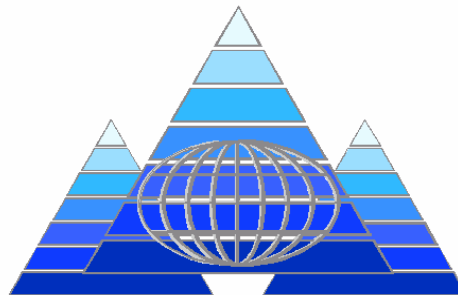


ArcGIS 9.0 Topographic GeoDatabase - Data Dictionary

City of Columbia, Missouri

DRAFT 5 – October 11, 2007



PINNACLE MAPPING TECHNOLOGIES, INC.

A certified woman-owned, veteran-owned small business

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TOPOGRAPHIC GEODATABASE

This Topographic GeoDatabase is one component of a suite of integrated GeoDatabases designed by Pinnacle for local government. Our other GeoDatabases address Planimetrics, Orthophotography, Cadastral, Public Works, Utilities, Asset Management, Environmental, Emergency Management, Public Safety, and Economic Development. All of our GeoDatabases are designed and developed by Pinnacle for the exclusive use of our Photogrammetry and GIS mapping clients.

Pinnacle has designed the topographic GeoDatabase to leverage the power of ArcGIS 9. The resulting GeoDatabase can immediately be used out-of-the-box with ESRI's ArcCatalog, ArcMap, other Extensions, and 3rd-party applications without the need to translate or re-engineer the delivered data. As our clients create more mapping and GIS data layers our suite of GeoDatabases also provide plug-and-play expansion capabilities.

Pinnacle also offers several optional extensions to help our clients integrate the delivered data with other applications. For example, extensions for Pinnacle's Planimetric GeoDatabase include:

- Transportation Model Management and Integration Tools - allows end-users to easily conflate the transportation network graphics with GDT Dynamap2000 data.
- Hydrology Model Management and Integration Tools - allows end-users to easily conflate the hydrology network graphics with the National Hydrographic Dataset (NHD) Reach Index Model.
- Cadastral Integration Tools - allows end-users to integrate the new basemap graphics with commercial off-the-shelf parcel management applications (e.g. Bruce Harris and Associates)
- HAZUS-MH Integration Tools – allows end users to integrate the new Basemap data layers into FEMA's Multi Hazard loss estimating GIS application.

The following sections describe the PROPOSED ArcGIS 9 GeoDatabase and the data dictionary for the Planimetric Basemap features being captured for Columbia, MO (Project P0511305) by Pinnacle Mapping Technologies, Inc..



GEODATABASE PARAMETERS

Properties

GeoDatabase Name: Topographic_GeoDatabase.mdb

Coordinate System: NAD 1983 State Missouri Central FIPS 2402 (Feet)

Storage Units: t.b.d

Spatial Domains:*

| | | | |
|-----------------------|---------------|---------------|-----------|
| Min X: | 1,612,700 | Max X: | 1,762,700 |
| Min Y: | 1,013,300 | Max Y: | 1,253,300 |
| X/Y Precision: | 8,947.8485 | | |
| Min Z: | 200 | Max Z: | 2,000 |
| Z Precision: | 1,193,046.469 | | |
| Min M: | 0 | Max M: | 396,000 |
| M Precision: | 5,422.9384 | | |

*Note: The GeoDatabase stores coordinates as positive 4-byte integers that have a maximum value of 4,147,483,645. This range of integers is called a spatial domain. We define the spatial domain values by manually setting our precision and adjusting the Min X,Y,Z, and M values accordingly to generate Max values appropriate for the intended use.

Setting the ArcGIS Geoprocessing Environment:

Setting the geoprocessing environment on your machine to use a specific spatial reference

1. In ArcCatalog or ArcMap, from the Tools menu, click Options.
2. Click the Geoprocessing tab.
3. Click the Environments button.
4. Expand General Settings.
5. For Output Spatial Reference, click As Specified Below.
6. Next to the following input box, click the folder icon.
7. On the Coordinate System tab, click Select.
 - a. Browse to:
/Projected Coordinate Systems/State Plane/NAD 1983 (Feet)/
 - b. Select the following .prj file:
NAD 1983 State Missouri Central FIPS 2402 (Feet)
 - c. Click Add.
10. Click OK to all the open dialogs.

All subsequent geoprocessing operations, including importing new data, performed by the current user on this machine, will use this spatial reference.



