



WESTERN FEDERAL LANDS
HIGHWAY DIVISION

PS&E CONTINUUM

March 2025

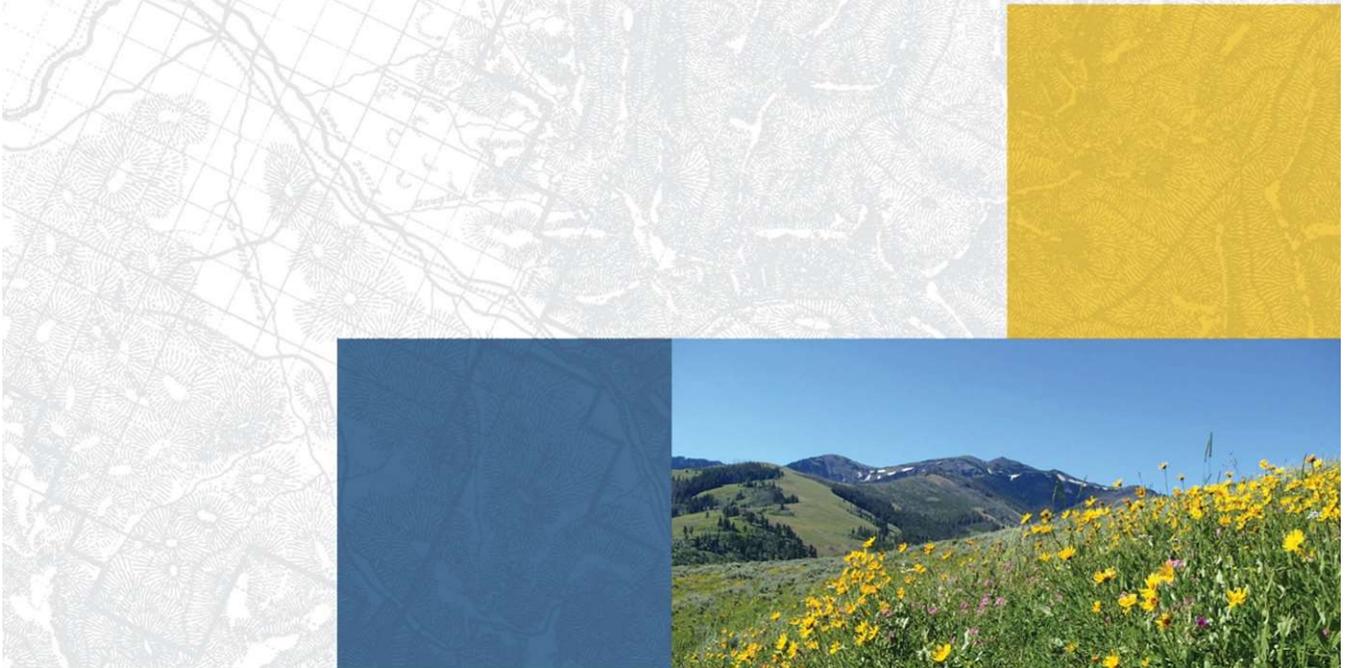


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RECORD OF REVISIONS

The following record of revisions to the PS&E Continuum is offered as a “quick reference” to determine the latest changes.

DATE	SECTION	REVISION DESCRIPTION
3/2025	Solicitation Deliverable – Plans	<ul style="list-style-type: none"> Updated to match Plan Set Order (https://highways.dot.gov/federal-lands/design/plan-prep/wfl/plan-set-order)
	Other Solicitation Deliverables	<ul style="list-style-type: none"> Added Physical Data to list per WFLHD Supplement 9.6.10-2
3/2023	Solicitation Deliverable – Plans	<ul style="list-style-type: none"> Added Earthwork Summary Table to list
5/2022	General	<ul style="list-style-type: none"> Added Revision section to document General formatting updates
	Other Solicitation Deliverables	<ul style="list-style-type: none"> Cross Sections – Moved into Other Contract Deliverables section Earthwork – Moved into Other Contract Deliverables section Notice To Bidders/Offers – Added deliverable information WFLHD Incentives Adjustment – Added deliverable information General – Placed in alphabetical order
	Non-Solicitation Deliverables	<ul style="list-style-type: none"> Critical Path Method (CPM) – Moved to Non-Contract Deliverables section Notice To Proceed (NTP) Calculator – Added deliverable information Unit Price Analysis (UPA) – Added deliverable information General – Placed in alphabetical order



