



**ADVISORY DESIGN PANEL**  
District of North Vancouver

**HANDSWORTH SECONDARY SCHOOL**  
1044 Edgewood Road, North Vancouver



# CONTEXT










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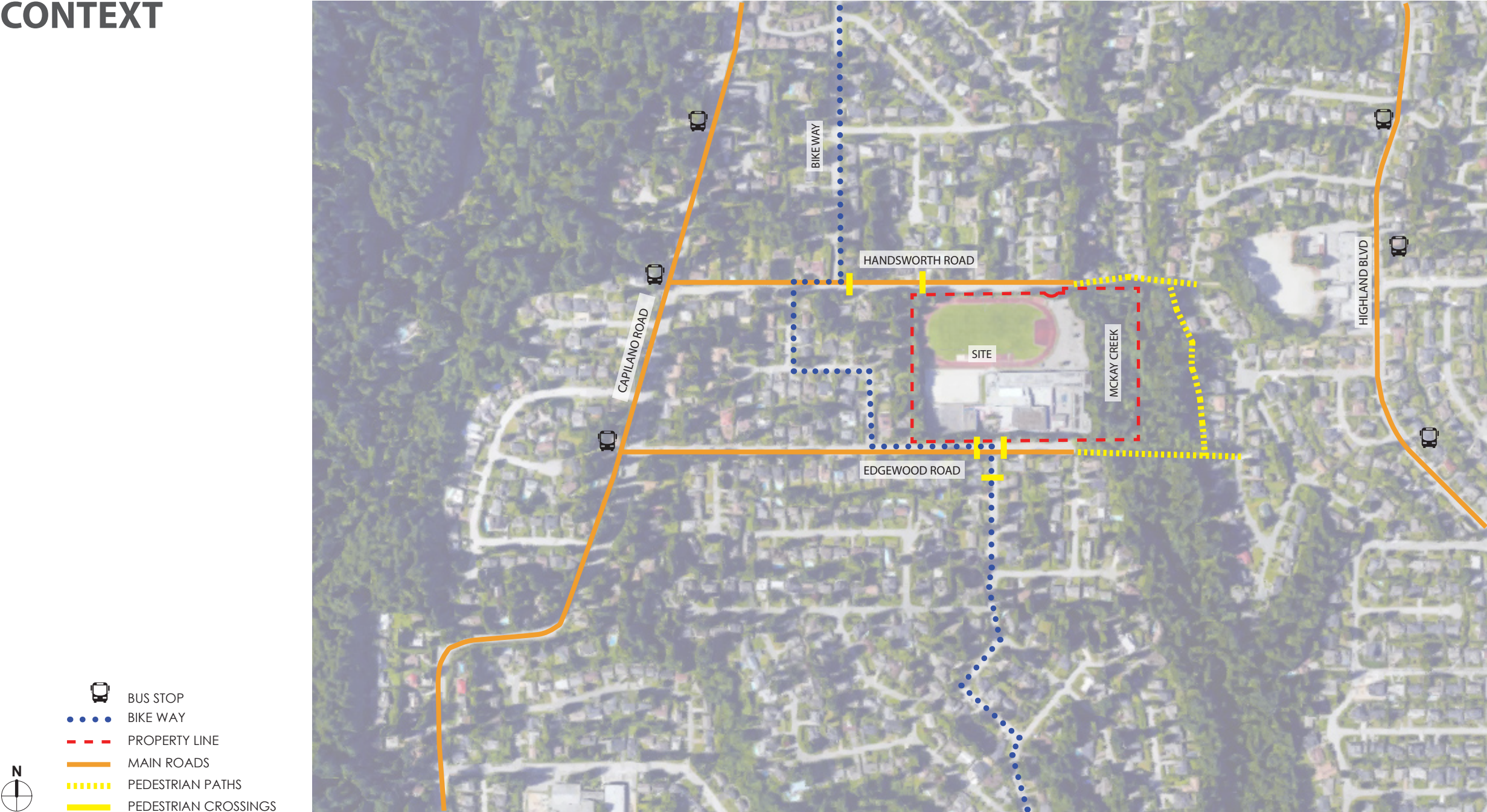


