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I-93 Transit Investment Study

Technical Advisory Committee
November 7, 2006

HNTB

Agenda

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- Schedule
- Public involvement
- Model development
- Existing conditions
- Stakeholder meetings/study issues
- Next steps

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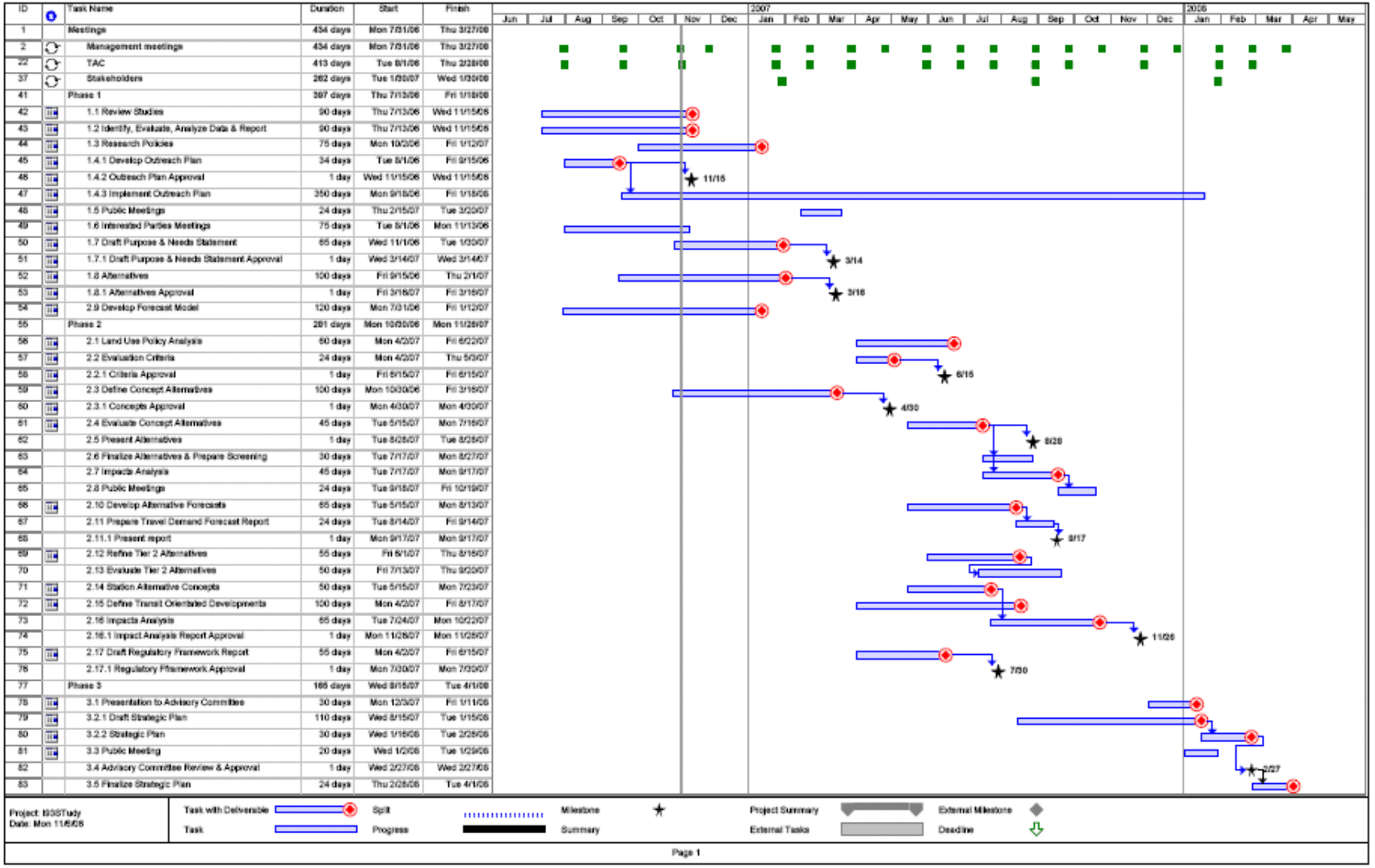
Schedule



ID	Task Name	Duration	Start	Finish
1	Meetings	434 days	Mon 7/31/06	Thu 3/27/08
2	Management meetings	434 days	Mon 7/31/06	Thu 3/27/08
22	TAC	413 days	Tue 8/1/06	Thu 2/28/08
37	Stakeholders	282 days	Tue 1/30/07	Wed 1/30/08
41	Phase 1	397 days	Thu 7/13/06	Fri 1/18/08
42	1.1 Review Studies	90 days	Thu 7/13/06	Wed 11/15/06
43	1.2 Identify, Evaluate, Analyze Data & Report	90 days	Thu 7/13/06	Wed 11/15/06
44	1.3 Research Policies	75 days	Mon 10/2/06	Fri 1/12/07
45	1.4.1 Develop Outreach Plan	34 days	Tue 8/1/06	Fri 9/15/06
46	1.4.2 Outreach Plan Approval	1 day	Wed 11/15/06	Wed 11/15/06
47	1.4.3 Implement Outreach Plan	350 days	Mon 9/18/06	Fri 1/18/08
48	1.5 Public Meetings	24 days	Thu 2/15/07	Tue 3/20/07
49	1.6 Interested Parties Meetings	75 days	Tue 8/1/06	Mon 11/13/06
50	1.7 Draft Purpose & Needs Statement	65 days	Wed 11/1/06	Tue 1/30/07
51	1.7.1 Draft Purpose & Needs Statement Approval	1 day	Wed 3/14/07	Wed 3/14/07
52	1.8 Alternatives	100 days	Fri 9/15/06	Thu 2/1/07
53	1.8.1 Alternatives Approval	1 day	Fri 3/16/07	Fri 3/16/07
54	2.9 Develop Forecast Model	120 days	Mon 7/31/06	Fri 1/12/07
55	Phase 2	281 days	Mon 10/30/06	Mon 11/26/07
56	2.1 Land Use Policy Analysis	60 days	Mon 4/2/07	Fri 6/22/07
57	2.2 Evaluation Criteria	24 days	Mon 4/2/07	Thu 5/3/07
58	2.2.1 Criteria Approval	1 day	Fri 6/15/07	Fri 6/15/07
59	2.3 Define Concept Alternatives	100 days	Mon 10/30/06	Fri 3/16/07
60	2.3.1 Concepts Approval	1 day	Mon 4/30/07	Mon 4/30/07
61	2.4 Evaluate Concept Alternatives	45 days	Tue 5/15/07	Mon 7/16/07
62	2.5 Present Alternatives	1 day	Tue 8/28/07	Tue 8/28/07
63	2.6 Finalize Alternatives & Prepare Screening	30 days	Tue 7/17/07	Mon 8/27/07
64	2.7 Impacts Analysis	45 days	Tue 7/17/07	Mon 9/17/07
65	2.8 Public Meetings	24 days	Tue 9/18/07	Fri 10/19/07
66	2.10 Develop Alternative Forecasts	65 days	Tue 5/15/07	Mon 8/13/07
67	2.11 Prepare Travel Demand Forecast Report	24 days	Tue 8/14/07	Fri 9/14/07
68	2.11.1 Present report	1 day	Mon 9/17/07	Mon 9/17/07
69	2.12 Refine Tier 2 Alternatives	55 days	Fri 8/1/07	Thu 9/18/07
70	2.13 Evaluate Tier 2 Alternatives	50 days	Fri 7/13/07	Thu 9/20/07
71	2.14 Station Alternative Concepts	50 days	Tue 5/15/07	Mon 7/23/07
72	2.15 Define Transit Orientated Developments	100 days	Mon 4/2/07	Fri 8/17/07
73	2.16 Impacts Analysis	85 days	Tue 7/24/07	Mon 10/22/07
74	2.16.1 Impact Analysis Report Approval	1 day	Mon 11/26/07	Mon 11/26/07
75	2.17 Draft Regulatory Framework Report	55 days	Mon 4/2/07	Fri 6/15/07
76	2.17.1 Regulatory Framework Approval	1 day	Mon 7/30/07	Mon 7/30/07
77	Phase 3	165 days	Wed 8/15/07	Tue 4/1/08
78	3.1 Presentation to Advisory Committee	30 days	Mon 12/3/07	Fri 1/11/08
79	3.2.1 Draft Strategic Plan	110 days	Wed 8/15/07	Tue 1/15/08
80	3.2.2 Strategic Plan	30 days	Wed 1/16/08	Tue 2/26/08
81	3.3 Public Meeting	20 days	Wed 1/2/08	Tue 1/29/08
82	3.4 Advisory Committee Review & Approval	1 day	Wed 2/27/08	Wed 2/27/08
83	3.5 Finalize Strategic Plan	24 days	Thu 2/28/08	Tue 4/1/08

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Modeling

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- Updating model for NH/MA demographics
- Compare Nashua ridership based on data changes
- Completion of model updates by January 2007

Transit Ridership

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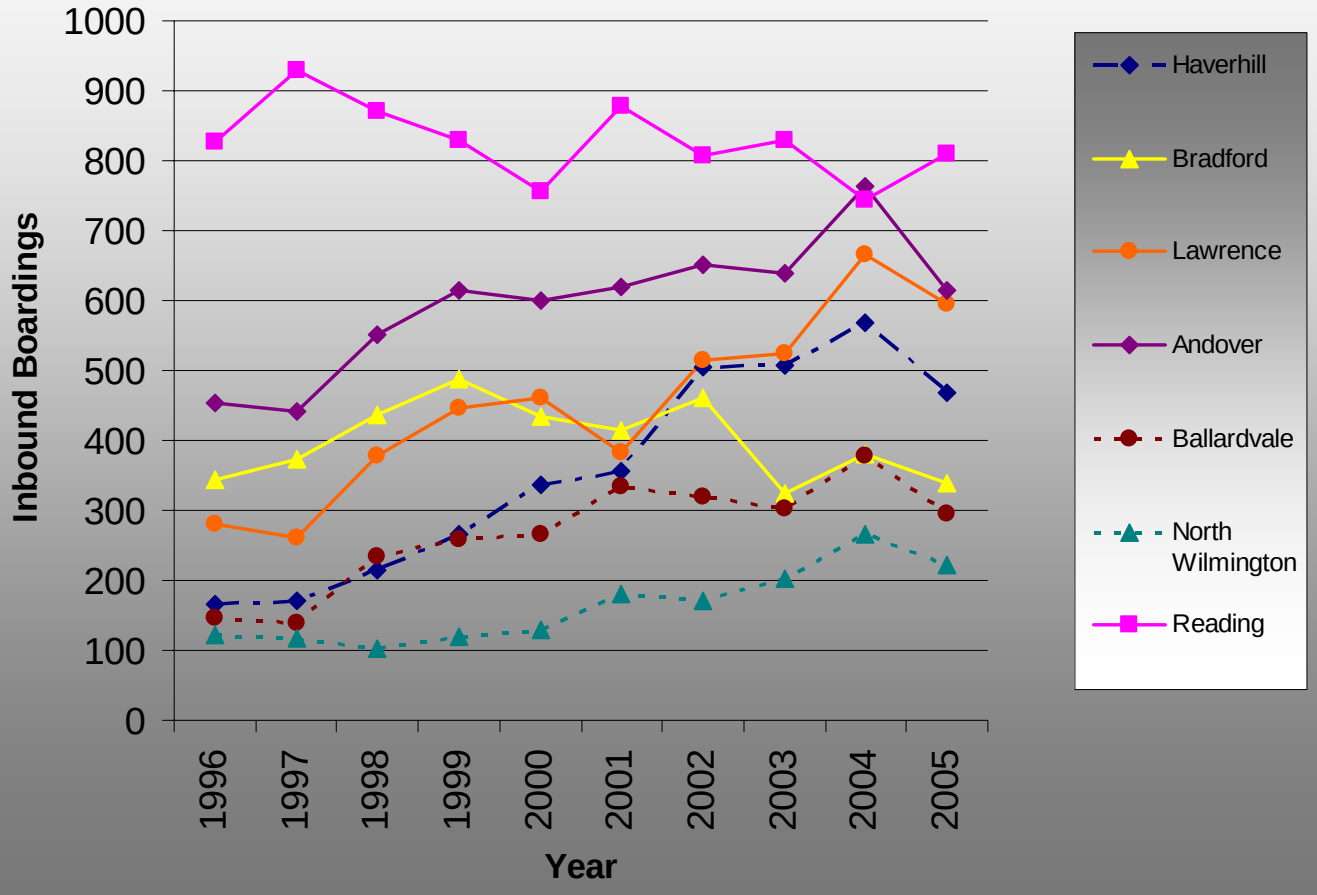

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Transit Ridership

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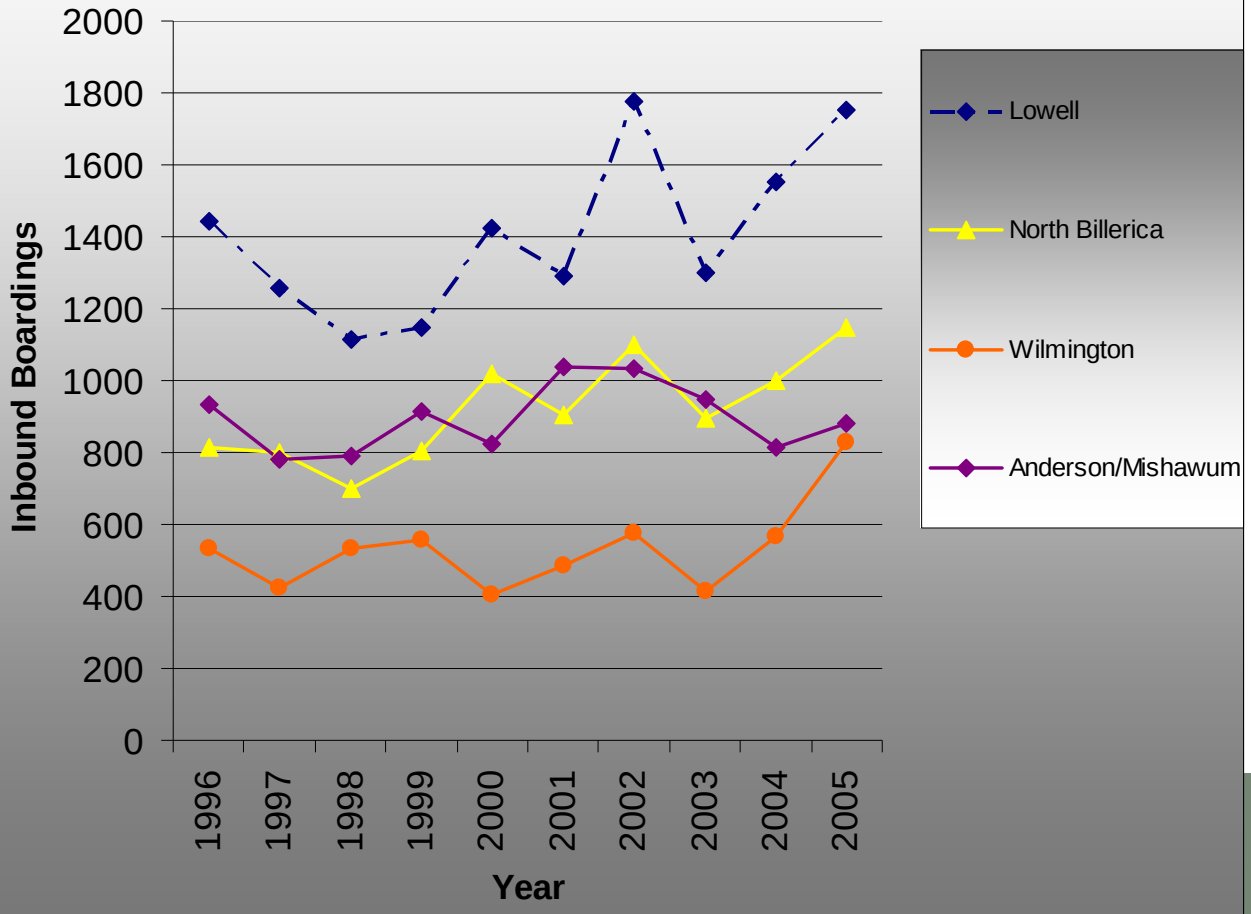

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Transit Ridership

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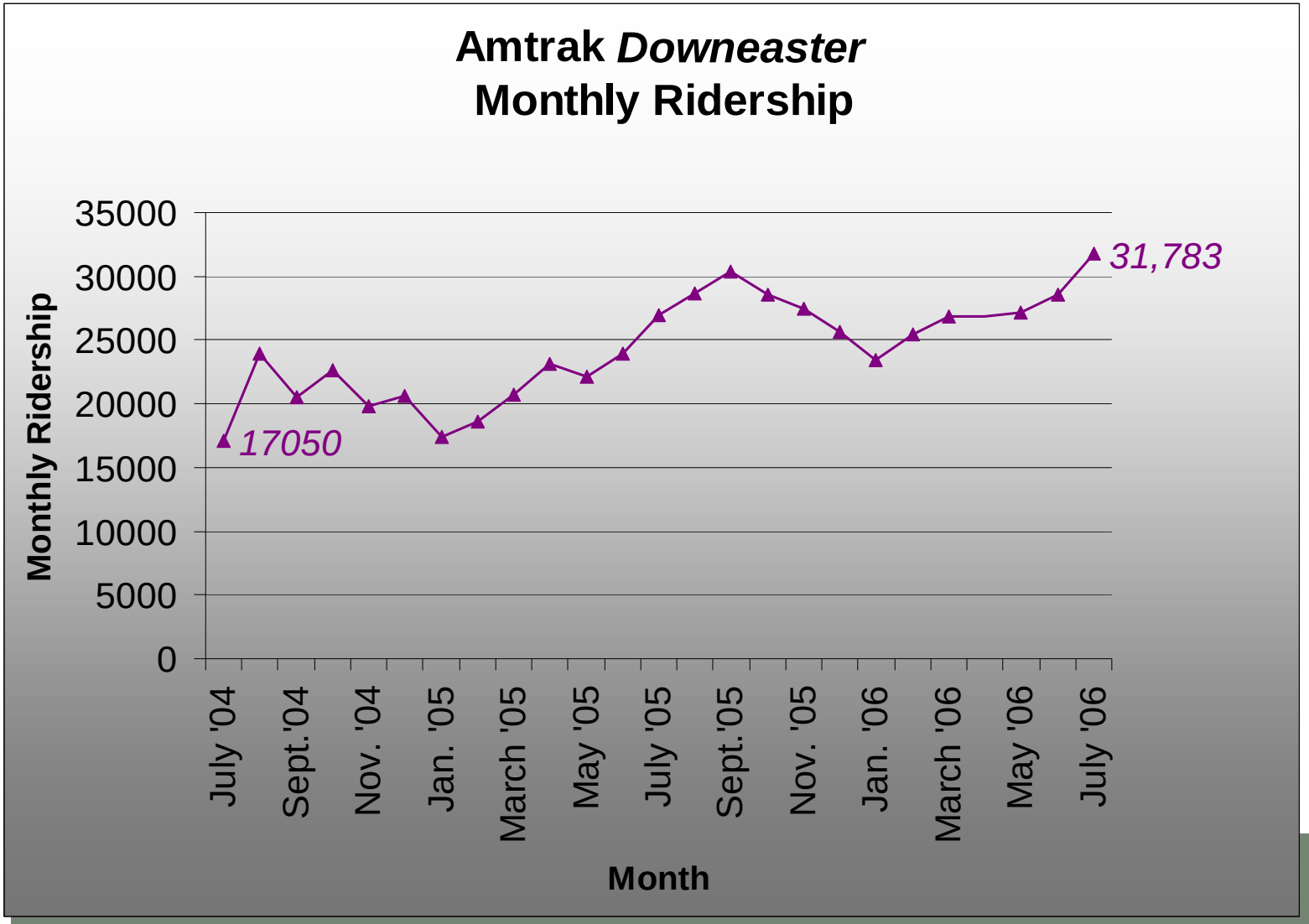

