United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Oregon State Office
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Portland, Oregon 97208

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August 24, 2011

EMS TRANSMISSION 08/25/2011
Instruction Memorandum No. OR-2011-070
Expires: 9/30/2012

To: DMs, DSDs, Staff and Branch Chiefs

From: State Director, Oregon/Washington

Subject: Rights-of-Way Designation Areas Data Standard

Program Area: Lands and Realty.

Purpose: This instruction memorandum (IM) establishes the spatial data standard for Rights-of-Way (ROW) Designation Areas (Attachment 1). It defines how this type of data is to be captured in a Geographic Information System geodatabase, defines attributes used, and defines coding schemes (domains). The ROW Designation Areas spatial lines and polygons have been added to the corporate spatial data editing system.

Policy/Action: This data standard is to be followed for all ROW Designation Areas created through the planning process. The ROW Designation Areas data should be reviewed by all field offices and any needed corrections and/or additions made through established editing procedures.

Timeframe: This ROW Designation Areas Data Standard is effective immediately.

Budget Impact: None.

Background: All offices have a need for accurate and up-to-date spatial data for ROW Designation Areas. The draft data standard was issued under the IB-OR-2011-037, for review and comments. Comments received were analyzed and incorporated as appropriate. See Comments and Resolutions (Attachment 2).

Manual/Handbook Sections Affected: None.

Coordination: Information Bulletin IB-OR-2011-037, was issued to review the draft data standard and to solicit comments.

Contact: Any questions or comments can be directed either to Stan Frazier, State Data Administrator, at 503-808-6009, Pam Chappel, State Data Steward for ROW Designation Areas, at 503-808-6170, or Pamela Keller, Geographic Information Specialist, at 541-573-4486.

Districts with Unions are reminded to notify their unions of this IM and satisfy any bargaining obligations before implementation. Your servicing Human Resources Office or Labor Relations Specialist can provide you with assistance in this matter.

Signed by
Andrew M. Smith
Acting Associate State Director

Authenticated by
Paj Shua Cha
Records Section

2 Attachments
1 – Rights-of-Way Designation Area Data Standard (30pp)
2 – Comments and Resolutions (1pp)

Distribution
OC530 Tom Chatfield

Bureau of Land Management Oregon/Washington

Rights-of-Way Designation Areas Data Standard

August 15, 2011

Table of Contents

1. GENERAL INFORMATION 4
   - 1.1 ROLES AND RESPONSIBILITIES 4
   - 1.2 FOIA CATEGORY 4
   - 1.3 RECORDS RETENTION SCHEDULE(s) 5
   - 1.4 SECURITY/ACCESS/SENSITIVITY 5
2. DATASET OVERVIEW 5
   - 2.1 DESCRIPTION 5
   - 2.2 USAGE 5
   - 2.3 SPONSOR/AFFECTED PARTIES 6
   - 2.4 RELATIONSHIP TO OTHER DATASETS 6
   - 2.5 DATA CATEGORY/ARCHITECTURE LINK 6
     - 2.5.1 ROW_DSG DATA ORGANIZATION/STRUCTURE 6
     - 2.5.2 RELATIONSHIP TO THE DEPARTMENT OF THE INTERIOR ENTERPRISE ARCHITECTURE − DATA RESOURCE MODEL 7
3. DATA MANAGEMENT PROTOCOLS 9
   - 3.1 ACCURACY REQUIREMENTS 9
   - 3.2 COLLECTION, INPUT AND MAINTENANCE PROTOCOLS 9
   - 3.3 UPDATE FREQUENCY AND ARCHIVAL PROTOCOLS 10
   - 3.4 STATEWIDE MONITORING 10
4. ROW DESIGNATION AREAS GEODATABASE SCHEMA (simplified) 10
   - 4.1 ROW_DSG FEATURE DATASET 11
     - 4.1.1 ROW_DSG_POLY (ROW Designation Area Polygons) 11
     - 4.1.2 ROW_DSG_ARC (ROW Designation Area Lines) 11
   - 4.2 ROW_DSG_P FEATURE DATASET 11
     - 4.2.1 ROW_DSG_P_POLY (ROW Designation Area Proposed Polygons) 11
     - 4.2.2 ROW_DSG_P_ARC (ROW Designation Area Proposed Lines) 12
5. PROJECTION AND SPATIAL EXTENT 12
   - 5.1 SPATIAL ENTITY CHARACTERISTCS 12
6. ATTRIBUTE CHARACTERISTICS AND DEFINITIONS (In alphabetical order).....
   - 6.1 ACCURACY_FT 14
   - 6.2 ALTA_ROW_DSG 15

6.3 ALTB_ROW_DSG 15

6.4 ALTC_ROW_DSG 16

6.5 ALTD_ROW_DSG 16

6.6 BLM_ORG_CD 17

6.7 COORD_SRC 17

6.8 DEF_FEATURE 18

6.9 DSG_REASON 19

6.10 PLANID 19

6.11 ROW_DSG 20

6.12 VERSION_NAME 21

7. ASSOCIATED FILES OR DATABASES 22

8. LAYER FILES (PUBLICATION VIEWS) 22

9. EDITING PROCEDURES (TO BE ADDED LATER) 22

9.1 SNAPPING GUIDELINES 22

10. ABBREVIATIONS AND ACRONYMS USED IN THIS STANDARD 25

A. DOMAINS (VALID VALUES) 26

A.1 BLM_ORG_CD 26

A.2 COORD_SRC 27

A.3 DEF_FEATURE 27

A.4 PLANID 28

A.5 DSG_REASON 29

A.6 ROW_DSG 29

1. GENERAL INFORMATION

Dataset (Theme) Name: ROW DESIGNATION AREAS

Dataset (Feature Class): ROW_ DSG_POLY, ROW_ DSG_P_POLY, ROW_DSG_ARC, ROW_DSG_P_ARC