PS&E CONTINUUM TABLES

The tables below show the progression of each of the major deliverables throughout the project development phase. Most projects will follow this progression, although individual items may be moved to an earlier phase if necessitated by project requirements. Also, if the project is developed with fewer milestones, i.e., one milestone is eliminated, the project schedule, via its activities and steps, needs to detail the development of deliverables at each milestone.

SOLICITATION DELIVERABLE – PLANS

Plan Sheet or Section	Design Phase			
	30%	70%	95%	100%
GENERAL INFORMATION				
Title Sheet	Include all information that is available.	Include/update all information.	Update information.	Show all information (see Sample Plans)
Sheet Index (may be placed on Title Sheet)	List the sections (A, B, C, etc.) included in the 30% package; do not list each sheet.	Update to include additional sections added at 70%; do not list each sheet.	Update to list all sheets, not just sections.	Show all information (see Sample Plans)
Plan Symbols and Abbreviations	WFLHD Detail Drawing W101-1 Note: Add special line types to the first page of the Plan section, not to the Detail Drawing.	No change from 30%.	No change from 30%.	No change from 30%
Vicinity Map(s)	Show as much information as available.	Update to include additional information.	Show all information (see Sample Plans).	No change from 95%.
SUMMARY OF QUANTITIES				
Summary of Quantities	Only show items that are listed in the Engineer’s Estimate. Enter quantities in the "Estimated Quantities, Bid Schedule" column, not in the columns for each Plan sheet sections. Do not list allowances at 30%.	Show quantities for all bid items. Enter quantities in the appropriate plan sheet section column. Include the allowance and show the total in the "Estimated Quantities, Bid Schedule" column.	Update information from 70%.	Update information from 95%.



Plan Sheet or Section	Design Phase			
	30%	70%	95%	100%
TYPICAL SECTION(S)				
Typical Section(s)	Include everything shown in the Sample Plans except station ranges for guardrail. At 30%, geotechnical recommendations are only conceptual, and some typical section features will be updated in the 70% phase.	Ideally, show everything, although some features may need to be updated at 95%.	Show all information (see Sample Plans).	If needed, update from 95%.
PLAN-PROFILE (or PLAN-PLAN)				
Survey Control	Not provided	Include all information (see Sample Plans).	No change from 70%.	No change from 95%.
Tabulation of Plan-Profile Quantities (or Plan-Plan)	Include a Tabulation of Quantities sheet only for section D of the Plans. Show all quantities related to earthwork, aggregates, and asphalt, including ‘for information only’ quantities. Also show tabulation table for other major quantities such as guardrail.	Include Tabulation of Quantities sheets for <u>all known quantities</u> , including ‘for information only quantities.’	Include Tabulation of Quantities sheets for <u>all quantities</u> , including ‘for information only quantities.’	Update from 95%.
Earthwork Summary Table	Include Earthwork Summary Table per Sample Plans for all earthwork quantities with provided available information from Materials Engineer and Geotechnical Engineer (e.g. Cut Volume, Fill Volume, Topsoil Volume, Shrink/Swell factor, material unit conversion).	Update from 30%.	Update from 70%.	Update from 95%.



