Crafts Street Elderly Housing with Services

Land Use Presentation

August 9, 2022



Sustainability





Primary Goal: Passive House Certification

Challenges: Elderly Housing Use

- Commercial Kitchen
- Pool
- Central Hot Water
- Electrification





Preliminary Analysis

1. Base Residential Building (HVAC/Envelope)

Upgraded glazing, insulation, air tightness, HVAC performance, etc.

2. Commercial Kitchen

- Operational changes needed.
- Heat recovery in exhaust potentially needed.

3. Pool

Operational changes needed (ventilation, temperature, etc.).

4. Hot Water

- Centralized system needed.
- May need heat pump heater to achieve metrics for kitchen and pool.





Achievable Commitments

1. Passive House Level Design for Residential Portions

- Additional insulation, thermal breaks air sealing
- Upgraded triple glazing
- Upgraded HVAC

2. Testing and Verification

- PH-level energy use
- PH-level airtightness

3. Best-in-Class Design for Kitchen and Pool

- Induction appliances
- Quality pool Equipment

4. Central Hot Water

Future Upgrade Capability

5. Electrification





Testing and Verification

The project team intends to work with the City and Green Newton to establish proposed Council Order conditions to verify that the design and execution of the project meets the following standards:

Passive House Certifiability of the Residential portions of the project

- Space Heating Demand: less than 4.8 kBtu/ft2.yr
- Space Cooling Demand: less than 5.1 kBtu/ft2.yr
- EUI: 16 kBtu/ft2.yr
- Primary Energy Renewable (PER): less than 19 kBtu/ft2.yr (the PER metric considers the EUI metric, while adding the carbon impact of the choice of energy source)
- Airtightness: 0.6ACH @50Pa





Construction Management Plan



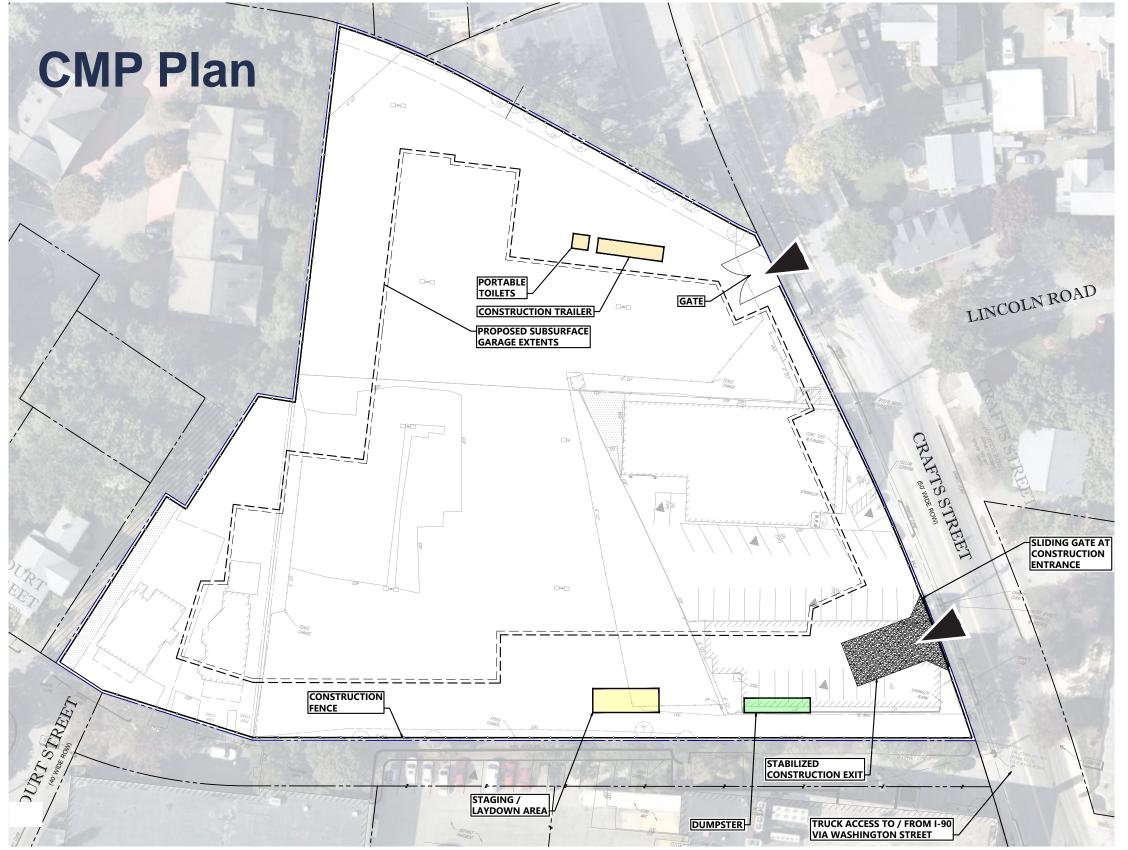


Final CMP will include:

- Contact Information
- Hours of Operation
- Schedule
- Site Plan
- Truck Routing
- Site Security and Safety
- Noise/Vibration Monitoring
- Air Quality and Emissions Monitoring
- Rodent Control Plan
- Tree Protection



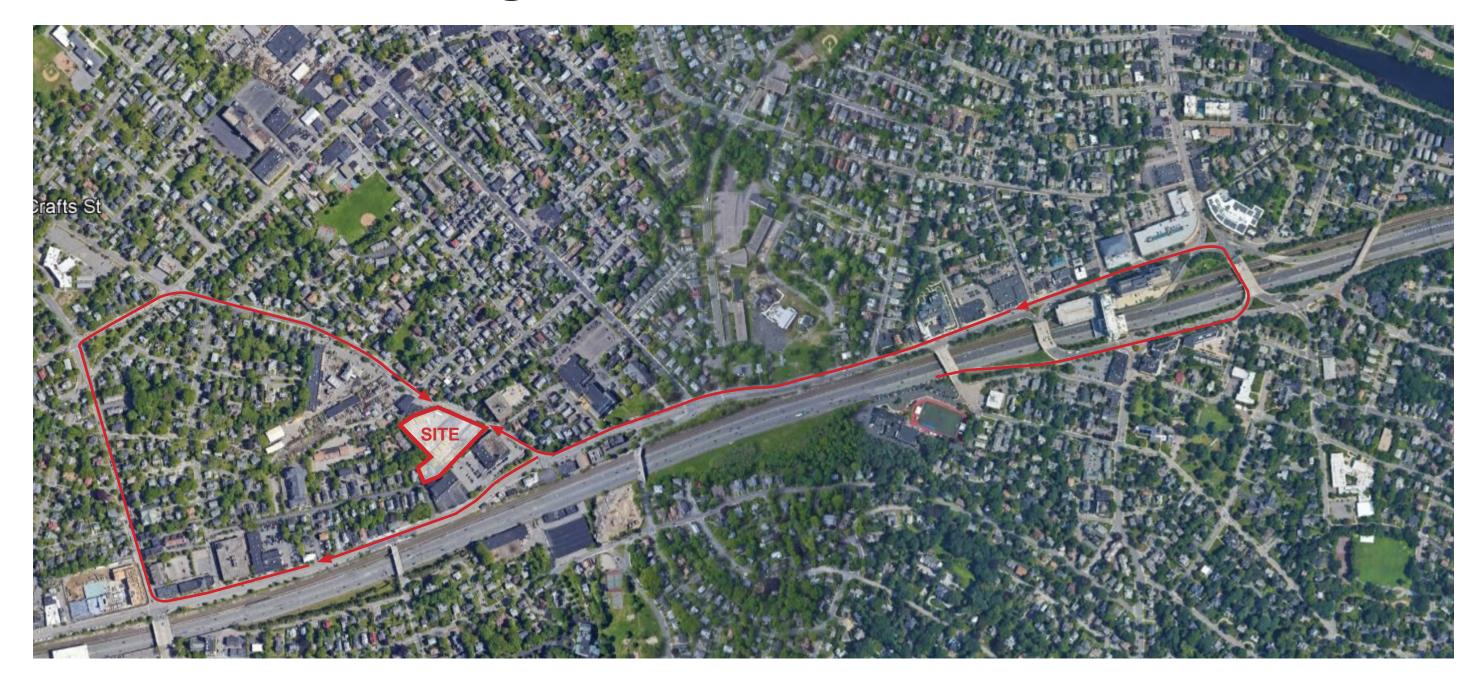








Construction Routing







Hours of Construction

Limitations on Exterior Construction/Heavy Equipment Operation:

Weekdays 7:00am - 5:00pm

Saturdays 8:00am - 4:00pm





Construction Worker Parking

- Workers shall park on site and along Washington Street in limited areas.
- Contractor will coordinate potential remote lot areas for parking, if needed.
- No parking on Crafts Street, Court Street, or other neighborhood streets.





Liaison Committee

To enhance and ensure communication as to the status and progress of the construction of the Project.

To provide a forum for initial presentation of a construction schedule and any significant changes to schedule or changes of plans for which public review is appropriate.