1.1 ROLES AND RESPONSIBILITIES

Roles	Responsibilities
State Data Steward	The State Data Steward, Pamela Chappel, at 503-808-6170, is responsible for approving data standards and business rules, for developing Quality Assurance/Quality Control procedures, and ensuring that data is managed as a corporate resource. The State Data Steward coordinates with field office data stewards, the state data administrator, Geographic Information System (GIS) coordinators, and with national data stewards. The State Data Steward reviews geospatial metadata for completeness and quality.
Lead GIS Specialist	The Lead GIS Specialist, Pamela Keller, at 541-576-4486, works with data stewards to interpret business needs into GIS applications and derive data requirements and participates in the development of data standards. The GIS specialist coordinates with system administrators and GIS coordinators to manage the GIS databases.
State Data Administrator	The State Data Administrator, Stanley Frazier, at 503-808-6009, provides information management leadership, data modeling expertise, and custodianship of the state data models. The State Data Administrator ensures that defined processes for development of data standards and metadata are followed, and that they are consistent, and complete. The State Data Administrator is responsible for making data standards and metadata accessible to all users. The State Data Administrator coordinates with data stewards and GIS coordinators to respond to national spatial data requests.
State Records Administrator	The State Records Administrator, Sherrie Reid, at 503-808-6655, is responsible for identifying any Privacy issues related to spatial data. The State Records Administrator also provides direction and guidance on data release and fees. The State Records Administrator ensures that data has been classified under the proper records retention schedule and determine appropriate Freedom of Information Act category.

Table 1 Roles and Responsibilities

1.2 FOIA CATEGORY

Public

1.3 RECORDS RETENTION SCHEDULE(s)

GRS BLM 20/5

TEMPORARY. Delete when no longer needed for administrative, legal, audit, or other operational purposes.

1.4 SECURITY/ACCESS/SENSITIVITY

The Rights-of-Way (ROW) Designation Areas set of themes do not require any additional security other than that provided by the General Support System (the hardware/software infrastructure of the Oregon/Washington (OR/WA) Bureau of Land Management (BLM)).

This data is not sensitive and there are no restrictions on access to this data either from within the BLM or external to the BLM.

There are no Privacy issues or concerns associated with these data themes. Privacy Impact Assessment has been completed.

2. DATASET OVERVIEW

2.1 DESCRIPTION

This dataset represents areas where ROW granted by the BLM are not allowed (excluded), allowed with special considerations (avoidance), or generally permitted (corridor). All BLM surface jurisdiction lands are covered by one of these ROW designation areas. The designations are determined through the Land Use Planning process (Resource Management Plan (RMP)). There are four possible designations: Avoidance, Exclusion, Corridor, and Open. The Avoidance designation is described as the area where ROW and other Land Use Authorizations are only allowed, if compatible with existing land designations, and management direction. The ROW applications for areas within the Avoidance designation will likely require National Environmental Policy Act processing. The Exclusion area designation does not allow ROWs, and other Land Use Authorizations. The Corridor designation includes existing ROW corridors, as well as communication sites, and other land use authorization, plus additional land as appropriate for potential future non-conflicting development. The Open designation is remaining BLM surface jurisdiction, and ROW applications will be processed in a timely manner.

Proposed designations (ROW_DSG_P) contains alternative classifications. The selected alternative is transferred to the final designations (ROW_ DSG) and retained until the next planning cycle.

2.2 USAGE

This dataset is used for depicting the ROW designation areas on maps, for overlaying in GIS with other data themes, and for determining feasibility and impact of project proposals. The BLM receives ROW applications for power, communications, transportation, or other development on Federal lands. The location of these applications is overlaid on the ROW_ DSG areas, and that designation provides a “first cut” in the process to approve, or deny the application. The DSG_REASON attribute (see Section 7, Attributes) provides information about why a particular area received the classification it did.

2.3 SPONSOR/AFFECTED PARTIES

The sponsor for this dataset is the Deputy State Director, Resource Planning, Use, and Protection. The ROW_ DSG is defined by and specific to BLM. Matching interagency data across the landscape is not necessary. Our non-governmental partners and the general public are affected to the extent that ROW_ DSG is part of the RMPs that determine management on BLM lands. Implementation of an RMP may preclude granting of ROW or apply restrictions in certain areas because of potential impact to natural resources.

2.4 RELATIONSHIP TO OTHER DATASETS

This dataset has no direct relationship to other datasets. Actual ROWs are found on the Easement and ROW (ESMTROW) dataset. The ROW_ DSG depicts designated areas of different ROW management restrictions. The ESMTROW contains the spatial locations of actual ROW encumbrances.

2.5 DATA CATEGORY/ARCHITECTURE LINK

These data themes are a portion of the Oregon Data Framework (ODF). The ODF utilizes the concept of inheritance to define specific instances of data. The ODF divides all OR/WA resource-related data into three general categories: Activities, Resources, and Boundaries. These general categories are broken into sub-categories that inherit spatial characteristics and attributes from their parent category. These sub-categories may be further broken into more specific groups until you get to a basic dataset that cannot be further sub-divided. Those basic datasets inherit all characteristics of all groups/categories above them. The basic datasets are where physical data gets populated (those groups/categories above them do not contain actual data, but set parameters that all data of that type must follow).

See the ODF, Figure 2, for a simplified schematic of the entire ODF showing the overall organization and entity inheritance. The ROW_DSG entities are highlighted. For additional information about the ODF, contact:

Stanley Frazier
OR/WA State Data Administrator
Bureau of Land Management
P.O. Box 2965
Portland, OR 97208
503-808-6009

2.5.1 ROW_DSG DATA ORGANIZATION/STRUCTURE

For ROW_ DSG, the categories/groups that the dataset is part of are:

ROW_ DSG Polygon:
ODF
    Boundaries
        Special Management Area
            Existing Special Management Area
                ROW_ DSG_POLY

Proposed Special Management Area
ROW_ DSG_P_POLY

ROW_ DSG Line:
ODF
Boundaries
Political Admin SMA Line
ROW_ DSG_ARC
ROW_ DSG_P_ARC

2.5.2 RELATIONSHIP TO THE DEPARTMENT OF THE INTERIOR ENTERPRISE ARCHITECTURE−DATA RESOURCE MODEL

The Department of the Interior s (DOI) Enterprise Architecture contains a component called the Data Resource Model. This model addresses the concepts of Data Sharing, Data Description, and Data Context. This data standard provides information needed to address each of those areas. Data sharing is addressed through complete documentation and simple data structures which make sharing easier. Data description is addressed through the section on Attribute Descriptions. Data context is addressed through the data organization and structure portions of this document. In addition, the DOI Data Resource Model categorizes data by use of standardized Data Subject Areas and Information Classes. For this dataset, these are as follows:

