



ARROWSTREET

# LINCOLN-ELIOT ELEMENTARY SCHOOL

SCHOOL BUILDING COMMITTEE &  
DESIGN REVIEW COMMITTEE MEETING

NEWTON, MA

8 MARCH 2022

DRC: 16 MARCH 2022

PREPARED FOR



David Fleishman,  
Superintendent



Ruthanne Fuller,  
Mayor

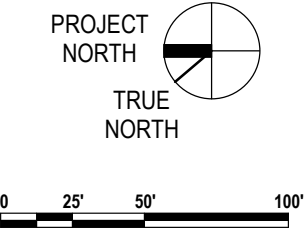
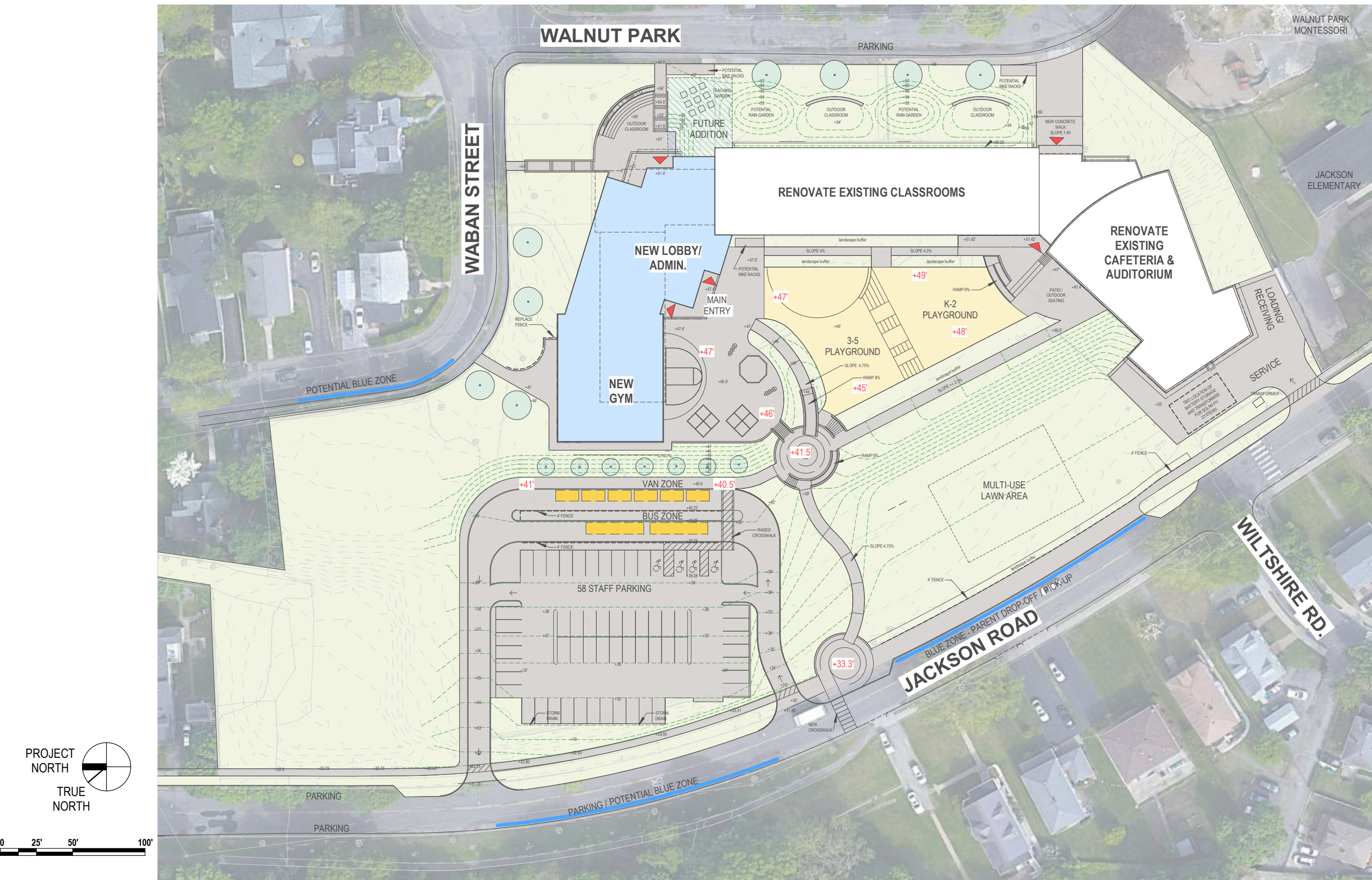


