

Building Site Development

Adams County, Iowa

| Map symbol<br>and soil name | Pct.<br>of<br>map<br>unit | Local roads and<br>streets  |                              | Shallow excavations                        |              | Lawns and landscaping                          |       |
|-----------------------------|---------------------------|---|------------------------------|--|--------------|--|-------|
|                             |                           | Rating class and<br>limiting features                               | Value                        | Rating class and<br>limiting features      | Value        | Rating class and<br>limiting features          | Value |
| AaC:<br>Adair-----          | 100                       | Very limited<br>Frost action  | 1.00                         | Very limited<br>Depth to<br>saturated zone | 1.00         | Somewhat limited<br>Depth to<br>saturated zone | 0.19  |
|                             |                           | Low strength<br>Shrink-swell<br>Depth to<br>saturated zone          | 1.00<br>1.00<br>0.19         | Too clayey                                 | 0.41         |  |       |
| AaD2:<br>Adair-----         | 100                       | Very limited<br>Frost action  | 1.00                         | Very limited<br>Depth to<br>saturated zone | 1.00         | Somewhat limited<br>Slope                      | 0.63  |
|                             |                           | Low strength<br>Shrink-swell<br>Slope<br>Depth to<br>saturated zone | 1.00<br>1.00<br>0.63<br>0.19 | Slope<br>Too clayey                        | 0.63<br>0.41 | Depth to<br>saturated zone                     | 0.19  |
| AcC2:<br>Adair-----         | 100                       | Very limited<br>Frost action  | 1.00                         | Very limited<br>Depth to<br>saturated zone | 1.00         | Somewhat limited<br>Depth to<br>saturated zone | 0.19  |
|                             |                           | Low strength<br>Shrink-swell<br>Depth to<br>saturated zone          | 1.00<br>1.00<br>0.19         | Too clayey                                 | 0.41         |  |       |
| AcD:<br>Adair-----          | 100                       | Very limited<br>Frost action  | 1.00                         | Very limited<br>Depth to<br>saturated zone | 1.00         | Somewhat limited<br>Slope                      | 0.63  |
|                             |                           | Low strength<br>Shrink-swell<br>Slope<br>Depth to<br>saturated zone | 1.00<br>1.00<br>0.63<br>0.19 | Slope<br>Too clayey                        | 0.63<br>0.41 | Depth to<br>saturated zone                     | 0.19  |

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|-----------------------------|---------------------------|--|--------------|--|-------|--|-------|
|                             |                           | Rating class and<br>limiting features      | Value        | Rating class and<br>limiting features      | Value | Rating class and<br>limiting features          | Value |
| AcD2:<br>Adair-----         | 100                       | Very limited<br>Frost action               | 1.00         | Very limited<br>Depth to<br>saturated zone | 1.00  | Somewhat limited<br>Slope                      | 0.63  |
|                             |                           | Low strength                               | 1.00         | Slope                                      | 0.63  | Depth to<br>saturated zone                     | 0.19  |
|                             |                           | Shrink-swell<br>Slope                      | 1.00<br>0.63 | Too clayey                                 | 0.41  |  |       |
|                             |                           | Depth to<br>saturated zone                 | 0.19         |  |       |  |       |
| AcE2:<br>Adair-----         | 100                       | Very limited<br>Frost action               | 1.00         | Very limited<br>Slope                      | 1.00  | Very limited<br>Slope                          | 1.00  |
|                             |                           | Low strength                               | 1.00         | Depth to<br>saturated zone                 | 1.00  | Depth to<br>saturated zone                     | 0.19  |
|                             |                           | Shrink-swell<br>Slope                      | 1.00<br>1.00 | Too clayey                                 | 0.41  |  |       |
|                             |                           | Depth to<br>saturated zone                 | 0.19         |  |       |  |       |
| AdD3:<br>Adair-----         | 100                       | Very limited<br>Frost action               | 1.00         | Very limited<br>Depth to<br>saturated zone | 1.00  | Somewhat limited<br>Slope                      | 0.63  |
|                             |                           | Low strength                               | 1.00         | Slope                                      | 0.63  | Depth to<br>saturated zone                     | 0.19  |
|                             |                           | Shrink-swell<br>Slope                      | 1.00<br>0.63 | Too clayey                                 | 0.41  |  |       |
|                             |                           | Depth to<br>saturated zone                 | 0.19         |  |       |  |       |
| AmC3:<br>Adair-----         | 100                       | Very limited<br>Frost action               | 1.00         | Very limited<br>Depth to<br>saturated zone | 1.00  | Somewhat limited<br>Depth to<br>saturated zone | 0.19  |
|                             |                           | Low strength                               | 1.00         | Too clayey                                 | 0.41  |  |       |
|                             |                           | Shrink-swell<br>Depth to<br>saturated zone | 1.00<br>0.19 |  |       |  |       |

