PRELIMINARY DESIGN CHECKLIST – PIPE CULVERT (CONNECT)

Drainage: show direction of flow

placed on top of other text or features

Check that all text and dimensioning is legible and not

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Date:	8-1-2021

County:	Check By:	Date:	
Project Location	:	Consultant:	
GENERAL			
Survey Contr	 Abbreviations - Use as needed. Reference [BDM 13.1.4] Survey Control Point – Use coordinates/description per plan set 	Trenchless construction: use concrete pipe unless dictated by clearance or construction schedule. Use current specification directives	
 Hydraulic Data table - include Drainage Area, Q₅₀ cfs. Location table 	C	Do not show revetment at pipe inlet/outlet – to be provided by Road Design	
Title Block –	Diameter x Length including pipe type	LONGITUDINAL SECTION	
	- same as shown in plan view Project	 Roadway section drawn along pipe centerline Existing ground line and proposed grade line shown and 	
Scale bar		labeled	
North arrow		Show existing structure(s)	
Culvert stagin for between s	ng details: denote how drainage accounted stages	Proposed flow-lines at inlet, outlet, or other breaks as needed from culvert typicals	
NOTES: use	as needed	Label degree of elbows used (1201, 1501, etc.)	
	esign: if required due to use of flume, drop	Label roadway fore-slope used (e.g., 6:1, 3.5:1)	
inlet, scour floor, etc., use RCB plan development format/checklist. Design number is required.	list. Design number is required.	Profile grade elevation at intersection of culvert and road centerline	
	bedding for all roadway pipe applications	Q 'Design' water surface elevation (per data block)	
Use Class C bedding for temporary, entrance, levee or dike pipe applications		Show maximum fill height and location.	
PLAN VIEW		If fill height greater than Road Standard Plan RF-31 Class B bedding charts, use PipePac for special design	
Label "Plat P	lan"		
	ations, contours, and topography. Label	CADD Checklist Refer to: <u>Preliminary Bridge - Connect Applications</u>	
Existing utiliti	es: as noted in CAD from survey	Verify Iowa Regional Coordinate System is correct for the project site.	
Existing struc	ctures: include general description		
Proposed length: include dimensions as-needed from culvert typicals, e.g., lengths left and right, total length, dimensions A, B, C, etc.	CONNECT ProjectWise folder structure is being used.		
	Correct seed files are being used.		
Proposed sta	ation on road construction centerline	 MicroStation File naming conventions are being followed. Correct MicroStation Model naming conventions are being followed. STRUCTURES_OVER_VIEW file resides in the Bridge root folder 	
Skew angle of is preferred.	of culvert to roadway. A whole degree skew		
Skew angle o degrees	of extension to existing pipe, if other than 0		
Proposed lan	ne and shoulder widths	 STRUCTURES_OVER_VIEW_2D (model) 	
Show propos Verify with Re	ed roadway embankment and ditch grading. oad Design.	ORD PIPE_CULVERTS file contains the road pipe layor	
Label centerl	ine culvert/road construction	and modeling and STR info. The file resides in the Bridge root folder. The ORD file contains the Longitudinal	
Label station view	ing on at least two "tic" marks in the plan	Section drawing models.	

- ____ The correct levels, element templates, or features are being used. (to ensure the correct font style is applied).
- The Design Events B2 folder contains the Pipe Plat and the Preliminary Schedule Tab pdf.