## AGENDA /

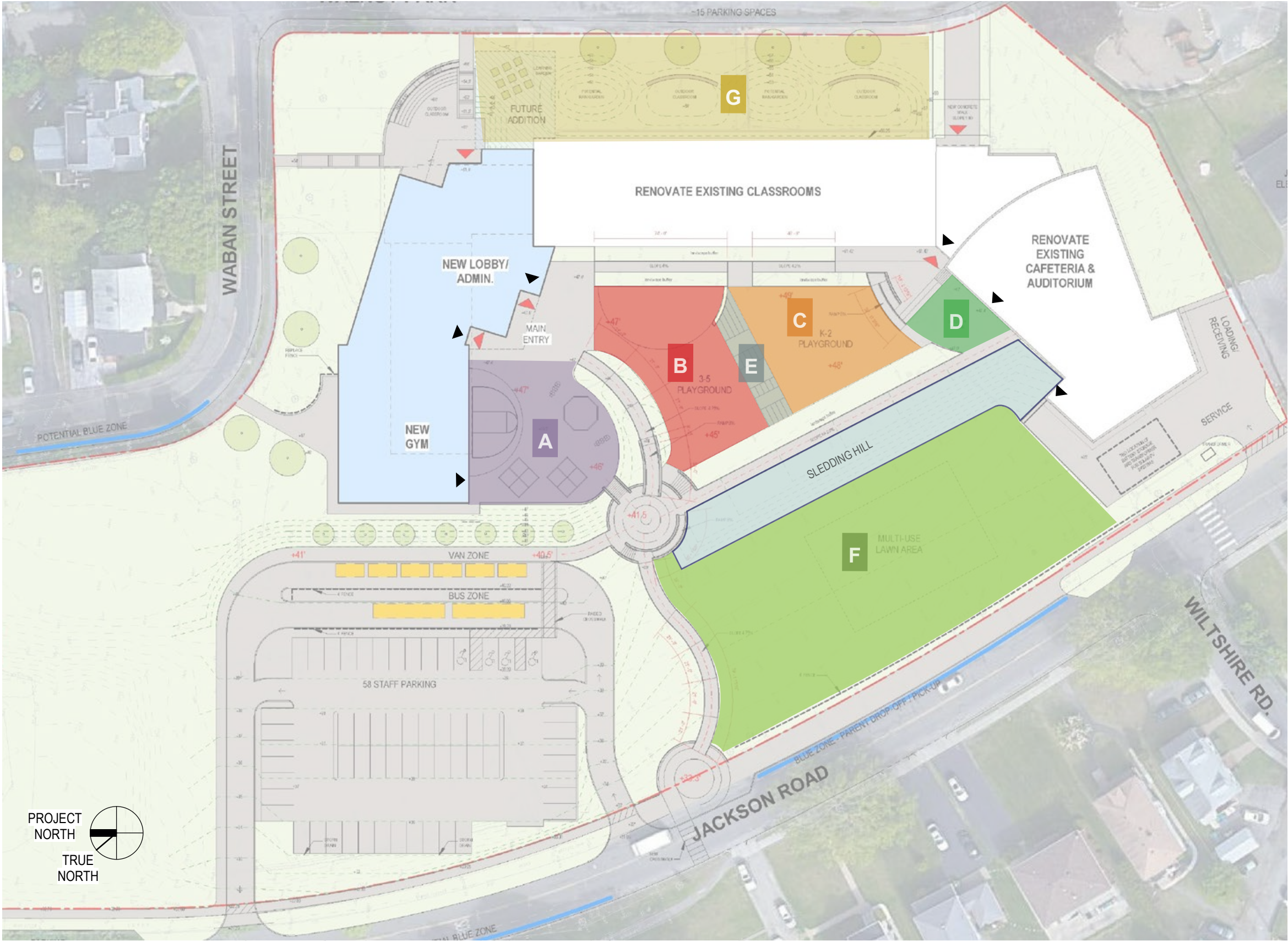
- 1 SITE DESIGN UPDATE
- 2 TRAFFIC CONCEPT PLAN
- 3 BUILDING DESIGN UPDATE
- 4 SUSTAINABILITY UPDATE

