

## Table K2. - Soil Features

Virgin River Area, Nevada And Arizona

Absence of an entry indicates that the feature is not a concern or that data were not estimated.

| Map Symbol<br>and Soil Name | Restrictive Layer |                 |           |          | Subsidence |       | Potential<br>for Frost<br>Action | Risk of Corrosion |          |
|-----------------------------|-------------------|-----------------|-----------|----------|------------|-------|----------------------------------|-------------------|----------|
|                             | Kind              | Depth<br>to Top | Thickness | Hardness | Initial    | Total |                                  | Uncoated<br>Steel | Concrete |
|                             |                   | In              | In        |          | In         | In    |                                  |                   |          |
| Ad:<br>Alluvial Land        | ---               | ---             | ---       | ---      | ---        | ---   | ---                              | ---               | ---      |
| Ae:<br>Anthony              | ---               | ---             | ---       | ---      | 0          | ---   | None                             | High              | Low      |
| Af:<br>Anthony              | ---               | ---             | ---       | ---      | 0          | ---   | None                             | High              | Low      |
| Ah:<br>Anthony              | ---               | ---             | ---       | ---      | 0          | ---   | None                             | High              | Low      |
| Overton                     | ---               | ---             | ---       | ---      | 0          | ---   | None                             | High              | High     |
| AMC:<br>Arada               | ---               | ---             | ---       | ---      | 0          | ---   | ---                              | High              | Low      |
| AOB:<br>Arada               | ---               | ---             | ---       | ---      | 0          | ---   | ---                              | High              | Low      |
| ASC:<br>Arada Variant       | Petrocalcic       | 21-36           | 4-17      | ---      | 0          | ---   | None                             | High              | Low      |
| ATA:                        |                   |                 |           |          |            |       |                                  |                   |          |

**Table K2. - Soil Features - Continued**

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|-----------------------------|-------------------|-----------------|-----------|----------|------------|-------|----------------------------------|-------------------|----------|
|                             | Kind              | Depth<br>to Top | Thickness | Hardness | Initial    | Total |                                  | Uncoated<br>Steel | Concrete |
|                             |                   | In              | In        |          | In         | In    |                                  |                   |          |
| ATA:<br>Arizo               | ---               | ---             | ---       | ---      | 0          | ---   | None                             | Moderate          | Low      |
| AVB:<br>Arizo               | ---               | ---             | ---       | ---      | 0          | ---   | Low                              | High              | Low      |
| AXC:<br>Arizo               | ---               | ---             | ---       | ---      | 0          | ---   | Low                              | High              | Low      |
| AYD:<br>Arrolime            | ---               | ---             | ---       | ---      | 0          | ---   | None                             | High              | High     |
| BD:<br>Badland              | ---               | ---             | ---       | ---      | ---        | ---   | ---                              | ---               | ---      |
| BFD:<br>Bard                | Petrocalcic       | 14-20           | 4-17      | ---      | 0          | ---   | None                             | High              | Low      |
| BHC:<br>Bard                | Petrocalcic       | 14-20           | 4-17      | ---      | 0          | ---   | None                             | High              | Low      |
| BMD:<br>Bard                | Petrocalcic       | 14-20           | 4-17      | ---      | 0          | ---   | None                             | High              | Low      |
| BNB:                        |                   |                 |           |          |            |       |                                  |                   |          |

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| Map Symbol<br>and Soil Name | Restrictive Layer |                 |           |          | Subsidence |       | Potential<br>for Frost<br>Action | Risk of Corrosion |          |
|-----------------------------|-------------------|-----------------|-----------|----------|------------|-------|----------------------------------|-------------------|----------|
|                             | Kind              | Depth<br>to Top | Thickness | Hardness | Initial    | Total |                                  | Uncoated<br>Steel | Concrete |
|                             |                   | In              | In        |          | In         | In    |                                  |                   |          |
| BNB:<br>Bard                | Petrocalcic       | 14-20           | 4-17      | ---      | 0          | ---   | None                             | High              | Low      |
| BOB:<br>Bard                | Petrocalcic       | 14-20           | 4-17      | ---      | 0          | ---   | None                             | High              | Low      |
| Rough Broken Land           | ---               | ---             | ---       | ---      | ---        | ---   | ---                              | ---               | ---      |
| BP:<br>Pits                 | ---               | ---             | ---       | ---      | ---        | ---   | ---                              | ---               | ---      |
| BRB:<br>Bard                | Petrocalcic       | 14-20           | 4-17      | ---      | 0          | ---   | None                             | High              | Low      |
| Tonopah                     | ---               | ---             | ---       | ---      | 0          | ---   | None                             | High              | Low      |
| BTC:<br>Bitter Spring       | ---               | ---             | ---       | ---      | 0          | ---   | ---                              | High              | High     |
| Arizo                       | ---               | ---             | ---       | ---      | 0          | ---   | Low                              | High              | Low      |
| Bu:<br>Black Butte          | ---               | ---             | ---       | ---      | 0          | ---   | None                             | High              | Moderate |
| Bv:                         |                   |                 |           |          |            |       |                                  |                   |          |

