16--
18--		18--
20--		20--

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	<b>100</b>
3/4"	<b>90</b>
1/2"	<b>74</b>
3/8"	<b>52</b>
No. 4	<b>41</b>
No. 10	<b>37</b>
No. 16	<b>32</b>
No. 40	<b>30</b>
No. 50	<b>27</b>
No. 100	<b>18</b>
No. 200	<b>16</b>

Liquid Limit 21  
 Plastic Index 4  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 78  
 Cover Stabilometer Expansion Pressure  
 Thickness 4.3  
 Sand Equivalent 16  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 1,580  
 pH Factor 8.3  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-334-07, C-405-07  
 A.: 73326 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White Station: "P" 215+00 Route: SR 160  
 Location from C/L (ft): \_\_\_\_\_ Lt. \_\_\_\_\_ Rt. 41.5  
 Sample No.: 6 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: EASY DRILLING FROM 0 TO 4 FEET. CALICHE  
FROM 4 FEET TO 4.5 FEET, COULD NOT PENETRATE FURTHER.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--	Silt, Sand, Gravel	100
2--		
4--		
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	<b>100</b>
3/4"	<b>97</b>
1/2"	<b>92</b>
3/8"	<b>83</b>
No. 4	<b>64</b>
No. 10	<b>50</b>
No. 16	<b>45</b>
No. 40	<b>39</b>
No. 50	<b>38</b>
No. 100	<b>33</b>
No. 200	<b>23</b>

Liquid Limit 23  
 Plastic Index 7  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 75  
 Cover Stabilometer Expansion Pressure  
 Thickness 5.4  
 Sand Equivalent 13  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 313  
 pH Factor 8.1  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 Job No.: Soils 09-07, RV-382-07, C-453-07  
 A.: 73326 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White & Marshall Station: "P" 220+00 Route: SR 160  
 Location from C/L (ft): \_\_\_\_\_ Lt. 43 Rt. \_\_\_\_\_  
 Sample No.: 45 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: HIT CEMENTED LAYER AT 3 FEET,  
INCREASED PSI TO 300 BUT COULD NOT PENETRATE  
PAST 4 FEET.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--	Silt, Sand, Gravel	0--
2--		2--
4--		4--
6--		6--
8--		8--
10--		10--
12--		12--
14--		14--
16--		16--
18--		18--
20--		20--

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	<b>100</b>
3/4"	<b>90</b>
1/2"	<b>78</b>
3/8"	<b>70</b>
No. 4	<b>49</b>
No. 10	<b>37</b>
No. 16	<b>33</b>
No. 40	<b>28</b>
No. 50	<b>27</b>
No. 100	<b>23</b>
No. 200	<b>17</b>

Liquid Limit 25  
 Plastic Index 8  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 67  
 Cover \_\_\_\_\_ 8.2 Expansion Pressure \_\_\_\_\_  
 Thickness \_\_\_\_\_  
 Sand Equivalent 16  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 196  
 pH Factor 7.9  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 Job No.: Soils 09-07, RV-335-07, C-406-07  
 A.: 73326 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White Station: "P" 225+00 Route: SR 160  
 Location from C/L (ft): \_\_\_\_\_ Lt. \_\_\_\_\_ Rt. 35  
 Sample No.: 7 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: WATER PIPELINE RUNNING EAST/WEST IS  
30 FEET NORTH OF BOREHOLE. DUG TO 3 FEET, HIT CALICHE,  
MOVED NORTH 5 FEET AND SAMPLED.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--	Silt, Sand, Gravel	100
2--		
4--		
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	<b>100</b>
1.5"	<b>99</b>
1"	<b>95</b>
3/4"	<b>87</b>
1/2"	<b>70</b>
3/8"	<b>59</b>
No. 4	<b>40</b>
No. 10	<b>32</b>
No. 16	<b>29</b>
No. 40	<b>26</b>
No. 50	<b>25</b>
No. 100	<b>22</b>
No. 200	<b>15</b>

Liquid Limit 23  
 Plastic Index 6  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 75  
 Cover Stabilometer Expansion Pressure  
 Thickness 5.4  
 Sand Equivalent 12  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 617  
 pH Factor 8.1  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-381-07, C-452-07  
 A.: 73326 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White & Marshall Station: "P" 230+00 Route: SR 160  
 Location from C/L (ft) Lt. 27 Rt. \_\_\_\_\_  
 Sample No.: 44 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: HIT CEMENTED LAYER FROM 2 FEET TO 3 FEET, INCREASED PSI TO 300 AND PENETRATED LAYER. HIT REFUSAL AT 4.5 FEET.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--	Silt, Sand, Gravel	100
2--		
4--		
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	
3/4"	<b>100</b>
1/2"	<b>88</b>
3/8"	<b>81</b>
No. 4	<b>57</b>
No. 10	<b>41</b>
No. 16	<b>35</b>
No. 40	<b>27</b>
No. 50	<b>25</b>
No. 100	<b>21</b>
No. 200	<b>15</b>

Liquid Limit 26  
 Plastic Index 5  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 77  
 Cover Stabilometer Expansion Pressure  
 Thickness 4.6  
 Sand Equivalent 18  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 3,436  
 pH Factor 8.7  
 HRB Classification \_\_\_\_\_

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



# LINE SAMPLING DATA

Date Reported: 11/02/07  
 Job No.: Soils 09-07, RV-336-07, C-407-07  
 A.S.: 73326 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White Station: "P" 235+00 Route: SR 160  
 Location from C/L (ft) Lt. \_\_\_\_\_ Rt. 30  
 Sample No.: 8 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: DRILLED THRU 5 FEET OF FILL.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--	Fill	100
2--		
4--		
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	<b>100</b>
1"	<b>96</b>
3/4"	<b>84</b>
1/2"	<b>64</b>
3/8"	<b>56</b>
No. 4	<b>39</b>
No. 10	<b>29</b>
No. 16	<b>26</b>
No. 40	<b>23</b>
No. 50	<b>22</b>
No. 100	<b>16</b>
No. 200	<b>10</b>

Liquid Limit 17  
 Plastic Index NP  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 78  
 Cover Stabilometer Expansion Pressure  
 Thickness 4.3  
 Sand Equivalent 22  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 1,404  
 pH Factor 8.3  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 Job No.: Soils 09-07, RV-337-07, C-408-07  
 A.: 73326 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White Station: "P" 235+00 Route: SR 160  
 Location from C/L (ft): \_\_\_\_\_ Lt. \_\_\_\_\_ Rt. 30  
 Sample No.: 8A County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: SAMPLED FROM 5 FEET TO 8 FEET, CALICHE  
AT 8 FEET.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--		100
2--		
4--		
6--	Silt, Sand, Gravel	
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	<b>100</b>
1"	<b>96</b>
3/4"	<b>94</b>
1/2"	<b>83</b>
3/8"	<b>74</b>
No. 4	<b>50</b>
No. 10	<b>32</b>
No. 16	<b>28</b>
No. 40	<b>22</b>
No. 50	<b>21</b>
No. 100	<b>16</b>
No. 200	<b>11</b>

Liquid Limit 25  
 Plastic Index 6  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 79  
 Cover Stabilometer Expansion Pressure  
 Thickness 3.9  
 Sand Equivalent 23  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 2,695  
 pH Factor 8.5  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-380-07, C-451-07  
 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White & Marshall Station: "P" 240+00 Route: SR 160  
 Location from C/L (ft): \_\_\_\_\_ Lt. 32 Rt. \_\_\_\_\_  
 Sample No.: 43 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: HIT CEMENTED LAYER FROM 1 FOOT TO 2 FEET, INCREASED PSI TO 300 AND PENETRATED LAYER.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--	Silt, Sand, Gravel	100
2--		
4--		
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	<b>100</b>
3/4"	<b>94</b>
1/2"	<b>89</b>
3/8"	<b>83</b>
No. 4	<b>60</b>
No. 10	<b>37</b>
No. 16	<b>29</b>
No. 40	<b>21</b>
No. 50	<b>19</b>
No. 100	<b>15</b>
No. 200	<b>9</b>

Liquid Limit 24  
 Plastic Index 2  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 82  
 Cover Stabilometer Expansion Pressure  
 Thickness 2.9  
 Sand Equivalent 26  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 5,291  
 pH Factor 8.4  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-338-07, C-409-07  
 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White Station: "P" 245+00 Route: SR 160  
 Location from C/L (ft): \_\_\_\_\_ Lt. \_\_\_\_\_ Rt. 30.5  
 Sample No.: 9 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: SAMPLED FROM 0 TO 2.5 FEET. CEMENTED LAYER AT 2.5 FEET.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--		100
2--	← Silt, Sand, Gravel	
4--		
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	<b>100</b>
3/4"	<b>97</b>
1/2"	<b>83</b>
3/8"	<b>66</b>
No. 4	<b>41</b>
No. 10	<b>27</b>
No. 16	<b>22</b>
No. 40	<b>17</b>
No. 50	<b>15</b>
No. 100	<b>12</b>
No. 200	<b>8</b>

Liquid Limit 27  
 Plastic Index 4  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 83  
 Cover Stabilometer Expansion Pressure  
 Thickness 2.5  
 Sand Equivalent 21  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 1,536  
 pH Factor 8.4  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-379-07, C-450-07  
 ..: 73326 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White & Marshall Station: "P" 250+00 Route: SR 160  
 Location from C/L (ft) Lt. 31.5 Rt. \_\_\_\_\_  
 Sample No.: 42 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: SAMPLED FROM 0 TO 4 FEET, HIT REFUSAL.  
AND COULD NOT PENETRATE.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--	Silt, Sand, Gravel	100
2--		
4--		
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	<b>100</b>
3/4"	<b>94</b>
1/2"	<b>80</b>
3/8"	<b>66</b>
No. 4	<b>49</b>
No. 10	<b>35</b>
No. 16	<b>30</b>
No. 40	<b>23</b>
No. 50	<b>21</b>
No. 100	<b>15</b>
No. 200	<b>9</b>

Liquid Limit 26  
 Plastic Index 3  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 74  
 Cover Stabilometer Expansion Pressure  
 Thickness 5.7  
 Sand Equivalent 21  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 5,051  
 pH Factor 8.4  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-339-07, C-410-07  
 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White Station: "P" 255+00 Route: SR 160  
 Location from C/L (ft) Lt. \_\_\_\_\_ Rt. 29  
 Sample No.: 10 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: SAMPLED FROM 0 TO 4 FEET. CALICHE AT 4 FEET, COULD NOT PENETRATE.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--	Silt, Sand, Gravel	100
2--		
4--		
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	100
1.5"	96
1"	93
3/4"	93
1/2"	75
3/8"	71
No. 4	54
No. 10	39
No. 16	32
No. 40	26
No. 50	24
No. 100	19
No. 200	11

Liquid Limit 21  
 Plastic Index NP  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 79  
 Cover Stabilometer Expansion Pressure  
 Thickness 3.9  
 Sand Equivalent 21  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 1,912  
 pH Factor 8.3  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-378-07, C-449-07  
 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White & Marshall Station: "P" 260+00 Route: SR 160  
 Location from C/L (ft): \_\_\_\_\_ Lt. 34 Rt. \_\_\_\_\_  
 Sample No.: 41 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: DRILLED FROM 0 TO 2.5 FEET, HIT REFUSAL.  
INCREASED PSI TO 500 AND COULD NOT PENETRATE. MOVED  
WEST 5 FEET AND SAMPLED.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--	Silt, Sand, Gravel	0-- 100
2--		2--
4--		4--
6--		6--
8--		8--
10--		10--
12--		12--
14--		14--
16--		16--
18--		18--
20--		20--

Sieve Size	% Passing
3"	
2"	
1.5"	<b>100</b>
1"	<b>95</b>
3/4"	<b>86</b>
1/2"	<b>73</b>
3/8"	<b>51</b>
No. 4	<b>33</b>
No. 10	<b>27</b>
No. 16	<b>20</b>
No. 40	<b>18</b>
No. 50	<b>14</b>
No. 100	<b>10</b>
No. 200	<b>9</b>

Liquid Limit 28  
 Plastic Index 6  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 76  
 Cover Stabilometer Expansion Pressure  
 Thickness 5.0  
 Sand Equivalent 24  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 4,348  
 pH Factor 8.5  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-340-07, C-411-07  
 L.A.: 73326 Job Description: SPSR-0160 (013)  
 Date Rec'd 09/20/07  
 Samplers: Ford, White Station "P" 265+00 Route SR 160  
 Location from C/L (ft) Lt. \_\_\_\_\_ Rt. 31  
 Sample No.: 11 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: SAMPLED FROM 0 TO 4 FEET. CALICHE AT  
4 FEET, COULD NOT PENETRATE.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--	Silt, Sand, Gravel	0-- 100
2--		2--
4--		4--
6--		6--
8--		8--
10--		10--
12--		12--
14--		14--
16--		16--
18--		18--
20--		20--

Sieve Size	% Passing
3"	
2"	<b>100</b>
1.5"	<b>99</b>
1"	<b>94</b>
3/4"	<b>89</b>
1/2"	<b>68</b>
3/8"	<b>61</b>
No. 4	<b>40</b>
No. 10	<b>29</b>
No. 16	<b>25</b>
No. 40	<b>21</b>
No. 50	<b>19</b>
No. 100	<b>15</b>
No. 200	<b>10</b>

Liquid Limit 20  
 Plastic Index 1  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 82  
 Cover Stabilometer Expansion Pressure  
 Thickness 2.9  
 Sand Equivalent 21  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 2,110  
 pH Factor 8.5  
 HRB Classification \_\_\_\_\_

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



# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-377-07, C-448-07  
 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White & Marshall Station: "P" 270+00 Route: SR 160  
 Location from C/L (ft): \_\_\_\_\_ Lt. 32 Rt. \_\_\_\_\_  
 Sample No.: 40 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: \_\_\_\_\_  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--	Silt, Sand, Gravel	0--
2--		2--
4--		4--
6--		6--
8--		8--
10--		10--
12--		12--
14--		14--
16--		16--
18--		18--
20--		20--

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	<b>100</b>
3/4"	<b>95</b>
1/2"	<b>78</b>
3/8"	<b>70</b>
No. 4	<b>49</b>
No. 10	<b>35</b>
No. 16	<b>31</b>
No. 40	<b>26</b>
No. 50	<b>24</b>
No. 100	<b>20</b>
No. 200	<b>10</b>

Liquid Limit 23  
 Plastic Index 4  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 82  
 Cover Stabilometer Expansion Pressure  
 Thickness 2.9  
 Sand Equivalent 17  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 3,268  
 pH Factor 8.4  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-341-07, C-412-07  
 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White Station: "P" 275+00 Route: SR 160  
 Location from C/L (ft) Lt. \_\_\_\_\_ Rt. 31  
 Sample No.: 12 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: SAMPLED FROM 0 TO 5 FEET. FROM 0 TO 4 FEET IS FILL, FROM 4 FEET TO 5 FEET IS SILT, SAND & GRAVEL.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--		100
2--	← Fill	
4--	←	
6--	← Silt, Sand, Gravel	
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	<b>100</b>
1"	<b>99</b>
3/4"	<b>95</b>
1/2"	<b>85</b>
3/8"	<b>79</b>
No. 4	<b>60</b>
No. 10	<b>47</b>
No. 16	<b>43</b>
No. 40	<b>38</b>
No. 50	<b>36</b>
No. 100	<b>31</b>
No. 200	<b>21</b>

Liquid Limit 28  
 Plastic Index 9  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 71  
 Cover Stabilometer Expansion Pressure  
 Thickness 6.8  
 Sand Equivalent 11  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 978  
 pH Factor 8.7  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-342-07, C-413-07  
 No.: 73326 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White Station: "P" 275+00 Route: SR 160  
 Location from C/L (ft) Lt. \_\_\_\_\_ Rt. 31  
 Sample No.: 12A County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: \_\_\_\_\_  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--		100
2--		
4--		
6--	← Silty Sand	
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	
3/4"	<b>100</b>
1/2"	<b>97</b>
3/8"	<b>90</b>
No. 4	<b>77</b>
No. 10	<b>66</b>
No. 16	<b>62</b>
No. 40	<b>56</b>
No. 50	<b>54</b>
No. 100	<b>50</b>
No. 200	<b>45</b>

Liquid Limit 84  
 Plastic Index 39  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 48  
 Cover Stabilometer Expansion Pressure  
 Thickness 15.0  
 Sand Equivalent 0  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 1,730  
 pH Factor 8.9  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-376-07, C-447-07  
 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White & Marshall Station: "P" 280+00 Route: SR 160  
 Location from C/L (ft): Lt. 30 Rt. \_\_\_\_\_  
 Sample No.: 39 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: \_\_\_\_\_  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--	Sandy Silt	100
2--		
4--		
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	<b>100</b>
1"	<b>98</b>
3/4"	<b>98</b>
1/2"	<b>89</b>
3/8"	<b>83</b>
No. 4	<b>71</b>
No. 10	<b>55</b>
No. 16	<b>48</b>
No. 40	<b>39</b>
No. 50	<b>37</b>
No. 100	<b>31</b>
No. 200	<b>24</b>

Liquid Limit 42  
 Plastic Index 10  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 75  
 Cover Stabilometer Expansion Pressure  
 Thickness 5.4  
 Sand Equivalent 16  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 1,164  
 pH Factor 8.5  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-343-07, C-414-07  
 No.: 73326 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White Station: "P" 285+00 Route: SR 160  
 Location from C/L (ft) Lt. \_\_\_\_\_ Rt. 31  
 Sample No.: 13 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: SAMPLED FROM 0 TO 5 FEET.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--		100
2--	Fill	
4--	Native Matl.	
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	<b>100</b>
1"	<b>98</b>
3/4"	<b>98</b>
1/2"	<b>82</b>
3/8"	<b>75</b>
No. 4	<b>57</b>
No. 10	<b>43</b>
No. 16	<b>39</b>
No. 40	<b>34</b>
No. 50	<b>32</b>
No. 100	<b>26</b>
No. 200	<b>19</b>

Liquid Limit 38  
 Plastic Index 13  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 67  
 Cover Stabilometer Expansion Pressure  
 Thickness 8.2  
 Sand Equivalent 10  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 4,098  
 pH Factor 8.8  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-344-07, C-415-07  
 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White Station: "P" 285+00 Route: SR 160  
 Location from C/L (ft): \_\_\_\_\_ Lt. \_\_\_\_\_ Rt. 31  
 County: CLARK

Sample No.: 13A

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_

Remarks: SAMPLED FRO 5 FEET TO 7.5 FEET. CALICHE  
AT 7.5 FEET, COULD NOT PENETRATE.

Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--		100
2--		
4--		
6--	← Silty Sand	
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	<b>100</b>
1"	<b>98</b>
3/4"	<b>91</b>
1/2"	<b>83</b>
3/8"	<b>79</b>
No. 4	<b>63</b>
No. 10	<b>48</b>
No. 16	<b>43</b>
No. 40	<b>37</b>
No. 50	<b>35</b>
No. 100	<b>30</b>
No. 200	<b>23</b>

Liquid Limit 32  
 Plastic Index 11  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 65  
 Cover Stabilometer Expansion Pressure  
 Thickness 8.9

Sand Equivalent 12  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 3,401  
 pH Factor 8.7  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-375-07, C-446-07  
 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White & Marshall  
 Station: "P" 290+00 Route: SR 160  
 Location from C/L (ft): \_\_\_\_\_ Lt. 32 Rt. \_\_\_\_\_  
 Sample No.: 38 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: SAMPLED FROM 0 TO 2.5 FEET, HIT REFUSAL  
AND COULD NOT PENETRATE.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--		100
2--	← Silt, Sand, Gravel	
4--		
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	<b>100</b>
3/4"	<b>83</b>
1/2"	<b>78</b>
3/8"	<b>73</b>
No. 4	<b>59</b>
No. 10	<b>50</b>
No. 16	<b>47</b>
No. 40	<b>43</b>
No. 50	<b>41</b>
No. 100	<b>38</b>
No. 200	<b>24</b>

Liquid Limit 19  
 Plastic Index 2  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 80  
 Cover Stabilometer Expansion Pressure  
 Thickness 3.6  
 Sand Equivalent 13  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 267  
 pH Factor 7.7  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-345-07, C-416-07  
 No.: 73326 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White Station: "P" 295+00 Route: SR 160  
 Location from C/L (ft) Lt. \_\_\_\_\_ Rt. 31.5  
 Sample No.: 14 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: \_\_\_\_\_  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--	 Silt, Sand, Gravel	100
2--		
4--		
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	<b>100</b>
3/4"	<b>98</b>
1/2"	<b>76</b>
3/8"	<b>68</b>
No. 4	<b>42</b>
No. 10	<b>28</b>
No. 16	<b>24</b>
No. 40	<b>20</b>
No. 50	<b>19</b>
No. 100	<b>15</b>
No. 200	<b>9</b>

Liquid Limit 34  
 Plastic Index 10  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 74  
 Cover Stabilometer Expansion Pressure  
 Thickness 5.7  
 Sand Equivalent 18  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 3,413  
 pH Factor 8.6  
 HRB Classification \_\_\_\_\_

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



# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-374-07, C-445-07  
 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White & Marshall Station: "P" 300+00 Route: SR 160  
 Location from C/L (ft): Lt. 53 Rt. \_\_\_\_\_  
 Sample No.: 37 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: \_\_\_\_\_  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--		100
2--	← Fill	
4--	←	
6--	← Silt, Sand, Gravel	
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	<b>100</b>
1.5"	<b>94</b>
1"	<b>92</b>
3/4"	<b>69</b>
1/2"	<b>56</b>
3/8"	<b>46</b>
No. 4	<b>34</b>
No. 10	<b>28</b>
No. 16	<b>26</b>
No. 40	<b>24</b>
No. 50	<b>23</b>
No. 100	<b>19</b>
No. 200	<b>12</b>

Liquid Limit 20  
 Plastic Index 3  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 78  
 Cover Stabilometer Expansion Pressure  
 Thickness 4.3  
 Sand Equivalent 13  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 3,058  
 pH Factor 8.2  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-346-07, C-417-07  
 No.: 73326 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White & Marshall Station: "P" 305+00 Route: SR 160  
 Location from C/L (ft) Lt. \_\_\_\_\_ Rt. 30  
 Sample No.: 15 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: \_\_\_\_\_  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--	 Silt, Sand, Gravel	100
2--		
4--		
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	<b>100</b>
1"	<b>99</b>
3/4"	<b>93</b>
1/2"	<b>83</b>
3/8"	<b>77</b>
No. 4	<b>60</b>
No. 10	<b>47</b>
No. 16	<b>43</b>
No. 40	<b>39</b>
No. 50	<b>38</b>
No. 100	<b>32</b>
No. 200	<b>27</b>

Liquid Limit 19  
 Plastic Index NP  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 81  
 Cover Stabilometer Expansion Pressure  
 Thickness 3.2  
 Sand Equivalent 21  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 671  
 pH Factor 8.4  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-373-07, C-444-07  
 L.A.: 73326 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White & Marshall Station: "P" 310+00 Route: SR 160  
 Location from C/L (ft) Lt. 31 Rt. \_\_\_\_\_  
 Sample No.: 36 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: SAMPLED FROM 0 TO 4 FEET, HIT REFUSAL  
AND COULD NOT PENETRATE.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--	Fill	100
2--	Silt, Sand, Gravel	
4--		
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	100
1"	93
3/4"	78
1/2"	62
3/8"	49
No. 4	32
No. 10	23
No. 16	21
No. 40	19
No. 50	18
No. 100	14
No. 200	8

Liquid Limit 19  
 Plastic Index NP  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 81  
 Cover Stabilometer Expansion Pressure  
 Thickness 3.2  
 Sand Equivalent 25  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 3,831  
 pH Factor 8.2  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-347-07, C-418-07  
 No.: 73326 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White & Marshall Station: "P" 315+00 Route: SR 160  
 Location from C/L (ft) Lt. \_\_\_\_\_ Rt. 30  
 Sample No.: 16 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: SAMPLED FROM 0 TO 2 FEET. CALICHE AT 2 FEET.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--		100
2--	← Silt, Sand, Gravel	
4--		
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	<b>100</b>
1"	<b>99</b>
3/4"	<b>91</b>
1/2"	<b>70</b>
3/8"	<b>59</b>
No. 4	<b>37</b>
No. 10	<b>23</b>
No. 16	<b>18</b>
No. 40	<b>14</b>
No. 50	<b>12</b>
No. 100	<b>8</b>
No. 200	<b>5</b>

Liquid Limit 19  
 Plastic Index NP  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 82  
 Cover Stabilometer Expansion Pressure  
 Thickness 2.9  
 Sand Equivalent 24  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 4,808  
 pH Factor 8.8  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-372-07, C-443-07  
 L.A.: 73326 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White & Marshall Station: "P" 320+00 Route: SR 160  
 Location from C/L (ft) Lt. 30 Rt. \_\_\_\_\_  
 Sample No.: 35 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_

Remarks: SAMPLED FROM 0 TO 3.5 FEET, HIT REFUSAL AND COULD NOT PENETRATE.

Submitted By: D. WHITE

Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--	Silt, Sand, Gravel	100
2--		
4--		
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	<b>100</b>
1"	<b>94</b>
3/4"	<b>87</b>
1/2"	<b>69</b>
3/8"	<b>53</b>
No. 4	<b>30</b>
No. 10	<b>19</b>
No. 16	<b>16</b>
No. 40	<b>14</b>
No. 50	<b>13</b>
No. 100	<b>9</b>
No. 200	<b>5</b>

Liquid Limit 18  
 Plastic Index NP  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 81  
 Cover Stabilometer Expansion Pressure  
 Thickness 3.2  
 Sand Equivalent 26  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 4,132  
 pH Factor 8.1  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-348-07, C-419-07  
 A.: 73326 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White & Marshall Station: "P" 325+00 Route: SR 160  
 Location from C/L (ft) Lt. \_\_\_\_\_ Rt. 30  
 Sample No.: 17 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: \_\_\_\_\_  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--	Silt, Sand, Gravel	0--
2--		2--
4--		4--
6--		6--
8--		8--
10--		10--
12--		12--
14--		14--
16--		16--
18--		18--
20--		20--

Sieve Size	% Passing
3"	
2"	
1.5"	<b>100</b>
1"	<b>99</b>
3/4"	<b>91</b>
1/2"	<b>75</b>
3/8"	<b>65</b>
No. 4	<b>40</b>
No. 10	<b>26</b>
No. 16	<b>22</b>
No. 40	<b>18</b>
No. 50	<b>17</b>
No. 100	<b>10</b>
No. 200	<b>6</b>

Liquid Limit 20  
 Plastic Index NP  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 81  
 Cover Stabilometer Expansion Pressure  
 Thickness 3.2  
 Sand Equivalent 21  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 4,329  
 pH Factor 8.7  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-371-07, C-442-07  
 L.A.: 73326 Job Description: SPSR-0160 (013)  
 Date Rec'd 09/20/07  
 Samplers: Ford, White & Marshall Station "P" 330+00 Route SR 160  
 Location from C/L (ft) Lt. 32 Rt. \_\_\_\_\_  
 Sample No.: 34 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: SAMPLED FROM 0 TO 4 FEET, HIT REFUSAL  
AND COULD NOT PENETRATE.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--	Silt, Sand, Gravel	0-- 100
2--		2--
4--		4--
6--		6--
8--		8--
10--		10--
12--		12--
14--		14--
16--		16--
18--		18--
20--		20--

Sieve Size	% Passing
3"	
2"	
1.5"	<b>100</b>
1"	<b>91</b>
3/4"	<b>86</b>
1/2"	<b>74</b>
3/8"	<b>60</b>
No. 4	<b>39</b>
No. 10	<b>27</b>
No. 16	<b>24</b>
No. 40	<b>20</b>
No. 50	<b>18</b>
No. 100	<b>10</b>
No. 200	<b>5</b>

Liquid Limit 16  
 Plastic Index NP  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 82  
 Cover Stabilometer Expansion Pressure  
 Thickness 2.9  
 Sand Equivalent 26  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 2,545  
 pH Factor 8.1  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-349-07, C-420-07  
 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White & Marshall  
 Station: "P" 335+00 Route: SR 160  
 Location from C/L (ft): \_\_\_\_\_ Lt. \_\_\_\_\_ Rt. 30  
 Sample No.: 18 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: SAMPLED FROM 0 TO 5 FEET.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--		100
2--	← Fill	2--
4--	← Native Matl.	4--
6--		6--
8--		8--
10--		10--
12--		12--
14--		14--
16--		16--
18--		18--
20--		20--

Sieve Size	% Passing
3"	
2"	
1.5"	<b>100</b>
1"	<b>97</b>
3/4"	<b>92</b>
1/2"	<b>72</b>
3/8"	<b>63</b>
No. 4	<b>47</b>
No. 10	<b>36</b>
No. 16	<b>32</b>
No. 40	<b>27</b>
No. 50	<b>25</b>
No. 100	<b>17</b>
No. 200	<b>10</b>

Liquid Limit 17  
 Plastic Index NP  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 80  
 Cover Stabilometer Expansion Pressure  
 Thickness 3.6  
 Sand Equivalent 20  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 4,405  
 pH Factor 8.7  
 HRB Classification \_\_\_\_\_

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



# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-350-07, C-421-07  
 E.A.: 73326 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White & Marshall Station: "P" 335+00 Route: SR 160  
 Location from C/L (ft) Lt. \_\_\_\_\_ Rt. 30  
 Sample No.: 18A County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: \_\_\_\_\_  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--		100
2--		
4--		
6--	← Silt, Sand, Gravel	
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	<b>100</b>
1"	<b>99</b>
3/4"	<b>95</b>
1/2"	<b>84</b>
3/8"	<b>71</b>
No. 4	<b>46</b>
No. 10	<b>30</b>
No. 16	<b>26</b>
No. 40	<b>22</b>
No. 50	<b>20</b>
No. 100	<b>13</b>
No. 200	<b>8</b>

Liquid Limit 17  
 Plastic Index NP  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 83  
 Cover Stabilometer Expansion Pressure  
 Thickness 2.5  
 Sand Equivalent 20  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 5,959  
 pH Factor 8.8  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-390-07, C-461-07  
 S.A.: 73326 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White Station: "P" 336+00 Route: SR 160  
 Location from C/L (ft) Lt. \_\_\_\_\_ Rt. 75  
 Sample No.: 52 (B2) County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: LIGHTLY CEMENTED LAYER FROM 3 FEET TO 5 FEET, INCREASED PSE TO 300 AND PENETRATED.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--		100
2--		
4--		
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	<b>100</b>
1"	<b>99</b>
3/4"	<b>97</b>
1/2"	<b>75</b>
3/8"	<b>65</b>
No. 4	<b>46</b>
No. 10	<b>33</b>
No. 16	<b>30</b>
No. 40	<b>25</b>
No. 50	<b>23</b>
No. 100	<b>15</b>
No. 200	<b>8</b>

Liquid Limit 16  
 Plastic Index NP  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 82  
 Cover Stabilometer Expansion Pressure  
 Thickness 2.9  
 Sand Equivalent 22  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 6,817  
 pH Factor 8.6  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-389-07, C-460-07  
 S.A.: 73326 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White Station: "P" 337+35 Route: SR 160  
 Location from C/L (ft) Lt. 95 Rt. \_\_\_\_\_  
 Sample No.: 51A (B1) County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: \_\_\_\_\_  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--		100
2--		
4--		
6--	Sandy Silt	
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	
3/4"	
1/2"	<b>100</b>
3/8"	<b>98</b>
No. 4	<b>90</b>
No. 10	<b>80</b>
No. 16	<b>75</b>
No. 40	<b>67</b>
No. 50	<b>65</b>
No. 100	<b>59</b>
No. 200	<b>51</b>

Liquid Limit 55  
 Plastic Index 19  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 61  
 Cover Stabilometer Expansion Pressure  
 Thickness 10.4  
 Sand Equivalent 6  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 767  
 pH Factor 8.8  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-388-07, C-459-07  
 A.: 73326 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White Station: "P" 337+35 Route: SR 160  
 Location from C/L (ft) Lt. 95 Rt. \_\_\_\_\_  
 Sample No.: 51 (B1) County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: HIT CEMENTED LAYER FROM 3 FEET TO 4 FEET, INCREASED PSI TO 400 AND PENETRATED LAYER.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--	Silt, Sand, Gravel	100
2--		
4--		
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	<b>100</b>
1"	<b>95</b>
3/4"	<b>92</b>
1/2"	<b>89</b>
3/8"	<b>86</b>
No. 4	<b>74</b>
No. 10	<b>60</b>
No. 16	<b>54</b>
No. 40	<b>47</b>
No. 50	<b>44</b>
No. 100	<b>36</b>
No. 200	<b>24</b>

Liquid Limit	<u>34</u>
Plastic Index	<u>9</u>
Specific Gravity	_____
Resistance Value	<u>75</u>
Cover	Stabilometer Expansion Pressure
Thickness	<u>5.4</u>
Sand Equivalent	<u>15</u>
Natural Moisture, %	_____
Resistivity	<u>1,114</u>
pH Factor	<u>8.6</u>
HRB Classification	_____

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-370-07, C-441-07  
 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White & Marshall Station: "P" 340+20 Route: SR 160  
 Location from C/L (ft): Lt. 90 Rt. \_\_\_\_\_  
 Sample No.: 33A (B3) County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: \_\_\_\_\_  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--		100
2--		
4--		
6--	Silt, Sand, Gravel	
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	<b>100</b>
1"	<b>95</b>
3/4"	<b>90</b>
1/2"	<b>74</b>
3/8"	<b>65</b>
No. 4	<b>47</b>
No. 10	<b>33</b>
No. 16	<b>28</b>
No. 40	<b>20</b>
No. 50	<b>17</b>
No. 100	<b>10</b>
No. 200	<b>6</b>

Liquid Limit 18  
 Plastic Index NP  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 81  
 Cover Stabilometer Expansion Pressure  
 Thickness 3.2  
 Sand Equivalent 31  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 7,987  
 pH Factor 8.2  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-369-07, C-440-07  
 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White & Marshall  
 Station: "P" 340+20 Route: SR 160  
 Location from C/L (ft): Lt. 90 Rt. \_\_\_\_\_  
 Sample No.: 33 (B3) County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: HIT COBBLES (BOULDER) FROM 3 FEET TO 4 FEET.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--	 Silt, Sand, Gravel	100
2--		
4--		
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	<b>100</b>
1"	<b>92</b>
3/4"	<b>90</b>
1/2"	<b>73</b>
3/8"	<b>65</b>
No. 4	<b>39</b>
No. 10	<b>22</b>
No. 16	<b>18</b>
No. 40	<b>14</b>
No. 50	<b>12</b>
No. 100	<b>9</b>
No. 200	<b>5</b>

Liquid Limit 19  
 Plastic Index NP  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 81  
 Cover Stabilometer Expansion Pressure  
 Thickness 3.2  
 Sand Equivalent 26  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 7,246  
 pH Factor 8.0  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-392-07, C-463-07  
 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White Station: "P" 340+50 Route: SR 160  
 Location from C/L (ft): \_\_\_\_\_ Lt. \_\_\_\_\_ Rt. 90  
 County: CLARK

Sample No.: 53A (B4)  
 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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: \_\_\_\_\_  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--		100
2--		
4--		
6--	Silt, Sand, Gravel	
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	<b>100</b>
3/4"	<b>97</b>
1/2"	<b>90</b>
3/8"	<b>84</b>
No. 4	<b>59</b>
No. 10	<b>39</b>
No. 16	<b>33</b>
No. 40	<b>26</b>
No. 50	<b>24</b>
No. 100	<b>18</b>
No. 200	<b>10</b>

Liquid Limit 17  
 Plastic Index NP  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 81  
 Cover Stabilometer Expansion Pressure  
 Thickness 3.2  
 Sand Equivalent 21  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 6,974  
 pH Factor 8.7  
 HRB Classification \_\_\_\_\_

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

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-391-07, C-462-07  
 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White Station: "P" 340+50 Route: SR 160  
 Location from C/L (ft): \_\_\_\_\_ Lt. \_\_\_\_\_ Rt. 90  
 Sample No.: 53 (B4) County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: CEMENTED LAYER FROM 3 FEET TO 4.5 FEET, INCREASED PSE TO 300 AND PENETRATED.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--	Silt, Sand, Gravel	100
2--		
4--		
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	<b>100</b>
3/4"	<b>93</b>
1/2"	<b>83</b>
3/8"	<b>74</b>
No. 4	<b>55</b>
No. 10	<b>41</b>
No. 16	<b>36</b>
No. 40	<b>30</b>
No. 50	<b>28</b>
No. 100	<b>22</b>
No. 200	<b>14</b>

Liquid Limit 20  
 Plastic Index NP  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 81  
 Cover Stabilometer Expansion Pressure  
 Thickness 3.2  
 Sand Equivalent 20  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 6,780  
 pH Factor 8.7  
 HRB Classification \_\_\_\_\_