To provide a public forum for presentation of supplementary permit requests to the extent required.

To receive and deal with construction-specific issues including, without limitation, noise, dust, parking and traffic; to monitor implementation of the final Construction Management Plan; and to receive notices and communications from the Department of Inspectional Services and the Planning and Development Department.





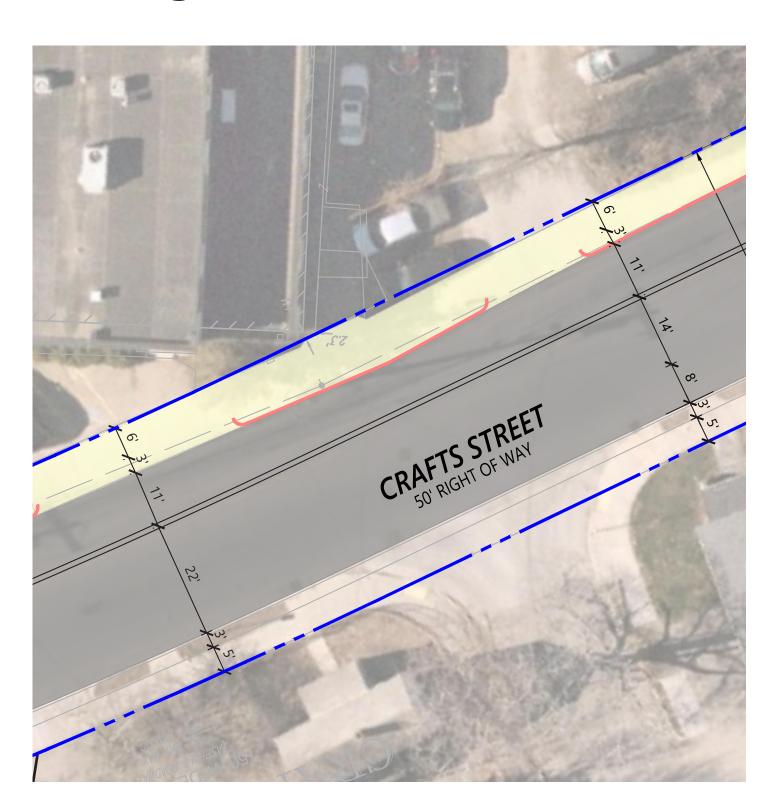
Drop-off & Pick-up Proposal

- Revised Proposed Use from Parking to Pick-up/Drop-off
- Promotes Activation of Entry
- Avoids In-lane Stopping
- Expanded Furnishing Zone Similar to TRIO (Maintained by Development)