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| Map Symbol<br>and Soil Name | Restrictive Layer |                 |           |          | Subsidence |       | Potential<br>for Frost<br>Action | Risk of Corrosion |          |
|-----------------------------|-------------------|-----------------|-----------|----------|------------|-------|----------------------------------|-------------------|----------|
|                             | Kind              | Depth<br>to Top | Thickness | Hardness | Initial    | Total |                                  | Uncoated<br>Steel | Concrete |
|                             |                   | In              | In        |          | In         | In    |                                  |                   |          |
| Bv:<br>Black Butte          | ---               | ---             | ---       | ---      | 0          | ---   | ---                              | High              | Moderate |
| Bw:<br>Bluepoint            | ---               | ---             | ---       | ---      | 0          | ---   | None                             | High              | Moderate |
| By:<br>Bluepoint            | ---               | ---             | ---       | ---      | 0          | ---   | Low                              | High              | High     |
| Ca:<br>Calico               | ---               | ---             | ---       | ---      | 0          | ---   | None                             | High              | Moderate |
| Cc:<br>Calico               | ---               | ---             | ---       | ---      | 0          | ---   | ---                              | High              | Low      |
| Cd:<br>Calico               | ---               | ---             | ---       | ---      | 0          | ---   | None                             | High              | Moderate |
| Cm:<br>Calico               | ---               | ---             | ---       | ---      | 0          | ---   | None                             | High              | Moderate |
| Cn:<br>Calico Variant       | ---               | ---             | ---       | ---      | 0          | ---   | ---                              | High              | Low      |
| Co:                         |                   |                 |           |          |            |       |                                  |                   |          |

**Table K2. - Soil Features - Continued**

Virgin River Area, Nevada And Arizona

| Map Symbol and Soil Name | Restrictive Layer |              |           |          | Subsidence |       | Potential for Frost Action | Risk of Corrosion |          |
|--------------------------|-------------------|--------------|-----------|----------|------------|-------|----------------------------|-------------------|----------|
|                          | Kind              | Depth to Top | Thickness | Hardness | Initial    | Total |                            | Uncoated Steel    | Concrete |
|                          |                   | In           | In        |          | In         | In    |                            |                   |          |
| Co:                      |                   |              |           |          |            |       |                            |                   |          |
| Calico Variant           | ---               | ---          | ---       | ---      | 0          | ---   | None                       | High              | Moderate |
| Overton                  | ---               | ---          | ---       | ---      | 0          | ---   | None                       | High              | High     |
| CTC:                     |                   |              |           |          |            |       |                            |                   |          |
| Colorock                 | Petrocalcic       | 12-20        | 4-17      | ---      | 0          | ---   | None                       | High              | Low      |
| Tonopah                  | ---               | ---          | ---       | ---      | 0          | ---   | None                       | High              | Low      |
| CYB:                     |                   |              |           |          |            |       |                            |                   |          |
| Crystal Springs          | Petrocalcic       | 11-20        | 4-17      | ---      | 0          | ---   | Low                        | High              | Low      |
| Ea:                      |                   |              |           |          |            |       |                            |                   |          |
| Eastland                 | ---               | ---          | ---       | ---      | 0          | ---   | None                       | High              | Low      |
| FLC:                     |                   |              |           |          |            |       |                            |                   |          |
| Flattop                  | Petrocalcic       | 20-40        | 4-17      | ---      | 0          | ---   | None                       | High              | High     |
| GAE:                     |                   |              |           |          |            |       |                            |                   |          |
| Garr                     | Bedrock (lithic)  | 12-20        | ---       | ---      | 0          | ---   | None                       | High              | Low      |
| Rock Outcrop             | ---               | ---          | ---       | ---      | ---        | ---   | ---                        | ---               | ---      |