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



# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-351-07, C-422-07  
 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White & Marshall Station: "P" 345+00 Route: SR 160  
 Location from C/L (ft): \_\_\_\_\_ Lt. \_\_\_\_\_ Rt. 31  
 Sample No.: 19 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: SAMPLED FROM 0 TO 5 FEET.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--		100
2--	← Silty Sand	2--
4--	← Cemented Layer	4--
6--		6--
8--		8--
10--		10--
12--		12--
14--		14--
16--		16--
18--		18--
20--		20--

Sieve Size	% Passing
3"	
2"	
1.5"	<b>100</b>
1"	<b>98</b>
3/4"	<b>91</b>
1/2"	<b>71</b>
3/8"	<b>61</b>
No. 4	<b>43</b>
No. 10	<b>32</b>
No. 16	<b>28</b>
No. 40	<b>24</b>
No. 50	<b>23</b>
No. 100	<b>16</b>
No. 200	<b>9</b>

Liquid Limit 17  
 Plastic Index NP  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 81  
 Cover \_\_\_\_\_  
 Thickness 3.2  
 Sand Equivalent 22  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 3,333  
 pH Factor 8.7  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-368-07, C-439-07  
 A.: 73326 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White & Marshall Station: "P" 351+00 Route: SR 160  
 Location from C/L (ft) Lt. 90 Rt. \_\_\_\_\_  
 Sample No.: 32A (B5) County: CLARK

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input checked="" type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/>	0--		100
Vegetation: None <input type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/>	2--		2--
Cut Section <input type="checkbox"/> Fill Section <input type="checkbox"/>	4--		4--
Taken Through Oil <input type="checkbox"/> Taken on Shoulder <input type="checkbox"/>	6--	Silt, Sand, Gravel	6--
Gravel Depth (in) _____ Oil Depth (in) _____	8--		8--
Remarks: <u>HIT CEMENTED LAYER FROM 7.5 FEET TO 8.5 FEET.</u>	10--		10--
	12--		12--
	14--		14--
	16--		16--
	18--		18--
Submitted By: <u>D. WHITE</u>	20--		20--
Title: _____			

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	<b>100</b>
3/4"	<b>98</b>
1/2"	<b>85</b>
3/8"	<b>72</b>
No. 4	<b>47</b>
No. 10	<b>32</b>
No. 16	<b>27</b>
No. 40	<b>22</b>
No. 50	<b>21</b>
No. 100	<b>14</b>
No. 200	<b>8</b>

Liquid Limit	<u>19</u>
Plastic Index	<u>NP</u>
Specific Gravity	_____
Resistance Value	<u>82</u>
Cover	Stabilometer Expansion Pressure
Thickness	<u>2.9</u>
Sand Equivalent	<u>24</u>
Natural Moisture, %	_____
Resistivity	<u>7,553</u>
pH Factor	<u>8.2</u>
HRB Classification	_____

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-367-07, C-438-07  
 A.: 73326 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White & Marshall Station: "P" 351+00 Route: SR 160  
 Location from C/L (ft) Lt. 90 Rt. \_\_\_\_\_  
 Sample No.: 32 (B5) County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: HIT CEMENTED LAYERS AT 2.5 FEET AND 4.5 FEET, INCREASED PSI TO 300 AND PENETRATED LAYERS.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--		100
2--	Silt, Sand, Gravel	2--
4--		4--
6--		6--
8--		8--
10--		10--
12--		12--
14--		14--
16--		16--
18--		18--
20--		20--

Sieve Size	% Passing
3"	
2"	
1.5"	<b>100</b>
1"	<b>95</b>
3/4"	<b>82</b>
1/2"	<b>73</b>
3/8"	<b>66</b>
No. 4	<b>54</b>
No. 10	<b>43</b>
No. 16	<b>39</b>
No. 40	<b>34</b>
No. 50	<b>32</b>
No. 100	<b>24</b>
No. 200	<b>15</b>

Liquid Limit 22  
 Plastic Index NP  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 76  
 Cover Stabilometer Expansion Pressure  
 Thickness 5.0  
 Sand Equivalent 17  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 7,013  
 pH Factor 7.9  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-352-07, C-423-07  
 ID: 73326 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White & Marshall Station: "P" 355+00 Route: SR 160  
 Location from C/L (ft) Lt. \_\_\_\_\_ Rt. 32  
 Sample No.: 20 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: SMALL DRAINAGE PIPE LOCATED 10 FEET FROM HOLE.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--	Silt, Sand, Gravel	100
2--		
4--		
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	<b>100</b>
3/4"	<b>96</b>
1/2"	<b>87</b>
3/8"	<b>77</b>
No. 4	<b>56</b>
No. 10	<b>41</b>
No. 16	<b>37</b>
No. 40	<b>30</b>
No. 50	<b>28</b>
No. 100	<b>20</b>
No. 200	<b>13</b>

Liquid Limit 23  
 Plastic Index 5  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 75  
 Cover Stabilometer Expansion Pressure  
 Thickness 5.4  
 Sand Equivalent 19  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 3,401  
 pH Factor 8.3  
 HRB Classification \_\_\_\_\_

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

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-366-07, C-437-07  
 No.: 73326 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White & Marshall Station: "P" 361+00 Route: SR 160  
 Location from C/L (ft) Lt. 90 Rt. \_\_\_\_\_  
 Sample No.: 31 (B6) County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: SAMPLED FROM 0 TO 3 FEET. COULD NOT PENETRATE ANY FURTHER.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--		100
2--		
4--	Silt, Sand, Gravel	
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	<b>100</b>
1"	<b>92</b>
3/4"	<b>83</b>
1/2"	<b>74</b>
3/8"	<b>70</b>
No. 4	<b>56</b>
No. 10	<b>46</b>
No. 16	<b>42</b>
No. 40	<b>38</b>
No. 50	<b>36</b>
No. 100	<b>30</b>
No. 200	<b>19</b>

Liquid Limit 23  
 Plastic Index 2  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 77  
 Cover Stabilometer Expansion Pressure  
 Thickness 4.6  
 Sand Equivalent 16  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 1,736  
 pH Factor 7.9  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-353-07, C-424-07  
 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White & Marshall Station: "P" 365+00 Route: SR 160  
 Location from C/L (ft): \_\_\_\_\_ Lt. \_\_\_\_\_ Rt. 31  
 Sample No.: 21 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: SAMPLED FROM 0 TO 4 FEET. CALICHE AT 4 FEET.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--	Silt, Sand, Gravel	100
2--		
4--		
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	
3/4"	<b>100</b>
1/2"	<b>90</b>
3/8"	<b>79</b>
No. 4	<b>55</b>
No. 10	<b>38</b>
No. 16	<b>33</b>
No. 40	<b>27</b>
No. 50	<b>25</b>
No. 100	<b>19</b>
No. 200	<b>13</b>

Liquid Limit 23  
 Plastic Index NP  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 77  
 Cover Stabilometer Expansion Pressure  
 Thickness 4.6  
 Sand Equivalent 20  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 4,132  
 pH Factor 8.5  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-365-07, C-436-07  
 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White & Marshall Station: "P" 370+00 Route: SR 160  
 Location from C/L (ft): Lt. 28 Rt. \_\_\_\_\_  
 Sample No.: 30 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: SAMPLED FROM 0 TO 2.5 FEET. COULD NOT PENETRATE ANY FURTHER.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--		100
2--		
4--	Silt, Sand, Gravel	
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	<b>100</b>
3/4"	<b>91</b>
1/2"	<b>71</b>
3/8"	<b>63</b>
No. 4	<b>45</b>
No. 10	<b>33</b>
No. 16	<b>28</b>
No. 40	<b>24</b>
No. 50	<b>22</b>
No. 100	<b>18</b>
No. 200	<b>12</b>

Liquid Limit 26  
 Plastic Index 7  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 80  
 Cover Stabilometer Expansion Pressure  
 Thickness 3.6  
 Sand Equivalent 16  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 3,496  
 pH Factor 7.9  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-393-07, C-464-07  
 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White & Marshall Station: "P" 372+20 Route: SR 160  
 Location from C/L (ft): Lt. 88 Rt. \_\_\_\_\_  
 Sample No.: 54 (B7) County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: HIT REFUSAL AT 3 FEET, INCREASED PSI TO 500 TO PENETRATE TO 4.5 FEET.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--	Silt, Sand, Gravel	100
2--		
4--		
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	<b>100</b>
1.5"	<b>97</b>
1"	<b>82</b>
3/4"	<b>78</b>
1/2"	<b>72</b>
3/8"	<b>69</b>
No. 4	<b>58</b>
No. 10	<b>47</b>
No. 16	<b>44</b>
No. 40	<b>40</b>
No. 50	<b>38</b>
No. 100	<b>34</b>
No. 200	<b>29</b>

Liquid Limit 21  
 Plastic Index NP  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 81  
 Cover Stabilometer Expansion Pressure  
 Thickness 3.2  
 Sand Equivalent 24  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 2,421  
 pH Factor 8.3  
 HRB Classification \_\_\_\_\_

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

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-354-07, C-425-07  
 No.: 73326 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White & Marshall Station: "P" 375+00 Route: SR 160  
 Location from C/L (ft) Lt. \_\_\_\_\_ Rt. 32  
 Sample No.: 22 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: HEAVY GRAVEL LAYER FROM 4 FEET TO 5 FEET.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--		100
2--	← Silt, Sand, Gravel →	2--
4--		4--
6--		6--
8--		8--
10--		10--
12--		12--
14--		14--
16--		16--
18--		18--
20--		20--

Sieve Size	% Passing
3"	
2"	<b>100</b>
1.5"	<b>94</b>
1"	<b>90</b>
3/4"	<b>89</b>
1/2"	<b>82</b>
3/8"	<b>77</b>
No. 4	<b>57</b>
No. 10	<b>40</b>
No. 16	<b>33</b>
No. 40	<b>28</b>
No. 50	<b>27</b>
No. 100	<b>20</b>
No. 200	<b>13</b>

Liquid Limit 18  
 Plastic Index NP  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 78  
 Cover Stabilometer Expansion Pressure  
 Thickness 4.3  
 Sand Equivalent 24  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 2,907  
 pH Factor 8.4  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-363-07, C-434-07  
 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White & Marshall Station: "P" 379+80 Route: SR 160  
 Location from C/L (ft) Lt. 90 Rt. \_\_\_\_\_  
 Sample No.: 29 (B8) County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: \_\_\_\_\_  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--		100
2--		
4--	Sand, Silt, Gravel	
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	<b>100</b>
1"	<b>99</b>
3/4"	<b>92</b>
1/2"	<b>83</b>
3/8"	<b>79</b>
No. 4	<b>59</b>
No. 10	<b>45</b>
No. 16	<b>40</b>
No. 40	<b>35</b>
No. 50	<b>33</b>
No. 100	<b>26</b>
No. 200	<b>19</b>

Liquid Limit 18  
 Plastic Index 2  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 81  
 Cover Stabilometer Expansion Pressure  
 Thickness 3.2  
 Sand Equivalent 18  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 268  
 pH Factor 7.8  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-364-07, C-435-07  
 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White & Marshall Station: "P" 379+80 Route: SR 160  
 Location from C/L (ft): Lt. 90 Rt. \_\_\_\_\_  
 Sample No.: 29A County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: CEMENTED LAYER FROM 5 FEET TO 7 FEET.  
INCREASED PSI TO 300 AND PENETRATED LAYER.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--		100
2--		
4--		
6--	Silt, Sand, Gravel	
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	
3/4"	<b>100</b>
1/2"	<b>93</b>
3/8"	<b>87</b>
No. 4	<b>62</b>
No. 10	<b>43</b>
No. 16	<b>37</b>
No. 40	<b>29</b>
No. 50	<b>26</b>
No. 100	<b>20</b>
No. 200	<b>15</b>

Liquid Limit	<u>21</u>
Plastic Index	<u>3</u>
Specific Gravity	_____
Resistance Value	<u>81</u>
Cover	Stabilometer Expansion Pressure
Thickness	<u>3.2</u>
Sand Equivalent	<u>17</u>
Natural Moisture, %	_____
Resistivity	<u>548</u>
pH Factor	<u>8.1</u>
HRB Classification	_____

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-394-07, C-465-07  
 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White & Marshall Station: "P" 380+00 Route: SR 160  
 Location from C/L (ft): \_\_\_\_\_ Lt. \_\_\_\_\_ Rt. 65  
 Sample No.: 55 (B9) County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: CALICHE LAYER AT 4 FEET, COULD NOT PENETRATE.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--		100
2--	Silt, Sand, Gravel	2--
4--		4--
6--		6--
8--		8--
10--		10--
12--		12--
14--		14--
16--		16--
18--		18--
20--		20--

Sieve Size	% Passing
3"	
2"	<b>100</b>
1.5"	<b>97</b>
1"	<b>97</b>
3/4"	<b>88</b>
1/2"	<b>81</b>
3/8"	<b>76</b>
No. 4	<b>52</b>
No. 10	<b>38</b>
No. 16	<b>33</b>
No. 40	<b>28</b>
No. 50	<b>26</b>
No. 100	<b>20</b>
No. 200	<b>12</b>

Liquid Limit 22  
 Plastic Index 5  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 78  
 Cover Stabilometer Expansion Pressure  
 Thickness 4.3  
 Sand Equivalent 17  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 4,255  
 pH Factor 8.5  
 HRB Classification \_\_\_\_\_

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

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-355-07, C-426-07  
 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White & Marshall Station: "P" 385+00 Route: SR 160  
 Location from C/L (ft): \_\_\_\_\_ Lt. \_\_\_\_\_ Rt. 30  
 Sample No.: 23 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: \_\_\_\_\_  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--		100
2--		
4--		
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	<b>100</b>
1.5"	<b>97</b>
1"	<b>93</b>
3/4"	<b>82</b>
1/2"	<b>64</b>
3/8"	<b>57</b>
No. 4	<b>39</b>
No. 10	<b>28</b>
No. 16	<b>25</b>
No. 40	<b>21</b>
No. 50	<b>19</b>
No. 100	<b>13</b>
No. 200	<b>7</b>

Liquid Limit 16  
 Plastic Index NP  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 83  
 Cover \_\_\_\_\_  
 Thickness 2.5  
 Sand Equivalent 25  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 3,906  
 pH Factor 8.4  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-356-07, C-427-07  
 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White & Marshall Station: "P" 385+00 Route: SR 160  
 Location from C/L (ft): \_\_\_\_\_ Lt. \_\_\_\_\_ Rt. 30  
 Sample No.: 23A County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: COULD NOT PENETRATE CEMENTED LAYER AT 7 FEET.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--		100
2--		
4--		
6--	← Silt, Sand, Gravel	
8--	←	
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	100
1.5"	97
1"	90
3/4"	87
1/2"	75
3/8"	57
No. 4	33
No. 10	22
No. 16	19
No. 40	17
No. 50	15
No. 100	11
No. 200	7

Liquid Limit 19  
 Plastic Index 2  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 78  
 Cover Stabilometer Expansion Pressure  
 Thickness 4.3  
 Sand Equivalent 24  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 3,497  
 pH Factor 8.4  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-361-07, C-432-07  
 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White & Marshall Station: "P" 389+50 Route: SR 160  
 Location from C/L (ft): \_\_\_\_\_ Lt. 28 Rt. \_\_\_\_\_  
 Sample No.: 28 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: ROUGH DRILLING FROM 4.5 FEET TO 5 FEET.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--	← Fill	100
2--	←	
4--	← Silt, Sand, Gravel	
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	<b>100</b>
1.5"	<b>98</b>
1"	<b>98</b>
3/4"	<b>89</b>
1/2"	<b>80</b>
3/8"	<b>73</b>
No. 4	<b>56</b>
No. 10	<b>44</b>
No. 16	<b>40</b>
No. 40	<b>36</b>
No. 50	<b>34</b>
No. 100	<b>26</b>
No. 200	<b>14</b>

Liquid Limit 17  
 Plastic Index NP  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 80  
 Cover Stabilometer Expansion Pressure  
 Thickness 3.6  
 Sand Equivalent 20  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 3,356  
 pH Factor 8.4  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-396-07, C-467-07  
 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White & Marshall Station: "P" 391+20 Route: SR 160  
 Location from C/L (ft): Lt. 90 Rt. \_\_\_\_\_  
 Sample No.: 56A (B10) County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: CEMENTED LAYER FROM 5 FEET TO 8.5 FEET, REFUSAL AT 8.5 FEET.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--		100
2--		
4--		
6--	Cemented Layer	
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	<b>100</b>
3/4"	<b>96</b>
1/2"	<b>92</b>
3/8"	<b>83</b>
No. 4	<b>59</b>
No. 10	<b>38</b>
No. 16	<b>31</b>
No. 40	<b>24</b>
No. 50	<b>22</b>
No. 100	<b>16</b>
No. 200	<b>11</b>

Liquid Limit 19  
 Plastic Index NP  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 82  
 Cover Stabilometer Expansion Pressure  
 Thickness 2.9  
 Sand Equivalent 27  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 116  
 pH Factor 8.0  
 HRB Classification \_\_\_\_\_

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



# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-395-07, C-466-07  
 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White & Marshall Station: "P" 391+20 Route: SR 160  
 Location from C/L (ft): Lt. 90 Rt. \_\_\_\_\_  
 Sample No.: 56 (B10) County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: COBBLES FROM 3 FEET TO 4.5 FEET.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--		100
2--	Silt, Sand, Gravel	2--
4--		4--
6--		6--
8--		8--
10--		10--
12--		12--
14--		14--
16--		16--
18--		18--
20--		20--

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	
3/4"	100
1/2"	85
3/8"	65
No. 4	46
No. 10	33
No. 16	29
No. 40	24
No. 50	23
No. 100	17
No. 200	11

Liquid Limit 15  
 Plastic Index NP  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 82  
 Cover Stabilometer Expansion Pressure  
 Thickness 2.9  
 Sand Equivalent 22  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 1,431  
 pH Factor 8.2  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-397-07, C-408-07  
 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Station: "P" 391+20 Route: SR 160  
 Samplers: Ford, White & Marshall  
 Location from C/L (ft): \_\_\_\_\_ Lt. \_\_\_\_\_ Rt. 30  
 Sample No.: 57 (B11) County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: HIT NATIVE MATERIAL FROM 4 FEET TO 7 FEET, CEMENTED LAYER AT 7 FEET THAT COULD NOT PENETRATE.  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--		100
2--	← Fill	
4--	←	
6--	← Silt, Sand, Gravel	
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	<b>100</b>
1"	<b>95</b>
3/4"	<b>93</b>
1/2"	<b>79</b>
3/8"	<b>72</b>
No. 4	<b>59</b>
No. 10	<b>45</b>
No. 16	<b>41</b>
No. 40	<b>35</b>
No. 50	<b>33</b>
No. 100	<b>24</b>
No. 200	<b>15</b>