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2FT_TOPO FEATURE DATASET

The 2FT_TOPO Feature Dataset consists of feature classes to the surface accurately modeled to a 2' Contour Interval. All Feature Classes support this level of modeling.

CONTOUR (Line)

Properties

Feature Dataset 2FT_TOPO
 Feature Class CONTOUR

Type: Polyline

Topology/Network: n/a

Description

Contours modeled from the Digital Terrain Model captured for this project.

Attributes

| Name (Alias) | Type | Length | Default Value | Domain | Index | System, Required, Optional | Data Source | Description |
|---------------------|-----------|--------|---------------|--------|-------|----------------------------|-------------|---|
| OBJECTID (FID) | Object ID | | <not null> | | Y | S | ArcMap | Internal object / feature ID number (assigned by ArcMap) |
| SHAPE | Geometry | | Line | | | S | ArcMap | Internal geometry (assigned by ArcMap) |
| SHAPE_LENGTH | Double | | <not null> | | | S | ArcMap | Internal attribute with calculated length of the polyline (assigned by ArcMap) |
| DATE_OF_PHOTOGRAPHY | Text | 15 | <null> | | | R | Pinnacle | Assigned by Pinnacle, this attribute contains the date of photography used during compilation. |
| MAP_SCALE | Text | 4 | <not null> | | | R | Pinnacle | Assigned by Pinnacle, this attribute contains the targeted map scale of the compiled data. |
| UPDATE_DATE | Text | 15 | <null> | | | O | | Reserved for future use, to reflect the feature capture date when data is added outside of the photo compilation process. |
| CODE | Integer | | 1 | Y | O | R | Pinnacle | Assigned by Pinnacle, this attribute is a code identifying the feature. The description of the feature code is displayed. |
| ELEVATION | Integer | | <not null> | | | R | Pinnacle | Assigned by Pinnacle, this attribute will hold the elevation of the feature. |
| LAYER | String | 254 | <null> | | | R | AutoCAD | Name of AutoCAD Layer |
| COLOR | Long | 9 | | | | R | AutoCAD | Color assigned in AutoCAD to the Layer |
| LINETYPE | String | 254 | <null> | | | R | AutoCAD | AutoCAD Linestyle |



Feature Subtype Domain Definitions

| CODE | DESCRIPTION | <i>Level</i> | <i>Color</i> | <i>Weight</i> | <i>Style</i> | <i>Description</i> | <i>Capture Rules</i> |
|-------------|-------------------------|--------------|--------------|---------------|--------------|---|--|
| 1 | TO_CONT_IDX | 40 | 40 | 0 | 0 | Every fifth contour shall be depicted as an index contour. | Data is modeled using InRoads within MicroStation. |
| 2 | TO_CONT_IDX_HID | 41 | 41 | 0 | 0 | Index contours clipped for contour annotation or structures. | Data is modeled using InRoads within MicroStation |
| 3 | TO_CONT_IDX_DEP | 42 | 42 | 0 | 0 | Index contours representing a closed depression | Data is modeled using InRoads within MicroStation |
| 4 | TO_CONT_IDX_DEP_HID | 43 | 43 | 0 | 0 | Index contours representing a closed depression clipped for contour annotation or structures. | Data is modeled using InRoads within MicroStation |
| 5 | TO_CONT_IDX_APP | 44 | 44 | 0 | 0 | Index contours that are obstructed by dense vegetation shall be delineated as hidden index contours. | Data is modeled using InRoads within MicroStation |
| 6 | TO_CONT_IDX_APP_HID | 45 | 45 | 0 | 0 | Index contours in areas of dense vegetation or shadows clipped for contour annotation or structures. | Data is modeled using InRoads within MicroStation |
| 7 | TO_CONT_IDX_DEP_APP | 46 | 46 | 0 | 0 | Index contours representing a closed depression in areas of dense vegetation or shadows. Approximate contour. | Data is modeled using InRoads within MicroStation |
| 8 | TO_CONT_IDX_DEP_APP_HID | 47 | 47 | 0 | 0 | Index contours representing a closed depression in areas of dense vegetation or shadows clipped for contour annotation or structures. | Data is modeled using InRoads within MicroStation |
| 9 | TO_CONT_INT | 48 | 48 | 0 | 0 | Four intermediate contours exist between two index contours. | Data is modeled using InRoads within MicroStation. |
| 10 | TO_CONT_INT_HID | 49 | 49 | 0 | 0 | Intermediate contours clipped for contour annotation or structures. | Data is modeled using InRoads within MicroStation |