Plan Sheet or Section	Design Phase			
	30%	70%	95%	100%
Plan-Profile Sheets (or Plan-Plan sheets)	Show preliminary annotated H & V alignment; existing ground line (profile only); slope catch points; and drainage structures > 48" diameter and preferably ≤48". Include callouts needed to convey design intent, such as size and length of major structures, guardrail length, etc.	Show final annotated H & V alignment. Include all information (see Sample Plans) for items of work (walls, culverts, guardrail, etc.) shown for 70% phase in the P6 project schedule;	Show information (see Sample Plans)	Update from 95%.
Line Graphs (as applicable to project)	Show beginning and ending Northing & Easting; show major and minor road locations.	Update from 30%. Show culvert and other major work item locations.	Update from 70%.	Update from 95%.
APPROACH ROAD(S)				
Tabulation of Approach Road(s) Quantities	Include a Tabulation of Quantities sheet. Show all quantities related to Approach Road(s) for clearing and grubbing, earthwork, aggregates, and asphalt, including 'for information only' quantities.	Include Tabulation of Quantities sheets for <u>all known quantities</u> , including 'for information only quantities.'	Include Tabulation of Quantities sheets for <u>all quantities</u> , including 'for information only quantities.'	Update from 95%.
Approach Road(s) Plan-Profile Sheets	Show preliminary annotated H & V alignment; existing ground line (profile only); slope catch points; and drainage structures > 48" diameter and preferably ≤48". Include callouts needed to convey design intent, such as size and length of major structures, guardrail length, etc.	Show final annotated H & V alignment. Include all information (see Sample Plans) for items of work (walls, culverts, guardrail, etc.) shown for 70% phase in the P6 project schedule;	Show information (see Sample Plans)	Update from 95%.



Plan Sheet or Section	Design Phase			
	30%	70%	95%	100%
PARKING AREAS				
Tabulation of Parking Area Quantities	Include a Tabulation of Quantities sheet. Show all quantities related to Parking Lots for clearing and grubbing, earthwork, aggregates, and asphalt, including ‘for information only’ quantities.	Include Tabulation of Quantities sheets for <u>all known quantities</u> , including ‘for information only quantities.’	Include Tabulation of Quantities sheets for <u>all quantities</u> , including ‘for information only quantities.’	Update from 95%.
Parking Lot Demolition Plan	Show area of impact.	Show elements to be removed.	Update from 70%.	Update from 95%.
Parking Lot Site Plan	Show proposed elements.	Update from 30%.	Update from 70%.	Update from 95%.
Parking Lot Section(s)	Include everything shown in the Sample Plans. At 30%, geotechnical recommendations are only conceptual, and some typical section features will be updated in the 70% phase.	Ideally, show everything, although some features may need to be updated at 95%.	Show all information (see Sample Plans).	Update from 95%.
Parking Lot Grading Plan	Not provided.	Show preliminary grading identifying impacts and drainage flow. Show points of inflection.	Show final grading identifying impacts and drainage flow, with all annotations and details.	Update from 95%.
Parking Lot Soil Erosion and Sediment Control Plan	Not provided.	Show location and type of devices at 70%. Include whatever information is needed for the permit applications, as the 70% Plans will be used for the permit application. Quantities for devices are not required.	Include all information (see Sample Plans).	Update from 95%.



Plan Sheet or Section	Design Phase			
	30%	70%	95%	100%
Parking Lot Temporary Traffic Control Plan	Not provided	For projects where standard drawings are sufficient (i.e., single lane closure), include only the standard drawings; For projects where site specific plans are required (i.e., temporary bypasses, construction phasing, etc.) include project specific drawings needed to communicate intent.	all information (see Sample Plans)	Update from 95%.
Parking Lot Permanent Traffic Control Plan	Not provided	Show all permanent traffic control devices. Striping plan is not required at 70%.	Show all information, including striping plan (see Sample Plans).	Update from 95%.
Parking Lot Detail Sheets (any details related to the Parking Lots)	Not provided.	Include draft details for major items of work.	Include final details for all items of work.	Update from 95%.
SOIL EROSION AND SEDIMENT CONTROL				
Tabulation of Soil Erosion and Sediment Control Quantities	Not provided	Not provided	Include all information (see Sample Plans).	Update from 95%.
Soil Erosion and Sediment Control Plan	Not provided	Show location and type of devices at 70%. Include whatever information is needed for the permit applications, as the 70% Plans will be used for the permit application. Quantities for devices are not required.	Include all information (see Sample Plans).	Update from 95%.