Liquid Limit 16  
 Plastic Index NP  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 82  
 Cover Stabilometer Expansion Pressure  
 Thickness 2.9  
 Sand Equivalent 21  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 4,545  
 pH Factor 8.4  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-357-07, C-428-07  
 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White & Marshall Station: "P" 395+00 Route: SR 160  
 Location from C/L (ft): \_\_\_\_\_ Lt. \_\_\_\_\_ Rt. 30  
 Sample No.: 24 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: \_\_\_\_\_  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--		100
2--		
4--	Silt, Sand, Gravel	
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	<b>100</b>
1"	<b>99</b>
3/4"	<b>96</b>
1/2"	<b>88</b>
3/8"	<b>81</b>
No. 4	<b>63</b>
No. 10	<b>51</b>
No. 16	<b>46</b>
No. 40	<b>40</b>
No. 50	<b>38</b>
No. 100	<b>28</b>
No. 200	<b>18</b>

Liquid Limit 20  
 Plastic Index 3  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 77  
 Cover Stabilometer Expansion Pressure  
 Thickness 4.6  
 Sand Equivalent 19  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 1,034  
 pH Factor 8.2  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-360-07, C-431-07  
 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Samplers: Ford, White & Marshall Station: "P" 400+00 Route: SR 160  
 Location from C/L (ft): Lt. 28.5 Rt. \_\_\_\_\_  
 Sample No.: 27 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: \_\_\_\_\_  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--		100
2--		
4--	Silt, Sand, Gravel	
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	<b>100</b>
1"	<b>87</b>
3/4"	<b>84</b>
1/2"	<b>68</b>
3/8"	<b>53</b>
No. 4	<b>35</b>
No. 10	<b>23</b>
No. 16	<b>20</b>
No. 40	<b>16</b>
No. 50	<b>14</b>
No. 100	<b>10</b>
No. 200	<b>6</b>

Liquid Limit 18  
 Plastic Index NP  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 83  
 Cover Stabilometer Expansion Pressure  
 Thickness 2.5  
 Sand Equivalent 25  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 5,102  
 pH Factor 8.5  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-358-07, C-429-07  
 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Station: "P" 405+00 Route: SR 160  
 Samplers: Ford, White & Marshall Location from C/L (ft): \_\_\_\_\_ Lt. \_\_\_\_\_ Rt. 30  
 Sample No.: 25 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: \_\_\_\_\_  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--		100
2--		
4--	Silt, Sand, Gravel	
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	100
1.5"	97
1"	90
3/4"	80
1/2"	62
3/8"	56
No. 4	35
No. 10	22
No. 16	18
No. 40	14
No. 50	13
No. 100	8
No. 200	4

Liquid Limit 17  
 Plastic Index NP  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 85  
 Cover Stabilometer Expansion Pressure \_\_\_\_\_  
 Thickness 1.8  
 Sand Equivalent 36  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 5,476  
 pH Factor 8.6  
 HRB Classification \_\_\_\_\_

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

# LINE SAMPLING DATA

Date Reported: 11/02/07  
 No.: Soils 09-07, RV-359-07, C-430-07  
 Job Description: SPSR-0160 (013)  
 Date Rec'd: 09/20/07  
 Station: "P" 409+00 Route: SR 160  
 Samplers: Ford, White & Marshall  
 Location from C/L (ft): Lt. 32 Rt. \_\_\_\_\_  
 Sample No.: 26 County: CLARK

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) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: \_\_\_\_\_  
 Submitted By: D. WHITE  
 Title: \_\_\_\_\_

Depth (ft)	Boring Description	PSI
0--		100
2--		
4--	Silt, Sand, Gravel	
6--		
8--		
10--		
12--		
14--		
16--		
18--		
20--		

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	<b>100</b>
3/4"	<b>92</b>
1/2"	<b>79</b>
3/8"	<b>68</b>
No. 4	<b>44</b>
No. 10	<b>30</b>
No. 16	<b>25</b>
No. 40	<b>21</b>
No. 50	<b>19</b>
No. 100	<b>14</b>
No. 200	<b>9</b>

Liquid Limit 19  
 Plastic Index 1  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 79  
 Cover Stabilometer Expansion Pressure  
 Thickness 3.9  
 Sand Equivalent 25  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity 4,762  
 pH Factor 8.6  
 HRB Classification \_\_\_\_\_

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



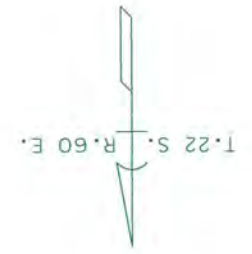
\* - LIMITS OF PAVING

▨ - LIMITS OF PLANTMIXING MISCELLANEOUS AREAS

# PRELIMINARY

SUBJECT TO REVISION  
7/12/2008 10:44:53 AM

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	SPSR-0160(013)	CLARK	5



BEGIN PROJECT SPSR-0160(013)

"P" 165+62.79 P.O.T.

"P" 165+63.05  
"P" 165+88.05

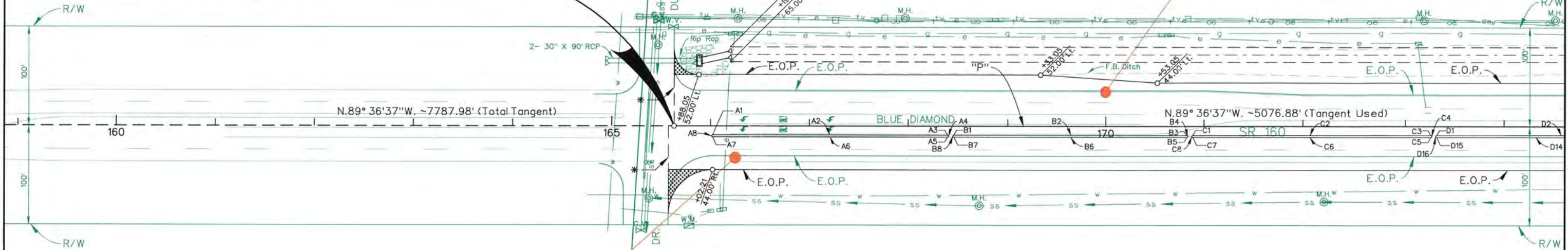
CONSTRUCT SPANDREL AT DURANGO DR. LT.  
(PLANTMIX MISCELLANEOUS AREAS)

"P" 165+88.53

CONSTRUCT TYPE 4 MANHOLE 66.07' LT. (COVER ELEV.=2747.24', H=5'). CONNECT TO EXISTING 2-30" X 90' RCP. INSTALL 2 - 30" X 30' RCP (LIE=2742.34', UIE=2744.85') TO "P" 166+19.86, 72.50' LT. INSTALL METAL END SECTIONS (SAFETY TYPE) AT INLET.

"P" 166+19.86  
"P" 181+47.14

CONSTRUCT RIPRAP LINED CHANNEL,  
CHANNEL CENTER LINE = 72.50' LT. SEE SHEET SD1 FOR DETAILS.



# 1 ("P" 166+25, LT. 32' )

"P" 165+57.21  
"P" 166+02.21

CONSTRUCT SPANDREL AT DURANGO DR. RT.  
(PLANTMIX MISCELLANEOUS AREAS)

"P" 166+01.21  
"P" 168+40.43

CONSTRUCT MEDIAN ISLAND "A"  
(SEE SHEET 22 FOR GEOMETRICS)

"P" 168+44.43  
"P" 170+83.65

CONSTRUCT MEDIAN ISLAND "B"  
(SEE SHEET 22 FOR GEOMETRICS)

"P" 170+87.65  
"P" 173+26.87

CONSTRUCT MEDIAN ISLAND "C"  
(SEE SHEET 22 FOR GEOMETRICS)

"P" 173+30.87  
"P" 176+91.64

CONSTRUCT MEDIAN ISLAND "D"  
(SEE SHEET 22 FOR GEOMETRICS)


	+00	+20	
D.N. LT.	←	←	WARP TO TOP OF EXISTING 25' F.B.D.
D.N. RT.	←	←	
LT. EXCAVATION	yd <sup>3</sup>	←	
LT. BORROW	yd <sup>3</sup>	←	SEE NEXT SHEET
LT. EMBANKMENT	yd <sup>3</sup>	←	
RT. EXCAVATION	yd <sup>3</sup>	←	
RT. BORROW	yd <sup>3</sup>	←	SEE NEXT SHEET
RT. EMBANKMENT	yd <sup>3</sup>	←	



STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	SPSR-0160(013)	CLARK	6

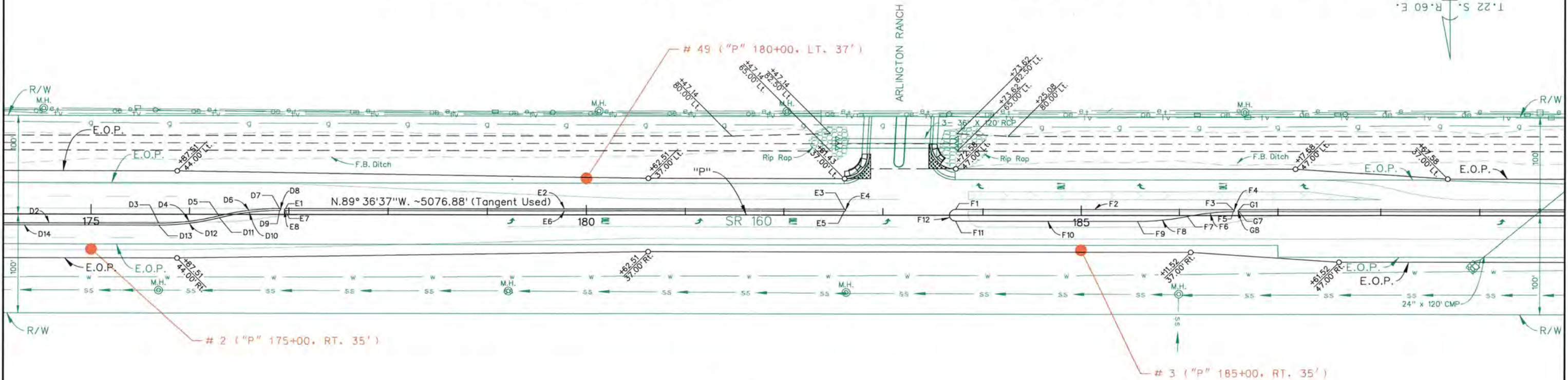
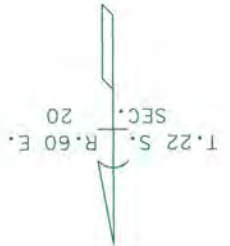
# PRELIMINARY

SUBJECT TO REVISION  
7/12/2008 10:44:56 AM

 - LIMITS OF PLANTMIXING MISCELLANEOUS AREAS

- "P" 181+47.14  
"P" 182+47.14 CONSTRUCT RIPRAP LINED CHANNEL,  
CHANNEL CENTER LINE = 72.50' LT. SEE SHEET SD1 FOR DETAILS.
- "P" 182+61.11  
"P" 182+86.43 REMOVE EXISTING SIDEWALK, CURB & GUTTER LT.
- "P" 182+61.43  
"P" 182+86.43 CONSTRUCT NEW TYPE 5 CURB & GUTTER WITH 5' SIDEWALK (LT.)  
(CONSTRUCT TYPE D, ALT 1 CURB RAMP 46.00' LT.  
"P" 182+77.33) MATCH EXISTING CURB, GUTTER & SIDEWALK.
- "P" 182+61.43  
"P" 182+87.43 CONSTRUCT SPANDREL AT ARLINGTON RANCH LT.  
(PLANTMIX MISCELLANEOUS AREAS)
- "P" 183+46.58  
"P" 183+72.58 CONSTRUCT SPANDREL AT ARLINGTON RANCH LT.  
(PLANTMIX MISCELLANEOUS AREAS)
- "P" 183+47.58  
"P" 183+72.00 REMOVE EXISTING SIDEWALK, CURB & GUTTER LT.

- "P" 183+47.58  
"P" 183+62.80 CONSTRUCT NEW TYPE 5 CURB & GUTTER WITH 5' SIDEWALK (LT.)  
(CONSTRUCT MODIFIED TYPE D, ALT 1 CURB RAMP 62.00' LT.  
"P" 183+51.79, SEE SHEET SD-?) MATCH EXISTING CURB, GUTTER &  
SIDEWALK.
- "P" 183+73.62  
"P" 184+25.08 CONSTRUCT RIPRAP LINED CHANNEL,  
CHANNEL CENTER LINE = 72.50' LT. SEE SHEET SD1 FOR DETAILS.
- "P" 184+25.08  
"P" 184+66.83 CONSTRUCT RIPRAP LINED CHANNEL,  
CHANNEL CENTER LINE = 72.50' LT. SEE SHEET SD1 FOR DETAILS.
- "P" 184+66.83  
"P" 191+58.52 CONSTRUCT RIPRAP LINED CHANNEL,  
CHANNEL CENTER LINE = 72.50' LT. SEE SHEET SD1 FOR DETAILS.
- "P" 189+55.48 EXISTING 24" X 120' CMP. REMOVE EXISTING END SECTIONS LT. AND  
RT. REMOVE CMP SECTION 10' LT. AND 10' RT. BACKFILL CULVERT  
WITH SLURRY CEMENT BACKFILL (TYPE A).



- "P" 176+95.64  
"P" 182+62.43 CONSTRUCT MEDIAN ISLAND "E"  
(SEE SHEET 22 FOR GEOMETRICS)
- "P" 183+66.58  
"P" 186+55.52 CONSTRUCT MEDIAN ISLAND "F"  
(SEE SHEET 22 FOR GEOMETRICS)
- "P" 186+59.52  
"P" 192+45.52 CONSTRUCT MEDIAN ISLAND "G"  
(SEE SHEET 22 FOR GEOMETRICS)

D.N. LT.	WARP TO TOP OF EXISTING 25' F.B.D.			
D.N. RT.	50:1 FOR 1.0' THEN GRADE TO DRAIN			
LT. EXCAVATION	yd <sup>3</sup>	10755		
LT. BORROW	yd <sup>3</sup>	0		
LT. EMBANKMENT	yd <sup>3</sup>	924		
RT. EXCAVATION	yd <sup>3</sup>	15571		
RT. BORROW	yd <sup>3</sup>	0		
RT. EMBANKMENT	yd <sup>3</sup>	606		



STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	SPSR-0160(013)	CLARK	7

# PRELIMINARY

SUBJECT TO REVISION  
7/12/2008 10:44:58 AM

 - LIMITS OF PLANTMIXING MISCELLANEOUS AREAS

"P" 191+58.52  
"P" 192+58.52  
CONSTRUCT RIPRAP LINED CHANNEL,  
CHANNEL CENTER LINE = 72.50' LT. SEE SHEET SD1 FOR DETAILS.

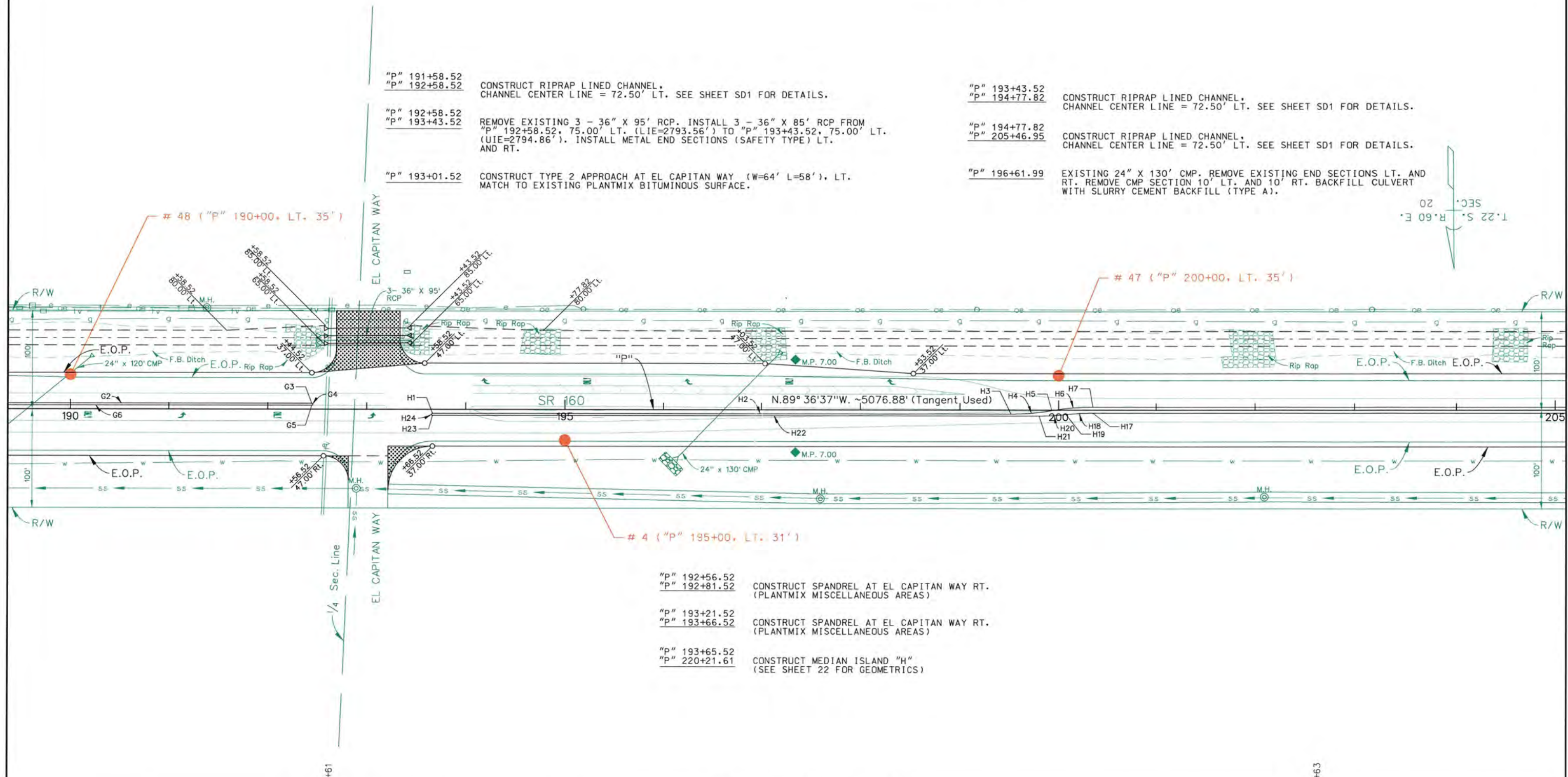
"P" 192+58.52  
"P" 193+43.52  
REMOVE EXISTING 3 - 36" X 95' RCP. INSTALL 3 - 36" X 85' RCP FROM  
"P" 192+58.52, 75.00' LT. (LIE=2793.56') TO "P" 193+43.52, 75.00' LT.  
(UIE=2794.86'). INSTALL METAL END SECTIONS (SAFETY TYPE) LT.  
AND RT.

