

Phase 1 – Encapsulated Areas
Bannon Drive; Jay Road; Johnson Street (Mark Road to Rea Street); Rea Street (Chestnut Street to Abbott Street); Salem Street (Anne Road to Nutmeg Lane); North Cross Road (existing dry sewer)
Phase 2 – Osgood Street Corridor
Bradford Street (Barker Street to Bradford Street); Clark Street; Holt Road; Osgood Street (Bradford Street to Barker Street)
Phase 3 – Farnum Street
Brook Street; Carlton Lane; Chestnut Street (Marian Drive to Route 114); Cricket Lane; Evergreen Street; Farnum Street; Gilman Lane; Johnny Cakes Lane; Johnson Street (Holly Ridge Rd. to Route 114); Marion Drive; Mill Road; Oakes Drive; Raleigh Tavern Lane; Shannon Lane; Spring Hill Road; Summer Street (Molly Towne Road to Farnum Street); Tucker Farm Road
Phase 4 – Salem / Laconia
Beaver Brook Lane; Crossbow Lane; Equestrian Drive; Forest Street (Pasture Lane to Sharpners Pond Lane); Granville Lane; Hawkins Lane; Ingalls Street (Forest Street to Crossbow Lane); Laconia Circle; Lacy Street (Forest Street to 5,000 ft East); Olympic Lane; Patton Lane; Pheasant Brook Lane; Salem Street (Boxford St. to Sharpners Pond Road)]; Turtle Lane
Phase 5 – Boston / Turnpike
Boston Street (Town line to Turnpike Street); Gray Street; Old Cart Way; Paddock Lane; Penni Lane; Sullivan Street; Turnpike Street (Brook Street to Berry Street); Willow Ridge Road; Windkist Farm Road

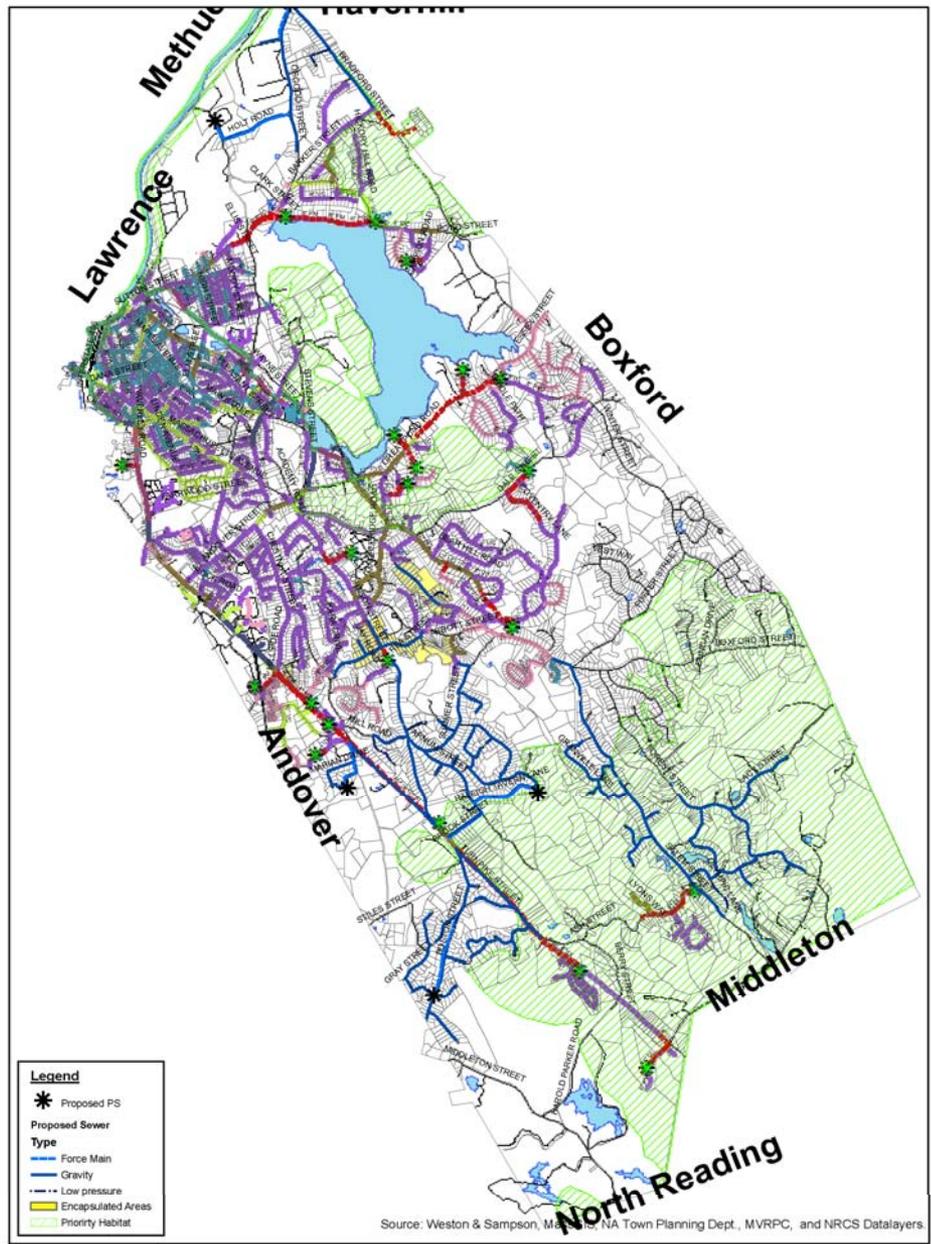
The completion of the five sewer extensions will add approximately 134,000 linear feet of gravity sewer, 6,500 linear feet of low-pressure sewer, 5 pumping stations and 16,100 linear feet of force main. The following table lists the estimated cost for each recommended phase of sewer.

