

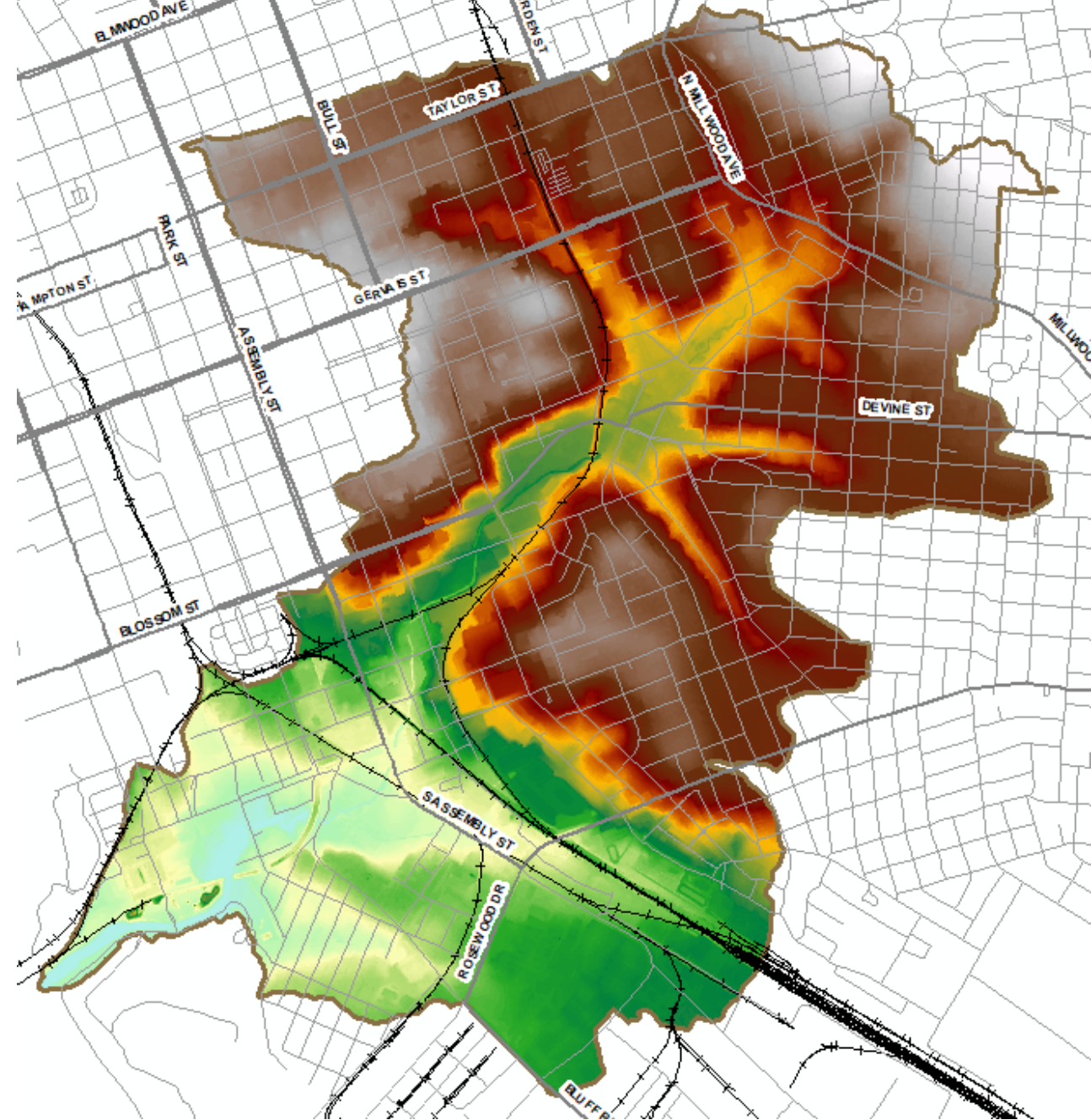


THE CITY OF COLUMBIA'S ROCKY BRANCH CIP

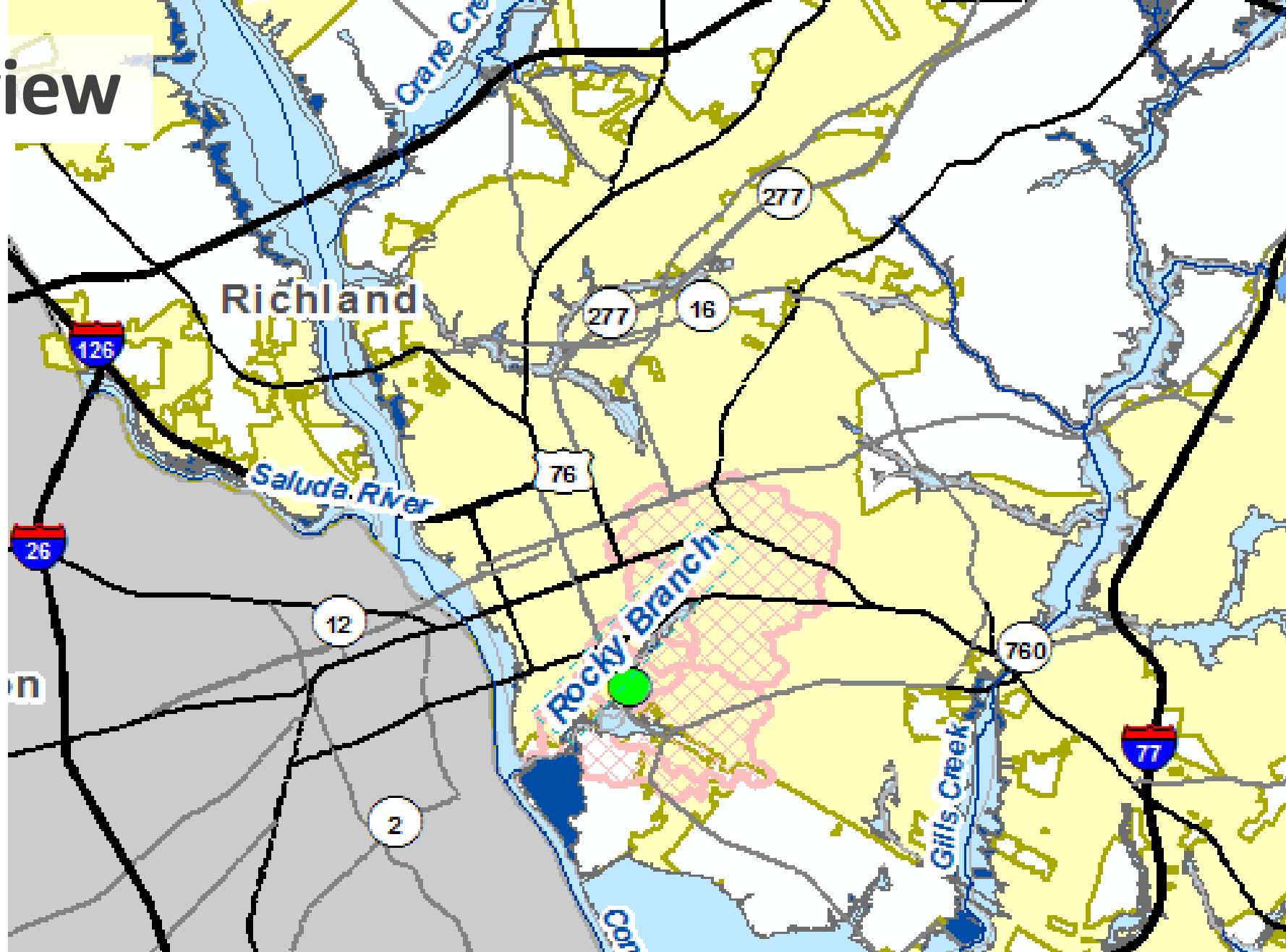
A WATERSHED WIDE APPROACH TO FLOOD MITIGATION

Outline

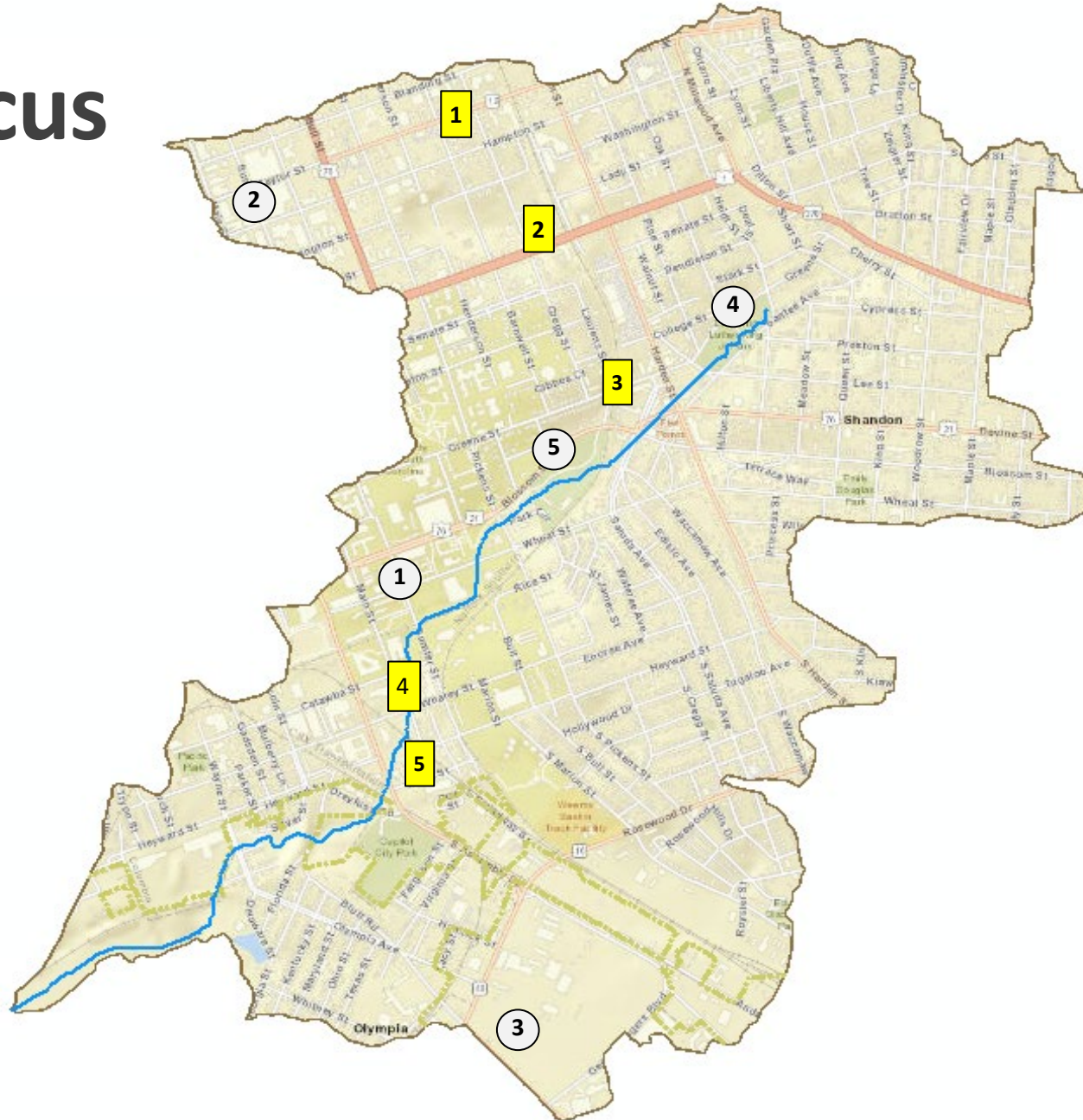
- Overview
- Part 1: Taylor & Washington
 - Problems, Alternatives and Next Steps
- Part 2: Gregg & Gervais
 - Problems, Alternatives and Next Steps
- Part 3: Five Points
 - Problems, Alternatives and Next Steps
- Part 4: Whaley & Main
 - Problems, Alternatives and Next Steps
- Questions