Plan Sheet or Section	Design Phase			
	30%	70%	95%	100%
Soil Erosion and Sediment Control - Standard Drawings and/or WFL Details	Not provided	Include Standard Drawings and/or WFL Details details for items of work shown in the 70% package.	Include Standard Drawings and/or WFL Details details all items of work.	Update from 95%.
Detail Sheets (project specific details)	Include draft details for major items of work.	Include draft details all items of work.	Include final details for all items of work.	Update from 95%.
MATERIAL SOURCES				
Material Source Grading Plan	Not provided	Show preliminary grading identifying impacts and drainage flow.	Show final grading identifying impacts and drainage flow, with all annotations and details.	Update from 95%.
DRAINAGE				
Tabulation of Drainage Quantities	Not provided	Only show station, size, length, and type of culvert (metal, plastic, etc.)	Add structure exc, end sections, etc.	Show all information (see Sample Plans)
Drainage Plans for Culverts	Not provided	Provide plans for major cross-drains culvert greater than 48-inches, and storm sewer drainage.	Update from 70%.	Update from 95%.
Detail Sheets (culvert standards, riprap ditch detail, riprap blanket detail, etc.)	Include draft details for major items of work.	Include draft details all items of work.	Include final details for all items of work.	Update from 95%.
WALL(S)				
Tabulation of Wall Quantities	Include a Tabulation of Quantities sheet of proposed wall(s) location and quantity.	Update from 30%. Include “For Information Only” quantities.	Update from 70%. Finalize “For Information Only” quantities.	Update from 95%.
Wall – Typical Section(s)	Show proposed Geotechnical recommendations.	Update from 30%.	Update from 70%.	Update from 95%.



Plan Sheet or Section	Design Phase			
	30%	70%	95%	100%
Wall – Plan-Profile Sheets	Show proposed locations of wall(s). Include roadway alignment and wall alignment, slope stake limit, construction limit, and existing contours.	Show final locations of proposed Wall(s).	Update from 70%.	Update from 95%.
Wall – Details	Not provided	Include details.	Update from 70%.	Update from 95%.
MISCELLANEOUS				
Fences, Gates, and Cattle Guards	Include Standard Drawing and/or WFL Details for items of work shown.	Update from 30%.	Update from 70%.	Update from 95%.
Safety Features – Standard Drawings and/or WFL Details	Include Standard Drawing and/or WFL Details for items of work shown.	Update from 30%.	Update from 70%.	Update from 95%.
Detail Sheets (kiosks, vault toilet, etc.)	Include draft details for major items of work.	Include draft details all items of work.	Include final details for all items of work.	Update from 95%.
TEMPORARY TRAFFIC CONTROL				
Tabulation of Temporary Traffic Control Quantities	Not provided	Flagging hours are required at 70% regardless of the temporary traffic control plans; no other quantities are required.	Show all information (see Sample Plans)	Update from 95%.
Temporary Traffic Control Plan	Not provided	For projects where standard drawings are sufficient (i.e., single lane closure), include only the standard drawings; For projects where site specific plans are required (i.e., temporary bypasses, construction phasing, etc.) include project specific drawings needed to communicate intent.	all information (see Sample Plans)	Update from 95%.



