BELMONT HIGH SCHOOL

BUILDING COMMITTEE MEETING

AGENDA

- **01** / Traffic Studies
- **02** / Site Strategies
- 03 / Program Analysis
- **04** / BHS Existing Floor Plans

01/ TRAFFIC STUDIES

BELMONT HIGH SCHOOL

TRANSPORTATION ACCESS: EXISTING CONDITIONS PROCESS

Multimodal Site Access Observations

Traffic Counts: 24 hour, Turning Movements

Parking Inventory and Utilization

Walking, Biking, Transit Inventory and Observations

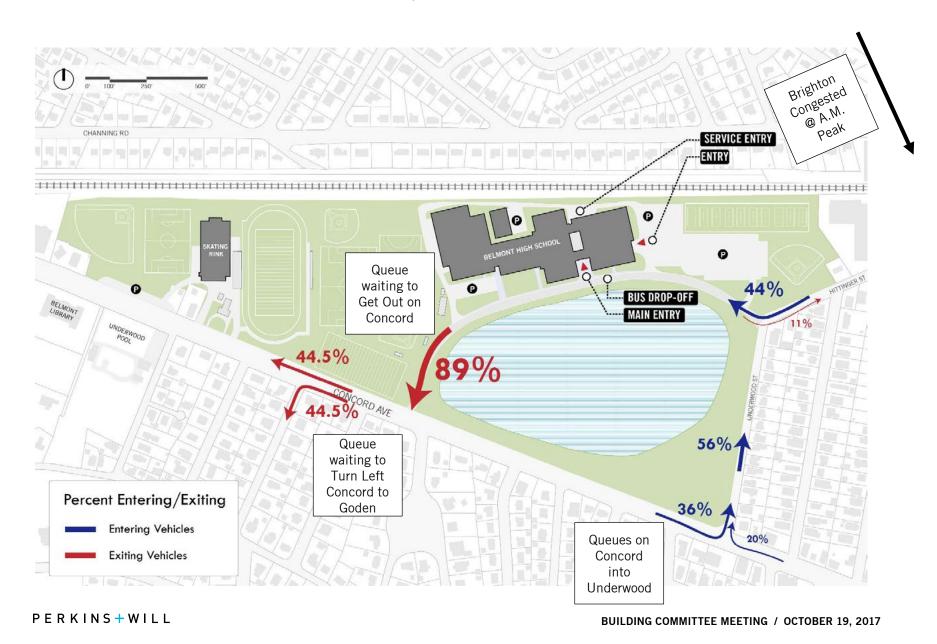
Existing Traffic Performance Analysis

Crash Data Analysis

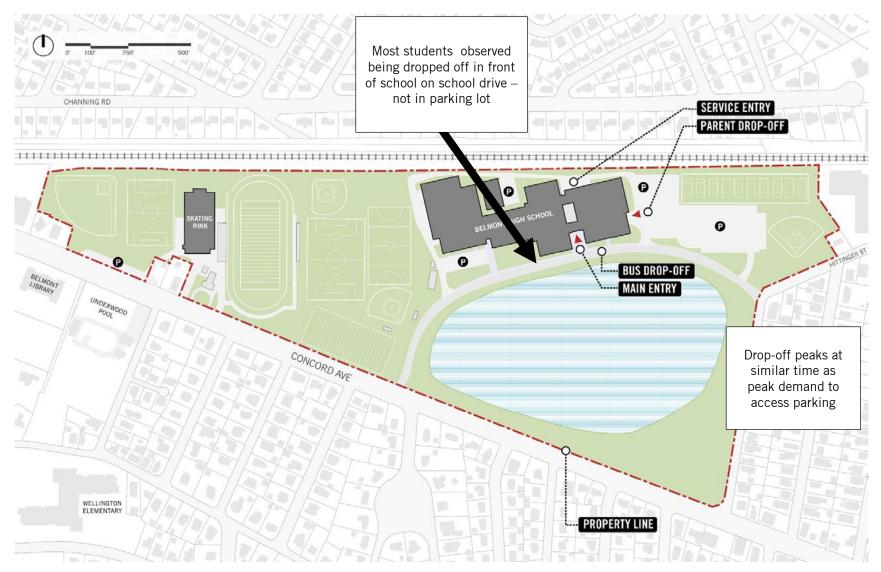




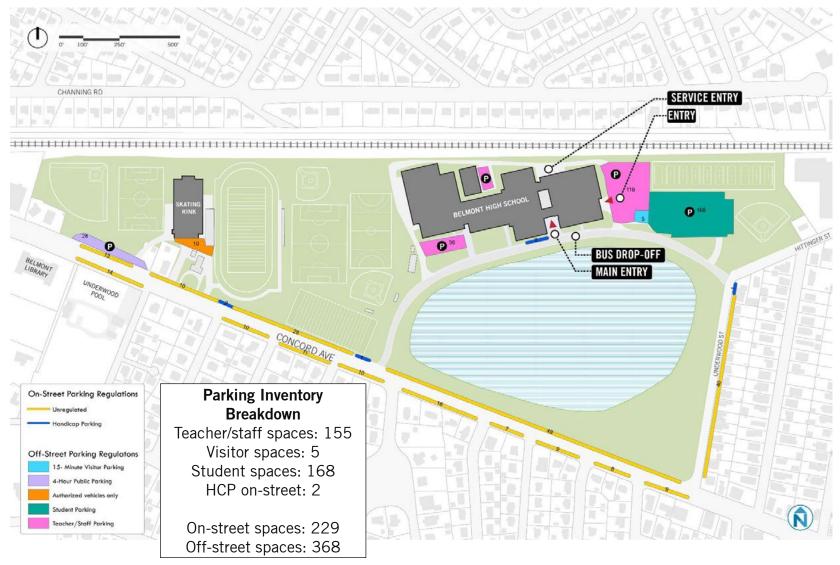
MORNING ACCESS DEMAND PATTERNS AND QUEUES



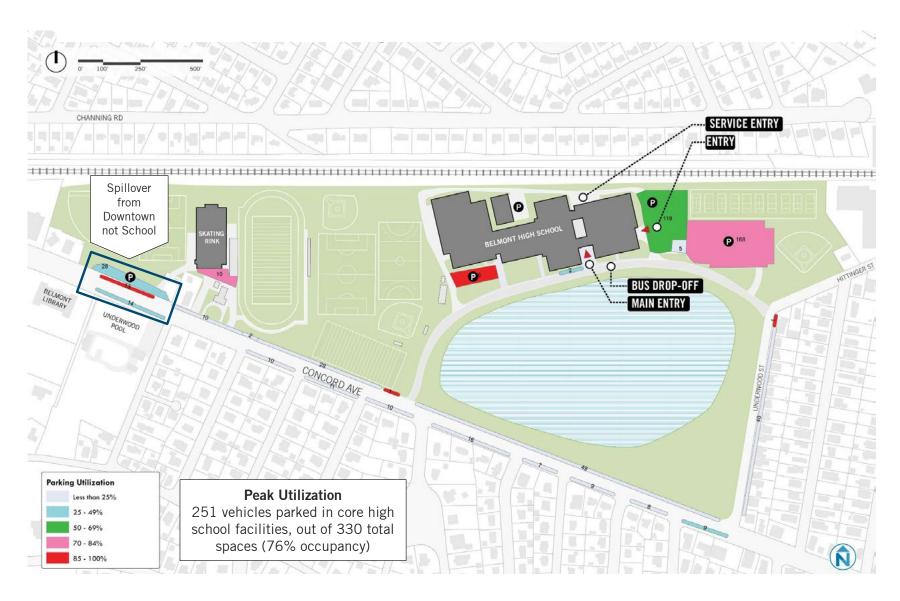
MORNING DROP-OFF PATTERNS: $\sim 7:18-7:38=MOST$ CONGESTED AT UNDERWOOD & HITTINGER (OVERALL AM TRAFFIC PEAK = 7:15-8:15AM)