-  BUS STOP
-  PROPERTY LINE
-  MAIN ROADS
-  PEDESTRIAN PATHS
-  PEDESTRIAN CROSSINGS

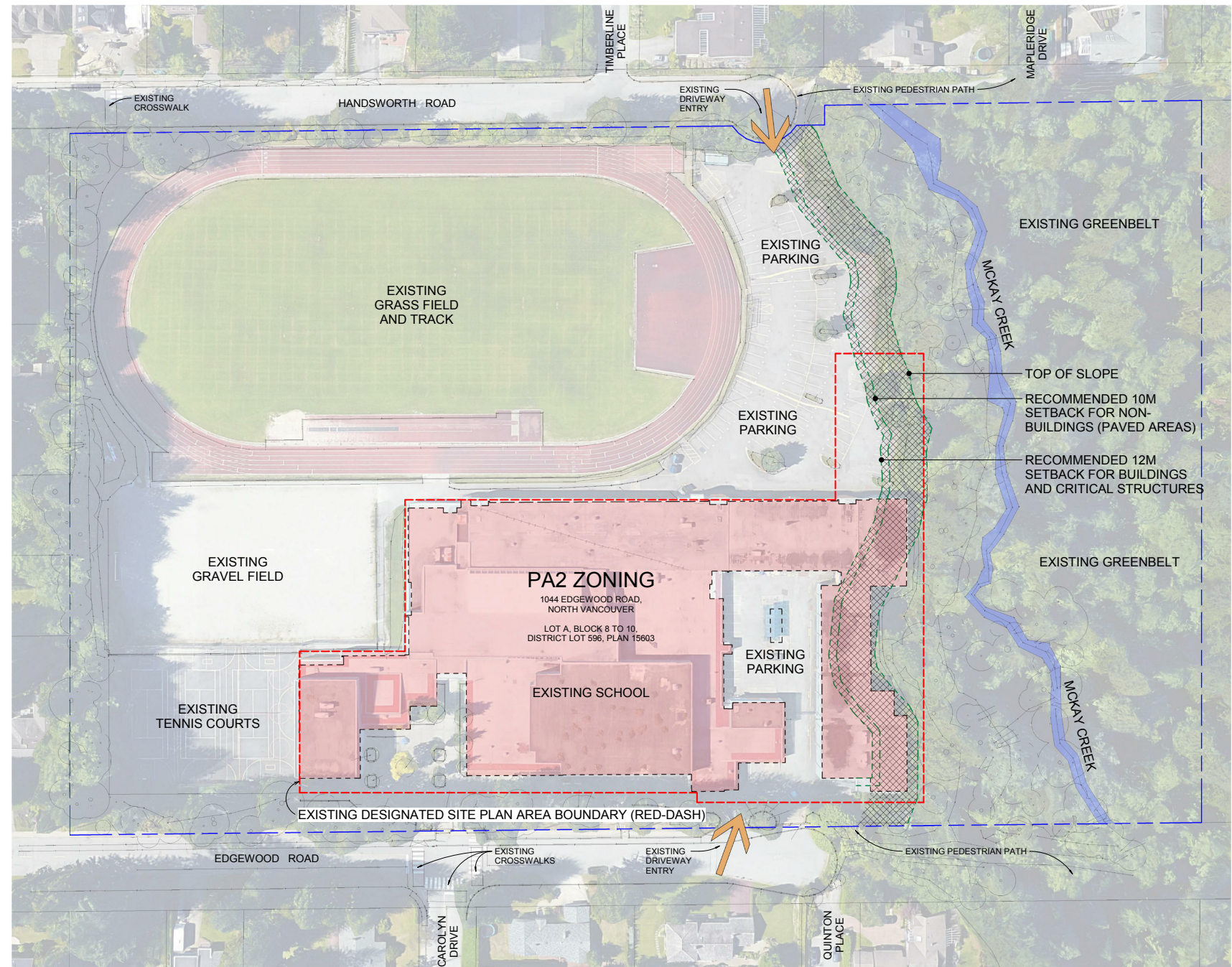




# CONTEXT

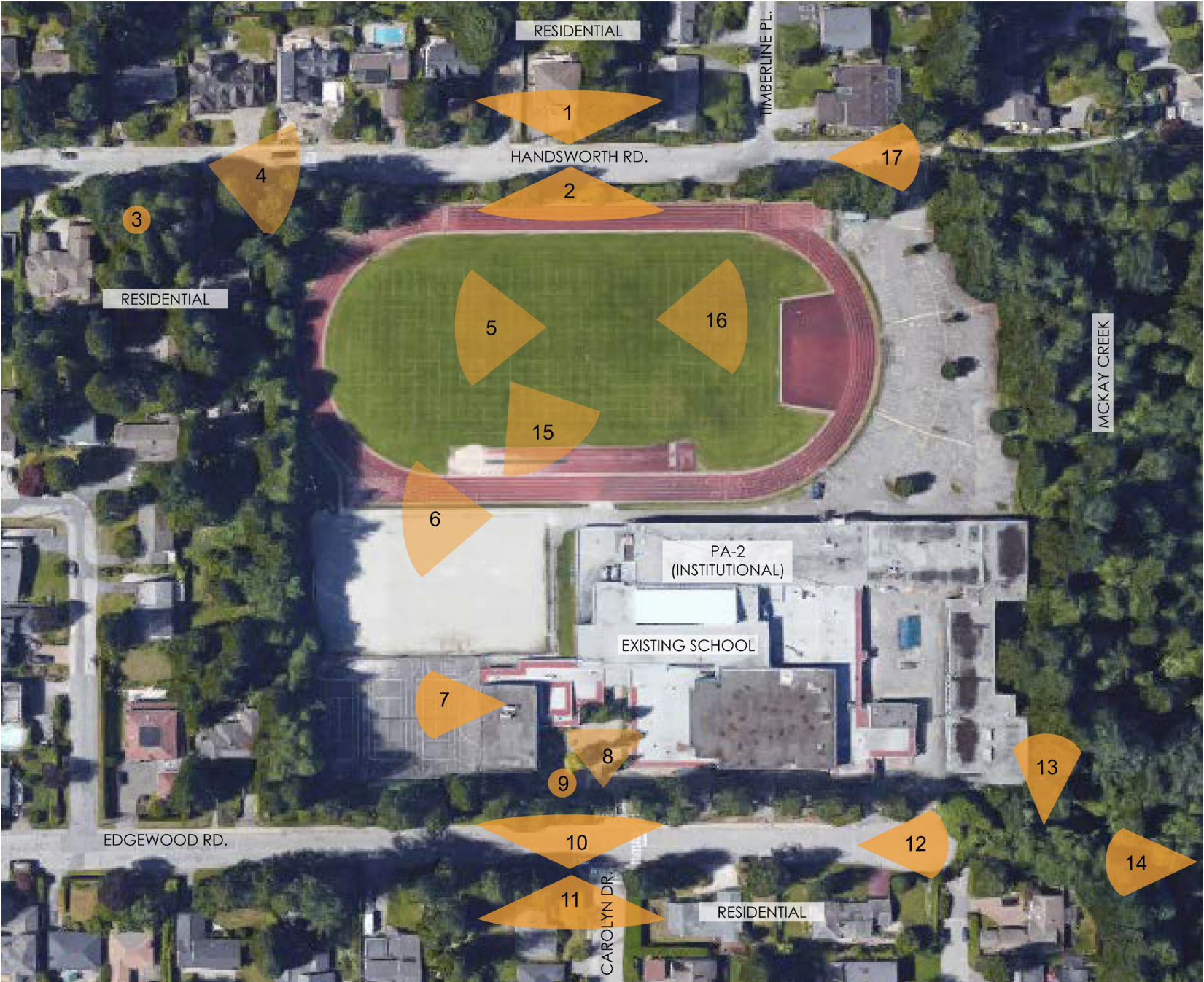








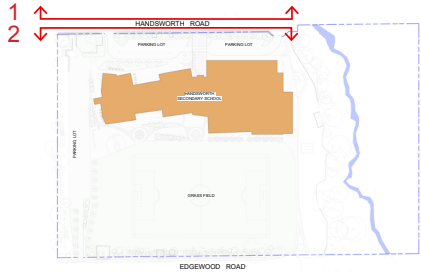
