

STRUCTURE NAMING RULES

FOR ALL STRUCTURES REQUIRING A STRUCTURE NUMBER IN THE BRIDGE DATA SYSTEM (BDS) – November 2016

BASIC RULES.....	2
BASIC RULES (Cont.).....	3
DEFINITIONS.....	3
COMMON ABBREVIATIONS	3
QUESTIONS/COMMENTS	3
EXAMPLES	4
STRUCTURE OVER WATER FEATURE -- Bay, Stream, Etc.	4
STRUCTURE OVER WATER FEATURE (Cont.) -- Bay, Stream, Etc.	5
STRUCTURE OVER or ALONG OTHER FEATURES -- Railroads, Highways, Roads/Streets, Flumes, Etc.	5
STRUCTURE OVER or ALONG OTHER FEATURES (Cont.) -- Railroads, Highways, Roads/Streets, Flumes, Etc.	6
STRUCTURE CARRIES or ALONG A HIGHWAY CONNECTION (RAMP) - Grade Separation Only	7
STRUCTURE OVER MULTIPLE FEATURES.....	7
TUNNELS AND VIADUCTS.....	7
RETAINING AND SOUND WALLS	8

For structure numbering rules, see the ODOT Bridge Section Structure Numbering Guideline.

<http://www.oregon.gov/ODOT/HWY/BRIDGE/docs/bddm/pdfs/brnumbering.pdf>

STRUCTURE NAMING RULES

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BASIC RULES

1. Name must be 50 characters or less (required by BrM(PONTIS)).
2. Use the ODOT highway number, not route number. The ODOT number is unique. Some highways can have multiple route numbers.
3. Do not use "Bridge", "O'xing", "U'xing" or forms thereof, except where the feature name includes the word, such as "Bridge Cr" or "Bridge St".
4. To determine the location milepoint (2 decimal places) or latitude/longitude (5 decimal places):
NOTE: Negative longitude is assumed.
 - a. Bridge - center along roadway centerline.
 - b. Culvert - On edge of pavement at a line perpendicular to the edge of pavement, aligned with the inlet end.
 - c. Traffic/ITS - one end if crosses roadway, otherwise center.
 - d. Retaining wall - left end when facing the open side.
5. Never use project stationing - it is not used after project completion.
6. Use common abbreviations, except for feature names or for clarity. [See abbreviation list.](#)
7. Do not use punctuation, except underscores and parenthesis, unless necessary for clarity. The underscore is used for separating types of data such as "Bear Cr_Hwy 30", not individual words such as "Bear_Cr_Hwy_30".
8. Use cardinal directions for city or county roadways, as appropriate (e.g. 12th St SE).
9. When the structure is a retaining wall or a structure that does not cross the roadway, use cardinal direction from roadway - NS (North Side), SS (South Side), ES (East Side), WS (West Side) (e.g. Hwy 1W_WS).
10. When the structure is on a divided highway or one-way street, include the direction of traffic (NB, SB, EB, WB) (e.g. Hwy 1NB or 3rd St_SB).
11. For highway connections (ramps) add the designation from the highway inventory (e.g. Conn 001GV). The designation is unique to each connection. (Users can get the letter codes from the [Straightline Charts](#). They are also available to internal users in [TransGIS](#), by turning on the Highway Connections layer in the Road Network tab.) Connections are always associated with the highway they come "from", unless they connect with a non-highway; then they are always with the highway.
12. Acceptable structure type codes:
 - No type - bridge, cattle pass, equipment pass, wildlife pass, culvert 20 feet and larger
 - cl - culvert (6 ft. up to 20 ft.)
 - its - intelligent transportation system structure
 - rtw - retaining wall (4 ft. or higher)
 - sg - signal structure
 - sn - sign structure
 - sw - sound wall
13. When a structure has a commemorative, historic or local name, add it at the end in parenthesis: (Ben Jones).
14. List the highest priority feature with a "+" to indicate other features. If it crosses a named water feature and a railroad list the water feature name and add "_RR".
Prioritize major features as follows:
 - 1 – Named water feature or railroad
 - 2 – Highway
 - 3 – County Road or Major City Street

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BASIC RULES (Cont.)

15. If the structure crosses the state line and is owned by the neighboring state, add the state's DOT acronym to the end in parenthesis: (WSDOT).

DEFINITIONS

(FOR THE PURPOSE OF STRUCTURE NAMING ONLY)

Culvert - A covered channel used to convey a watercourse (continuous or intermittent) below ground. Single or multiple barreled culverts that are 6 feet or larger.

