

Appendix G – Culvert Design Data Form

Prepared by: _____

Project No. _____

Date: _____

Town _____

Checked: _____

Route _____

Date: _____

Location _____

1. DRAINAGE AREA

- a) Total area _____
- b) Special Considerations _____

- c) Existing culverts _____

2. DESIGN DISCHARGE _____ for _____ year frequency

- a) Rational Formula less than 81 ha (200 acres)
 T_c (Min) _____ Rainfall intensity mm/hr (in/hr) _____
 Coefficient of Imperviousness _____
- b) _____ HEC-1 SCS _____ TR20 _____ TR55 _____
 CN _____ T_c (Hr.) _____
 Rainfall distribution: _____ SCS Type III-24 Hr.
- c) Other _____

3. FISH PASSAGE REQUIRED? _____ Yes _____ No

- a) Special considerations _____

4. CULVERT HYDRAULIC DATA

- a) Size _____ Type _____
- b) Maximum permissible headwater elevation _____

- c) Proposed headwater elevation _____

- d) Elevation of channel bed at outlet _____ Inlet _____
- e) Length _____ Slope _____
- f) Inlet invert elevation _____ Outlet _____
- g) Improved inlet Yes _____ No _____
 _____ Beveled Edge _____ Side-Tapered _____ Slope-Tapered
 TAPER = ____:1 _____ (4:1 TO 6:1) FALL = _____ S_f ____:1 (2:1 to 3:1)
- h) Entrance loss coefficient _____
- i) Type and location of hydraulic control _____

5. MISCELLANEOUS DATA

- a) Height of cover _____
- b) Culvert strength requirements: CMP _____ (wall or plate thickness)
RCP _____ (Class)
- c) End treatment _____

- d) Entrance channel _____
- e) Outlet channel _____
- f) Bank protection _____