"P" 193+01.52  
CONSTRUCT TYPE 2 APPROACH AT EL CAPITAN WAY (W=64' L=58'). LT.  
MATCH TO EXISTING PLANTMIX BITUMINOUS SURFACE.

"P" 193+43.52  
"P" 194+77.82  
CONSTRUCT RIPRAP LINED CHANNEL,  
CHANNEL CENTER LINE = 72.50' LT. SEE SHEET SD1 FOR DETAILS.

"P" 194+77.82  
"P" 205+46.95  
CONSTRUCT RIPRAP LINED CHANNEL,  
CHANNEL CENTER LINE = 72.50' LT. SEE SHEET SD1 FOR DETAILS.

"P" 196+61.99  
EXISTING 24" X 130' CMP. REMOVE EXISTING END SECTIONS LT. AND  
RT. REMOVE CMP SECTION 10' LT. AND 10' RT. BACKFILL CULVERT  
WITH SLURRY CEMENT BACKFILL (TYPE A).



"P" 192+56.52  
"P" 192+81.52  
CONSTRUCT SPANDREL AT EL CAPITAN WAY RT.  
(PLANTMIX MISCELLANEOUS AREAS)

"P" 193+21.52  
"P" 193+66.52  
CONSTRUCT SPANDREL AT EL CAPITAN WAY RT.  
(PLANTMIX MISCELLANEOUS AREAS)

"P" 193+65.52  
"P" 220+21.61  
CONSTRUCT MEDIAN ISLAND "H"  
(SEE SHEET 22 FOR GEOMETRICS)

D.N. LT. ————— WARP TO TOP OF EXISTING 25' F.B.D. —————

D.N. RT. —————

LT. EXCAVATION yd<sup>3</sup> —————  
LT. BORROW yd<sup>3</sup> —————  
LT. EMBANKMENT yd<sup>3</sup> —————  
SEE PREVIOUS SHEET

RT. EXCAVATION yd<sup>3</sup> —————  
RT. BORROW yd<sup>3</sup> —————  
RT. EMBANKMENT yd<sup>3</sup> —————  
SEE PREVIOUS SHEET

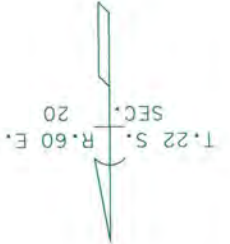


STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	SPSR-0160(013)	CLARK	8

# PRELIMINARY

SUBJECT TO REVISION  
7/12/2008 10:45:01 AM

 - LIMITS OF PLANTMIXING MISCELLANEOUS AREAS



"P" 205+46.95  
"P" 206+46.95  
CONSTRUCT RIPRAP LINED CHANNEL,  
CHANNEL CENTER LINE = 72.50' LT. SEE SHEET SD1 FOR DETAILS.

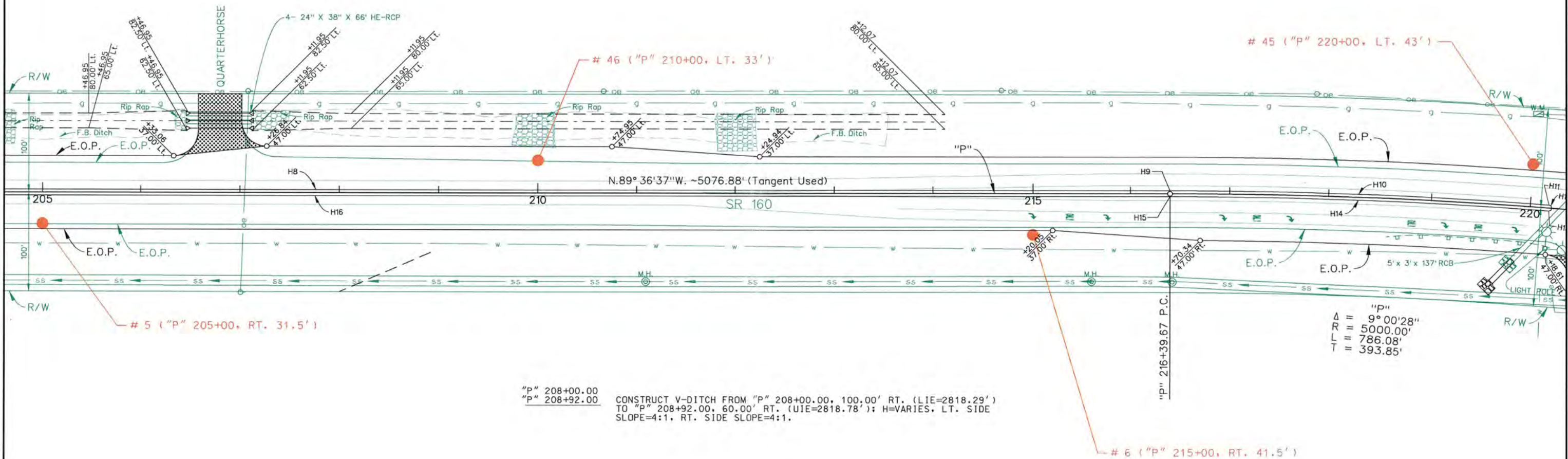
"P" 206+46.95  
"P" 207+11.95  
REMOVE EXISTING 4 - 24" X 38" X 66' HE-RCP. INSTALL 3 - 36" X 65'  
RCP FROM "P" 206+46.95, 72.50' LT. (LIE=2813.50') TO "P" 207+11.95,  
72.50' LT. (LIE=2814.14'). INSTALL METAL END SECTIONS (SAFETY  
TYPE) LT. AND RT.

"P" 206+79.95  
CONSTRUCT TYPE 2 APPROACH AT QUARTERHORSE (W=44' L=58'), LT.  
MATCH TO EXISTING PLANTMIX BITUMINOUS SURFACE.

"P" 207+11.95  
"P" 208+11.95  
CONSTRUCT RIPRAP LINED CHANNEL,  
CHANNEL CENTER LINE = 72.50' LT. SEE SHEET SD1 FOR DETAILS.

"P" 208+11.95  
"P" 213+12.07  
CONSTRUCT RIPRAP LINED CHANNEL,  
CHANNEL CENTER LINE = 72.50' LT. SEE SHEET SD1 FOR DETAILS.

"P" 213+12.07  
"P" 214+12.07  
CONSTRUCT RIPRAP LINED CHANNEL,  
CHANNEL CENTER LINE = 72.50' LT. SEE SHEET SD1 FOR DETAILS.



"P" 208+00.00  
"P" 208+92.00  
CONSTRUCT V-DITCH FROM "P" 208+00.00, 100.00' RT. (LIE=2818.29')  
TO "P" 208+92.00, 60.00' RT. (LIE=2818.78'); H=VARIES, LT. SIDE  
SLOPE=4:1, RT. SIDE SLOPE=4:1.

D.N. LT. ————— WARP TO TOP OF EXISTING 25' F.B.D. —————

D.N. RT. ————— 6:1 F.S. —————

LT. EXCAVATION yd<sup>3</sup> —————  
LT. BORROW yd<sup>3</sup> —————  
LT. EMBANKMENT yd<sup>3</sup> —————  
SEE SHEET 6

RT. EXCAVATION yd<sup>3</sup> —————  
RT. BORROW yd<sup>3</sup> —————  
RT. EMBANKMENT yd<sup>3</sup> —————  
SEE SHEET 6





# PRELIMINARY

SUBJECT TO REVISION  
7/12/2008 10:45:03 AM

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	SPSR-0160(013)	CLARK	9

 - LIMITS OF PLANTMIXING MISCELLANEOUS AREAS

"P" 220+31.88 EXISTING 5' X 3' X 137' RCB. REMOVE EXISTING HEADWALLS LT. AND RT. EXTEND 17' LT. (UIE=2837.53') AND 31' RT. (LIE=2834.08'). (5' X 3' X 185' RCB). CONSTRUCT TYPE 1 HEADWALLS 0 DEGREE SKEW LT. AND RT. REMOVE EXISTING RIPRAP APRON AT OUTLET. CONSTRUCT CLASS 300 RIPRAP APRON AT OUTLET.

"P" 220+76.33  
"P" 220+94.97 CONSTRUCT DIKE FROM "P" 220+76.33, 69.96' LT. TO "P" 220+94.97, 93.21' LT. (LT. SIDE SLOPE=2:1, RT. SIDE SLOPE=2:1, W=3', H=3').

"P" 221+07.65 INSTALL CONDUIT FOR FUTURE SIGNAL (SEE SHEETS T1-T4)

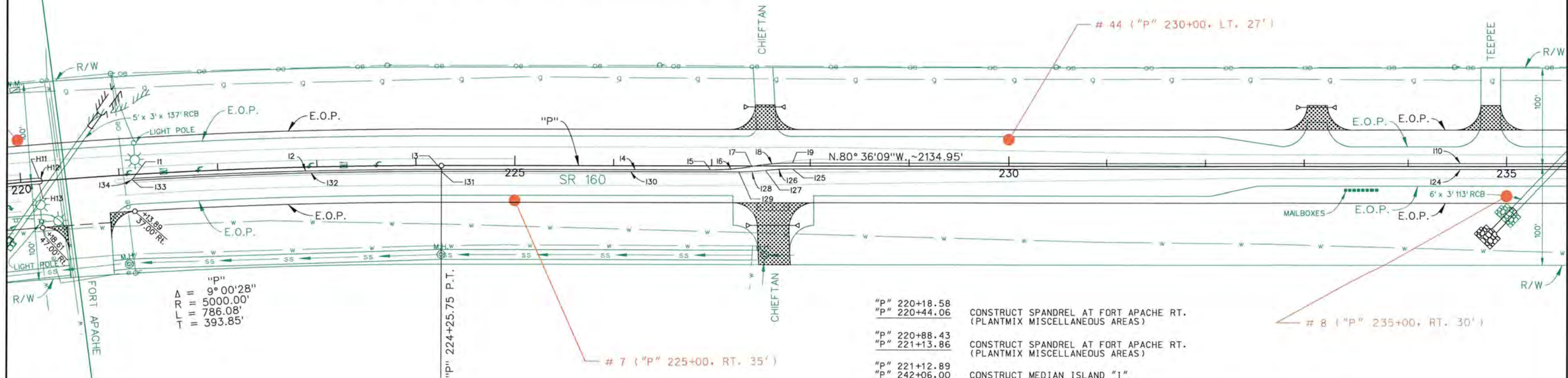
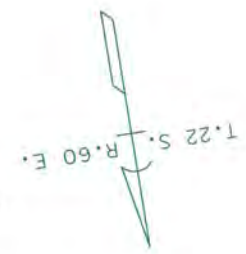
"P" 227+34.20  
"P" 227+73.20 INSTALL 18" X 39' HDPE FROM "P" 227+34.20, 60.00' LT. (LIE=2845.91') TO "P" 227+73.20, 60.00' LT. (UIE=2846.32'). INSTALL METAL END SECTIONS (SAFETY TYPE) LT. AND RT.

"P" 227+54.21 CONSTRUCT TYPE 2 APPROACH AT CHIEFTAN (W=20' L=25'), LT. GRADE TO RIGHT-OF-WAY.

"P" 232+93.41  
"P" 233+30.41 INSTALL 18" X 37' HDPE FROM "P" 232+93.41, 60.00' LT. (LIE=2852.85') TO "P" 233+30.41, 60.00' LT. (UIE=2853.42'). INSTALL METAL END SECTIONS (SAFETY TYPE) LT. AND RT.

"P" 233+12.91 CONSTRUCT TYPE 2 APPROACH (W=20' L=25'), LT.

"P" 234+83.90 CONSTRUCT TYPE 2 APPROACH AT TEEPEE (W=20' L=25'), LT. GRADE TO RIGHT-OF-WAY.



"P"  
= 9° 00' 28"  
= 5000.00'  
= 786.08'  
= 393.85'

"P"  
= 224+25.75 P.T.

# 7 ("P" 225+00, RT. 35')

"P" 220+18.58  
"P" 220+44.06 CONSTRUCT SPANDREL AT FORT APACHE RT. (PLANTMIX MISCELLANEOUS AREAS)

"P" 220+88.43  
"P" 221+13.86 CONSTRUCT SPANDREL AT FORT APACHE RT. (PLANTMIX MISCELLANEOUS AREAS)

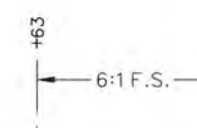
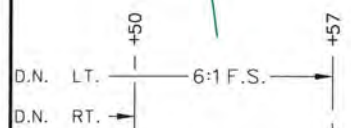
"P" 221+12.89  
"P" 242+06.00 CONSTRUCT MEDIAN ISLAND "1" (SEE SHEET 23 FOR GEOMETRICS)

"P" 227+36.65  
"P" 227+87.65 INSTALL 18" X 51' HDPE FROM "P" 227+36.65, 60.00' RT. (LIE=2845.63') TO "P" 227+87.65, 60.00' RT. (UIE=2846.17'). INSTALL METAL END SECTIONS (SAFETY TYPE) LT. AND RT.

"P" 227+64.23 CONSTRUCT TYPE 2 APPROACH AT CHIEFTAN (W=32' L=63'), RT. MATCH TO EXISTING PLANTMIX BITUMINOUS SURFACE.

"P" 233+56 +/- REMOVE EXISTING MAILBOXES AND POSTS, RT.

# 8 ("P" 235+00, RT. 30')



LT. EXCAVATION	yd <sup>3</sup>
LT. BORROW	yd <sup>3</sup>
LT. EMBANKMENT	yd <sup>3</sup>
RT. EXCAVATION	yd <sup>3</sup>
RT. BORROW	yd <sup>3</sup>
RT. EMBANKMENT	yd <sup>3</sup>

SEE SHEET 6


SEE SHEET 6



STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	SPSR-0160(013)	CLARK	10

# PRELIMINARY

SUBJECT TO REVISION  
7/12/2008 10:45:06 AM

 - LIMITS OF PLANTMIXING MISCELLANEOUS AREAS

"P" 235+49.92 EXISTING 6' X 3' X 113' RCB. REMOVE EXISTING HEADWALLS LT. AND RT. EXTEND 35' LT. (UIE=2855.06') AND 30' RT. (LIE=2852.13'). (6' X 3' X 178' RCB) CONSTRUCT TYPE 1 HEADWALLS 0 DEGREE SKEW LT. AND RT. REMOVE EXISTING RIPRAP APRON AT OUTLET. CONSTRUCT CLASS 300 RIPRAP APRON AT OUTLET.

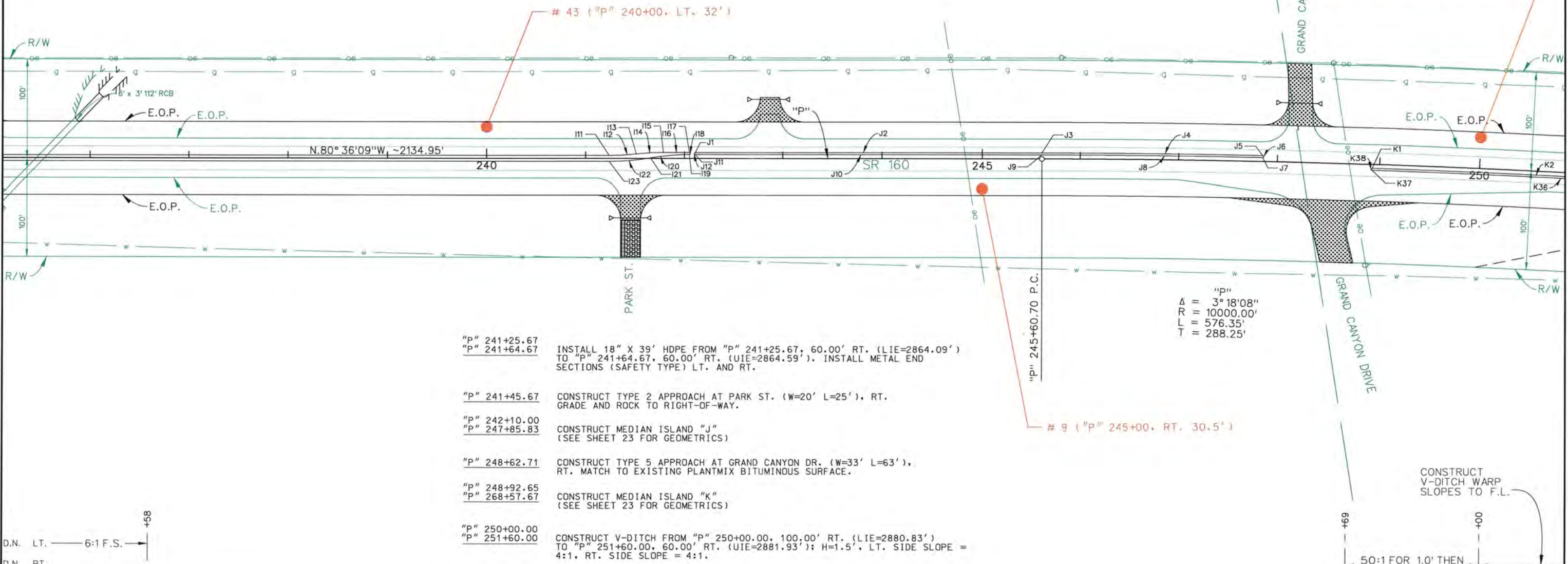
"P" 236+03.55  
"P" 236+24.34 CONSTRUCT DIKE FROM "P" 236+03.55, 70.92' LT. TO "P" 236+24.34, 92.54' LT. (LT. SIDE SLOPE=2:1, RT. SIDE SLOPE=2:1, W=3', H=3').

"P" 242+65.44  
"P" 243+05.44 INSTALL 18" X 40' HDPE FROM "P" 242+65.44, 60.00' LT. (LIE=2866.11') TO "P" 243+05.44, 60.00' LT. (UIE=2866.74'). INSTALL METAL END SECTIONS (SAFETY TYPE) LT. AND RT.

"P" 242+86.94 CONSTRUCT TYPE 2 APPROACH (W=20' L=25'), LT.

"P" 247+99.01  
"P" 248+41.75 INSTALL 18" X 43' HDPE FROM "P" 247+99.01, 60.00' LT. (LIE=2876.27') TO "P" 248+41.75, 60.00' LT. (UIE=2877.12'). INSTALL METAL END SECTIONS (SAFETY TYPE) LT. AND RT.