- Data Subject Area: Geospatial
- Information Class: Location

For a complete list of all DOI Data Subject Areas and Information Classes contact:

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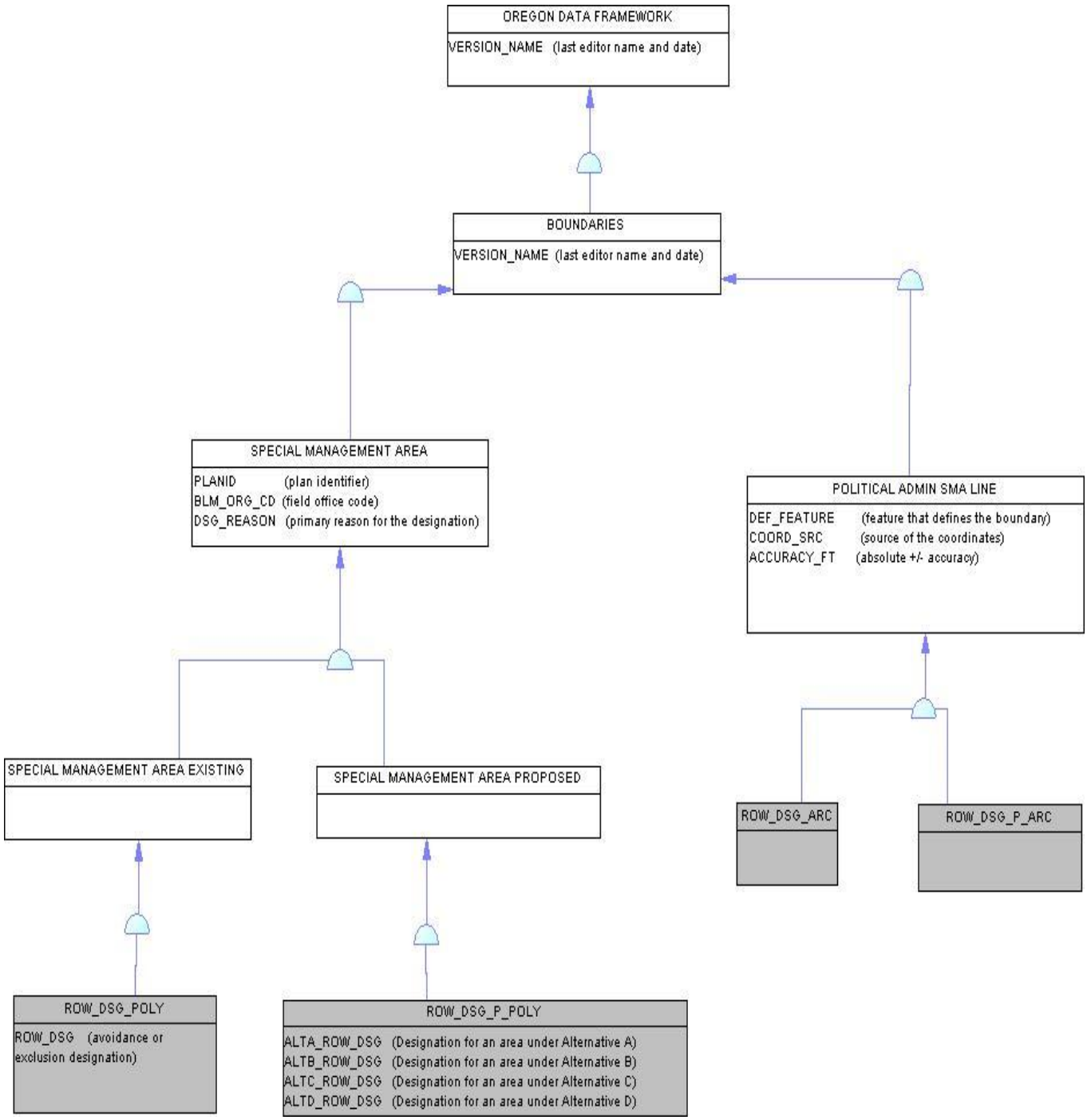

Figure 1 Data Organization Structure

3. DATA MANAGEMENT PROTOCOLS

3.1 ACCURACY REQUIREMENTS

Boundary themes (ROW_ DSG is a boundary theme) require a higher level of accuracy than other themes. This is because those boundaries often divide very different management and regulation. Some boundaries can, by their nature or definition, be accurately located and others cannot. Special Management Area (SMA) (including ROW_DSG) and political and administrative boundary perimeter lines must be defined and segmented accordingly. Individual boundary segment attributes (Feature Level Metadata) provide the information needed to answer questions about why a boundary line is where it is and how accurately it is located. These theme groups, therefore, require feature class pairs (feature datasets), polygons for the area, and lines for the perimeter.

3.2 COLLECTION, INPUT AND MAINTENANCE PROTOCOLS

When a new land use plan (usually an RMP) is begun, the district data steward and GIS Coordinator work together with the appropriate Interdisciplinary Team (IDT) members to determine the inputs to a new ROW_DSG_P dataset (proposed ROW avoidance and exclusion designations). These inputs may include special status species areas, cultural, recreation, and administrative sites, Visual Resource Inventory, Visual Resource Management classes, Wilderness, Wilderness Study Areas, lands with wilderness characteristics (inventory), lands protected for their wilderness characteristics (RMP decision), and other special management designations. Existing and proposed ROW and other land use authorization areas are included in the zones and designated as, "CORRIDOR." The majority of the inputs for creating ROW_DSG are existing GIS datasets and spatial accuracy is expected to be identical to the accuracy of the source dataset. Note that any of these input spatial features might be buffered according to current management guidance (e.g., sage grouse leks buffered to 1 kilometer or more). The accuracy of the buffered line is still the accuracy of the source data. Because the inputs will probably overlap for any given acre of ground, the plan IDT must also decide which has priority. The full decision tree is documented in the metadata for the land use plan. The strongest or highest priority reason is captured in the DSG_REASON attribute.

