



Highway Railway Crossing DESIGN STANDARDS CHECKLIST

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	Crossing Surface Material. (DART 2.17 – Grade Crossings)(AREMA 8.1.1 – Crossing Surface Material)			
2	Crossing Width: Road Width + 2’(1’ per side) (AREMA 8.1.2 – Width of Crossing)			
3	Road Height: Road and Rail on same plane min. 2’ perpendicular to tracks on each side of crossing. (AREMA 8.1.3.a – Profile and Alignment of Crossing and Approaches)			
4	Road Alignment. 90 Deg. Crossing Preferred. (AREMA 8.1.3.b – Profile and Alignment of Crossing and Approaches)			
5	Pavement Markings in accordance with MUTCD. (AREMA 8.1.4.b – Width and Marking of Approaches)			
6	Roadway Storm Water Runoff does not Discharge onto Crossing. (AREMA 8.1.5 – Drainage)			
7	Traffic Control Devices Provided. (AREMA 8.2.1 – General)			
8	Roadway Construction does not Increase the Storm-water Hydraulic Grade Line in the Ditches on DART Property (DART 7.1.1 – Design Assumptions)			
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 the requirements described in DART page 7-3.			
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.			

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

#	Item	Yes	N/A	DART Use ¹
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 Proposed 100yr Hydraulic Grade Line is 4' below the top of Rail in the ditches on DART Property. (DART 7-67)			
20	The Drainage design is Approved by the Regional Storm Water Administrator. (DART 7.1.2 – Drainage Report)			

Additional Comments	
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