

Town of Exeter

Downtown Parking, Traffic, and Pedestrian Flow Analysis

DRAFT Recommendations - December 13, 2023



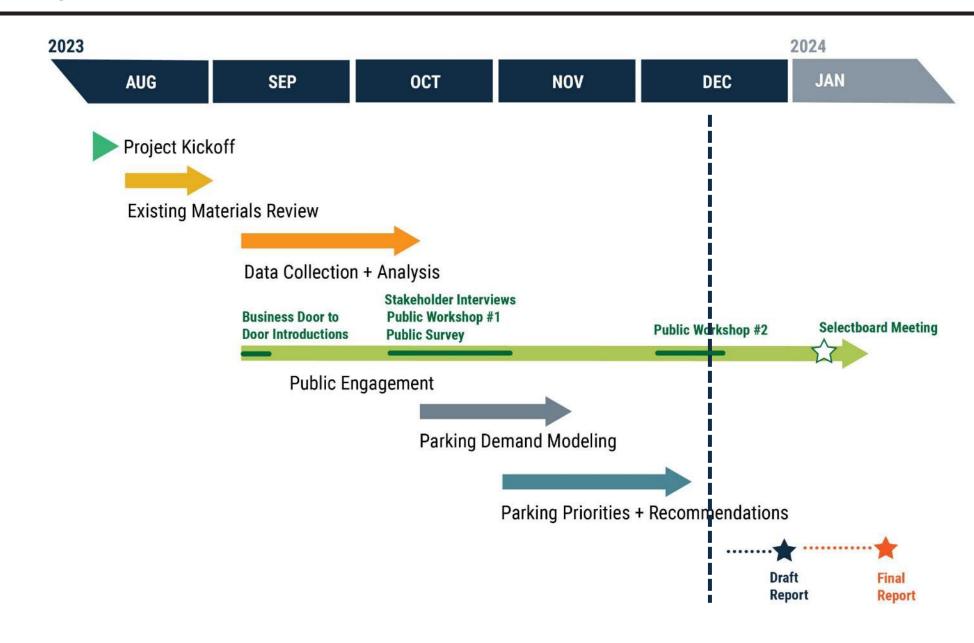






Study Schedule





PROJECT GOALS



- 1. Create a comprehensive inventory of downtown parking
- Assess how parking areas or regulations can better support long-term economic vitality downtown
- 3. Identify opportunities for long-term parking areas beyond the downtown core
- 4. Improve traffic flow and safety throughout downtown
- 5. Identify opportunities to establish or improve safe and convenient pedestrian and bicycle connections to and from parking
- Evaluate opportunities to improve the efficiency and effectiveness of parking enforcement

Parking Overview





Inventory

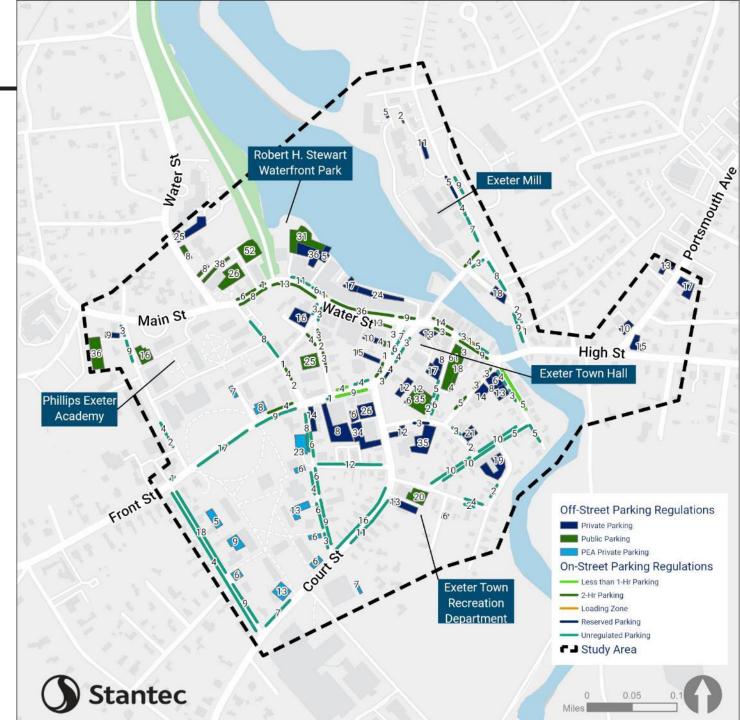
TOTAL SPACES – 1,586

Public – 938 Private – 648

On Street – 541 Off-Street – 1045

On-Street	# of Spaces	% of on-street parking
Total	541	
Less than 1-Hr Parking	18	4%
2-Hr Parking	152	28%
Loading Zone	5	1%
Reserved Parking	12	2%
Open Parking	354	65%

Off-Street	# of Spaces	% of off-street parking
Total	1,045	
Public Parking	397	38%
Private Parking	539	52%
PEA Private Parking	109	10%





Inventory Summary



Of over 500 on-street spaces, 65% are unregulated, which means there is greater flexibility in how they can be used

Some public facilities (waterfront lot) are not visible from the street

Aside from the post office, short-term spaces (less than 1 hour) are not located near shops that attract shorter-term visits (e.g., coffee shops, bakery)

There are limited spaces designated for long-term parking

There are limited loading areas

Why evaluate private parking?

