Texas Department of Transportation Submission Standards
For Right of Way (ROW) Mapping Data in the ArcGIS Format

All current and future Right of Way Mapping projects and work authorizations will be subject to these submission standards, with the goal of eliminating the submission of ROW Maps under the old standards. The ROW Maps will be replaced with Geo-referenced parcel data in GIS format to be used in TxDOT's Online Real Property Asset Map (Virtual ROW Map). See the ROW Preliminary Procedures for the Authority to Proceed Manual, Chapter 4 for details.
http://onlinemanuals.txdot.gov/txdotmanuals/ppr/ppr.pdf

1. TxDOT ROW Geo-Database Template

The required geo-referenced parcel data will be submitted in ArcGIS 10.6.1 format or the current version in use by the State and in the format of the ROW Geo-Database Template.

The current TxDOT ROW Geo-Database Template "ROW_Parcels_Edits_v2" for the ROW Delineation will be provided by TxDOT. The template will also be available to download from the ROW Division's webpage on TxDOT's internet site (txdot.gov).

2. Coordinate System of Template

The template's XY Coordinate System is Geographic coordinates (longitude and latitude), North American Datum of 1983 in Decimal Degrees (8 or more place after the decimal point).

3. Features in the Template

The template contains a Feature Dataset named 'ROW_Parcels_Edits' and that dataset contains the following features:

1. Existing Right of Way Points
2. Small Cell Location Points
3. Survey Control Points
4. Existing Right of Way Lines
5. Right of Way Centerline
6. Right of Way Pipeline Leases
7. Right of Way Utilities
8. Access Control/Denial Lines
9. Disposition Tracts

10. Existing Right of Way Parcels
11. Right of Way Leases
12. Proposed Acquisition Parcels
13. Parent Tract
14. Preliminary Proposed Right of Way

4. Feature Attributes or Fields

Each feature (point, line or polygon) has a unique table comprised of some common attributes or fields. See the ROW Preliminary Procedures for the Authority to Proceed Manual, Chapter 4 for details. http://onlinemanuals.txdot.gov/txdotmanuals/ppr/ppr.pdf

5. Rename Geo-Database Template to ROW CSJ prior to Submission

Use ArcCatalog to rename the 'ROW_Parcels_Edits_v2.gdb' Template to the ROW CSJ (RCSJ) Project number prior to submission.

Example: RCSJ 2552-04-041.
Rename the template: 'ROW_Parcels_255204041_v2.gdb'.

For revised or additional submissions of the same project, rename the template:
'ROW_Parcels_255204041a_v2.gdb' 1st submission,
'ROW_Parcels_255204041b_v2.gdb' 2nd submission, etc.

6. Conversion of Survey Data to ArcGIS and Template Format

The attribute table of geo-referenced features created outside the template must be exactly the same as those in the template before you can append them into the features in the template.

The conversion from the native survey data, GeoPak, MircoStation or CAD files used in the preparation of the property descriptions and parcel plats to the coordinate system and format of the geo-database template can be accomplished in a number of different ways in different programs and in ArcGIS depending on the origin and format of the survey data.

Since no one set of instructions will fit all the different variables of data collection, data processing and/or data conversion software, the only requirement will be that the feature data is geospatially correct and submitted to the State in the exact format of the template.

7. Requirements for ArcGIS Deliverables

ROW geo-database template shall be populated with all required ROW features for each stage of submission. The following is an outline in chronological order of the requirements for ArcGIS mapping deliverables:

ROW (ArcGIS) Geo-Database Template populated with the schematic ROW footprint parcels and schematic alignment.

ROW (ArcGIS) Geo-Database Template populated with the current surveyed and/or preliminary parcels for each submission, current alignment and project control points. An updated Geo-Database will be submitted as the parcel submissions progress.

Geo-Database Template populated with the current final (signed and sealed) parcels for each submission and final alignment.