The ROW_DSG_P is developed during the planning process. The attributes are identical to ROW_ DSG, except there are designations for each plan alternative (ALTA_ROW_DSG, ALTB_ROW_DSG, etc.). Four alternatives are included in the ROW_DSG_P_POLY schema. More can be added, if necessary, for a particular plan. When the final plan is approved, ROW_DSG_P_POLY is dissolved on the selected alternative (e.g., ALTC_ROW_ DSG), dropping the other alternatives, but keeping the other attributes. Dropping the alternative prefix from the ROW_DSG attribute and selecting BLM jurisdiction only, is all that is needed to finish the creation of the new ROW_DSG_POLY. The new ROW_DSG_ARC is created from ROW_DSG_POLY (poly to line tool) and attributes transferred from ROW_DSG_P_ARC. The original ROW_DSG_P dataset is archived along with the rest of the RMP development data, and ROW_DSG is maintained in the corporate Spatial Data Engine (SDE).

Every acre of BLM surface jurisdiction must have a ROW area designation. The preferred method of capture is to combine all the inputs plus surface jurisdiction with a GIS union. The result is then clipped to the RMP boundary. It is important to match adjacent districts. For display and reporting, BLM surface jurisdiction is selected. The BLM surface jurisdiction at the time of the RMP is retained as part of the ROW_DSG theme. Over time, with changes in ownership, there may be BLM lands with no

ROW_DSG designation. Depending on the RMP, it may be allowable to apply an adjacent designation to the new BLM parcel. The archived ROW_DSG_P dataset can be used to make this determination.

In November 2008, the Western States Energy Corridor (WEC) Programmatic Environmental Impact Statement/Record of Decision (EIS/ROD) was finalized. This EIS amended existing RMPs and identified new/future development corridors. The spatial data provided with the final EIS modify or create new polygons in ROW_DSG or ROW_DSG_P with ROW_DSG = "CORR." Where the provided corridor data falls outside of an established corridor, the width of the corridor should be increased to include the existing corridor, and the WEC. If the WEC is significantly outside of an established corridor, then both should be retained.

Required attributes have an accuracy of at least ninety percent.

3.3 UPDATE FREQUENCY AND ARCHIVAL PROTOCOLS

The ROW_DSG dataset is relatively static. Except for minor corrections, ROW_DSG changes only through an RMP or RMP Amendment. It is important to understand which changes fall in the "minor" category and which require a plan amendment. Minor changes are small boundary line adjustments resulting from better digital data or corrections. Wording in the RMP may allow for other minor updates such as extension of an ROW_DSG polygon into adjacent BLM land acquired after the ROD date. The ROW_DSG_P is archived along with the complete RMP project data when the RMP is completed and becomes active. A new ROW_DSG_P is created for each new land use plan. The ROW_DSG is maintained in the corporate SDE database. It is archived annually.

It is also the responsibility of the State Data Steward to ensure that any database external to the GIS remains current. The district GIS Coordinator will approve update processes and provide assistance and oversight. At this time, there are no digital databases associated with ROW_DSG, but this responsibility extends to paper records. Reports or tables containing ROW_DSG acreages must be checked against the GIS acres and ideally, should come directly from the GIS that supplied the official ROW area designation acres for the relevant RMP.

3.4 STATEWIDE MONITORING

The State Data Steward, in conjunction with the Lead GIS Specialist, and district data stewards should review the ROW_DSG theme across the state, at least once per year. For ROW_DSG, all that is required is a relatively quick look at the final ROW_DSG designations to check for:

A. Data gaps and holes due to BLM land acquisitions.

B. Incorrect classifications due to changes in protected areas or program policy or plan amendments.

4. ROW DESIGNATION AREAS GEODATABASE SCHEMA (Simplified)

General Information: Attributes are listed in the order they appear in the geodatabase feature class. The order is an indication of the importance of the attribute for theme definition and use. There are no aliases unless specifically noted. The domains used in this data standard can be found in Appendix A. These are

the domains at the time the data standard was approved. Domains can be changed without a re-issue of the data standard.

For a complete list of domains, contact:

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OR/WA State Data Administrator
Bureau of Land Management
P.O. Box 2965
Portland, OR 97208
503-808-6009

4.1 ROW_DSG FEATURE DATASET

4.1.1 ROW_DSG_POLY (ROW Designation Area Polygons)

Attribute Name	Data Type	Length	Default Value	Required?	Domain
PLANID	String	100		Yes	dom_PLANID
BLM_ORG_CD	String	5	OR000	Yes	dom_BLM_ORG_CD
ROW_DSG	String	10		Yes	dom_ROW_DSG
DSG_REASON	String	10		No	dom_DSG_REASON
VERSION_NAME	String	50	InitialLoad	Yes	

4.1.2 ROW_DSG_ARC (ROW Designation Area Lines)

Attribute Name	Data Type	Length	Default Value	Required?	Domain
DEF_FEATURE	String	25		Yes	dom_DEF_FEATURE
COORD_SRC	String	7		Yes	dom_COORD_SRC
ACCURACY_FT	Short Integer		-1	No	
VERSION_NAME	String	50	InitialLoad	Yes	

4.2 ROW_DSG_P FEATURE DATASET

4.2.1 ROW_DSG_P_POLY (ROW Designation Area Proposed Polygons)

Attribute Name	Data Type	Length	Default Value	Required?	Domain
PLANID	String	100		Yes	dom_PLANID
BLM_ORG_CD	String	5	OR000	Yes	dom_BLM_ORG_CD
ALTA_ROW_DSG	String	10		Yes	dom_ROW_DSG
ALTB_ROW_DSG	String	10		Yes	dom_ROW_DSG
ALTC_ROW_DSG	String	10		No	dom_ROW_DSG
ALTD_ROW_DSG	String	10		No	dom_ROW_DSG
DSG_REASON	String	10		No	dom_DSG_REASON

VERSION_NAME	String	50	InitialLoad	Yes	

4.2.2 ROW_DSG_P_ARC (ROW Designation Area Proposed Lines)

Attribute Name	Data Type	Length	Default Value	Required?	Domain
DEF_FEATURE	String	25		Yes	dom_DEF_FEATURE
COORD_SRC	String	7		Yes	dom_COORD_SRC
ACCURACY_FT	Short Integer		-1	No	
VERSION_NAME	String	50	InitialLoad	Yes	

5. PROJECTION AND SPATIAL EXTENT

All feature classes and feature datasets are in Geographic, North American Datum 83. Units are decimal degrees. Spatial extent (area of coverage) includes all lands managed by the BLM in OR/WA and all lands with BLM surface jurisdiction should be covered by a ROW Designation Area. See the metadata for this dataset for more precise description of the extent.