# SITE DESIGN UPDATE

SITE DESIGN / UPDATE



SITE DESIGN / OUTDOOR PROGRAMS



A BALL SPORTS



B 3-5 PLAYGROUND



C K-2 PLAYGROUND



D PATIO | OUTDOOR SEATING



E SLOPE PLAY



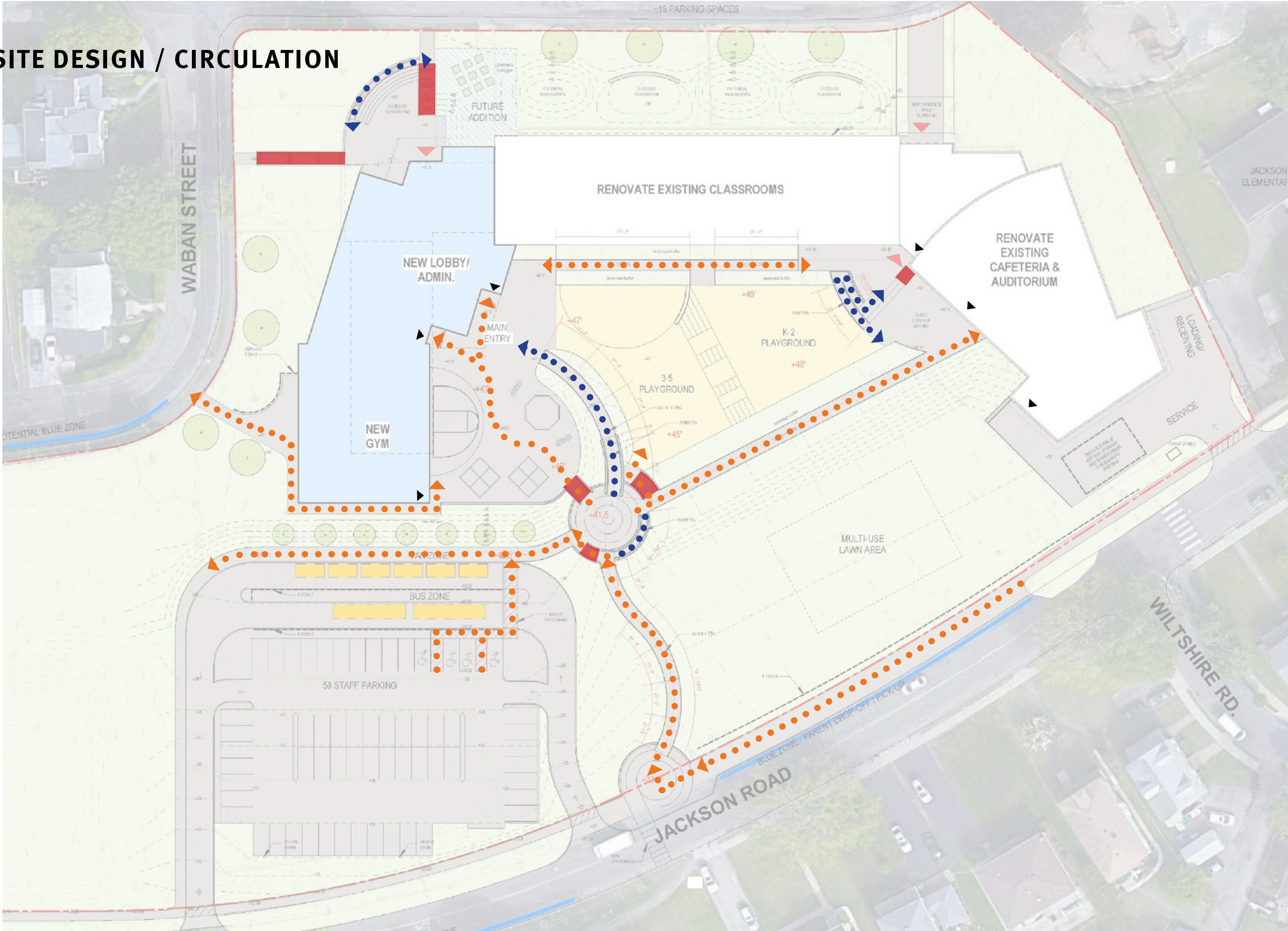
F MULTI-USE LAWN AREA



G OUTDOOR CLASSROOM

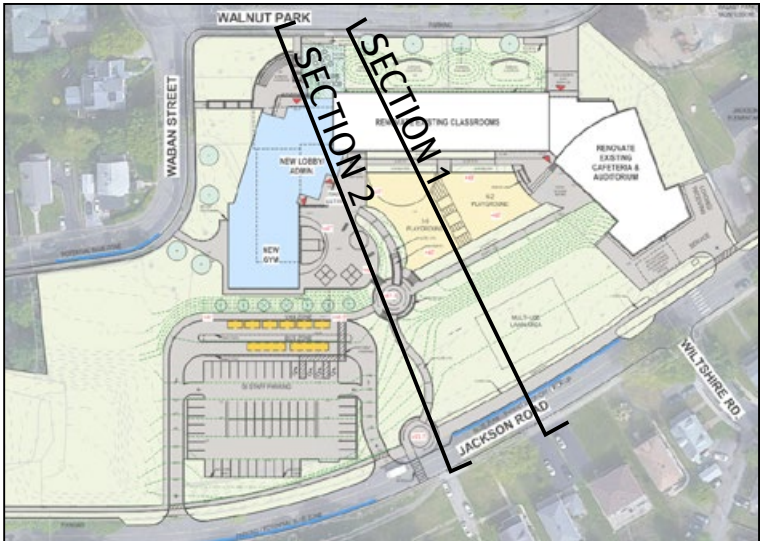


SITE DESIGN / CIRCULATION



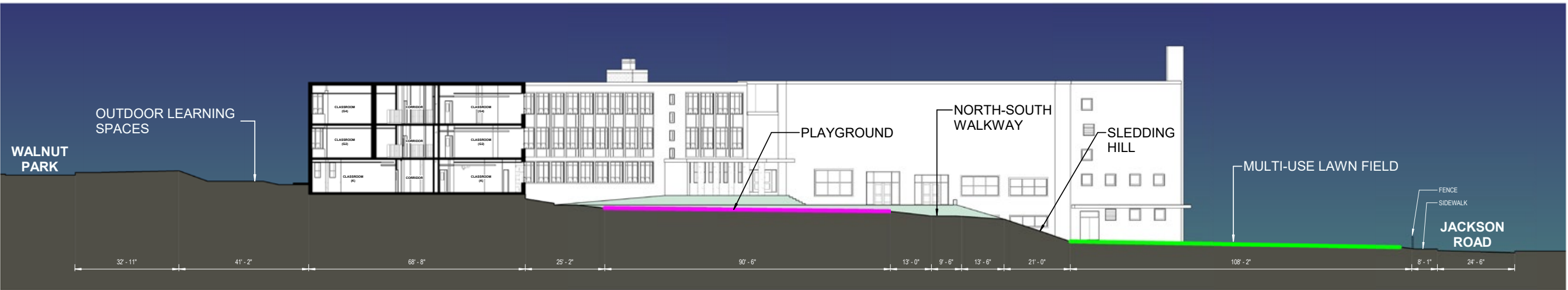
# SITE SECTIONS

## EXISTING AND NEW



1 SITE SECTION 1 - EXISTING

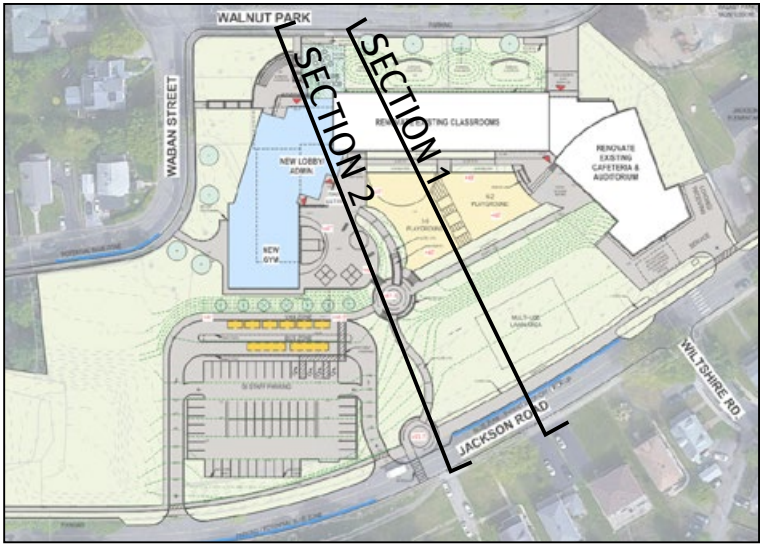
1/16" = 1'-0"