"P" 248+21.77 CONSTRUCT TYPE 2 APPROACH AT GRAND CANYON DR. (W=24' L=63'), LT. MATCH TO EXISTING PLANTMIX BITUMINOUS SURFACE.



"P" 241+25.67  
"P" 241+64.67 INSTALL 18" X 39' HDPE FROM "P" 241+25.67, 60.00' RT. (LIE=2864.09') TO "P" 241+64.67, 60.00' RT. (UIE=2864.59'). INSTALL METAL END SECTIONS (SAFETY TYPE) LT. AND RT.

"P" 241+45.67 CONSTRUCT TYPE 2 APPROACH AT PARK ST. (W=20' L=25'), RT. GRADE AND ROCK TO RIGHT-OF-WAY.

"P" 242+10.00  
"P" 247+85.83 CONSTRUCT MEDIAN ISLAND "J" (SEE SHEET 23 FOR GEOMETRICS)

"P" 248+62.71 CONSTRUCT TYPE 5 APPROACH AT GRAND CANYON DR. (W=33' L=63'), RT. MATCH TO EXISTING PLANTMIX BITUMINOUS SURFACE.

"P" 248+92.65  
"P" 268+57.67 CONSTRUCT MEDIAN ISLAND "K" (SEE SHEET 23 FOR GEOMETRICS)

"P" 250+00.00  
"P" 251+60.00 CONSTRUCT V-DITCH FROM "P" 250+00.00, 100.00' RT. (LIE=2880.83') TO "P" 251+60.00, 60.00' RT. (UIE=2881.93'); H=1.5', LT. SIDE SLOPE = 4:1, RT. SIDE SLOPE = 4:1.

D.N. LT. — 6:1 F.S. — +58

D.N. RT. — — — — —

LT. EXCAVATION	yd <sup>3</sup>	—	SEE SHEET 6
LT. BORROW	yd <sup>3</sup>	—	SEE SHEET 6
LT. EMBANKMENT	yd <sup>3</sup>	—	SEE SHEET 6
RT. EXCAVATION	yd <sup>3</sup>	—	SEE NEXT SHEET
RT. BORROW	yd <sup>3</sup>	—	SEE NEXT SHEET
RT. EMBANKMENT	yd <sup>3</sup>	—	SEE NEXT SHEET

CONSTRUCT V-DITCH WARP SLOPES TO F.L.

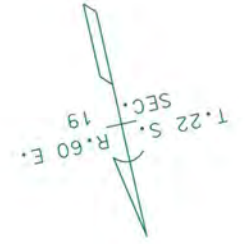
50:1 FOR 1.0' THEN GRADE TO DRAIN

 - LIMITS OF PLANTMIXING MISCELLANEOUS AREAS

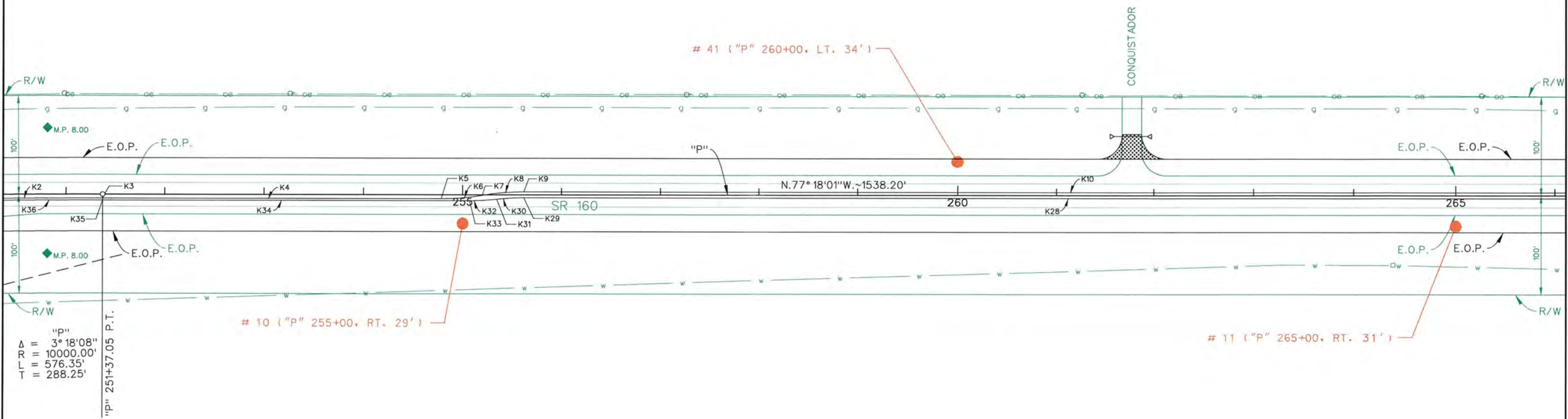
# PRELIMINARY

SUBJECT TO REVISION  
7/12/2008 10:45:09 AM

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	SPSR-0160(013)	CLARK	11



- "P" 261+56.17  
"P" 261+96.17    INSTALL 18" X 40' HDPE FROM "P" 261+56.17, 60.00' LT. (LIE=2898.70') TO "P" 261+96.17, 60.00' LT. (UIE=2899.34'). INSTALL METAL END SECTIONS (SAFETY TYPE) LT. AND RT.
- "P" 261+77.66    CONSTRUCT TYPE 2 APPROACH AT CONQUISTADOR (W=20' L=25'), LT. GRADE TO RIGHT-OF-WAY.



"P"  
Δ = 3° 18' 08"  
R = 10000.00'  
L = 576.35'  
T = 288.25'

"P" 251+37.05 P.T.



LT. EXCAVATION	yd <sup>3</sup>	28570
LT. BORROW	yd <sup>3</sup>	0
LT. EMBANKMENT	yd <sup>3</sup>	1439
RT. EXCAVATION	yd <sup>3</sup>	21453
RT. BORROW	yd <sup>3</sup>	0
RT. EMBANKMENT	yd <sup>3</sup>	5716



# PRELIMINARY

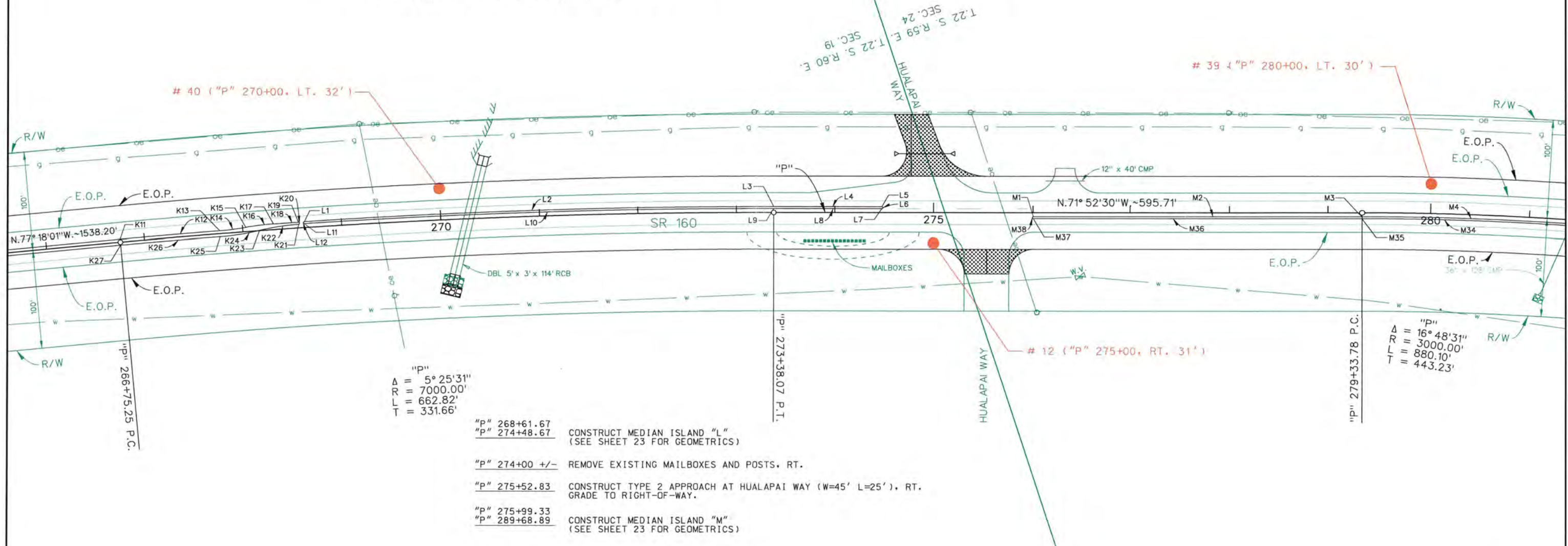
SUBJECT TO REVISION  
7/12/2008 10:45:11 AM

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	SPSR-0160(013)	CLARK	12

 - LIMITS OF PLANTMIXING MISCELLANEOUS AREAS

- "P" 270+28.40 EXISTING DOUBLE 5' X 3' X 114' RCB. REMOVE EXISTING HEADWALLS LT. AND RT. EXTEND 10' LT. (UIE=2911.09') AND 10' RT. (LIE=2907.58'). (DOUBLE 5' X 3' X 134' RCB) CONSTRUCT TYPE 1 HEADWALLS 0 DEGREE SKEW LT. AND RT. REMOVE EXISTING RIPRAP APRON AT OUTLET. CONSTRUCT CLASS 300 RIPRAP APRON AT OUTLET.
- "P" 274+61.85  
"P" 275+19.85 INSTALL 18" X 58' HDPE FROM "P" 274+61.85, 60.00' LT. (LIE=2920.10') TO "P" 275+19.85, 60.00' LT. (UIE=2921.10'). INSTALL METAL END SECTIONS (SAFETY TYPE) LT. AND RT.
- "P" 275+00.10 CONSTRUCT TYPE 2 APPROACH AT HUALAPAI WAY (W=34' L=63'), LT. MATCH TO EXISTING PLANTMIX BITUMINOUS SURFACE.

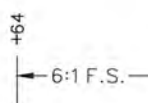
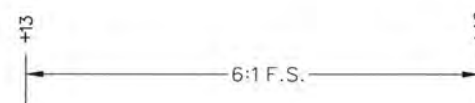
- "P" 275+97.83  
"P" 276+67.83 REMOVE EXISTING APPROACH LT.
- "P" 276+13.24  
"P" 276+53.20 REMOVE EXISTING 12' X 40' CMP 32.00' LT.
- "P" 276+32.83 REMOVE EXISTING APPROACH LT. REMOVE EXISTING 12' X 32' CMP LT.



"P"  
Δ = 5° 25' 31"  
R = 7000.00'  
L = 662.82'  
T = 331.66'

- "P" 268+61.67  
"P" 274+48.67 CONSTRUCT MEDIAN ISLAND "L" (SEE SHEET 23 FOR GEOMETRICS)
- "P" 274+00 +/- REMOVE EXISTING MAILBOXES AND POSTS, RT.
- "P" 275+52.83 CONSTRUCT TYPE 2 APPROACH AT HUALAPAI WAY (W=45' L=25'), RT. GRADE TO RIGHT-OF-WAY.
- "P" 275+99.33  
"P" 289+68.89 CONSTRUCT MEDIAN ISLAND "M" (SEE SHEET 23 FOR GEOMETRICS)

D.N. LT.  
D.N. RT.  
LT. EXCAVATION yd<sup>3</sup>  
LT. BORROW yd<sup>3</sup>  
LT. EMBANKMENT yd<sup>3</sup>  
RT. EXCAVATION yd<sup>3</sup>  
RT. BORROW yd<sup>3</sup>  
RT. EMBANKMENT yd<sup>3</sup>



SEE PREVIOUS SHEET  
SEE PREVIOUS SHEET

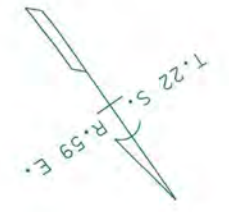


# PRELIMINARY

SUBJECT TO REVISION  
7/12/2008 10:45:13 AM

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	SPSR-0160(013)	CLARK	13

 - LIMITS OF PLANTMIXING MISCELLANEOUS AREAS

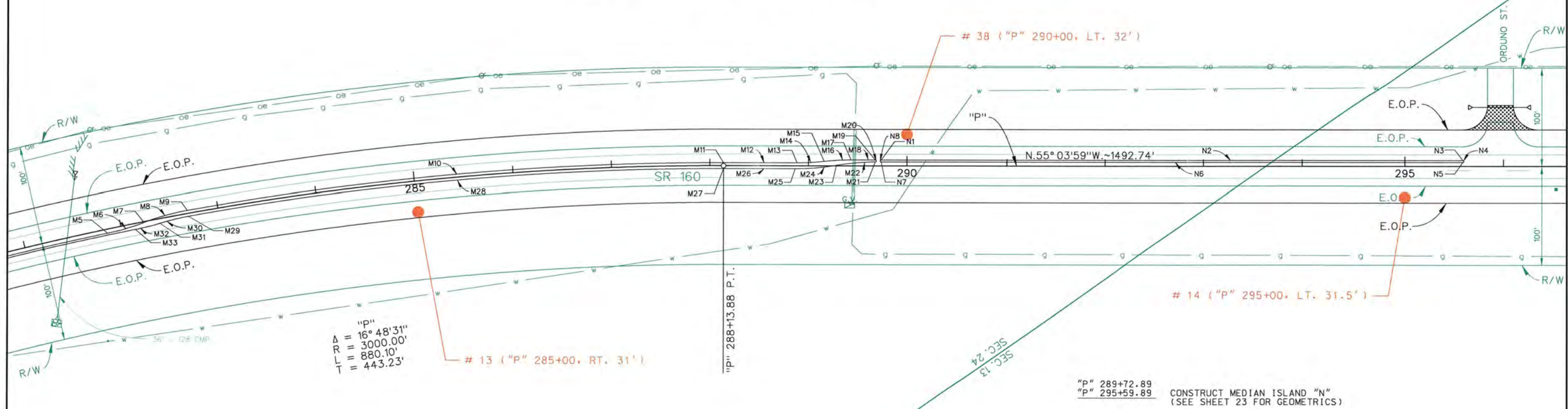


"P" 281+44.11 EXISTING 36" X 128' CMP. REMOVE EXISTING END SECTION LT. EXTEND 8' LT. (UIE=2932.71'). (36" X 136' CMP). INSTALL METAL END SECTION (SAFETY TYPE) LT.

"P" 295+61.89  
"P" 411+28.23 MILL RUMBLE STRIPS IN MEDIAN, LT. & RT. SEE SHEET ST9 FOR DETAIL

"P" 295+65.89  
"P" 296+25.89 INSTALL 18" X 60' HDPE FROM "P" 295+65.89, 60.00' LT. (LIE=2957.45'). TO "P" 295+25.89, 60.00' LT. (UIE=2957.94'). INSTALL METAL END SECTIONS (SAFETY TYPE) LT. AND RT.

"P" 295+96.89 CONSTRUCT TYPE 2 APPROACH AT ORDUÑO ST. (W=26' L=25'), LT. GRADE TO RIGHT-OF-WAY.



"P" 289+72.89  
"P" 295+59.89 CONSTRUCT MEDIAN ISLAND "N" (SEE SHEET 23 FOR GEOMETRICS)

D.N. LT.	6:1 F.S.
D.N. RT.	
LT. EXCAVATION yd <sup>3</sup>	SEE SHEET 11
LT. BORROW yd <sup>3</sup>	
LT. EMBANKMENT yd <sup>3</sup>	
RT. EXCAVATION yd <sup>3</sup>	SEE SHEET 11
RT. BORROW yd <sup>3</sup>	
RT. EMBANKMENT yd <sup>3</sup>	



# PRELIMINARY

SUBJECT TO REVISION  
7/12/2008 10:45:15 AM

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	SPSR-0160(013)	CLARK	14

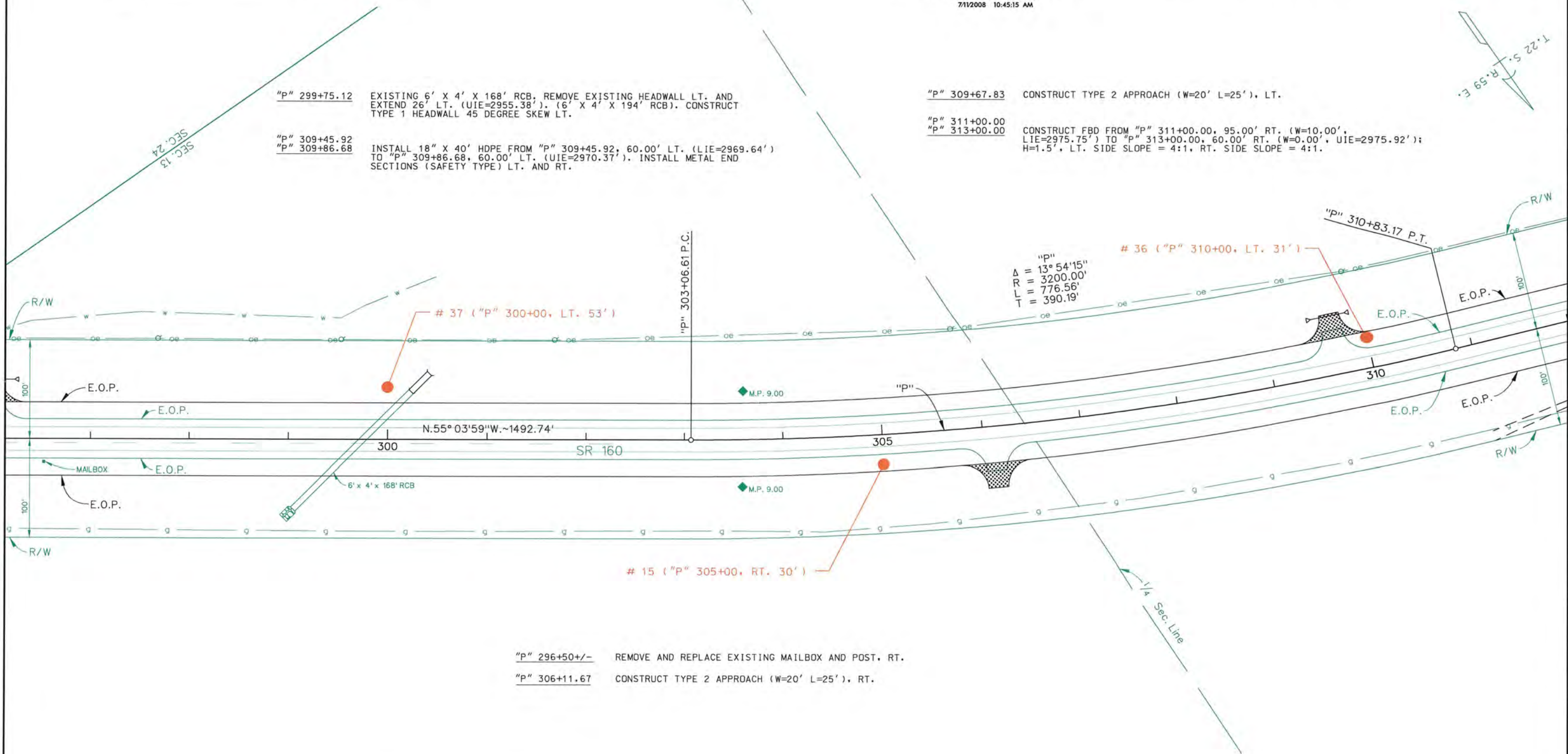
 - LIMITS OF PLANTMIXING MISCELLANEOUS AREAS

"P" 299+75.12 EXISTING 6' X 4' X 168' RCB. REMOVE EXISTING HEADWALL LT. AND EXTEND 26' LT. (UIE=2955.38'), (6' X 4' X 194' RCB). CONSTRUCT TYPE 1 HEADWALL 45 DEGREE SKEW LT.