# CONTEXT PHOTOS





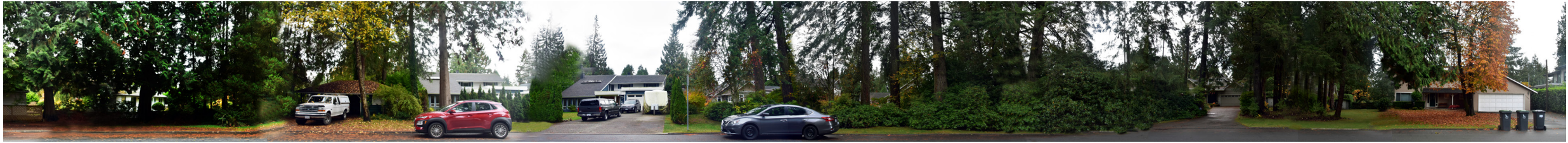


① HANDSWORTH ROAD STREETSCAPE LOOKING NORTH

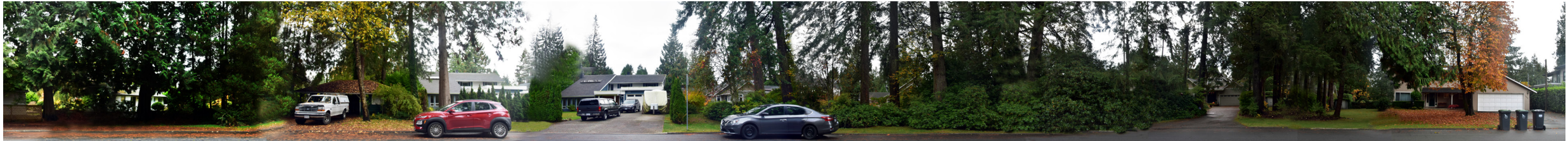
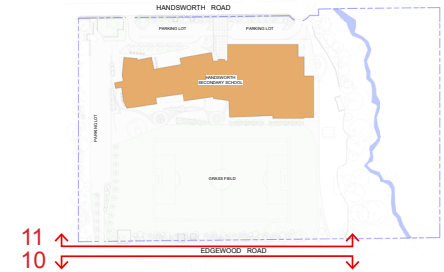


