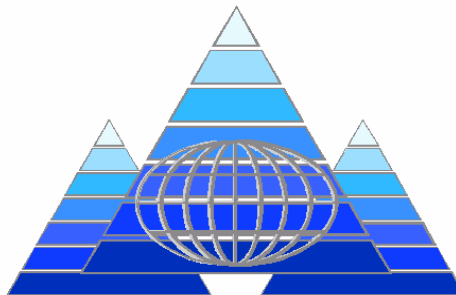


ArcGIS 9.0 Planimetric GeoDatabase - Data Dictionary

City of Columbia, Missouri

DRAFT 9 – January 3, 2008



PINNACLE MAPPING TECHNOLOGIES, INC.

A certified woman-owned, veteran-owned small business

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Table of Contents

| | |
|---------------------------------------|-----------|
| GEODATABASE PARAMETERS | 3 |
| TRANSPORTATION FEATURE DATASET | 5 |
| ROAD_EDGE (Line) | 5 |
| Road Annotation (PL_PAVT_ROAD_TEXT) | 6 |
| RAILROAD_CENTERLINE (Line) | 7 |
| BRIDGE (Polygon) | 9 |
| PARKING (Line) | 11 |
| DRIVEWAY (Line) | 13 |
| AIRPORT (Line) | 15 |
| TRAIL (Line) | 17 |
| Trail Annotation (PL_PAVT_TRAIL_TEXT) | 18 |
| STRUCTURE FEATURE DATASET | 19 |
| STRUCTURE (Polygon) | 19 |
| MISCELLANEOUS_STRUCTURE (Point) | 21 |
| BARRIER (Line) | 23 |
| LAND USE FEATURE DATASET | 25 |
| TREE_MASS (Polygon) | 25 |
| HYDROLOGY FEATURE DATASET | 27 |
| HYDROLOGY_WATERBODY (Polygon) | 27 |
| HYDROLOGY DRAIN (LINE) | 31 |
| Hydrology Annotation (PL_WATR_TEXT) | 33 |



PLANIMETRIC GEODATABASE

This Planimetric GeoDatabase is one component of a suite of integrated GeoDatabases designed by Pinnacle for local government. Our other GeoDatabases address Topography, 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 planimetric GeoDatabase to leverage the power of ArcGIS 9.0. By creating network and topology models of selective planimetric features captured in the mapping process, we provide the planimetric data in a GIS-ready format. The resulting planimetric 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 ArcGIS 9.0 GeoDatabase and the data dictionary for the Planimetric Basemap features being captured for the City of Columbia, Missouri by Pinnacle Mapping Technologies, Inc.



GEODATABASE PARAMETERS

Properties

GeoDatabase Name: Columbia_Planimetrics.mdb

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

Storage Units: feet

Spatial Domains:*

| | | | |
|-----------------------|---------------|---------------|-----------|
| Min X: | 1,612,700 | Max X: | 1,852,700 |
| Min Y: | 1,013,300 | Max Y: | 1,253,300 |
| X/Y Precision: | 8,947.8485 | | |
| Min Z: | 200 | Max Z: | 2000 |
| Z Precision: | 1,193,046.469 | | |
| Min M: | 0 | Max M: | 396,000 |
| M Precision: | 5422.9384 | | |

*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).prj
 - 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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TRANSPORTATION FEATURE DATASET

The Transportation Feature Dataset consists of feature classes to depict road edges, bridges, parking areas and driveways.

ROAD_EDGE (Line)

Properties

Feature Dataset TRANSPORTATION
 Feature Class ROAD_EDGE

Type: Line

Topology/Network: n/a

Description

Visible road features within the imagery.

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 | This attribute contains 2002 for all of the original mapping features, and 2007 for all new compilation. |
| MAP_SCALE | Text | 4 | <not null> | | | R | Pinnacle | Assigned by Pinnacle, this attribute contains the targeted map scale of the compiled data. (e.g. 100) |
| UPDATE_DATE | Text | 15 | <null> | | | O | | Reserved for future use, to reflect the feature capture date when data is added outside of the photogrammetric compilation process. |
| CODE | Integer | | 1 | Y | O | R | Pinnacle | Assigned by Pinnacle, this attribute is a code identifying the feature subtype (see domain list for values). |
| 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 |
| THICKNESS | Double | 19 | | | | R | AutoCAD | Weight of feature |



Feature Code Domain Definitions

| CODE | DESCRIPTION | Level | Color | Weight | Style | Description | Capture Rules |
|------|------------------|-------|-------|--------|-------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | PL_PAVT_ROAD | 1 | 1 | 0 | 0 | Edge of Paved Road: Defined as Edge of Road Pavement. | Collect as a double line. Continue visible paved driving surface over bridge decks, but do not capture the hidden road edge under the deck. |
| 2 | PL_PAVT_ROAD_SEC | 2 | 2 | 0 | 0 | Unpaved Road: Unpaved road over 100' long. Unpaved surfaces will include dirt, gravel or other compact surface. | Collect as a double line. Continue visible unpaved driving surface over bridge decks, but do not capture the hidden road edge under the deck. |

AutoCAD Attributes

| LAYER | COLOR | LINETYPE | THICKNESS |
|------------------|-------|----------------|-----------|
| PL_PAVT_ROAD | 155 | Continuous | 0 |
| PL_PAVT_ROAD_SEC | 155 | ACAD_ISO03W100 | 0 |

Road_Annotation (PL_PAVT_ROAD_TEXT)

| | |
|--------------------------------------------------------------------------------------------|----------|
| Reference Scale | 1:1,200 |
| Font Size | 10 |
| Font | Arial |
| Color | 253 |
| VerticalAlignment | Baseline |
| HorizontalAlignment | Left |
| Note: All other fields are default values generated by the ESRI Import CAD Annotation Tool | |



RAILROAD_CENTERLINE (Line)

Properties

Feature Dataset TRANSPORTATION
 Feature Class RAILROAD_CENTERLINE

Type: Polyline

Topology/Network: n/a

Description

Linear element defining the centerline of a railroad track within the imagery.