Plan Sheet or Section	Design Phase			
	30%	70%	95%	100%
Temporary Traffic Control – Standard Drawings and/or WFL Details	Not provided	Include Standard Drawing and/or WFL Details for items of work shown in the 70% package.	Include Standard Drawings and/or WFL Details for all items of work.	Same as 95%.
Detail Sheets (project specific details)	Include draft details for major items of work.	Include draft details all items of work.	Include final details for all items of work.	Update from 95%.
PERMANENT TRAFFIC CONTROL				
Permanent Traffic Control Quantities	Not provided	Quantities are not required at 70%.	Show all information (see Sample Plans).	Update from 95%.
Permanent Traffic Control Plan	Not provided	Show all permanent traffic control devices. Striping plan is not required at 70%.	Show all information, including striping plan (see Sample Plans).	Update from 95%.
Permanent Traffic Control – Standard Drawings and/or WFL Details	Not provided	Include Standard Drawing and/or WFL Details for items of work shown in the 70% package.	Include Standard Drawings and/or WFL Details for all items of work.	Same as 95%.
Detail Sheets (project specific details)	Include draft details for major items of work.	Include draft details all items of work.	Include final details for all items of work.	Update from 95%.
BRIDGE CONSTRUCTION DETAILS				
Bridge - Plan and Elevation	At 30%, only the TS&L (Type, Size, & Length) (Bridge type, size, and location) Sheet is provided. The TS&L shows the plan, elevation, and cross section of the bridge. Low chord is shown; foundation elevations are not provided. The TS&L sheet lists preliminary hydraulic information and it includes the LPSM cost based on SQFT of deck or approximate quantities.	Plan, elevation, and typical section of the bridge all information included. At this stage the bridge superstructure and substructure will be fully designed, but not fully checked.	All information is shown and has been checked.	Update from 95%. Note: For the 100% reviews, the "Preliminary, Not for Construction" stamp will remain on the plans. The stamp is removed for the very final set that is sent to Acquisitions. The reinforcing bar list sheets are also stripped of quantity data (as the Contractor is responsible for submitting this info).



Plan Sheet or Section	Design Phase			
	30%	70%	95%	100%
Bridge - General Notes and Estimate	Not provided	At 70%, everything is shown; however, quantities are preliminary (bar list not developed so steel quantity is only an estimate.) General notes include more information than other sections, since these sheets will be the only reference for next 75 to 100 years and are needed for load ratings, etc.	All information is shown and has been checked.	Update from 95%. An updated version of the Engineer's Estimate for the Bridge pay items, and Quantity calculations is provided at 100%.
Bridge Sheets (Foundation Plan, Abutment Cap, Abutment Endwall, Wingwalls, Abutment Bearings, Pier Caps, etc.)	Not provided	All bridge sheets will be included. At this stage the bridge superstructure and substructure will be fully designed, but not fully checked by the independent reviewer. Reinforcing bar lists will not be developed at this stage, blank sheets will normally be provided. Note: Sheets are arranged in the order of construction (from the ground up). "Preliminary Not for Construction" is placed on all sheets.	At this stage the bridge is fully designed, detailed, and checked. Reinforcing bar lists are provided at this stage (in the Plans) and will have all details shown. The 'Preliminary Not for Construction' stamp will remain on the 95% Plans. A draft load rating of the structure will be completed at this stage.	Update from 95%.



OTHER SOLICITATION DELIVERABLES

Deliverables that are required for a project and are included as part of the contract.

Deliverable	Design Phase			
	30%	70%	95%	100%
Cross Sections	Show only automated labeling; no hand labeling.	Show only automated labeling; no hand labeling.	Show all labeling - automated and hand labels.	Update from 95%.
Minor Culvert Cross Sections (culverts ≤48-inch)	Not provided.	Provide for all minor (≤48-inch) culverts. Auto-label roadway. Label inlet and outlet inverts, length of culvert along the slope of the culvert, slope of culvert, and backslope.	Update from 70%.	Update from 95%.
Earthwork Reports	Provide reports for all quantities shown in the Engineer's Estimate / Summary of Quantities and for which the quantity is calculated in ORD.	Rerun to reflect changes to design.	Rerun to reflect changes to design.	Rerun to reflect final changes to design and reflect final quantities.
Engineer's Estimate (EE)	Class B estimate: all major work items (individually priced); grouped smaller items (percent of total project); include 20% to 30 % contingency.	Class A estimate: virtually every bid item (individually priced); include 10% to 20 % contingency.	Update Class A estimate: include every bid item (individually priced) (no contingency).	Update from 95%.
Notice To Bidders/Offeres (NTB / NTO)	Not provided.	Not provided.	Include all relevant contract method language and delete what does not apply. Fill out each section as applicable.	Update from 95%.