| CODE | DESCRIPTION | <i>Level</i> | <i>Color</i> | <i>Weight</i> | <i>Style</i> | <i>Description</i> | <i>Capture Rules</i> |
|-------------|-------------------------|--------------|--------------|---------------|--------------|--|--|
| 11 | TO_CONT_INT_DEP | 50 | 50 | 0 | 0 | Intermediate contours representing a closed depression | Data is modeled using InRoads within MicroStation |
| 12 | TO_CONT_INT_DEP_HID | 51 | 51 | 0 | 0 | Intermediate contours representing a closed depression clipped for contour annotation or structures. | Data is modeled using InRoads within MicroStation7 |
| 13 | TO_CONT_INT_APP | 52 | 52 | 0 | 0 | Intermediate contours that are obstructed by dense vegetation shall be delineated as hidden Intermediate contours. | Data is modeled using InRoads within MicroStation |
| 14 | TO_CONT_INT_APP_HID | 53 | 53 | 0 | 0 | Intermediate contours in areas of dense vegetation or shadows clipped for contour annotation or structures. | Data is modeled using InRoads within MicroStation |
| 15 | TO_CONT_INT_DEP_APP | 54 | 54 | 0 | 0 | Intermediate contours representing a closed depression in areas of dense vegetation or shadows. Approximate contour. | Data is modeled using InRoads within MicroStation |
| 16 | TO_CONT_INT_DEP_APP_HID | 55 | 55 | 0 | 0 | Intermediate contours representing a closed depression in areas of dense vegetation or shadows clipped for contour annotation or structures. | Data is modeled using InRoads within MicroStation |
| 17 | TO_CONT_CLOSE | 56 | 56 | 0 | 0 | Artificial line for representation of multiple contours in areas of extreme vertical elevation difference. | Line is captured with an elevation of -9999. |

AutoCAD Attributes

| LAYER | <i>Color</i> | <i>LINETYPE</i> | <i>THICKNESS</i> |
|-----------------|--------------|-----------------|------------------|
| TO_CONT_IDX | 251 | Continuous | 0 |
| TO_CONT_IDX_HID | 251 | Continuous | 0 |



| LAYER | <i>Color</i> | <i>LINETYPE</i> | <i>THICKNESS</i> |
|-------------------------|--------------|-----------------|------------------|
| TO_CONT_IDX_DEP | 251 | Continuous | 0 |
| TO_CONT_IDX_DEP_HID | 251 | Continuous | 0 |
| TO_CONT_IDX_APP | 251 | Continuous | 0 |
| TO_CONT_IDX_APP_HID | 251 | Continuous | 0 |
| TO_CONT_IDX_DEP_APP | 251 | Continuous | 0 |
| TO_CONT_IDX_DEP_APP_HID | 251 | Continuous | 0 |
| TO_CONT_INT | 253 | Continuous | 0 |
| TO_CONT_INT_HID | 253 | Continuous | 0 |
| TO_CONT_INT_DEP | 253 | Continuous | 0 |
| TO_CONT_INT_DEP_HID | 253 | Continuous | 0 |



| LAYER | <i>Color</i> | <i>LINETYPE</i> | <i>THICKNESS</i> |
|-------------------------|--------------|-----------------|------------------|
| TO_CONT_INT_APP | 253 | Continuous | 0 |
| TO_CONT_INT_APP_HID | 253 | Continuous | 0 |
| TO_CONT_INT_DEP_APP | 253 | Continuous | 0 |
| TO_CONT_INT_DEP_APP_HID | 253 | Continuous | 0 |
| TO_CONT_CLOSE | 251 | Continuous | 0 |

Index Contour Annotation (TO_CONT_IDX_TEXT)

| | |
|--|--------|
| Reference | 1:1200 |
| Scale | |
| Font Size | 10 |
| Font | Arial |
| Color | 251 |
| Note: All other fields are default values generated by the ESRI Import CAD Annotation Text | |



SPOT ELEVATION (Point)

Properties

Feature Dataset 2FT_TOPO
 Feature Class SPOT_ELEVATION

Type: Point

Topology/Network: n/a

Description

Supplemental elevation points used in conjunction with contour information.