Understand the overall system
How much private parking exists in relation to key destinations helps us understand how accessible parking is for visitors

Analyze development requirements

It is important to know how

private parking is being used

compared to zoning requirements

Optimize existing supply
Under certain conditions, private
parking, and how it is regulated
and managed, can provide an
opportunity to "expand" public supply



Survey Summary- 392 responses

and



58%

Park once and walk to multiple destinations when visiting downtown

52%

Typically park onstreet but

74%

Are willing to walk 3 minutes or more to/from parking

How many people utilized off-street facilities

Municipal Lot

Riverfront Lot

Center St Lot

The top 2 significantly-preferred downtown amenities

- Safer crosswalks
 - More parking

The perception of whether there were or were not downtown traffic congestion issues typically was about

50/50

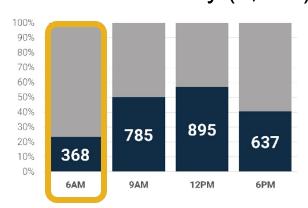
Parking Utilization • • •

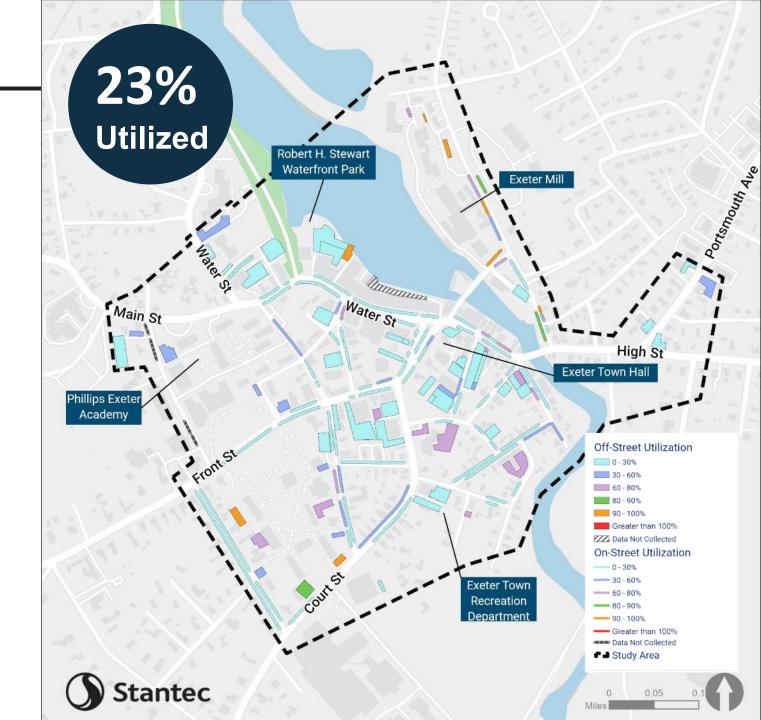




THURSDAY-6AM

- Overall, the study area has significant capacity available, including along and near Water St
- Only a few, small resident facilities full
- Chestnut St well-utilized
- Municipal Lot has ample capacity

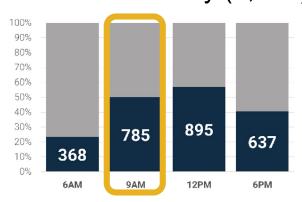


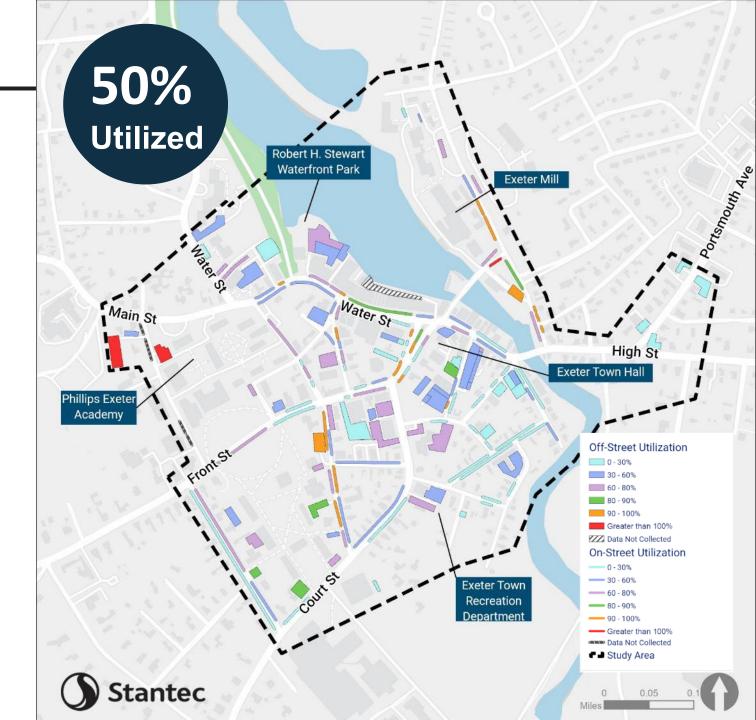




THURSDAY- 9AM

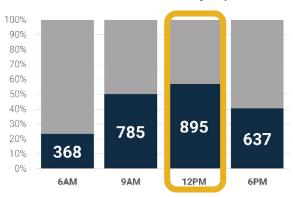
- Demand has significantly increased throughout the study area but capacity remains
- The Water St core is at optimal utilization (85%), with plenty of capacity in nearby, walkable spaces
- PEA Lots off Main Street are at capacity
- Chestnut St continues to be well used

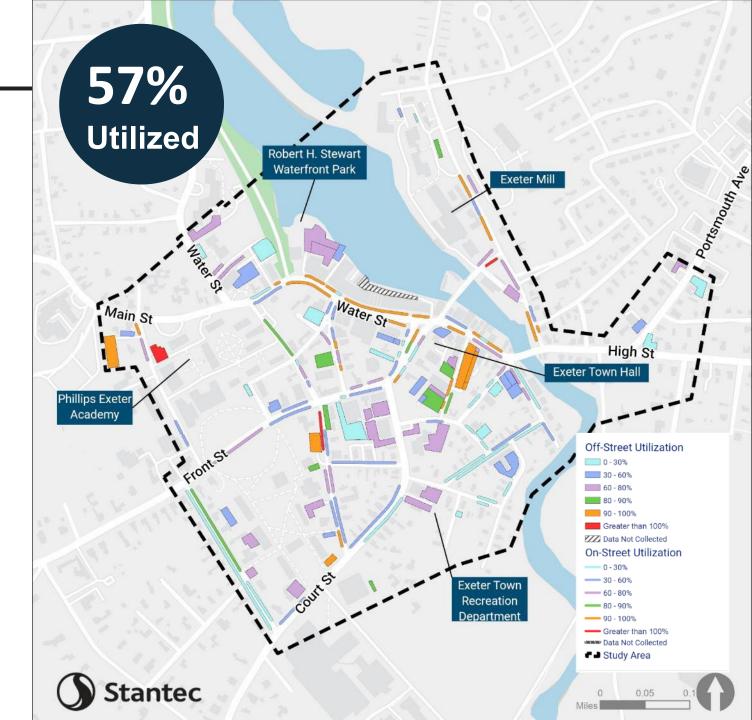




THURSDAY- 12PM (PEAK)