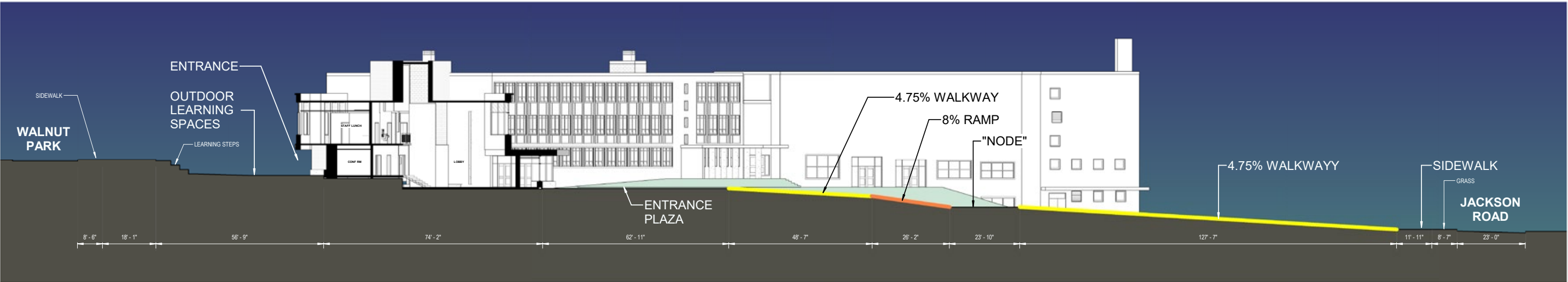
2 SITE SECTION 1 - NEW

1/16" = 1'-0"

# SITE SECTIONS EXISTING AND NEW

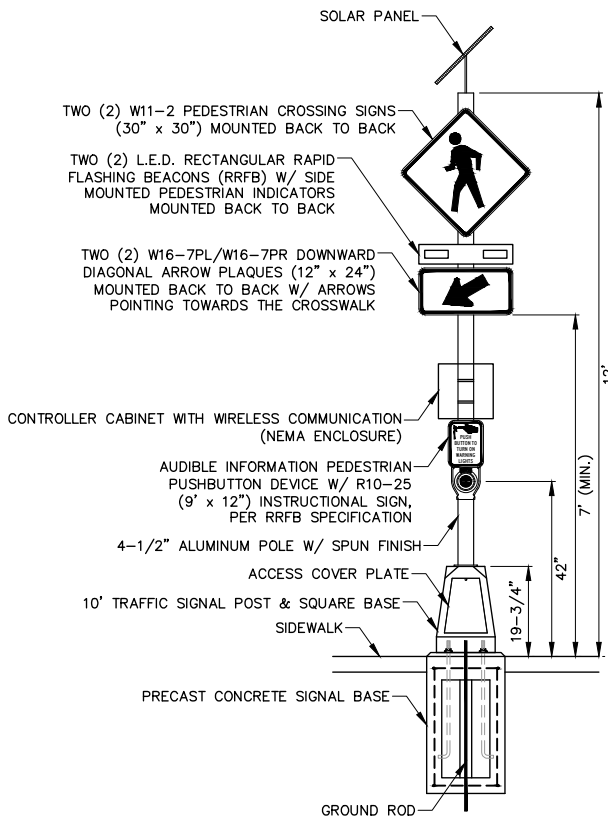
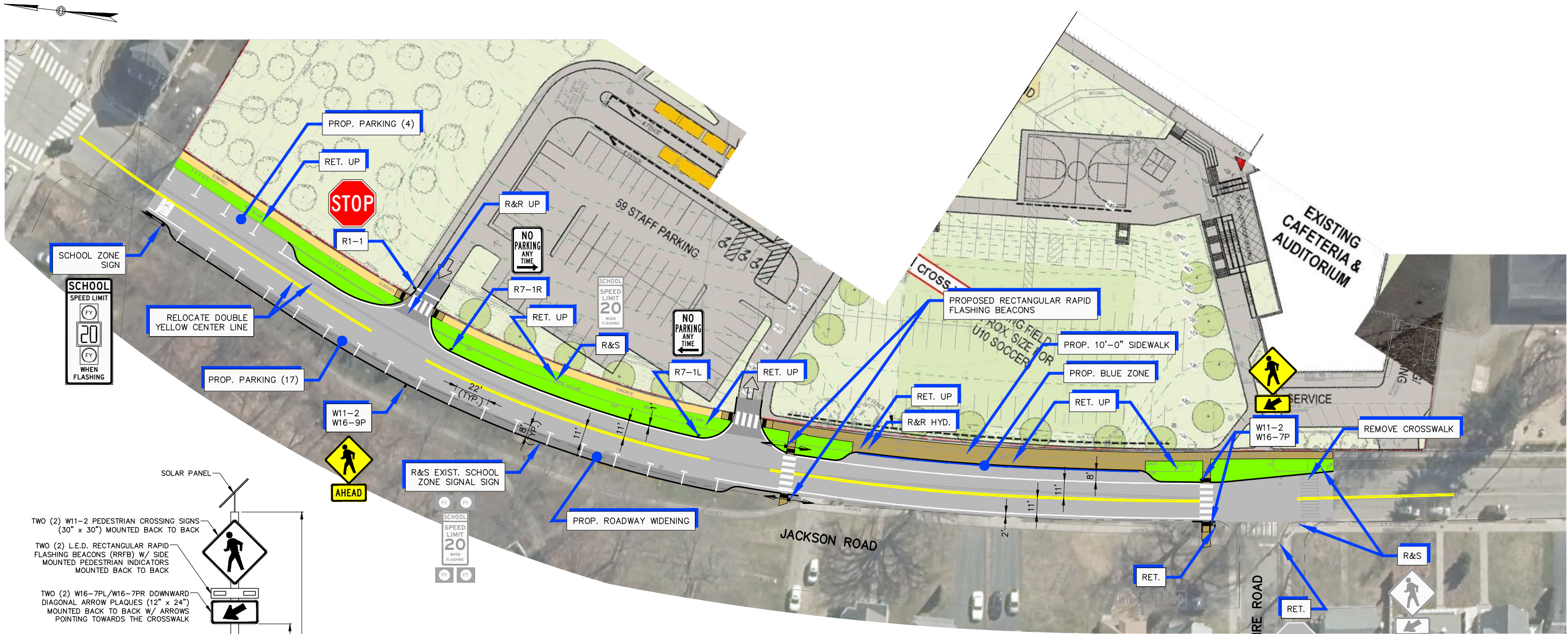