"P" 309+45.92  
"P" 309+86.68 INSTALL 18" X 40' HDPE FROM "P" 309+45.92, 60.00' LT. (LIE=2969.64') TO "P" 309+86.68, 60.00' LT. (UIE=2970.37'). INSTALL METAL END SECTIONS (SAFETY TYPE) LT. AND RT.

"P" 309+67.83 CONSTRUCT TYPE 2 APPROACH (W=20' L=25'), LT.

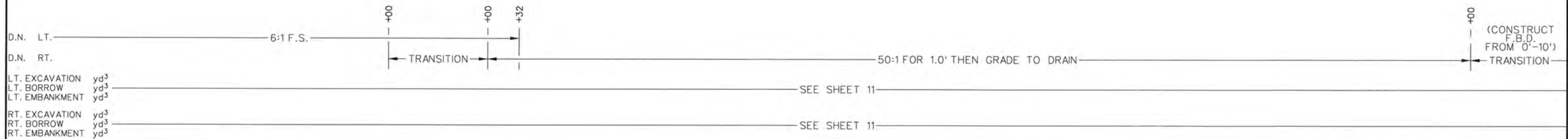
"P" 311+00.00  
"P" 313+00.00 CONSTRUCT FBD FROM "P" 311+00.00, 95.00' RT. (W=10.00', LIE=2975.75') TO "P" 313+00.00, 60.00' RT. (W=0.00', UIE=2975.92'); H=1.5', LT. SIDE SLOPE = 4:1, RT. SIDE SLOPE = 4:1.



# 15 ("P" 305+00, RT. 30')

"P" 296+50+/- REMOVE AND REPLACE EXISTING MAILBOX AND POST, RT.

"P" 306+11.67 CONSTRUCT TYPE 2 APPRDACH (W=20' L=25'), RT.



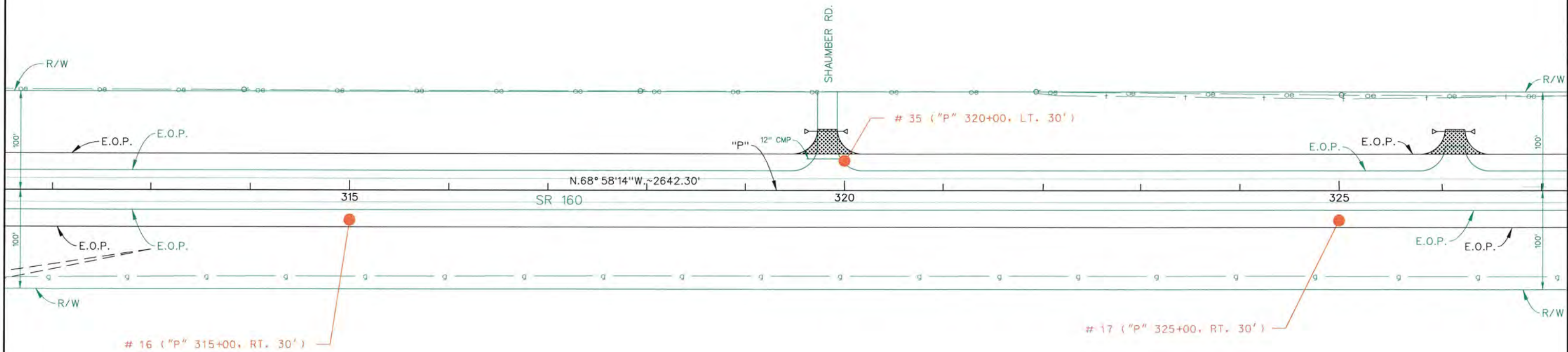
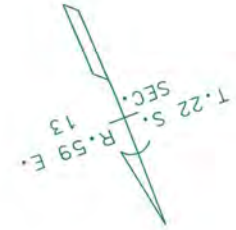
# PRELIMINARY

SUBJECT TO REVISION  
7/12/2008 10:45:17 AM

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	SPSR-0160(013)	CLARK	15

 - LIMITS OF PLANTMIXING MISCELLANEOUS AREAS

- "P" 319+61.33  
"P" 320+01.33 REMOVE EXISTING 12" X 40' CMP LT. INSTALL 18" X 40' HDPE FROM "P" 319+61.33, 60.00' LT. (LIE=2987.27') TO "P" 320+01.33, 60.00' LT. (UIE=2987.85'). INSTALL METAL END SECTIONS (SAFETY TYPE) LT. AND RT.
- "P" 319+82.83 CONSTRUCT TYPE 2 APPROACH AT SHAUMBER RD. (W=20' L=25'), LT. GRADE TO RIGHT-OF-WAY.
- "P" 325+91.33  
"P" 326+31.33 INSTALL 18" X 40' HDPE FROM "P" 325+91.33, 60.00' LT. (LIE=2998.16') TO "P" 326+31.33, 60.00' LT. (UIE=2998.80'). INSTALL METAL END SECTIONS (SAFETY TYPE) LT. AND RT.
- "P" 326+12.83 CONSTRUCT TYPE 2 APPROACH (W=20' L=25'), LT.



D.N. LT. (CONSTRUCT F.B.D. FROM 0'-10')

D.N. RT. — TRANSITION —

LT. EXCAVATION yd<sup>3</sup>

LT. BORROW yd<sup>3</sup>

LT. EMBANKMENT yd<sup>3</sup>

RT. EXCAVATION yd<sup>3</sup>

RT. BORROW yd<sup>3</sup>

RT. EMBANKMENT yd<sup>3</sup>

SEE SHEET 11

SEE SHEET 11



# PRELIMINARY

SUBJECT TO REVISION  
7/12/2008 10:45:19 AM

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	SPSR-0160(013)	CLARK	16

 - LIMITS OF PLANTMIXING MISCELLANEOUS AREAS

"P" 331+51.81  
"P" 333+02.04 CONSTRUCT V-DITCH FROM "P" 331+51.81, 60.00' LT. (LIE=3009.85') TO "P" 333+02.04, 68.91' LT. (UIE=3011.39'); H=VARIES, LT. SIDE SLOPE=4:1, RT. SIDE SLOPE=VARIES.

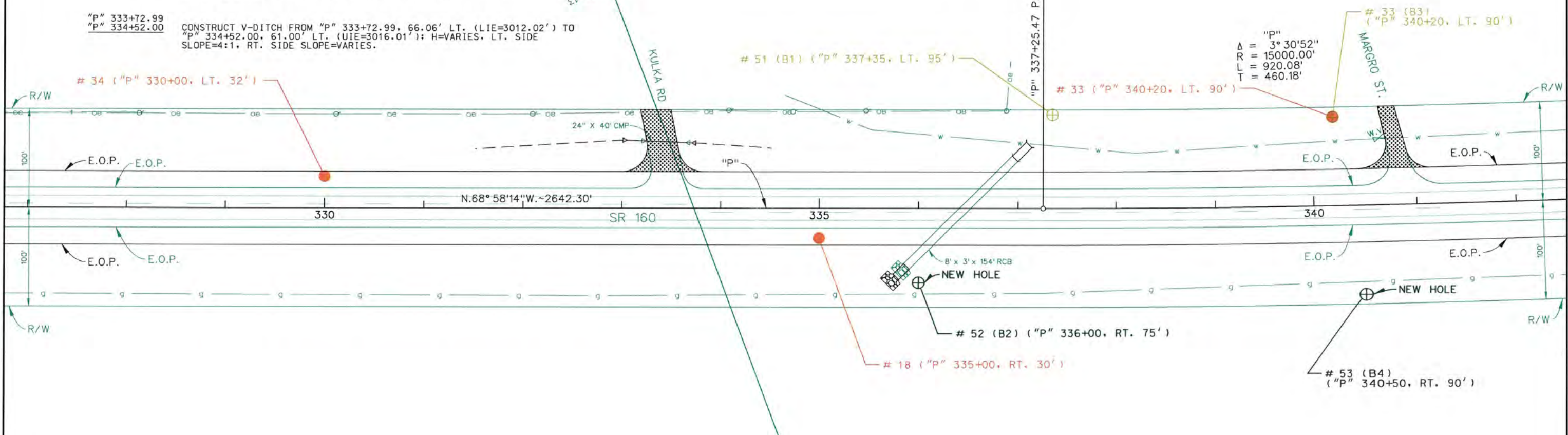
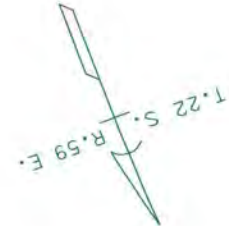
"P" 333+02.04  
"P" 333+72.99 INSTALL 24" X 71' HDPE FROM "P" 333+02.04, 68.91' LT. (LIE=3011.39') TO "P" 333+72.99, 66.06' LT. (UIE=3012.02'); INSTALL METAL END SECTIONS (SAFETY TYPE) LT. AND RT.

"P" 333+41.07 CONSTRUCT TYPE 2 APPROACH AT KULKA RD. (W=31' L=63'), LT. MATCH TO EXISTING PLANTMIX BITUMINOUS SURFACE.

"P" 333+72.99  
"P" 334+52.00 CONSTRUCT V-DITCH FROM "P" 333+72.99, 66.06' LT. (LIE=3012.02') TO "P" 334+52.00, 61.00' LT. (UIE=3016.01'); H=VARIES, LT. SIDE SLOPE=4:1, RT. SIDE SLOPE=VARIES.

"P" 336+46.36 EXISTING 8' X 3' X 154' RCB. REMOVE EXISTING HEADWALLS LT. AND RT. EXTEND 20' LT. (UIE=3019.49') AND 15' RT. (LIE=3015.63'). (8' X 3' X 189' RCB). CONSTRUCT TYPE 1 HEADWALLS 0 DEGREE SKEW LT. AND RT. REMOVE EXISTING RIPRAP APRON AT OUTLET. CONSTRUCT CLASS 300 RIPRAP APRON AT OUTLET.

"P" 340+79.52 CONSTRUCT TYPE 2 APPROACH AT MARGRO ST. (W=17' L=63'), LT. GRADE TO INTERSECT WITH 7:1 SLOPE.



D.N. LT.	6:1 F.S.	SEE NEXT SHEET
D.N. RT.		
LT. EXCAVATION yd <sup>3</sup>		SEE SHEET 11
LT. BORROW yd <sup>3</sup>		
LT. EMBANKMENT yd <sup>3</sup>		
RT. EXCAVATION yd <sup>3</sup>		SEE SHEET 11
RT. BORROW yd <sup>3</sup>		
RT. EMBANKMENT yd <sup>3</sup>		

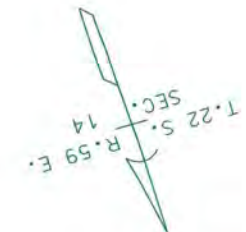


- LIMITS OF PLANTMIXING MISCELLANEOUS AREAS

# PRELIMINARY

SUBJECT TO REVISION  
7/12/2008 10:45:21 AM

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	SPSR-0160(013)	CLARK	17



"P" 347+29.72  
"P" 347+69.72  
INSTALL 18" X 40' HDPE FROM "P" 347+29.72, 60.00' LT. (LIE=3034.12') TO "P" 347+69.72, 60.00' LT. (UIE=3034.48'). INSTALL METAL END SECTIONS (SAFETY TYPE) LT. AND RT.

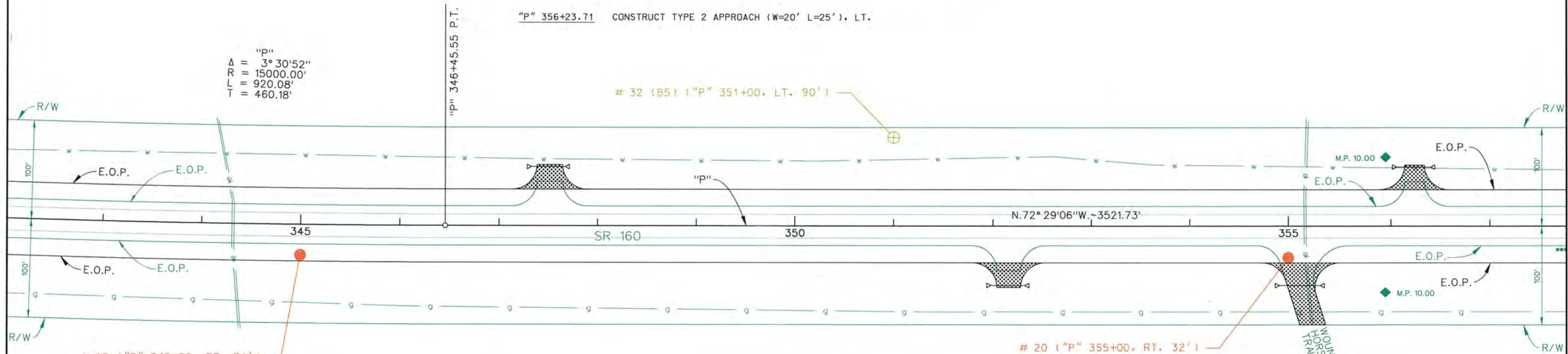
"P" 347+51.22 CONSTRUCT TYPE 2 APPROACH (W=26' L=25'), LT.

"P" 356+02.71  
"P" 356+42.71  
INSTALL 18" X 40' HDPE FROM "P" 356+02.71, 60.00' LT. (LIE=3048.91') TO "P" 356+42.71, 60.00' LT. (UIE=3049.78'). INSTALL METAL END SECTIONS (SAFETY TYPE) LT. AND RT.

"P" 356+23.71 CONSTRUCT TYPE 2 APPROACH (W=20' L=25'), LT.

"P"  
Δ = 3° 30' 52"  
R = 15000.00'  
L = 920.08'  
T = 460.18'

# 32 (B5) ("P" 351+00, LT, 90')



# 19 ("P" 345+00, RT, 31')

# 20 ("P" 355+00, RT, 32')

"P" 351+95.02  
"P" 352+35.02  
INSTALL 18" X 40' HDPE FROM "P" 351+95.02, 60.00' RT. (LIE=3040.55') TO "P" 352+35.02, 60.00' RT. (UIE=3041.24'). INSTALL METAL END SECTIONS (SAFETY TYPE) LT. AND RT.

"P" 352+16.02 CONSTRUCT TYPE 2 APPROACH (W=24' L=25'), RT.

"P" 354+88.04  
"P" 355+35.04  
INSTALL 18" X 47' HDPE FROM "P" 354+88.04, 60.00' RT. (LIE=3046.54') TO "P" 355+35.04, 60.00' RT. (UIE=3047.53'). INSTALL METAL END SECTIONS (SAFETY TYPE) LT. AND RT.

"P" 355+12.67 CONSTRUCT TYPE 2 APPROACH AT WOUNDED HORSE TRAIL (W=26' L=63'), RT. MATCH TO EXISTING PLANTMIX BITUMINOUS SURFACE.

D.N. LT. 6:1 F.S.

D.N. RT.

LT. EXCAVATION	yd <sup>3</sup>	21511
LT. BORROW	yd <sup>3</sup>	0
LT. EMBANKMENT	yd <sup>3</sup>	3039
RT. EXCAVATION	yd <sup>3</sup>	21252
RT. BORROW	yd <sup>3</sup>	0
RT. EMBANKMENT	yd <sup>3</sup>	4279



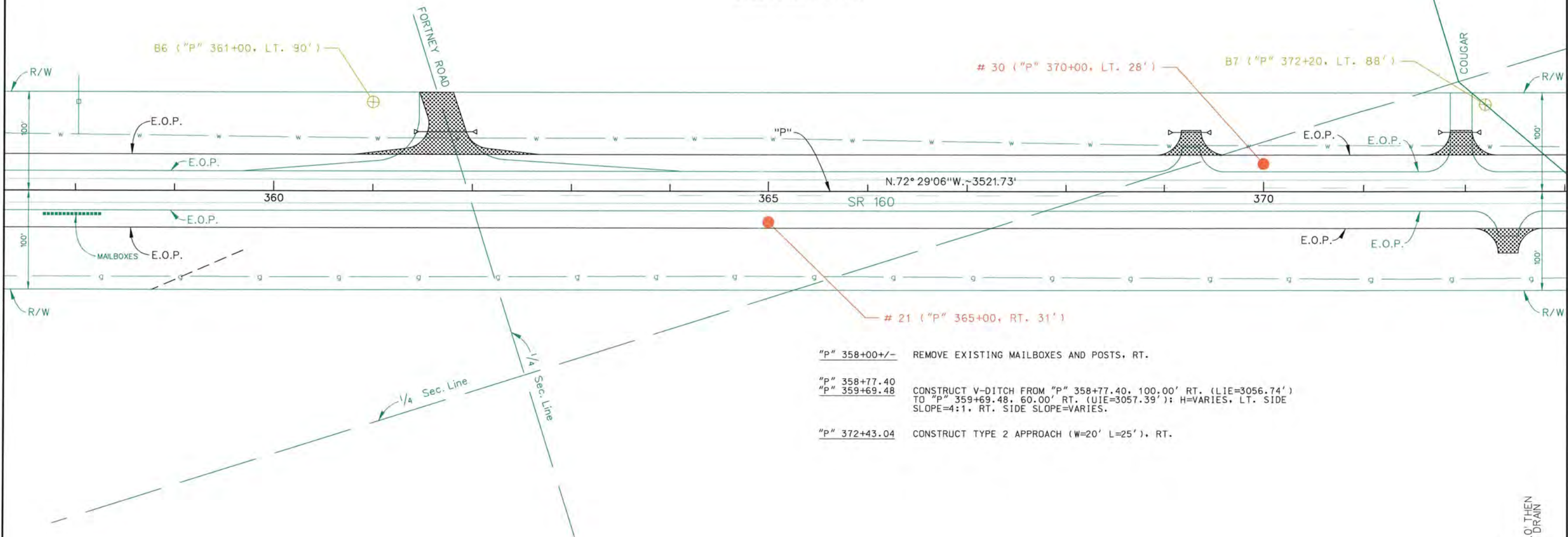
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	SPSR-0160(013)	CLARK	18

# PRELIMINARY

SUBJECT TO REVISION  
7/12/2008 10:45:24 AM

 - LIMITS OF PLANTMIXING MISCELLANEOUS AREAS

- "P" 361+42.84  
"P" 362+02.84 INSTALL 18" X 60' HDPE FROM "P" 361+42.84, 60.00' LT. (LIE=3061.21') TO "P" 362+02.84, 60.00' LT. (UIE=3062.57'). INSTALL METAL END SECTIONS (SAFETY TYPE) LT. AND RT.
- "P" 361+74.20 CONSTRUCT TYPE 5 APPROACH AT FORTNEY RD. (W=34' L=63'), LT. MATCH TO EXISTING PLANTMIX BITUMINOUS SURFACE.
- "P" 369+05.21  
"P" 369+45.21 INSTALL 18" X 40' HDPE FROM "P" 369+05.21, 60.00' LT. (LIE=3078.26') TO "P" 369+45.21, 60.00' LT. (UIE=3079.18'). INSTALL METAL END SECTIONS (SAFETY TYPE) LT. AND RT.
- "P" 369+26.71 CONSTRUCT TYPE 2 APPROACH (W=20' L=25'), LT.
- "P" 371+74.10  
"P" 372+14.10 INSTALL 18" X 40' HDPE FROM "P" 371+74.10, 60.00' LT. (LIE=3084.31') TO "P" 372+14.10, 60.00' LT. (UIE=3085.18'). INSTALL METAL END SECTIONS (SAFETY TYPE) LT. AND RT.
- "P" 371+95.60 CONSTRUCT TYPE 2 APPROACH AT COUGAR (W=22' L=25'), LT. GRADE TO RIGHT-OF-WAY.