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|-----------------------------|---------------------------|---------------------------------------|--------------|--|-------|--|-------|
|                             |                           | Rating class and<br>limiting features | Value        | Rating class and<br>limiting features          | Value | Rating class and<br>limiting features          | Value |
| AmD3:<br>Adair-----         | 100                       | Very limited<br>Frost action          | 1.00         | Very limited<br>Depth to<br>saturated zone     | 1.00  | Somewhat limited<br>Slope                      | 0.63  |
|                             |                           | Low strength                          | 1.00         | Slope  | 0.63  | Depth to<br>saturated zone                     | 0.19  |
|                             |                           | Shrink-swell<br>Slope                 | 1.00<br>0.63 | Too clayey                                     | 0.41  |  |       |
|                             |                           | Depth to<br>saturated zone            | 0.19         |  |       |  |       |
| ApC2:<br>Adair-----         | 50                        | Very limited<br>Frost action          | 1.00         | Very limited<br>Depth to<br>saturated zone     | 1.00  | Somewhat limited<br>Depth to<br>saturated zone | 0.19  |
|                             |                           | Low strength                          | 1.00         | Too clayey                                     | 0.41  |  |       |
|                             |                           | Shrink-swell                          | 1.00         |  |       |  |       |
|                             |                           | Depth to<br>saturated zone            | 0.19         |  |       |  |       |
| Shelby-----                 | 30                        | Very limited<br>Low strength          | 1.00         | Somewhat limited<br>Depth to<br>saturated zone | 0.16  | Not limited                                    |       |
|                             |                           | Shrink-swell                          | 0.50         |  |       |  |       |
|                             |                           | Frost action                          | 0.50         |  |       |  |       |
| ApD:<br>Adair-----          | 50                        | Very limited<br>Frost action          | 1.00         | Very limited<br>Depth to<br>saturated zone     | 1.00  | Somewhat limited<br>Slope                      | 0.63  |
|                             |                           | Low strength                          | 1.00         | Slope  | 0.63  | Depth to<br>saturated zone                     | 0.19  |
|                             |                           | Shrink-swell<br>Slope                 | 1.00<br>0.63 | Too clayey                                     | 0.41  |  |       |
|                             |                           | Depth to<br>saturated zone            | 0.19         |  |       |  |       |
| Shelby-----                 | 30                        | Very limited<br>Low strength          | 1.00         | Somewhat limited<br>Slope                      | 0.63  | Somewhat limited<br>Slope                      | 0.63  |
|                             |                           | Slope                                 | 0.63         | Depth to<br>saturated zone                     | 0.16  |  |       |
|                             |                           | Shrink-swell                          | 0.50         |  |       |  |       |
|                             |                           | Frost action                          | 0.50         |  |       |  |       |

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|-----------------------------|---------------------------|---|----------------------|---|--------------|---------------------------------------|-------|
|                             |                           | Rating class and<br>limiting features               | Value                | Rating class and<br>limiting features                   | Value        | Rating class and<br>limiting features | Value |
| ApD2:<br>Adair-----         | 50                        | Very limited<br>Frost action                        | 1.00                 | Very limited<br>Depth to<br>saturated zone              | 1.00         | Somewhat limited<br>Slope             | 0.63  |
|                             |                           | Low strength  | 1.00                 | Slope   | 0.63         | Depth to<br>saturated zone            | 0.19  |
|                             |                           | Shrink-swell<br>Slope<br>Depth to<br>saturated zone | 1.00<br>0.63<br>0.19 | Too clayey  | 0.41         |                                       |       |
| Shelby-----                 | 30                        | Very limited<br>Low strength<br>Slope               | 1.00<br>0.63         | Somewhat limited<br>Slope<br>Depth to<br>saturated zone | 0.63<br>0.16 | Somewhat limited<br>Slope             | 0.63  |
|                             |                           | Shrink-swell<br>Frost action                        | 0.50<br>0.50         |   |              |                                       |       |
| ApD3:<br>Adair-----         | 50                        | Very limited<br>Frost action                        | 1.00                 | Very limited<br>Depth to<br>saturated zone              | 1.00         | Somewhat limited<br>Slope             | 0.63  |
|                             |                           | Low strength  | 1.00                 | Slope   | 0.63         | Depth to<br>saturated zone            | 0.19  |
|                             |                           | Shrink-swell<br>Slope<br>Depth to<br>saturated zone | 1.00<br>0.63<br>0.19 | Too clayey  | 0.41         |                                       |       |
| Shelby-----                 | 30                        | Very limited<br>Low strength<br>Slope               | 1.00<br>0.63         | Somewhat limited<br>Slope<br>Depth to<br>saturated zone | 0.63<br>0.16 | Somewhat limited<br>Slope             | 0.63  |
|                             |                           | Shrink-swell<br>Frost action                        | 0.50<br>0.50         |   |              |                                       |       |
| ApE2:<br>Adair-----         | 50                        | Very limited<br>Frost action                        | 1.00                 | Very limited<br>Slope                                   | 1.00         | Very limited<br>Slope                 | 1.00  |
|                             |                           | Low strength  | 1.00                 | Depth to<br>saturated zone                              | 1.00         | Depth to<br>saturated zone            | 0.19  |
|                             |                           | Shrink-swell<br>Slope<br>Depth to<br>saturated zone | 1.00<br>1.00<br>0.19 | Too clayey  | 0.41         |                                       |       |

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|-----------------------------|---------------------------|--|------------------------------|---|----------------------|---|--------------|
|                             |                           | Rating class and<br>limiting features  | Value                        | Rating class and<br>limiting features                             | Value                | Rating class and<br>limiting features               | Value        |
| Shelby-----                 | 30                        | Very limited<br>Slope<br>Low strength  | 1.00<br>1.00                 | Very limited<br>Slope<br>Depth to<br>saturated zone               | 1.00<br>0.16         | Very limited<br>Slope                               | 1.00         |
|                             |                           | Shrink-swell<br>Frost action   | 0.50<br>0.50                 |   |                      |   |              |
| ApE3:<br>Adair-----         | 50                        | Very limited<br>Frost action<br>Low strength   | 1.00<br>1.00                 | Very limited<br>Slope<br>Depth to<br>saturated zone<br>Too clayey | 1.00<br>1.00<br>0.41 | Very limited<br>Slope<br>Depth to<br>saturated zone | 1.00<br>0.19 |
|                             |                           | Shrink-swell<br>Slope<br>Depth to<br>saturated zone  | 1.00<br>1.00<br>0.19         |   |                      |   |              |
| Shelby-----                 | 30                        | Very limited<br>Slope<br>Low strength  | 1.00<br>1.00                 | Very limited<br>Slope<br>Depth to<br>saturated zone               | 1.00<br>0.16         | Very limited<br>Slope                               | 1.00         |
|                             |                           | Shrink-swell<br>Frost action   | 0.50<br>0.50                 |   |                      |   |              |
| Av:<br>Alluvial Land-----   | 90                        | Not rated  |                              | Not rated   |                      | Not rated   |              |
| AwD:<br>Arbor-----          | 100                       | Very limited<br>Low strength<br>Slope  | 1.00<br>0.63                 | Somewhat limited<br>Slope<br>Depth to<br>saturated zone           | 0.63<br>0.16         | Somewhat limited<br>Slope                           | 0.63         |
|                             |                           | Shrink-swell<br>Frost action   | 0.50<br>0.50                 |   |                      |   |              |
| Br:<br>Bremer-----          | 100                       | Very limited<br>Depth to<br>saturated zone<br>Frost action<br>Low strength<br>Shrink-swell | 1.00<br>1.00<br>1.00<br>1.00 | Very limited<br>Depth to<br>saturated zone<br>Too clayey          | 1.00<br>0.01         | Very limited<br>Depth to<br>saturated zone          | 1.00         |

