STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ARCH CULVERT
HEADWALLS, ENDWALLS
AND WARPED WINGWALLS

NOTES:
- Walls designed for 2'-0" surcharge; earth density = 120pcf; equivalent fluid pressure = 36 pcf.
- Use 5'-0" of warped wall uniformly from that of cutoff wall to that of headwall or endwall, for maximum "H" > 12'.
- Dimensions "L", "W", "H", "E", "Angle of flare", and "Slope" (as apply) are shown on the plan.

WHERE ABRASION IS ANTICIPATED, INCREASE APRON THICKNESS TO 7" MINIMUM TO PROVIDE 2" MINIMUM REINFORCEMENT COVERAGE.