6. SPATIAL ENTITY CHARACTERISTCS

ROW_DSG_POLY
Description: Instance of SMAs Existing group.
Geometry: Polygons form a continuous, "wall-to-wall," cover across BLM lands. Polygons may not overlap.
Topology: Yes. ROW_DSG_POLY lines are coincident with ROW_DSG_ARC lines and together make the feature dataset, ROW_DSG.
Integration Requirements: None.

ROW_DSG_P_POLY
Description: Instance of SMAs Proposed group.
Geometry: Polygons may overlap, but only under differing alternatives.
Topology: Yes. ROW_DSG_P_POLY lines are coincident with ROW_DSG_P_ARC lines and together make the feature dataset, ROW_DSG_P.
Integration Requirements: None.

ROW_DSG_ARC
Description: Instance of Political Administration SMA Line group. Lines making up the area perimeters of ROW_AREA_DSG polygons, and segmented, as needed to indicate a change in either what defines the section of boundary, and/or the source of the actual GIS coordinates.
Geometry: Simple, non-overlapping lines that are split between endpoints, as needed.
Topology: Yes. ROW_DSG_POLY lines are coincident with ROW_DSG_ARC lines, and together make the feature dataset, ROW_DSG.
Integration Requirements: Line segments must be coincident with the source data indicated by attributes DEF_FEATURE and COORD_SRC either through duplication or snapping.

ROW_DSG_P_ARC
Description: Instance of Political Admin SMA Line group. Lines making up the area perimeters of ROW_DSG_P polygons, and segmented, as needed to indicate a change in either what defines the section of boundary, and/or the source of the actual GIS coordinates.
Geometry: Simple, non-overlapping lines that are split between endpoints as needed.
Topology: Yes. ROW_DSG_P_POLY lines are coincident with ROW_DSG_P_ARC lines and together make the feature dataset, ROW_DSG_P.
Integration Requirements: Line segments must be coincident with the source data indicated by attributes DEF_FEATURE and COORD_SRC either through duplication or snapping.

7. ATTRIBUTE CHARACTERISTICS AND DEFINITIONS

In alphabetical order

7.1 ACCURACY_FT

Geodatabase Name BLM Structured Name	ACCURACY_FT ACCURACY_FEET_MEASURE
Description	Inherited from Entity POLITICAL ADMIN SMA LINE Used in Feature Classes: ROW_DSG_ARC ROW_DSG_P_ARC <u>Definition</u> How close, in feet, the spatial GIS depiction is to the actual location on the ground. There are several factors to consider in GIS error: scale and accuracy of map-based sources, accuracy of Global Positioning System equipment, and the skill level of the data manipulators. A value of "0" indicates no entry was made. This is the correct value when the COORD_SRC is another GIS theme (Digital Line Graphs (DLG), Geographic Coordinate Database (GCD), and Digital Elevation Model (DEM)) because the accuracy is determined by that theme. If COORD_SRC is MAP (digitized from a paper map) or GPS, however, a value of "0" indicates a missing value that should be filled in either with a non-zero number or "-1." A value of "-1" indicates that the accuracy is unknown and no reliable estimate can be made. Examples: 40, -1, 0
Required/Optional	Optional
Domain (Valid Values)	No domain
Data Type	Short Integer

7.2 ALTA_ROW_DSG

Geodatabase Name BLM Structured Name	ALTA_ROW_DSG Alternative_A_ROW_Designation_Area_Code
Description	Not Inherited Used in Feature Classes: ROW_DSG_P_POLY <u>Definition</u> The proposed ROW Designation Area for Alternative A (first alternative) of the plan. Each polygon receives a designation. The ROW here stands for "Rights-of-Way and other Land Use Authorizations."
Required/Optional	Required
Domain (Valid Values)	dom_ROW_DSG
Data Type	Variable characters (VCHAR) 10

7.3 ALTB_ROW_DSG

Geodatabase Name BLM Structured Name	ALTB_ROW_DSG Alternative_B_ROW_Designation_Area_Code
Description	Not inherited Used in Feature Classes: ROW_DSG_P_POLY <u>Definition</u> The proposed ROW Designation Area for Alternative B (second alternative) of the plan. Each polygon receives a designation. The ROW here stands for "Rights-of-Way and other Land Use Authorizations."
Required/Optional	Required
Domain (Valid Values)	dom_ROW_ DSG
Data Type	VCHAR10

7.4 ALTC_ROW_DSG

Geodatabase Name BLM Structured Name	ALTC_ROW_DSG Alternative_C_ROW_Designation_Area_Code
Description	Not Inherited Used in Feature Class: ROW_DSG_P_POLY <u>Definition</u> The proposed ROW Designation Area for Alternative C (third alternative), if present, of the plan. Each polygon receives a designation. The ROW here stands for "Rights-of-Way and other Land Use Authorizations."
Required/Optional	Optional
Domain (Valid Values)	dom_ROW_DSG
Data Type	VCHAR10

7.5 ALTD_ROW_DSG

Geodatabase Name BLM Structured Name	ALTD_ROW_DSG Alternative_D_ROW_Designation_Area_Code
Description	Not Inherited Used in Feature Class: ROW_DSG_P_POLY <u>Definition</u> The proposed ROW Designation Area for Alternative D (fourth alternative), if present, of the plan. Each polygon receives a designation. The ROW here stands for "Rights-of-Way and other Land Use Authorizations."
Required/Optional	Optional
Domain (Valid Values)	dom_ROW_DSG
Data Type	VCHAR10

7.6 BLM_ORG_CD

Geodatabase Name BLM Structured Name Description

7.8 DEF_FEATURE

Geodatabase Name	DEF_FEATURE
BLM Structured Name	DEFINING_FEATURE_CODE
Description	Inherited from Entity POLITICAL ADMIN SMA LINE Used in Feature Classes: ROW_DSG_ARC ROW_DSG_P_ARC <u>Definition</u> The physical or legal feature that defines the boundary according to the legal boundary description. In general, the lowest level defining feature, but it depends on how the boundary segment is actually defined. For example, SUBDIVISION rather than COUNTY, unless, the boundary segment is specifically defined as following the COUNTY boundary. If the line is copied from another theme and already has DEF_FEATURE, it should be reviewed, and may need to be changed for use in this dataset.
Required/Optional	Required
Domain (Valid Values)	dom_DEF_FEATURE
Data Type	VCHAR25