Overview



Project Focus Areas



Problem/Focus Areas

- 1 Taylor / Washington
- 2 Gregg / Gervais
- 3 Five Points
- 4 Whaley / Main
- 5 RR Below Whaley

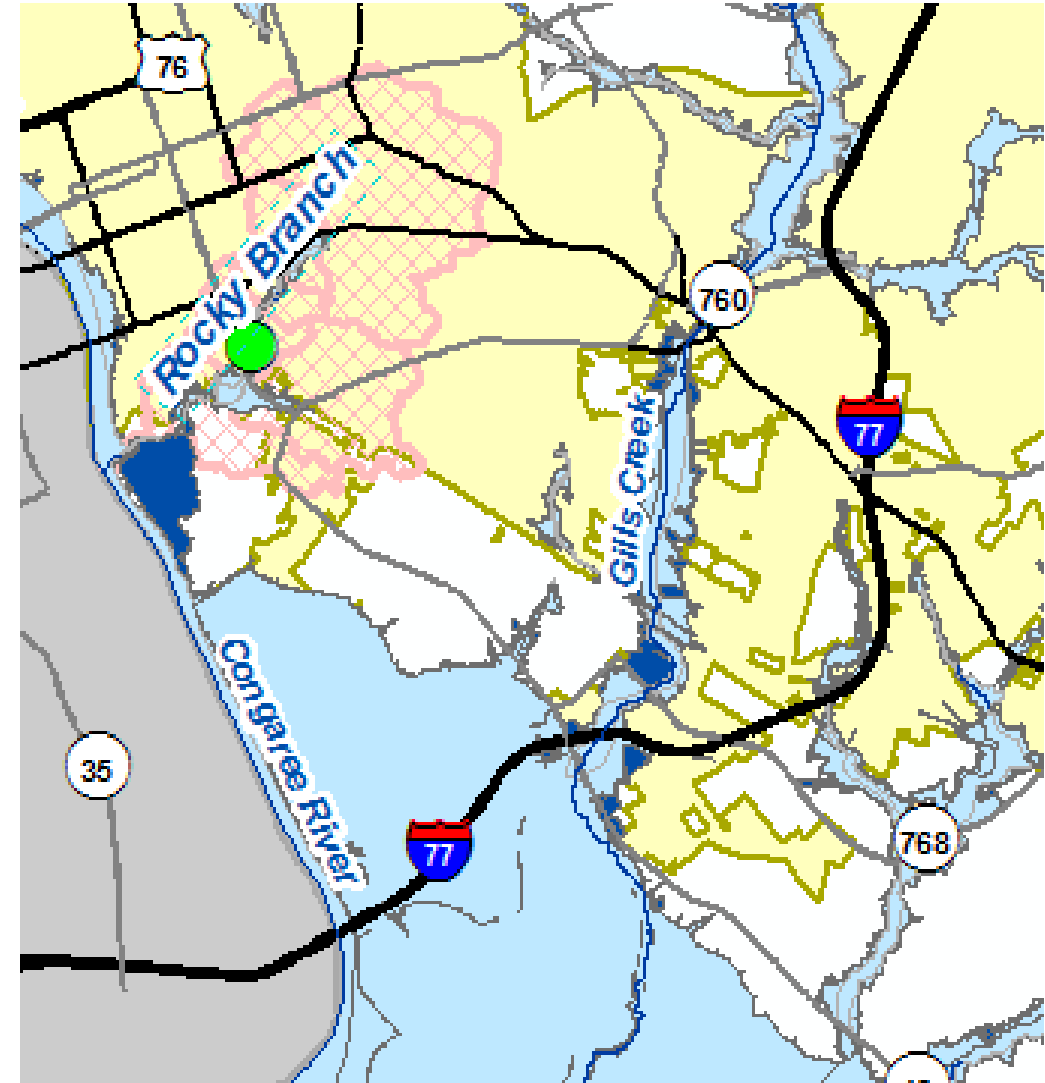
Other Points of Interest

- 1 USC Campus
- 2 Downtown
- 3 Fair Grounds / Athletic Fields
- 4 MLK Park
- 5 Maxcy-Gregg Park