PARKING SUPPLY: 330 SPACES IN CORE CAMPUS



10AM WEEKDAY PARKING DEMAND SNAPSHOT



BUSES OCCUPY EAST END OF STUDENT PARKING SUPPLY





BIKING AND WALKING ACCESS PATTERNS



BIKE RACKS ALL OVER CAMPUS FULL ON SEPTEMBER MORNINGS









4 MBTA TRANSIT ROUTES OPERATE IN WALKING DISTANCE TO CAMPUS



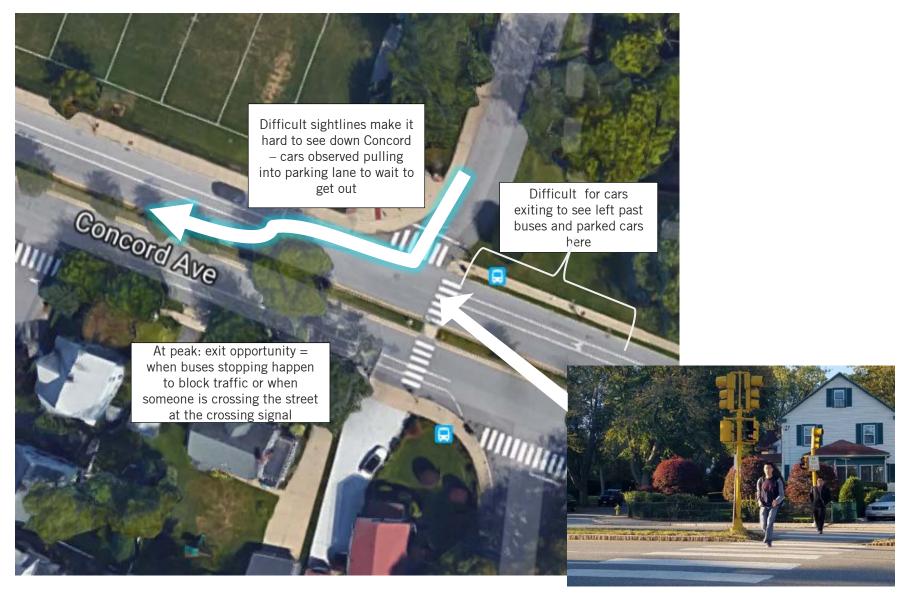
OVERVIEW: AM LEVEL OF SERVICE