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 | This attribute contains 2002 for all of the original mapping features, and 2007 for all new compilation. |
| MAP_SCALE | Text | 4 | <not null> | | | R | Pinnacle | Assigned by Pinnacle, this attribute contains the targeted map scale of the compiled data. (e.g. 100) |
| UPDATE_DATE | Text | 15 | <null> | | | O | | Reserved for future use, to reflect the feature capture date when data is added outside of the photogrammetric compilation process. |
| CODE | Integer | | 1 | Y | O | R | Pinnacle | Assigned by Pinnacle, this attribute is a code identifying the feature subtype (see domain list for values). |
| 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 |
| THICKNESS | Double | 19 | | | | R | AutoCAD | Weight of feature |



Feature Code Domain Definitions

| CODE | DESCRIPTION | <i>Level</i> | <i>Color</i> | <i>Weight</i> | <i>Style</i> | <i>Description</i> | <i>Capture Rules</i> |
|-------------|--------------------|--------------|--------------|---------------|--------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | PL_STRC_RAIL | 3 | 3 | 0 | 0 | Railroads: The centerline abstraction of a Railroad. | Capture the apparent middle point between the rails. Assign classification by visual inspection of the imagery. Capture the centerline of all visible railroad tracks, including those in rail yards and all visible rail spurs and sidings. |
| 2 | PL_STRC_RAIL_ABND | 4 | 4 | 0 | 0 | Abandoned Railroad: The centerline abstraction of an Abandoned Railroad. | Capture the apparent middle point between what is remaining of the rails and/or ties. Assign classification by visual inspection of the imagery. If no rails or ties are remaining, do not capture. |

AutoCAD Attributes

| LAYER | <i>COLOR</i> | <i>LINETYPE</i> | <i>THICKNESS</i> |
|-------------------|--------------|-----------------|------------------|
| PL_STRC_RAIL | 40 | RR | 0 |
| PL_STRC_RAIL_ABND | 40 | RR | 0 |



BRIDGE (Polygon)

Properties

Feature Dataset TRANSPORTATION
 Feature Class BRIDGE

Type: Polygon

Topology/Network: n/a

Description

Visible bridge features within the imagery.

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 | This attribute contains 2002 for all of the original mapping features, and 2007 for all new compilation. |
| MAP_SCALE | Text | 4 | <not null> | | | R | Pinnacle | Assigned by Pinnacle, this attribute contains the targeted map scale of the compiled data. (e.g. 100) |
| UPDATE_DATE | Text | 15 | <null> | | | O | | Reserved for future use, to reflect the feature capture date when data is added outside of the photogrammetric compilation process. |
| CODE | Integer | | 1 | Y | O | R | Pinnacle | Assigned by Pinnacle, this attribute is a code identifying the feature subtype (see domain list for values). |
| LAYER | Text | String | 254 | | | R | AutoCAD | Name of AutoCAD Layer |
| COLOR | Integer | Long | 9 | | | R | AutoCAD | Color assigned in AutoCAD to the Layer |
| LINETYPE | Text | String | 254 | | | R | AutoCAD | AutoCAD Linestyle |
| THICKNESS | Double | Double | 19 | | | R | AutoCAD | Weight of feature |



Feature Code Domain Definitions

| CODE | DESCRIPTION | <i>Level</i> | <i>Color</i> | <i>Weight</i> | <i>Style</i> | <i>Description</i> | <i>Capture Rules</i> |
|-------------|--------------------|--------------|--------------|---------------|--------------|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | PL_STRC_BRIDGE | 5 | 5 | 0 | 0 | Pedestrian or vehicle bridge. Collect outer edge of bridge surface. | Collect as a closed polygon with the bridge feature to the right. Continue visible paved or unpaved driving surface over bridge decks, but not the hidden road edge under the deck. |

AutoCAD Attributes

| LAYER | <i>COLOR</i> | <i>LINETYPE</i> | <i>THICKNESS</i> |
|----------------|--------------|-----------------|------------------|
| PL_STRC_BRIDGE | 155 | Continuous | 0 |



PARKING (Line)

Properties

Feature Dataset TRANSPORTATION
 Feature Class PARKING

Type: Polyline

Topology/Network: n/a

Description

Paved or unpaved parking area features visible within the imagery.