Gd:

**Table K2. - Soil Features - Continued**

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| Map Symbol<br>and Soil Name | Restrictive Layer |                 |           |          | Subsidence |       | Potential<br>for Frost<br>Action | Risk of Corrosion |          |
|-----------------------------|-------------------|-----------------|-----------|----------|------------|-------|----------------------------------|-------------------|----------|
|                             | Kind              | Depth<br>to Top | Thickness | Hardness | Initial    | Total |                                  | Uncoated<br>Steel | Concrete |
|                             |                   | In              | In        |          | In         | In    |                                  |                   |          |
| Gd:<br>Gila                 | ---               | ---             | ---       | ---      | 0          | ---   | None                             | High              | Moderate |
| Ge:<br>Gila                 | ---               | ---             | ---       | ---      | 0          | ---   | None                             | High              | Moderate |
| Gf:<br>Gila                 | ---               | ---             | ---       | ---      | 0          | ---   | None                             | High              | Moderate |
| Gm:<br>Gila                 | ---               | ---             | ---       | ---      | 0          | ---   | None                             | High              | Moderate |
| Gn:<br>Gila                 | ---               | ---             | ---       | ---      | 0          | ---   | None                             | High              | Moderate |
| Go:<br>Glendale             | ---               | ---             | ---       | ---      | 0          | ---   | None                             | High              | Moderate |
| GP:<br>Pits                 | ---               | ---             | ---       | ---      | ---        | ---   | ---                              | ---               | ---      |
| Gr:<br>Glendale             | ---               | ---             | ---       | ---      | 0          | ---   | None                             | High              | Moderate |
| Gs:                         |                   |                 |           |          |            |       |                                  |                   |          |

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| Map Symbol<br>and Soil Name | Restrictive Layer |                 |           |          | Subsidence |       | Potential<br>for Frost<br>Action | Risk of Corrosion |          |
|-----------------------------|-------------------|-----------------|-----------|----------|------------|-------|----------------------------------|-------------------|----------|
|                             | Kind              | Depth<br>to Top | Thickness | Hardness | Initial    | Total |                                  | Uncoated<br>Steel | Concrete |
|                             |                   | In              | In        |          | In         | In    |                                  |                   |          |
| Gs:                         |                   |                 |           |          |            |       |                                  |                   |          |
| Glendale                    | ---               | ---             | ---       | ---      | 0          | ---   | None                             | High              | High     |
| Gv:                         |                   |                 |           |          |            |       |                                  |                   |          |
| Grapevine                   | ---               | ---             | ---       | ---      | 0          | ---   | None                             | High              | High     |
| Ir:                         |                   |                 |           |          |            |       |                                  |                   |          |
| Ireteba                     | ---               | ---             | ---       | ---      | 0          | ---   | None                             | High              | High     |
| It:                         |                   |                 |           |          |            |       |                                  |                   |          |
| Ireteba                     | ---               | ---             | ---       | ---      | 0          | ---   | None                             | High              | High     |
| La:                         |                   |                 |           |          |            |       |                                  |                   |          |
| Land                        | ---               | ---             | ---       | ---      | 0          | ---   | Low                              | High              | High     |
| Lc:                         |                   |                 |           |          |            |       |                                  |                   |          |
| Land                        | ---               | ---             | ---       | ---      | 0          | ---   | Low                              | High              | High     |
| Ld:                         |                   |                 |           |          |            |       |                                  |                   |          |
| Land                        | ---               | ---             | ---       | ---      | 0          | ---   | None                             | High              | High     |
| MMB:                        |                   |                 |           |          |            |       |                                  |                   |          |
| Mormon Mesa                 | Petrocalcic       | 10-20           | 4-17      | ---      | 0          | ---   | ---                              | High              | Low      |
| MOB:                        |                   |                 |           |          |            |       |                                  |                   |          |