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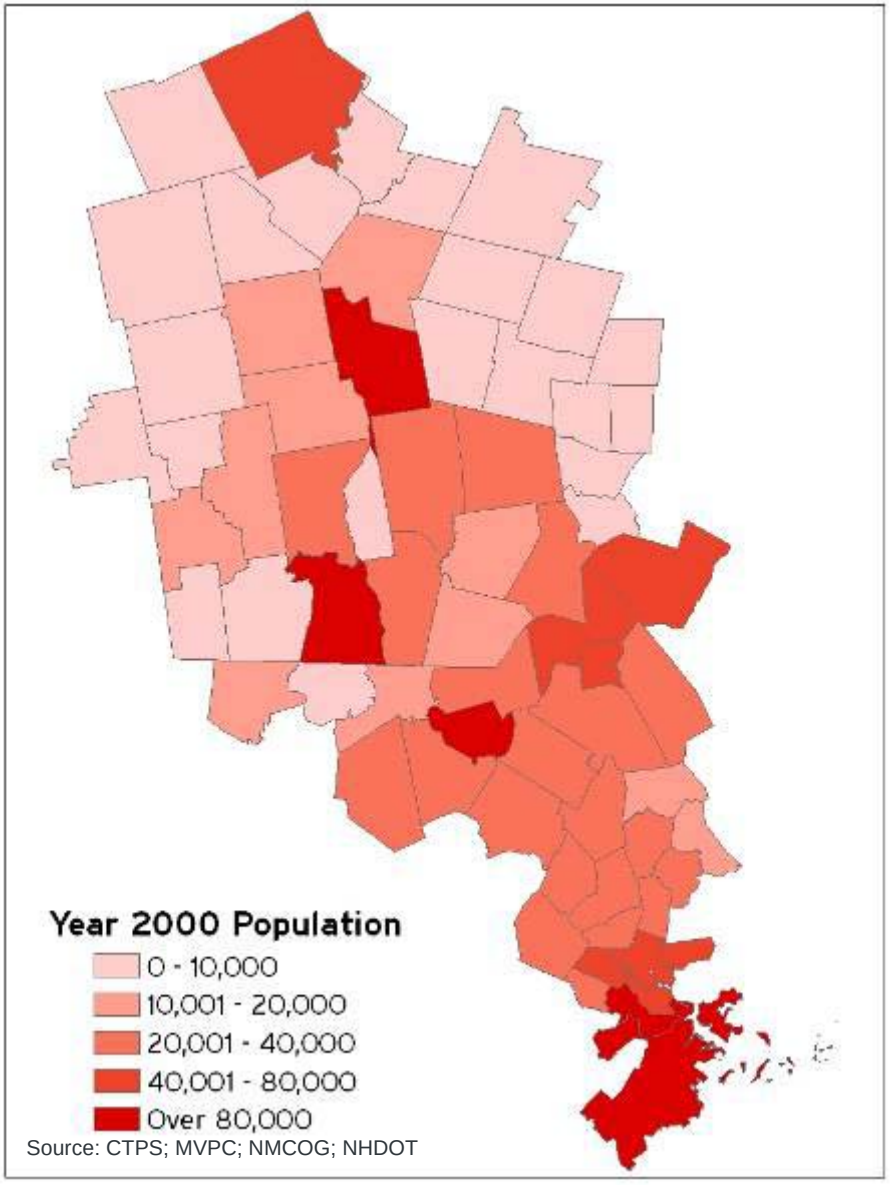
Year 2000 Population



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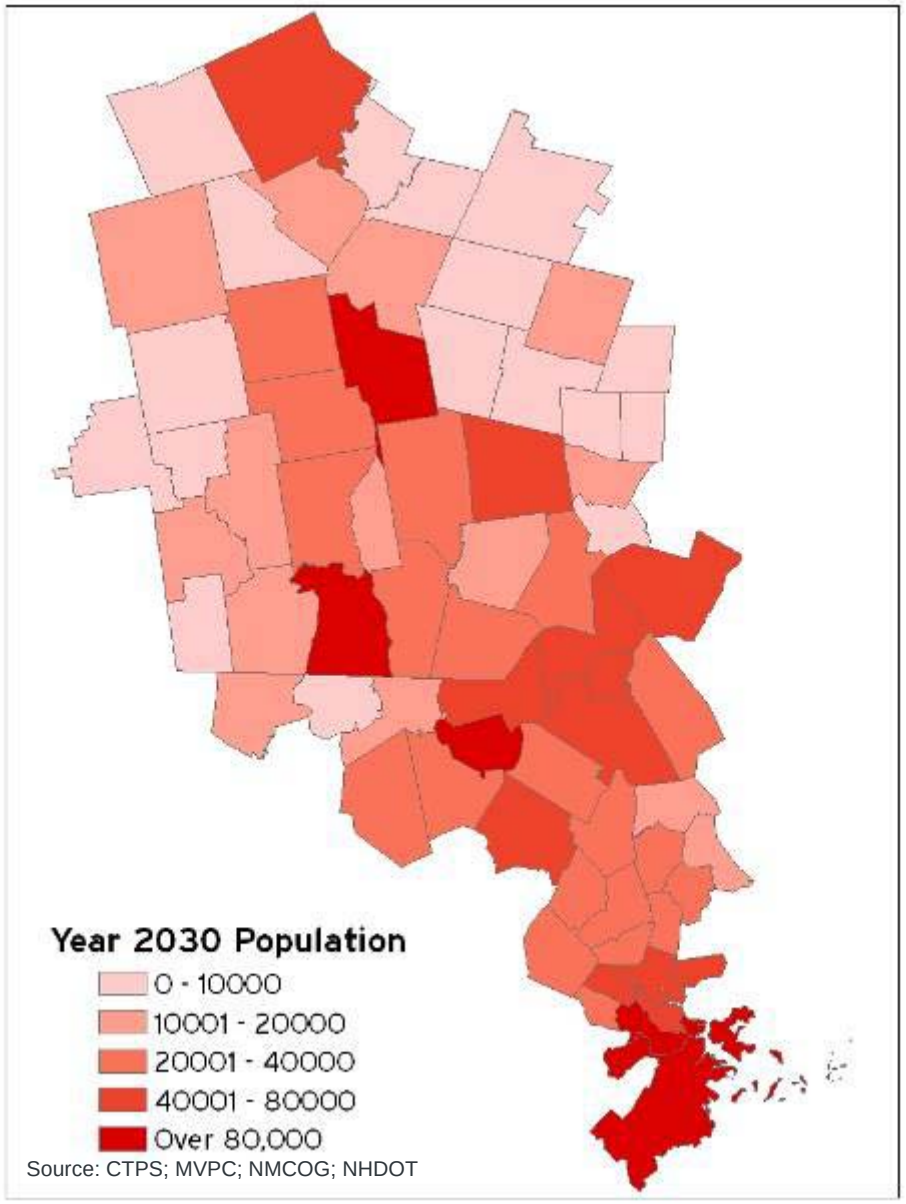
Projected Year 2030 Population



Source: CTPS; MVPC; NMCOG; NHDOT

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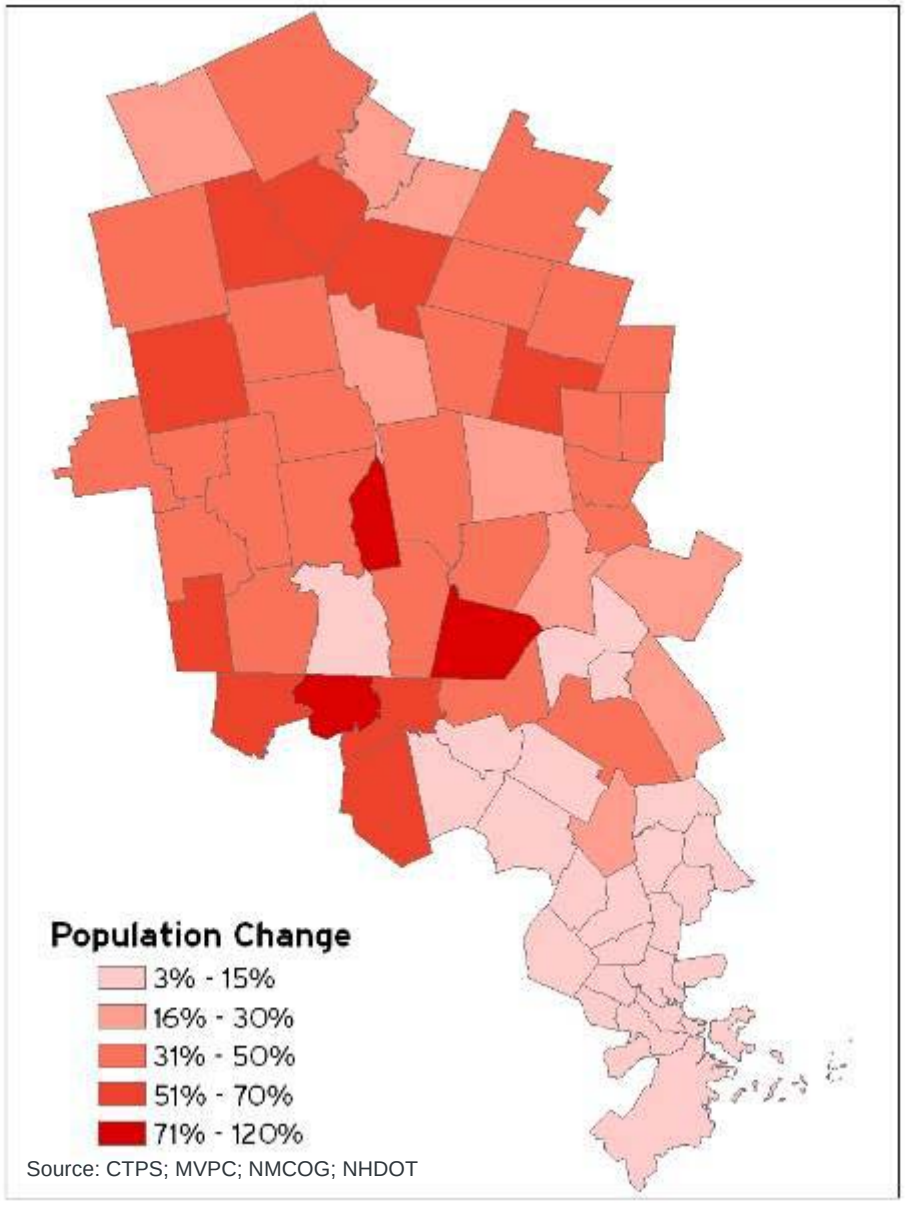
Projected Population Change (2000-2030) DRAFT



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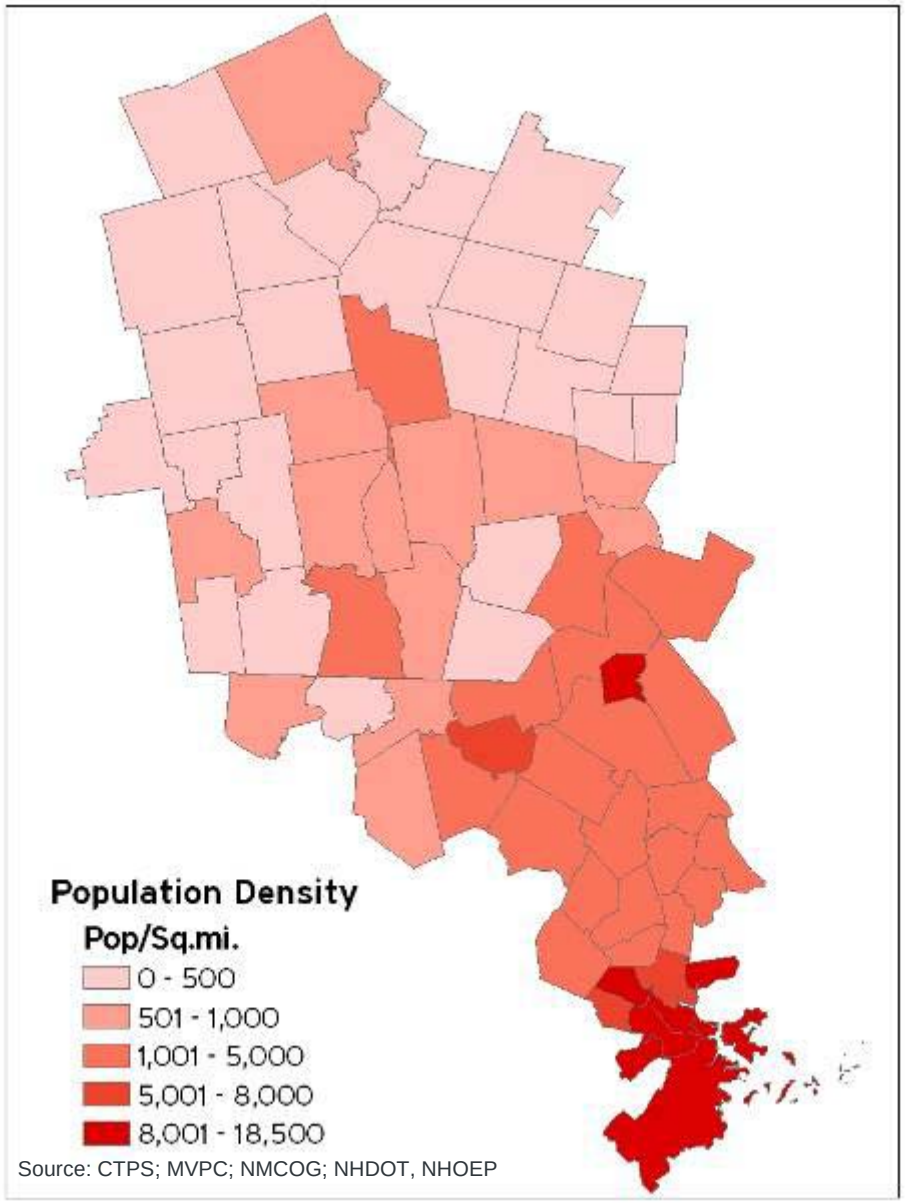
Population Density (2004-2005)



Source: CTPS; MVPC; NMCOG; NHDOT, NHOEP

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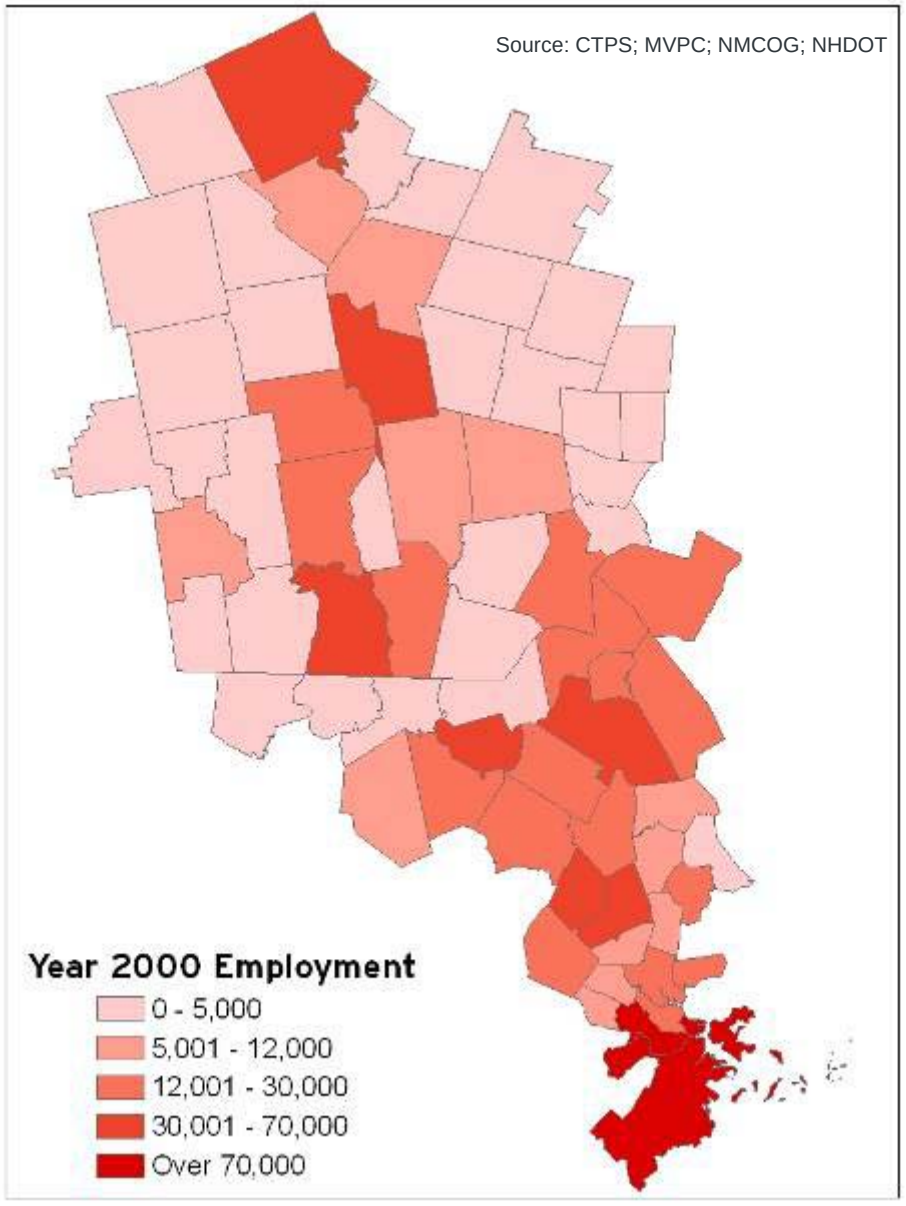
Year 2000 Employment



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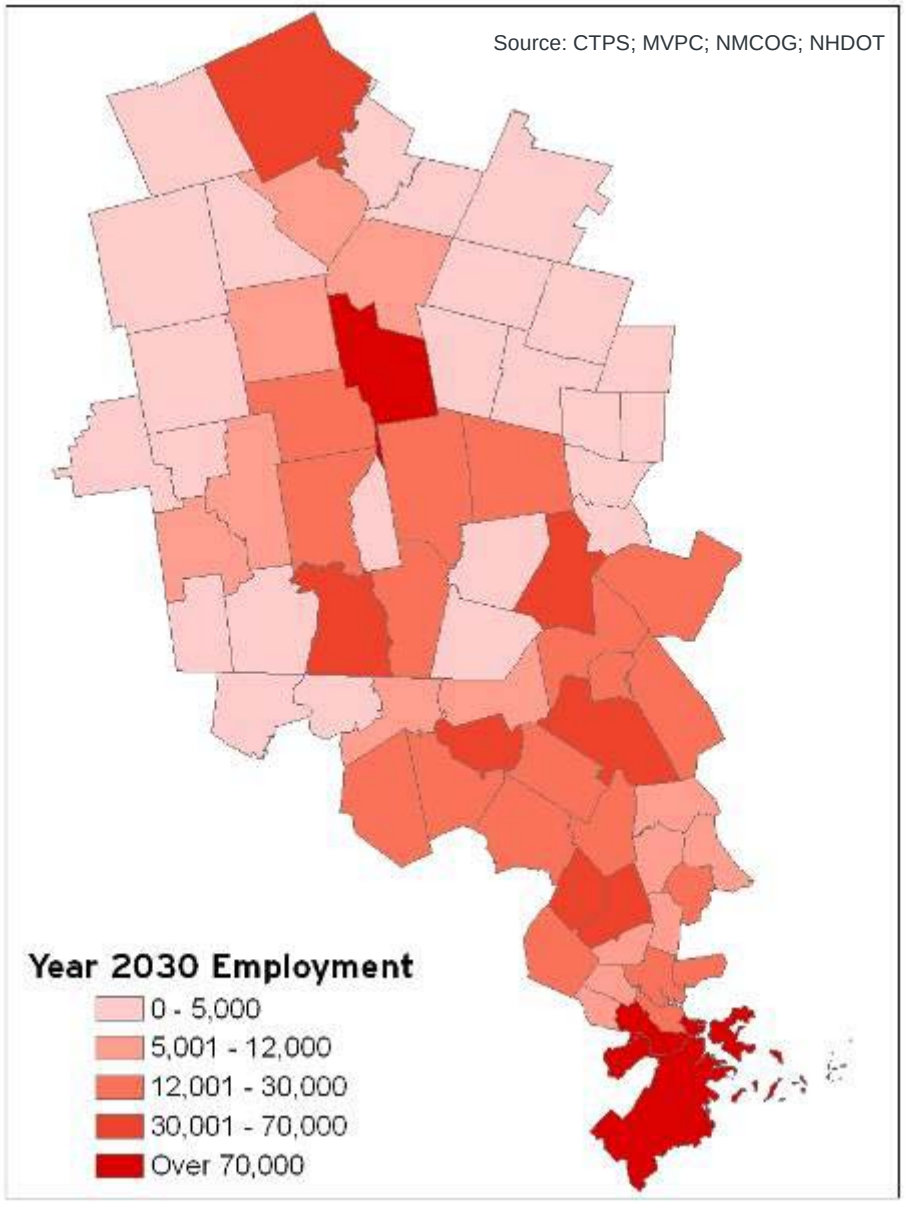
Projected Year 2030 Employment



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Projected Employment Change (2000–2030)

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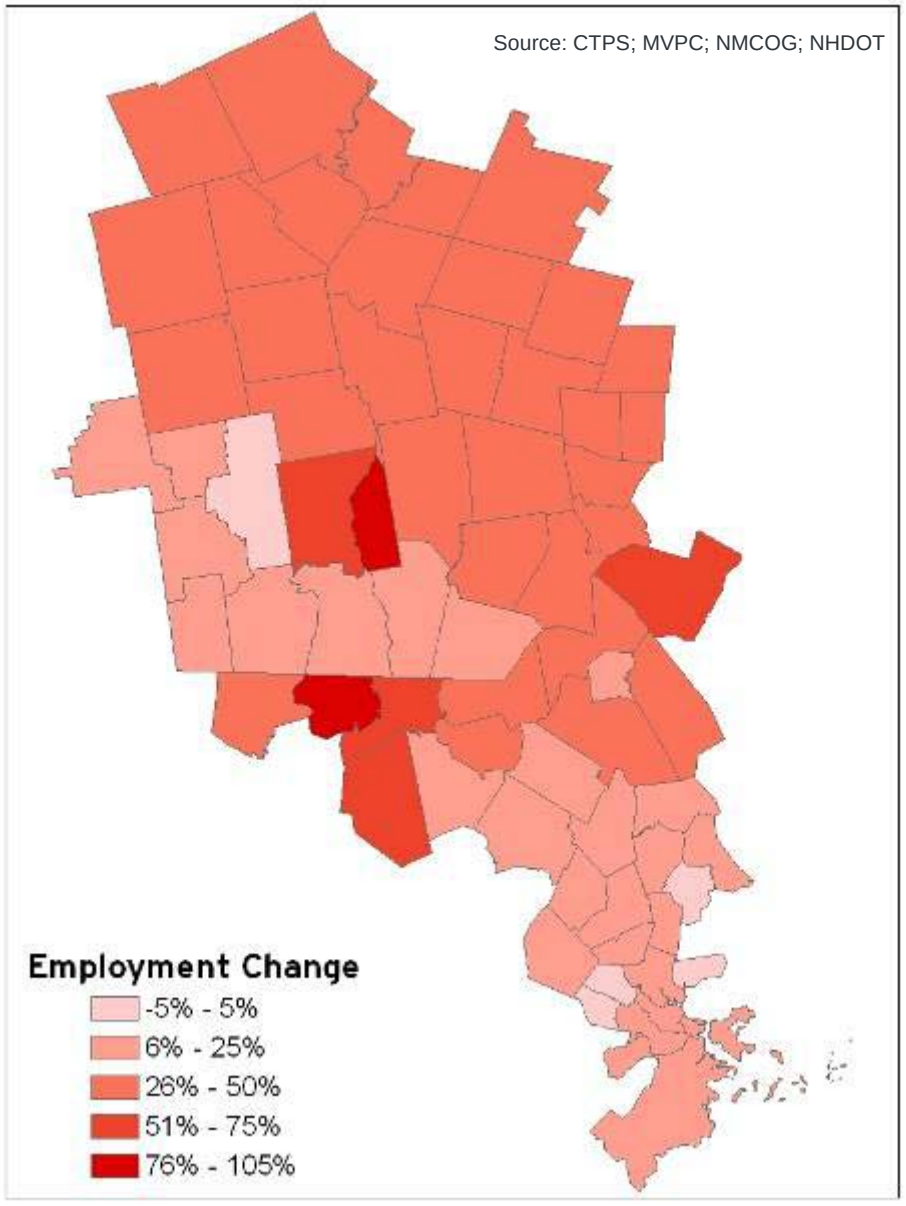