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 | This attribute contains 2002 for all of the original mapping features, and 2007 for all new compilation. |
| MAP_SCALE | Text | 4 | <not null> | | | R | Pinnacle | Assigned by Pinnacle, this attribute contains the targeted map scale of the compiled data. (e.g. 100) |
| UPDATE_DATE | Text | 15 | <null> | | | O | | Reserved for future use, to reflect the feature capture date when data is added outside of the photogrammetric compilation process. |
| CODE | Integer | | 1 | Y | O | R | Pinnacle | Assigned by Pinnacle, this attribute is a code identifying the feature subtype (see domain list for values). |
| 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 |
| THICKNESS | Double | 19 | | | | R | AutoCAD | Weight of feature |



Feature Code Domain Definitions

| CODE | DESCRIPTION | <i>Level</i> | <i>Color</i> | <i>Weight</i> | <i>Style</i> | <i>Description</i> | <i>Capture Rules</i> |
|-------------|----------------------|--------------|--------------|---------------|--------------|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | PL_PAVT_PARK | 6 | 6 | 0 | 0 | Paved Parking: Commercial and/or Residential paved surfaces used primarily for parking vehicles. | Collect edge of parking surface. Parking features should snap to any Road Edge or Building feature they abut to with the common edges showing the same geometry. (DO compile islands or medians in parking areas.) |
| 2 | PL_PAVT_PARK_UNPAVED | 7 | 7 | 0 | 0 | Unpaved Parking: Commercial and/or Residential unpaved surfaces (dirt, gravel) used primarily for parking vehicles. | Collect edge of parking surface. Parking features should snap to any Road Edge or Building feature they abut to with the common edges showing the same geometry. (DO compile islands or medians in parking areas.) |

AutoCAD Attributes

| LAYER | <i>COLOR</i> | <i>LINETYPE</i> | <i>THICKNESS</i> |
|----------------------|--------------|-----------------|------------------|
| PL_PAVT_PARK | 155 | Continuous | 0 |
| PL_PAVT_PARK_UNPAVED | 155 | HIDDEN2 | 0 |



DRIVEWAY (Line)

Properties

Feature Dataset TRANSPORTATION
 Feature Class DRIVEWAY

Type: Polyline

Topology/Network: n/a

Description

Paved or unpaved driveway features visible within the imagery.

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 | This attribute contains 2002 for all of the original mapping features, and 2007 for all new compilation. |
| MAP_SCALE | Text | 4 | <not null> | | | R | Pinnacle | Assigned by Pinnacle, this attribute contains the targeted map scale of the compiled data. (e.g. 100) |
| UPDATE_DATE | Text | 15 | <null> | | | O | | Reserved for future use, to reflect the feature capture date when data is added outside of the photogrammetric compilation process. |
| CODE | Integer | | 1 | Y | O | R | Pinnacle | Assigned by Pinnacle, this attribute is a code identifying the feature subtype (see domain list for values). |
| 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 |
| THICKNESS | Double | 19 | | | | R | AutoCAD | Weight of feature |



Feature Code Domain Definitions

| CODE | DESCRIPTION | <i>Level</i> | <i>Color</i> | <i>Weight</i> | <i>Style</i> | <i>Description</i> | <i>Capture Rules</i> |
|-------------|-----------------------|--------------|--------------|---------------|--------------|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | PL_PAVT_DRIVE | 8 | 8 | 0 | 0 | Paved commercial and/or residential driveway. | Collect edge of driveway surface. Driveway features should snap to any Road Edge or Building feature they abut to with the common edges showing the same geometry. Always extend driveways through sidewalk features. |
| 2 | PL_PAVT_DRIVE_UNPAVED | 9 | 9 | 0 | 0 | Unpaved commercial and/or residential driveway. | Collect edge of driveway surface. Driveway features should snap to any Road Edge or Building feature they abut to with the common edges showing the same geometry. Always extend driveways through sidewalk features. |

AutoCAD Attributes

| LAYER | <i>COLOR</i> | <i>LINETYPE</i> | <i>THICKNESS</i> |
|-----------------------|--------------|-----------------|------------------|
| PL_PAVT_DRIVE | 155 | Continuous | 0 |
| PL_PAVT_DRIVE_UNPAVED | 155 | HIDDEN2 | 0 |



AIRPORT (Line)

Properties

Feature Dataset TRANSPORTATION
 Feature Class AIRPORT

Type: Polyline

Topology/Network: n/a

Description

Visible airport runways, taxiways, and aprons within the imagery.

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 | This attribute contains 2002 for all of the original mapping features, and 2007 for all new compilation. |
| MAP_SCALE | Text | 4 | <not null> | | | R | Pinnacle | Assigned by Pinnacle, this attribute contains the targeted map scale of the compiled data. (e.g. 100) |
| UPDATE_DATE | Text | 15 | <null> | | | O | | Reserved for future use, to reflect the feature capture date when data is added outside of the photogrammetric compilation process. |
| CODE | Integer | | 1 | Y | O | R | Pinnacle | Assigned by Pinnacle, this attribute is a code identifying the feature subtype (see domain list for values). |
| 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 |
| THICKNESS | Double | 19 | | | | R | AutoCAD | Weight of feature |



Feature Code Domain Definitions

| CODE | DESCRIPTION | <i>Level</i> | <i>Color</i> | <i>Weight</i> | <i>Style</i> | <i>Description</i> | <i>Capture Rules</i> |
|-------------|--------------------|--------------|--------------|---------------|--------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| 1 | PL_STRC_RUNWAY | 10 | 10 | 0 | 0 | Edge of paved surface used for takeoff, landing, taxiing and parking of airplanes. Runway also includes helipads. | Collect the edge of the paved surface. Include: runways, taxiways, and aprons. |

AutoCAD Attributes

| LAYER | <i>COLOR</i> | <i>LINETYPE</i> | <i>THICKNESS</i> |
|----------------|--------------|-----------------|------------------|
| PL_STRC_RUNWAY | 205 | Continuous | 0 |



TRAIL (Line)

Properties

Feature Dataset TRANSPORTATION
 Feature Class TRAIL

Type: Line

Topology/Network: n/a

Description

Miscellaneous transportation features visible within the imagery that serves as paths for recreational or off-road traffic.