Swale - Low depression which may contain water during heavy rainfall.

Channel - unnamed stream, canal or ditch - natural or man-made - may or may not contain water.

Facility - Roadway, railroad, multi-use path, etc. that is carried by a bridge, crosses over a culvert, nearest a wall or traffic structure.

Feature - Waterway, railroad, roadway, etc. being spanned by a bridge or culvert.

COMMON ABBREVIATIONS

(FOR THE PURPOSE OF STRUCTURE NAMING ONLY)

Ave or Av – Avenue

Cr – Creek

Dr – Drive

Frtg – Frontage

Hwy – Highway

Ln – Lane

MP – Milepoint

Ped – Pedestrian

R – River

Rd – Road

RR – Railroad

St – Street

Tr – Trail

Tunl – Tunnel

QUESTIONS/COMMENTS

For questions or comments, please use the email link below or call the ODOT Bridge Section at (503) 986-4200.

[Contact Email](#)

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EXAMPLES

STRUCTURE OVER WATER FEATURE

-- Bay, Stream, Etc.

NAMING FORMAT (Brackets [] indicate data to be entered)

Example(s) on state highway (shown red)

Example(s) on non-highway (shown blue)

Structure at named water feature or swale.

[feature name]_[facility]

Yaquina Bay_Hwy 9

North Powder R_Bidwell Rd (Bidwell Ln)

[See Basic Rule 10.](#)

Mill Creek_Hwy 1NB

[See Basic Rule 15.](#)

Columbia R_Hwy 70EB (Umatilla)(WSDOT)

[See Basic Rule 12.](#)

[structure type]_[feature name]_[facility]

cl_Holmes Cr_Hwy 6

cl_Oak Cr_NW Oak Creek Dr

Facility crosses named water feature multiple times.

[feature name]_[facility]_MP[XX.XX]

Little Elk Cr_Hwy 33_MP32.24

[feature name]_[facility]_[lat/long]

Little Cr_High Valley Rd_45.20665/117.79882

Structure at unnamed channel.

Channel_[facility]_MP[XX.XX]

Channel_Hwy 30_MP20.14

[feature name]_[facility]_[lat/long]

Channel_Smith Rd_44.93426/123.02854

Channel_Lake Ewauna Tr Ped_44.93426/123.02855

[See Basic Rule 12.](#)

[structure type]_Channel_[facility]_MP[XX.XX]

cl_Channel_Hwy 5_MP20.14

[feature name]_[facility]_[lat/long]

cl_Channel_Co Rd 17_44.93426/123.02854

Structure on state frontage road add lat/long.

[feature name]_[facility]_[lat/long]

Rocky Cr_Hwy 1 Frtg_44.77630/124.07284

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STRUCTURE OVER WATER FEATURE (Cont.) -- Bay, Stream, Etc.

[See Basic Rule 12.](#)

Structure has commemorative, historic or local name. [See Basic Rule 13.](#)

STRUCTURE OVER or ALONG OTHER FEATURES -- Railroads, Highways, Roads/Streets, Flumes, Etc.

Highway over feature or Facility over highway.

Non-highway over non-highway.

Facility or feature has alternate name.

Facility carries or over highway connection add the connection designation from the ODOT highway inventory. [See Basic Rule 11.](#)

NAMING FORMAT (Brackets [] indicate data to be entered)

Example(s) on state highway (shown red)

Example(s) on non-highway (shown blue)

[structure type]_[feature name]_[facility]_[lat/long]
cl_Rocky Cr_Hwy 1 Frtg_44.77630/124.07285

[feature name]_[facility]_([name])
Rocky Cr_Hwy 10_(Ben Jones)
Fifteen Mile Cr_Co Rd_(Seufert)

[facility] over [feature]

Hwy 2 over Hwy 1
Hwy 52 over 23rd St NE
Hwy 64 over RR
Hwy 69 over Multi-use
Empire Ave over Hwy 4
Flume over Hwy 20
RR over Hwy 64
Multi-use over Hwy 69

[facility] over [feature]_[lat/long]
Multi-use over 12th St SE_44.93426/123.02854

[facility]_([name]) over [feature]_([name])
Hwy 1E_(NE MLK Blvd) over RR_(Paulson Viaduct)

[highway connection](Conn [###XX]) over [feature]
Hwy 2(Conn 002AZ) over 103rd Ave

[facility] over [highway connection](Conn [###XX])
102nd Ave over Hwy 2(Conn 002AZ)
Hwy 1NB over Conn 001GV (Clarks Branch Rd)

STRUCTURE NAMING RULES

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STRUCTURE OVER or ALONG OTHER FEATURES (Cont.) -- Railroads, Highways, Roads/Streets, Flumes, Etc.