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Lowell to Concord

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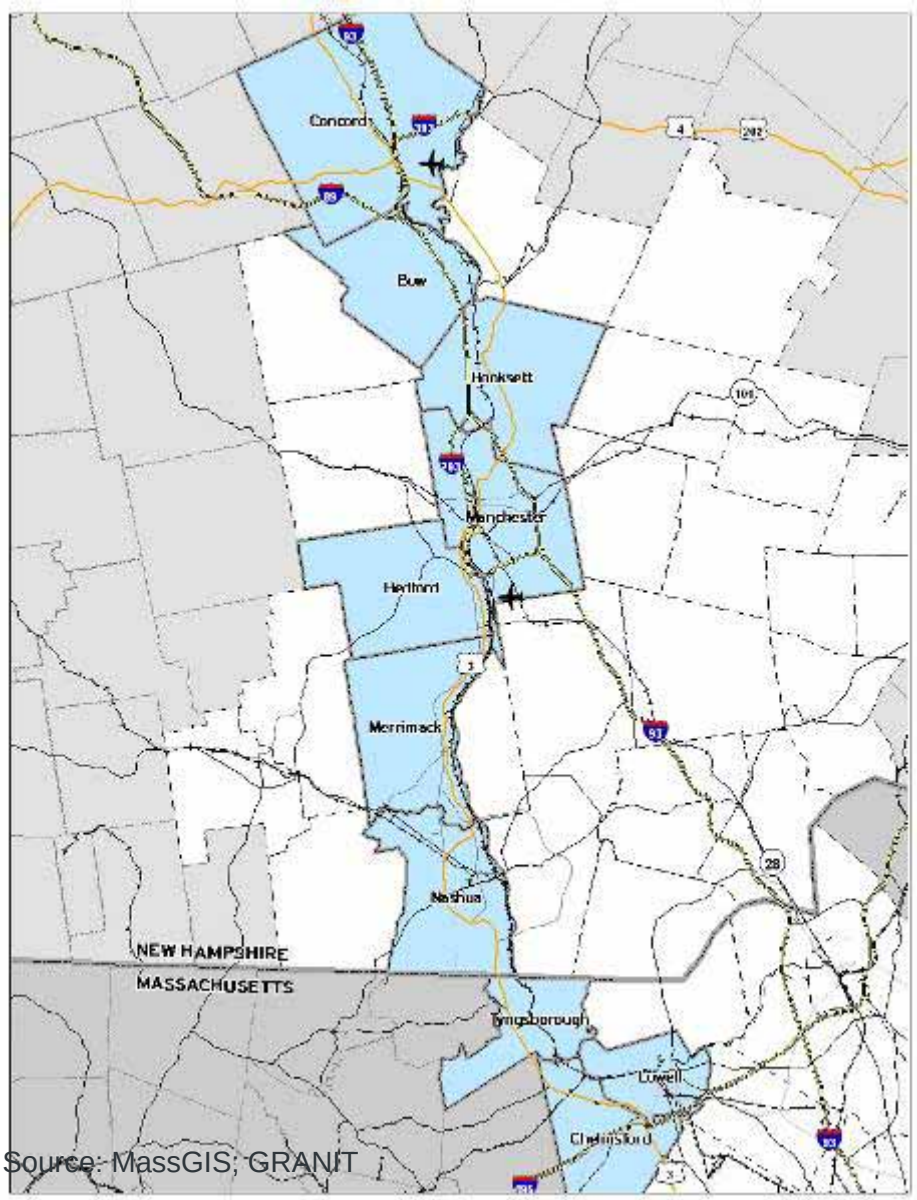

Source: MassGIS; GRANIT

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Lowell Zoning

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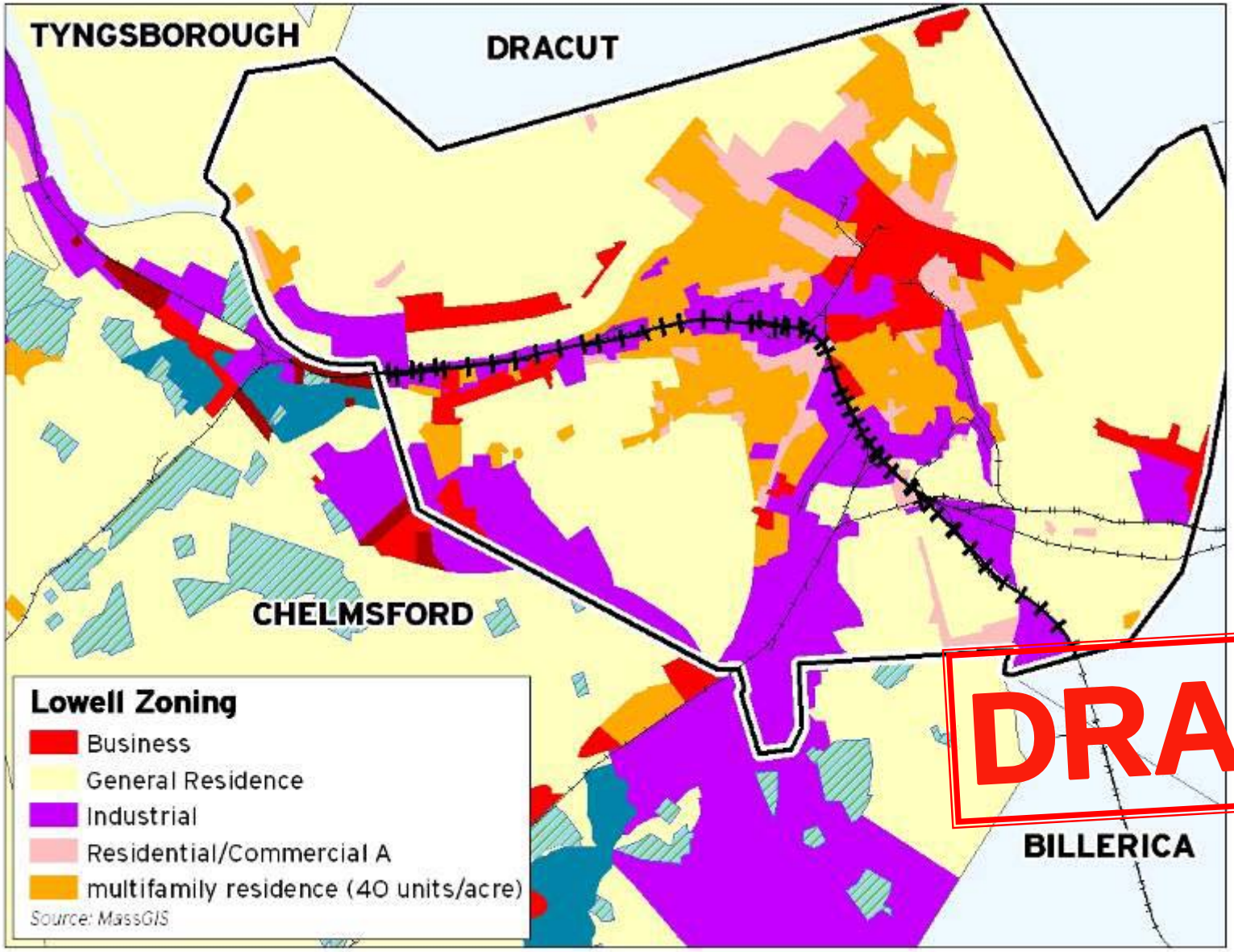

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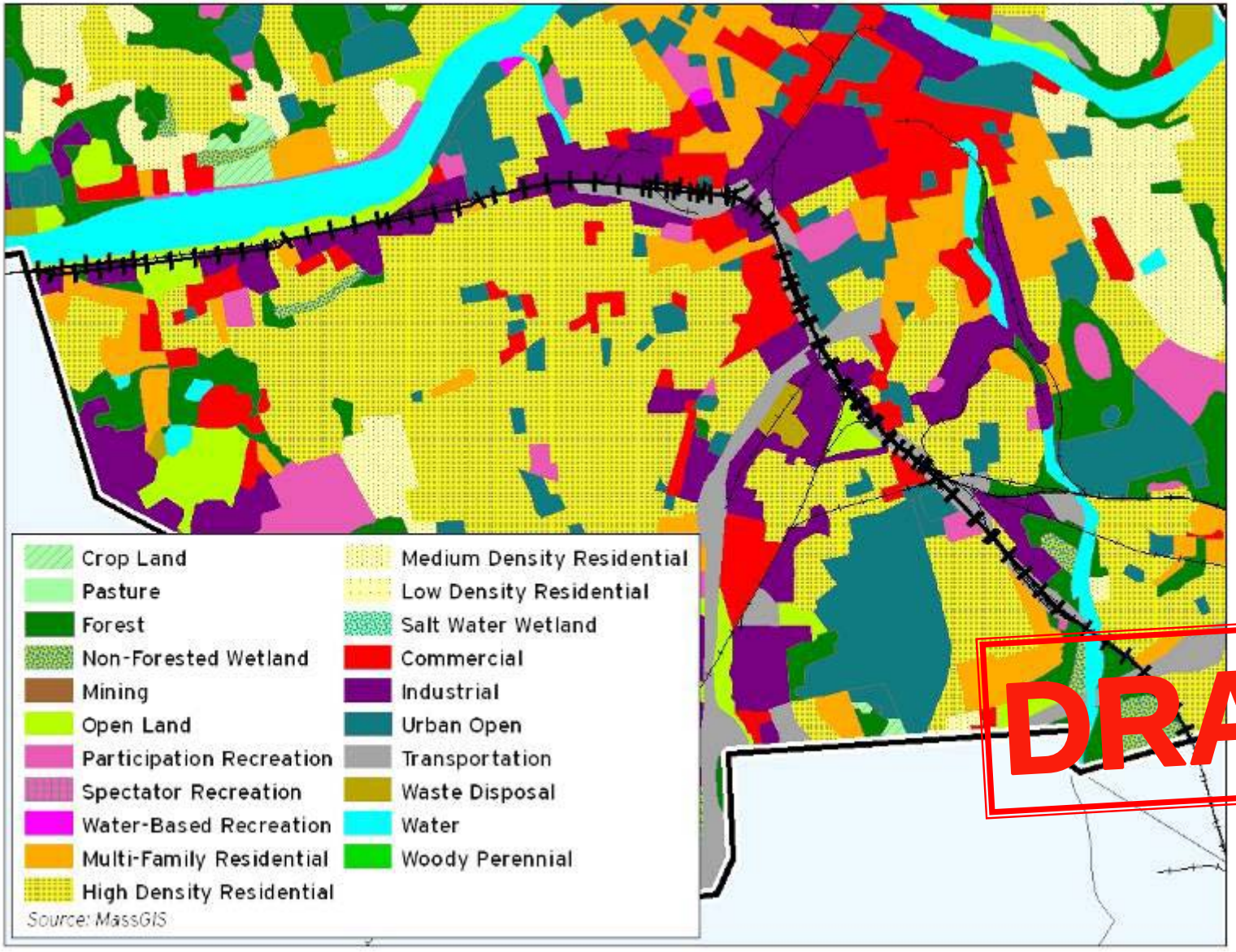
Lowell Land Use



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Chelmsford Zoning

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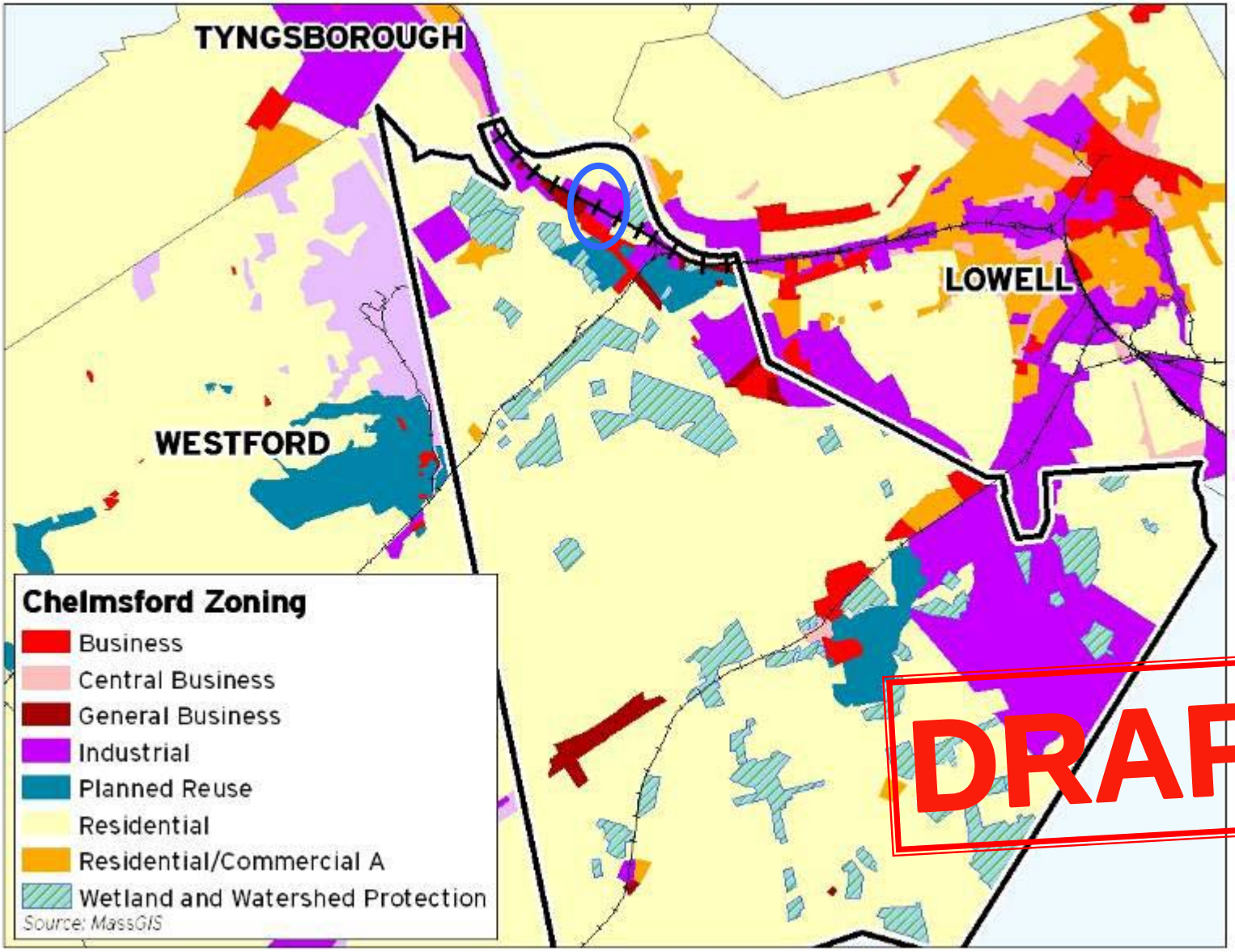

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Chelmsford Land Use

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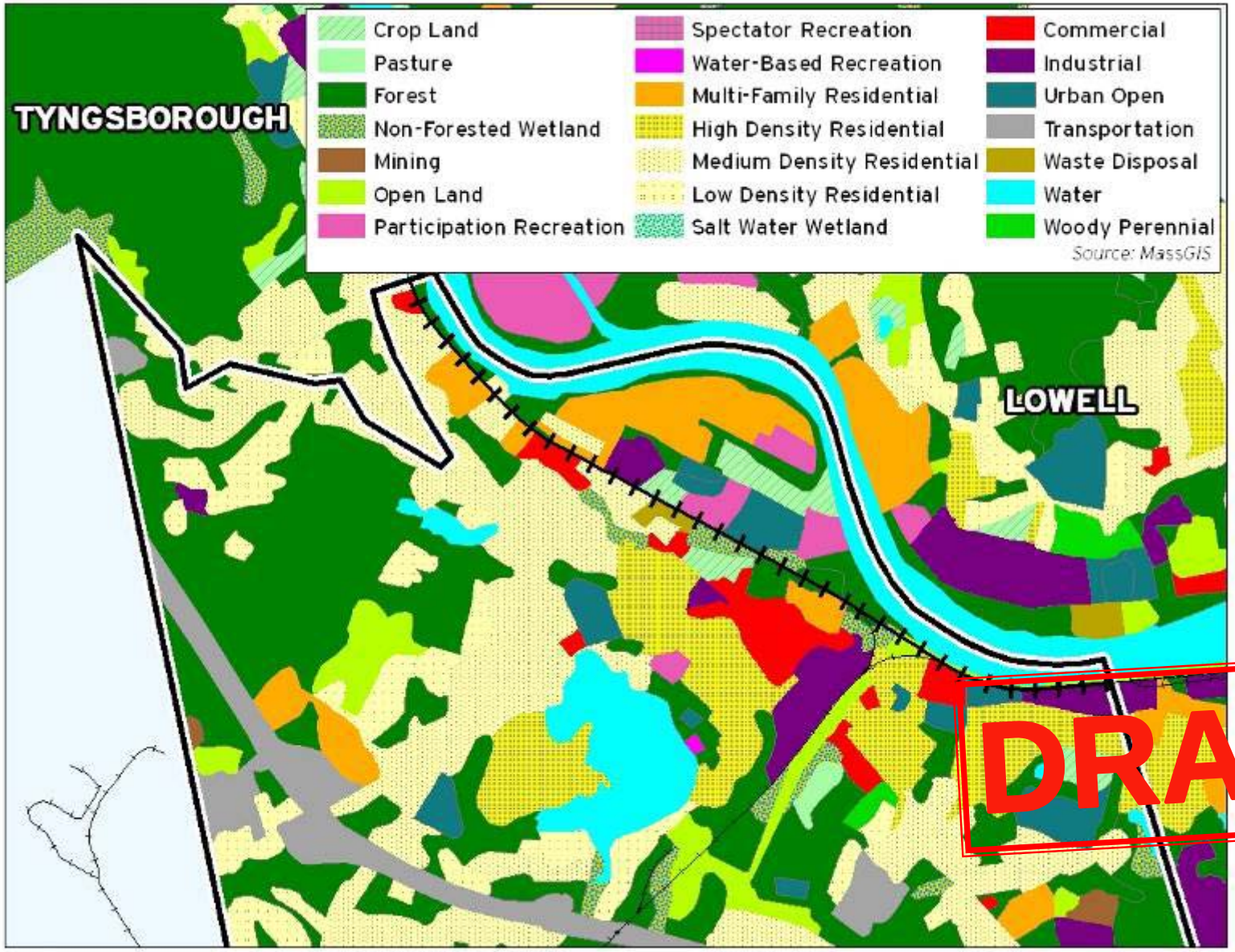

