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60% RIGHT-OF-WAY AND UTILITY PLAN & DESIGN CHECKLIST					
Checklist Identifier	Designer Selection	Designer Comments	General	Reviewer Selection	Reviewer Comments
060.001.001			Are the title blocks filled out on each sheet with correct JP information? Are stamps in the upper right hand corner correspond to the correct plan submittal ( <i>Right-of-Way Utility Meeting</i> or <i>Proposed R/W</i> )?		
060.001.002			Have all comments from previous meetings been addressed? Use R/W Utility meeting Plan In Hand Memo from 30% meeting.		
060.001.003			Has the project been phased completely ( <i>shoo-fly/detours shown, top of cut and toe of slope shown, R/W to accommodate all permanent &amp; temporary construction, etc.</i> )		
060.001.004			Using estimates located in ProjectWise, is the variance between the 30% Construction Estimate and the 60% Construction Estimate less than 10%? If not, please explain in Comments.		
060.001.005			Was a 404 Permit Application included with the 60% Right-of-Way and Utility Plan & Design submittal?		
060.001.006			Using the Environmental Study Footprint, has the design remained within this pre-determined boundary?		
060.001.007			Using the 30% Plan Review Meeting Minutes, have changes been made to design areas outside of the Environmental Study Footprint? Design areas outside of the Environmental Study Footprint may impact the project schedule.		

Checklist Identifier	Designer Selection	Designer Comments	Design	Reviewer Selection	Reviewer Comments
060.002.001			Has Preliminary Pavement Design been approved and placed in Projectwise? (see Notes for Projectwise Folders locations)		
060.002.002			Has a Preliminary Geotechnical Report been reviewed and have significant findings been incorporated into design? (see Notes for Projectwise Folders locations)		
060.002.003			Has Preliminary Foundation Design been reviewed? (see Notes for Projectwise Folders locations)		
060.002.004			Are design exceptions required and has the documentation been provided? (see Notes for Projectwise Folders locations)		
060.002.005			Has the construction sequence been carefully studied to ensure traffic can be maintained safely and efficiently and the project can be constructed as designed?		

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Checklist Identifier	Designer Selection	Designer Comments	Title Sheet	Reviewer Selection	Reviewer Comments
060.003.001			Were any updates made to Title Sheet from the 30% review? If so, go back and evaluate 30% Preliminary review checklist.		
060.003.002			Are the bridges on the project map?		
060.003.003			Are the beginning and ending stations labeled on the map with an arrow?		
060.003.004			Are the beginning and ending incidental stations labeled on the map with an arrow?		
060.003.005			Does Total Project Length equal Roadway Length plus Bridge Length?		
060.003.006			If equations or exceptions are shown, do they match Survey Alignment(s)?		
060.003.007			Are bridge names, length, locations and NBI numbers shown?		
060.003.008			Do bridge stations agree with the bridge sheets?		
060.003.009			Is design traffic data shown for each roadway? (i.e.. DHV, 1 or 2 way, flex esal calc. etc....)		
060.003.010			Is index of sheets shown and are standards required for Right of Way and Utility Plan Submission included and correct?		

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Checklist Identifier	Designer Selection	Designer Comments	Typical Sections	Reviewer Selection	Reviewer Comments
060.004.001			Are all stations in the project covered by a typical section or exception? (Make sure there are no gaps or overlaps)		
060.004.002			Does typical section match preliminary pavement design based on preliminary geotechnical report?		
060.004.003			Are dimensioned widths correct?		
060.004.004			Are typical sections consistent with the design criteria?		
060.004.005			Are slopes labeled rise:run?		
060.004.006			Are all numbered notes tied to a typical section?		
060.004.007			Is the CL Survey, CRL, or PGL shown and is stationing consistent with the Title Sheet and Plan and Profile and Cross Sections?		
060.004.008			For curb and gutter sections, is pavement edge drain included? If not, can subbase be drained?		
060.004.009			Does ditch depth meet the design criteria and is it dimensioned correctly?		
060.004.010			For typical sections with depth variations, are pavement tapers needed? 1" elevation change per 100' length is preferred.		
060.004.011			For typical sections with variable widths, are taper tables included?		
060.004.012			Is the rounding detail included where necessary?		
060.004.013			Are typical sections provided for temporary and permanent driveways?		