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) |
| 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 | This attribute contains 2002 for all of the original mapping features, and 2007 for all new compilation. |
| MAP_SCALE | Text | 4 | <not null> | | | R | Pinnacle | Assigned by Pinnacle, this attribute contains the targeted map scale of the compiled data. (e.g. 100) |
| UPDATE_DATE | Text | 15 | <null> | | | O | | Reserved for future use, to reflect the feature capture date when data is added outside of the photogrammetric compilation process. |
| CODE | Integer | | 1 | Y | O | R | Pinnacle | Assigned by Pinnacle, this attribute is a code identifying the feature subtype (see domain list for values). |
| 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 |
| THICKNESS | Double | 19 | | | | R | AutoCAD | Weight of feature |



Feature Code Domain Definitions

| CODE | DESCRIPTION | <i>Level</i> | <i>Color</i> | <i>Weight</i> | <i>Style</i> | <i>Description</i> | <i>Capture Rules</i> |
|-------------|--------------------|--------------|--------------|---------------|--------------|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | PL_PAVT_TRAIL | 11 | 11 | 0 | 0 | The edge of a visible Trail. Must be at least 10' in width. | Capture as double line feature. Assign classification by visual inspection of the imagery. Bicycle and Walking trails will always have an improved surface of some kind. |

AutoCAD Attributes

| LAYER | <i>COLOR</i> | <i>LINETYPE</i> | <i>THICKNESS</i> |
|---------------|--------------|-----------------|------------------|
| PL_PAVT_TRAIL | 36 | Continuous | 0 |

Trail_Annotation (PL_PAVT_TRAIL_TEXT)

| | |
|--------------------------------------------------------------------------------------------|----------|
| Reference Scale | 1:1,200 |
| Font Size | 10 |
| Font | Arial |
| Color | 253 |
| VerticalAlignment | Baseline |
| HorizontalAlignment | Left |
| Note: All other fields are default values generated by the ESRI Import CAD Annotation Tool | |



STRUCTURE FEATURE DATASET

The Structure Feature Dataset consists of feature classes to depict structures (buildings and transmission towers); miscellaneous structures (cell towers, radio antennas, industrial smokestacks, and tall flagpoles); and barriers (property line fences and retaining walls).

STRUCTURE (Polygon)

Properties

Feature Dataset STRUCTURE
 Feature Class STRUCTURE

Type: Polygon

Topology/Network: n/a

Description

The footprint of buildings and transmission towers visible in the imagery.

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 | This attribute contains 2002 for all of the original mapping features, and 2007 for all new compilation. |
| MAP_SCALE | Text | 4 | <not null> | | | R | Pinnacle | Assigned by Pinnacle, this attribute contains the targeted map scale of the compiled data. (e.g. 100) |
| UPDATE_DATE | Text | 15 | <null> | | | O | | Reserved for future use, to reflect the feature capture date when data is added outside of the photogrammetric compilation process. |
| CODE | Integer | | 1 | Y | O | R | Pinnacle | Assigned by Pinnacle, this attribute is a code identifying the feature subtype (see domain list for values). |



| Name (Alias) | Type | Length | Default Value | Domain | Index | System, Required, Optional | Data Source | Description |
|--------------|--------|--------|---------------|--------|-------|----------------------------|-------------|----------------------------------------|
| 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 |
| THICKNESS | Double | 19 | | | | R | AutoCAD | Weight of feature |

Feature Code Domain Definitions

| CODE | DESCRIPTION | Level | Color | Weight | Style | Description | Capture Rules |
|------|-----------------------|-------|-------|--------|-------|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | PL_BLDG_DWELLING | 12 | 12 | 0 | 0 | Polygon enclosing all erect (not under construction) buildings; i.e. houses, apartments, outbuildings, commercial. | Collect as a closed polygon with building to the right. Buildings must have one side of 20' or greater to be compiled. Do not capture temporary structures such as construction trailers, mobile homes or sheds. |
| 2 | PL_BLDG_DWELLING_UC | 13 | 13 | 0 | 0 | Building Under Construction. Polygon enclosing all buildings under construction. | Collect as closed polygon with the approximate building to the right. Buildings Under Construction must have one side of 20' or greater to be compiled. |
| 3 | PL_BLDG_DWELLING_RUIN | 14 | 14 | 0 | 0 | Building Ruins Polygon enclosing all buildings in ruins. | Collect as closed polygon with the approximate building to the right. Building Ruin must have one side of 20' or greater to be compiled. |
| 4 | PL_BUILDING_VOIDS | 34 | 34 | 0 | 0 | Artificial polygon created when building is fully encompassing of an open area. | Programmatically defined in ArcGIS by Pinnacle. |
| 5 | PL_UTIL_OHD_TRANS_TWR | 12 | 12 | 0 | 0 | Transmission Tower: Large structure for supporting power lines across long distances. | Collect tower legs as a closed polygon with the interior of the tower to the right. |
| 6 | PL_STRC_MISC | 16 | 16 | 0 | 0 | Miscellaneous Structure: Tall cylindrical feature such as silos, tanks, and towers. | Collect as a closed polygon with the miscellaneous tall structure to the right. |