- (PEAK)
 Most of Water St on-street is completely full, though most nearby lots have plenty of capacity
- The Municipal Lot is completely full
- PEA lots off Main Street remain full
- Chestnut St remains heavily used
- Areas closest to post office are near full or full, though there is capacity nearby

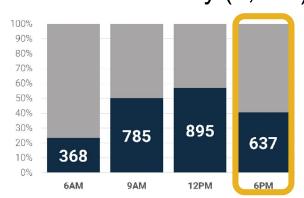


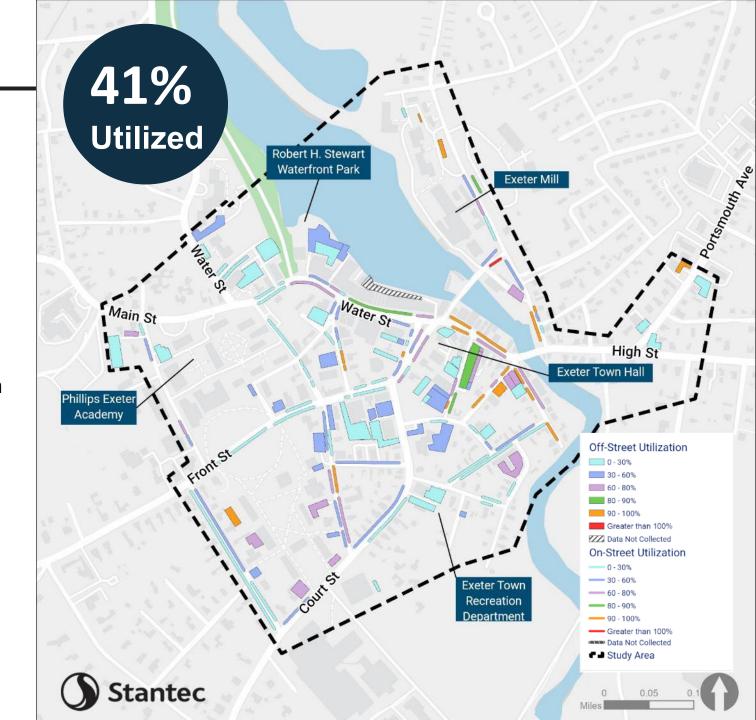




THURSDAY-6PM

- Significant availability has opened up throughout downtown, generally
- Western Water Street is optimally used
- Eastern Water Street is now at capacity
- Many nearby spaces are vacant
- The Municipal Lot is at optimal utilization

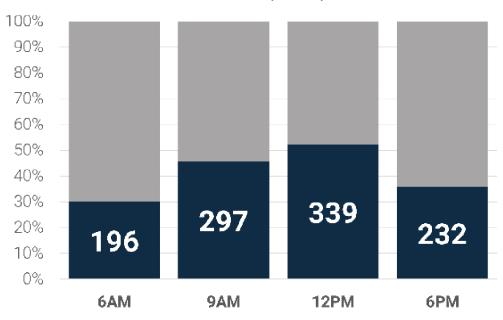




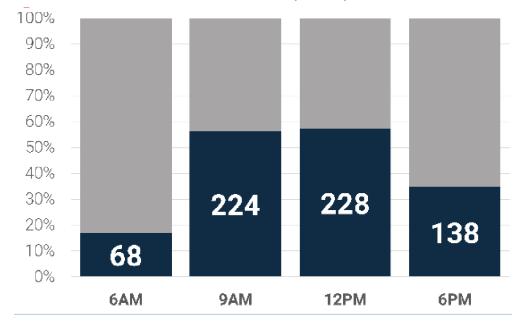




Off-Street Private (648)



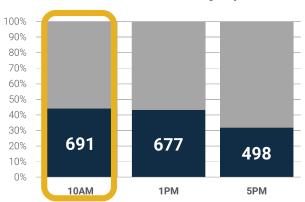
Off-Street Public (397)

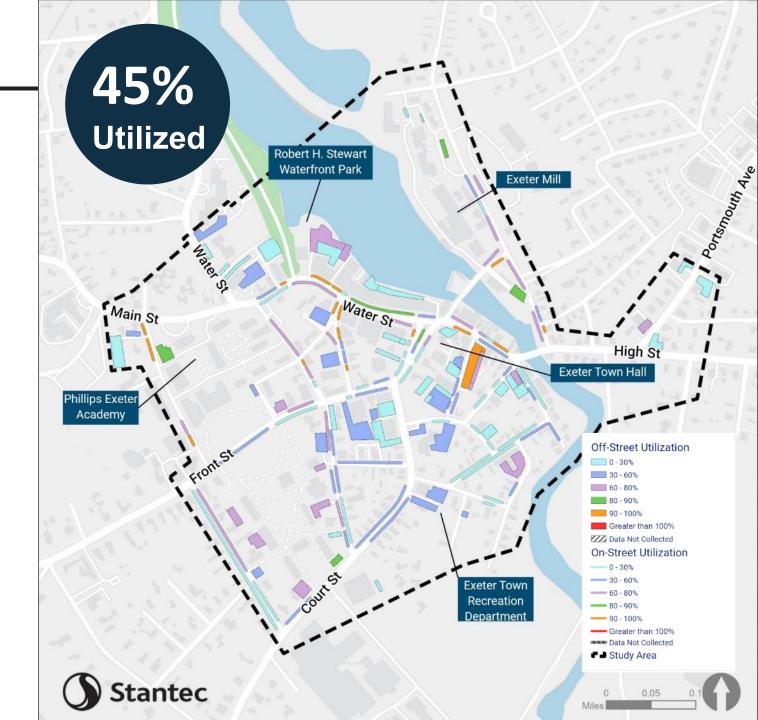


- Similar patterns of use
- There is a larger increase in off-street public space use than private space use as Water Street businesses start to open (~9AM)

SATURDAY- 10AM (PEAK)