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Checklist Identifier	Designer Selection	Designer Comments	Bridge - General Plan	Reviewer Selection	Reviewer Comments
060.005.001			Reevaluate 30% review checklist for changes from 30% review.		
060.005.002			For construction surveying, are all working points, including front face and/or back face of back wall and piers identified? This includes station and X and Y coordinates for each point.		
060.005.003			Are all skews shown with measurements?		
060.005.004			Locate and identify all staking elements of the superstructure. Ensure all dimensions are present so that elements can be staked in the field.		
060.005.005			Are the final rip rap extents shown?		
060.005.006			Are drains at end of bridge included (where applicable).		
060.005.007			Are boring/sounding locations shown?		

Checklist Identifier	Designer Selection	Designer Comments	Bridge - Elevation	Reviewer Selection	Reviewer Comments
060.006.001			Were any updates made to Elevation Sheets from the 30% review? If so, go back and evaluate 30% review checklist.		
060.006.002			Are elevations shown for Bridge Seats and Pier Caps?		
060.006.003			Are elevations shown for Drilled Shafts and Columns?		
060.006.004			Are boring/sounding locations shown with reference to Foundation Report?		
060.006.005			Using the Hydraulics Report, are pier scour lines shown?		

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Checklist Identifier	Designer Selection	Designer Comments	Bridge - Miscellaneous	Reviewer Selection	Reviewer Comments
060.007.001			Were any updates made to Miscellaneous items from General Plan and Elevation sheets from the 30% review? If so, go back and evaluate 30% review checklist.		
060.007.002			If there is a Railroad bridge in the plans, are Railroad details shown?		

Checklist Identifier	Designer Selection	Designer Comments	Bridge - Data and Index	Reviewer Selection	Reviewer Comments
060.008.001			Is Design Data (Load Resistance Factor Design) included?		
060.008.002			Is Foundation Data included?		
060.008.003			Is Hydraulic Summary included?		

Checklist Identifier	Designer Selection	Designer Comments	Roadway - Geometric Layouts	Reviewer Selection	Reviewer Comments
060.011.001			If construction control is anything other than C/L Survey, are Geometric Layout Sheets included? If so, perform the following checks.		
060.011.002			Is bar scale shown and correct?		
060.011.003			Is north arrow shown and in the correct direction?		
060.011.004			Are all proposed alignments shown and labeled?		
060.011.005			Do the points shown on the Geometric Layout Map have corresponding data in the Point Coordinate Tables?		
060.011.006			Do the points listed in the Point Coordinate Tables have point numbers, station and location, X and Y coordinates, bearing and curve data?		
060.011.007			Are Points of Tangents (PT), Points On Tangents (POT), Points of Intersections (PI), Points of Curves (PC), Points On Curves (POC), Point of Reverse Curves (PRC), and Stationing shown?		
060.011.008			Is there sufficient tangent distance between reverse curves for superelevation runoff and tangent runout?		
060.011.009			Are station equations shown and labeled?		
060.011.010			Does Geometric Data match the geometry shown on Plan and Profile Sheets?		
060.011.011			Does Geometric Design Data meet criteria shown in Roadway Design Guide and AASHTO Green Book? For 3R design, use 15 mph less than design values in guides.		

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Checklist Identifier	Designer Selection	Designer Comments	Roadway - Plan and Profile	Reviewer Selection	Reviewer Comments
060.012.001			Were any updates made to the Plan and Profile Sheets from the 30% review? If so, go back and evaluate 30% review checklist.		
060.012.002			Are proposed toes clearly shown?		
060.012.003			Do proposed toes in the Plan match the proposed toes in the Cross Sections?		
060.012.004			Using the Utility Offset Sheets, is there enough room between proposed toes and proposed Right-of-Way line to fit all moved utilities?		
060.012.005			Is matchline stationing shown and does it match corresponding sheets?		
060.012.006			Do the flowlines in the profile match the cross sections?		
060.012.007			Are temporary drainage structures labeled?		
060.012.008			Are structures and structure notes consistent between the plan and profile and cross sections?		
060.012.009			Is the proposed or existing right-of-way shown and annotated?		
060.012.010			Is the proposed right-of-way fence shown and annotated?		
060.012.011			Are the proposed right-of-way fence corner posts shown?		
060.012.012			Are the proposed drainage structures shown? Are proposed structure elevations, lengths, and grades shown?		
060.012.013			Is horizontal and vertical alignment shown for detour/shoo-fly? Is detour/shoo-fly information consistent with the sequence of construction?		
060.012.014			Is temporary construction shown and do business drives have temporary access?		
060.012.015			Are proposed driveways shown? Are locations, types, widths, and radii correct?		
060.012.016			Are removal types clearly labeled? (i.e., Asphalt, Concrete, Concrete with Asphalt Overlay, Concrete Driveway, Sidewalk, Curb, Pavement Sawing, etc....)		
060.012.017			Do all curves and intersections meet the sight distance criteria for speed and number of lanes?		
060.012.018			If Railroad is present, is it shown on Plan and Profile sheets? Is the construction of structures or earthwork proposed within the Railroad Right-of-Way?		
060.012.019			Do proposed toes encroach on Railroad Right-of-Way?		