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Tyngsborough Zoning

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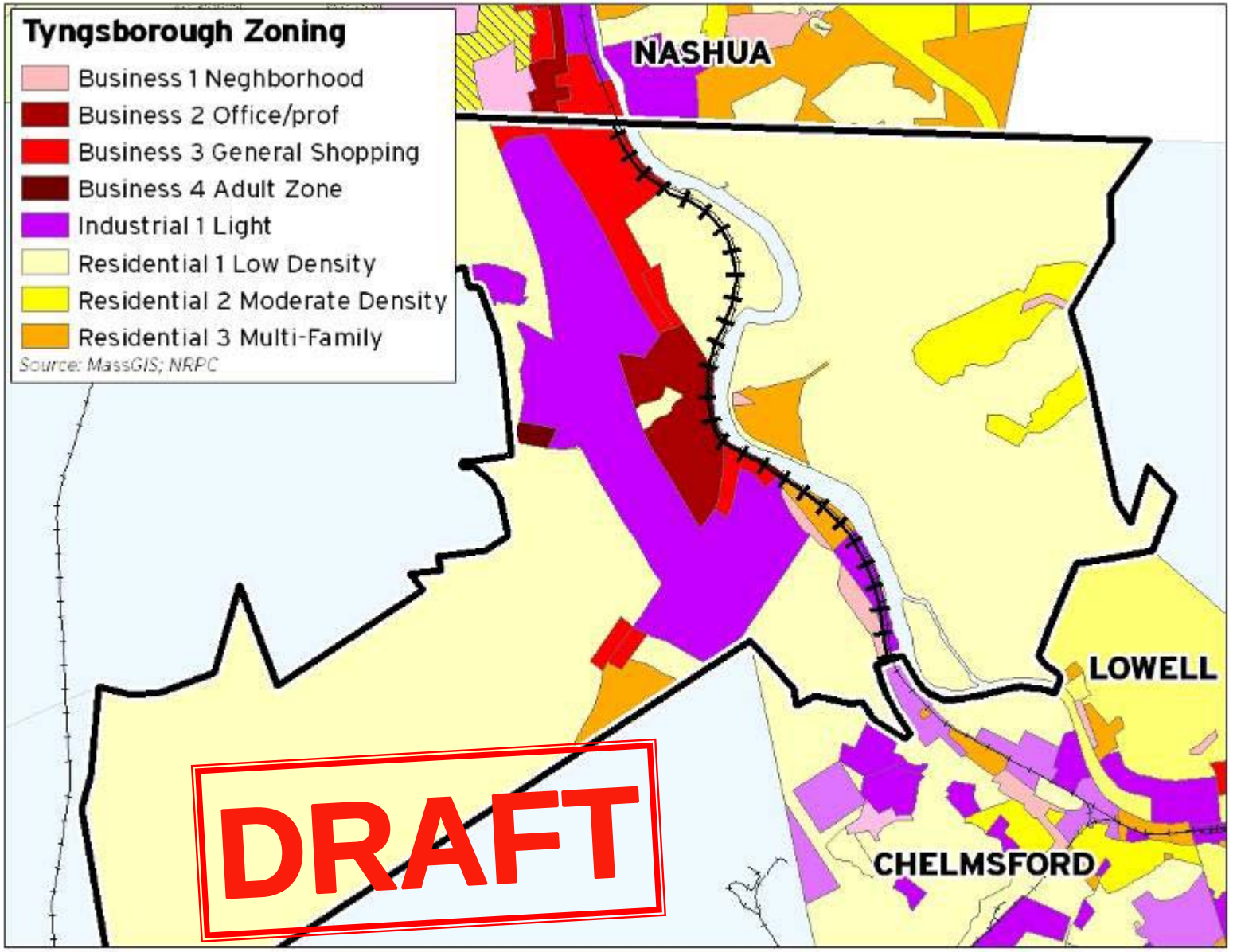

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Tyngsborough Land Use

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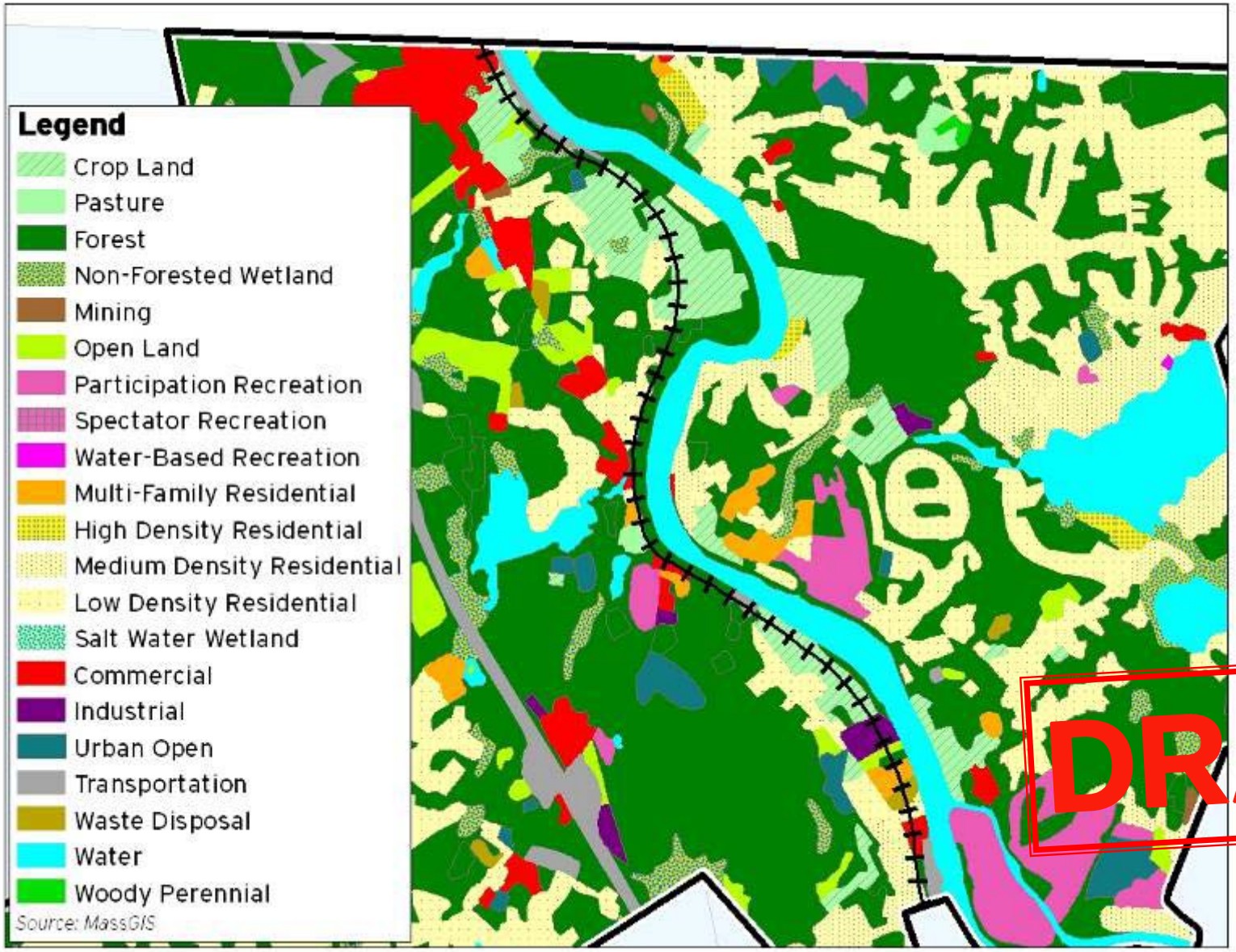

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Nashua Zoning

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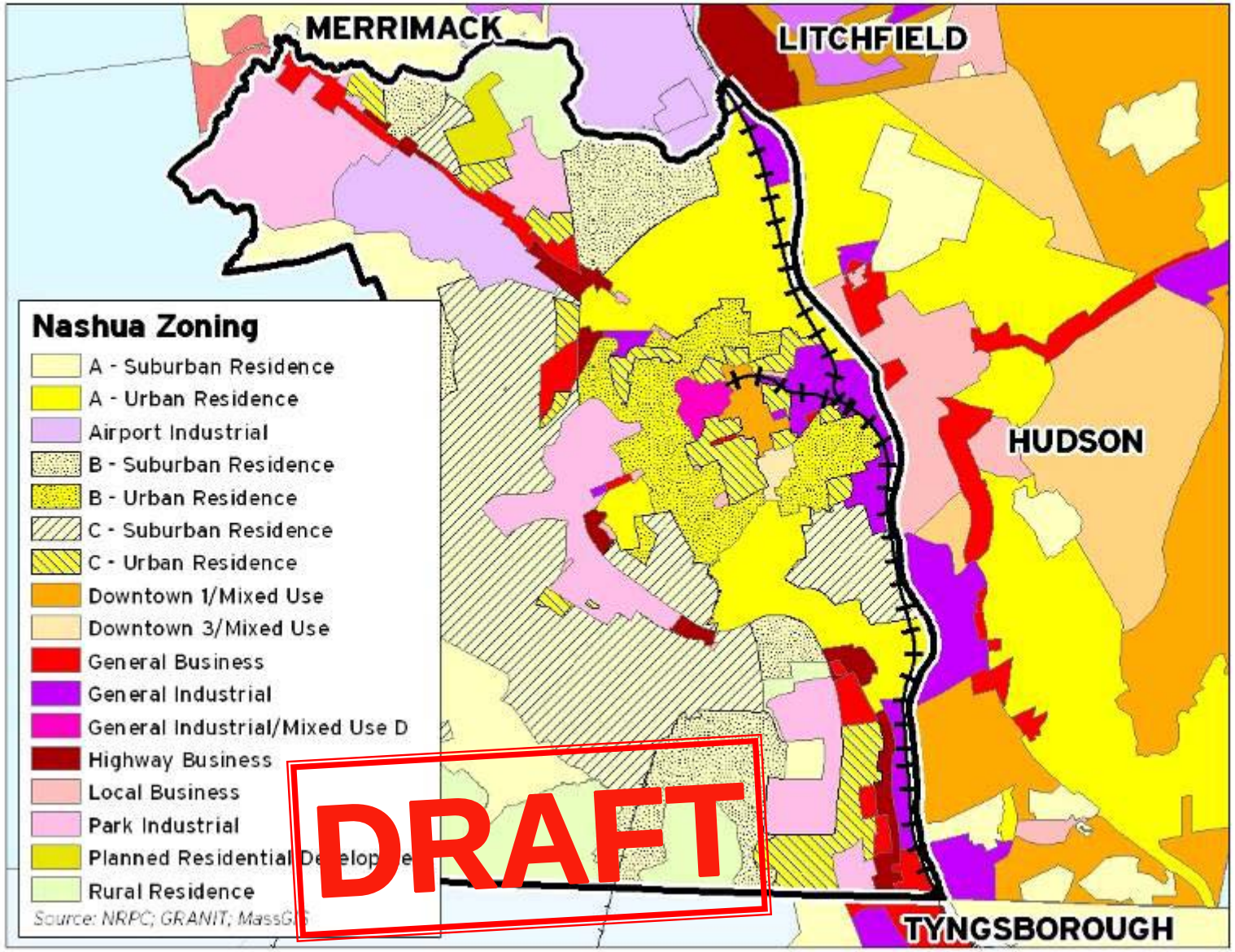

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Nashua Land Use

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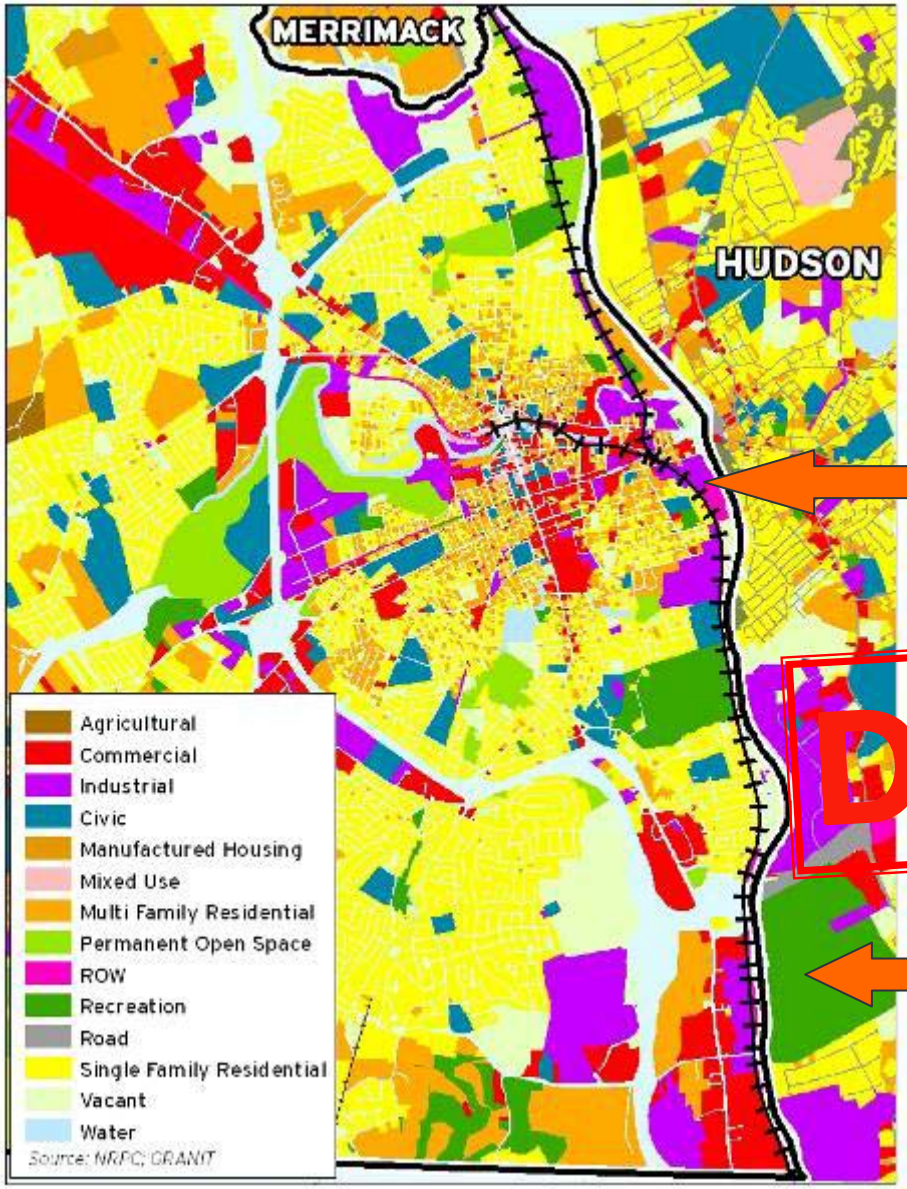

Potential Commuter Rail Site

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New Retail

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Merrimack Zoning

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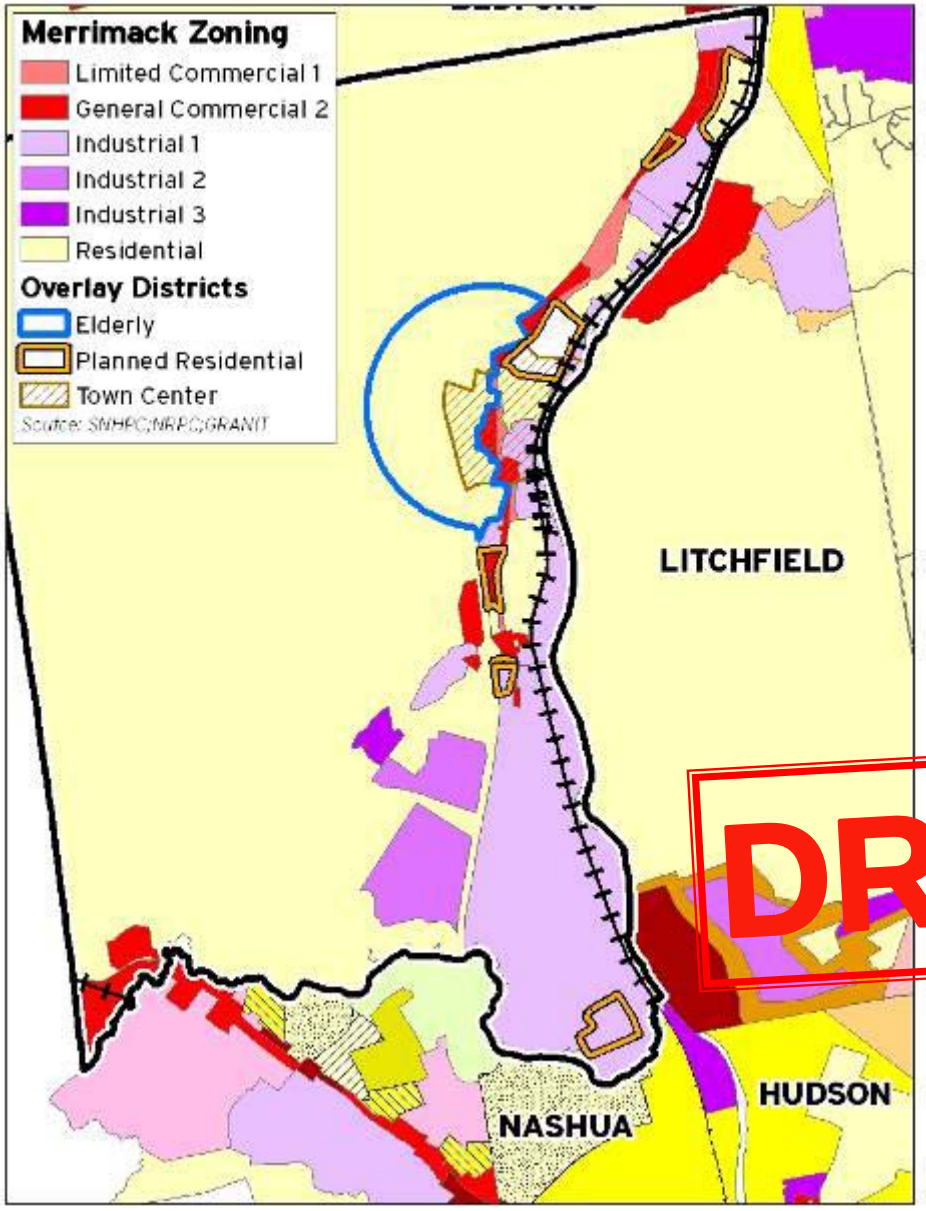

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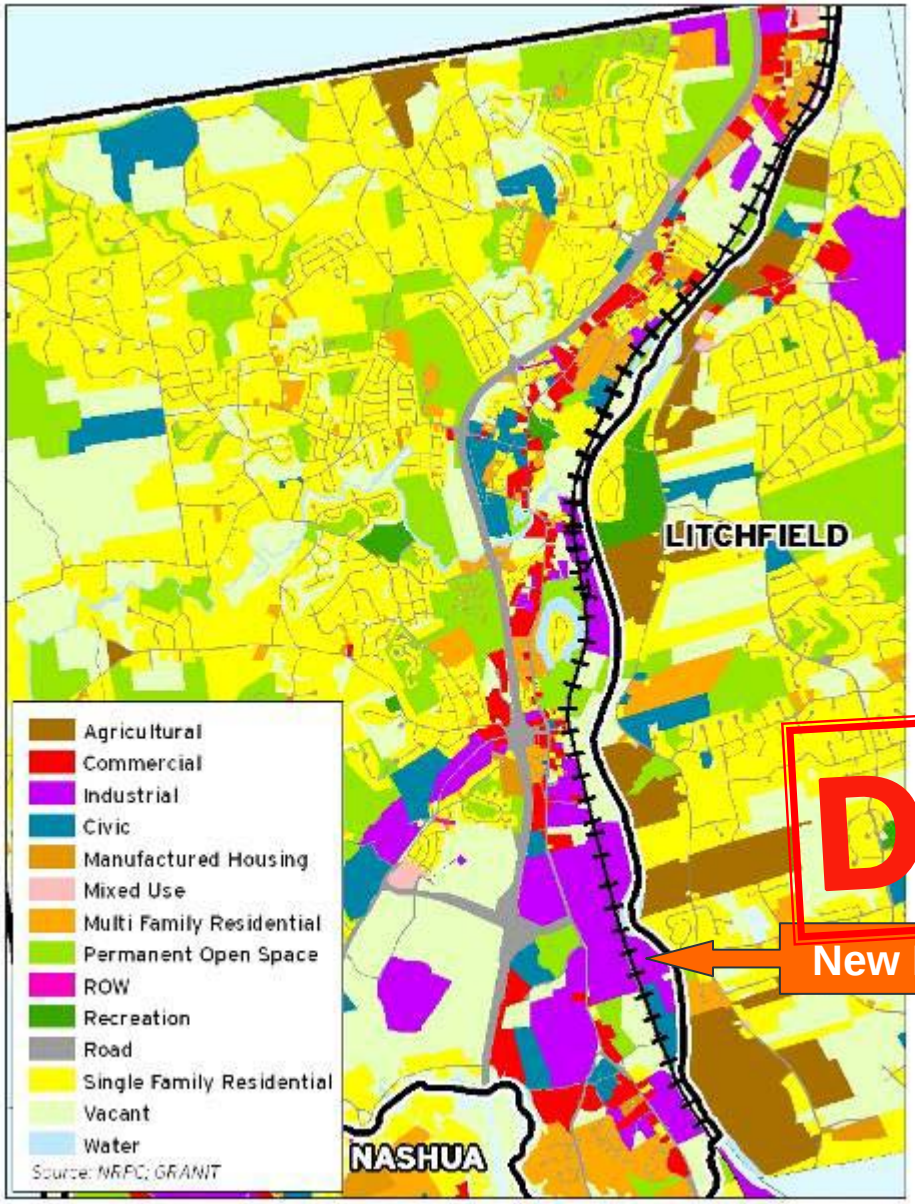
Merrimack Land Use