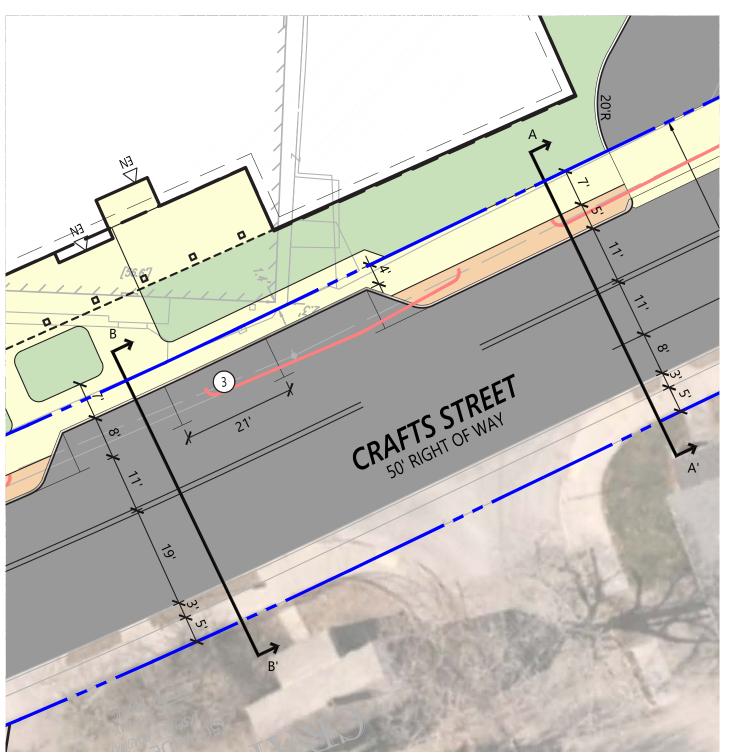


Existing



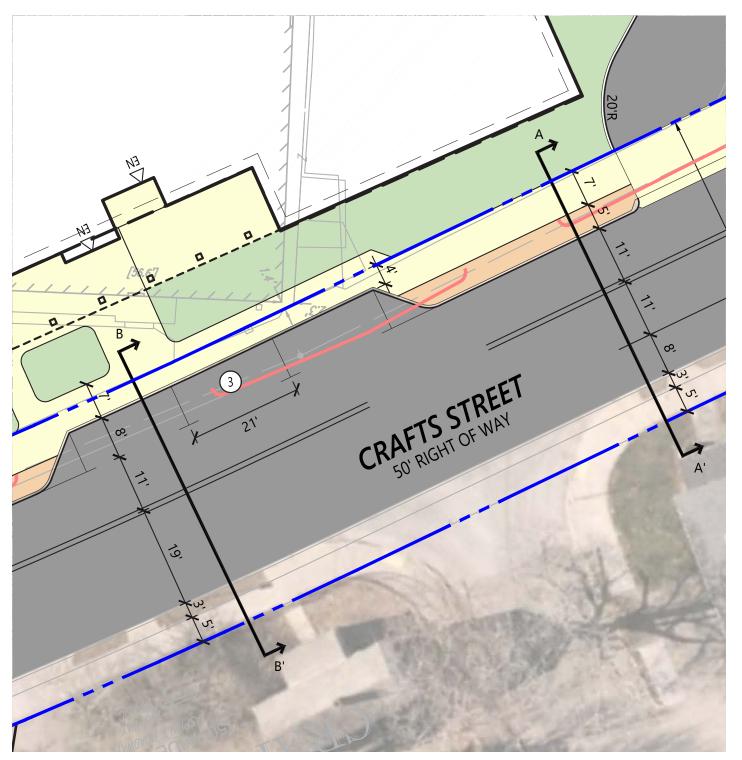
Originally Proposed

June 16, 2022



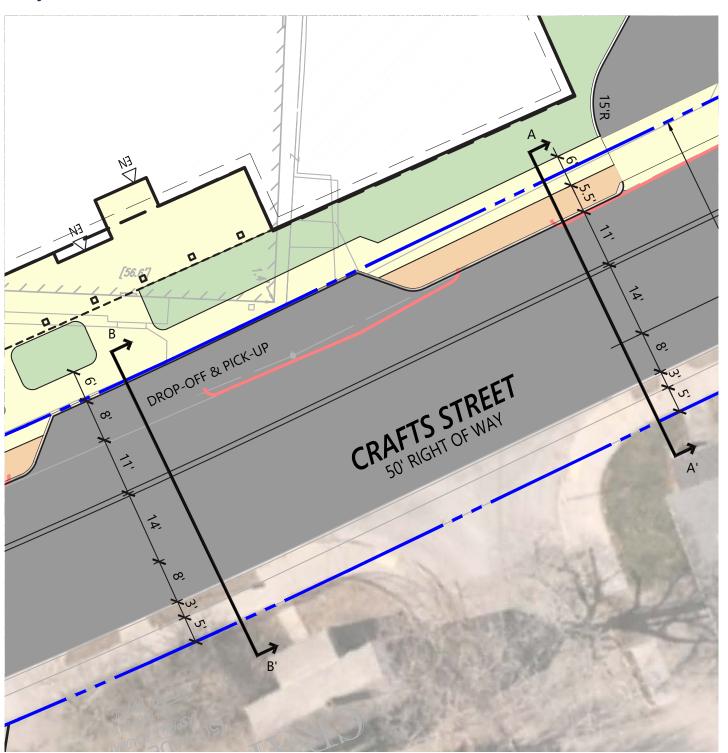
Originally Proposed

June 16, 2022



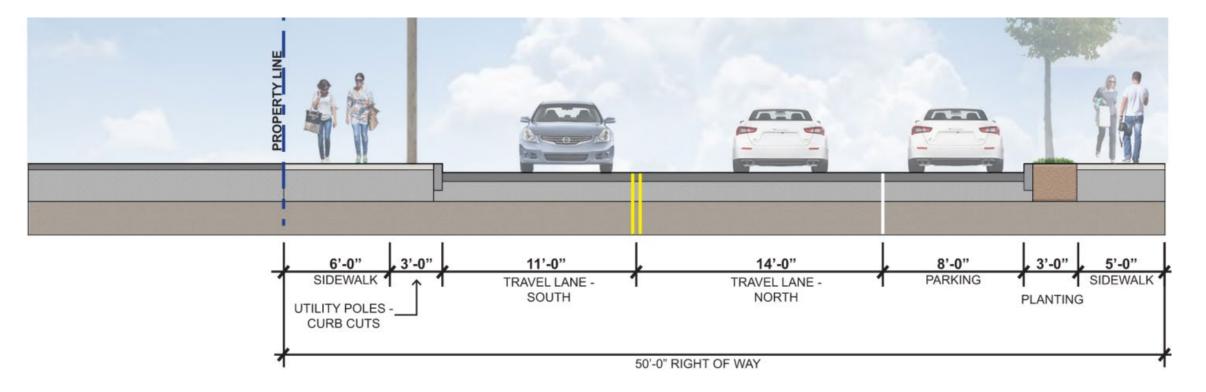
Revised Proposal

July 26, 2022

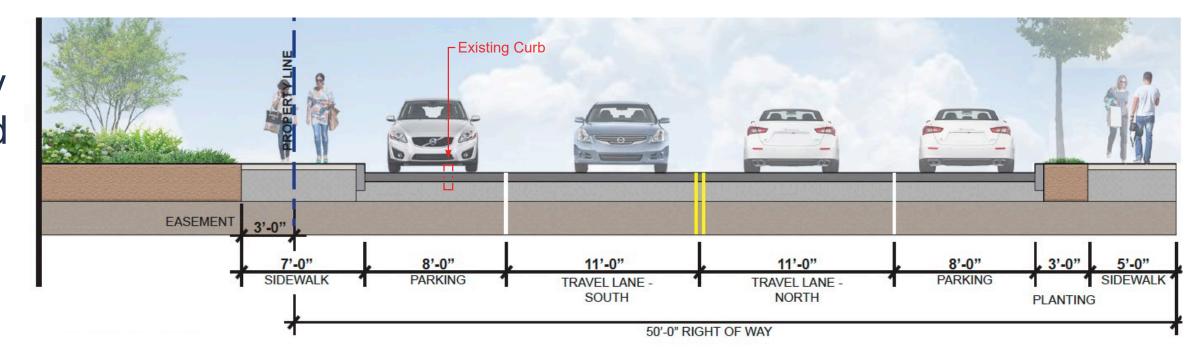