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|-----------------------------|---------------------------|---|--------------------------------------|---|------------------------------|---|--------------|
|                             |                           | Rating class and<br>limiting features   | Value                                | Rating class and<br>limiting features                             | Value                        | Rating class and<br>limiting features                   | Value        |
| Ca:<br>Chariton-----        | 100                       | Very limited<br>Depth to<br>saturated zone<br>Frost action<br>Low strength<br>Shrink-swell          | 1.00<br>1.00<br>1.00<br>0.50         | Very limited<br>Depth to<br>saturated zone<br>Too clayey          | 1.00<br>1.00<br>0.82         | Very limited<br>Depth to<br>saturated zone              | 1.00         |
| CcC:<br>Clarinda-----       | 100                       | Very limited<br>Frost action<br>Low strength<br>Shrink-swell<br>Depth to<br>saturated zone          | 1.00<br>1.00<br>1.00<br>0.19         | Very limited<br>Depth to<br>saturated zone<br>Too clayey          | 1.00<br>1.00<br>0.50         | Somewhat limited<br>Depth to<br>saturated zone          | 0.19         |
| CcC2:<br>Clarinda-----      | 100                       | Very limited<br>Frost action<br>Low strength<br>Shrink-swell<br>Depth to<br>saturated zone          | 1.00<br>1.00<br>1.00<br>0.19         | Very limited<br>Depth to<br>saturated zone<br>Too clayey          | 1.00<br>1.00<br>0.50         | Somewhat limited<br>Depth to<br>saturated zone          | 0.19         |
| CcD:<br>Clarinda-----       | 100                       | Very limited<br>Frost action<br>Low strength<br>Shrink-swell<br>Slope<br>Depth to<br>saturated zone | 1.00<br>1.00<br>1.00<br>0.63<br>0.19 | Very limited<br>Depth to<br>saturated zone<br>Slope<br>Too clayey | 1.00<br>1.00<br>0.63<br>0.50 | Somewhat limited<br>Slope<br>Depth to<br>saturated zone | 0.63<br>0.19 |
| CcD2:<br>Clarinda-----      | 100                       | Very limited<br>Frost action<br>Low strength<br>Shrink-swell<br>Slope<br>Depth to<br>saturated zone | 1.00<br>1.00<br>1.00<br>0.63<br>0.19 | Very limited<br>Depth to<br>saturated zone<br>Slope<br>Too clayey | 1.00<br>1.00<br>0.63<br>0.50 | Somewhat limited<br>Slope<br>Depth to<br>saturated zone | 0.63<br>0.19 |

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|-----------------------------|---------------------------|--|--------------|--|-------|--|-------|
|                             |                           | Rating class and<br>limiting features      | Value        | Rating class and<br>limiting features          | Value | Rating class and<br>limiting features          | Value |
| CdC3:<br>Clarinda-----      | 100                       | Very limited<br>Frost action               | 1.00         | Very limited<br>Depth to<br>saturated zone     | 1.00  | Very limited<br>Too clayey                     | 1.00  |
|                             |                           | Low strength                               | 1.00         | Too clayey                                     | 0.50  | Depth to<br>saturated zone                     | 0.19  |
|                             |                           | Shrink-swell<br>Depth to<br>saturated zone | 1.00<br>0.19 |  |       |  |       |
| CdD3:<br>Clarinda-----      | 100                       | Very limited<br>Frost action               | 1.00         | Very limited<br>Depth to<br>saturated zone     | 1.00  | Very limited<br>Too clayey                     | 1.00  |
|                             |                           | Low strength                               | 1.00         | Slope  | 0.63  | Slope  | 0.63  |
|                             |                           | Shrink-swell                               | 1.00         | Too clayey                                     | 0.50  | Depth to<br>saturated zone                     | 0.19  |
|                             |                           | Slope<br>Depth to<br>saturated zone        | 0.63<br>0.19 |  |       |  |       |
| CfC:<br>Clearfield-----     | 100                       | Very limited<br>Frost action               | 1.00         | Very limited<br>Depth to<br>saturated zone     | 1.00  | Somewhat limited<br>Depth to<br>saturated zone | 0.19  |
|                             |                           | Low strength                               | 1.00         | Too clayey                                     | 0.12  |  |       |
|                             |                           | Shrink-swell<br>Depth to<br>saturated zone | 1.00<br>0.19 |  |       |  |       |
| CfC2:<br>Clearfield-----    | 100                       | Very limited<br>Frost action               | 1.00         | Very limited<br>Depth to<br>saturated zone     | 1.00  | Somewhat limited<br>Depth to<br>saturated zone | 0.19  |
|                             |                           | Low strength                               | 1.00         | Too clayey                                     | 0.12  |  |       |
|                             |                           | Shrink-swell<br>Depth to<br>saturated zone | 1.00<br>0.19 |  |       |  |       |
| ClC2:<br>Clinton-----       | 100                       | Very limited<br>Low strength               | 1.00         | Somewhat limited<br>Depth to<br>saturated zone | 0.15  | Not limited                                    |       |
|                             |                           | Shrink-swell<br>Frost action               | 0.50<br>0.50 |  |       |  |       |

