Delaware County Engineer's Office (DCEO) Preliminary Engineering Plan Review Checklist

Project Name:		
Plan Requirements		
□Yes □ No □ N/A	Proper number of plan sets (4 sets of full size and 1 set of half-size plans), traffic study (if applicable), storm water management report provided?	
□Yes □ No □ N/A	A CD or DVD containing PDFs of the plans, storm reports, etc shall also be provided with the plans for all submittals	
□Yes □ No □ N/A	Copy of approved zoning plan and text (Electronic format – PDF)	
□Yes □ No □ N/A	Completed preliminary plan review checklist provided?	
□Yes □ No □ N/A	Proper fees, including fee submission checklist been submitted? See http://www.co.delaware.oh.us/engineer/Review/Plan Review fee schedule cover page.pdf for copy of fee submission checklist.	
□Yes □ No □ N/A	Storm water Management Report with all the various predevelopment calculations and predevelopment tributary maps. The proposed post development tributary map shall also be provided. (See Article IV, Section 403 E, Article IX and the Supplemental Specifications).	
□Yes □ No □ N/A	Plans sent to other public agencies (DCEO to send plans to public agency, if applicable)	
	County shall contact the plans submitter if the above items have not been ith the plans. Failure to submit the items may result in delay or halting of the ess.	
	ion $302A$ – This information is shown on the Title Sheet. A sample Title om DCEO. Please contact this office for a copy.	
□Yes □ No □ N/A	Name of subdivision or development	
□Yes □ No □ N/A	Location by Range, Township, Quarter-Township, Farm Lot (U.S.M. Lands), and/or Virginia Military Survey Name and Number	
□Yes □ No □ N/A	A clearly legible location map showing the location of the project with respect to the nearest road intersection(s)	
\square Yes \square No \square N/A	North Arrow	
\square Yes \square No \square N/A	Written and graphical (bar) scale	
\square Yes \square No \square N/A	Name, address, and telephone number of Owner	
□Yes □ No □ N/A	Name, address, and telephone number of the Design Engineer preparing the plan	
□Yes □ No □ N/A	Regional Planning Number (Upper Right Hand Corner of Title Sheet)	
□Yes □ No □ N/A	Total development acreage	
□Yes □ No □ N/A	Number and location of lots (e.g., Index Map)	
□Yes □ No □ N/A	Project density	

<u>General Information</u>	<u>n</u> - Section 302 B
□Yes □ No □ N/A	The Preliminary Plan including its grading plan is to include the entire subdivision to confirm the entire development concept is feasible, that the stree layouts will work, and to identify any major issues upfront, such as drainage issues, before the Final Plans for the various phases are to be prepared.
□Yes □ No □ N/A	Does the grading and utility plan show simply enough proposed spot elevations or grading to confirm that the general layout including ponds will work?
□Yes □ No □ N/A	Has plans and plat for any adjoining subdivisions been reviewed to insure the proposed project is compatible?
□Yes □ No □ N/A	Plan showing proposed section/phase lines for the entire project.
□Yes □ No □ N/A	Copy of the preliminary plan, composite utilities & grading plan, and plat as submitted to Regional Planning Commission (RPC) provided?
□Yes □ No □ N/A	Include a signature line for our office to sign the Coversheet on larger developments that include multiple sections/phases.

request in accordance with these Standards

Identification of all intended variances to these Standards along with a written

Nonconforming Standards, items clearly identified – list below: *

<u>Traffic Study</u> - Section 302 C - Traffic Study submittal shall comply with current traffic impact standards (TIS). For a copy of the current TIS, see the Supplemental Specifications to these Standards. The Preliminary Engineering Plan will not be approved until the TIS is approved.

□Yes □ No □ N/A	Projected ADT's, widths, and classifications for all proposed streets
□Yes □ No □ N/A	Traffic volumes for turning movements at all major intersections and
	intersections with Existing State, County, or Township roads. AM and PM peak
	hour counts shall be provided. Recommendations and warrants for any traffic
	control devices, turn lanes, acceleration, and deceleration lanes.
□Yes □ No □ N/A	All traffic projections shall account for offsite traffic from stub streets into
	adjacent properties and cut through traffic from existing public roads.
□Yes □ No □ N/A	The current and future ADT's on existing public roads from which the
	proposed project takes access.
□Yes □ No □ N/A	An analysis of the impact on the existing roads and intersections affected
	by the proposed project.
□Yes □ No □ N/A	An internal traffic study is not required if the appropriate Delaware County
	typical section(s) is used throughout the proposed improvement.
□Yes □ No □ N/A	Any required approval by ODOT and/or other public agencies provided (copies
	of approval letters from other public agencies is acceptable)

□Yes □ No □ N/A

□Yes □ No □ N/A

^{*}Resolve or variance request required subject to preliminary plan approval by County Engineer for all intended variances.