7.9 DSG_REASON

Geodatabase Name	DSG_REASON
BLM Structured Name	DESIGNATION_REASON_CODE
Description	Inherited from Entity SPECIAL MANAGEMENT AREA Used in Feature Classes: ROW_DSG_POLY ROW_DSG_P_POLY Definition The dominant (strongest, least likely to change) reason for the particular designation. The attribute identifies the entity that was used to create the polygon, and, therefore, acts as polygon feature-level metadata.
Required/Optional	Optional
Domain (valid values)	dom_DSG_REASON
Data Type	VCHAR10

PLANID

Geodatabase Name	PLANID
BLM Structured Name	Plan_Name_Text
Description	Inherited from Entity SPECIAL MANAGEMENT AREA Used in Feature Class: ROW_DSG_POLY ROW_DSG_P_POLY Definition The name of the Project Plan Area for the plan associated with an activity, filled in when the plan is final.
Required/Optional	Required Only When PLAN_STAGE=FINAL
Domain	dom_PLANID
Data Type	VCHAR100

7.10 ROW_DSG

Geodatabase Name BLM Structured Name	ROW_DSG RIGHT-OF-WAY_DESIGNATION_AREA_CODE
Description	Not Inherited Used in Feature Classes: ROW_DSG_POLY <u>Definition</u> The ROW area designation on BLM managed lands. Each polygon receives a designation. The ROW here stands for "Rights-of-Way and other Land Use Authorizations."
Required/Optional	Optional
Domain (valid values)	dom_ROW_DSG
Data Type	VCHAR10

7.11 VERSION_NAME

Geodatabase Name BLM Structured Name	VERSION_NAME GEODATABASE_VERSION_TEXT
Description	Inherited from Entity ODF Only appears in the transactional (edit) version. Public version (which is also the version used internally for mapping or analysis) does not contain this attribute. Used in Feature Classes: ROW_DSG_ARC ROW_DSG_POLY ROW_DSG_P_ARC ROW_DSG_P_POLY <u>Definition</u> Name of the corporate geodatabase version previously used to edit the record. InitialLoad feature has not been edited in ArcSDE. Format: username.XXX-mmddyy-hhmmss = version name of the last edit (hours might be a single digit; leading zeros are trimmed for hours only). XXX = theme abbreviation. Example: sfrazier.GRA-121211-111034
Required/Optional	Required
Domain (valid values)	No Domain
Data Type	VCHAR50

8. ASSOCIATED FILES OR DATABASES

None.

9. LAYER FILES (PUBLICATION VIEWS)

Master corporate feature classes/datasets maintained in the edit database (currently orsoedit) are "published" to the user database (currently orsovctr) in several ways:

A. Copied completely with no changes (replicated).

B. Copied with no changes except to omit one or more feature classes from a feature dataset.

C. Minor changes made (e.g., clip, dissolve, union with ownership) in order to make the data easier to use.

These "publication feature classes" are indicated by "PUB" in their name. They are created through scripts that can be automatically executed and are easily rebuilt from the master (orsoedit) data whenever necessary.

Layer files are not new data requiring storage and maintenance but point to existing data. They have appropriate selection and symbolization for correct use and display of the data. They provide the guidance for data published on the web. Layer files are created by simple, documented processes, and can be deleted and recreated at any time.

All datasets are published, both internally and externally, with the attribute VERSION_NAME removed (for Privacy reasons).

A Layer File for ROW_DSG_POLY will be created that is solid fill shaded with standard colors.

ROW_DSG_ARC will not be published to orsovctr, but is always available in orsoedit.

ROW_DSG_P are temporary datasets tied to particular planning efforts and will not be published

10. EDITING PROCEDURES

Please read the "Collection, Input and Maintenance," section. To avoid overlapping polygons on the same area, polygons from different input themes are incorporated with the Union tool (spatial overlay), not copied. Union, rather than Intersect, is used to prevent unintended data loss.

10.1 SNAPPING GUIDELINES

Where line segments with different COORD_SRC meet, the most accurate or important in terms of legal boundary representation are kept unaltered, and other lines snapped to them. In general, the hierarchy of importance is Landlines (GCD points/lines) first, with DLG or SOURCEL next, then DEM, and MAP

last.

When snapping to the data indicated in COORD_SRC (as duplicating opposed to with copy/paste), be sure there are exactly the same number of vertices in the target and source theme arcs.

When the DEF_FEATURE is “SUBDIVISION,” snap the line segment to GCD points and make sure there are the same number of vertices in the line as GCD points.

