## SITUATION AND LAYOUT CHECKLIST FOR HIGHWAY / WATERWAY CROSSINGS

PRO	JECT NAME:
PRO	JECT KEY NUMBER:
BRII	OGE DRAWING NUMBER: CHECKED BY:
	encil to mark items. Use an X or ✓ to indicate completion. Use "INC" to indicate items which are incomplete and "N/A" cate items which do not apply. For additional information on the design requirements refer to Chapter 17 of the "LRFD" al.
BO	RDER
<u>DO</u> .	Designed and Detailed Names
	Design Checked and DWG Checked Names (required when work has been checked)
	Corrections Name (need only be completed when corrections have been made)
	Engineers Stamp
	Project Number
	Sheet Title
	Project Description (Length, Type of Support, Crossing, Station)
	Bridge Key Number
	Bridge Drawing Number (required but may not be available during preliminary design)
	County and Project Key Number
	Sheet Numbering (required for final design and PS&E submittals)
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	CET 1
<u>PL</u>	N VIEW
	View Title with scale factor  Length of Structure (out to out) plane survey line
	Length of Structure (out to out) along survey line Station and Finished Grade Elevation at the Beginning and End of structure along Centerline.
	Abutment / Pier number, Station, and Finished Grade Elevation shown at the Intersection of the Abutment / Pier
	Centerline and Survey line at the following locations:
	Centerline of bearing of Abutments
	Center of Piers / Bents Span lengths along survey line shown as follows:
	Single Spans or End Spans: abutment centerline bearing - centerline pier/bent
	Interior Spans: centerline pier/bent - centerline pier/bent
	Bridge Width shown (out - out). Width should include the parapet, curb and sidewalk as applicable.
	Curb-to-Curb Width shown
	Roadway Lane and Shoulder Widths shown
	Lane Direction and Name of Closest Town/Geographical Feature in that Direction indicated
	North arrow shown
	Intersection Angle shown if not a 90° crossing
	horizontal and vertical clearances shown as follows:
	Highway Crossings: Show the point of minimum vert. and horiz. clearance for the highway
	Stream Crossings: Show the point of minimum clearance above Q50 high water elevation
	Identification of Survey and Profile lines
	Existing Bridge Details shown (as needed)
	Existing Bridge Drawing Number given (Needed only if existing bridge is to be removed)  Plan View Oriented as Elevation View can be placed below Plan View.
	Plan View Oriented so Elevation View can be placed below Plan View Bridge Stationing at Centerline of Structure shown and runs Left to Right of sheet
	Culvert Stationing at Centerline of Roadway shown and runs Bottom to Top of sheet
	Rip Rap Limits shown with pay note (as applicable)
	Contour lines shown and gray shaded
	Utilities Crossing the structure shown (as applicable)

Deck drains shown (as applicable)			
Survey Cap shown with installation note			
ELEVATION VIEW			
View Title with scale factor			
Total length between abutment centerlines along survey line shown			
Abutment/Pier Number and Station shown at the following locations:			
Centerline Bearing of Abutments			
Centerline of Piers/Bents			
Span Length Shown			
Span Number Shown (Multi-Span Structures only)			
Fixity Shown ("E" Expansion, "P" Pinned, or "F" Fixed) (not required on culverts)			
Minimum Vertical Clearances shown as follows:			
Highway Crossing: Minimum Clearance from roadway			
Stream Crossing: Minimum Clearance form Q <sub>50</sub> High Water Elevation			
Ground Line along the Centerline of Structure Shown			
Abutment Slopes shown and annotated			
Abutment / Pier Projection lines shown (Do not show where projection lines may be confusing)			
Roadway approach Guardrails shown with associated note			
Treatment approach community shows here			
PROFILE DATA			
View Title with scale factor			
Profile Grade Across Structure Shown (denote top of concrete or top of overlay)			
Structure Location Shown on Profile			
Station and Elevation for the Beginning and End of Structure Shown			
Profile Grades for all Highways involved in Crossing Shown			
The following Vertical Curve Data Shown:			
Stations and Elevations at Point of Curvature, Point of Intersection, and Point of Tangence	037		
Length of Vertical Curve	_y		
Incoming and Outgoing Grades as a percent			
HODITONELL ALIGNE CENTED AT A			
HORIZONTAL ALIGNMENT DATA			
* Horizontal Alignment Data should be included in the Plan view if possible.			
View Title			
Stations at Point of Curvature, Point of Intersection, and Point of Tangency Shown			
Horizontal Curve data Shown (Δ, T, L, R, S, RL, and Z)			
Horizontal Curve described in Degree of Curve			
Super Elevation Transition Data Shown (If applicable)			
Alignment Bearing (Should be shown in Plan View if possible)			
HYDRAULIC DATA			
View Title			
Hydraulic Data for Streams and Rivers shown for the following conditions:			
Design (Flood, discharge, H.W. Elev., and Velocity)			
Base (Flood, discharge, H.W. Elev., and Velocity)			
Scour (Flood, discharge, H.W. Elev., and Velocity)			
Hydraulic Data for Canals Shown (Canal Flow, H.W. Elev., Velocity, and Flow Controller)			

INDEX OF S	CHEETS
View Title	
	nber and Sheet Title Shown for all Sheets
QUANTITIE  View Title  Bid Item  Bid Item  Bid Item  View Title  Construct	e Number, Description, and Unit Shown for all applicable items Quantity Shown (Not Required until Final Design) Plan Quantity items denoted
-	AP  te State of Idaho showing location of the project map showing the location of the bridge site
Revisions:	
March 2011	Revised Checklist to agree with 17.2 Changed location of stationing for culverts from "centerline of structure" to "centerline of roadway". Added traffic data to sheet 2 to provide one directional data required for load rating.
May 2014	Revised notations for ADT & ADTT to AADT & CAADT.
Sept 2021	Deleted reference for engineers stamp on full & half size drawings.  Deleted reference to bridge inspection number on first sheet only.

Revised "project county and key number" to "county and Project key number"

Added "denote top of concrete or top of overlay" to Profile Data.

Added "denote plan quantity items" to Quantities.