Project Goals

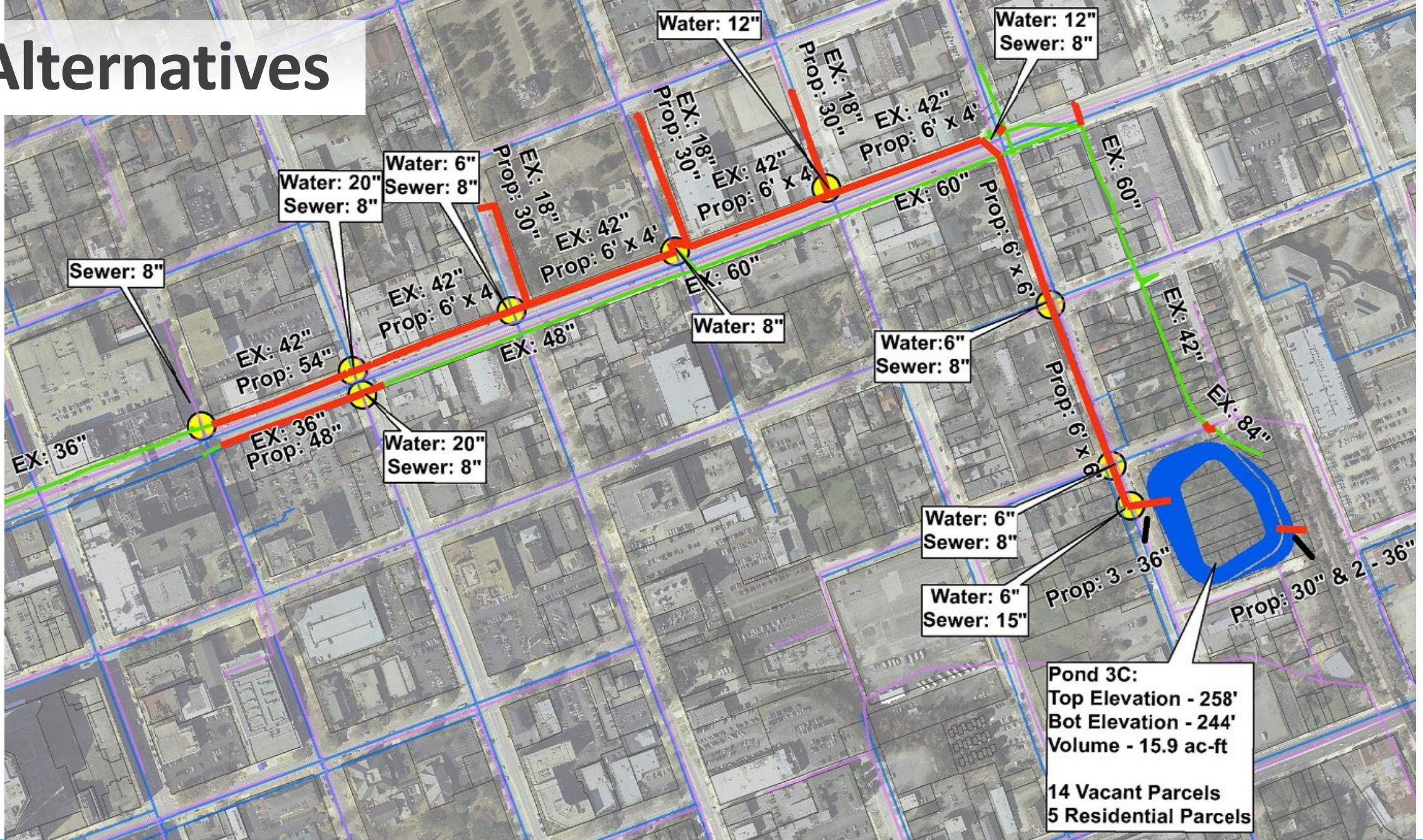
- Reduce street and structural flooding throughout the watershed
- 10-Year level of service at a minimum
- Limit impacts to downstream portions of the watershed
- Coordinate with complementary projects (e.g. sanitary sewer projects and park improvements within the watershed)