3 SITE SECTION 2 - EXISTING  
1/16" = 1'-0"

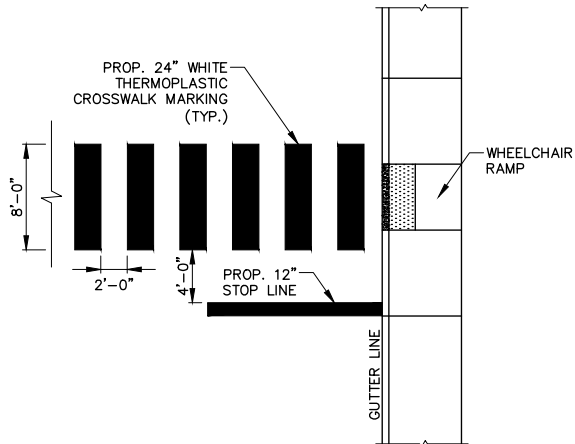


4 SITE SECTION 2 - NEW  
1/16" = 1'-0"

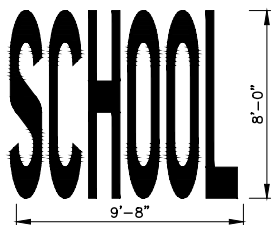
# TRAFFIC CONCEPT PLAN



DETAIL FOR RECTANGULAR RAPID FLASHING BEACON (RRFB) W/ SOLAR POWER SOURCE  
NOT TO SCALE

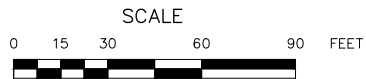


CROSSWALK PAVEMENT MARKING DETAIL  
NOT TO SCALE



NOTE: LEGEND = APPROX. 33 S.F. OF AREA

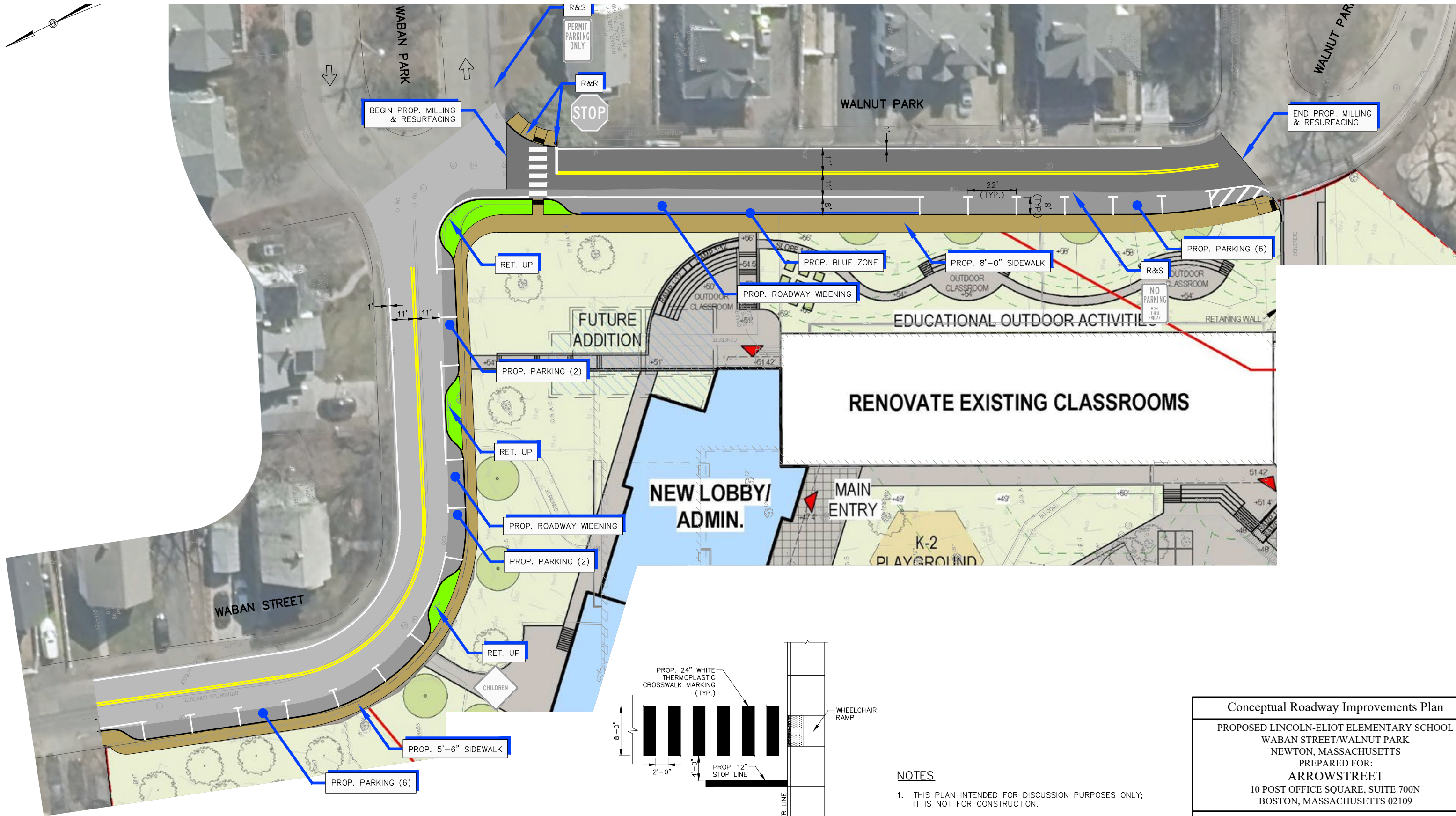
DETAIL FOR SCHOOL LEGEND  
NOT TO SCALE



#### NOTES

1. THIS PLAN INTENDED FOR DISCUSSION PURPOSES ONLY; IT IS NOT FOR CONSTRUCTION.
2. FINAL DESIGN IS SUBJECT TO FIELD SURVEY BY OTHERS.
3. PROPERTY LINES AND ACCESS LINE LOCATIONS ARE APPROXIMATE ONLY AND ARE SUBJECT TO DEED AND TITLE RECORDS.
4. BASE PLAN SOURCE: NITSCH ENGINEERING.

| Conceptual Roadway Improvements Plan                                                                                                                                                  |                                          |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------|
| PROPOSED LINCOLN-ELIOT ELEMENTARY SCHOOL<br>JACKSON ROAD<br>NEWTON, MASSACHUSETTS<br>PREPARED FOR:<br>ARROWSTREET<br>10 POST OFFICE SQUARE, SUITE 700N<br>BOSTON, MASSACHUSETTS 02109 |                                          |              |
| MDM TRANSPORTATION CONSULTANTS, INC.<br>PLANNERS & ENGINEERS<br>28 Lord Road, Suite 280<br>Marlborough, MA 01752<br>Tel: (508) 303-0370                                               |                                          |              |