AutoCAD Attributes

| LAYER | COLOR | LINETYPE | THICKNESS |
|-----------------------|-------|------------|-----------|
| PL_BLDG_DWELLING | 13 | Continuous | 0 |
| PL_BLDG_DWELLING_UC | 13 | HIDDEN2 | 0 |
| PL_BLDG_DWELLING_RUIN | 13 | HIDDEN2 | 0 |
| PL_BLDG_VOIDS | 13 | Continuous | 0 |
| PL_UTIL_OHD_TRANS_TWR | 12 | Continuous | 0 |
| PL_STRC_MISC | 137 | Continuous | 0 |



MISCELLANEOUS_STRUCTURE (Point)

Properties

Feature Dataset STRUCTURE

Type: Point

Topology/Network: n/a

Feature Class MISCELLANEOUS_STRUCTURE

Description

These points depict the apparent center or base of a cell tower, radio antenna, industrial smokestack, tall flagpole, or transmission towers not captured as a polygon that are visible in the imagery.

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) |
| ANGLE | Double | | 0 | | | R | ArcMap | Assigned by Pinnacle, this attribute contains the angle of rotation for the tower point symbol. |
| DATE_OF_PHOTOGRAPHY | Text | 15 | <null> | | | R | Pinnacle | This attribute contains 2002 for all of the original mapping features, and 2007 for all new compilation. |
| MAP_SCALE | Text | 4 | <not null> | | | R | Pinnacle | Assigned by Pinnacle, this attribute contains the targeted map scale of the compiled data. (e.g. 100) |
| UPDATE_DATE | Text | 15 | <null> | | | O | | Reserved for future use, to reflect the feature capture date when data is added outside of the photogrammetric compilation process. |
| FEATURE_SUBTYPE | Integer | | 1 | Y | O | R | Pinnacle | Assigned by Pinnacle, this attribute is a code identifying the Feature subtype (see domain list for values). |
| LAYER | String | 254 | | | | R | AutoCAD | Name of AutoCAD Layer |
| COLOR | Long | 9 | | | | R | AutoCAD | Color assigned in AutoCAD to the Layer |
| LINETYPE | String | 254 | | | | R | AutoCAD | AutoCAD Linestyle |



| Name (Alias) | Type | Length | Default Value | Domain | Index | System, Required, Optional | Data Source | Description |
|--------------|--------|--------|---------------|--------|-------|----------------------------|-------------|-------------------|
| THICKNESS | Double | 19 | | | | R | AutoCAD | Weight of feature |

Feature Code Domain Definitions

| CODE | DESCRIPTION | Level | Color | Weight | Style | Description | Capture Rules |
|------|-----------------------|-------|-------|--------|-------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| 0 | PL_STRC_MISC | 16 | 16 | 0 | 0 | Miscellaneous Structure: Miscellaneous tall features not identified as one of the following types. | Place point at center of base of structure. Feature not captured as a polygon. |
| 1 | PL_CELL_TOWER | 17 | 17 | 0 | 0 | Freestanding tall cell towers | Place point at center of base of structure. Feature not captured as a polygon. |
| 2 | PL_RADIO_ANTENNA | 18 | 18 | 0 | 0 | Freestanding tall radio antenna | Place point at center of base of structure. Feature not captured as a polygon. |
| 3 | PL_SMOKESTACK | 19 | 19 | 0 | 0 | Freestanding tall industrial smokestack | Place point at center of base of structure. Feature not captured as a polygon. |
| 4 | PL_FLAGPOLE | 20 | 20 | 0 | 0 | Freestanding tall flagpole | Place point at center of base of structure. Feature not captured as a polygon. |
| 5 | PL_UTIL_OHD_TRANS_TWR | 21 | 21 | 0 | 0 | Freestanding transmission power/pole, not captured as a structure. | Place point at center of base of structure. Feature not captured as a polygon. |

AutoCAD Unique Attributes

| LAYER | COLOR | LINETYPE | THICKNESS |
|-----------------------|-------|------------|-----------|
| PL_STRC_MISC | 137 | Continuous | 0 |
| PL_CELL_TOWER | 137 | Continuous | 0 |
| PL_RADIO_ANTENNA | 137 | Continuous | 0 |
| PL_SMOKESTACK | 137 | Continuous | 0 |
| PL_FLAGPOLE | 137 | Continuous | 0 |
| PL_UTIL_OHD_TRANS_TWR | 12 | Continuous | 0 |



BARRIER (Line)

Properties

Feature Dataset STRUCTURE
 Feature Class BARRIER

Type: Polyline

Topology/Network: n/a

Description

This feature class includes man-made barriers such as walls and fences.