1 Taylor / Washington



Alternatives



2

Gregg / Gervais

Gregg St

Gervais St

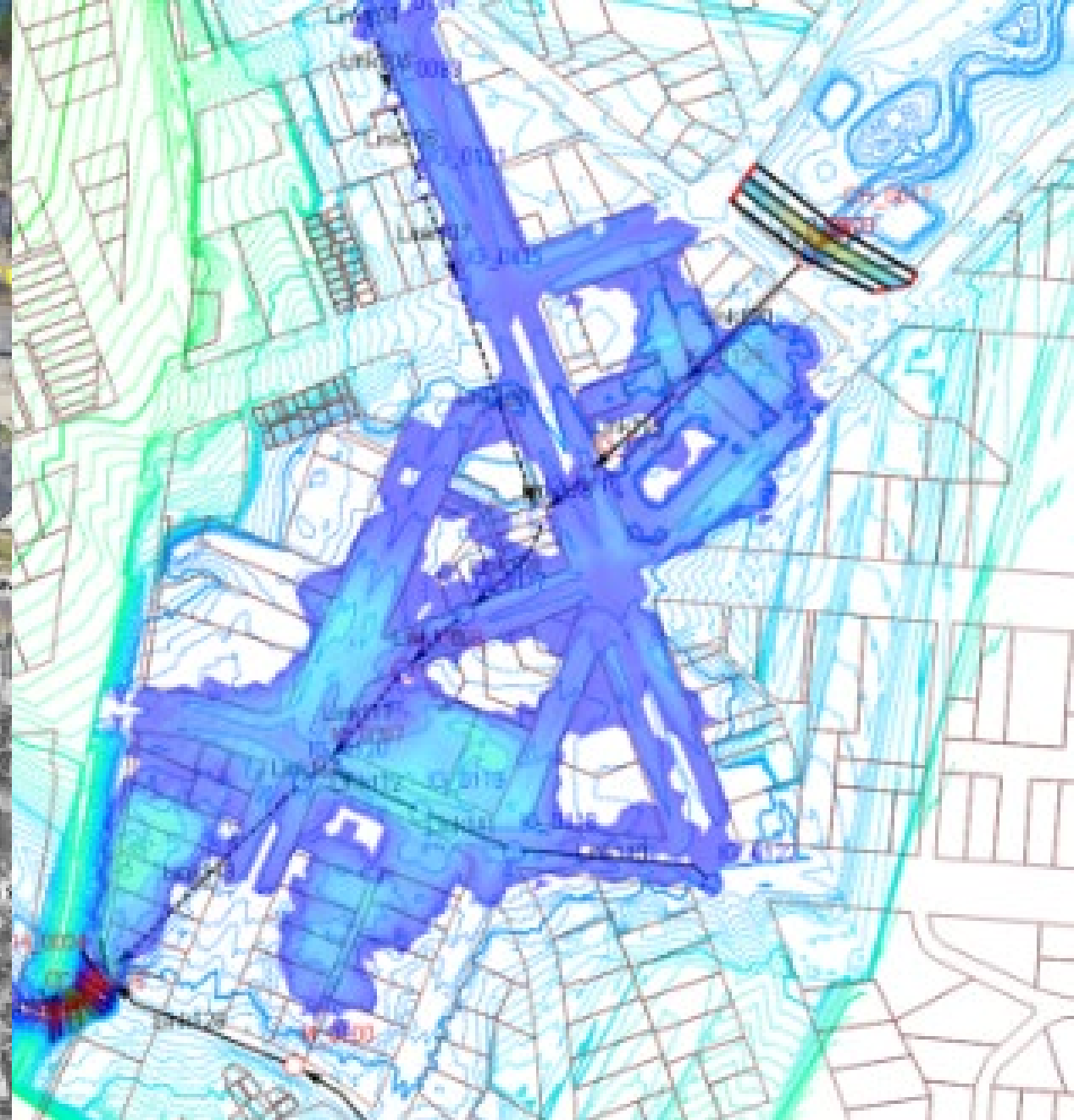


Alternatives



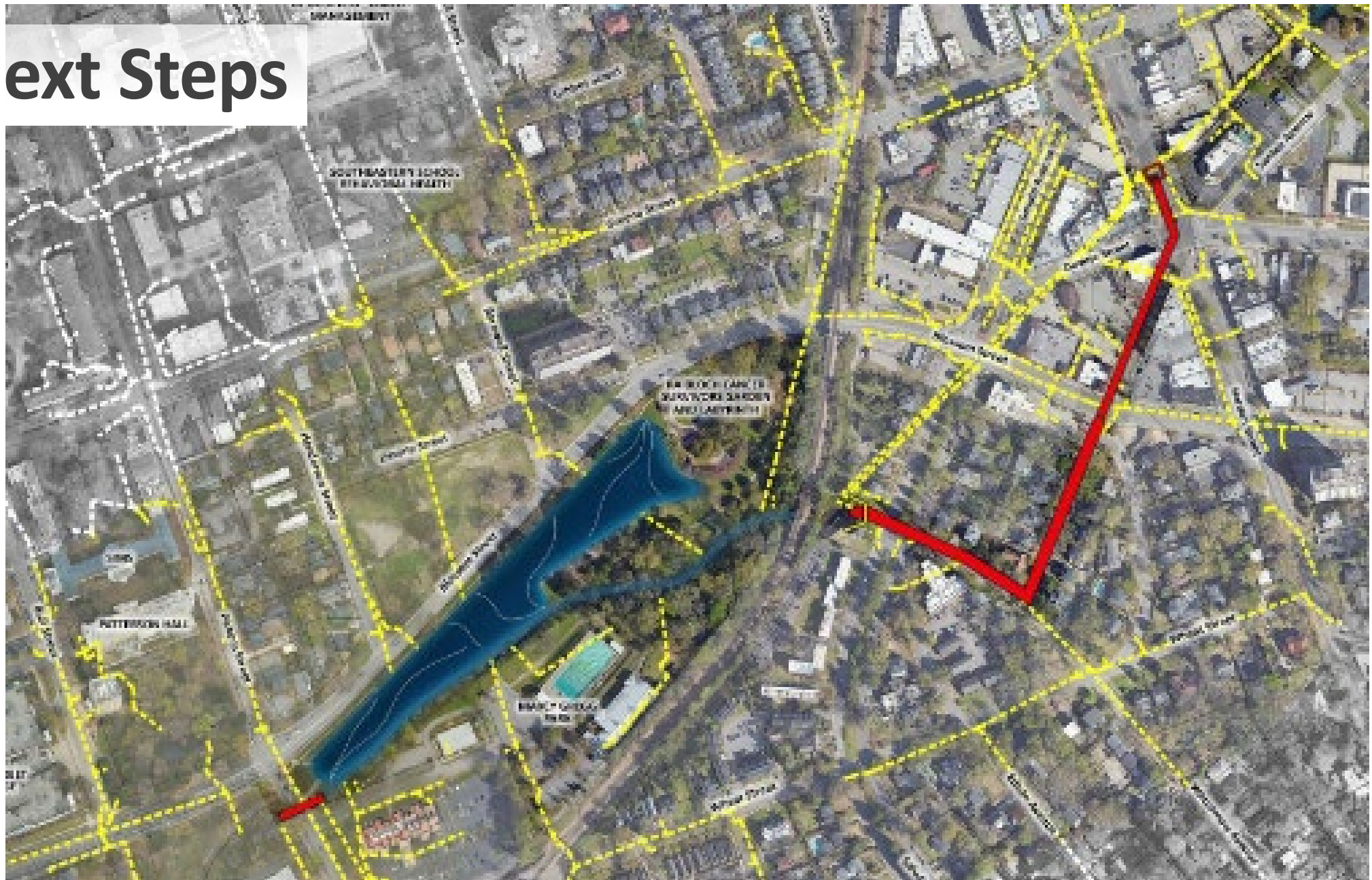


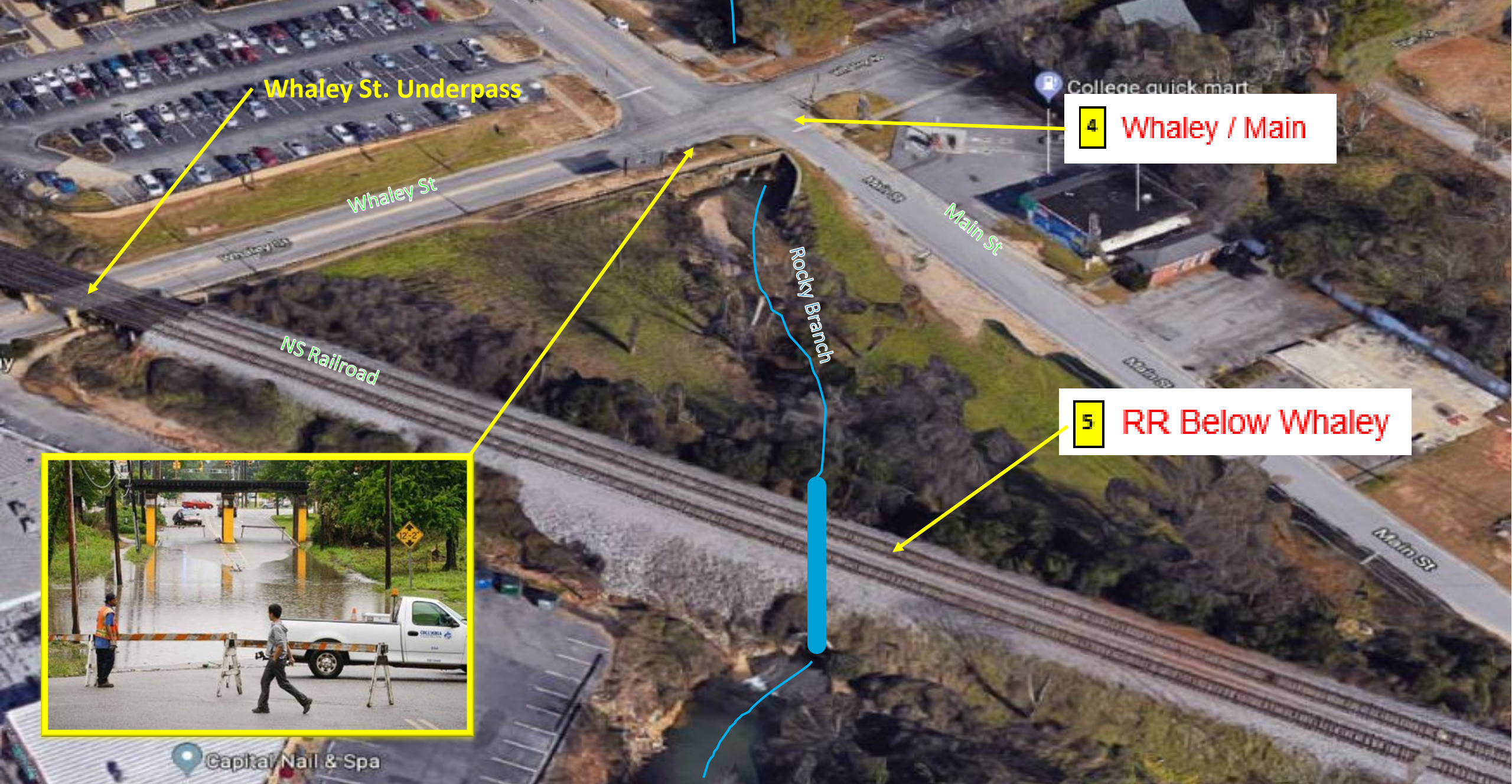
Alternatives



The figure is an aerial photograph of an urban area with a proposed rail alignment overlaid. The alignment is shown as a red line with yellow dashed borders. It starts at station 0+00.00 on the left and proceeds generally east-southeast. Key streets intersected include Wheat Street, Blossom Street, and others. Stationing markers are placed at intervals along the alignment, such as 10+00.00, 20+00.00, 30+00.00, 40+00.00, 50+00.00, 60+00.00, 70+00.00, 80+00.00, 90+00.00, 100+00.00, 110+00.00, 120+00.00, 130+00.00, 140+00.00, 150+00.00, 160+00.00, 170+00.00, 180+00.00, 190+00.00, 200+00.00, 210+00.00, 220+00.00, 230+00.00, 240+00.00, 250+00.00, 260+00.00, 270+00.00, 280+00.00, 290+00.00, 300+00.00, 310+00.00, 320+00.00, 330+00.00, 340+00.00, 350+00.00, 360+00.00, 370+00.00, 380+00.00, 390+00.00, 400+00.00, 410+00.00, 420+00.00, 430+00.00, 440+00.00, 450+00.00, 460+00.00, 470+00.00, 480+00.00, 490+00.00, 500+00.00, 510+00.00, 520+00.00, 530+00.00, 540+00.00, 550+00.00, 560+00.00, 570+00.00, 580+00.00, 590+00.00, 600+00.00, 610+00.00, 620+00.00, 630+00.00, 640+00.00, 650+00.00, 660+00.00, 670+00.00, 680+00.00, 690+00.00, 700+00.00, 710+00.00, 720+00.00, 730+00.00, 740+00.00, 750+00.00, 760+00.00, 770+00.00, 780+00.00, 790+00.00, 800+00.00, 810+00.00, 820+00.00, 830+00.00, 