| Project No. 1193                                                                                                                                                                      | File: 1193 Concept Plan (2022-02-25).dwg |              |
| Date: Feb. 25, 2022                                                                                                                                                                   | Scale: As Noted                          | Sheet 1 of 1 |



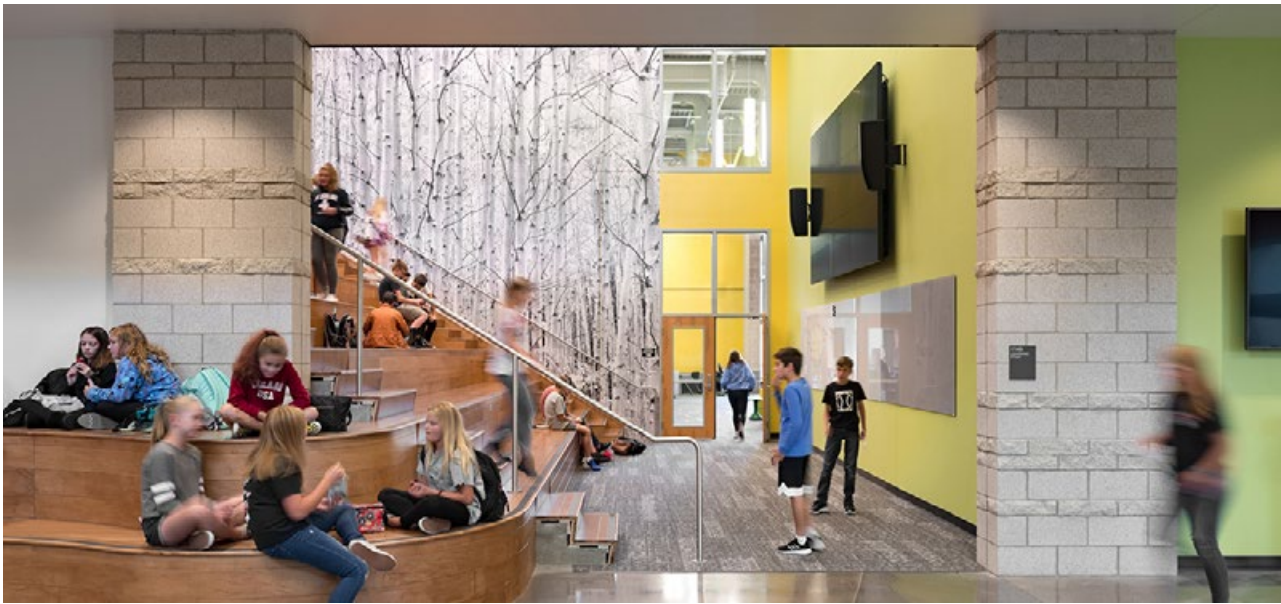
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| Conceptual Roadway Improvements Plan                                                                                                                                                              |                                          |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------|
| PROPOSED LINCOLN-ELIOT ELEMENTARY SCHOOL<br>WABAN STREET/WALNUT PARK<br>NEWTON, MASSACHUSETTS<br>PREPARED FOR:<br>ARROWSTREET<br>10 POST OFFICE SQUARE, SUITE 700N<br>BOSTON, MASSACHUSETTS 02109 |                                          |              |
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| Project No. 1193                                                                                                                                                                                  | File: 1193 Concept Plan (2022-02-25).dwg |              |
| Date: Feb. 25, 2022                                                                                                                                                                               | Scale: As Noted                          | Sheet 1 of 1 |