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 | This attribute contains 2002 for all of the original mapping features, and 2007 for all new compilation. |
| MAP_SCALE | Text | 4 | <not null> | | | R | Pinnacle | Assigned by Pinnacle, this attribute contains the targeted map scale of the compiled data. (e.g. 100) |
| UPDATE_DATE | Text | 15 | <null> | | | O | | Reserved for future use, to reflect the feature capture date when data is added outside of the photogrammetric compilation process. |
| CODE | Integer | | 1 | Y | O | R | Pinnacle | Assigned by Pinnacle, this attribute is a code identifying the Feature subtype (see domain list for values). |
| 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 |
| THICKNESS | Double | 19 | | | | R | AutoCAD | Weight of feature |



Feature Code Domain Definitions

| CODE | DESCRIPTION | <i>Level</i> | <i>Color</i> | <i>Weight</i> | <i>Style</i> | <i>Description</i> | <i>Capture Rules</i> |
|-------------|----------------------|--------------|--------------|---------------|--------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | PL_STRC_FENCE | 22 | 22 | 0 | 0 | Property Fence: Commercial or residential fence meant to show distinction between adjacent properties. | Digitize centerlines of property line fences (metal, wood, or brick). Do not capture fence lines parallel to highways or streets. Do not differentiate between fence and gate. If gate closes across road, pull fence across road. Digitize at ground level (where possible). |
| 2 | PL_STRC_MISC_RETWALL | 23 | 23 | 0 | 0 | Retaining Wall: Fixed structure retaining earth. Structure can be concrete or other man-made surface. | Digitize centerline of walls. Retaining wall has precedence over fences. Digitize “top” of wall at ground level. |

AutoCAD Attributes

| LAYER | <i>COLOR</i> | <i>LINETYPE</i> | <i>THICKNESS</i> |
|----------------------|--------------|-----------------|------------------|
| PL_STRC_FENCE | 131 | FENCELINE | 0 |
| PL_STRC_MISC_RETWALL | 137 | RETAINING | 0 |



LAND USE FEATURE DATASET

The Land Use Feature Dataset consists of a feature class to depict groups of trees.

TREE_MASS (Polygon)

Properties

Feature Dataset LAND_USE
 Feature Class TREE_MASS

Type: Polygon

Topology/Network: n/a

Description

Groups of trees and wooded/forest areas that are visible in the imagery.

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 | This attribute contains 2002 for all of the original mapping features, and 2007 for all new compilation. |
| MAP_SCALE | Text | 4 | <not null> | Y | | R | Pinnacle | Assigned by Pinnacle, this attribute contains the targeted map scale of the compiled data. (e.g. 100) |
| UPDATE_DATE | Text | 15 | <null> | | | O | | Reserved for future use, to reflect the feature capture date when data is added outside of the photogrammetric compilation process. |
| CODE | Integer | | 1 | Y | O | R | Pinnacle | Assigned by Pinnacle, this attribute is a code identifying the Feature subtype (see domain list for values). |
| LAYER | String | 254 | <null> | | | R | AutoCAD | Name of AutoCAD Layer |



| Name (Alias) | Type | Length | Default Value | Domain | Index | System, Required, Optional | Data Source | Description |
|--------------|--------|--------|---------------|--------|-------|----------------------------|-------------|----------------------------------------|
| COLOR | Long | 9 | | | | R | AutoCAD | Color assigned in AutoCAD to the Layer |
| LINETYPE | String | 254 | <null> | | | R | AutoCAD | AutoCAD Linestyle |
| THICKNESS | Double | 19 | | | | R | AutoCAD | Weight of feature |

Feature Code Domain Definitions

| CODE | DESCRIPTION | Level | Color | Weight | Style | Description | Capture Rules |
|------|------------------|-------|-------|--------|-------|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | PL_VEGE_TREELINE | 24 | 24 | 0 | 0 | Polygon indicating a tree line or edge of a forest | Outline/limits of an area of any single or group cluster with an area of 2 acres or greater diameter. Collect as a closed polygon with the trees to the right. |

AutoCAD Unique Attributes

| Layer | Color | LINETYPE | THICKNESS |
|------------------|-------|------------|-----------|
| PL_VEGE_TREELINE | 90 | TREELINE_L | 0 |

Annotation (PL_TEXT)

| | |
|--------------------------------------------------------------------------------------------|---------|
| Reference Scale | 1:1,200 |
| Font Size | 15 |
| Font | Arial |
| Color | 7 |
| VerticalAlignment | Center |
| HorizontalAlignment | Center |
| Note: All other fields are default values generated by the ESRI Import CAD Annotation Tool | |



HYDROLOGY FEATURE DATASET

The Hydrology Feature Dataset consists of feature classes that depict water bodies and hydrology structures. Additionally, the water body graphics are tied to a drain network class to facilitate conflation of the data to the National Hydrographic Dataset (NHD) Reach Index Model.

HYDROLOGY_WATERBODY (Polygon)

Properties

Feature Dataset HYDROLOGY
 Feature Class HYDROLOGY_WATERBODY

Type: Polygon

Topology/Network: Topology

Description

Visible double line hydrology and standing water bodies within the imagery.