Crafts Street Section

Existing

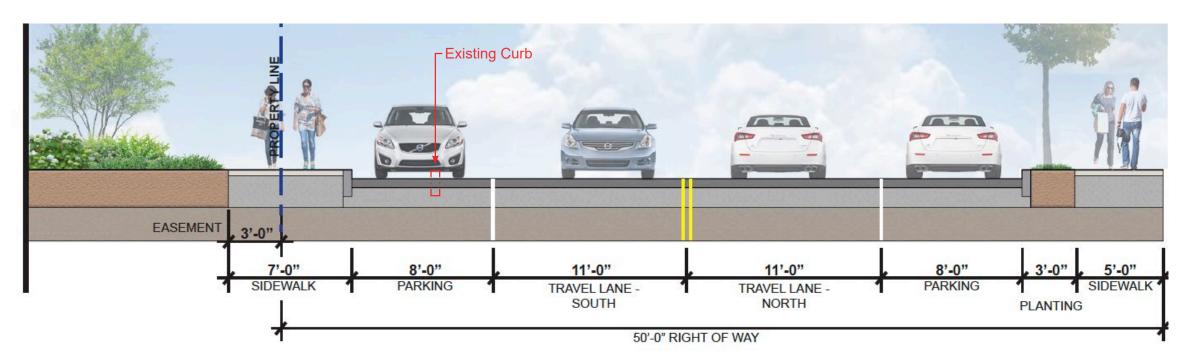


Originally
Proposed
with
Parking

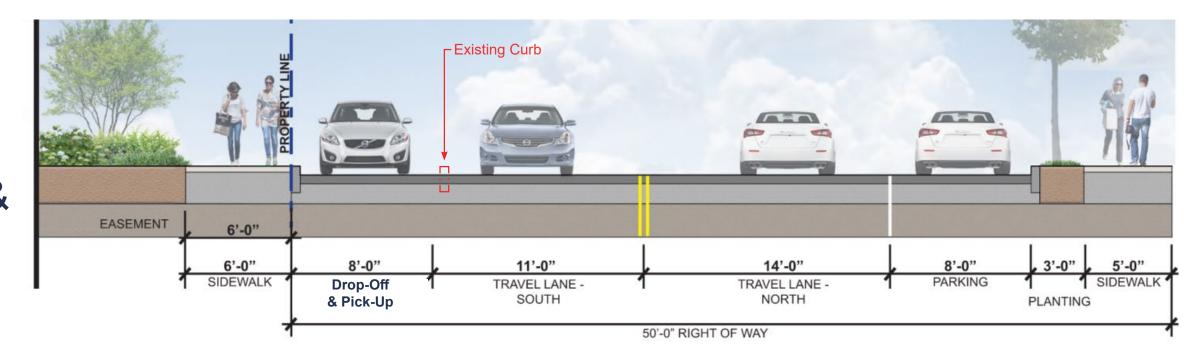


Crafts Street Section

Originally
Proposed
with
Parking



Revised
Proposal
with
Drop-Off &
Pick-Up



Traffic Study





Traffic Study Area







Project Program

Proposed Program 185 units:

- 105 units independent living
- 52 units assisted living
- 28 units memory care



Traffic Generation

Table 3 Net New Site-Generated Vehicle Trips

	Existing Site Trips a	Proposed Trips b	Net New Trips
Weekday Daily ^c			
Enter	n/a	307	n/a
<u>Exit</u>	<u>n/a</u>	<u>307</u>	<u>n/a</u>
Total	n/a	614	n/a
Weekday Morning			
Enter	19	30	+11
<u>Exit</u>	<u>9</u>	<u>16</u>	<u>+7</u>
Total	28	46	+18
Weekday Evening			
Enter	6	31	+25
<u>Exit</u>	<u>14</u>	<u>48</u>	<u>+34</u>
Total	20	79	+59

a Based-on traffic counts conducted by VHB in February 2022, as presented in Table 3 of the April 2022 TIA.



Site is fully developed today; No credit for existing uses to be removed was taken in analysis of impacts.

b Trip Generation estimate based ITE LUC 255 (Continuing Care Retirement Community) based on regression equations for 185 units.

c Existing site-generated trips only counted during the weekday morning and evening peak hours.

City Hire Peer Review Firm

- City Hired BETA to review the updated transportation study
- We received initial comments on June 2, 2022
- We had a Zoom Meeting with City and Peer Consultant to discuss
- VHB has provided written response to the peer comments on June 6, 2022
- Comments were generally minor in nature and we believe they have been fully addressed

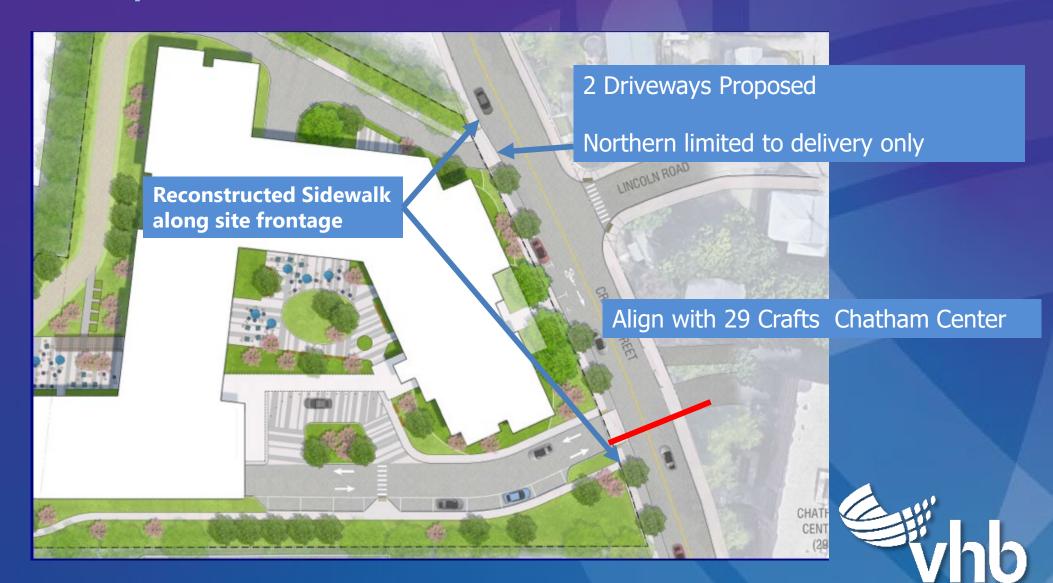


Redevelopment Access Consolidation





Redevelopment Access Consolidation



Parking Demand Study





	Parking Spaces
RESIDENTS Independent Living	55
VISITORS AND OUTSIDE CAREGIVERS	41
STAFF (Main Shift)	48
Total	144*

^{*} All parking stalls are 9 FT wide.