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|-----------------------------|---------------------------|--|--------------------------------------|---|--------------|--|--------------|
|                             |                           | Rating class and<br>limiting features  | Value                                | Rating class and<br>limiting features                   | Value        | Rating class and<br>limiting features                  | Value        |
| C1D2:<br>Clinton-----       | 100                       | Very limited<br>Low strength<br>Slope  | 1.00<br>0.63                         | Somewhat limited<br>Slope<br>Depth to<br>saturated zone | 0.63<br>0.15 | Somewhat limited<br>Slope                              | 0.63         |
| Cm:<br>Colo-----            | 100                       | Very limited<br>Depth to<br>saturated zone<br>Frost action<br>Flooding<br>Low strength<br>Shrink-swell | 1.00<br>1.00<br>1.00<br>1.00<br>0.50 | Very limited<br>Depth to<br>saturated zone<br>Flooding  | 1.00<br>0.60 | Very limited<br>Depth to<br>saturated zone<br>Flooding | 1.00<br>0.60 |
| Cn:<br>Colo-----            | 90                        | Very limited<br>Depth to<br>saturated zone<br>Frost action<br>Flooding<br>Low strength<br>Shrink-swell | 1.00<br>1.00<br>1.00<br>1.00<br>0.50 | Very limited<br>Depth to<br>saturated zone<br>Flooding  | 1.00<br>0.80 | Very limited<br>Flooding<br>Depth to<br>saturated zone | 1.00<br>1.00 |
| Co:<br>Colo-----            | 100                       | Very limited<br>Depth to<br>saturated zone<br>Frost action<br>Flooding<br>Low strength<br>Shrink-swell | 1.00<br>1.00<br>1.00<br>1.00<br>0.50 | Very limited<br>Depth to<br>saturated zone<br>Flooding  | 1.00<br>0.60 | Very limited<br>Depth to<br>saturated zone<br>Flooding | 1.00<br>0.60 |
| CxB:<br>Colo-----           | 50                        | Very limited<br>Depth to<br>saturated zone<br>Frost action<br>Low strength<br>Shrink-swell             | 1.00<br>1.00<br>1.00<br>0.50         | Very limited<br>Depth to<br>saturated zone              | 1.00         | Very limited<br>Depth to<br>saturated zone             | 1.00         |

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|-----------------------------|---------------------------|--|------------------------------|---|--------------|--|-------|
|                             |                           | Rating class and<br>limiting features  | Value                        | Rating class and<br>limiting features                   | Value        | Rating class and<br>limiting features      | Value |
| Gravity-----                | 30                        | Very limited<br>Depth to<br>saturated zone<br>Frost action<br>Low strength<br>Shrink-swell | 1.00<br>1.00<br>1.00<br>0.50 | Very limited<br>Depth to<br>saturated zone              | 1.00         | Very limited<br>Depth to<br>saturated zone | 1.00  |
| GaC2:<br>Gara-----          | 100                       | Very limited<br>Low strength<br>Shrink-swell<br>Frost action                               | 1.00<br>0.50<br>0.50         | Somewhat limited<br>Depth to<br>saturated zone          | 0.16         | Not limited                                |       |
| GaD:<br>Gara-----           | 100                       | Very limited<br>Low strength<br>Slope<br>Shrink-swell<br>Frost action                      | 1.00<br>0.63<br>0.50<br>0.50 | Somewhat limited<br>Slope<br>Depth to<br>saturated zone | 0.63<br>0.16 | Somewhat limited<br>Slope                  | 0.63  |
| GaD2:<br>Gara-----          | 100                       | Very limited<br>Low strength<br>Slope<br>Shrink-swell<br>Frost action                      | 1.00<br>0.63<br>0.50<br>0.50 | Somewhat limited<br>Slope<br>Depth to<br>saturated zone | 0.63<br>0.16 | Somewhat limited<br>Slope                  | 0.63  |
| GaE:<br>Gara-----           | 100                       | Very limited<br>Slope<br>Low strength<br>Shrink-swell<br>Frost action                      | 1.00<br>1.00<br>0.50<br>0.50 | Very limited<br>Slope<br>Depth to<br>saturated zone     | 1.00<br>0.16 | Very limited<br>Slope                      | 1.00  |
| GaE2:<br>Gara-----          | 100                       | Very limited<br>Slope<br>Low strength<br>Shrink-swell<br>Frost action                      | 1.00<br>1.00<br>0.50<br>0.50 | Very limited<br>Slope<br>Depth to<br>saturated zone     | 1.00<br>0.16 | Very limited<br>Slope                      | 1.00  |

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|-----------------------------|---------------------------|---|--------------------------------------|---|------------------------------|---|----------------------|
|                             |                           | Rating class and<br>limiting features   | Value                                | Rating class and<br>limiting features   | Value                        | Rating class and<br>limiting features                                       | Value                |
| GaF:<br>Gara-----           | 100                       | Very limited<br>Slope<br>Low strength<br><br>Shrink-swell<br>Frost action                                   | 1.00<br>1.00<br>0.50<br>0.50         | Very limited<br>Slope<br>Depth to<br>saturated zone   | 1.00<br>0.16                 | Very limited<br>Slope   | 1.00                 |
| GaG:<br>Gara-----           | 100                       | Very limited<br>Slope<br>Low strength<br><br>Shrink-swell<br>Frost action                                   | 1.00<br>1.00<br>0.50<br>0.50         | Very limited<br>Slope<br>Depth to<br>saturated zone   | 1.00<br>0.16                 | Very limited<br>Slope   | 1.00                 |
| GbE3:<br>Gara-----          | 100                       | Very limited<br>Slope<br>Low strength<br><br>Shrink-swell<br>Frost action                                   | 1.00<br>1.00<br>0.50<br>0.50         | Very limited<br>Slope<br>Depth to<br>saturated zone   | 1.00<br>0.16                 | Very limited<br>Slope   | 1.00                 |
| Gp:<br>Gravel Pit-----      | 100                       | Not rated   |                                      | Not rated   |                              | Not rated   |                      |
| GpD:<br>Gosport-----        | 100                       | Very limited<br>Low strength<br><br>Shrink-swell<br>Frost action<br><br>Slope<br>Depth to<br>saturated zone | 1.00<br>1.00<br>0.50<br>0.16<br>0.03 | Very limited<br>Depth to<br>saturated zone<br>Depth to soft<br>bedrock<br>Too clayey<br>Slope | 1.00<br>0.46<br>0.32<br>0.16 | Somewhat limited<br>Depth to bedrock<br>Slope<br>Depth to<br>saturated zone | 0.46<br>0.16<br>0.03 |