Street and Structure Plan- Section 302 D

Proposed Typical Section	ons:		
□Yes □ No □ N/A	Pavement and grading sections with pavement thickness		
□Yes □ No □ N/A	Pavement width (See Art. VI, Table 601, 602, & 603)		
□Yes □ No □ N/A	R/W widths (See Art. VI, Table 601, 602, & 603)		
□Yes □ No □ N/A	Pavement cross slope (1/4" per foot), shoulder and ditch cross slopes (if appl.)		
□Yes □ No □ N/A	Typical section comply with current DCEO Standard Drawings (See		
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	Supplemental Specifications)		
□Yes □ No □ N/A	Pavement design calculations also submitted with plans (if not using County		
	Typical Section Pavement Design per Art. VII)		
□Yes □ No □ N/A	Del-Co water line located outside the R/W?		
□Yes □ No □ N/A	Fire hydrants located correctly and per DCEO Standard Drawing(s)?		
Pavement Composition:			
□Yes □ No □ N/A	County Typical Section Design used with ADT's shown		
□Yes □ No □ N/A	Pavement composition based on the AASHTO design methods (Section 705) or use of County Typical Section Pavement Design per Art. VII		
\square Yes \square No \square N/A	CBR Value (Section 705)		
□Yes □ No □ N/A	SN value (Use: SN _s for Standard Delaware County Design and SN _D for		
	designed pavement)		
Plan and Profile:			
□Yes □ No □ N/A	Centerline profile		
□Yes □ No □ N/A	<u>*</u>		
	Both existing R/W profiles (for open ditch streets only)		
□Yes □ No □ N/A	Post development safety considerations and traffic projections including:		
	traffic control devices, pedestrian traffic flow, etc.		
\square Yes \square No \square N/A	All existing utilities and easements with their locations		
\square Yes \square No \square N/A	If utility lines are on site, has the utility companies had an opportunity to review		
	the preliminary plans? A copy of the plans will need to be sent to the utility		
	companies for their review and comment.		
□Yes □ No □ N/A	Design speeds and street classifications (Typically 30 mph for local streets – See		
	Tables 601, 602 and 603)		
□Yes □ No □ N/A	Terrain Classification (See Art. VI)		
LICS LINO LIN/A	Terram Classification (See Art. VI)		
_	nd Vertical Alignment (with Stationing):		
\square Yes \square No \square N/A	Horizontal Curve data showing the centerline radius and delta angle for all		
	curves (See Art. VI, Section 601M for horizontal alignment requirements)		
□Yes □ No □ N/A	Stations shown at 100-foot intervals on centerline		
□Yes □ No □ N/A	Stations shown at all intersections		
□Yes □ No □ N/A	Stations shown at all P.C.'S, P.T.'S, and P.I.'S		
□Yes □ No □ N/A	Pavement and R/W widths shown		
$\Box Yes \Box No \Box N/A$			
	Street profiles with vertical curve data shown, with		
	approximate "K" values and design speeds. "K" values must comply with		
	ODOT L&D Manual, current edition.		
□Yes □ No □ N/A	Existing topography (specify source datum) at one-foot contour levels, including		
	sites with onsite sewage treatment. Use of County Auditor's website (DALIS) is		
	acceptable for existing topography. The USGS website:		
	http://water.usgs.gov/osw/streamstats/ohio.html		
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	that the Final Engineering Plan requirements for the Master Grading Plan require 1-foot contour intervals except in special circumstances.
□Yes □ No □ N/A	Sight distance exhibits in accordance with the requirements of Article VI (If not submitted with TIS) for all proposed access points, including emergency access points, onto existing State, County or Township Roads. The height of object shall be determined based on the current roadway profile and for a future roadway profile assuming a profile increase of 6-inches, to account for future overlay(s). See Article VI, Section 602 for further information. The preliminary engineering plan cannot be approved by DCEO without approval of the sight distance exhibits.
□Yes □ No □ N/A	Extent of grading/clearing limits consistent with current RPC requirements
□Yes □ No □ N/A	Locations of sanitary & storm sewers, water lines, and flood routing paths
□Yes □ No □ N/A	Adjoining parcels within 50 feet
□Yes □ No □ N/A □Yes □ No □ N/A	Existing roads within 200 feet of tract boundary Proposed street compactions shown (if to ever be extended)
$\Box Y es \Box No \Box N/A$ $\Box Y es \Box No \Box N/A$	Proposed street connections shown (if to ever be extended) A preliminary profile of all storm sewers and/or culvert crossings under the
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□Yes □ No □ N/A	proposed R/W is required to insure adequate cover per Article IX is provided. Do storm water basins, sidewalk, or other embankment locations create any safety issues for vehicles or pedestrians?
□Yes □ No □ N/A	Within R/W, sidewalk located 6' from face of curb as per DCEO Standard Drawings?
	Water Management Plan* – Section 302E and Supplement to Art. III
	ifications to these Standards (Existing Conditions)
*Refer to Article IX for the	he minimum Standards and Specifications for Design
□Yes □ No □ N/A □Yes □ No □ N/A □Yes □ No □ N/A	Proper scale used (1" = 500 feet maximum) Shows the Boundaries of the entire drainage area (onsite and offsite) Separate plans are required for the entire drainage area and the development area