② HANDSWORTH ROAD STREETSCAPE LOOKING SOUTH





10 EDGEWOOD ROAD STREETSCAPE LOOKING SOUTH



11 EDGEWOOD ROAD STREETSCAPE LOOKING NORTH





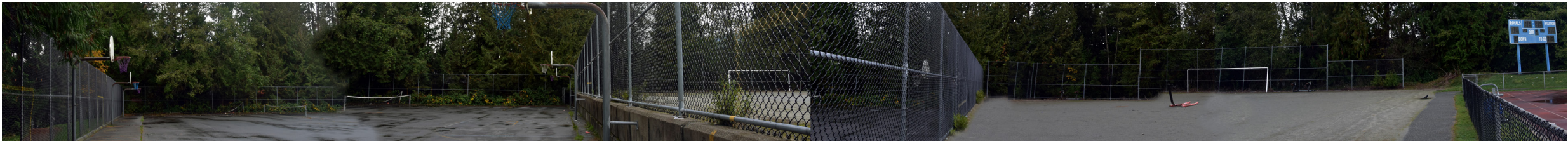
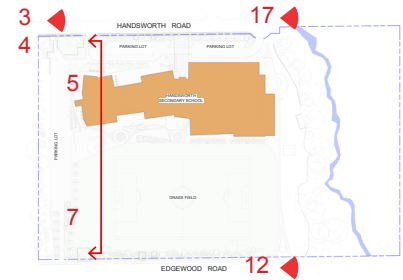
3 PROTECTED YEW TREE