840+00.00, 850+00.00, 860+00.00, 870+00.00, 880+00.00, 890+00.00, 900+00.00, 910+00.00, 920+00.00, 930+00.00, 940+00.00, 950+00.00, 960+00.00, 970+00.00, 980+00.00, 990+00.00, 1000+00.00, 1010+00.00, 1020+00.00, 1030+00.00, 1040+00.00, 1050+00.00, 1060+00.00, 1070+00.00, 1080+00.00, 1090+00.00, 1100+00.00, 1110+00.00, 1120+00.00, 1130+00.00, 1140+00.00, 1150+00.00, 1160+00.00, 1170+00.00, 1180+00.00, 1190+00.00, 1200+00.00, 1210+00.00, 1220+00.00, 1230+00.00, 1240+00.00, 1250+00.00, 1260+00.00, 1270+00.00, 1280+00.00, 1290+00.00, 1300+00.00, 1310+00.00, 1320+00.00, 1330+00.00, 1340+00.00, 1350+00.00, 1360+00.00, 1370+00.00, 1380+00.00, 1390+00.00, 1400+00.00, 1410+00.00, 1420+00.00, 1430+00.00, 1440+00.00, 1450+00.00, 1460+00.00, 1470+00.00, 1480+00.00, 1490+00.00, 1500+00.00, 1510+00.00, 1520+00.00, 1530+00.00, 1540+00.00, 1550+00.00, 1560+00.00, 1570+00.00, 1580+00.00, 1590+00.00, 1600+00.00, 1610+00.00, 1620+00.00, 1630+00.00, 1640+00.00, 1650+00.00, 1660+00.00, 1670+00.00, 1680+00.00, 1690+00.00, 1700+00.00, 1710+00.00, 1720+00.00, 1730+00.00, 1740+00.00, 1750+00.00, 1760+00.00, 1770+00.00, 1780+00.00, 1790+00.00, 1800+00.00, 1810+00.00, 1820+00.00, 1830+00.00, 1840+00.00, 1850+00.00, 1860+00.00, 1870+00.00, 1880+00.00, 1890+00.00, 1900+00.00, 1910+00.00, 1920+00.00, 1930+00.00, 1940+00.00, 1950+00.00, 1960+00.00, 1970+00.00, 1980+00.00, 1990+00.00, 2000+00.00, 2010+00.00, 2020+00.00, 2030+00.00, 2040+00.00, 2050+00.00, 2060+00.00, 2070+00.00, 2080+00.00, 2090+00.00, 2100+00.00, 2110+00.00, 