Building Site Development

Adams County, Iowa

| Map symbol<br>and soil name | Pct.<br>of<br>map<br>unit | Local roads and<br>streets   |                              | Shallow excavations                                 |              | Lawns and landscaping                      |              |
|-----------------------------|---------------------------|--|------------------------------|---|--------------|--|--------------|
|                             |                           | Rating class and<br>limiting features  | Value                        | Rating class and<br>limiting features               | Value        | Rating class and<br>limiting features      | Value        |
| GpF:<br>Gospport-----       | 100                       | Very limited<br>Low strength<br>Shrink-swell   | 1.00<br>1.00                 | Very limited<br>Slope<br>Depth to<br>saturated zone | 1.00<br>1.00 | Very limited<br>Slope<br>Depth to bedrock  | 1.00<br>0.46 |
|                             |                           | Slope<br>Frost action<br>Depth to<br>saturated zone  | 1.00<br>0.50<br>0.03         | Depth to soft<br>bedrock<br>Too clayey              | 0.46<br>0.32 | Depth to<br>saturated zone                 | 0.03         |
| GpG:<br>Gospport-----       | 100                       | Very limited<br>Slope<br>Low strength  | 1.00<br>1.00                 | Very limited<br>Slope<br>Depth to<br>saturated zone | 1.00<br>1.00 | Very limited<br>Slope<br>Depth to bedrock  | 1.00<br>0.46 |
|                             |                           | Shrink-swell<br>Frost action<br>Depth to<br>saturated zone                                 | 1.00<br>0.50<br>0.03         | Depth to soft<br>bedrock<br>Too clayey              | 0.46<br>0.32 | Depth to<br>saturated zone                 | 0.03         |
| GrB:<br>Gravity-----        | 100                       | Very limited<br>Depth to<br>saturated zone<br>Frost action<br>Low strength<br>Shrink-swell | 1.00<br>1.00<br>1.00<br>0.50 | Very limited<br>Depth to<br>saturated zone          | 1.00         | Very limited<br>Depth to<br>saturated zone | 1.00         |
| Gu:<br>Gullied Land-----    | 100                       | Not rated  |                              | Not rated   |              | Not rated                                  |              |
| HaC2:<br>Hagener-----       | 100                       | Not limited  |                              | Very limited<br>cutbanks cave                       | 0.90         | Somewhat limited<br>Droughty               | 0.62         |
| HaD2:<br>Hagener-----       | 100                       | Somewhat limited<br>Slope  | 0.63                         | Very limited<br>cutbanks cave<br>Slope              | 0.90<br>0.63 | Somewhat limited<br>Slope<br>Droughty      | 0.63<br>0.62 |

Building Site Development

Adams County, Iowa

| Map symbol<br>and soil name | Pct.<br>of<br>map<br>unit | Local roads and<br>streets            |       | Shallow excavations                            |       | Lawns and landscaping                 |       |
|-----------------------------|---------------------------|---------------------------------------|-------|--|-------|---------------------------------------|-------|
|                             |                           | Rating class and<br>limiting features | Value | Rating class and<br>limiting features          | Value | Rating class and<br>limiting features | Value |
| JuA:<br>Judson-----         | 100                       | Very limited<br>Frost action          | 1.00  | Somewhat limited<br>Depth to<br>saturated zone | 0.16  | Not limited                           |       |
|                             |                           | Low strength                          | 1.00  |  |       |                                       |       |
| JuB:<br>Judson-----         | 100                       | Very limited<br>Frost action          | 1.00  | Somewhat limited<br>Depth to<br>saturated zone | 0.16  | Not limited                           |       |
|                             |                           | Low strength                          | 1.00  |  |       |                                       |       |
| JuC:<br>Judson-----         | 100                       | Very limited<br>Frost action          | 1.00  | Somewhat limited<br>Depth to<br>saturated zone | 0.16  | Not limited                           |       |
|                             |                           | Low strength                          | 1.00  |  |       |                                       |       |
| Kb:<br>Kennebec-----        | 98                        | Very limited<br>Frost action          | 1.00  | Somewhat limited<br>Depth to<br>saturated zone | 0.61  | Somewhat limited<br>Flooding          | 0.60  |
|                             |                           | Flooding                              | 1.00  | Flooding                                       | 0.60  |                                       |       |
|                             |                           | Low strength                          | 1.00  |  |       |                                       |       |
|                             |                           | Shrink-swell                          | 0.50  |  |       |                                       |       |
| LaB:<br>Ladoga-----         | 100                       | Very limited<br>Low strength          | 1.00  | Somewhat limited<br>Depth to<br>saturated zone | 0.15  | Not limited                           |       |
|                             |                           | Shrink-swell                          | 0.50  |  |       |                                       |       |
|                             |                           | Frost action                          | 0.50  |  |       |                                       |       |
| LaB2:<br>Ladoga-----        | 100                       | Very limited<br>Low strength          | 1.00  | Somewhat limited<br>Depth to<br>saturated zone | 0.15  | Not limited                           |       |
|                             |                           | Shrink-swell                          | 0.50  |  |       |                                       |       |
|                             |                           | Frost action                          | 0.50  |  |       |                                       |       |
| LaC:<br>Ladoga-----         | 100                       | Very limited<br>Low strength          | 1.00  | Somewhat limited<br>Depth to<br>saturated zone | 0.15  | Not limited                           |       |
|                             |                           | Shrink-swell                          | 0.50  |  |       |                                       |       |
|                             |                           | Frost action                          | 0.50  |  |       |                                       |       |