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 | This attribute contains 2002 for all of the original mapping features, and 2007 for all new compilation. |
| MAP_SCALE | Text | 4 | <not null> | 0 | | R | Pinnacle | Assigned by Pinnacle, this attribute contains the targeted map scale of the compiled data. (e.g. 100) |
| UPDATE_DATE | Text | 15 | <null> | | | O | | Reserved for future use, to reflect the feature capture date when data is added outside of the photogrammetric compilation process. |
| NAME | Text | 50 | <null> | | | R (if provided) | City of Columbia | Common/Local Name for water body. Not intended for GNIS compatibility. Provided by the City of Columbia, MO. |



| Name (Alias) | Type | Length | Default Value | Domain | Index | System, Required, Optional | Data Source | Description |
|--------------|---------|--------|---------------|--------|-------|----------------------------|-------------|--------------------------------------------------------------------------------------------------------------|
| CODE | Integer | | | Y | O | R | Pinnacle | Assigned by Pinnacle, this attribute is a code identifying the Feature subtype (see domain list for values). |
| 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 |
| THICKNESS | Double | 19 | | | | R | AutoCAD | Weight of feature |

Feature Code Domain Definitions

| CODE | DESCRIPTION | Level | Color | Weight | Style | Description | Capture Rules |
|------|----------------------------------------------------------------------|-------|-------|--------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | PL_WATR_STREAM (USGS Equivalent: STREAM_RIVER – Perennial) | 35 | 35 | 0 | 0 | Defined by USGS classification based on the quad map for 1981. Water feature with an average width GREATER than 10’ wide. | Contains water throughout the year, except for infrequent periods of severe drought. Collect as closed polygon along edge of water line with the water to the right. |
| 2 | PL_WATR_POND_PER (USGS Equivalent: POND_LAKE – Perennial) | 26 | 26 | 0 | 0 | Shoreline of lake or pond. Determination of actual feature type is subjective and assigned by USGS classification. | Contains water throughout the year, except for infrequent periods of severe drought. Collect as closed polygon along edge of water line with the water to the right. |
| 3 | PL_WATR_POND_INT (USGS Equivalent: POND_LAKE – Intermittent) | 27 | 27 | 0 | 0 | Shoreline of lake or pond. Determination of actual feature type is subjective and assigned by USGS classification. | Contains water for only part of the year, but more than just after rainstorms and at snowmelt. Collect as closed polygon along edge of water line with the water to the right. |
| 4 | PL_WATR_STREAM_AQUA (USGS Equivalent: CANAL_DITCH – Aqueduct) | 28 | 28 | 0 | 0 | Defined by USGS classification based on the quad map for 1981. An Aqueduct water feature with an average width LESS than 10’ wide. | A structure designed to transport domestic or industrial water from a supply source to a distribution point, often by gravity. Collect as closed polygon along edge of water line with the water to the right. |
| 5 | PL_WATR_STREAM_UN (USGS Equivalent: CANAL_DITCH – Unspecified) | 29 | 29 | 0 | 0 | Defined by USGS classification based on the quad map for 1981. A unspecified Canal/Ditch water feature with an average width LESS than 10’ wide. | Does not have to be known or specified for the feature to be shown. Collect as closed polygon along edge of water line with the water to the right. |



| CODE | DESCRIPTION | <i>Level</i> | <i>Color</i> | <i>Weight</i> | <i>Style</i> | <i>Description</i> | <i>Capture Rules</i> |
|-------------|----------------------------------------------------------------------------|--------------|--------------|---------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6 | PL_WATR_STREAM_INT (USGS Equivalent: STREAM_RIVER – Intermittent) | 30 | 30 | 0 | 0 | Defined by USGS classification based on the quad map for 1981. An intermittent Stream or River water feature with an average width GREATER than 10' wide. | Contains water for only part of the year, but more than just after rainstorms and at snowmelt. Collect as closed polygon along edge of water line with the water to the right. |
| 7 | PL_WATR_POND_NC (USGS Equivalent: None) | 39 | 39 | 0 | 0 | A pond or lake feature which is not depicted on the quad map. | Collect as closed polygon along edge of water line with the water to the right. |

AutoCAD Unique Attributes

| Layer | <i>Color</i> | <i>LINETYPE</i> | <i>THICKNESS</i> |
|-------------------------------------------------------------------------|--------------|-----------------|------------------|
| PL_WATR_STREAM (USGS Equivalent: STREAM_RIVER – Perennial) | 160 | HYDRO | 0 |
| PL_WATR_STREAM_INT (USGS Equivalent: STREAM_RIVER – Intermittent) | 160 | HYDRO | 0 |
| PL_WATR_POND_PER (USGS Equivalent: POND_LAKE – Perennial) | 160 | HYDRO | 0 |
| PL_WATR_POND_INT (USGS Equivalent: POND_LAKE – Intermittent) | 160 | HYDRO | 0 |
| PL_WATR_STREAM_AQUA (USGS Equivalent: CANAL_DITCH – Aqueduct) | 160 | HYDRO | 0 |
| PL_WATR_STREAM_UN (USGS Equivalent: CANAL_DITCH – Unspecified) | 160 | HYDRO | 0 |
| PL_WATR_POND_NC (USGS Equivalent: None) | 160 | HYDRO | 0 |



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HYDROLOGY DRAIN (LINE)

Properties

Feature Dataset HYDROLOGY
 Feature Class HYDROLOGY_DRAIN

Type: Polyline

Topology/Network: Topology

Description

The visible centerline of a hydrology feature (flowing or intermittent) within the imagery that is less than 10’ wide. Additionally, centerline abstractions oriented in the direction of flow through all open water bodies captured in the hydrology_waterbody feature class. The resulting lines are designed to create a geographic network compatible with the National Hydrological Dataset (NHD) modeling standards for representing NHD drainage network.