- (PEAK)Water Street is mostly full in the core with availability on the perimeter
- Municipal Lot is the only off-street lot that is full
- Significant capacity available in all other lots

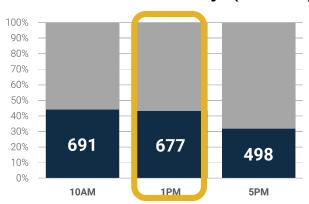


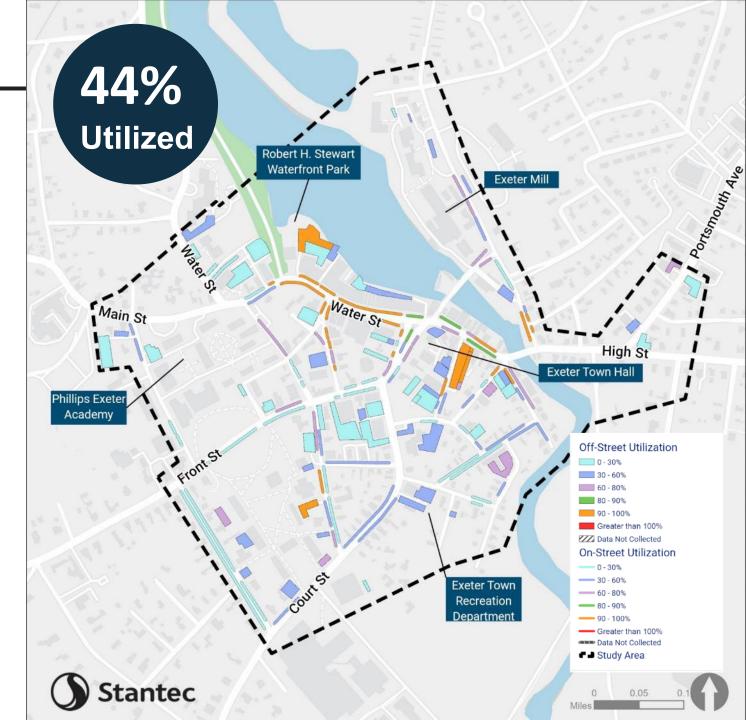




SATURDAY-1PM

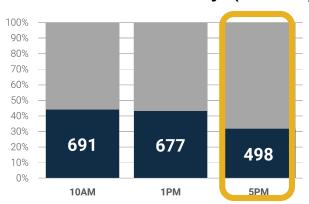
- On-street parking along Water Street is completely full
- Municipal Lot is at full capacity
- Public parking at the Boat Ramp Lot is also at capacity
- Other off-street lots have decompressed, leaving ample capacity

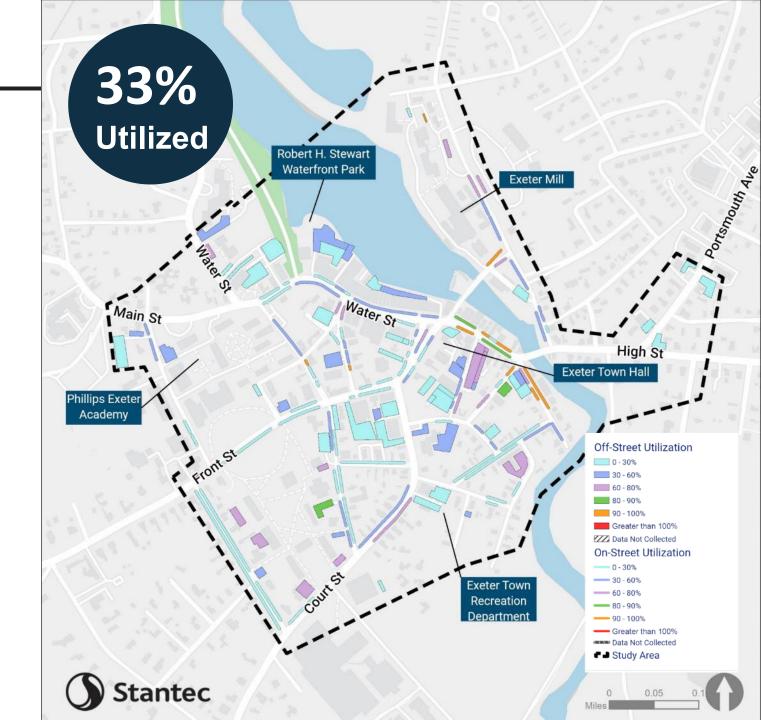




SATURDAY-5PM

- Western Water Street utilization is low
- Eastern Water Street spaces are now full
- The Municipal Lot is being utilized but capacity exists
- Generally high level of availability of all other spaces throughout downtown



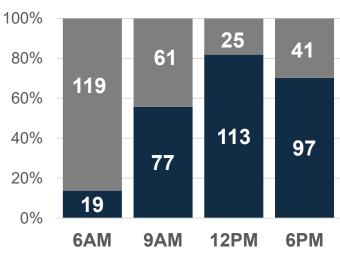




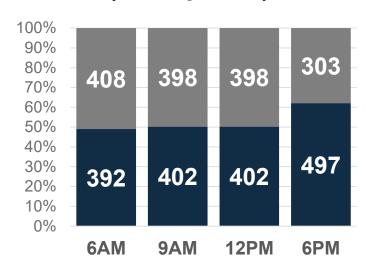
Utilization Summary - Weekday



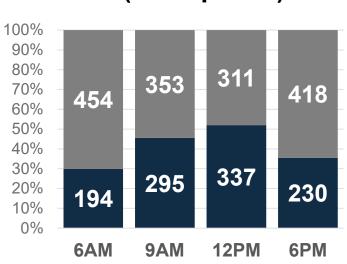




All other Public Parking (800 Spaces)



Private Parking (648 Spaces)



- Water Street is in high demand from lunch through dinner
- All other public parking remains approximately 50%-60% occupied throughout the day



Parking Utilization Takeaways



There is more than enough supply at any time of the day to meet current demand

Peak utilization is midday during the week, but it is still <60% of total capacity

Limited areas of high utilization are concentrated

- The most popular parking locations are the municipal lot behind the town offices and on Water Street.
- Center Street lot is well utilized, at about 60% to 90% throughout a weekday.
- The waterfront parking behind Water Street is utilized appropriately at the peak period, but underutilized other times of day.