Building Site Development

Adams County, Iowa

| Map symbol<br>and soil name | Pct.<br>of<br>map<br>unit | Local roads and<br>streets            |              | Shallow excavations                                     |              | Lawns and landscaping                 |       |
|-----------------------------|---------------------------|---------------------------------------|--------------|---|--------------|---------------------------------------|-------|
|                             |                           | Rating class and<br>limiting features | Value        | Rating class and<br>limiting features                   | Value        | Rating class and<br>limiting features | Value |
| LaC2:<br>Ladoga-----        | 100                       | Very limited<br>Low strength          | 1.00         | Somewhat limited<br>Depth to<br>saturated zone          | 0.15         | Not limited                           |       |
|                             |                           | Shrink-swell<br>Frost action          | 0.50<br>0.50 |   |              |                                       |       |
| LaD:<br>Ladoga-----         | 100                       | Very limited<br>Low strength<br>Slope | 1.00<br>0.63 | Somewhat limited<br>Slope<br>Depth to<br>saturated zone | 0.63<br>0.15 | Somewhat limited<br>Slope             | 0.63  |
|                             |                           | Shrink-swell<br>Frost action          | 0.50<br>0.50 |   |              |                                       |       |
| LaD2:<br>Ladoga-----        | 100                       | Very limited<br>Low strength<br>Slope | 1.00<br>0.63 | Somewhat limited<br>Slope<br>Depth to<br>saturated zone | 0.63<br>0.15 | Somewhat limited<br>Slope             | 0.63  |
|                             |                           | Shrink-swell<br>Frost action          | 0.50<br>0.50 |   |              |                                       |       |
| LbA:<br>Ladoga-----         | 100                       | Very limited<br>Low strength          | 1.00         | Somewhat limited<br>Depth to<br>saturated zone          | 0.15         | Not limited                           |       |
|                             |                           | Shrink-swell<br>Frost action          | 0.50<br>0.50 |   |              |                                       |       |
| LbB:<br>Ladoga-----         | 100                       | Very limited<br>Low strength          | 1.00         | Somewhat limited<br>Depth to<br>saturated zone          | 0.15         | Not limited                           |       |
|                             |                           | Shrink-swell<br>Frost action          | 0.50<br>0.50 |   |              |                                       |       |
| LdC3:<br>Ladoga-----        | 100                       | Very limited<br>Low strength          | 1.00         | Somewhat limited<br>Depth to<br>saturated zone          | 0.15         | Not limited                           |       |
|                             |                           | Shrink-swell<br>Frost action          | 0.50<br>0.50 |   |              |                                       |       |

Building Site Development

Adams County, Iowa

| Map symbol<br>and soil name | Pct.<br>of<br>map<br>unit | Local roads and<br>streets               |                      | Shallow excavations  |              | Lawns and landscaping                 |       |
|-----------------------------|---------------------------|--|----------------------|--|--------------|---------------------------------------|-------|
|                             |                           | Rating class and<br>limiting features    | Value                | Rating class and<br>limiting features                      | Value        | Rating class and<br>limiting features | Value |
| MaA:<br>Macksburg-----      | 98                        | Very limited<br>Frost action             | 1.00                 | Very limited<br>Depth to<br>saturated zone                 | 0.95         | Not limited                           |       |
|                             |                           | Low strength<br>Shrink-swell             | 1.00<br>1.00         |  |              |                                       |       |
| MaB:<br>Macksburg-----      | 98                        | Very limited<br>Frost action             | 1.00                 | Very limited<br>Depth to<br>saturated zone                 | 0.95         | Not limited                           |       |
|                             |                           | Low strength<br>Shrink-swell             | 1.00<br>1.00         |  |              |                                       |       |
| Nn:<br>Nevin-----           | 98                        | Very limited<br>Frost action             | 1.00                 | Very limited<br>Depth to<br>saturated zone                 | 0.95         | Not limited                           |       |
|                             |                           | Low strength<br>Shrink-swell             | 1.00<br>0.50         |  |              |                                       |       |
| No:<br>Nodaway-----         | 98                        | Very limited<br>Frost action             | 1.00                 | Somewhat limited<br>Depth to<br>saturated zone             | 0.61         | Somewhat limited<br>Flooding          | 0.60  |
|                             |                           | Flooding<br>Low strength<br>Shrink-swell | 1.00<br>1.00<br>0.50 | Flooding   | 0.60         |                                       |       |
| Nw:<br>Nodaway-----         | 96                        | Very limited<br>Frost action             | 1.00                 | Somewhat limited<br>Flooding<br>Depth to<br>saturated zone | 0.80<br>0.61 | Very limited<br>Flooding              | 1.00  |
|                             |                           | Flooding<br>Low strength<br>Shrink-swell | 1.00<br>1.00<br>0.50 |  |              |                                       |       |
| OmB:<br>Olmitz-----         | 100                       | Very limited<br>Low strength             | 1.00                 | Somewhat limited<br>Depth to<br>saturated zone             | 0.16         | Not limited                           |       |
|                             |                           | Shrink-swell<br>Frost action             | 0.50<br>0.50         |  |              |                                       |       |

