

GROVELAND COMMUNITY SERVICES DISTRICT

SEWER COLLECTION SYSTEM IMPROVEMENTS PROJECT  
PRELIMINARY ENGINEERING REPORT



LEGEND

- REHABILITATE SEWER MAIN
- REPLACE SEWER MAIN
- KEEP EXISTING SEWER MAIN
- SPOT REPAIR (SEE REPORT)

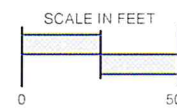
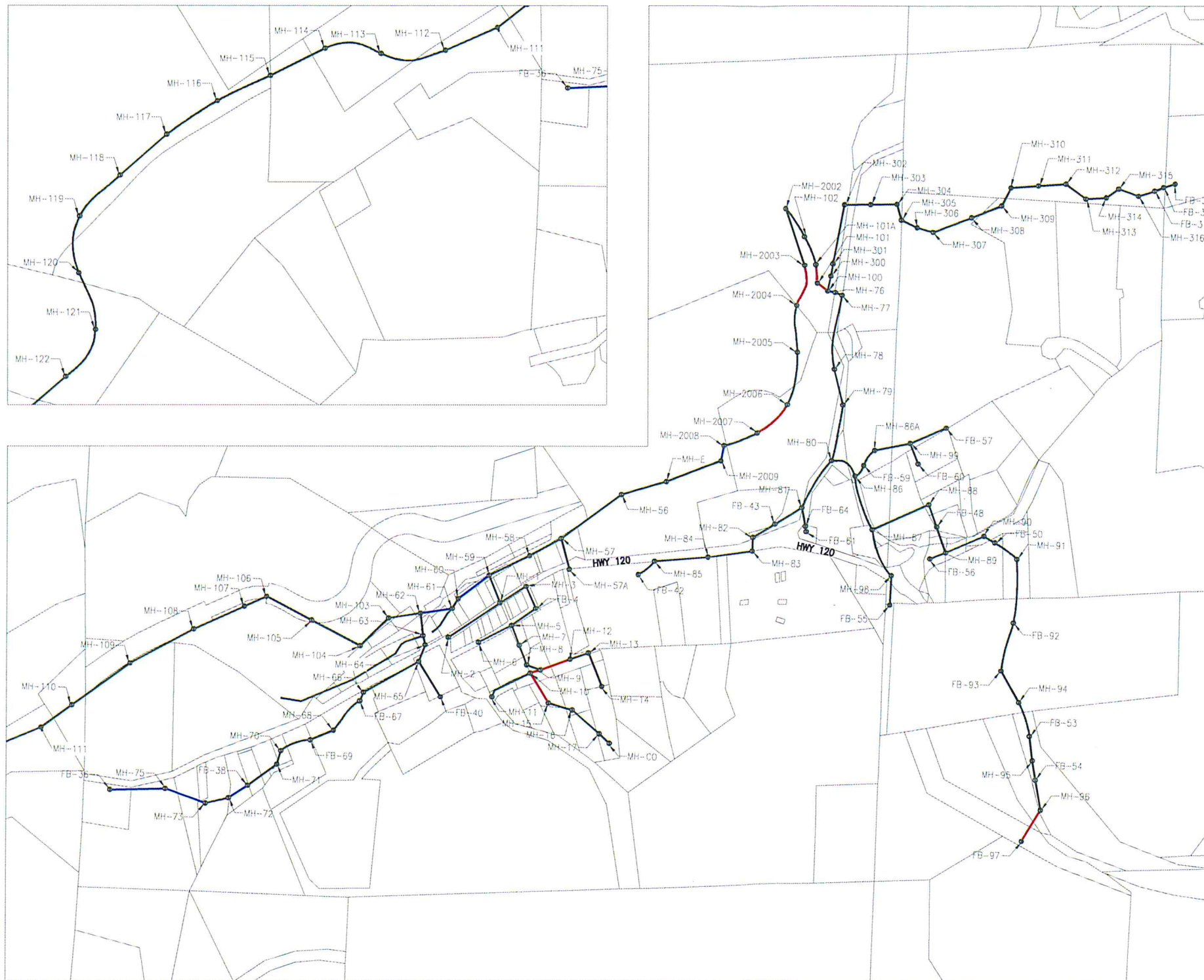


FIGURE 4-1  
ALTERNATIVE II  
BIG OAK FLAT SEWER MAINS TO  
BE REPLACED/REHABILITATED



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- KEEP EXISTING SEWER MAIN —

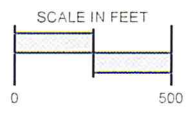


FIGURE 4-2  
ALTERNATIVE II  
GROVELAND SEWER MAINS TO  
BE REPLACED/REHABILITATED

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LEGEND

- NEW MANHOLE — MH(N)
- MANHOLE REHABILITATION — MH(R)
- SEALED MANHOLE LID — MH(R)
- LOCKING MANHOLE LID — MH(R)
- BRING LID TO GRADE — MH(R)

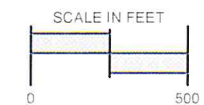


FIGURE 4-3  
ALTERNATIVES II & III  
BIG OAK FLAT MANHOLE  
IMPROVEMENTS

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LEGEND

- NEW MANHOLE — MH(N)
- MANHOLE REHABILITATION — MH(R)
- SEALED MANHOLE LID — MH(R)
- LOCKING MANHOLE LID — MH(R)
- BRING LID TO GRADE — MH(R)

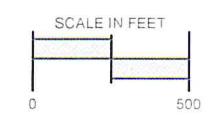


FIGURE 4-4  
ALTERNATIVE II & III  
GROVELAND MANHOLE  
IMPROVEMENTS