Parking Turnover





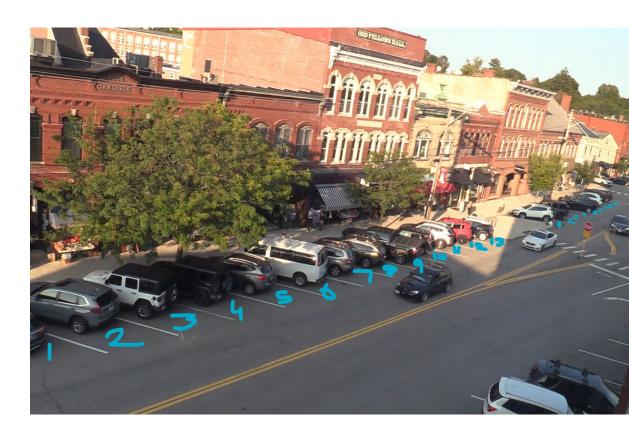
Parking Turnover Overview



Town recorded CCTV footage to provide timelapse of 22 spaces on Water Street over several days

Stantec analyzed occupancy recorded for every 15 minutes on a typical weekday (6AM – 4PM)

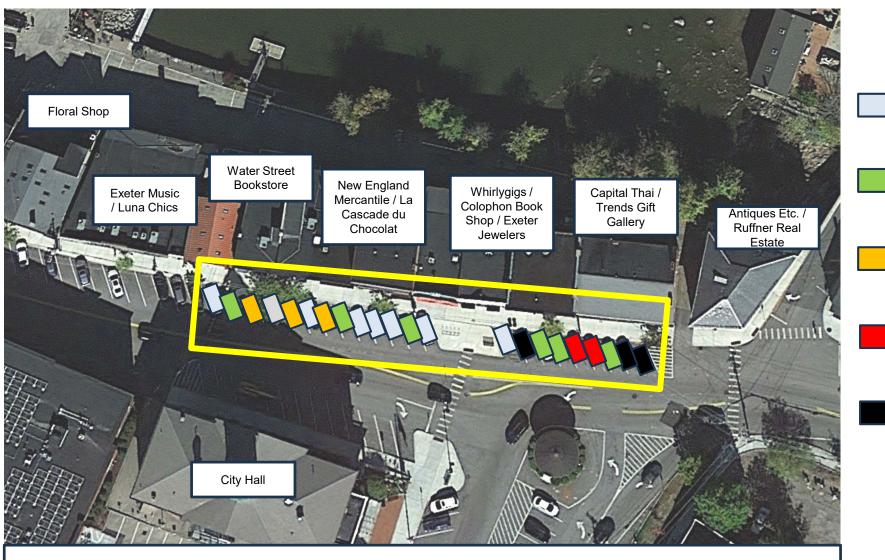
- ~5.5 Vehicles Average # of vehicles per space each day
- Two Spaces Used by one car all day
- Average Duration 2 Hours
- Once turned over (typically 1PM), many spaces saw turnover every 15 to 45 minutes





Parking Availability Overview (6AM – 9AM)





There was very low turnover during this time but also low demand, with several empty spaces

Availability

 Completely Available

- Mostly Available

- Somewhat Available

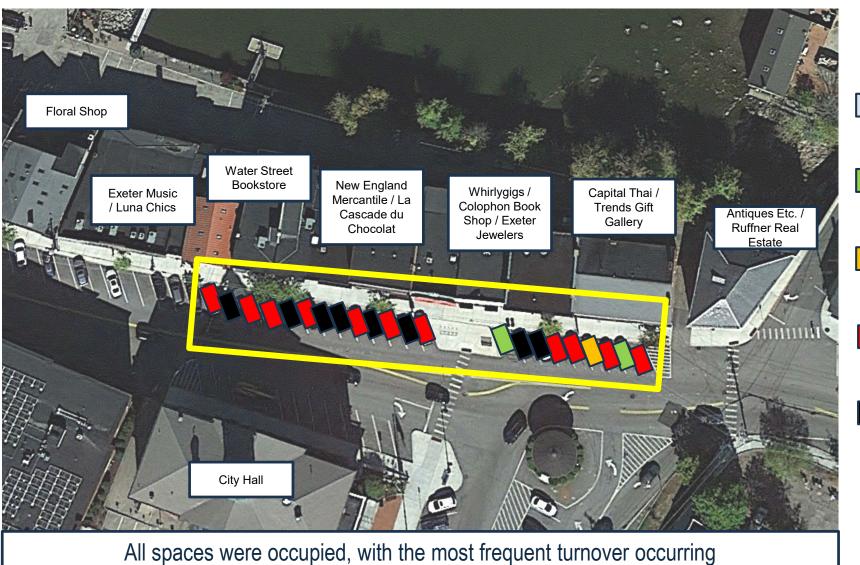
- Rarely Available

- Unavailable



Parking Availability Overview (9AM – 1PM)





outside the bookstore or the Thai restaurant and gallery

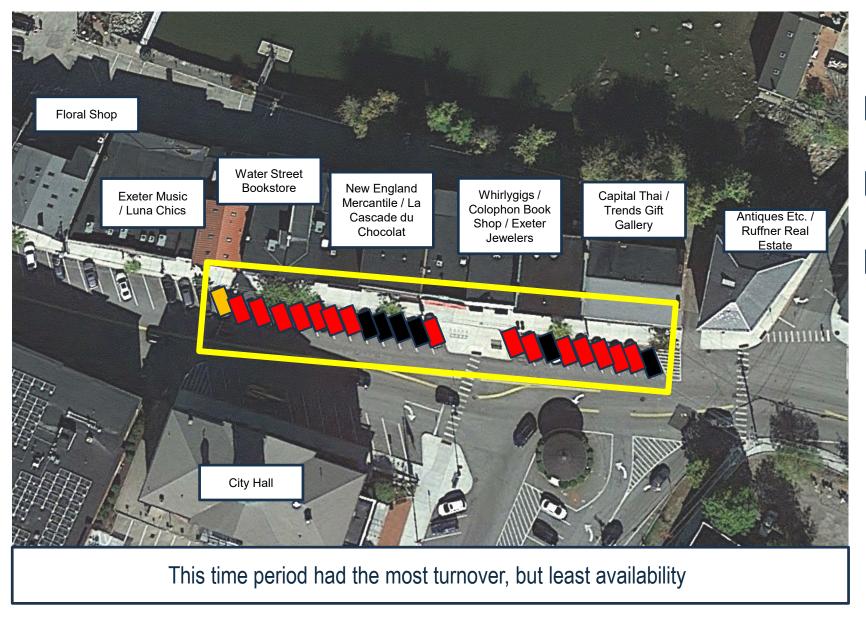
Availability

- Completely Available
- Mostly Available
- Somewhat Available
- Rarely Available
- Unavailable