NAMING FORMAT (Brackets [] indicate data to be entered)

Example(s) on state highway (shown red)

Example(s) on non-highway (shown blue)

Structure for cattle, equipment or wildlife pass.

[structure type]_[facility]_MP[XX.XX]

Cattle Pass_Hwy 21_MP5.20

[structure type]_[facility]_[lat/long]

Cattle Pass_Smith Rd_44.93426/123.02854

Traffic structure crosses roadway. Sign structures add "sn_"; signal structures add "sg_"; ITS structures add "its_". Non-highway add lat/long.

[structure type]_[facility]_MP[XX.XX]

sn_Hwy 1W_MP5.20

sg_Hwy 1W_MP5.20

its_Hwy 1W_MP5.20

[structure type]_[facility]_[lat/long]

sn_30th St_43.99014/124.10120

sg_30th St_43.99014/124.10120

its_30th St_43.99014/124.10120

Traffic, sign or ITS structure does not cross roadway.

[structure type]_[facility]_[side]_MP[XX.XX]

sn_Hwy 1SB_SS_MP5.20

sg_Hwy 1SB_SS_MP5.20

its_Hwy 1SB_SS_MP5.20

[structure type]_[facility]_[side]_[lat/long]

sn_30th St_WS_43.99014/124.10122

sg_30th St_WS_43.99014/124.10122

its_30th St_WS_43.99014/124.10122

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STRUCTURE CARRIES or ALONG A HIGHWAY CONNECTION (RAMP) - Grade Separation Only

Facility is a highway connection/ramp add the connection designation from the ODOT highway inventory. [See Basic Rule 11.](#)

[highway](Conn [###XX]) to [facility]
Hwy 1W (Conn 091CO) to Hwy 30

[facility] to [highway] (Conn [###XX])
NE 102nd Ave to Hwy 2 (Conn 002BA)

Facility is a connection to or from a divided highway, add direction (NB, SB, EB, WB). [See Basic Rule 9.](#)

[highway][direction] (Conn [###XX]) to [highway]
Hwy 1NB (Conn 001WR) to Hwy 69

Traffic sign structures add "sn_"; signal structures add "sg_"; ITS structures add "its_".

[structure type]_[highway] (Conn [###XX])_MP[XX.XX]
sn_Hwy 1W (Conn 091CB)_MP5.20
sg_Hwy 1W (Conn 091CB)_MP5.20
its_Hwy 1W (Conn 091CB)_MP5.20

STRUCTURE OVER MULTIPLE FEATURES

List the highest priority feature with a "+" to indicate other features. If it crosses a named water feature and a railroad list the water feature name and add "_RR". [See Basic Rule 14.](#)

[facility]_[feature]+
Hwy 64_Willamette R_RR+
Hwy 9_Umpqua R+McIntosh SI

[facility] over [feature]+
Hwy 1 over NE Hassalo St+

TUNNELS AND VIADUCTS

Use accepted structure name. Non-highway add lat/long.

[name]_[facility]
Salt Creek Tunnel_Hwy 18
Cornell Tunn No 1_ NW Cornell Rd_45.53072/122.71674

Multiple structures with no names on the same highway add milepoint

Viaduct_[facility]_MP[XX.XX]
Half Viaduct_Hwy 9_MP123.50

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RETAINING AND SOUND WALLS

NAMING FORMAT (Brackets [] indicate data to be entered)

Example(s) on state highway (shown red)

Example(s) on non-highway (shown blue)

Retaining wall add "rtw_"; sound wall add "sw".

[structure type]_[nearest facility]_[side]_[lat/long]

rtw_Hwy 9_WS_45.58914/118.64170

sw_Hwy 9_WS_45.58914/118.64170

rtw_S Springbrook Rd_NS_45.30233/122.94701

sw_S Springbrook Rd_NS_45.30233/122.94701

Facility is a divided highway add direction of traffic to highway number.

[structure type]_[nearest facility]_[side]_[lat/long]

rtw_Hwy 6EB_NS_45.58914/118.64170

sw_Hwy 6EB_NS_45.58914/118.64170

Facility is a highway connection add connection designation from the ODOT highway inventory. [See Basic Rule 11.](#)

[structure type]_[highway] (Conn[###XX])_
[side]_[lat/long]

rtw_Hwy 1W (Conn 091CB)_SS_45.58914/118.64170

sw_Hwy 1W (Conn 091CB)_SS_45.58914/118.64170