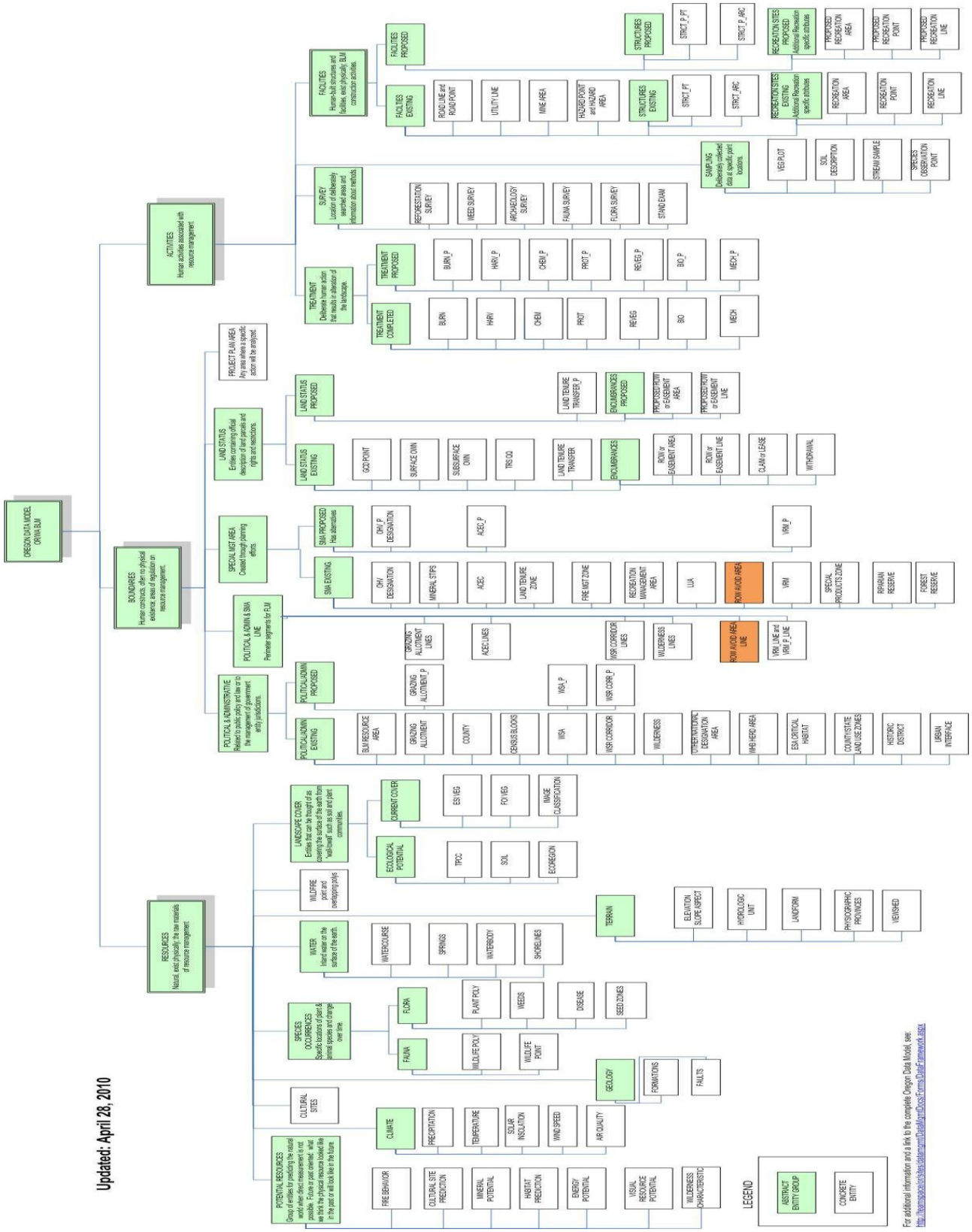

Figure 2 Oregon Data Framework Overview

11. ABBREVIATIONS AND ACRONYMS USED IN THIS STANDARD

Does not include abbreviations/acronyms used as codes for particular data attributes.

Abbreviations	Descriptions
BLM	Bureau of Land Management
DEM	Digital Elevation Model
DLG	Digital Line Graphs
DSG	Designation
FOIA	Freedom of Information Act
GCD	Geographic Coordinate Database
GIS	Geographic Information System
IDT	Interdisciplinary Team
NAD	North American Datum
NARA	National Archives and Records Administration
ODF	Oregon Data Framework
OR/WA	Oregon / Washington
RMP	Resource Management Plan
ROW	Rights-of-Way and other land use authorizations
SDE	Spatial Data Engine
SMA	Special Management Area
WSA	Wilderness Study Area

Table 2 Abbreviations/Acronyms Used

A. DOMAINS (VALID VALUES)

The domains listed below are those that were in effect at the time the data standard was approved and may not be current. Contact the State Data Administrator for currents lists:

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OR/WA State Data Administrator
Bureau of Land Management
P.O. Box 2965
Portland, OR 97208
503-808-6009

A.1 BLM_ORG_CD [Back]

OR000	OR000−Oregon/Washington BLM
ORB00	ORB00−Burns District Office
ORB05	ORB05−Three Rivers Field Office
ORB06	ORB06−Andrews Field Office
ORC00	ORC00−Coos Bay District Office
ORC03	ORC03−Umpqua Field Office
ORC04	ORC04−Myrtlewood Field Office
ORE00	ORE00−Eugene District Office
ORE05	ORE05−Siuslaw Field Office
ORE06	ORE06−Upper Willamette Field Office
ORL00	ORL00−Lakeview District Office
ORL04	ORL04−Klamath Falls Field Office
ORL05	ORL05−Lakeview Field Office
ORM00	ORM00−Medford District Office
ORM05	ORM05−Butte Falls Field Office
ORM06	ORM06−Ashland Field Office
ORM07	ORM07−Grants Pass Field Office
ORM08	ORM08−Glendale Field Office
ORP00	ORP00−Prineville District Office
ORP04	ORP04−Central Oregon Field Office
ORP06	ORP06−Deschutes Field Office
ORR00	ORR00−Roseburg District Office
ORR04	ORR04−Swiftwater Field Office
ORR05	ORR05−South River Field Office
ORS00	ORS00−Salem District Office
ORS04	ORS04−Cascades Field Office
ORS05	ORS05−Marys Peak Field Office
ORS06	ORS06−Tillamook Field Office
ORV00	ORV00−Vale District Office
ORV04	ORV04−Malheur Field Office
ORV05	ORV05−Baker Field Office
ORV06	ORV06−Jordan Field Office
ORW00	ORW00−Spokane District Office

ORW02	ORW02−Wenatchee Field Office
ORW03	ORW03−Border Field Office

A.2 COORD_SRC [Back]

Choices relevant to ROW_DSG shaded.

CFF	CFF−Lines duplicated or buffered from Cartographic Feature Files (USFS)
DEM	DEM−Digital Elevation Model (30m or better accuracy) used for creation of contours
DIS	DIS−Lines generated to connect discontinuous features
DLG	DLG−Lines duplicated or buffered from (24K scale accuracy) USGS Digital Line Graphs
DOQ	DOQ−Screen digitized linework over Digital Orthoquad backdrop
DRG	DRG−Screen digitized linework over Digital Raster Graphic backdrop
GCD	GCD−Lines snapped to Geographic Coordinate Database Points
GPS	GPS−Lines obtained from a Global Positioning System device
IMG	IMG−Linework derived from interpretation of satellite or other non-photographic imagery
MAP	MAP−Digitized linework from hardcopy map
MTP	MTP−Lines duplicated from Digital Master Title Plat
SOURCEL	SOURCEL−Source Layer from BLM GIS.
SRV	SRV−Survey methods were used to create the linework (e.g., COGO)
TIGER	TIGER−Tiger Data
TRS	TRS−Coordinates only given as a legal description (township, range, section)
UNK	UNK−Unknown coordinate source
WOD	WOD−WODDB Photogrammetric

A.3 DEF_FEATURE [Back]

Choices relevant to ROW_DSG shaded.