Parking Availability Overview (1PM – 4PM)





Availability

- Completely Available
- Mostly Available
- Somewhat Available
- Rarely Available
- Unavailable

Traffic/Circulation + Pedestrian Safety Overview • • •



Traffic/Circulation Overview

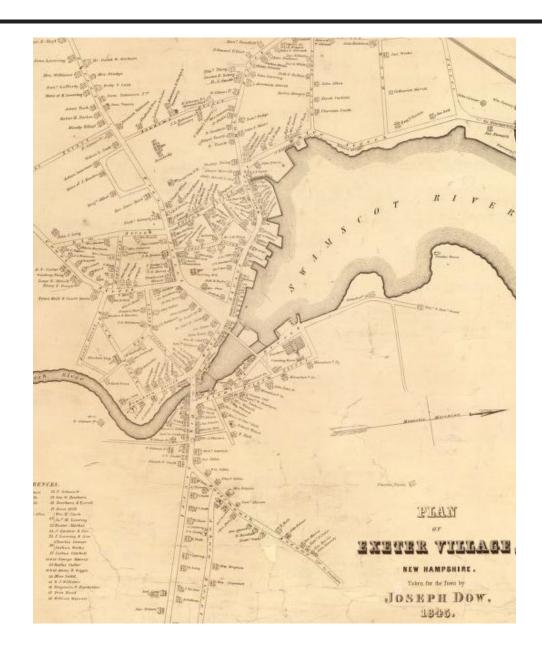


Downtown's roadway layout has remained relatively unchanged in over 200 years, although technology and travel methods has evolved

Hub of five NH State Highways, with immediate access to New Hampshire's major east-west freeway (NH Route 101) via four interchanges

Average daily traffic volumes

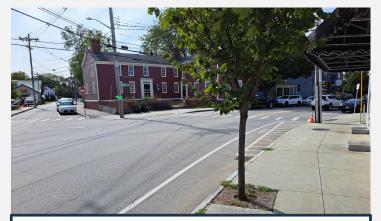
- Water Street volumes remain similar over 50 years: 11,730 (1966) --> 13,662 (2022)
- Front Street increase over 50 years:
 9,560 (1966) --> 13,131 (2022) (0.66%/year)





Pedestrian Safety Analysis





Roadway curvature and limited warnings to drivers

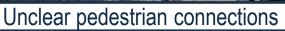


Wide, ambiguous, unmarked areas













Parking Wayfinding Analysis





No signs at parking lot entrances







Parking/Traffic/Pedestrian Key Takeaways



Demand on Water
Street is high for
all users

Many parking spaces on Water Street have limited availability

Circulation challenges contribute to congestion and safety issues

There is limited wayfinding to available parking opportunities

There are safety challenges for those walking/biking through downtown

There is substantial parkin g capacity within a short walk of Water Street

Draft Recommendations



Share Private Parking Supply



Goals aligned

1 2
3
4 5

What it does- "Expands" parking supply by increasing opportunities to use underutilized spaces in areas of higher demand

- Identify facilities that can absorb nearby high demand
- Town works with property owners to open currently restricted but underutilized parking to the public.
- This can be for select groups (i.e., employees) or at select times (i.e., after a business is closed for the day)
- Town can offer improvements to include in public parking system (e.g., maintenance)





Establish Short-Term/Loading Parking Spaces



Goals aligned

2

What it does- Accommodates short-term visitors without competing with high-demand parking areas or causing safety issues

- Identify preferred locations for loading areas (recommend one per block on Water Street)
- Measure parking demand and peak demand for loading zones and decide whether time limitations are appropriate (e.g., before 10AM only)
- Work with local businesses to determine preferred location of short-term parking spaces
- Establish a process for new businesses to request short-term parking spaces near their business based on use/demand





Introduce Paid Parking

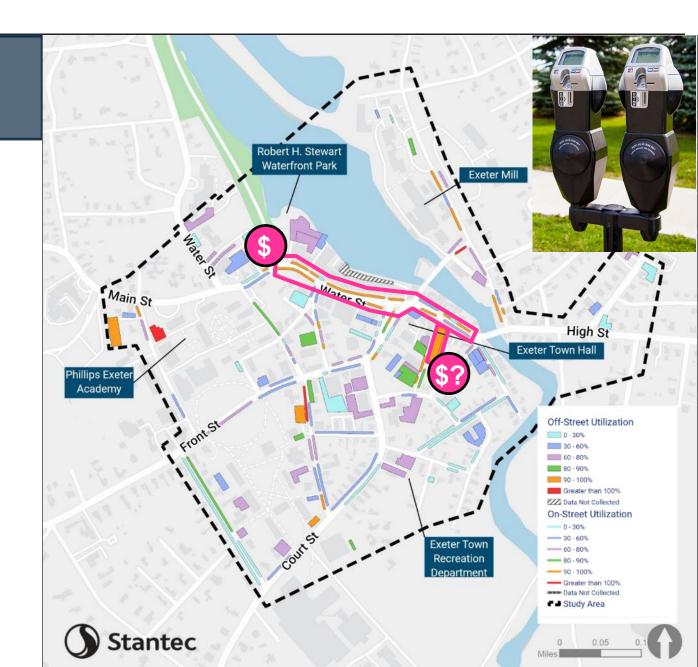


Goals aligned

1 2

What it does- Ensures there is availability in the facilities of highest demand and encourage use of nearby underutilized spaces which are walkable

- Introduce smart meters that accept coin, card, and pay by app (e.g., Passport)
- Paid parking on Water Street core, only
- Consider introducing paid parking at municipal lot at a later date
- Define a test period of pricing to evaluate effectiveness
- Provide information on Town website where meters are located, when in operation, and how to use them





Improve Parking Wayfinding Signage

Goals aligned
1 2
3

What it does - Improve public understanding of where parking is available and improve utilization of facilities less visible from the roadway

- Improve clarity of parking lot and regulation signs, eventually streamlining a consistent system
- Information available on the parking system everywhere!
- Establish signing that is highly visible and clearly directs to public parking from key intersections
 - Exeter can make it "their own"
- Develop a map of public parking facilities for the Exeter website, distribution by merchants, etc.





