Retaining/Noise Wall Plan Sheets QC Checklist

Initial (30%)	PBLR	Detailed (60%)	Final (90/95%)	Sealed (100%)	RTL	N/A	QC Item	Comments
Retaining/Noise Wall Plan Sheets								
☐	☐	☐	☐	☐	☐	☐	Title Block information is complete	
☐	☐	☐	☐	☐	☐	☐	Sheet numbering is correct and matches Index of Sheets	
☐	☐	☐	☐			☐	Engineer's Preliminary Stamp on all applicable pdfs	
				☐	☐	☐	Engineer's Seal, Signature and Date on all applicable pdfs	
Retaining/Noise Wall Layouts:								
							Plan View:	Layout should be positioned so that the front of the wall is always shown in the profile
		☐	☐	☐	☐	☐	Beginning and ending wall points by station, offset, and roadway alignment	
		☐	☐	☐	☐	☐	Additional points as necessary to describe the relationship of wall alignment to roadway alignment(s)	
		☐	☐	☐	☐	☐	Indication of which side is the face of the wall	
		☐	☐	☐	☐	☐	Wall Horizontal Alignments (alignment data may be shown on separate wall alignment data sheets)	
		☐	☐	☐	☐	☐	Location of soil borings (Include boring name, station, offset, and top-of-hole elevation.)	
		☐	☐	☐	☐	☐	Signing, lighting, etc., mounted on or passing through wall	
		☐	☐	☐	☐	☐	Surface and subsurface drainage structures or utilities that could affect or be affected by wall construction	
		☐	☐	☐	☐	☐	Limits of Temporary Special Shoring (necessary for wall construction)	
		☐	☐	☐	☐	☐	North arrow	
		☐	☐	☐	☐	☐	Scale	
		☐	☐	☐	☐	☐	Other:	
		☐	☐	☐	☐	☐	Other:	
							Profile View:	Layout should be positioned so that the front of the wall is always shown in the profile
		☐	☐	☐	☐	☐	Existing ground line along wall alignment	
		☐	☐	☐	☐	☐	Proposed finished grade line at face of wall	
		☐	☐	☐	☐	☐	Bottom of wall for payment	
		☐	☐	☐	☐	☐	Top of retaining wall grade line (Does not include the top of rail.)	
		☐	☐	☐	☐	☐	Soil boring information where possible, shown at the correct elevation and scale	
		☐	☐	☐	☐	☐	Designation for “Back Face of Wall” when back of wall is shown	
		☐	☐	☐	☐	☐	Panel numbers when applicable	
		☐	☐	☐	☐	☐	Drainage, signing, lighting, utilities, etc.	
		☐	☐	☐	☐	☐	Scale	
		☐	☐	☐	☐	☐	Other:	
		☐	☐	☐	☐	☐	Other:	
							Typical Section:	
		☐	☐	☐	☐	☐	Typicalsection showing the relationship of the wall to the roadway	
		☐	☐	☐	☐	☐	Control point for horizontal and vertical alignment, typically shown at the top outermost corner of the wall	
		☐	☐	☐	☐	☐	Indication of maximum slope on top of and in front of wall	
		☐	☐	☐	☐	☐	Location of proposed finished grade	

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		☐	☐	☐	☐	☐	Railing type, flume, mow strip, etc., if applicable	
		☐	☐	☐	☐	☐	Distance from back of wall panel to face of abutment cap, if applicable	
		☐	☐	☐	☐	☐	Other:	
		☐	☐	☐	☐	☐	Other:	
							General Note:	
		☐	☐	☐	☐	☐	Reference to all applicable standard sheets for pertinent information	
		☐	☐	☐	☐	☐	Other pertinent information regarding wall design and construction	
							In addition to the above, check for the following based on wall type:	
							Spread Footing Walls only:	
		☐	☐	☐	☐	☐	Panel design designation for each panel.	
		☐	☐	☐	☐	☐	Location of expansion and construction joints	
		☐	☐	☐	☐	☐	Set bottom of wall (top of footing) horizontal and stepped to meet minimum embedment criteria. Provide bottom of wall elevations for all panels.	
		☐	☐	☐	☐	☐	Appropriate standard sheets pertaining to cast-in-place spread footing walls designated	
		☐	☐	☐	☐	☐	Other:	
		☐	☐	☐	☐	☐	Other:	
							Mechanically Stabilized Earth (MSE) walls only:	
		☐	☐	☐	☐	☐	Bottom of wall shown following the proposed finished grade offset at the minimum embedment depth specified	
		☐	☐	☐	☐	☐	Most recent Mechanically Stabilized Earth Panel Type Systems list is included in general notes.	Mechanically stabilized earth (txdot.gov)
		☐	☐	☐	☐	☐	Appropriate standard sheets pertaining to MSE walls	
		☐	☐	☐	☐	☐	Other:	
		☐	☐	☐	☐	☐	Other:	
							Concrete Block Walls only:	
		☐	☐	☐	☐	☐	Bottom of wall shown following the proposed finished grade offset at the minimum embedment depth specified	
		☐	☐	☐	☐	☐	Most recent Concrete Block Retaining Wall Systems list included in general notes.	Concrete block retaining wall systems (txdot.gov)
		☐	☐	☐	☐	☐	Appropriate standard sheets pertaining to concrete block walls	
							Tied-Back Walls only:	
		☐	☐	☐	☐	☐	Panel and closure-pour width dimensions	
		☐	☐	☐	☐	☐	Bottom of wall shown with a level footing elevation (i.e., steps) (Distance from one step to the next is typically greater than 6 in.)	
		☐	☐	☐	☐	☐	Appropriate standard sheets pertaining to MSE walls	
		☐	☐	☐	☐	☐	Other:	
		☐	☐	☐	☐	☐	Other:	
							Soil/Rock Nailed Walls only:	
		☐	☐	☐	☐	☐	Location of expansion and construction joints spaced at intervals not to exceed 90 ft	

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		☐	☐	☐	☐	☐	Set bottom of wall horizontal and stepped to meet minimum embedment criteria. Distance from one step to the next is typically greater than 6 in. Provide bottom of wall elevations for all panels.	
		☐	☐	☐	☐	☐	Estimated quantity for “Soil/Rock Nail Anchors”	
		☐	☐	☐	☐	☐	Typical section showing existing or proposed foundations or other obstructions that may interfere with wall construction	
		☐	☐	☐	☐	☐	Test nail lengths, loads, and bar grade and size	
		☐	☐	☐	☐	☐	Other:	
		☐	☐	☐	☐	☐	Other:	
							Drilled Shaft Walls only:	
		☐	☐	☐	☐	☐	Bottom of wall horizontal and stepped to meets minimum embedment criteria	
		☐	☐	☐	☐	☐	Panel width dimensions are shown	
		☐	☐	☐	☐	☐	Bottom of wall shown with a level footing elevation (i.e., steps). Distance from one step to the next is typically greater than 6 in. Provide bottom of wall elevations for all panels.	
		☐	☐	☐	☐	☐	Estimated quantity for “Drilled Shaft” used on wall (This quantity is broken into specified shaft diameters.)	
		☐	☐	☐	☐	☐	Other:	
		☐	☐	☐	☐	☐	Other:	
							Temporary MSE Walls only:	
		☐	☐	☐	☐	☐	Bottom of wall shown following the proposed finished grade offset at the minimum embedment depth specified	
		☐	☐	☐	☐	☐	Appropriate standard sheets pertaining to temporary MSE walls	
		☐	☐	☐	☐	☐	Other:	
		☐	☐	☐	☐	☐	Other:	