# BUILDING DESIGN UPDATE

**LOBBY DESIGN**  
PRECEDENT IMAGES



LOBBY & ADDITION  
UPDATE



LOBBY & ADDITION  
UPDATE



## LOBBY RENDERING UPDATE



**LOBBY/MEDIA CENTER RENDERING**  
UPDATE

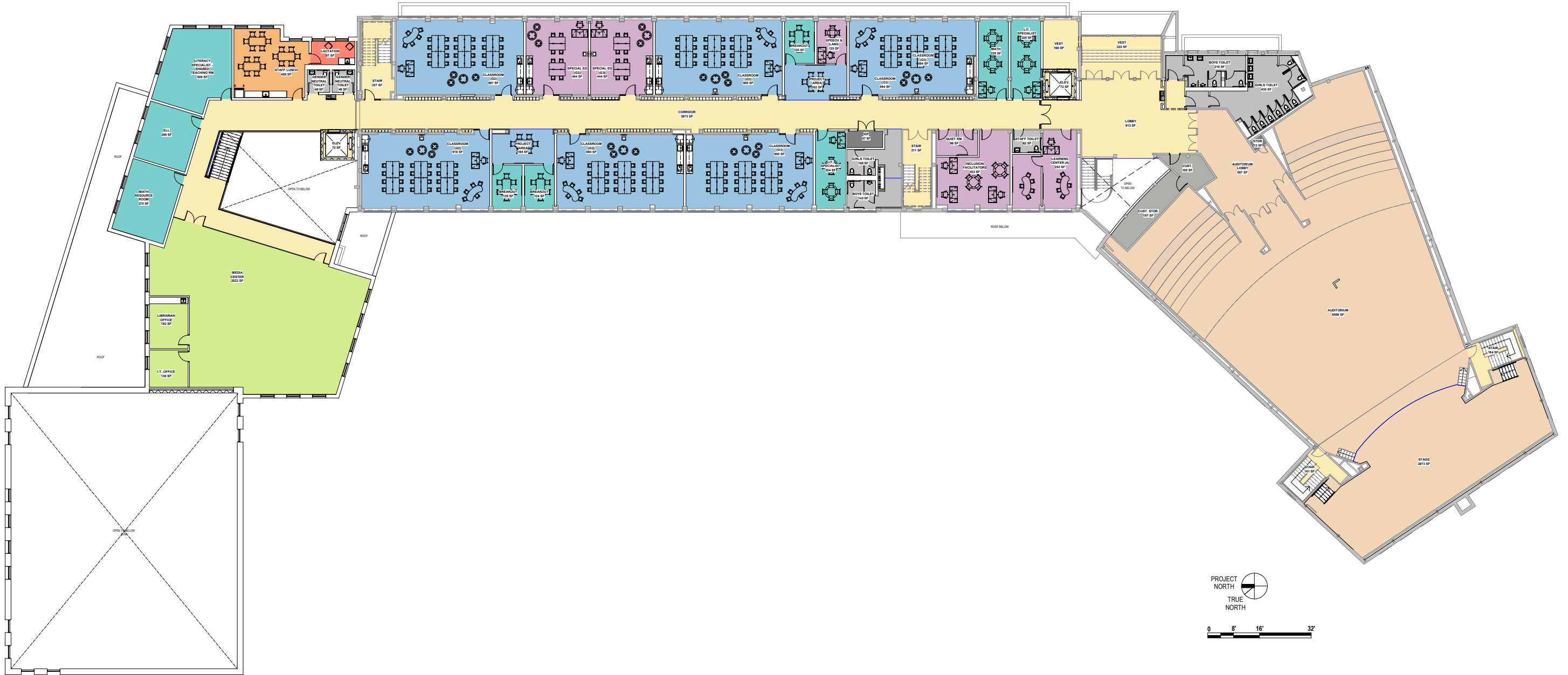


# FLOOR PLANS

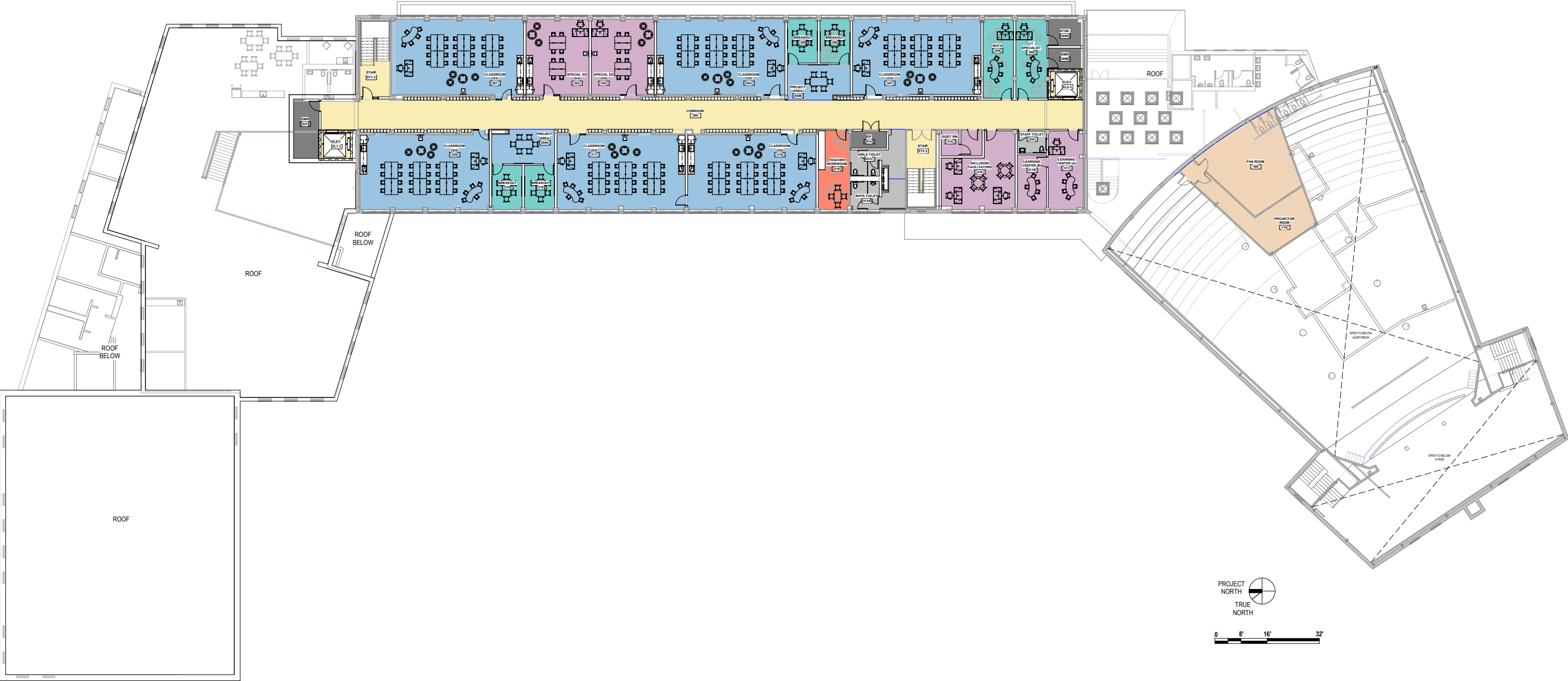
DESIGN UPDATES / DRAFT FIRST FLOOR PLAN



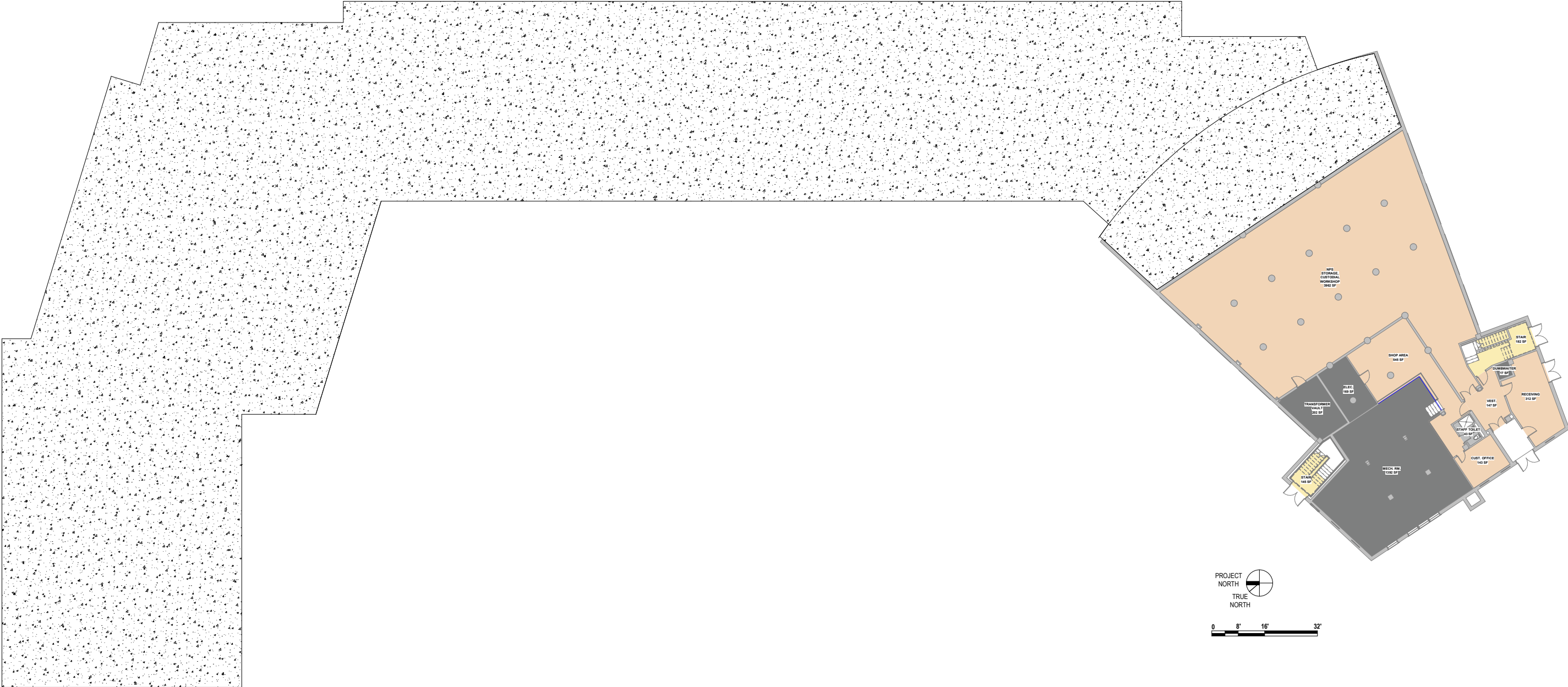
## DESIGN UPDATES / DRAFT SECOND FLOOR



DESIGN UPDATES / DRAFT THIRD FLOOR



DESIGN UPDATES / DRAFT BASEMENT FLOOR PLAN



# SUSTAINABILITY UPDATE

## SUSTAINABILITY UPDATES

- Reviewing 4 options for HVAC Systems with LCCA for each:

**Air Cooled Heat Pump Chiller &  
Electric Boiler**

**Displacement Ventilation**

**Ground Source Heat Pump**

**Displacement Ventilation**

**VRF**

**Overhead Ventilation**

**Hybrid Ground Source Heat  
Pump / VRF**

- Working with Eversource on potential MassSave Incentives.
- Solect Energy is providing preliminary PV capacity estimate for roof and parking canopy, and estimate for potential battery storage.
- EV Charging Stations is planned with separate service and separate meter. Working with Eversource for potential incentives.
- Embodied Carbon analysis is in progress
- LEED Checklist is in progress. Potential for LEED Silver.