Project Cost Estimate Summary

Phase	Area	Project Cost
I	Encapsulated Areas	\$4,830,000
II	Osgood Street Corridor	\$10,430,000
III	Farnum Street	\$25,600,000
IV	Salem/Laconia	\$20,410,000
V	Boston Turnpike	\$15,800,000
Total Project Cost for Sewer Extensions		\$77,070,000
Downstream Improvements		\$13,000,000
Total Project Cost		\$90,070,000

Recommended Betterment Policy

S E A recommends that the Town amend its current sewer betterment policy to increase the percentage paid by project abutters through betterments from 20 percent to 60 percent. This is in-line with other communities' policies and strikes a balance between individual and community



0 7,000 Feet
 1 inch = 3,500 feet



Phase 1 through 5

Encapsulated Areas
PROPOSED SEWER PHASING
 Town of North Andover, Massachusetts

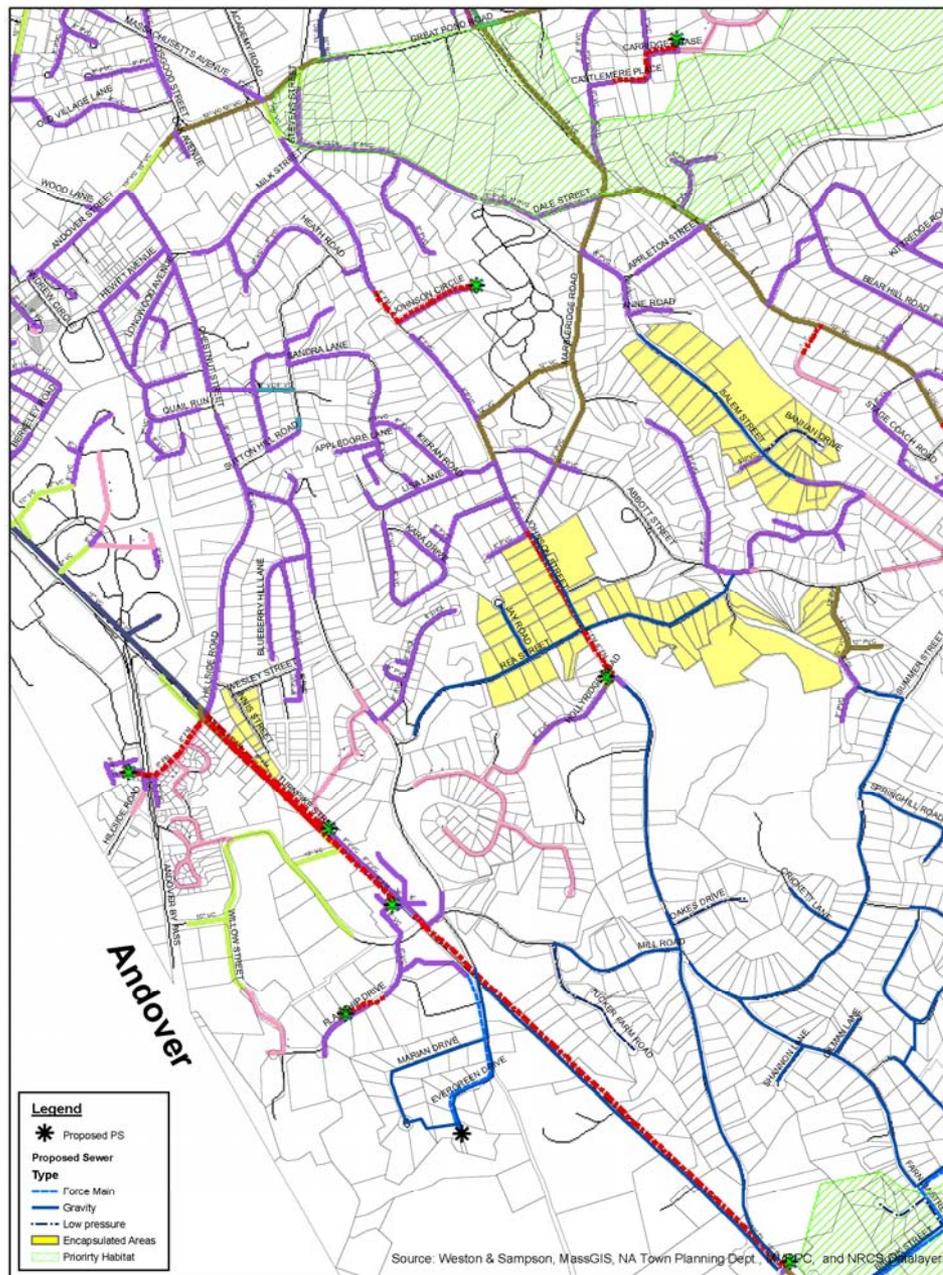
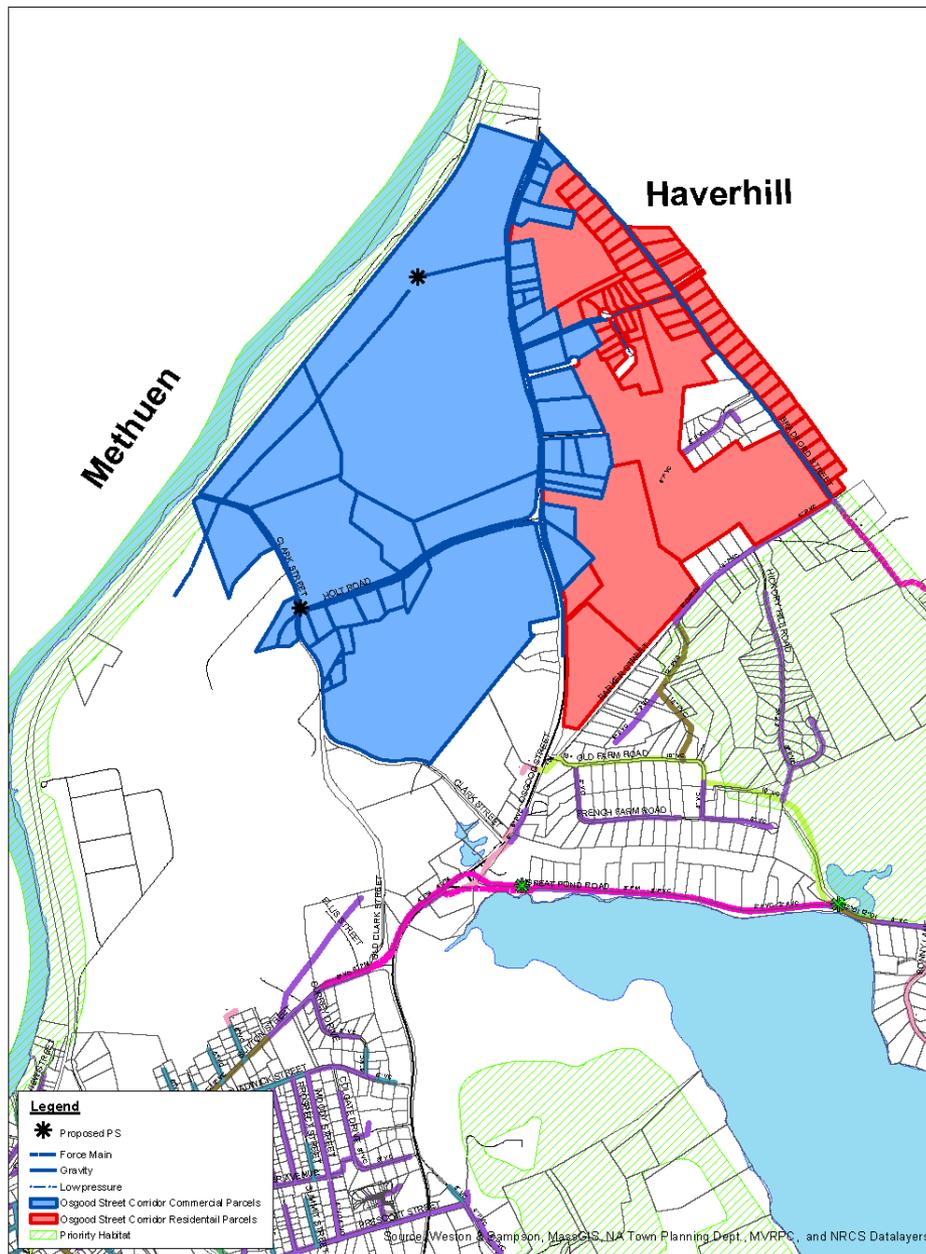