4 PEDESTRIAN CROSSING



5 VIEW WEST FROM FIELD



7 VIEW OF TENNIS COURT

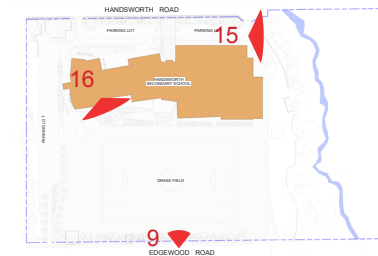


12 CUL-DE-SAC VIEW EAST FROM EDGEWOOD RD



17 CUL-DE-SAC VIEW EAST FROM HANDSWORTH RD





9 WELCOME POLE



9 SCHOOL ENTRANCE VIEW



15 VIEW EAST FROM FIELD

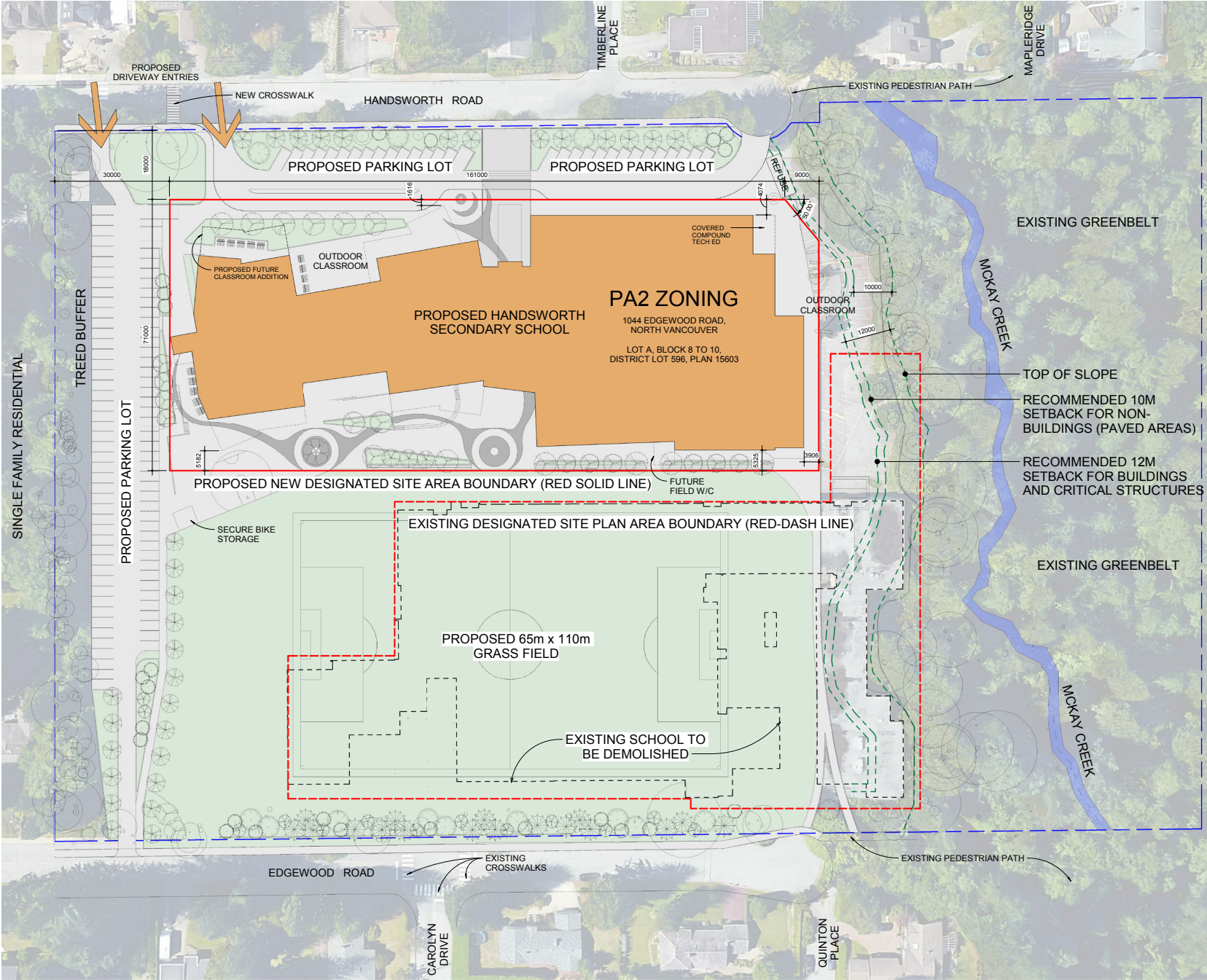


16 VIEW SOUTH FROM FIELD



# SITING OF PROPOSED NEW SCHOOL

## OPPORTUNITIES AND CONSTRAINTS





# ZONING

SITE:		
SITE AREA: 56,029.30m²		
SITE ELEVATION: 143.30m ABOVE SEA LEVEL		
FLOOR AREA RATIO:	REQUIRED	PROVIDED
	N/A	0,23%
FLOOR AREA FOR F.A.R.:		
MAIN:		6,960m²
SECOND:		3,153m²
THIRD:		2,948m²
TOTAL FLOOR AREA:	N/A	13,061m²
SITE COVERAGE:	REQUIRED:	PROVIDED:
BUILDING	N/A	0.14 (7,973m²)
BUILDING AND PARKING	N/A	0.22 (12,301m²)
BUILDING HEIGHT:	REQUIRED:	PROVIDED:
BUILDING HEIGHT:	N/A	13.8m - 17.4m
* NOTE: BUILDING HEIGHT IS MEASURED TO THE AVERAGE OF THE LOWER OF THE NATURAL OR FINISHED GRADE ELEVATIONS.		