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New Retail

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Bedford Zoning

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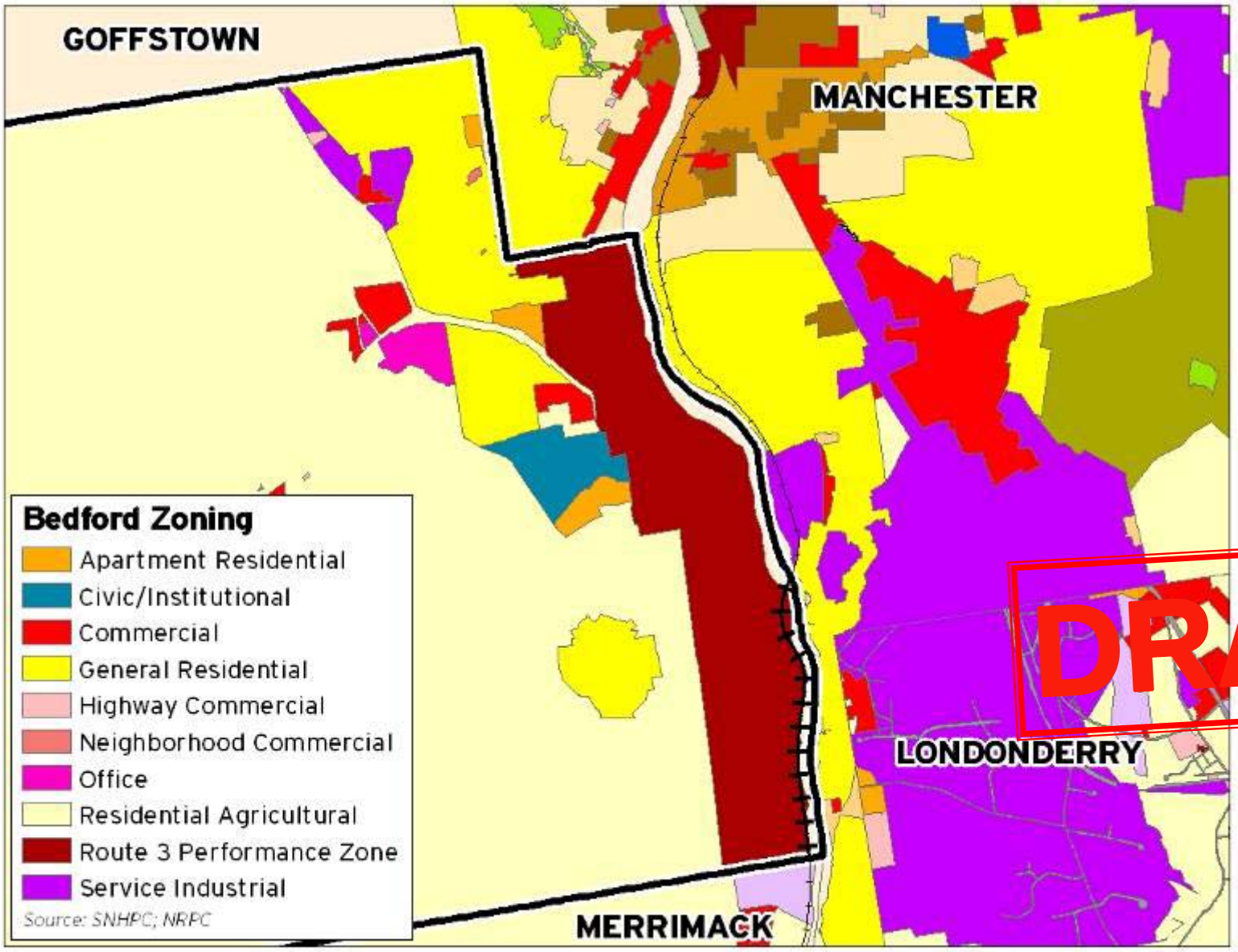

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Bedford Land Use

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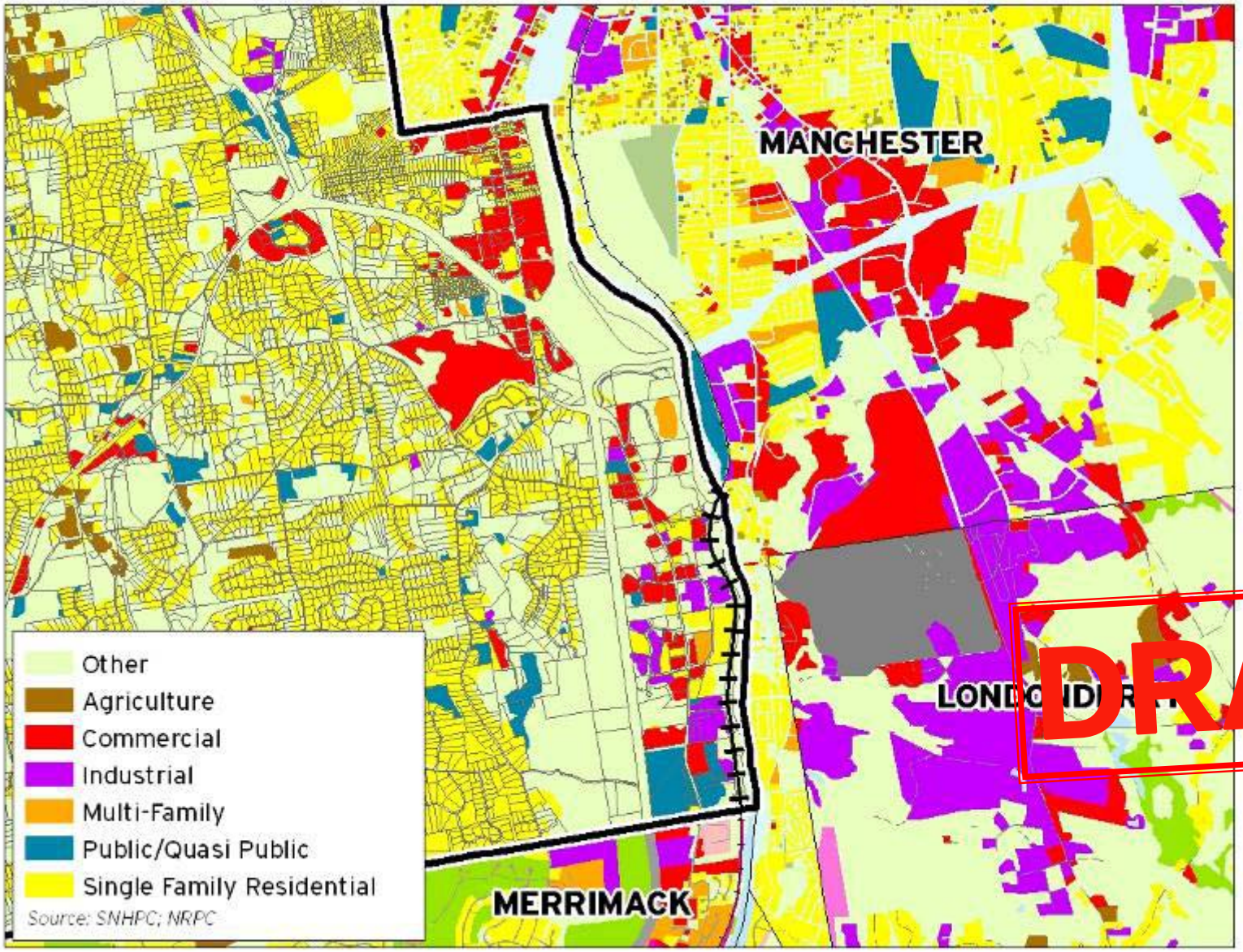

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Manchester Zoning

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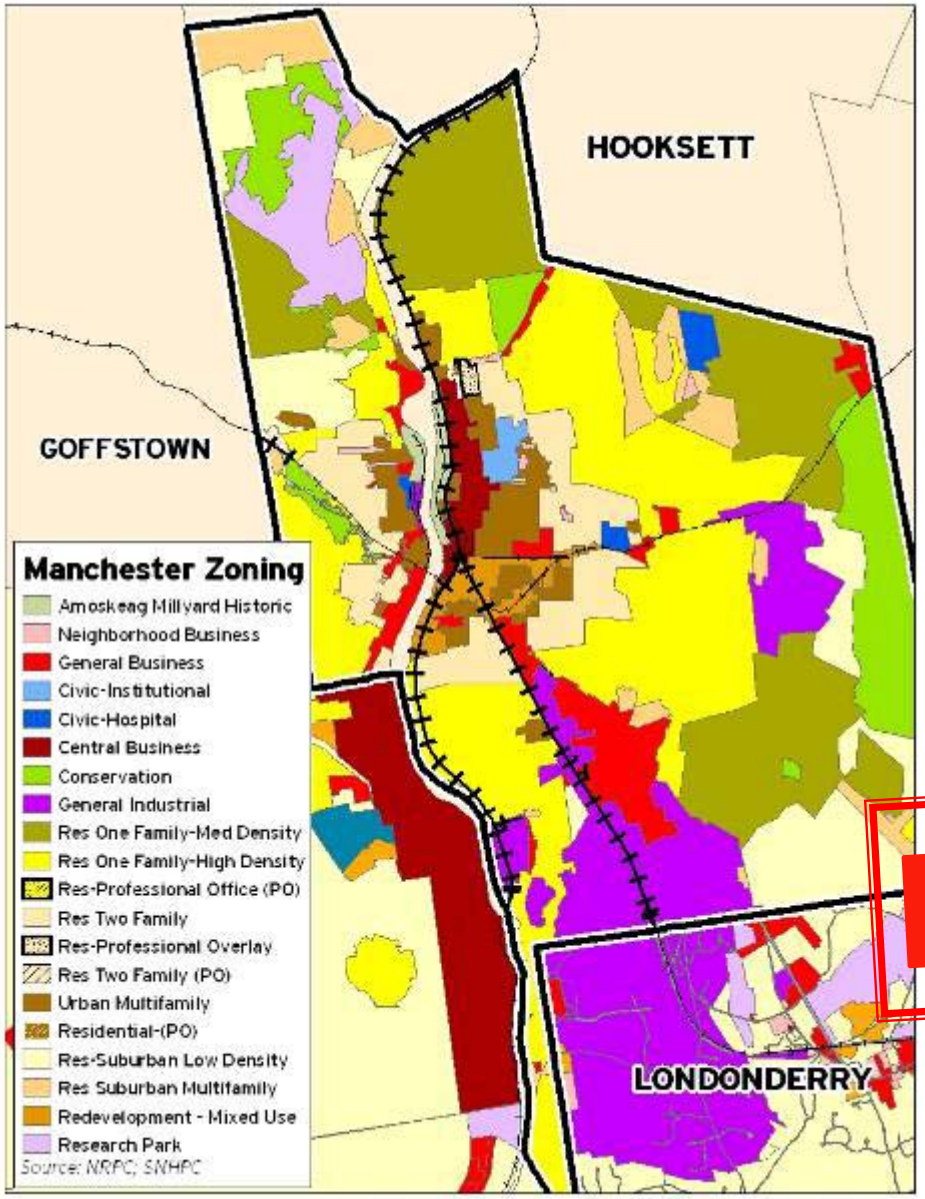

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Manchester Land Use

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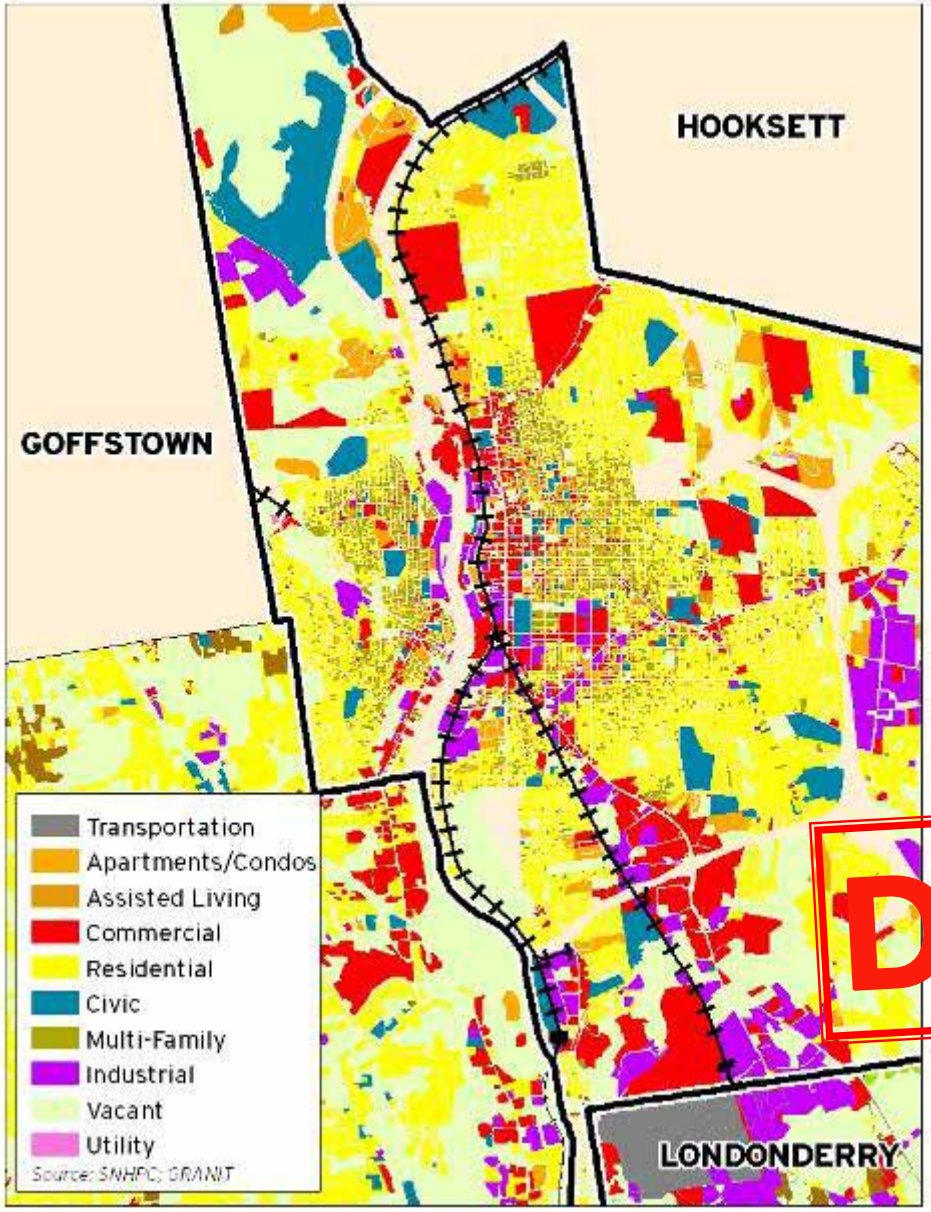

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Hooksett Zoning

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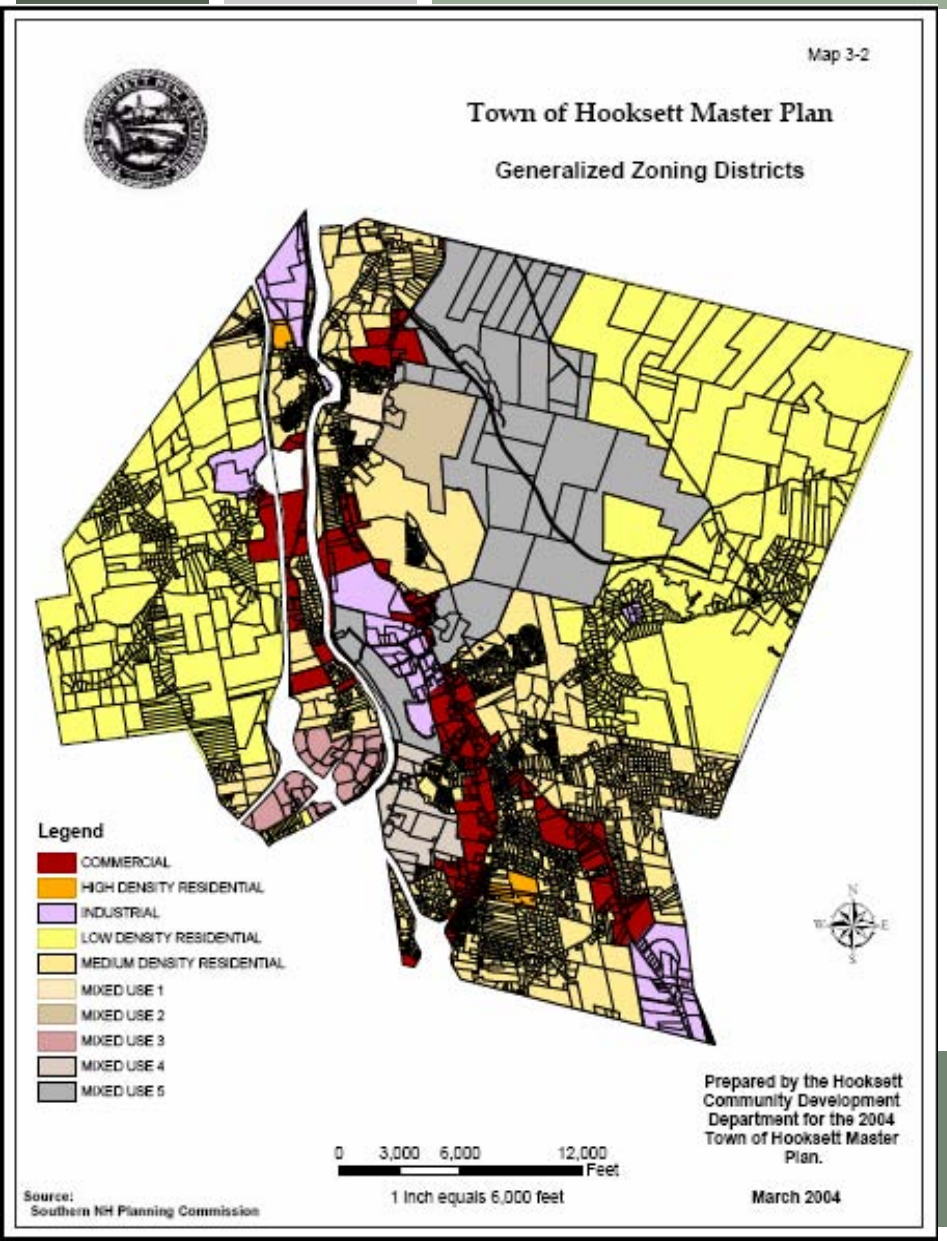

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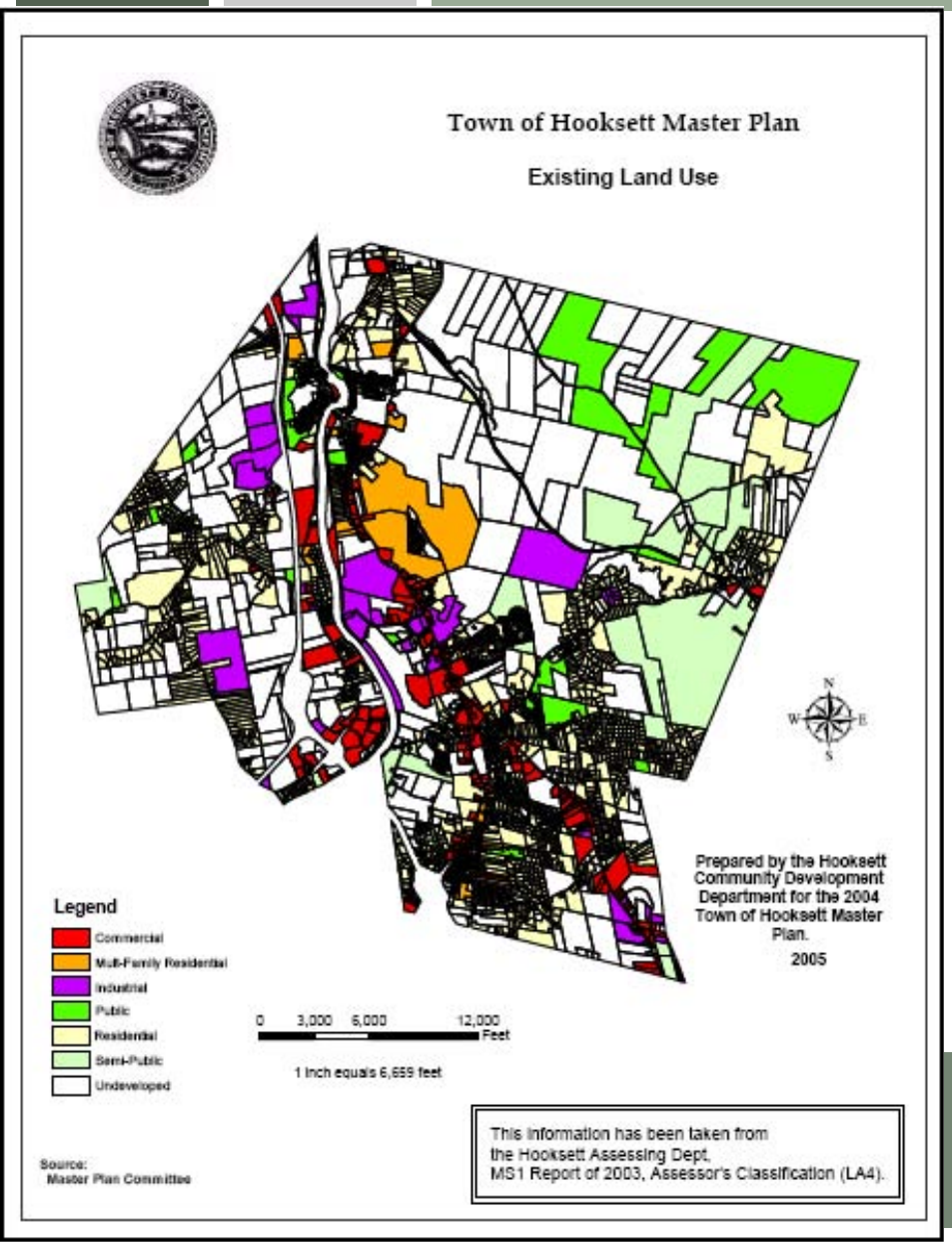
Hooksett Land Use