Introduce Parking Ambassadors Downtown



Goals aligned

1 2
3

What it does- Provides citizen enforcement and increases knowledge of parking regulations in areas with higher volumes of parking infractions

How it Works-

- Identify where ambassador zone(s) are, identifiable to visitors, and can communicate with Town officials while in the field, etc.
- Recruit parking ambassadors through PEA or an internship program to
 - Document overstays, double parking, etc. particularly along Water Street
 - Be a visible resource of information for visitors with parking questions
 - Determine ideal shift times (Seasonal? Peak periods only?)



CASE STUDY- Pittsfield, MA

The City recruits young parking ambassadors to support enforcement and teach visitors how to pay for parking



Reconfigure Bandstand Intersection

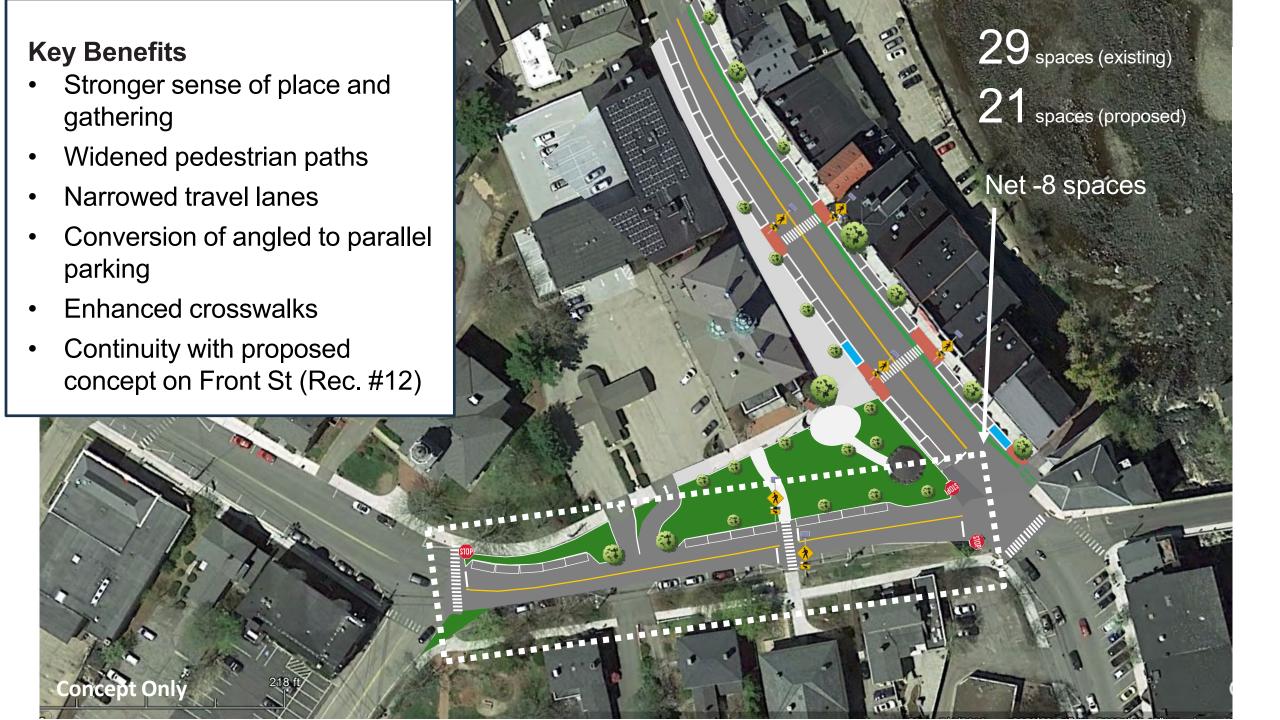


Goals aligned
1 2

What it does- Improves nearby circulation to reduce congestion and safety incidents while also promoting walking and downtown vitality

- Develop a steering committee for coordination and oversight of redesign process
- Either develop internally or hire consultant to develop preferred concept design, including an indepth outreach process
- Hire additional consultants for:
 - Necessary feasibility studies
 - Conducting pilots and demonstrations
 - Developing engineered final designs







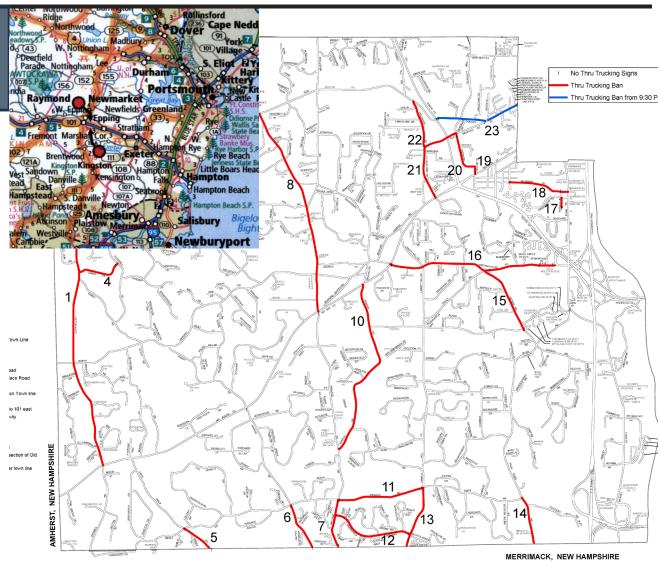
Establish New Truck Route



Goals aligned
1 2

What it does- Diverts large vehicles from high volume areas of downtown to reduce congestion and potential safety issues.