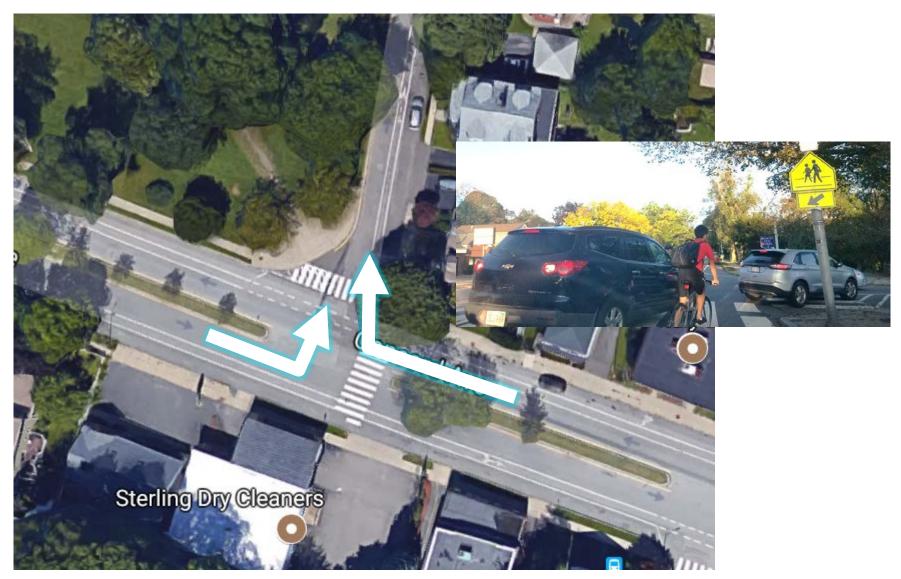
OVERVIEW: PM LEVEL OF SERVICE



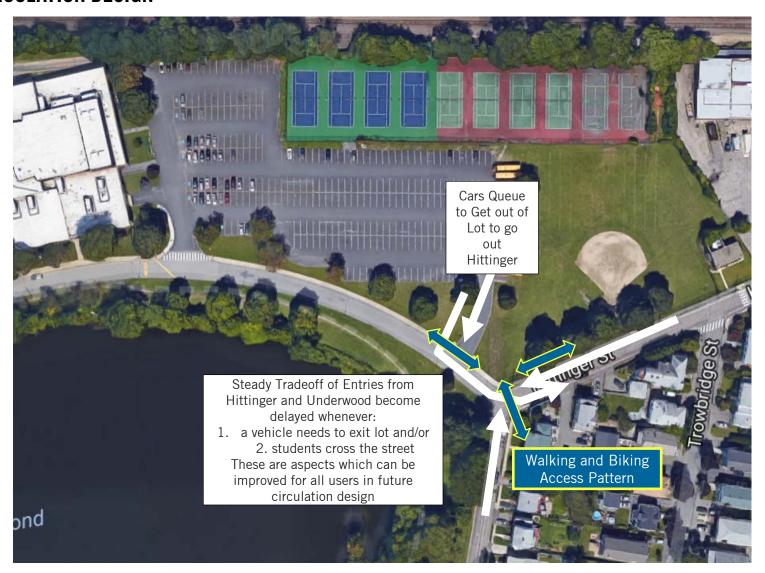
SIGHTLINE ISSUES FOR EXITING SCHOOL DRIVE TO CONCORD



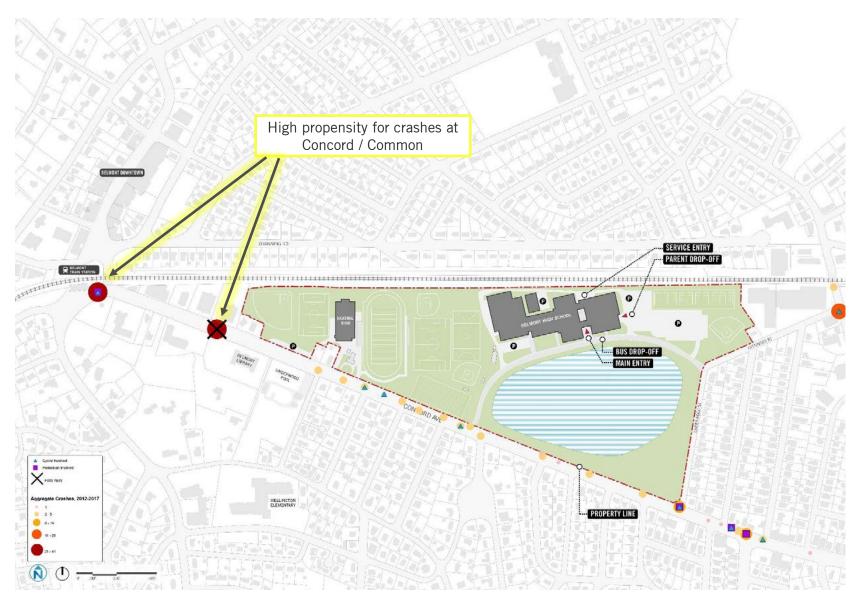
VEHICULAR DELAYS ON CONCORD AT UNDERWOOD FROM LEFT AND RIGHT TURN MOVEMENTS TAKING TURNS + CONFLICTS OBSERVED INCREASING WHEN STUDENTS BIKE OR CROSS AT CROSSWALK