Deliverable	Design Phase			
	30%	70%	95%	100%
Physical Data – Proposed horizontal alignment(s) and profile grade(s) in Portable Document Format (.pdf) and LandXML (.xml) formats	Not provided.	Not provided.	Not provided.	Generate per ORD Manual Chapter 23: Physical Data and Government Provided Information.
Physical Data – Superelevation report in Portable Document Format (.pdf) or Microsoft Excel (.xlsx) format	Not provided.	Not provided.	Not provided.	Generate per ORD Manual Chapter 23: Physical Data and Government Provided Information.
Physical Data – Proposed finished surface in LandXML (.xml) format	Not provided.	Not provided.	Not provided.	Generate per ORD Manual Chapter 23: Physical Data and Government Provided Information.
Physical Data – Proposed finished subgrade surface in LandXML (.xml) format	Not provided.	Not provided.	Not provided.	Generate per ORD Manual Chapter 23: Physical Data and Government Provided Information.
Physical Data – Proposed 3D breaklines in Drawing Exchange Format (.dxf)	Not provided.	Not provided.	Not provided.	Generate per ORD Manual Chapter 23: Physical Data and Government Provided Information.
Physical Data – Existing ground surface in LandXML (.xml) format	Not provided.	Not provided.	Not provided.	Generate per ORD Manual Chapter 23: Physical Data and Government Provided Information.



Deliverable	Design Phase			
	30%	70%	95%	100%
Special Contract Requirements (SCR)	Not provided.	Include all relevant LOS with non-applicable language deleted. Add preliminary project specific language from design and technical functions.	Final project specific language added from design and technical functions.	Update from 95%.
WFLHD Incentives Adjustment	Provide incentives for applicable pay items.	Update from previous milestone.	Update from previous milestone.	Update from previous milestone.



NON-SOLICITATION DELIVERABLES

Deliverables that are required for a project as support documentation, but not included as part of the contract.

Deliverable	Design Phase			
	30%	70%	95%	100%
Critical Path Method (CPM) for Construction Time	Not provided.	MS Project schedule that includes all items on or influencing the critical path. Include all known restrictions (i.e. work windows, closures, etc.).	Update schedule to be consistent with final quantities. Include all restrictions.	Finalize schedule.
Design Narrative	Identify initial assumptions made for the geometry of the project. Identify any decisions made between WFL and Partner Agencies that have created a deviation from standard design. Obtain information from CFT members for respective areas of design narrative.	Update narrative to reflect current state of the project.	Update narrative to reflect current state of the project.	Update from 95%.
Design QC Checklist with Designer QC completed	QC Checklist for 30%.	QC Checklist for 70%.	QC Checklist for 95%.	QC Checklist for 100%.
Highway Design Standards Form	Complete form except for Exception/Variance column and explanations.	Complete entire form except for signatures.	HDS form with all signatures.	No change from 95%.
Notice To Proceed (NTP) Calculator	Not provided.	Provide project dates requested.	Update from previous milestone.	Update from previous milestone.
Quantity Calculations	Provide quantity calculations for all quantities shown in the Engineer's Estimate / Summary of Quantities.	Provide quantity calculations for all quantities shown in the Engineer's Estimate / Summary of Quantities.	Provide quantity calculations for all quantities shown in the Engineer's Estimate / Summary of Quantities.	Update from 95%.
Unit Price Analysis (UPA)	Provide for all pay items listed in the Engineer's Estimate.	Update from previous milestone.	Update from previous milestone.	Update from previous milestone.