**Table K2. - Soil Features - Continued**

Virgin River Area, Nevada And Arizona

| Map Symbol and Soil Name | Restrictive Layer |              |           |          | Subsidence |       | Potential for Frost Action | Risk of Corrosion |          |
|--------------------------|-------------------|--------------|-----------|----------|------------|-------|----------------------------|-------------------|----------|
|                          | Kind              | Depth to Top | Thickness | Hardness | Initial    | Total |                            | Uncoated Steel    | Concrete |
|                          |                   | In           | In        |          | In         | In    |                            |                   |          |
| MOB:                     |                   |              |           |          |            |       |                            |                   |          |
| Mormon Mesa              | Petrocalcic       | 10-20        | 4-17      | ---      | 0          | ---   | ---                        | High              | Low      |
| NAC:                     |                   |              |           |          |            |       |                            |                   |          |
| Nickel                   | ---               | ---          | ---       | ---      | 0          | ---   | None                       | High              | Low      |
| Arizo                    | ---               | ---          | ---       | ---      | 0          | ---   | Low                        | High              | Low      |
| Cave                     | Petrocalcic       | 4-20         | 4-17      | ---      | 0          | ---   | None                       | High              | Low      |
| Oc:                      |                   |              |           |          |            |       |                            |                   |          |
| Overton                  | ---               | ---          | ---       | ---      | 0          | ---   | None                       | High              | Low      |
| Oe:                      |                   |              |           |          |            |       |                            |                   |          |
| Overton                  | ---               | ---          | ---       | ---      | 0          | ---   | None                       | High              | High     |
| On:                      |                   |              |           |          |            |       |                            |                   |          |
| Overton                  | ---               | ---          | ---       | ---      | 0          | ---   | None                       | High              | High     |
| Or:                      |                   |              |           |          |            |       |                            |                   |          |
| Overton                  | ---               | ---          | ---       | ---      | 0          | ---   | None                       | High              | High     |
| Os:                      |                   |              |           |          |            |       |                            |                   |          |
| Overton Variant          | ---               | ---          | ---       | ---      | 0          | ---   | None                       | High              | High     |
| Ot:                      |                   |              |           |          |            |       |                            |                   |          |

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| Map Symbol<br>and Soil Name | Restrictive Layer |                 |           |          | Subsidence |       | Potential<br>for Frost<br>Action | Risk of Corrosion |          |
|-----------------------------|-------------------|-----------------|-----------|----------|------------|-------|----------------------------------|-------------------|----------|
|                             | Kind              | Depth<br>to Top | Thickness | Hardness | Initial    | Total |                                  | Uncoated<br>Steel | Concrete |
|                             |                   | In              | In        |          | In         | In    |                                  |                   |          |
| Ot:<br>Overton Variant      | ---               | ---             | ---       | ---      | 0          | ---   | None                             | High              | High     |
| PL:<br>Playas               | ---               | ---             | ---       | ---      | 0          | ---   | None                             | High              | High     |
| PME:<br>Pulsipher           | Bedrock (lithic)  | 12-20           | ---       | ---      | 0          | ---   | None                             | High              | Low      |
| Rock Outcrop                | ---               | ---             | ---       | ---      | ---        | ---   | ---                              | ---               | ---      |
| PPE:<br>Pulsipher           | Bedrock (lithic)  | 12-20           | ---       | ---      | 0          | ---   | None                             | High              | Low      |
| Pulsipher Variant           | Bedrock (lithic)  | 12-20           | ---       | ---      | 0          | ---   | None                             | High              | Low      |
| PRE:<br>Pulsipher Variant   | Bedrock (lithic)  | 12-20           | ---       | ---      | 0          | ---   | None                             | High              | Low      |
| Re:<br>Riverwash            | ---               | ---             | ---       | ---      | ---        | ---   | ---                              | ---               | ---      |
| RME:<br>Rockland            | ---               | ---             | ---       | ---      | ---        | ---   | ---                              | ---               | ---      |

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|--------------------------|-------------------|--------------|-----------|----------|------------|-------|----------------------------|-------------------|----------|
|                          | Kind              | Depth to Top | Thickness | Hardness | Initial    | Total |                            | Uncoated Steel    | Concrete |
|                          |                   | In           | In        |          | In         | In    |                            |                   |          |
| RME:<br>Moapa            | Bedrock (lithic)  | 20-40        | ---       | ---      | 0          | ---   | None                       | Moderate          | Low      |
| RTF:<br>Rockland         | ---               | ---          | ---       | ---      | ---        | ---   | ---                        | ---               | ---      |
| St. Thomas               | Bedrock (lithic)  | 4-20         | ---       | ---      | 0          | ---   | Low                        | High              | Low      |
| SP:<br>Spring            | ---               | ---          | ---       | ---      | 0          | ---   | None                       | High              | High     |
| Tb:<br>Tobler            | ---               | ---          | ---       | ---      | 0          | ---   | None                       | High              | Moderate |
| Tc:<br>Tobler            | ---               | ---          | ---       | ---      | 0          | ---   | None                       | High              | Moderate |
| Td:<br>Tobler            | ---               | ---          | ---       | ---      | 0          | ---   | None                       | High              | Low      |
| Te:<br>Tobler            | ---               | ---          | ---       | ---      | 0          | ---   | None                       | High              | Moderate |
| THB:<br>Tonopah          | ---               | ---          | ---       | ---      | 0          | ---   | None                       | High              | Low      |