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Bow Zoning

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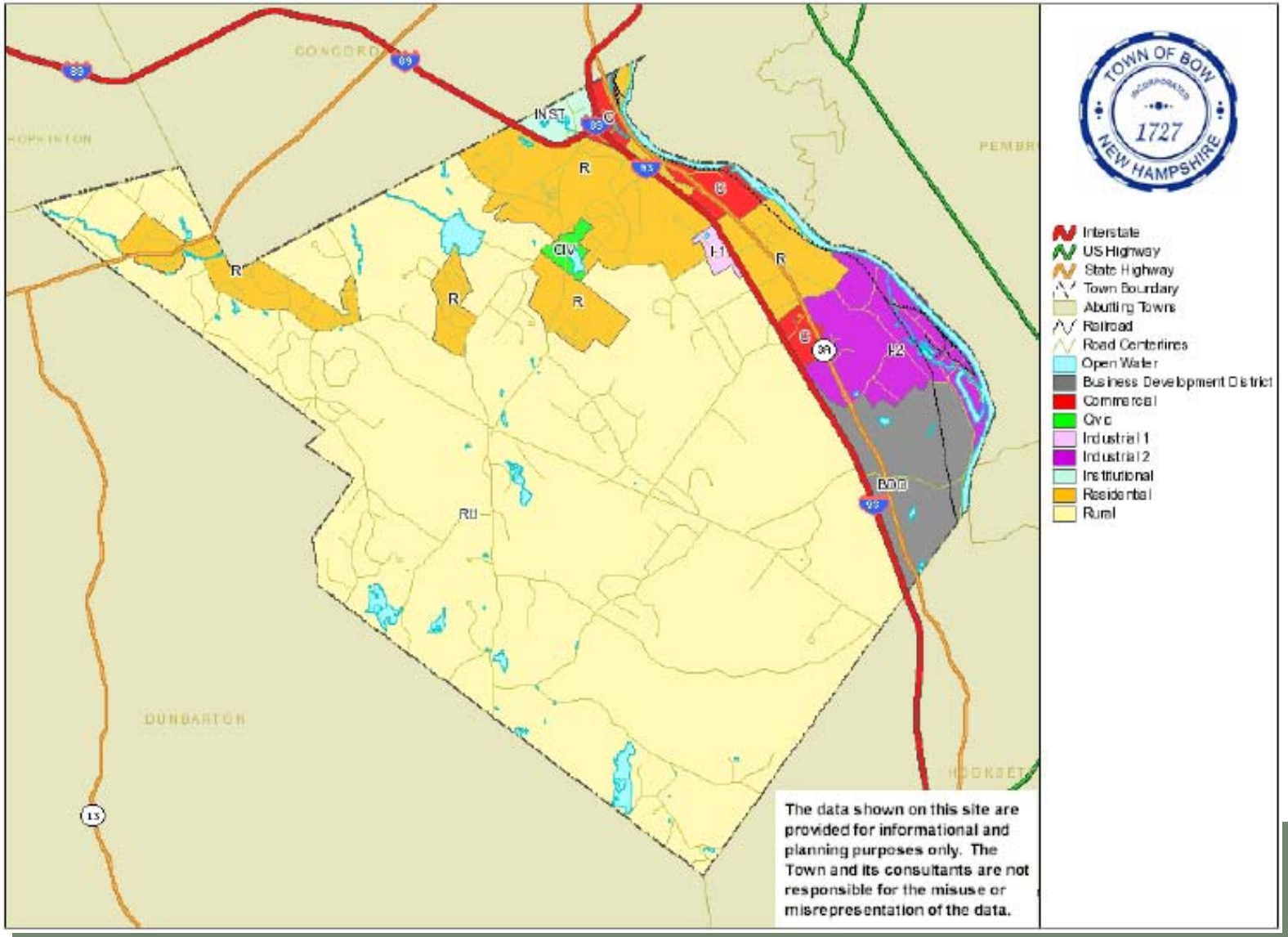

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Concord Zoning

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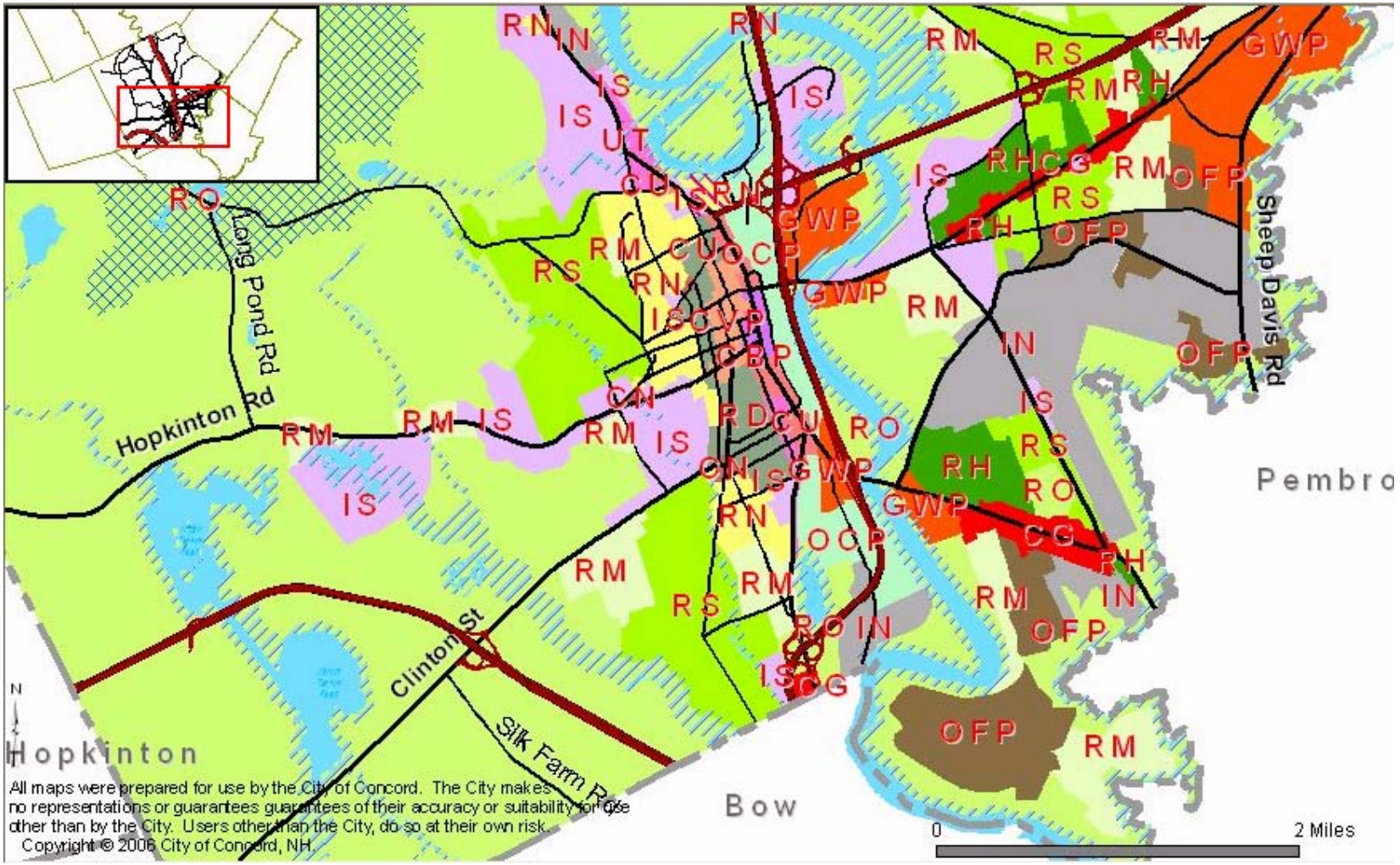

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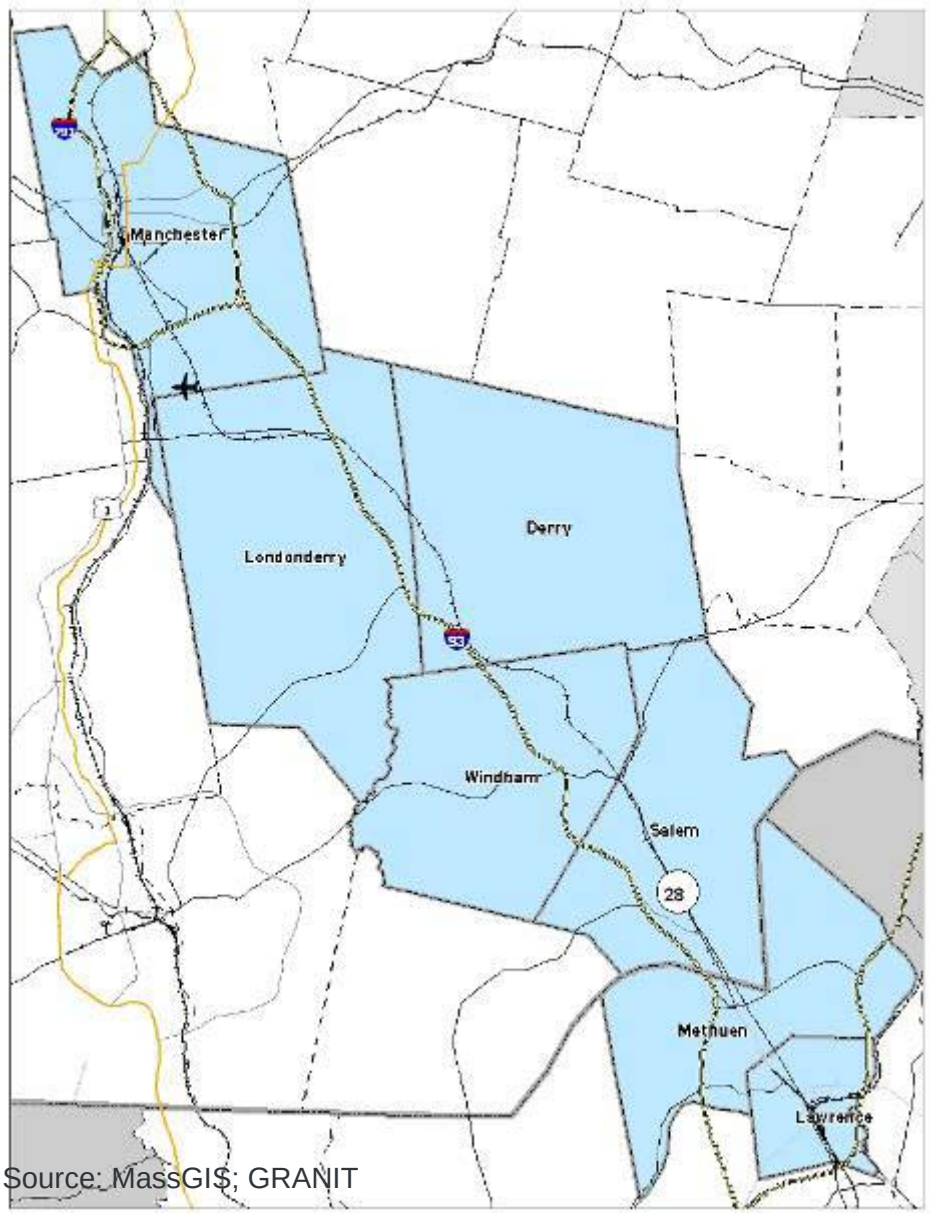
Lawrence to Manchester



Source: MassGIS; GRANIT

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Lawrence Zoning

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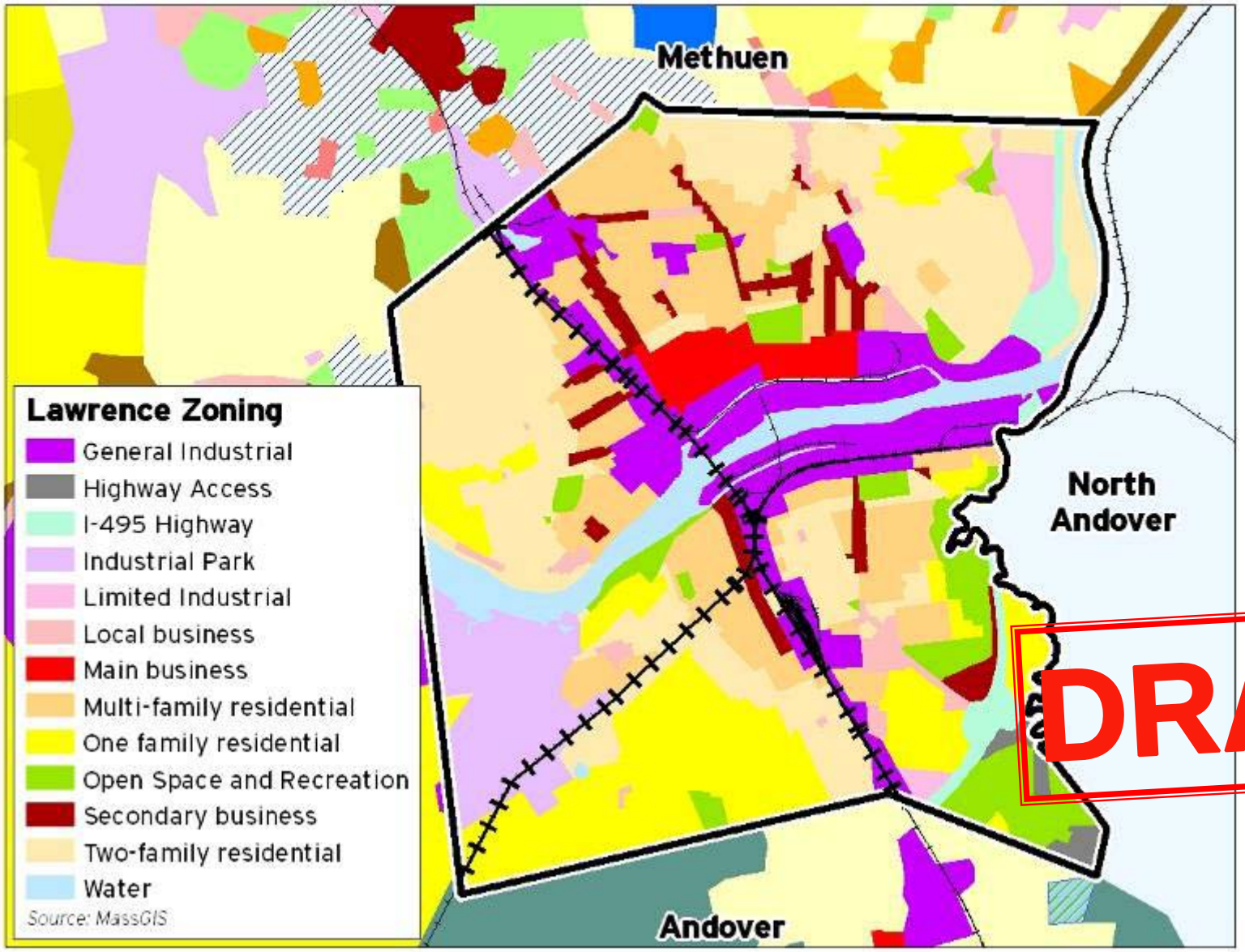

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Lawrence Land Use

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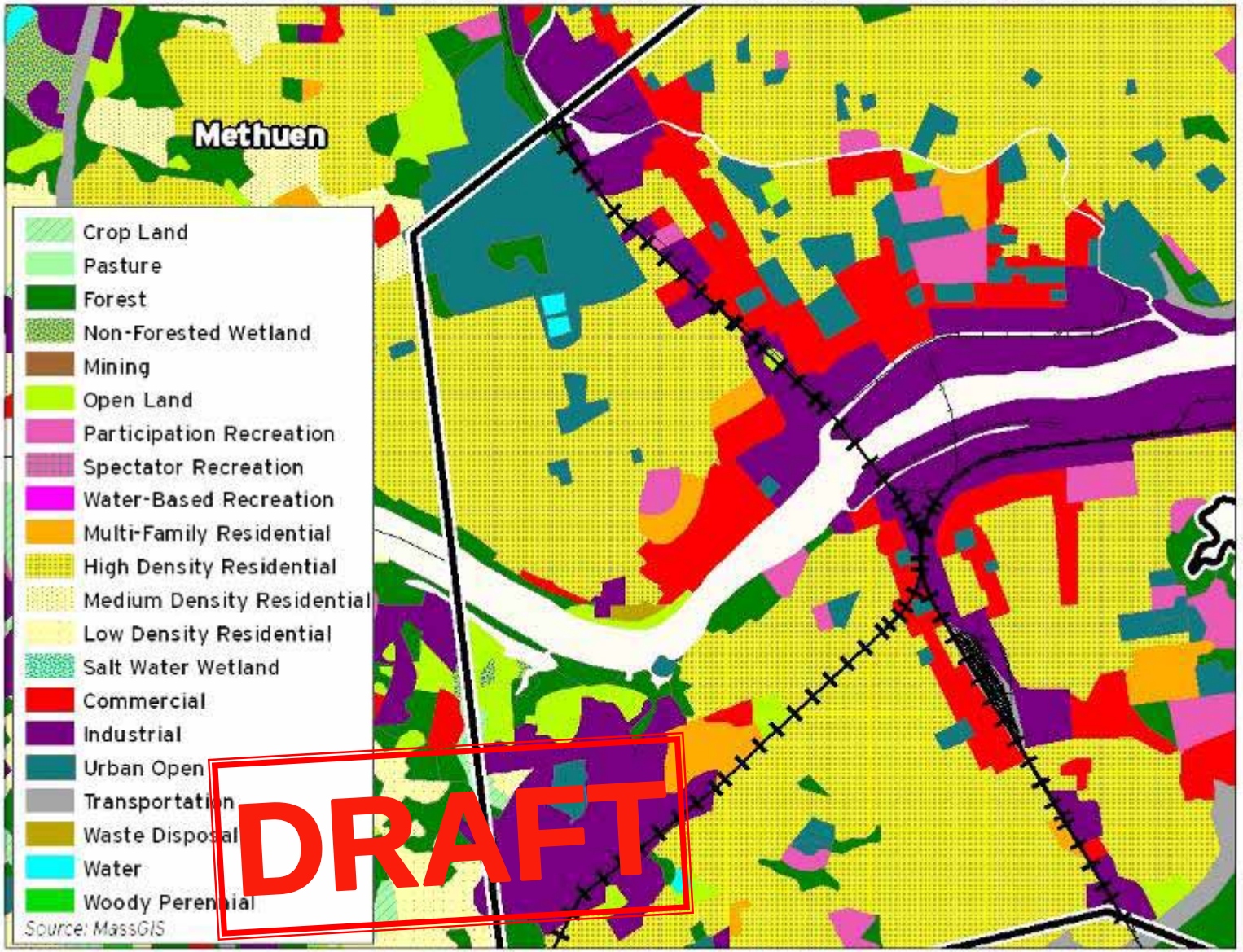

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Methuen Zoning

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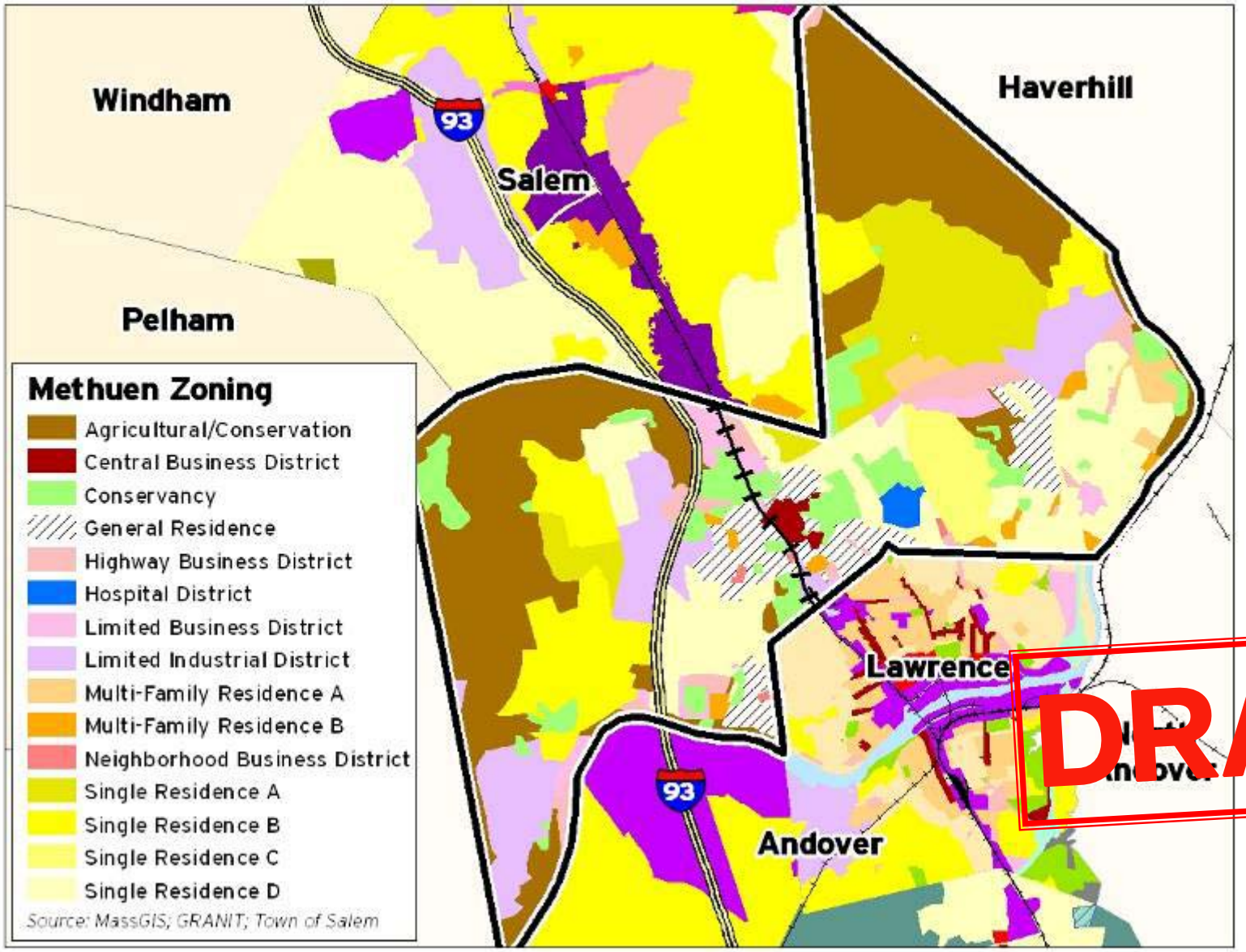