Number of Employees

STAFF POSITIONS	(7AM-4PM)	(4PM-12AM)	(12AM-7AM)
Executive Director	1	0	0
Business Manager	1	0	0
Business Manager Assistants	2	0	0
Human Resource Manager	1	0	0
Marketing	2	0	0
Receptionist	1	1	1
Wellness/Fitness	2	0	0
Food Service	10	4	6
Maintenance Director	1	0	0
Maintenance Support	1	1	1
Housekeeping	5	1	1
AL Kitchen Support	4	0	1
MC Kitchen Support	4	0	1
Director of Nursing	1	0	0
Director of Memory Care	1	0	0
Caregivers	9	7	6
Miscellaneous	2	1	1
Subtotal	48	15	18

Source: SRG, based on comparable built projects.





Parking Demand

	RESIDENTS	VISITORS + CAREGIVERS	STAFF	TOTAL
12:00 AM	55	8	30 *	93
12:30 AM	55	8	18	81
1:00 AM	55	8	18	81
1:30 AM	55	8	18	81
2:00 AM	55	8	18	81
2:30 AM	55	8	18	81
3:00 AM	55	8	18	81
3:30 AM	55	8	18	81
4:00 AM	55	8	18	81
4:30 AM	55	8	18	81
5:00 AM	55	8	18	81
5:30 AM	55	8	18	81
6:00 AM	55	13	18	86
6:30 AM	55	18	18	91
7:00 AM	55	21	59 *	135
7:30 AM	55	24	48	127
8:00 AM	55	25	48	128
8:30 AM	52	26	48	126
9:00 AM	48	27	48	123
9:30 AM	45	29	48	122
10:00 AM	44	33	48	125
10:30 AM	44	37	48	129
11:00 AM	44	39	48	131
11:30 AM	44	41	48	133

	RESIDENTS	VISITORS + CAREGIVERS	STAFF	TOTAL
12:00 PM	44	41	48	133
12:30 PM	44	41	48	133
1:00 PM	44	41	48	133
1:30 PM	44	41	48	133
2:00 PM	44	41	48	133
2:30 PM	45	39	48	132
3:00 PM	46	37	48	131
3:30 PM	47	34	48	129
4:00 PM	48	33	57 *	138
4:30 PM	50	32	15	97
5:00 PM	52	31	15	98
5:30 PM	53	31	15	99
6:00 PM	54	31	15	100
6:30 PM	55	29	15	99
7:00 PM	55	29	15	99
7:30 PM	55	27	15	97
8:00 PM	55	21	15	91
8:30 PM	55	19	15	89
9:00 PM	55	17	15	87
9:30 PM	55	10	15	80
10:00 PM	55	8	15	78
10:30 PM	55	8	15	78
11:00 PM	55	8	15	78
11:30 PM	55	8	15	78