DELAYS ON HITTINGER AND UNDERWOOD DUE LARGELY TO CURRENT INTERSECTION AND CIRCULATION DESIGN



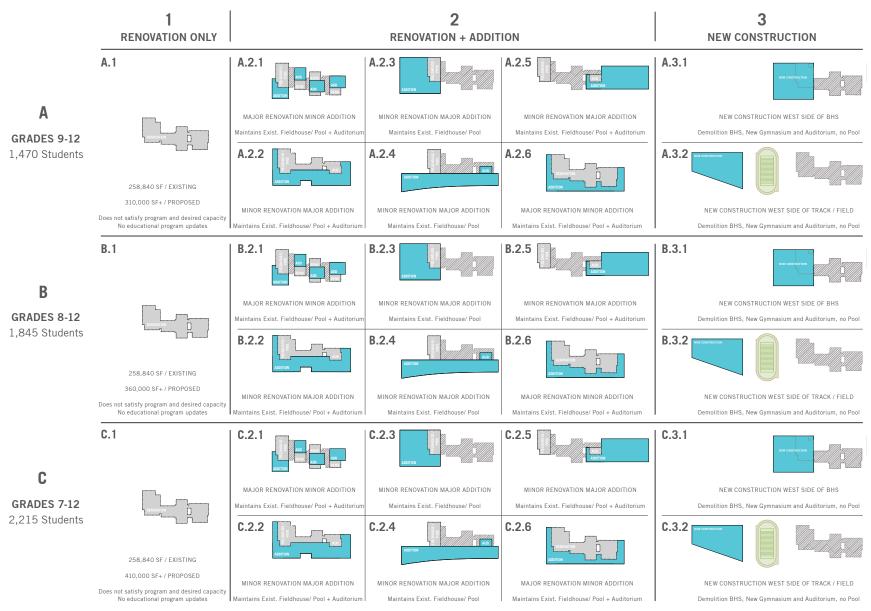
VEHICLE CRASH LOCATIONS: 2012-2017



02/ SITE STRATEGIES

BELMONT HIGH SCHOOL

PROPOSED BUILDING CONFIGURATION MATRIX



RENOVATION / A.1, B.1, C.1



RENOVATION AND ADDITION / C.2.1 GRADES 7-12

3 Stories with Construction Over Existing



RENOVATION AND ADDITION / C.2.2 GRADES 7-12

4 Stories with Partial Demolition



RENOVATION AND ADDITION / C.2.3 GRADES 7-12

4 Stories with Single Phased



RENOVATION AND ADDITION / C.2.4 GRADES 7-12

4 Stories with Phased Integration of 7-8



RENOVATION AND ADDITION / C.2.5 GRADES 7-12

4 Stories with Separate Field House and Phased Public Space



NEW CONSTRUCTION / C.3.1 GRADES 7-12

4 Stories



NEW CONSTRUCTION / C.3.2 GRADES 7-12

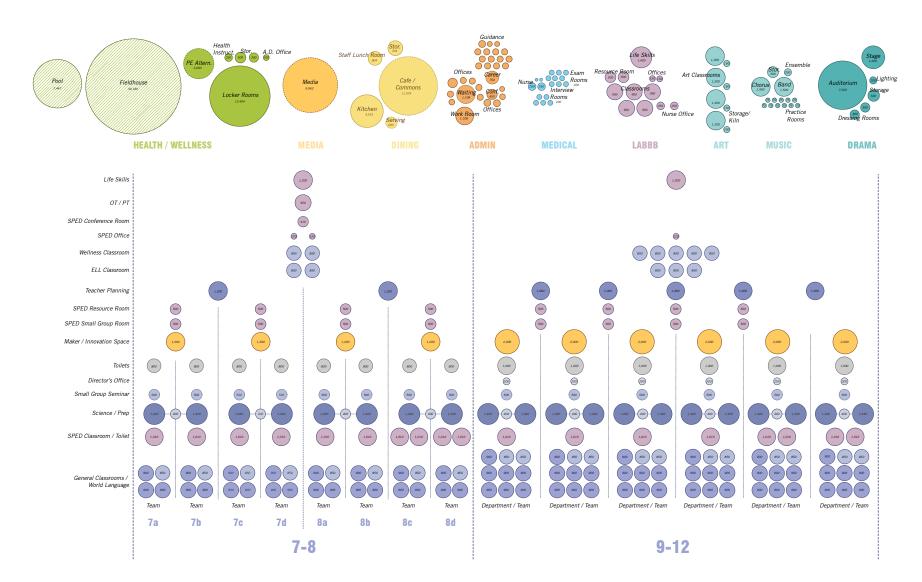
4 Stories with Relocated Rink and Harris Field



03/ PROGRAM ANALYSIS

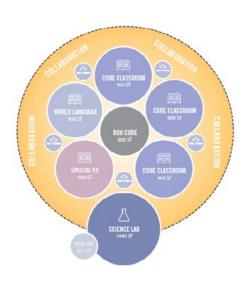
BELMONT HIGH SCHOOL

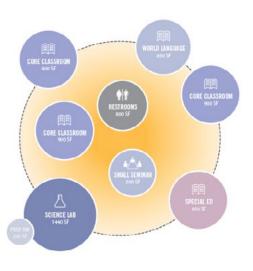
BELMONT HIGH SCHOOL / PROGRAM TREE



BELMONT HIGH SCHOOL / TEAM CONFIGURATION IDEAS







CENTRALIZED

EXTERNAL

HYBRID