2120+00.00, 2130+00.00, 2140+00.00, 2150+00.00, 2160+00.00, 2170+00.00, 2180+00.00, 2190+00.00, 2200+00.00, 2210+00.00, 2220+00.00, 2230+00.00, 2240+00.00, 2250+00.00, 2260+00.00, 2270+00.00, 2280+00.00, 2290+00.00, 2300+00.00, 2310+00.00, 2320+00.00, 2330+00.00, 2340+00.00, 2350+00.00, 2360+00.00, 2370+00.00, 2380+00.00, 2390+00.00, 2400+00.00, 2410+00.00, 2420+00.00, 2430+00.00, 2440+00.00, 2450+00.00, 2460+00.00, 2470+00.00, 2480+00.00, 2490+00.00, 2500+00.00, 2510+00.00, 2520+00.00, 2530+00.00, 2540+00.00, 2550+00.00, 2560+00.00, 2570+00.00, 2580+00.00, 2590+00.00, 2600+00.00, 2610+00.00, 2620+00.00, 2630+00.00, 2640+00.00, 2650+00.00, 2660+00.00, 2670+00.00, 2680+00.00, 2690+00.00, 2700+00.00, 2710+00.00, 2720+00.00, 2730+00.00, 2740+00.00, 2750+00.00, 2760+00.00, 2770+00.00, 2780+00.00, 2790+00.00, 2800+00.00, 2810+00.00, 2820+00.00, 2830+00.00, 2840+00.00, 2850+00.00, 2860+00.00, 2870+00.00, 2880+00.00, 2890+00.00, 2900+00.00, 2910+00.00, 2920+00.00, 2930+00.00, 2940+00.00, 2950+00.00, 2960+00.00, 2970+00.00, 2980+00.00, 2990+00.00, 3000+00.00, 3010+00.00, 3020+00.00, 3030+00.00, 3040+00.00, 3050+00.00, 3060+00.00, 3070+00.00, 3080+00.00, 3090+00.00, 3100+00.00, 3110+00.00, 3120+00.00, 3130+00.00, 3140+00.00, 3150+00.00, 3160+00.00, 3170+00.00, 3180+00.00, 3190+00.00, 3200+00.00, 3210+00.00, 3220+00.00, 3230+00.00, 3240+00.00, 3250+00.00, 3260+00.00, 3270+00.00, 3280+00.00, 3290+00.00, 3300+00.00, 3310+00.00, 3320+00.00, 3330+00.00, 3340+00.00, 3350+00.00, 3360+00.00, 3370+00.00, 3380+00.00, 3390