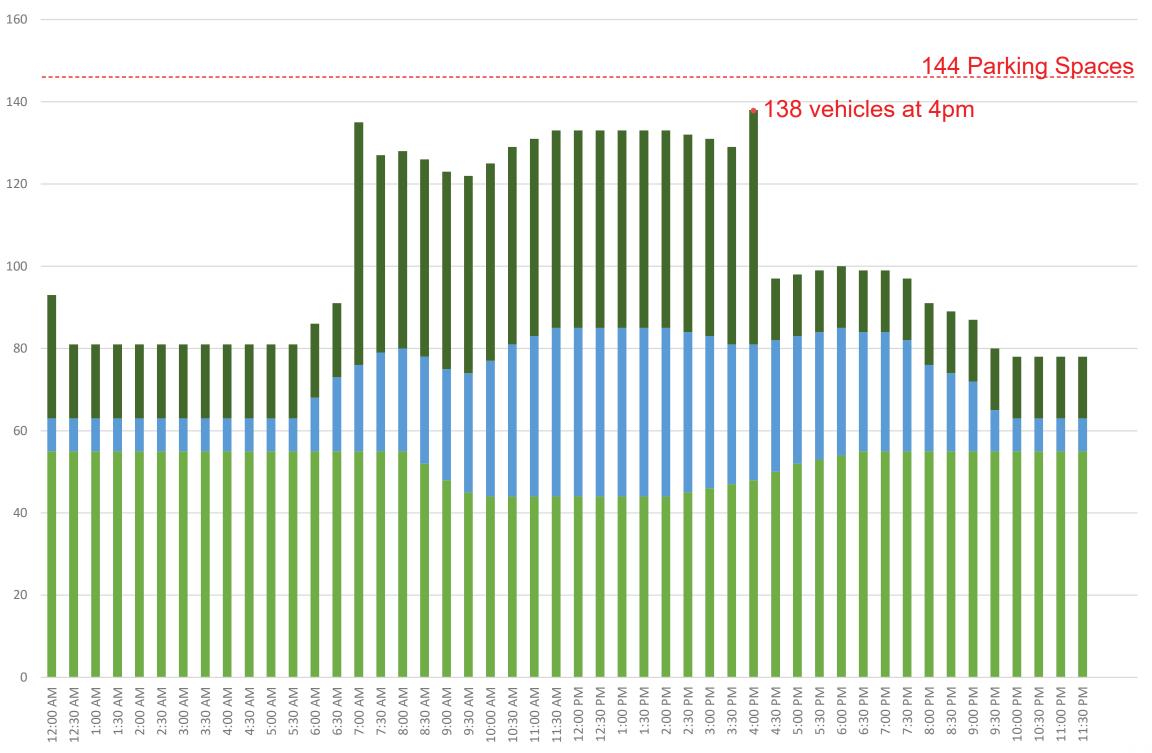




^{*}Employee shift changes happen at 7AM, 4PM, and 12AM.

^{**}Source: SRG, based on comparable built projects.

Parking Demand







■ RESIDENTS





Transportation Demand Management (TDM)





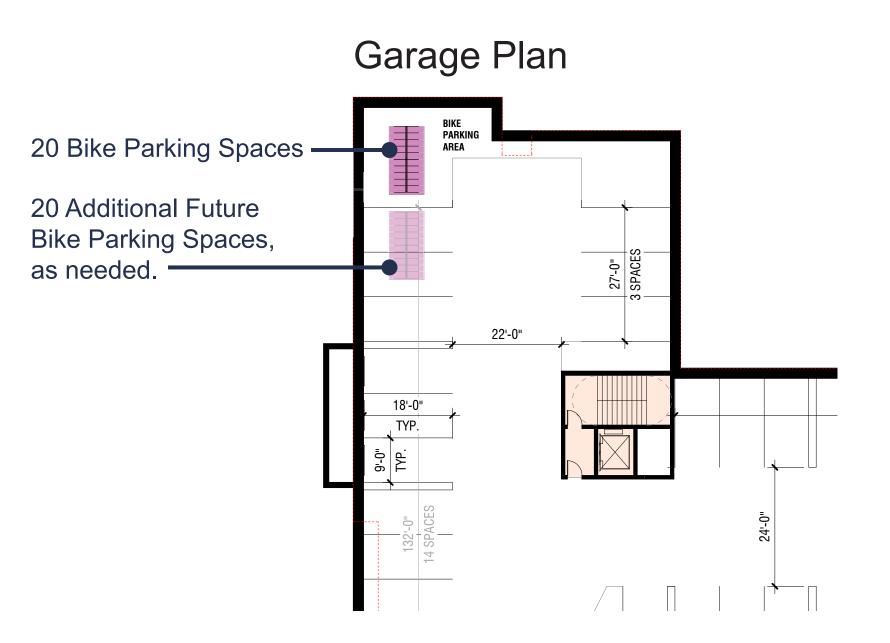
Transportation Demand Management (TDM)

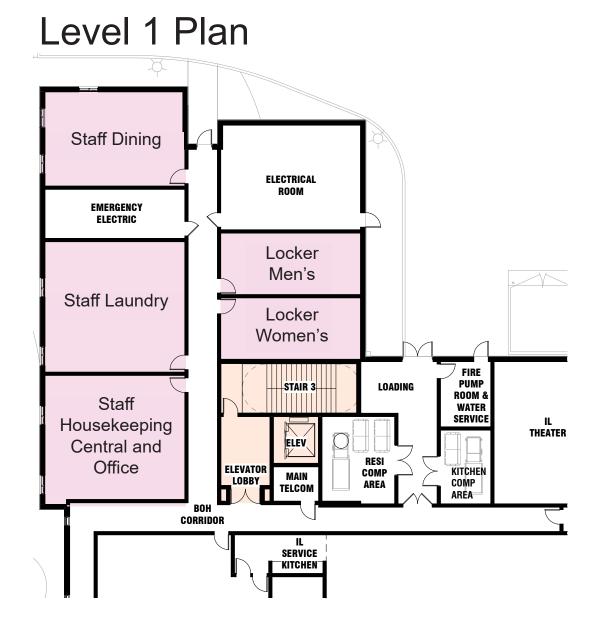
- \$60k contribution to TDM measures as determined by the Planning Department,
 which may include a bus shelter, transit, biking or other measures
- On-Site Shuttle
- Parking (Market Rate, Unbundled)
- Car Share Ready (Space(s) On-Site)
- On-Site TDM Coordinator/TMA Membership
- Bike Parking (approx. double zoning requirement) with Indoor Bike Fix-it Station for Residents
- Bike Shower/Locker





Interior Bicycle Parking









Exterior Bicycle Parking





