



DART DESIGN STANDARDS CHECKLIST FOR DRAINAGE

PROJECT NAME	
DATE	DART – GEC NUMBER (DART Use Only)

Instructions: Complete the checklist by checking the appropriate response for each item. Return the completed checklist with the “Standard Application.” This checklist provides, but is not limited to, the most common design and construction standards DART may require. DART reserves the right to apply additional standards other than those listed on the checklist. Explain each N/A response in the space provided for additional comments.

#	Item	Yes	N/A	DART Use ¹
1	Drainage facilities for the system were designed so that the proposed improvements will not increase the flood or inundation hazard to adjacent property. (DART p. 7-2) ²			
2	Drainage facilities for the system were designed so that the proposed improvements will not raise the flood level of a drainage way. (DART p. 7-2)			
3	Drainage facilities for the system were designed so that the proposed improvements will not reduce the flood storage capacity or impede the movement of floodwater within a drainage way. (DART p. 7-2)			
4	Drainage facilities were designed for a fully developed watershed and existing zoning. (DART p. 7-2)			
5	If the system alignment crosses a floodplain, alternatives were considered to prevent an increase in the flood hazard to adjacent, upstream, or downstream property. (DART p. 7-2)			
6	Provision of compensatory flood storage was considered in each instance where fill reduces the existing flood storage area. (DART p. 7-2)			
7	If inundation of, or damage to the trackbed resulting from runoffs in excess of the capacities of existing drainage facilities may occur, consideration was given to enlargement of the existing system. (DART p. 7-2)			
8	Detention storage was considered as an alternate to enlargement of an existing downstream system. (DART p. 7-2)			
9	All drainage designs are contained in a drainage report that shall be submitted to DART for review and approval. (DART p. 7-3)			
10	The drainage report contains a description, plan and profile of existing drainage facilities. (DART p. 7-3)			
11	The drainage report contains a description, plan and profile of proposed drainage facilities (which may be half size reduction of preliminary or final design plans). (DART p. 7-3)			
12	The drainage report contains a drainage area map which complies with DART’s requirements. (DART page 7-3)			

¹ DART Use
 CON – Concur with applicant
 DNC – Do Not Concur with applicant

² Page numbers are references to the *DART Light Rail Project Design Criteria Manual*.

#	Item	Yes	N/A	DART Use ¹
13	The drainage area map shows the track station or mile post number of discharge points and drainage structures on DART right of way.			
14	The drainage area map shows the DART right of way and public right of way boundaries in relation to the crossing.			
15	The drainage report contains evaluations of drainage alternatives considered and selection of preferred drainage facilities. (DART p. 7-3)			
16	The drainage report contains all calculations for evaluating the existing drainage facilities and designing the proposed facilities using standardized calculation forms or a computer output table(s) with format similar to the standardized calculation forms provided in the <i>DART Light Rail Project Design Criteria Manual</i> . (DART p. 7-3)			
17	The drainage report contains a certificate signed and sealed by a professional engineer registered in the state of Texas that the design procedure is in full compliance with the requirements of these criteria. (DART p. 7-3)			
18	The drainage report contains an evaluation of maintenance impacts on existing systems and preferred maintenance procedures for the proposed system. (DART p. 7-3)			
19	The drainage profile drawings show freeboard for roadbed ditches 1.0 foot from the bottom of the trackway subballast for the 100-year frequency storm, 1.5 feet from the bottom of the subballast for the 25-year frequency storm, and 1.75 feet from the bottom of the subballast for the 10-year frequency storm. (DART 7-67)			

Additional Comments