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| Map Symbol<br>and Soil Name | Restrictive Layer |                 |           |          | Subsidence |       | Potential<br>for Frost<br>Action | Risk of Corrosion |          |
|-----------------------------|-------------------|-----------------|-----------|----------|------------|-------|----------------------------------|-------------------|----------|
|                             | Kind              | Depth<br>to Top | Thickness | Hardness | Initial    | Total |                                  | Uncoated<br>Steel | Concrete |
|                             |                   | In              | In        |          | In         | In    |                                  |                   |          |
| TMD:<br>Tonopah             | ---               | ---             | ---       | ---      | 0          | ---   | None                             | High              | Low      |
| TnA:<br>Toquop              | ---               | ---             | ---       | ---      | 0          | ---   | None                             | Moderate          | Low      |
| TnB:<br>Toquop              | ---               | ---             | ---       | ---      | 0          | ---   | None                             | Moderate          | Low      |
| TsA:<br>Toquop              | ---               | ---             | ---       | ---      | 0          | ---   | Low                              | High              | Low      |
| TtA:<br>Toquop              | ---               | ---             | ---       | ---      | 0          | ---   | None                             | Moderate          | Low      |
| TuA:<br>Toquop              | ---               | ---             | ---       | ---      | 0          | ---   | Low                              | High              | Low      |
| TvA:<br>Toquop              | ---               | ---             | ---       | ---      | 0          | ---   | Low                              | High              | Moderate |
| Vd:<br>Vinton               | ---               | ---             | ---       | ---      | 0          | ---   | None                             | High              | Low      |
| VEF:                        |                   |                 |           |          |            |       |                                  |                   |          |

**Table K2. - Soil Features - Continued**

Virgin River Area, Nevada And Arizona

| Map Symbol and Soil Name | Restrictive Layer    |              |           |          | Subsidence |       | Potential for Frost Action | Risk of Corrosion |          |
|--------------------------|----------------------|--------------|-----------|----------|------------|-------|----------------------------|-------------------|----------|
|                          | Kind                 | Depth to Top | Thickness | Hardness | Initial    | Total |                            | Uncoated Steel    | Concrete |
|                          |                      | In           | In        |          | In         | In    |                            |                   |          |
| VEF:                     |                      |              |           |          |            |       |                            |                   |          |
| Virgin Peak              | Bedrock (paralithic) | 6-20         | ---       | ---      | 0          | ---   | None                       | Moderate          | Low      |
|                          | Bedrock (lithic)     | 8-20         | ---       | ---      |            |       |                            |                   |          |
| Rockland                 | ---                  | ---          | ---       | ---      | ---        | ---   | ---                        | ---               | ---      |
| Vg:                      |                      |              |           |          |            |       |                            |                   |          |
| Virgin River             | ---                  | ---          | ---       | ---      | 0          | ---   | None                       | High              | High     |
| Overton                  | ---                  | ---          | ---       | ---      | 0          | ---   | None                       | High              | High     |
| Vn:                      |                      |              |           |          |            |       |                            |                   |          |
| Virgin River             | ---                  | ---          | ---       | ---      | 0          | ---   | None                       | High              | High     |
| Overton                  | ---                  | ---          | ---       | ---      | 0          | ---   | None                       | High              | High     |
| Vr:                      |                      |              |           |          |            |       |                            |                   |          |
| Virgin River Variant     | ---                  | ---          | ---       | ---      | 0          | ---   | None                       | High              | Moderate |
| W:                       |                      |              |           |          |            |       |                            |                   |          |
| Water                    | ---                  | ---          | ---       | ---      | ---        | ---   | ---                        | ---               | ---      |
| WEE:                     |                      |              |           |          |            |       |                            |                   |          |
| Weiser                   | ---                  | ---          | ---       | ---      | 0          | ---   | None                       | High              | Low      |