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Salem Zoning

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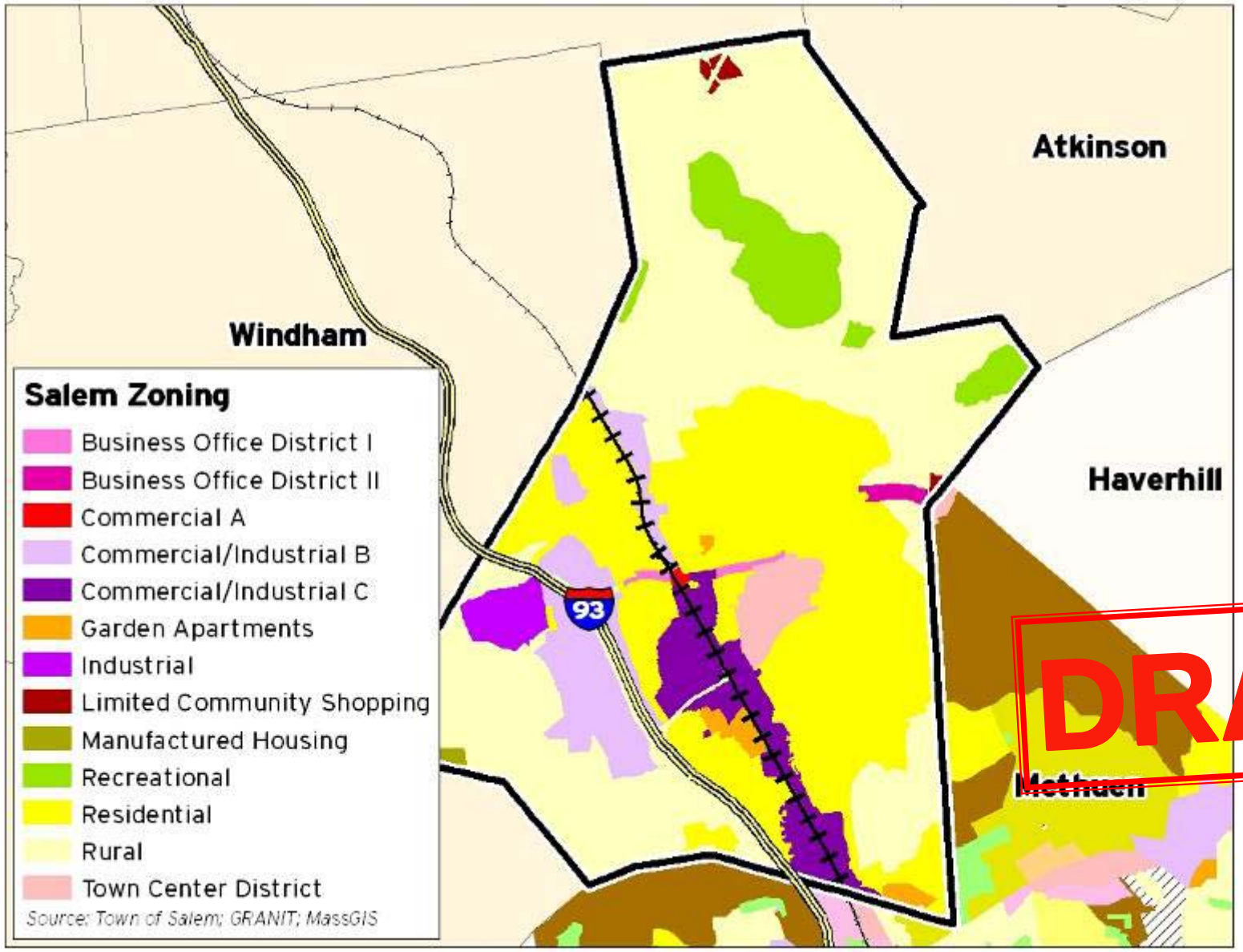

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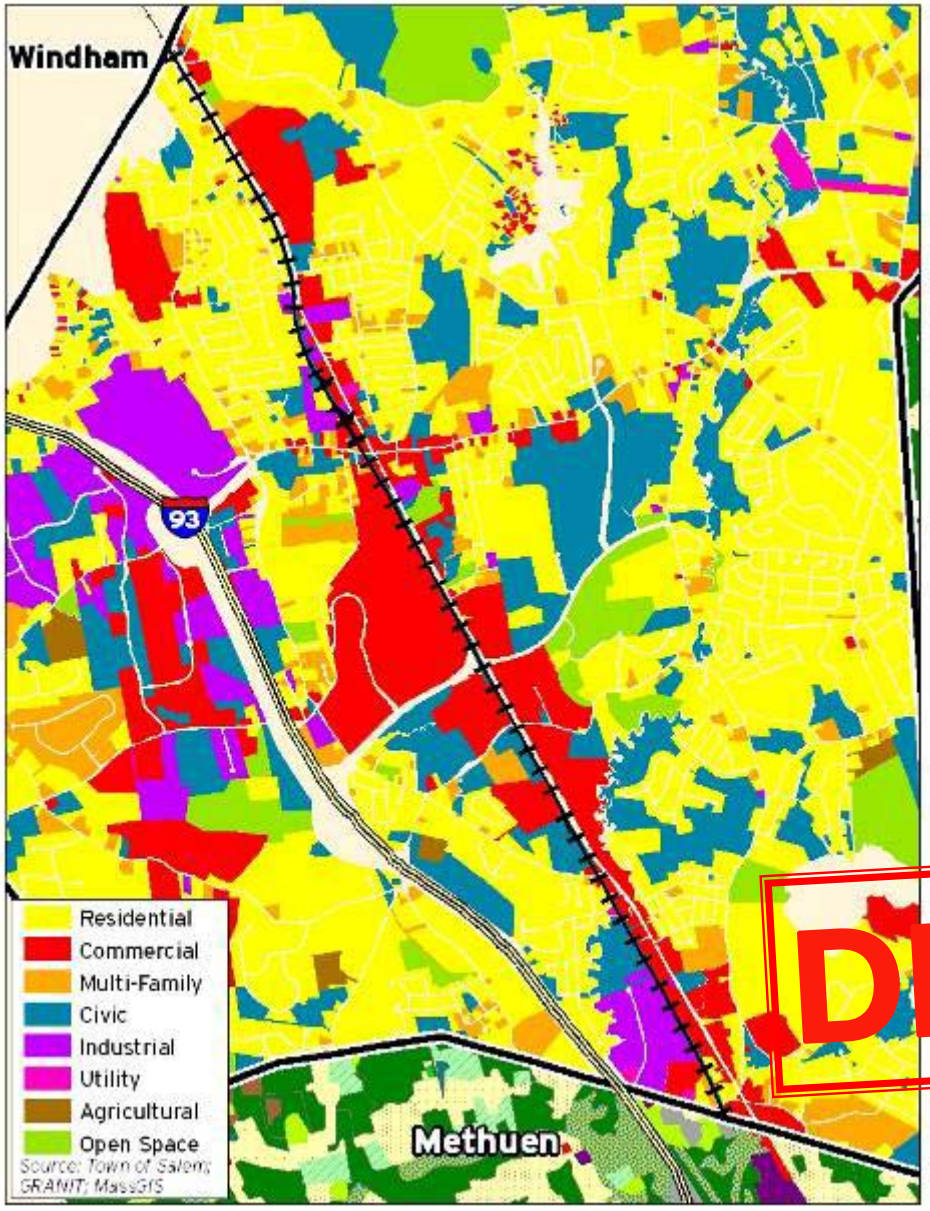
Salem Land Use



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Windham Zoning

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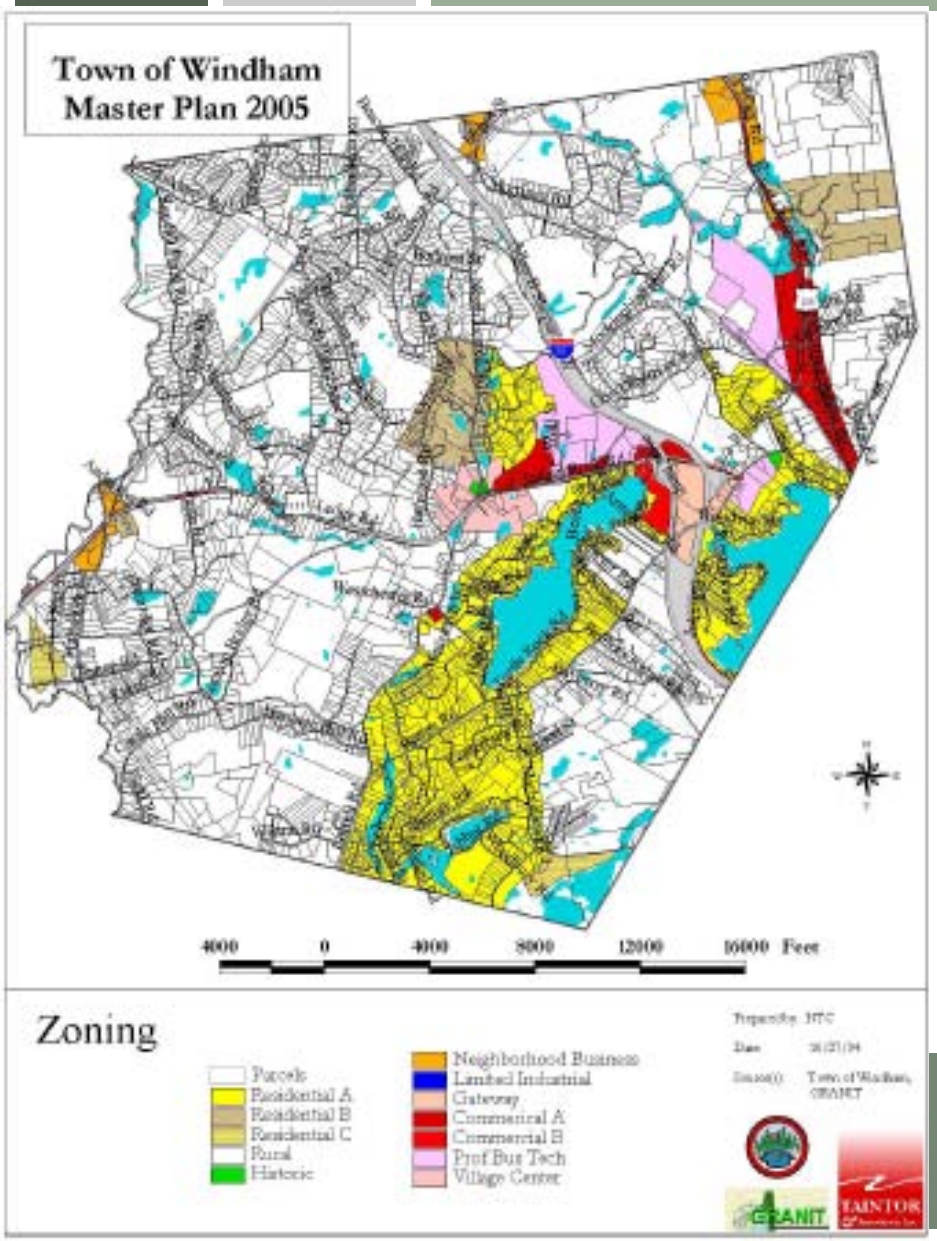

Derry Zoning

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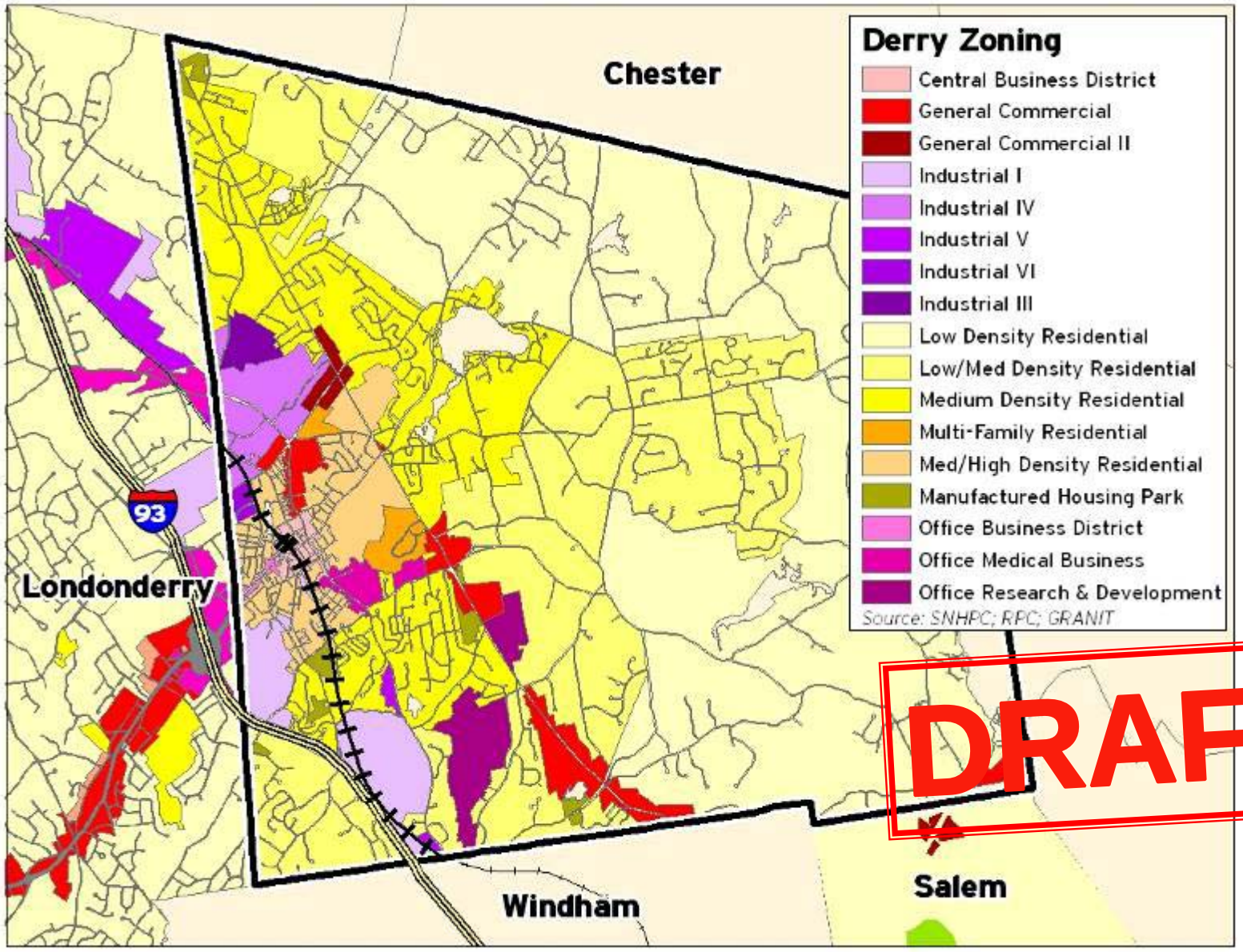

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Derry Land Use

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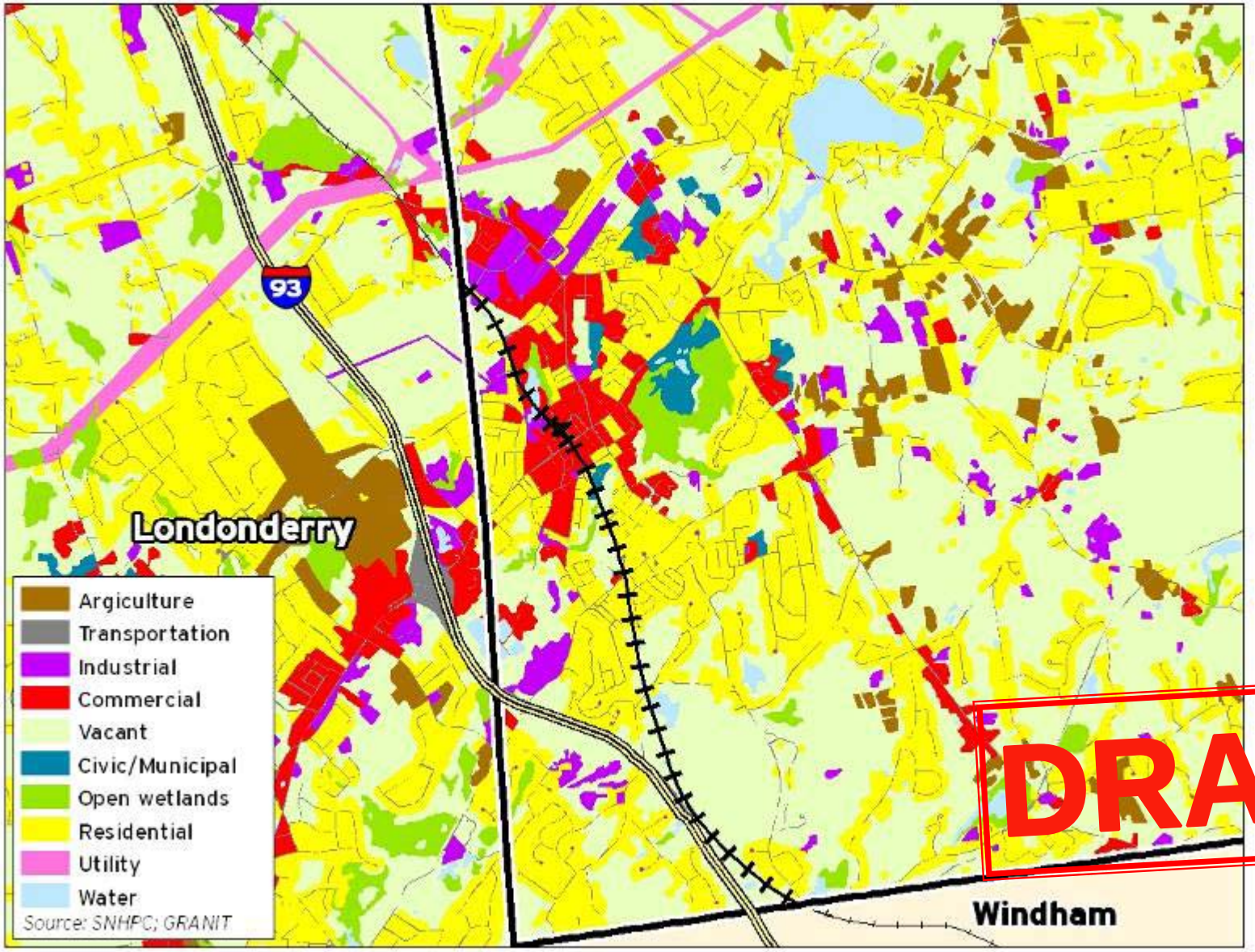

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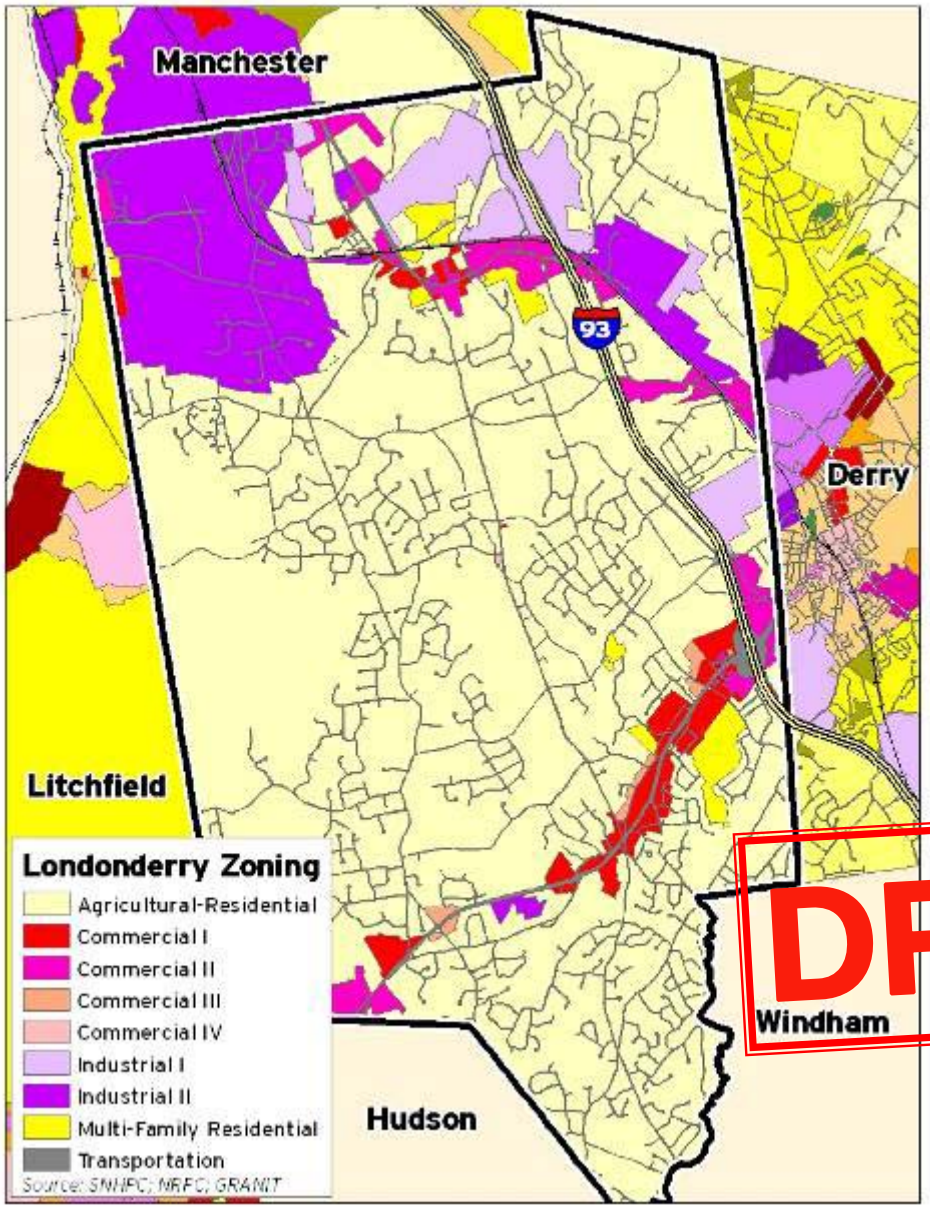
Londonderry Zoning