- "P" 358+00+/- REMOVE EXISTING MAILBOXES AND POSTS, RT.
- "P" 358+77.40  
"P" 359+69.48 CONSTRUCT V-DITCH FROM "P" 358+77.40, 100.00' RT. (LIE=3056.74') TO "P" 359+69.48, 60.00' RT. (UIE=3057.39'); H=VARIES, LT. SIDE SLOPE=4:1, RT. SIDE SLOPE=VARIES.
- "P" 372+43.04 CONSTRUCT TYPE 2 APPROACH (W=20' L=25'), RT.

D.N. LT.  
D.N. RT.  
LT. EXCAVATION yd<sup>3</sup>  
LT. BORROW yd<sup>3</sup>  
LT. EMBANKMENT yd<sup>3</sup>  
RT. EXCAVATION yd<sup>3</sup>  
RT. BORROW yd<sup>3</sup>  
RT. EMBANKMENT yd<sup>3</sup>


SEE PREVIOUS SHEET  
SEE PREVIOUS SHEET

+33  
50:1 FOR 1.0' THEN  
GRADE TO DRAIN

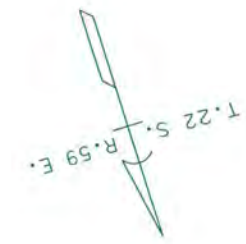
STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	SPSR-0160(013)	CLARK	19

# PRELIMINARY

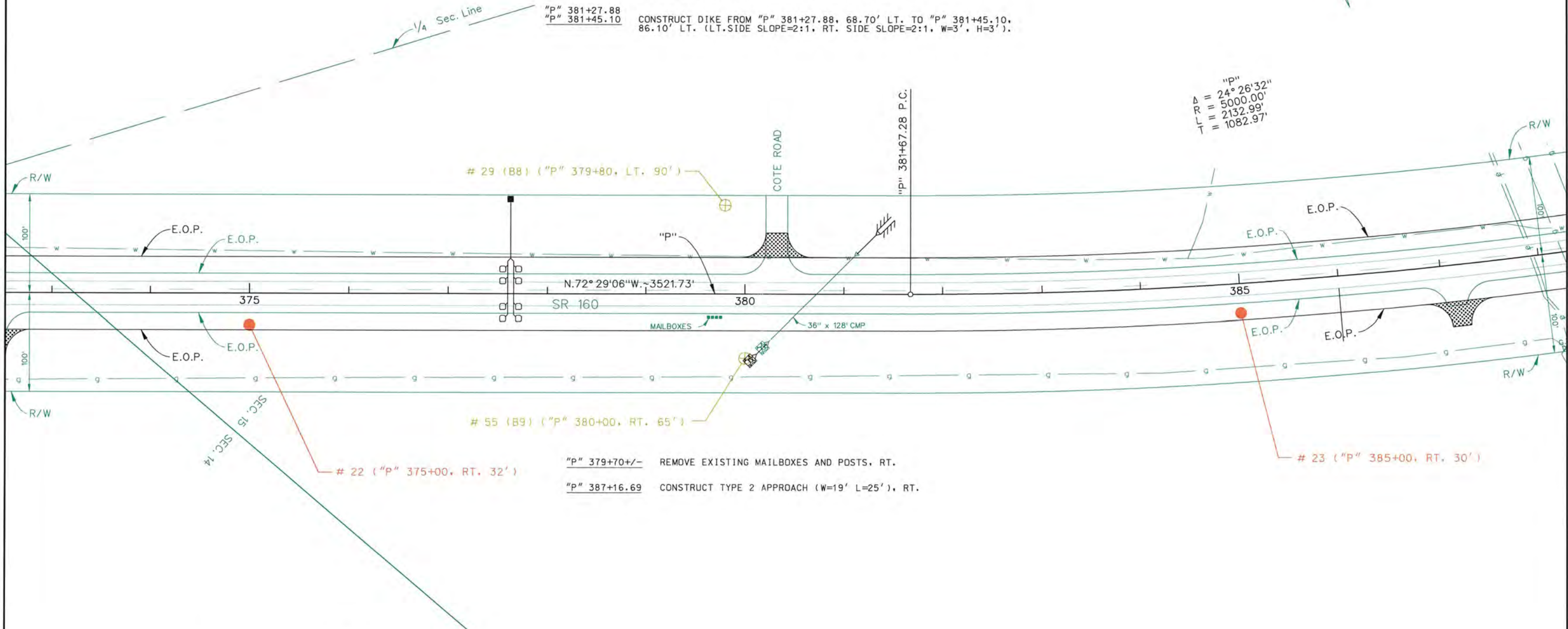
SUBJECT TO REVISION  
7/12/2008 10:45:26 AM

 - LIMITS OF PLANTMIXING MISCELLANEOUS AREAS

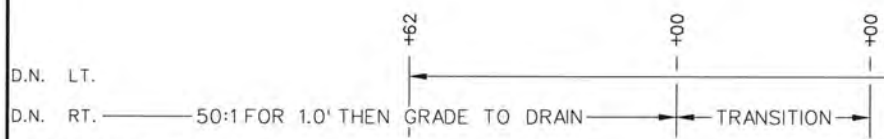
- "P" 377+62.79 INSTALL LOOP DETECTOR (6' x 6') SPEED DETECTOR LOOP CONFIGURATION WITH NO. 5 PULL BOX AND 3" CONDUIT (LT.)
- "P" 380+32.35 CONSTRUCT TYPE 2 APPROACH AT COTE RD. (W=22' L=25'), LT. GRADE TO RIGHT-OF-WAY.
- "P" 380+72.42 EXISTING 36" X 128' CMP. REMOVE EXISTING END SECTIONS LT. AND RT. EXTEND 30' LT. (UIE=3104.77') AND 18' RT. (LIE=3100.79') (36" X 176' CMP). INSTALL METAL END SECTIONS (SAFETY TYPE) LT. AND RT. REMOVE EXISTING RIPRAP APRON AT OUTLET. CONSTRUCT CLASS 300 RIPRAP APRON AT OUTLET.
- "P" 381+27.88  
"P" 381+45.10 CONSTRUCT DIKE FROM "P" 381+27.88, 68.70' LT. TO "P" 381+45.10, 86.10' LT. (LT. SIDE SLOPE=2:1, RT. SIDE SLOPE=2:1, W=3', H=3').



"P"  
Δ = 24° 26' 32"  
R = 5000.00'  
L = 2132.99'  
T = 1082.97'



- "P" 379+70+/- REMOVE EXISTING MAILBOXES AND POSTS, RT.
- "P" 387+16.69 CONSTRUCT TYPE 2 APPROACH (W=19' L=25'), RT.



LT. EXCAVATION	yd <sup>3</sup>	SEE SHEET 17
LT. BORROW	yd <sup>3</sup>	
LT. EMBANKMENT	yd <sup>3</sup>	
RT. EXCAVATION	yd <sup>3</sup>	SEE SHEET 17
RT. BORROW	yd <sup>3</sup>	
RT. EMBANKMENT	yd <sup>3</sup>	



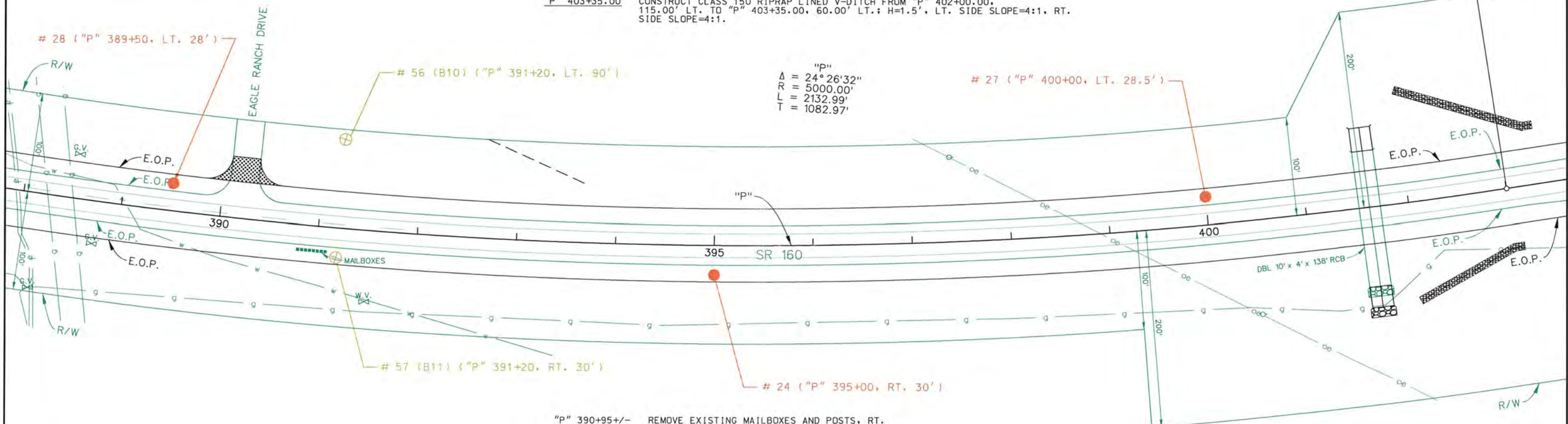
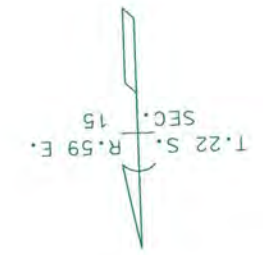
▨ - LIMITS OF PLANTMIXING MISCELLANEOUS AREAS

# PRELIMINARY

SUBJECT TO REVISION  
7/12/2008 10:45:28 AM

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	SPSR-0160(013)	CLARK	20

- "P" 390+21.47 CONSTRUCT TYPE 2 APPROACH AT EAGLE RANCH DR. (W=28' L=25'), LT. GRADE TO RIGHT-OF-WAY.
- "P" 392+66.00  
"P" 393+66.00 CONSTRUCT V-DITCH FROM "P" 392+66.00, 100.00' LT. (LIE=3130.84') TO "P" 393+66.00, 60.00' LT. (LIE=3132.62'); H=VARIES, LT. SIDE SLOPE=4:1, RT. SIDE SLOPE=VARIES FROM 4:1 TO 6:1.
- "P" 401+62.69 EXISTING DOUBLE 10' X 4' X 138' RCB. REMOVE EXISTING HEADWALLS LT. AND RT. EXTEND 24' LT. (LIE=3133.59') AND 21' RT. (LIE=3131.45'). CONSTRUCT TYPE 1 HEADWALLS 0 DEGREE SKEW LT. AND RT. REMOVE EXISTING RIPRAP APRON AT OUTLET. CONSTRUCT CLASS 300 RIPRAP APRON AT OUTLET.
- "P" 402+00.00  
"P" 403+35.00 CONSTRUCT CLASS 150 RIPRAP LINED V-DITCH FROM "P" 402+00.00, 115.00' LT. TO "P" 403+35.00, 60.00' LT.; H=1.5', LT. SIDE SLOPE=4:1, RT. SIDE SLOPE=4:1.



- "P" 390+95+/- REMOVE EXISTING MAILBOXES AND POSTS, RT.
- "P" 402+00.00  
"P" 403+10.00 CONSTRUCT CLASS 150 RIPRAP LINED V-DITCH FROM "P" 402+00.00, 100.00' RT. TO "P" 403+10.00, 60.00' RT.; H=1.5', LT. SIDE SLOPE=4:1 RT. SIDE SLOPE=4:1.

D.N. LT.  
D.N. RT.  
LT. EXCAVATION yd<sup>3</sup>  
LT. BORROW yd<sup>3</sup>  
LT. EMBANKMENT yd<sup>3</sup>  
RT. EXCAVATION yd<sup>3</sup>  
RT. BORROW yd<sup>3</sup>  
RT. EMBANKMENT yd<sup>3</sup>



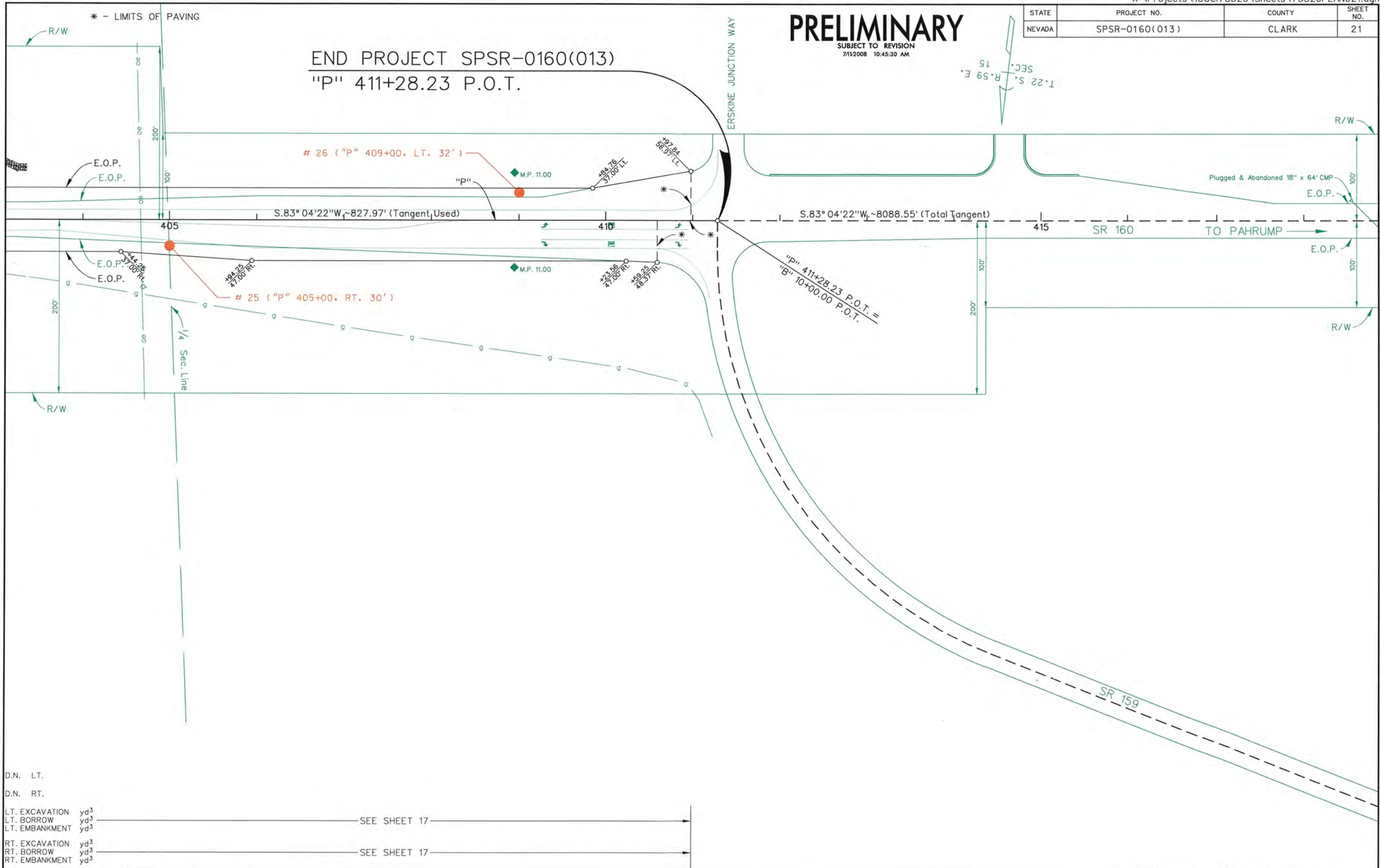
SEE SHEET 17  
SEE SHEET 17

STATE	PROJECT NO.	COUNTY	SHEET NO.
NEVADA	SPSR-0160(013)	CLARK	21

# PRELIMINARY

SUBJECT TO REVISION  
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END PROJECT SPSR-0160(013)  
"P" 411+28.23 P.O.T.



D.N. LT.		
D.N. RT.		
LT. EXCAVATION	yd <sup>3</sup>	SEE SHEET 17
LT. BORROW	yd <sup>3</sup>	
LT. EMBANKMENT	yd <sup>3</sup>	
RT. EXCAVATION	yd <sup>3</sup>	SEE SHEET 17
RT. BORROW	yd <sup>3</sup>	
RT. EMBANKMENT	yd <sup>3</sup>	