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 | This attribute contains 2002 for all of the original mapping features, and 2007 for all new compilation. |
| MAP_SCALE | Text | 4 | <not null> | | | R | Pinnacle | Assigned by Pinnacle, this attribute contains the targeted map scale of the compiled data. (e.g. 100) |
| UPDATE_DATE | Text | 15 | <null> | | | O | | Reserved for future use, to reflect the feature capture date when data is added outside of the photogrammetric compilation process. |
| NAME | Text | 50 | <null> | | | R (if provided) | City of Columbia | Common/Local Name for stream features. Not intended for GNIS compatibility. Provided by the City of Columbia, MO. |
| NHD_FTYPE | Integer | | 0 | Y | O | R | Pinnacle | Type of NHD network element. This attribute is a code identifying the Feature subtype (see domain list for values). |



| Name (Alias) | Type | Length | Default Value | Domain | Index | System, Required, Optional | Data Source | Description |
|--------------|--------------|--------|---------------|--------|-------|----------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NHD_FCODE | Integer | | <null> | | | O | NHD | Numeric value that encodes the type and values for a set of characteristics for an NHD feature. This five-digit code has two parts: the first three digits encode the feature type; the last two digits encode values for a set of characteristics associated with the feature. |
| PK_COM_ID | Long Integer | 10 | <not null> | | PK | O | Pinnacle | Assigned by Pinnacle, this attribute is a unique identifier of each hydrology drain element in the network to support NHD modeling. |
| 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 |
| THICKNESS | Double | 19 | | | | R | AutoCAD | Weight of feature |

Feature Code Definitions (Domain)

| COD E | DESCRIPTION | Level | Color | Weight | Style | Description | Capture Rules |
|-------|--------------------------------------------------------------------------------|-------|-------|--------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | PL_WATR_STREAM_INT (USGS Equivalent: STREAM_RIVER_INT- intermittent) | 30 | 30 | 0 | 0 | Defined by USGS classification based on the quad map for 1981. A stream feature with an average width GREATER than 10' wide. | Contains water for only part of the year, but more than just after rainstorms and at snowmelt. Collect the visible/apparent centerline of water oriented in the direction of flow. |
| 2 | PL_WATR_STREAM_PHANTOM | 31 | 31 | 0 | 0 | A centerline abstraction to facilitate hydrologic modeling through all open (Polygon) bodies of water (Streams, Rivers, Lakes and Ponds). | Collect with shortest path through water polygon feature. Line should be oriented in the direction of flow. |
| 3 | PL_WATR_STREAM_HIDDEN | 32 | 32 | 0 | 0 | Hidden Waterbody: A centerline abstraction of an underground culvert pipe, box culvert, or hidden water body (portion under a bridge). Used to facilitate hydrologic modeling between visible water bodies. | Collect centerline of the underground feature to maintain graphic connectivity and flow of hydrological model. Snap to the intermittent Stream_River or Artificial Path features at either end. Line should be oriented in the direction of flow. |



| COD E | DESCRIPTION | <i>Level</i> | <i>Color</i> | <i>Weight</i> | <i>Style</i> | <i>Description</i> | <i>Capture Rules</i> |
|--------------|------------------------------------------------------------------|--------------|--------------|---------------|--------------|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4 | PL_WATR_STREAM_CONNECT | 33 | 33 | 0 | 0 | Hydrographic Connector Used to maintain connectivity in locations where connection between features is not apparent. | Collect centerline of the hidden connector feature to maintain graphic connectivity and flow of hydrological model. Snap to the intermittent Stream_River or Artificial Path features at either end. Line should be oriented in the direction of flow. |
| 5 | PL_WATR_STREAM (USGS Equivalent: STREAM_RIVER – Perennial) | 25 | 25 | 0 | 0 | Defined by USGS classification based on the quad map for 1981. Water feature with an average width GREATER than 10' wide. | Contains water throughout the year, except for infrequent periods of severe drought. Collect the centerline of the stream feature. |
| 6 | PL_WATR_STREAM_NC | 68 | 68 | 0 | 0 | Water feature with an average width GREATER than 10' wide. Not classified by USGS. | Contains water throughout the year, except for infrequent periods of severe drought. Collect the centerline of the stream feature. |

AutoCAD Unique Attributes

| LAYER | COLOR | LINETYPE | THICKNESS |
|--------------------------------------------------------------------------|--------------|-----------------|------------------|
| PL_WATR_STREAM_INT (USGS Equivalent: STREAM_RIVER_INT- intermittent) | 160 | HYDRO | 0 |
| PL_WATR_STREAM (USGS Equivalent: STREAM_RIVER – Perennial) | 160 | HYDRO | 0 |
| PL_WATR_STREAM_PHANTOM | 160 | HYDRO | 0 |
| PL_WATR_STREAM_HIDDEN | 160 | HYDRO | 0 |
| PL_WATR_STREAM_CONNECT | 160 | Continuous | 0 |
| PL_WATR_STREAM_NC | 160 | HYDRO | 0 |

Hydrology_Annotation (PL_WATR_TEXT)

| | |
|--------------------------------------------------------------------------------------------|----------|
| Reference Scale | 1:1,200 |
| Font Size | 10 |
| Font | Arial |
| Color | 253 |
| VerticalAlignment | Baseline |
| HorizontalAlignment | Left |
| Note: All other fields are default values generated by the ESRI Import CAD Annotation Tool | |



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