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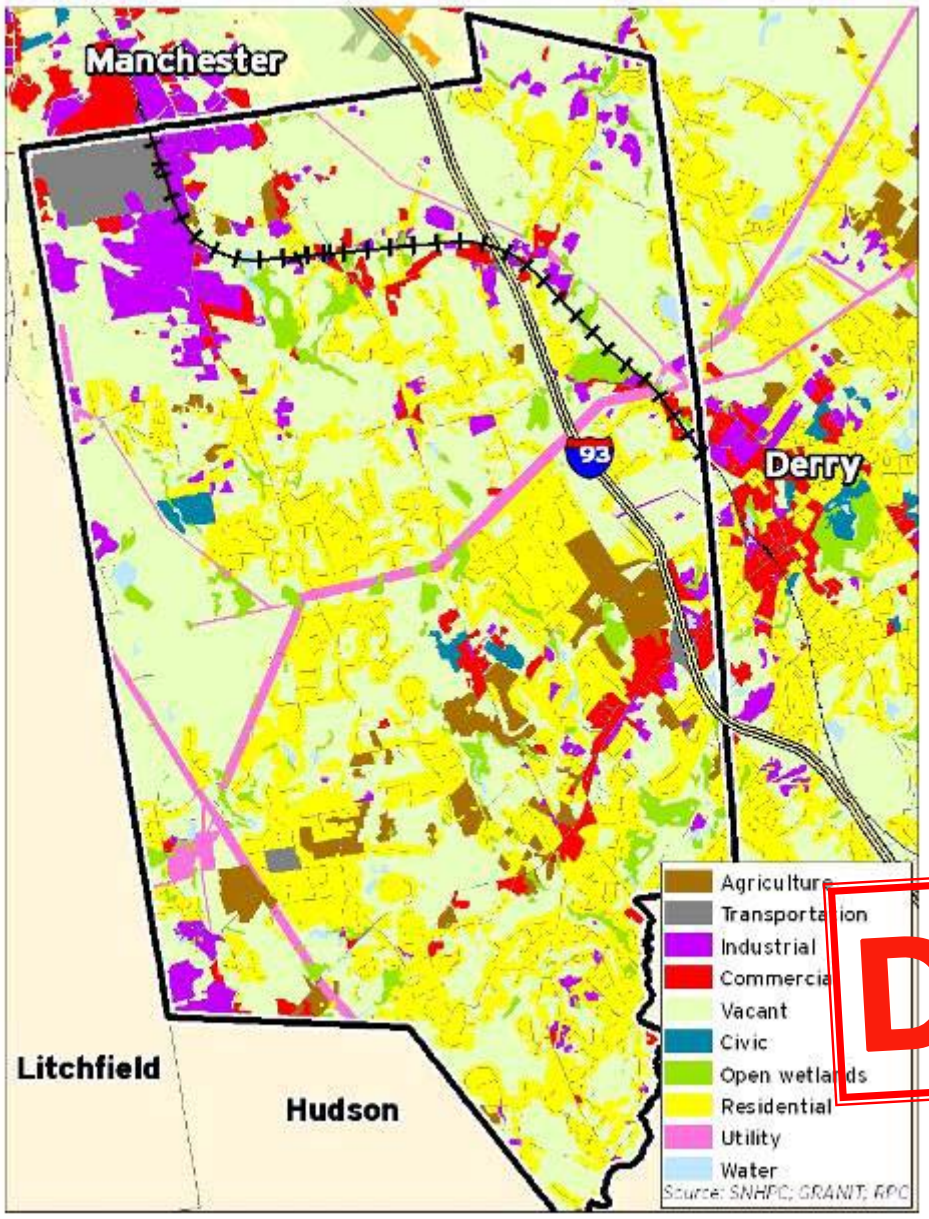
Londonderry Land Use



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Derry, NH

- Becoming suburb of Boston
- 35% of residents commute to Massachusetts, many to 495/128 corridor
- Chair of planning board: Derry → Lawrence → Boston
- Planning board needs to be educated
- Many residents from Massachusetts, like transit
- Support for rail, except adjacent owners
- M&L service would spur TOD downtown

Route 102 and M&L ROW

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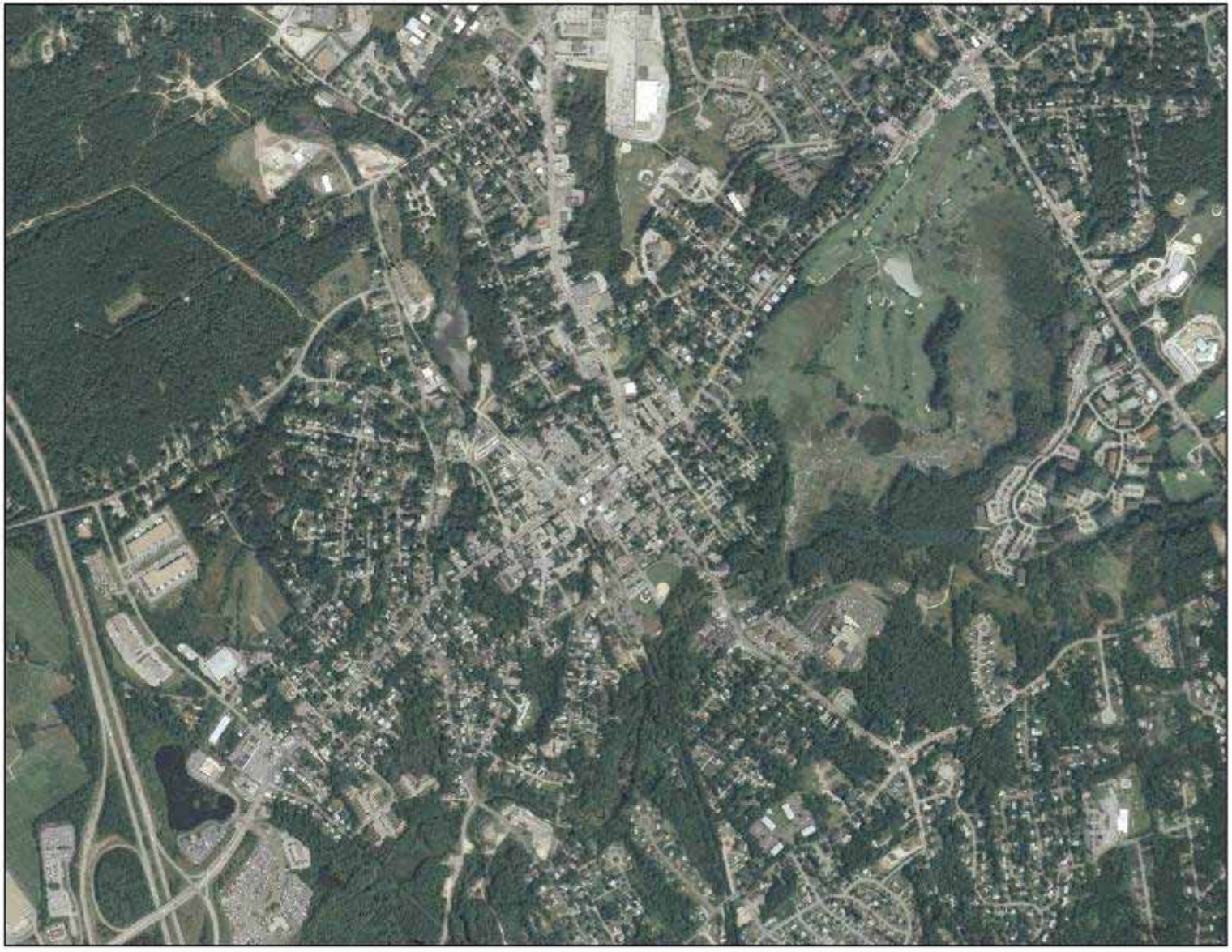
Route 102 and M&L ROW



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Manchester - Boston Regional Airport

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- Airport, Southwest very interested in any rail service
  - 20% of passengers from Massachusetts
  - FAQ on website: when rail?
- Van service to ARTC, Sullivan Square
  - 2 hours, 90 minutes, 60 minutes
- Support for Nashua - Manchester extension
  - Ease of implementation

Manchester - Boston Regional Airport

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- Runway tunnel OK, but not paying for it
- Airport would build any airport-oriented station
- Two sites on New Hampshire mainline
  - West of river
  - Brown Avenue: airport - owned site
- Need regional rail authority

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Manchester Airport

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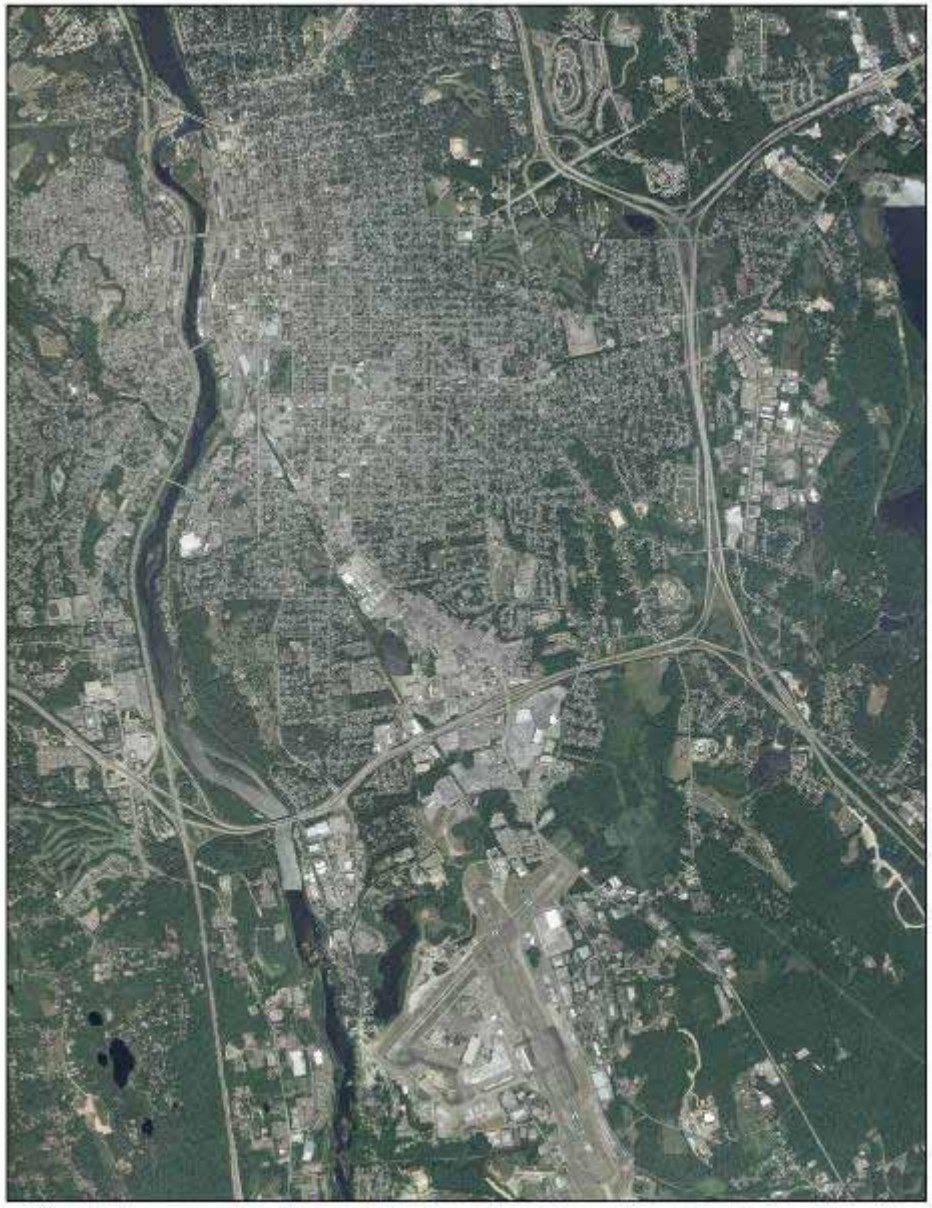
Manchester Airport



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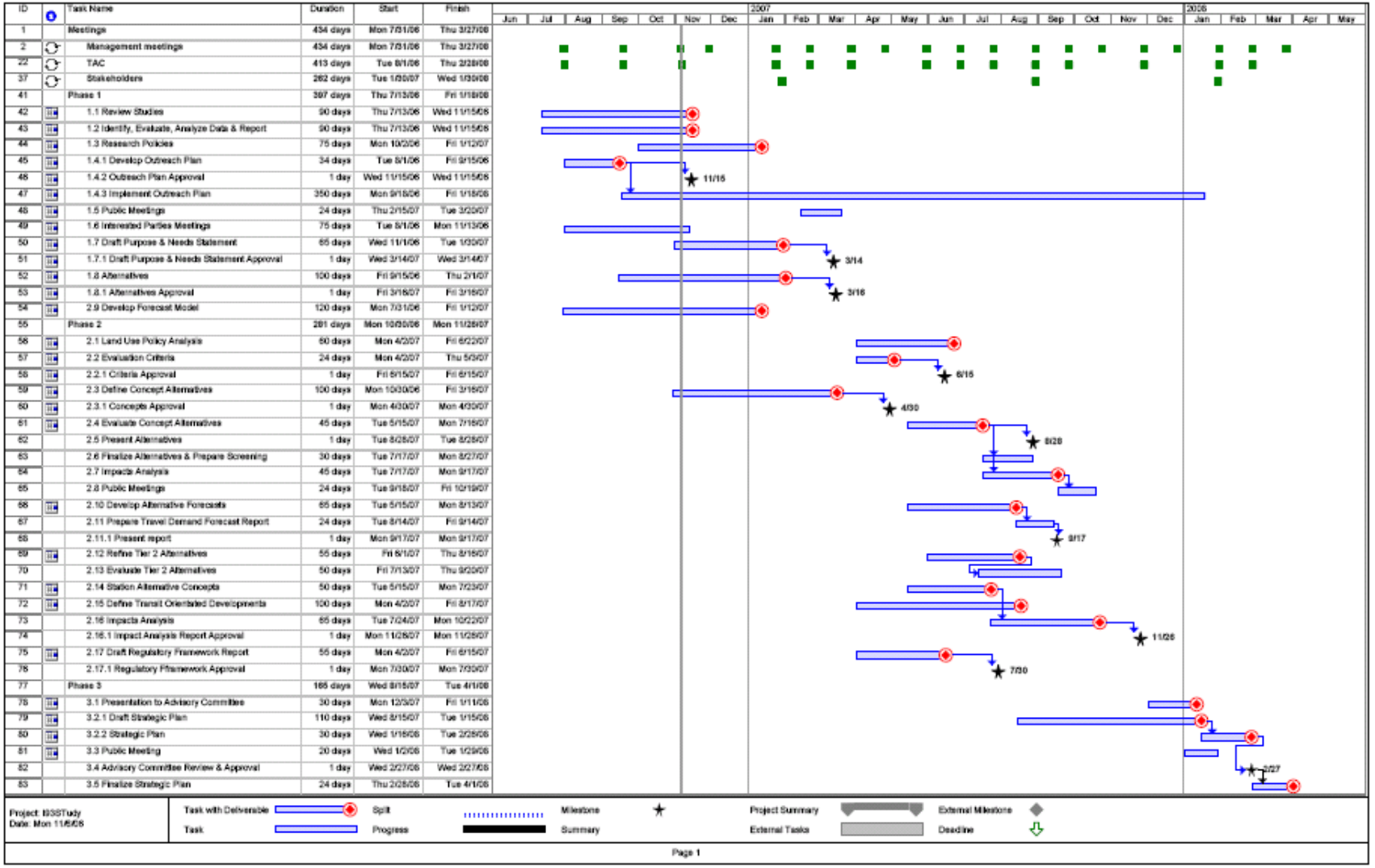
Next Steps



ID	Task Name	Duration	Start	Finish
1	Meetings	434 days	Mon 7/31/06	Thu 3/27/08
2	Management meetings	434 days	Mon 7/31/06	Thu 3/27/08
22	TAC	413 days	Tue 8/1/06	Thu 2/28/08
37	Stakeholders	282 days	Tue 1/30/07	Wed 1/30/08
41	Phase 1	397 days	Thu 7/13/06	Fri 1/18/08
42	1.1 Review Studies	90 days	Thu 7/13/06	Wed 11/15/06
43	1.2 Identify, Evaluate, Analyze Data & Report	90 days	Thu 7/13/06	Wed 11/15/06
44	1.3 Research Policies	75 days	Mon 10/2/06	Fri 1/12/07
45	1.4.1 Develop Outreach Plan	34 days	Tue 8/1/06	Fri 9/15/06
46	1.4.2 Outreach Plan Approval	1 day	Wed 11/15/06	Wed 11/15/06
47	1.4.3 Implement Outreach Plan	350 days	Mon 9/18/06	Fri 1/18/08
48	1.5 Public Meetings	24 days	Thu 2/15/07	Tue 3/20/07
49	1.6 Interested Parties Meetings	75 days	Tue 8/1/06	Mon 11/13/06
50	1.7 Draft Purpose & Needs Statement	65 days	Wed 11/1/06	Tue 1/30/07
51	1.7.1 Draft Purpose & Needs Statement Approval	1 day	Wed 3/14/07	Wed 3/14/07
52	1.8 Alternatives	100 days	Fri 9/15/06	Thu 2/1/07
53	1.8.1 Alternatives Approval	1 day	Fri 3/16/07	Fri 3/16/07
54	2.9 Develop Forecast Model	120 days	Mon 7/31/06	Fri 1/12/07
55	Phase 2	281 days	Mon 10/30/06	Mon 11/26/07
56	2.1 Land Use Policy Analysis	60 days	Mon 4/2/07	Fri 6/22/07
57	2.2 Evaluation Criteria	24 days	Mon 4/2/07	Thu 5/3/07
58	2.2.1 Criteria Approval	1 day	Fri 6/15/07	Fri 6/15/07
59	2.3 Define Concept Alternatives	100 days	Mon 10/30/06	Fri 3/16/07
60	2.3.1 Concepts Approval	1 day	Mon 4/30/07	Mon 4/30/07
61	2.4 Evaluate Concept Alternatives	45 days	Tue 5/15/07	Mon 7/16/07
62	2.5 Present Alternatives	1 day	Tue 8/28/07	Tue 8/28/07
63	2.6 Finalize Alternatives & Prepare Screening	30 days	Tue 7/17/07	Mon 8/27/07
64	2.7 Impacts Analysis	45 days	Tue 7/17/07	Mon 9/17/07
65	2.8 Public Meetings	24 days	Tue 9/18/07	Fri 10/19/07
66	2.10 Develop Alternative Forecasts	65 days	Tue 5/15/07	Mon 8/13/07
67	2.11 Prepare Travel Demand Forecast Report	24 days	Tue 8/14/07	Fri 9/14/07
68	2.11.1 Present report	1 day	Mon 9/17/07	Mon 9/17/07
69	2.12 Refine Tier 2 Alternatives	55 days	Fri 6/1/07	Thu 8/16/07
70	2.13 Evaluate Tier 2 Alternatives	50 days	Fri 7/13/07	Thu 9/20/07
71	2.14 Station Alternative Concepts	50 days	Tue 5/15/07	Mon 7/23/07
72	2.15 Define Transit Orientated Developments	100 days	Mon 4/2/07	Fri 8/17/07
73	2.16 Impacts Analysis	65 days	Tue 7/24/07	Mon 10/22/07
74	2.16.1 Impact Analysis Report Approval	1 day	Mon 11/26/07	Mon 11/26/07
75	2.17 Draft Regulatory Framework Report	55 days	Mon 4/2/07	Fri 6/15/07
76	2.17.1 Regulatory Framework Approval	1 day	Mon 7/30/07	Mon 7/30/07
77	Phase 3	165 days	Wed 8/15/07	Tue 4/1/08
78	3.1 Presentation to Advisory Committee	30 days	Mon 12/3/07	Fri 1/11/08
79	3.2.1 Draft Strategic Plan	110 days	Wed 8/15/07	Tue 1/15/08
80	3.2.2 Strategic Plan	30 days	Wed 1/16/08	Tue 2/26/08
81	3.3 Public Meeting	20 days	Wed 1/2/08	Tue 1/29/08
82	3.4 Advisory Committee Review & Approval	1 day	Wed 2/27/08	Wed 2/27/08
83	3.5 Finalize Strategic Plan	24 days	Thu 2/28/08	Tue 4/1/08