PRELIMINARY DESIGN CHECKLIST – PLAN SHEET FOR TEMPORARY DETOUR PIPES AT A STREAM CROSSING (CONNECT) Date: 1-1-2024

County: Check By:		Date:
Project Location:		Designer:
GENERAL		Existing structures: include general description
GEN	For requirements specific to temporary detour pipes,	Proposed length: include dimensions as-needed from culvert typical, e.g., lengths left and right, total length
 0 0 0	 reference [BDM 4.4.12] Abbreviations - Use as needed. Reference [BDM 13.1.4] Survey Control Point – Use coordinates/description per plan set Hydraulic Data table - include Drainage Area, Q5 cfs, HW, stream slope, outlet velocity, low roadway Edge of Traveled Way (sta., Elev). Location table Title Block Reinforced Concrete Pipe(s)-Temporary Detour Diameter x Length For more than one pipe the station is the culvert group centerline crossing of the roadway centerline. Skew angle – whole degree, same as shown in plan view 	 Proposed station on temporary detour centerline Skew angle of culvert to temporary detour roadway. A whole degree skew is preferred. Proposed detour roadway lane and shoulder widths Show proposed detour roadway embankment and ditch grading. Verify with Road Design. Label centerline culvert/detour/road construction Label stationing on at least two "tic" marks in the plan view for both the mainline and temporary detour alignments. Drainage: show direction of flow Check that all text and dimensioning is legible and not placed on top of other text or features
	Project (phase) number (include any leading zeros) and file number (Asset ID number is not required for temporary pipes)	Do not show revetment at pipe inlet/outlet unless justified. If revetment is proposed include a note with justification on the sheet.
	Scale bar	LONGITUDINAL SECTION
	North arrow	Detour Roadway section drawn along pipe centerline.
	NOTES: use as needed	True length is shown
	Use Class C bedding, connected joints (DR-121), wrap joints for sites within Loess hills areas	Existing ground line and proposed grade line shown and labeled
	Include reinforced concrete pipe aprons at inlet and outlet	Show existing and proposed structure(s)
	ends to reduce potential for uplift	Proposed flow-lines at inlet and outlet
bridg tempo that it arour	(This note is to be placed in the upper left corner of the <u>bridge replacement</u> first TS&L Situation Plan sheet) "The temporary run around shall be monitored for the duration that it is under traffic. When the construction of the run around is installed, the contractor shall notify the Preliminary Design Unit Leader at 515-233-7949 so a	Label detour roadway fore-slope used (e.g., 3:1)
		Profile grade elevation at intersection of culvert and detour road centerline
		Q₅ 'Design' HW
	Flood Management Plan can be developed in advance of the temporary run around being put into service. Upon	Show maximum fill height and location.
	notification, the DOT will add the site to the Bridge Watch Management Plan for monitoring."	CADD Checklist
	General Utility Symbols and Utilities Note Cell. Place a label on the plan view to identify areas that may be of potential conflict.	Refer to: Preliminary Bridge - Connect Applications
		Verify Iowa Regional Coordinate System is correct for the project site.
PLAN VIEW		CONNECT ProjectWise folder structure is being used.
FLA	Label "Plan View"	Correct seed files are being used.
	Culvert(s) oriented horizontally on the sheet	MicroStation File naming conventions are being followed.
	Ground elevations, contours, and topography. Label contour elevations	Correct MicroStation Model naming conventions are being followed.

____ The correct levels, element templates, or features are being used. (to ensure the correct font style is applied).

Existing utilities shown. Referenced line styles from

survey file are at an appropriate scale for readability.