Existing General Topog	raphy and Ground Contours shall be provided for the following:
□Yes □ No □ N/A	The Development Area
\Box Yes \Box No \Box N/A	The Development Area All adjacent land within one hundred (100) feet of the Development Area
	An adjacent tand within one numered (100) feet of the Development Area
In addition, the followin	g information shall be shown:
□Yes □ No □ N/A	Boundary lines of the development area
□Yes □ No □ N/A	Drainage structures (including those in the entire drainage area)
□Yes □ No □ N/A	Highways, railroads, parks, and other recreational areas
□Yes □ No □ N/A	Has all existing subsurface tile, including those on the County Drainage
	Maintenance Program, been accounted for in the design? Locations of the existing drainage maintenance tile systems within Delaware County are available from Delaware SWCD.
□Yes □ No □ N/A	The existing subsurface tile system shall not be connected into the storm water management system unless approved as part of the preliminary engineering plan approval.
□Yes □ No □ N/A	One-foot contour lines of the development area including sites with onsite sewage treatment. Use of County Auditor's website (DALIS) is acceptable
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	for existing topography. The USGS website
	http://water.usgs.gov/osw/streamstats/ohio.html may be used to aid in determining watershed characteristics for the site. Note that the Final
	Engineering Plan requirements for the Master Grading Plan require 1-foot
	contour intervals except in special circumstances
□Yes □ No □ N/A	Any existing above-ground structures or facilities on or in the development area
□Yes □ No □ N/A	Existing pond or ponding areas shown
□Yes □ No □ N/A	If an existing pond is to be used as a storm water control facility, the pond must
	be evaluated per current requirements (See Supplemental Specifications). This
	evaluation must be provided prior to submittal of the final engineering and
	construction plan.
□Yes □ No □ N/A	100-year flood plain for any FEMA NFIS watercourse shown
□Yes □ No □ N/A	Identification of the existing drainage outlet(s) for the site including size,
	material type, and condition of any storm sewer or culverts shall be shown. This
	information shall be based on an onsite investigation and observations of the
	outlet(s), (e.g., videotape, photographs, etc.) and submitted with the preliminary
	engineering plans. See Section 901 for additional requirements (e.g. minimum
	freeboard, minimum ditch/stream slope and velocity, etc.).
□Yes □ No □ N/A	An analysis of the capacity of the drainage outlet(s) for the site and a
	determination of the adequacy of the outlet(s) under the predevelopment
	conditions
□Yes □ No □ N/A	
	IMPORTANT. With Kurt of DESC Department, look at site on one of the
	screens in one of the conference rooms, looking at onsite and offsite drainage and
	whether there are any problems with an adequate outlet on site or offsite.
□Yes □ No □ N/A	Underground facilities (leach fields, wells, storage tanks, etc.)
□Yes □ No □ N/A	Are on-site sanitary sewer systems shown on the plans for the proposed lots and
	existing adjacent lots? Where is storm water routed related to these
	systems?
□Yes □ No □ N/A	Does the major flood routing for the proposed site affect any property
	downstream (e.g., existing subdivisions, homes, etc.)? If so, the design engineer
	shall prepare the final engineering plans per Art. IV, IX and the Supplemental
	Specifications (Additional requirements for major flood routing).
	ns – Section 302 E and the Supplement to Art. III, Table 901, provided in
the Supplemental Sp	ecilications
□Yes □ No □ N/A	Calculations of the predevelopment peak flows from the delineated drainage
	areas for the 1, 2, 5, 10, 25, 50, and 100-year frequency, 24 hour storms. List the
	peak flows on the map.
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Discussion of Project	t Issues – Section 302 F
□Yes □ No □ N/A	The plan must also include a discussion and identification of any problems
	which the design engineer and/or owner are aware of which could affect the
	feasibility of the project.
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For County Engineer	r Use only

April 16 2026

□Yes □ No □ N/A	Schedule meeting with design engineer, SWCD and Storm Water Department to
	review comments prior to sending formal review letter.
□Yes □ No □ N/A	Notify the Zoning Inspector when we receive the Preliminary Engineering Plan
	for review.
□Yes □ No □ N/A	Does the street layout on the preliminary plan match that shown on the
	RPC Sketch Plan?
□Yes □ No □ N/A	Were comments from the RPC Sketch Plan adequately resolved?
□Yes □ No □ N/A	Provide a set of plans to Liberty Township Fire Department (LTFD) for their
	review. Do not approve plan until LTFD has provided an approval letter.

	Comments:		
Comm	ent Disclaimer:		
The Co	unty Engineer Reserv	es The Right To Make Any Addi	tional Comments At Any Time Up To The
Actual	Approval Of This Pro	iect. See the Delaware County St	andards for other items not addressed on this
list.		,,,	
	□Approved	☐ Disapproved	
	Reviewed by:		Date:
	Write letter to:		