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Checklist Identifier	Designer Selection	Designer Comments	Roadway - Sequence of Construction	Reviewer Selection	Reviewer Comments
060.013.001			Is the sequence of construction description shown, clear, and are all facets covered (roadway, bridge, retaining wall, etc.)? The reviewer should "drive" each sequence of construction to ensure that the project can be constructed.		
060.013.002			If sequence of construction is built in different phases, are all phases included in the description and clarified with detail sheets?		
060.013.003			Are Drainage structures labeled and included in the phases of sequence of construction? (The structures that affect the sequence of construction.)		
060.013.004			If shoofly is required for this project, is construction of the shoofly included in the sequence of construction?		
060.013.005			Using the NEPA document (Environmental Documents), if road closure is required for this project, is detour and its location and length included in the sequence of construction?		

Checklist Identifier	Designer Selection	Designer Comments	Railroad	Reviewer Selection	Reviewer Comments
060.014.001			If a Railroad is shown in the plans, do proposed toes encroach on Railroad Right-of-Way?		
060.014.002			If a Railroad crossing is shown in the plans, is Railroad Right-of-Way dimensioned and shown on Plan and Profile sheets?		
060.014.003			If there are at-grade Railroad crossings, are Railroad Detail Sheets included?		
060.014.004			Is the following information shown on the lower right hand corner above the sheet title: Railroad Name, DOT, Milepost, Subdivision, Highway, and GPS?		
060.014.005			For major bridge rehabilitation or replacement projects, does the design accommodate for future expansion?		

Checklist Identifier	Designer Selection	Designer Comments	Survey	Reviewer Selection	Reviewer Comments
060.015.001			Are the Survey Sheets included and numbered correctly?		

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Checklist Identifier	Designer Selection	Designer Comments	Cross Sections	Reviewer Selection	Reviewer Comments
060.016.001			If CRL or PGL are shown on Typical Sections sheets, are they consistent with the Cross Sections?		
060.016.002			Do beginning and end stations match Plan and Profile?		
060.016.003			Are incidental construction extents accounted for with cross sections?		
060.016.004			Are cross sections cut at the appropriate interval for the project? (Every 100' for rural sections and every 50' for urban sections)		
060.016.005			Are equations or exceptions labeled?		
060.016.006			Are templates consistent with typical?		
060.016.007			Are templates graphically complete?		
060.016.008			Do templates tie to ground?		
060.016.009			Is superelevation shown?		
060.016.010			Are Utilities drawn correctly and annotated and do the stations match the Plan and Profile?		
060.016.011			Are Side Drains, Cross Drains, and Medians Drains drawn correctly and annotated and do the stations match the Plan and Profile?		
060.016.012			Are driveways and street returns drawn correctly and annotated and do the stations match the Plan and Profile?		
060.016.013			Are finish grade elevations annotated and consistent with Plan and Profile?		
060.016.014			Are special ditch elevations annotated and consistent with Plan and Profile?		
060.016.015			Are cut and fill areas and volumes present?		
060.016.016			Are drainage structure flowlines (existing and proposed) annotated?		
060.016.017			Are slopes labeled rise:run?		
060.016.018			Are retaining walls or sound walls shown?		

Checklist Identifier	Designer Selection	Designer Comments	Traffic Signals and Lighting	Reviewer Selection	Reviewer Comments
060.017.01			If signals and/or lighting are included with the project, has a maintenance agreement between the maintaining agency and ODOT been initiated with ODOT Traffic Division?		