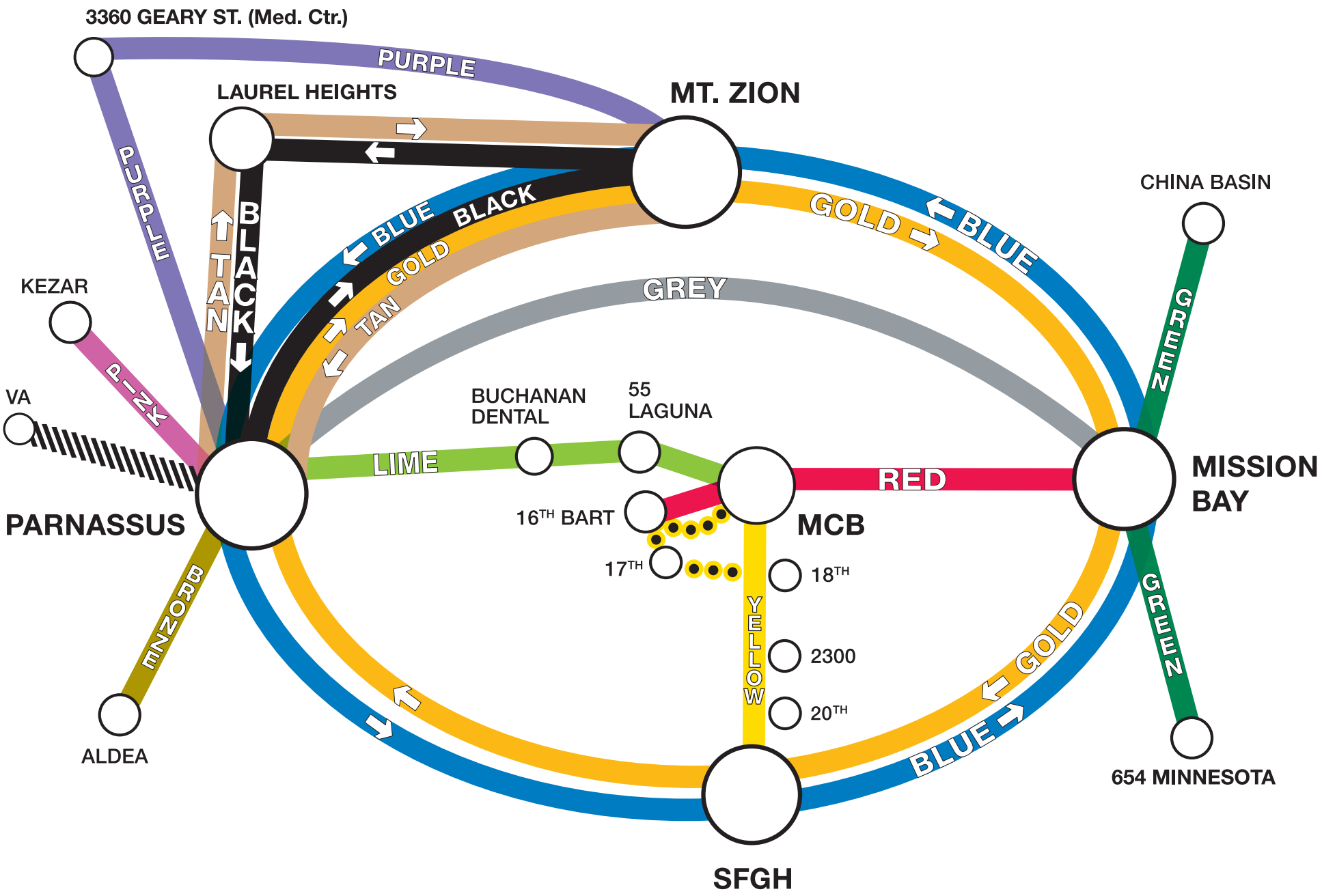UCSF SHUTTLE SYSTEM