Attributes

| Name (Alias) | Type | Length | Default Value | Domain | Index | System, Required, Optional | Data Source | Description |
|---------------------|-----------|--------|---------------|--------|-------|----------------------------|-------------|---|
| OBJECTID (FID) | Object ID | | <not null> | | Y | S | ArcMap | Internal object / feature ID number (assigned by ArcMap) |
| SHAPE | Geometry | | Point | | | S | ArcMap | Internal geometry (assigned by ArcMap) |
| DATE_OF_PHOTOGRAPHY | Text | 15 | <null> | | | R | Pinnacle | Assigned by Pinnacle, this attribute contains the date of photography used during compilation. |
| MAP_SCALE | Text | 4 | <not null> | | | R | Pinnacle | Assigned by Pinnacle, this attribute contains the targeted map scale of the compiled data. |
| UPDATE_DATE | Text | 15 | <null> | | | O | | Reserved for future use, to reflect the feature capture date when data is added outside of the photo compilation process. |
| CODE | Integer | | 1 | Y | O | R | Pinnacle | Assigned by Pinnacle, this attribute is a code identifying the feature. The description of the feature code is displayed. |
| ELEVATION | Integer | | <not null> | | | R | Pinnacle | Assigned by Pinnacle, this attribute will hold the elevation of the feature. |
| LAYER | String | 254 | <null> | | | R | AutoCAD | Name of AutoCAD Layer |
| COLOR | Long | 9 | | | | R | AutoCAD | Color assigned in AutoCAD to the Layer |
| LINETYPE | String | 254 | <null> | | | R | AutoCAD | AutoCAD Linestyle |
| ELEVATION | Double | 19 | | | | S | AutoCAD | Elevation |
| THICKNESS | Double | 19 | | | | R | AutoCAD | Weight of feature |



Feature Subtype Domain Definitions

| CODE | DESCRIPTION CLASS | <i>Level</i> | <i>Color</i> | <i>Weight</i> | <i>Style</i> | <i>Description</i> | <i>Capture Rules</i> |
|-------------|--------------------------|--------------|--------------|---------------|--------------|---|--|
| 1 | TO_CONT_GND_ELEV | 57 | 57 | 0 | 0 | Supplemental elevation points used in conjunction with contour information. | Spot elevations are manually placed at all road and/or railroad intersections; at each end of bridges on centerline of road; at centerline of roads above culverts; at the highest point of closed contour tops; at the lowest point of closed depressions, significant saddles and quarries; t points visible through dense vegetation in obscured areas; at any location necessary to provide that no more than 2 inches exist between any contour and spot elevation. |
| 2 | TO_CONT_BRDG_ELEV | 58 | 58 | 0 | 0 | Elevation of the surface of a bridge. | Bridge elevation is manually placed on the bridge surface. |
| 3 | TO_CONT_WATR_ELEV | 62 | 62 | 0 | 0 | Elevation of the surface of a body of water. | Water Elevation is manually placed on the surface of a pond or lake. |

AutoCAD Attributes

| LAYER | <i>Color</i> | <i>LINETYPE</i> | <i>THICKNESS</i> |
|-------------------|--------------|-----------------|------------------|
| TO_CONT_GND_ELEV | 251 | Continuous | 0 |
| TO_CONT_BRDG_ELEV | 251 | Continuous | 0 |
| TO_CONT_WATR_ELEV | 251 | Continuous | 0 |

Ground Elevation Annotation (TO_CONT_GND_ELEV_TEXT)

| | |
|--|--------|
| Reference | 1:1200 |
| Scale | |
| Font Size | 10 |
| Font | Arial |
| Color | 251 |
| Note: All other fields are default values generated by the ESRI Import CAD Annotation Text | |



Bridge Elevation Annotation (TO_BRDG_TEXT)

| | |
|--|--------|
| Reference | 1:1200 |
| Scale | |
| Font Size | 10 |
| Font | Arial |
| Color | 251 |
| Note: All other fields are default values generated by the ESRI Import CAD Annotation Text | |

Water Elevation Annotation (TO_WATR_TEXT)

| | |
|--|--------|
| Reference | 1:1200 |
| Scale | |
| Font Size | 10 |
| Font | Arial |
| Color | 251 |
| Note: All other fields are default values generated by the ESRI Import CAD Annotation Text | |



OBSCURED AREA (Polygon)

Properties

Feature Dataset 2FT_TOPO
 Feature Class OBSCURED_AREA

Type: Polygon

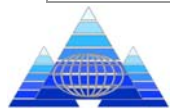
Topology/Network: n/a

Description

Obscured area relates to the covering of ground features to the extent that they are not accurately interpretable from the aerial photography.

