|  |
| --- |
| **RIPRAP BASIN CHECKLIST** |
| Route       Project No.      Designer       Date      Reviewer       Date       |
| DESIGN VALUES(*IDM* Figure 203-2M) | TRIAL 1 | FINAL TRIAL |  | BASIN DIMENSIONS | FEET |
| Equivalent Depth, *dE* |       |       |  | Pool length is thelarger of: | 10*hS* |       |  |
| *D50*/*dE* |       |       |  | 3*Wo* |       |
| *D50* |       |       |  | Basin length is thelarger of: | 15*hS* |       |  |
| Froude No., *Fr* |       |       |  | 4*Wo* |       |
| *hS*/*dE* |       |       |  | Approach Thickness | 3*D50* |       |
| *hS* |       |       |  | Basin Thickness | 2*D50* |       |
| *hS*/*D50* |       |       |  |  |  |  |  |
| 2 < *hS*/*D50* < 4 |       |       |  |  |  |  |  |

|  |  |  |
| --- | --- | --- |
| TAILWATER CHECK |  | DOWNSTREAM RIPRAP (*IDM* Figure 203-2N) |
| Tailwater, *TW* |       |  | *L/DE* | *L* | *VL/Vo* | *VL* | *D50* |
| Equivalent depth, *dE* |       |  |       |       |       |       |       |
| *TW/dE* |       |  |       |       |       |       |       |
| IF *TW/dE* > 0.75, calculate riprapdownstream using *IDM* Figure 203-2N |  |       |       |       |       |       |
|  |       |       |       |       |       |
| *DE* = (4*Ac*/π)0.5 |       |  |       |       |       |       |       |