Next Steps





Whaley St. Underpass

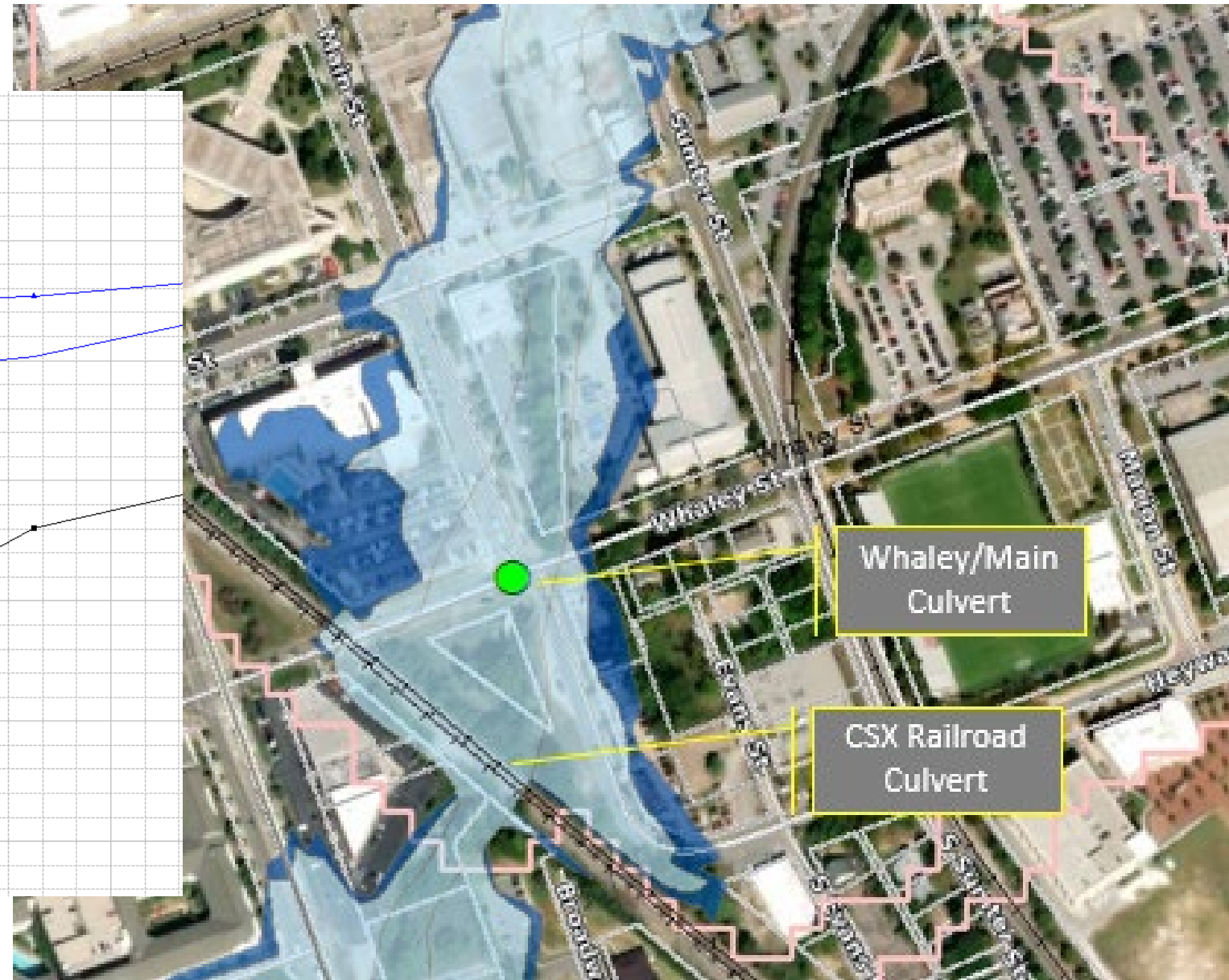
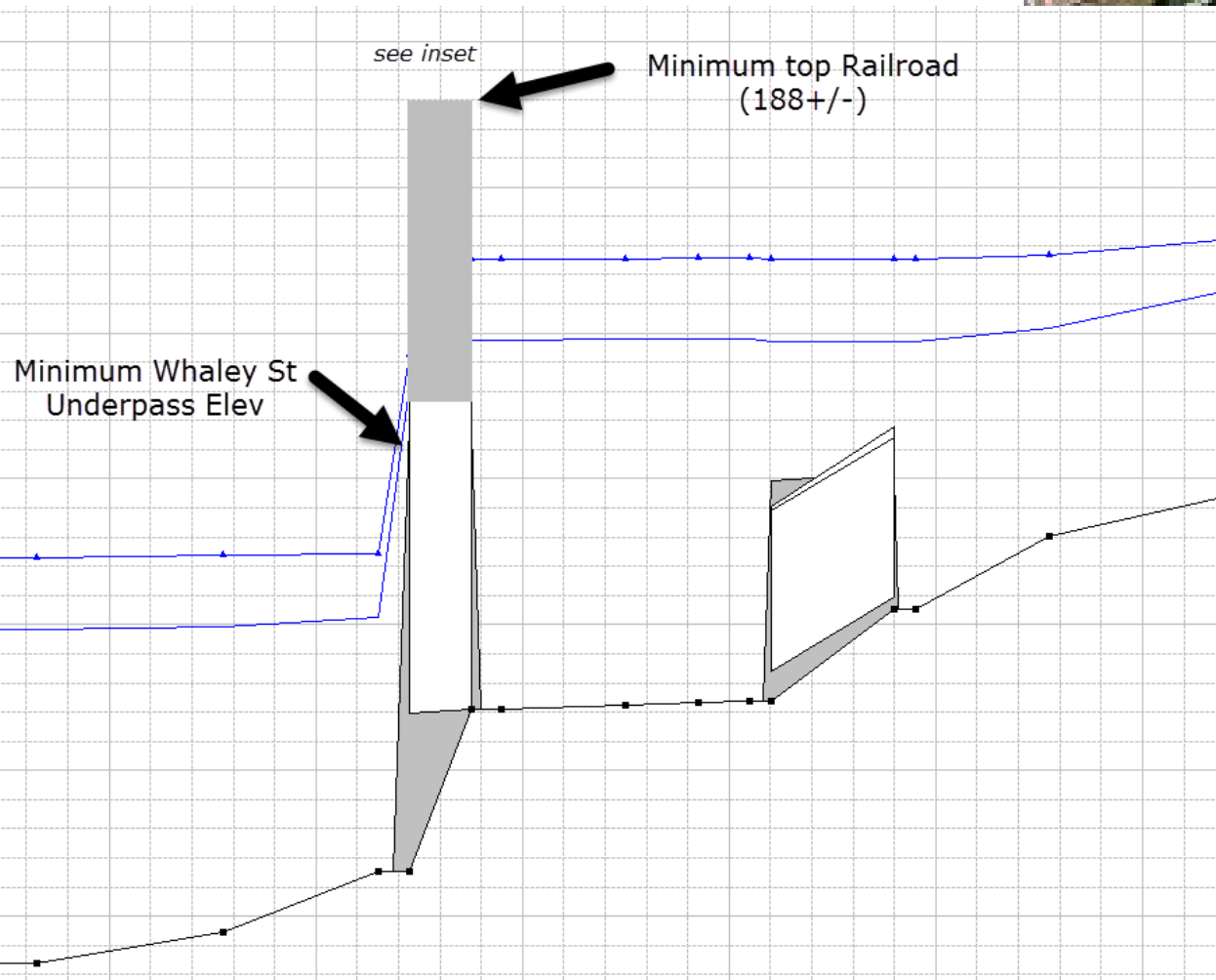
4 Whaley / Main

5 RR Below Whaley



Capital Nail & Spa

Alternatives



Next Steps



Questions?



Andrea Bolling, PE, CFM
Columbia Water- Engineering
andrea.bolling@columbiasc.gov



Andrew Martin, PE, CFM
ESP Associates, Inc.
amartin@espassociates.com