BLM_ADMIN	BLM_ADMIN−Bureau of Land Management administrative boundary
CLOSURE	CLOSURE−Closure extension. Used to close small gaps
COAST_3MILE	COAST_3MILE−Separating coastal water from territorial sea at 3−mile
COUNTY	COUNTY−County boundary
ELEVATION	ELEVATION−Line of common elevation
FENCE	FENCE−Boundary defined by a Fence line regardless of whether it forms part of a grazing unit
FOREST_SERVICE_ ADMIN	FOREST_SERVICE_ADMIN−Forest Service administrative boundaries
GRAZING_BOUNDA	GRAZING_BOUNDARY−Boundary defined as a pasture or other

RY	administrative grazing boundary (regardless of whether it is fenced or follows a subdivision or other legal boundary) that is not fenced and does not follow a subdivision or some other legal boundary
HU	HU−Hydrologic unit divide
JETTY	JETTY−Jetty
JURISDICTION	JURISDICTION−Surface jurisdiction boundary (e.g., boundary defined as BLM ownership regardless of subdivision)
LAVA	LAVA−Edge of lava flow
LEVEE	LEVEE−Dike or levee
MARSH	MARSH−Edge of Marsh, wetland, swamp, or bog boundary
MINERAL_DISTURBANCE	MINERAL_DISTURBANCE−Edge of quarry, mine, gravel stockpile or other mineral surface disturbance area
NLCS_BOUNDARY	NLCS_BOUNDARY−Wilderness, Wild and Scenic River, Historic District or other NLCS designation boundary
PARKING_AREA	PARKING AREA−Motorized vehicle parking area
POINT-TO-POINT	POINT-TO-POINT−Boundary defined by a straight line segment between two points
POWERLINE	POWERLINE−Power transmission line or buffer offset
RIDGE	RIDGE−Ridge
RIGHT-OF-WAY	RIGHT-OF-WAY−A legal right of way forms boundary
RIM	RIM−Line generally follows a natural topographic barrier
ROAD	ROAD−Routes managed for use by low or high-clearance (4WD) vehicles, but not ATVs
ROAD_OFFSET	ROAD_OFFSET−Boundary is offset from a road (not a consistent buffer)
SHORELINE	SHORELINE−Lake, pond, reservoir, bay or ocean shoreline or meander line
STREAM_L_BANK	STREAM_LBANK−Downstream left stream bank
STREAM_R_BANK	STREAM_RBANK−Downstream right stream bank
SUBDIVISION	SUBDIVISION−Public Land Survey System derived aliquot (1/2s, 1/4s) parts and lots define the legal description
TRAIL	TRAIL−Routes managed for human-powered, stock or off-highway vehicle forms of travel
UNKNOWN	UNKNOWN−Defining feature is unknown
VEGETATION	VEGETATION−Boundary is defined as a seeding boundary or other relatively permanent vegetation change
WATERCOURSE	WATERCOURSE−Stream, river, ditch, canal or drainage centerline

A.4 PLANID [Back]

Too numerous to list. Contact the State Data Administrator for a copy of the list.

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A.5 DSG_REASON [Back]

Choices relevant to ROW_DSG shaded. (In priority order with "stronger" reasons first.)

WILD	WILD−Wilderness
WSR	WSR−Wild and Scenic River
WSA	WSA−Wilderness Study Area
OPENPLAY	OPENPLAY−Specially designated OHV open play area
SCENICCORR	SCENICCORR−Designated Scenic Highway Corridor
OPENMMS	OPENMMS−Area declared open for mineral materials
ACEC	ACEC−Areas of Critical Environmental Concern
CULT	CULT−Cultural (archeological) site
ROW	ROW−Utility Corridor or site
CMPA	CMPA−Cooperative Management and Protection Area
RECSITE	RECSITE−Recreation Site
ADMNSITE	ADMIN−Administrative Site
FEDLIST	FEDLIST−Listed Species critical habitat
WITHDWL	WITHDWL−Mineral withdrawal
LEK	LEK−Sage grouse lek buffer area
SRMA	SRMA−Special Recreation Management Area
SOIL	SOIL−Fragile soils
HAZMAT	HAZMAT−Hazardous materials area
HIST	HIST−Historic district or designated site
HMA	HMA−Wildhorse or Burro Herd Management Area
BIGGAME	BIGGAME−Big game winter range
RIPARIAN	RIPARIAN−Wetland or Riparian Area
RAPTOR	RAPTOR−Raptor areas
SEEDING	SEEDING−Seeding
ROADW	ROADW−Wilderness or WSA cherry−stem road buffer
WJMAO	WJMAO−Wildlands Juniper Management Area Outside 1/2 Mile Steens Loop Road Buffer
WJMAI	WJMAI−Wildlands Juniper Management Area Inside 1/2 Mile Steens Loop Road Buffer
VRM	VRM−Visual Resource Management Class determines the designation
VRI	VRI−Original Visual Resource Inventory class determines the designation
BLMOPEN	BLMOPEN−Meets BLM policy for open use
UNK	UNK−Unknown reason

A.6 ROW_DSG [Back]

AVOID	AVOID−ROW/land use authorizations avoided
XCLUDE	XCLUDE−ROW/land use authorizations are not allowed
OPEN	OPEN−Area open for ROW/land use authorizations if compatible
CORR	CORR−Existing ROW corridor or site, area is open
UNK	UNK−ROW area designation is unknown

NA	NA−ROW area designation is not applicable

Rights-of-Way Designation Areas Data Standard
Comments and Resolutions
August 15, 2011

Section	Discussions	Final Resolutions
Dataset Description	• Clarify the sentence, "The Corridor designation includes existing Rights-of-Way (ROW) corridors, communication sites and other land use authorization sites plus additional land as appropriate for potential future development."	• Edit made: "The Corridor designation includes existing ROW corridors as well as communication sites and other land use authorization plus additional land as appropriate for potential future non-conflicting development."
Dataset Description	• Delete the words "and many not require National Environmental Policy Act."	• Deleted.
Dataset Description	• Avoidance areas typically require substantial mitigation before a new ROW can be approved therein.	• Current language is sufficient.
Dataset Description	• Distinguish large designation ROW corridors from smaller, individual ROW/Easements.	• The language is modified in the Dataset description.