Figure 5-1 Phase 1

Encapsulated Areas



Legend

- * Proposed PS
- Force Main
- Gravity
- Low pressure
- Osgood Street Corridor Commercial Parcels
- Osgood Street Corridor Residential Parcels
- Priority Habitat

Source: Weston & Sampson, MassGIS, NA Town Planning Dept., MVRPC, and NRCS Datalayers.



Figure 5-2 Phase 2
Osgood Street Corridor Priority Area

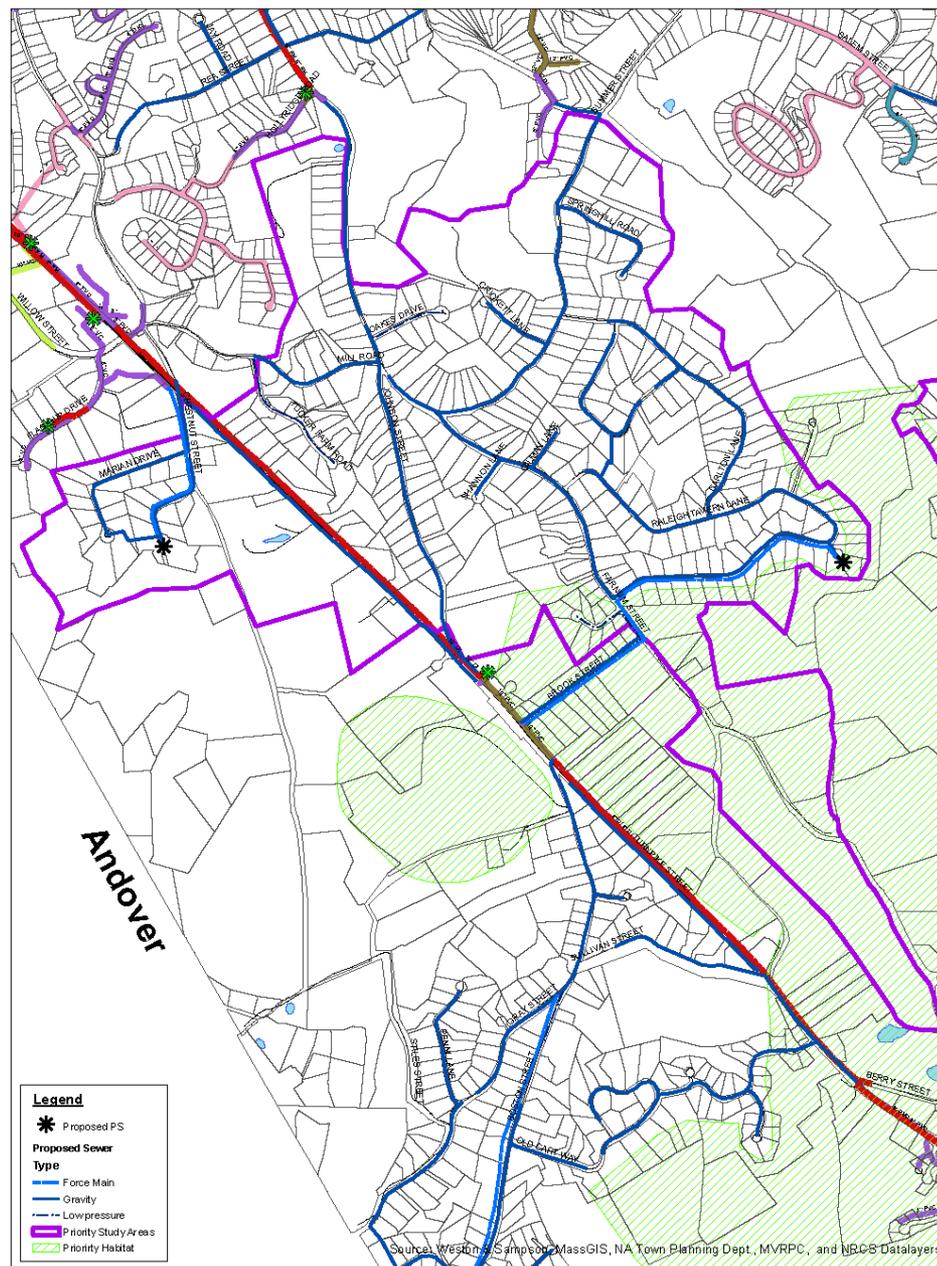


Figure 5-3 Phase 3
Farnum Priority Area