Attributes

| Name (Alias) | Type | Length | Default Value | Domain | Index | System, Required, Optional | Data Source | Description |
|---------------------|-----------|--------|---------------|--------|-------|----------------------------|-------------|---|
| OBJECTID (FID) | Object ID | | <not null> | | Y | S | ArcMap | Internal object / feature ID number (assigned by ArcMap) |
| SHAPE | Geometry | | Polygon | | | S | ArcMap | Internal geometry (assigned by ArcMap) |
| SHAPE_LENGTH | Double | | <not null> | | | S | ArcMap | Internal attribute with calculated length of the polyline (assigned by ArcMap) |
| SHAPE_AREA | Double | | <not null> | | | S | ArcMap | Internal attribute with calculated area of the polygon (assigned by ArcMap) |
| DATE_OF_PHOTOGRAPHY | Text | 15 | <null> | | | R | Pinnacle | Assigned by Pinnacle, this attribute contains the date of photography used during compilation. |
| MAP_SCALE | Text | 4 | <not null> | | | R | Pinnacle | Assigned by Pinnacle, this attribute contains the targeted map scale of the compiled data. |
| UPDATE_DATE | Text | 15 | <null> | | | O | | Reserved for future use, to reflect the feature capture date when data is added outside of the photo compilation process. |
| CODE | Integer | | 1 | Y | O | R | Pinnacle | Assigned by Pinnacle, this attribute is a code identifying the feature. The description of the feature code is displayed. |
| HANDLE | String | 16 | <null> | | | S | AutoCAD | |
| LAYER | String | 254 | <null> | | | R | AutoCAD | Name of AutoCAD Layer |
| COLOR | Long | 9 | | | | R | AutoCAD | Color assigned in AutoCAD to the Layer |
| LINETYPE | String | 254 | <null> | | | R | AutoCAD | AutoCAD Linestyle |
| ELEVATION | Double | 19 | | | | S | AutoCAD | Elevation |
| THICKNESS | Double | 19 | | | | R | AutoCAD | Weight of feature |
| TEXT | String | 254 | <null> | | | O | AutoCAD | Description of feature |



Feature Subtype Domain Definitions

| CODE | DESCRIPTION | <i>Level</i> | <i>Color</i> | <i>Weight</i> | <i>Style</i> | <i>Description</i> | <i>Capture Rules</i> |
|-------------|--------------------|--------------|--------------|---------------|--------------|--|--|
| 1 | TO_OBSURED_AREA | 59 | 59 | 0 | 0 | This boundary represents an area completely obscured from the aerial photography. The resultant ground data compiled may not meet the mapping accuracy specifications / requirements in this area. | Collect as a closed polygon around area that is completely obscured. |

AutoCAD Attributes

| LAYER | <i>Color</i> | <i>LINETYPE</i> | <i>THICKNESS</i> |
|-----------------|--------------|-----------------|------------------|
| TO_OBSURED_AREA | 7 | Continuous | 0 |



2FT_DTM FEATURE DATASET

The 2FT_DTM Feature Dataset consists of feature classes representing the Digital Terrain Model (DTM). These feature classes are used as the basis for modeling the resultant 2' contours.

BREAKLINE (Line)

Properties

Feature Dataset 2FT_DTM
 Feature Class BREAKLINE

Type: Polyline

Topology/Network: n/a

Description

Breaklines used to depict either a sharp or gradual relief of the Earth.

Attributes

| Name (Alias) | Type | Length | Default Value | Domain | Index | System, Required, Optional | Data Source | Description |
|---------------------|-----------|--------|---------------|--------|-------|----------------------------|-------------|---|
| OBJECTID (FID) | Object ID | | <not null> | | Y | S | ArcMap | Internal object / feature ID number (assigned by ArcMap) |
| SHAPE | Geometry | | Line | | | S | ArcMap | Internal geometry (assigned by ArcMap) |
| SHAPE_LENGTH | Double | | <not null> | | | S | ArcMap | Internal attribute with calculated length of the polyline (assigned by ArcMap) |
| DATE_OF_PHOTOGRAPHY | Text | 15 | <null> | | | R | Pinnacle | Assigned by Pinnacle, this attribute contains the date of photography used during compilation. |
| MAP_SCALE | Text | 4 | <not null> | Y | | R | Pinnacle | Assigned by Pinnacle, this attribute contains the targeted map scale of the compiled data. |
| UPDATE_DATE | Text | 15 | <null> | | | O | | Reserved for future use, to reflect the feature capture date when data is added outside of the photo compilation process. |
| CODE | Integer | | 1 | Y | Y | R | Pinnacle | Assigned by Pinnacle, this attribute is a code identifying the feature. The description of the feature code is displayed. |
| HANDLE | String | 16 | <null> | | | S | AutoCAD | |
| LAYER | String | 254 | <null> | | | R | AutoCAD | Name of AutoCAD Layer |
| COLOR | Long | 9 | | | | R | AutoCAD | Color assigned in AutoCAD to the Layer |