Building Site Development

Adams County, Iowa

| Map symbol<br>and soil name | Pct.<br>of<br>map<br>unit | Local roads and<br>streets            |              | Shallow excavations                            |       | Lawns and landscaping                 |       |
|-----------------------------|---------------------------|---------------------------------------|--------------|--|-------|---------------------------------------|-------|
|                             |                           | Rating class and<br>limiting features | Value        | Rating class and<br>limiting features          | Value | Rating class and<br>limiting features | Value |
| OmC:<br>Olmitz-----         | 100                       | Very limited<br>Low strength          | 1.00         | Somewhat limited<br>Depth to<br>saturated zone | 0.16  | Not limited                           |       |
|                             |                           | Shrink-swell<br>Frost action          | 0.50<br>0.50 |  |       |                                       |       |
| SaA:<br>Sharpsburg-----     | 100                       | Very limited<br>Frost action          | 1.00         | Somewhat limited<br>Depth to<br>saturated zone | 0.15  | Not limited                           |       |
|                             |                           | Low strength<br>Shrink-swell          | 1.00<br>0.50 |  |       |                                       |       |
| SaB:<br>Sharpsburg-----     | 100                       | Very limited<br>Frost action          | 1.00         | Somewhat limited<br>Depth to<br>saturated zone | 0.15  | Not limited                           |       |
|                             |                           | Low strength<br>Shrink-swell          | 1.00<br>0.50 |  |       |                                       |       |
| SaB2:<br>Sharpsburg-----    | 100                       | Very limited<br>Frost action          | 1.00         | Somewhat limited<br>Depth to<br>saturated zone | 0.15  | Not limited                           |       |
|                             |                           | Low strength<br>Shrink-swell          | 1.00<br>0.50 |  |       |                                       |       |
| SaC:<br>Sharpsburg-----     | 100                       | Very limited<br>Frost action          | 1.00         | Somewhat limited<br>Depth to<br>saturated zone | 0.15  | Not limited                           |       |
|                             |                           | Low strength<br>Shrink-swell          | 1.00<br>0.50 |  |       |                                       |       |
| SaC2:<br>Sharpsburg-----    | 100                       | Very limited<br>Frost action          | 1.00         | Somewhat limited<br>Depth to<br>saturated zone | 0.15  | Not limited                           |       |
|                             |                           | Low strength<br>Shrink-swell          | 1.00<br>0.50 |  |       |                                       |       |

Building Site Development

Adams County, Iowa

| Map symbol<br>and soil name | Pct.<br>of<br>map<br>unit | Local roads and<br>streets  |                                  | Shallow excavations                                     |              | Lawns and landscaping                 |       |
|-----------------------------|---------------------------|---|----------------------------------|---|--------------|---------------------------------------|-------|
|                             |                           | Rating class and<br>limiting features                                     | Value                            | Rating class and<br>limiting features                   | Value        | Rating class and<br>limiting features | Value |
| SaD:<br>Sharpsburg-----     | 100                       | Very limited<br>Frost action<br>Low strength<br><br>Slope<br>Shrink-swell | 1.00<br>1.00<br><br>0.63<br>0.50 | Somewhat limited<br>Slope<br>Depth to<br>saturated zone | 0.63<br>0.15 | Somewhat limited<br>Slope             | 0.63  |
| SaD2:<br>Sharpsburg-----    | 100                       | Very limited<br>Frost action<br>Low strength<br><br>Slope<br>Shrink-swell | 1.00<br>1.00<br><br>0.63<br>0.50 | Somewhat limited<br>Slope<br>Depth to<br>saturated zone | 0.63<br>0.15 | Somewhat limited<br>Slope             | 0.63  |
| SaE:<br>Sharpsburg-----     | 100                       | Very limited<br>Frost action<br>Low strength<br><br>Slope<br>Shrink-swell | 1.00<br>1.00<br><br>1.00<br>0.50 | Very limited<br>Slope<br>Depth to<br>saturated zone     | 1.00<br>0.15 | Very limited<br>Slope                 | 1.00  |
| SbA:<br>Sharpsburg-----     | 100                       | Very limited<br>Frost action<br><br>Low strength<br>Shrink-swell          | 1.00<br><br>1.00<br>0.50         | Somewhat limited<br>Depth to<br>saturated zone          | 0.15         | Not limited                           |       |
| SbB:<br>Sharpsburg-----     | 100                       | Very limited<br>Frost action<br><br>Low strength<br>Shrink-swell          | 1.00<br><br>1.00<br>0.50         | Somewhat limited<br>Depth to<br>saturated zone          | 0.15         | Not limited                           |       |
| ShC2:<br>Shelby-----        | 100                       | Very limited<br>Low strength<br><br>Shrink-swell<br>Frost action          | 1.00<br><br>0.50<br>0.50         | Somewhat limited<br>Depth to<br>saturated zone          | 0.16         | Not limited                           |       |

Building Site Development

Adams County, Iowa

| Map symbol<br>and soil name | Pct.<br>of<br>map<br>unit | Local roads and<br>streets            |              | Shallow excavations                                     |              | Lawns and landscaping                 |       |
|-----------------------------|---------------------------|---------------------------------------|--------------|---|--------------|---------------------------------------|-------|
|                             |                           | Rating class and<br>limiting features | Value        | Rating class and<br>limiting features                   | Value        | Rating class and<br>limiting features | Value |
| ShD:<br>Shelby-----         | 100                       | Very limited<br>Low strength<br>Slope | 1.00<br>0.63 | Somewhat limited<br>Slope<br>Depth to<br>saturated zone | 0.63<br>0.16 | Somewhat limited<br>Slope             | 0.63  |
| ShD2:<br>Shelby-----        | 100                       | Very limited<br>Low strength<br>Slope | 1.00<br>0.63 | Somewhat limited<br>Slope<br>Depth to<br>saturated zone | 0.63<br>0.16 | Somewhat limited<br>Slope             | 0.63  |
| ShE:<br>Shelby-----         | 100                       | Very limited<br>Slope<br>Low strength | 1.00<br>1.00 | Very limited<br>Slope<br>Depth to<br>saturated zone     | 1.00<br>0.16 | Very limited<br>Slope                 | 1.00  |
| ShE2:<br>Shelby-----        | 100                       | Very limited<br>Slope<br>Low strength | 1.00<br>1.00 | Very limited<br>Slope<br>Depth to<br>saturated zone     | 1.00<br>0.16 | Very limited<br>Slope                 | 1.00  |
| ShF:<br>Shelby-----         | 100                       | Very limited<br>Slope<br>Low strength | 1.00<br>1.00 | Very limited<br>Slope<br>Depth to<br>saturated zone     | 1.00<br>0.16 | Very limited<br>Slope                 | 1.00  |
| ShG:<br>Shelby-----         | 100                       | Very limited<br>Slope<br>Low strength | 1.00<br>1.00 | Very limited<br>Slope<br>Depth to<br>saturated zone     | 1.00<br>0.16 | Very limited<br>Slope                 | 1.00  |