PROPOSED SEWER PHASING

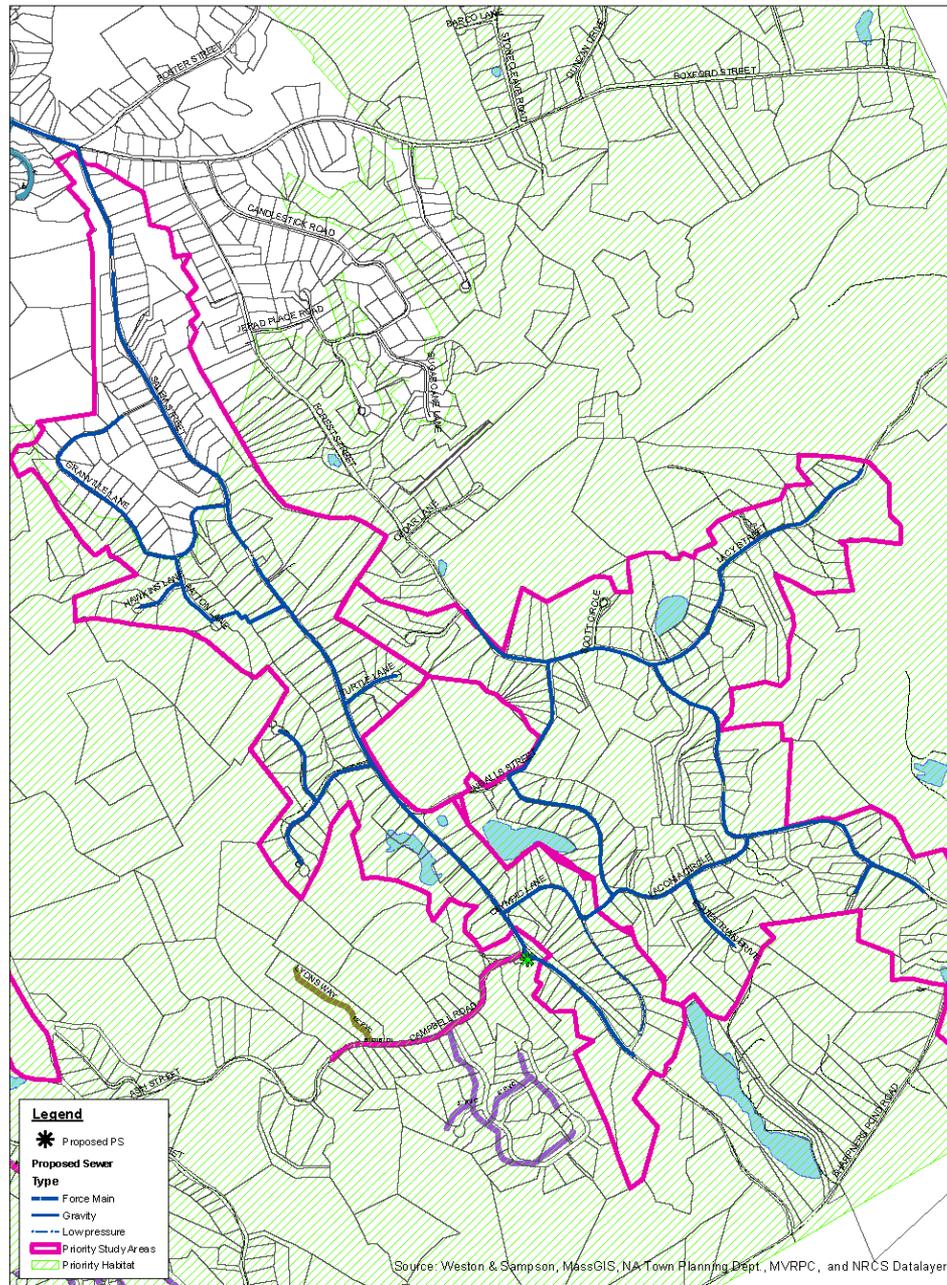


Figure 5-4 Phase 4
Salem and Laconia Priority Areas

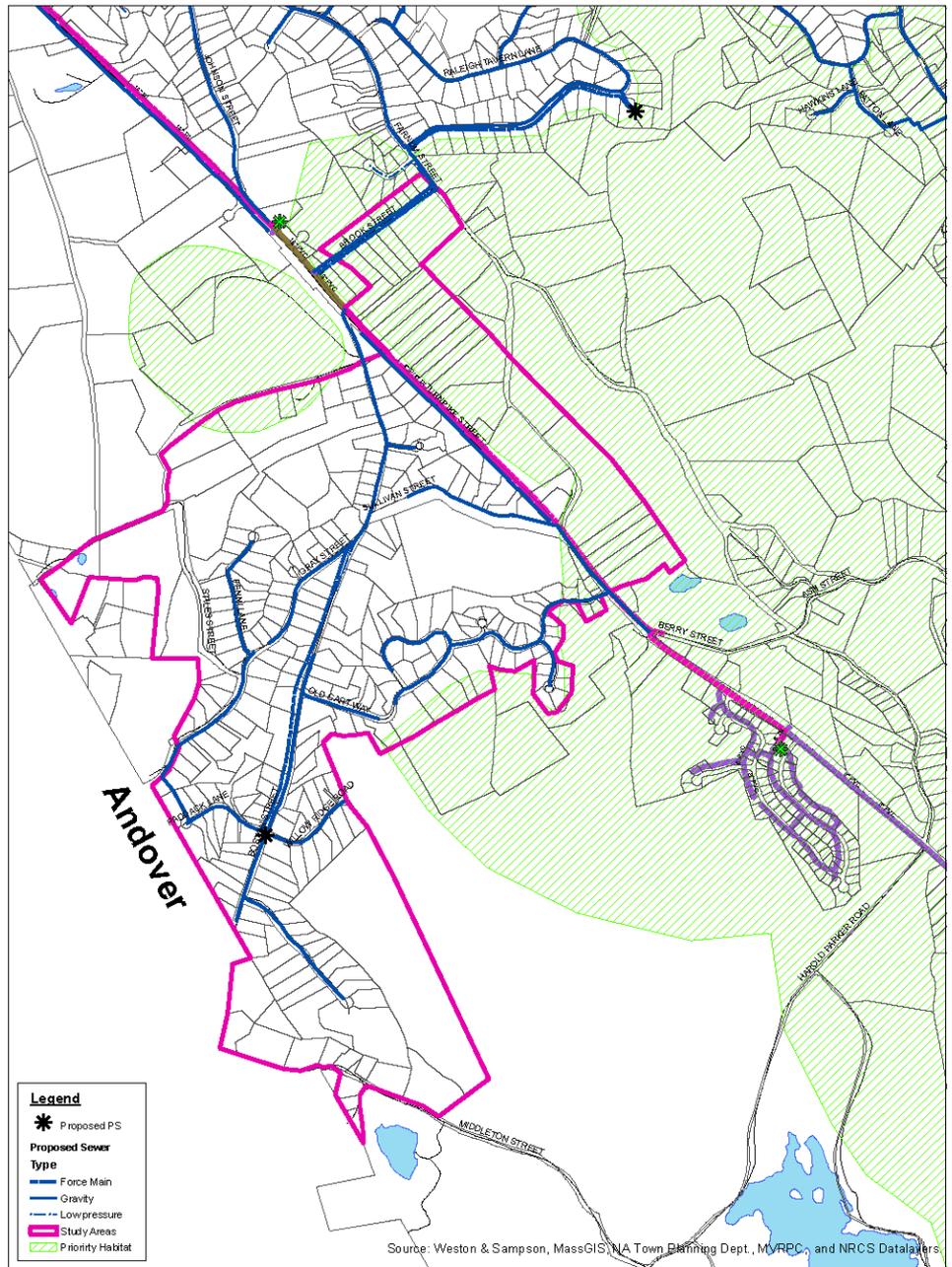


Figure 5-5 Phase 5
Boston/Turnpike Priority Area