| Name (Alias) | Type | Length | Default Value | Domain | Index | System, Required, Optional | Data Source | Description |
|--------------|--------|--------|---------------|--------|-------|----------------------------|-------------|------------------------|
| LINETYPE | String | 254 | <null> | | | R | AutoCAD | AutoCAD Linestyle |
| ELEVATION | Double | 19 | | | | S | AutoCAD | Elevation |
| THICKNESS | Double | 19 | | | | R | AutoCAD | Weight of feature |
| TEXT | String | 254 | <null> | | | O | AutoCAD | Description of feature |

Feature Subtype Domain Definitions

| CODE | DESCRIPTION | Level | Color | Weight | Style | Description | Capture Rules |
|------|-------------------|-------|-------|--------|-------|---|--|
| 1 | TO_DTM_BREAKLINES | 60 | 60 | 0 | 0 | Breakline represents a gradual or sharp break in the Earth's terrain. | Digitize all breaks on surface (e.g., top of slope, bottom of slope). Any planimetric feature like roads, drives, sidewalks, etc. that is collected at ground level will be utilized as breaklines in the DTM. |

AutoCAD Attributes

| LAYER | Color | LINETYPE | THICKNESS |
|-------------------|-------|------------|-----------|
| TO_DTM_BREAKLINES | 7 | Continuous | 0 |



MASS POINT (Point)

Properties

Feature Dataset 2FT_DTM
 Feature Class MASS_POINT

Type: Point

Topology/Network: n/a

Description

Supplemental elevation points used to densify the surface as defined by the breaklines.

Attributes

| Name (Alias) | Type | Length | Default Value | Domain | Index | System, Required, Optional | Data Source | Description |
|---------------------|-----------|--------|---------------|--------|-------|----------------------------|-------------|---|
| OBJECTID (FID) | Object ID | | <not null> | | Y | S | ArcMap | Internal object / feature ID number (assigned by ArcMap) |
| SHAPE | Geometry | | Point | | | S | ArcMap | Internal geometry (assigned by ArcMap) |
| DATE_OF_PHOTOGRAPHY | Text | 15 | <null> | | | R | Pinnacle | Assigned by Pinnacle, this attribute contains the date of photography used during compilation. |
| MAP_SCALE | Text | 4 | <not null> | Y | | R | Pinnacle | Assigned by Pinnacle, this attribute contains the targeted map scale of the compiled data. |
| UPDATE_DATE | Text | 15 | <null> | | | O | | Reserved for future use, to reflect the feature capture date when data is added outside of the photo compilation process. |
| CODE | Integer | | 1 | Y | Y | R | Pinnacle | Assigned by Pinnacle, this attribute is a code identifying the feature. The description of the feature code is displayed. |
| HANDLE | String | 16 | <null> | | | S | AutoCAD | |
| LAYER | String | 254 | <null> | | | R | AutoCAD | Name of AutoCAD Layer |
| COLOR | Long | 9 | | | | R | AutoCAD | Color assigned in AutoCAD to the Layer |
| LINETYPE | String | 254 | <null> | | | R | AutoCAD | AutoCAD Linestyle |
| ELEVATION | Double | 19 | | | | S | AutoCAD | Elevation |
| THICKNESS | Double | 19 | | | | R | AutoCAD | Weight of feature |
| TEXT | String | 254 | <null> | | | O | AutoCAD | Description of feature |



Feature Subtype Domain Definitions

| CODE | DESCRIPTION CLASS | <i>Level</i> | <i>Color</i> | <i>Weight</i> | <i>Style</i> | <i>Description</i> | <i>Capture Rules</i> |
|-------------|--------------------------|--------------|--------------|---------------|--------------|---|--|
| 1 | TO_DTM_POINTS | 61 | 61 | 0 | 0 | Supplemental elevation points used to densify the surface as defined by breaklines. Also used more densely in open areas that do not require breakline placement. | Mass points are to be collected at a given grid spacing based on the map scale. This is set at ½ of the map scale. |

AutoCAD Attributes

| LAYER | <i>Color</i> | <i>LINETYPE</i> | <i>THICKNESS</i> |
|---------------|--------------|-----------------|------------------|
| TO_DTM_POINTS | 7 | Continuous | 0 |

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