- Town should request reviewer status for NHDOT Oversize/Overweight Permits
- Establish list and plan for "No Thru Trucks", including high visibility signing and timebased restrictions
- Develop an ordinance article by Select Board for vehicles on roadways
- Notification to navigation providers





Adjust Zoning for Small-Scale Developments



Goals aligned

What it does – Allows incremental new development in the downtown without creating more unnecessary surface parking

- Reduce or eliminate parking requirements for small scale development
- Simplify parking requirements and allow reduced parking requirements by right when possible





Revise Winter Parking Plan

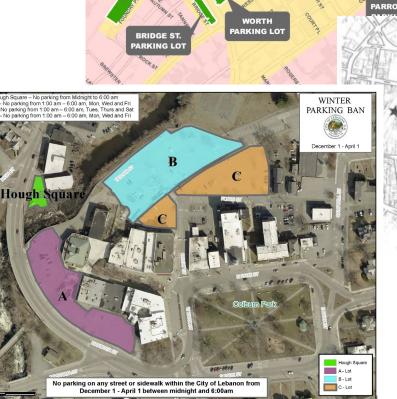


Goals aligned

What it does- Re-evaluates parking bans to minimize inconvenience to parkers and decrease the need for off-street residential parking

How it works

- Today, Water Street Municipal Lot open (33 overnight spaces), 8 spaces on Pleasant Street, and inclusion of Center St Lot
- Specify bans during weather emergencies only
- Provide an online map showing where parking is available during the ban
- Provide communication options for citizens to be notified or access current information/updates
 - Email / Text
 - Beacons on structures



HIGH HANOVER PARKING GARAGI

PARKING GARAG



Parking Plan for Winter Overnight Parking

DENOTES APPROVED SNOW BAN PARKING AREAS



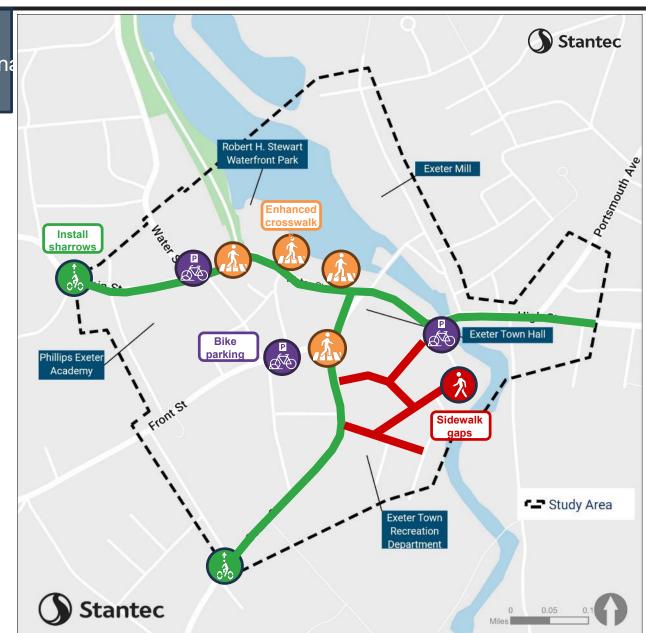
Multimodal Improvements

Goals aligned

1 2
3

What it does- Prioritizes safety for pedestrians connecting to/from parking and other key destination downtown

- Close sidewalk gaps and reduce sidewalk obstructions through utility pole licensing
- Enhance crosswalks with bump outs (shortened crossings), widened striping, active pedestrian warning signage, etc.
 - Swasey Parkway @ Water Street
 - Water Street @ Center Street (North Side)
 - Water Street @ Municipal Lot Entrance
 - Front Street @ Court Street
- Formalize parking on Elliot Street and Elm Street to reduce roadway impingements





Improve Signage + Markings for Bicyclists



Goals aligned

2

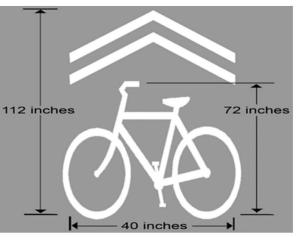
What it is- Installing sharrow markings and other visible signage to increase awareness and support of bicycle movement throughout downtown

- Install sharrow markings along Water and Main Street using MUTCD guidance
- Install Share the Road signs, particularly at locations with sightline challenges
- Install bike parking signage











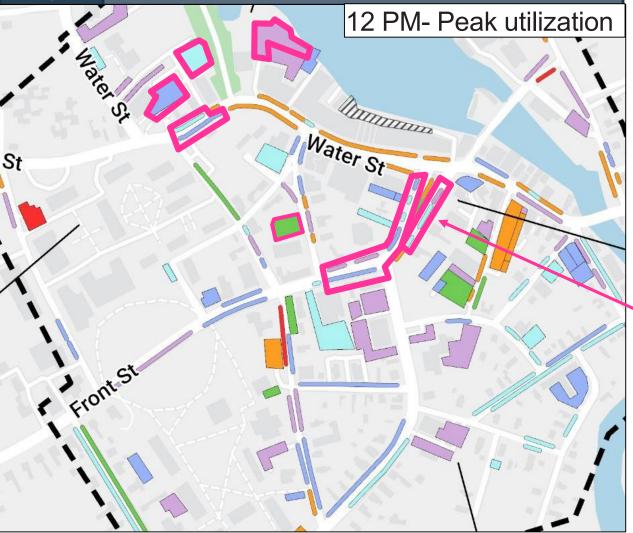
Consider Re-imagining Parking on Water Street



Goals aligned

1 2
3
4 5

What it is- A reconfiguration of parking to reduce safety challenges of back-out parking and introduce space for bike infrastructure or other amenities



How it works

- Convert angled parking to parallel
- Install bike lane

75 spaces (existing)

 $46_{\,\text{spaces (proposed)}}$

Net -33 spaces

Even at peak periods, public parking within a 2-minute walk can easily absorb potential demand for the removed 33 spaces along Water Street.

At non-peak times, nearby availability further increases.



Consider Re-imagining Parking on Water Street







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