Building Site Development

Adams County, Iowa

| Map symbol<br>and soil name | Pct.<br>of<br>map<br>unit | Local roads and<br>streets   |                                      | Shallow excavations  |                      | Lawns and landscaping  |                      |
|-----------------------------|---------------------------|--|--------------------------------------|--|----------------------|--|----------------------|
|                             |                           | Rating class and<br>limiting features  | Value                                | Rating class and<br>limiting features                                | Value                | Rating class and<br>limiting features                                | Value                |
| SoD3:<br>Shelby-----        | 100                       | Very limited<br>Low strength<br>Slope  | 1.00<br>0.63                         | Somewhat limited<br>Slope<br>Depth to<br>saturated zone              | 0.63<br>0.16         | Somewhat limited<br>Slope  | 0.63                 |
| SoE3:<br>Shelby-----        | 100                       | Very limited<br>Slope<br>Low strength  | 1.00<br>1.00                         | Very limited<br>Slope<br>Depth to<br>saturated zone                  | 1.00<br>0.16         | Very limited<br>Slope  | 1.00                 |
| Sp:<br>Sperry-----          | 100                       | Very limited<br>Depth to<br>saturated zone<br>Frost action<br>Low strength<br>Shrink-swell             | 1.00<br>1.00<br>1.00<br>1.00         | Very limited<br>Depth to<br>saturated zone<br>Too clayey             | 1.00<br>0.01         | Very limited<br>Depth to<br>saturated zone                           | 1.00                 |
| St:<br>Sperry-----          | 100                       | Very limited<br>Depth to<br>saturated zone<br>Frost action<br>Low strength<br>Shrink-swell             | 1.00<br>1.00<br>1.00<br>1.00         | Very limited<br>Depth to<br>saturated zone<br>Too clayey             | 1.00<br>0.01         | Very limited<br>Depth to<br>saturated zone                           | 1.00                 |
| W:<br>Water-----            | 100                       | Not rated  |                                      | Not rated  |                      | Not rated  |                      |
| Wa:<br>Wabash-----          | 100                       | Very limited<br>Shrink-swell<br>Depth to<br>saturated zone<br>Flooding<br>Low strength<br>Frost action | 1.00<br>1.00<br>1.00<br>1.00<br>0.50 | Very limited<br>Depth to<br>saturated zone<br>Flooding<br>Too clayey | 1.00<br>0.60<br>0.50 | Very limited<br>Depth to<br>saturated zone<br>Too clayey<br>Flooding | 1.00<br>1.00<br>0.60 |

Building Site Development

Adams County, Iowa

| Map symbol<br>and soil name | Pct.<br>of<br>map<br>unit | Local roads and<br>streets                 |       | Shallow excavations                        |       | Lawns and landscaping                      |       |
|-----------------------------|---------------------------|--|-------|--|-------|--|-------|
|                             |                           | Rating class and<br>limiting features      | Value | Rating class and<br>limiting features      | Value | Rating class and<br>limiting features      | Value |
| Wb:<br>Wabash-----          | 100                       | Very limited<br>Shrink-swell               | 1.00  | Very limited<br>Depth to<br>saturated zone | 1.00  | Very limited<br>Depth to<br>saturated zone | 1.00  |
|                             |                           | Depth to<br>saturated zone                 | 1.00  | Flooding                                   | 0.60  | Flooding                                   | 0.60  |
|                             |                           | Flooding                                   | 1.00  | Too clayey                                 | 0.50  |  |       |
|                             |                           | Low strength                               | 1.00  |  |       |  |       |
|                             |                           | Frost action                               | 0.50  |  |       |  |       |
| Wc:<br>Wabash-----          | 98                        | Very limited<br>Shrink-swell               | 1.00  | Very limited<br>Depth to<br>saturated zone | 1.00  | Very limited<br>Flooding                   | 1.00  |
|                             |                           | Depth to<br>saturated zone                 | 1.00  | Flooding                                   | 0.80  | Depth to<br>saturated zone                 | 1.00  |
|                             |                           | Flooding                                   | 1.00  | Too clayey                                 | 0.50  |  |       |
|                             |                           | Low strength                               | 1.00  |  |       |  |       |
|                             |                           | Frost action                               | 0.50  |  |       |  |       |
| Wr:<br>Winterset-----       | 100                       | Very limited<br>Depth to<br>saturated zone | 1.00  | Very limited<br>Depth to<br>saturated zone | 1.00  | Very limited<br>Depth to<br>saturated zone | 1.00  |
|                             |                           | Frost action                               | 1.00  |  |       |  |       |
|                             |                           | Low strength                               | 1.00  |  |       |  |       |
|                             |                           | Shrink-swell                               | 1.00  |  |       |  |       |
| WtA:<br>Wiota-----          | 100                       | Very limited<br>Frost action               | 1.00  | Not limited                                |       | Not limited                                |       |
|                             |                           | Low strength                               | 1.00  |  |       |  |       |
|                             |                           | Shrink-swell                               | 0.50  |  |       |  |       |
| WtB:<br>Wiota-----          | 100                       | Very limited<br>Frost action               | 1.00  | Not limited                                |       | Not limited                                |       |
|                             |                           | Low strength                               | 1.00  |  |       |  |       |
|                             |                           | Shrink-swell                               | 0.50  |  |       |  |       |