CAR PARKING:	REQUIRED:	PROVIDED:
REGULAR STALLS	166	77
SMALL CAR STALLS		40
H/C STALLS	2	2
HANDYDART	0	1
LOADING STALLS		LOADING AISLE PROVIDED
TOTAL	168	120 REFER TO VARIANCE (107 CURRENT)
** PARKING REQUIREMENTS BASED ON 3 STALLS PER CLASSROOM (56 CLASSROOMS) 3x56=168		
PARKING STANDARDS:		
2.7m X 5.7m REGULAR STALLS		
2.6m X 4.9m SMALL CAR STALLS (UP TO 35%)		
3.7m X 5.7m ACCESS STALLS @ 1 PER 100 REGUALR STALLS OR PART THEREOF		
7.0m DRIVE AISLES (ONE WAY TRAFFIC WITH PARKING)		
4.6m DRIVE AISLES (ONE WAY TRAFFIC)		
BICYCLE PARKING:	REQUIRED:	PROVIDED:
CLASS 1 (SECURED)***	N/A	14
CLASS 2 (NON-SECURED)****	84	84
*** CLASS 1 SECURE BIKE PARKING STALLS NOT REQUIRED. 14 PROVIDED (1/1000m²) AS A TRADE-OFF FOR REDUCED VEHICLE PARKING VARIANCE.		
**** MIN. 0.6 BICYCLE SPACES FOR EVERY 10 STUDENTS ON A MAX. ATTENDACE PERIOD		

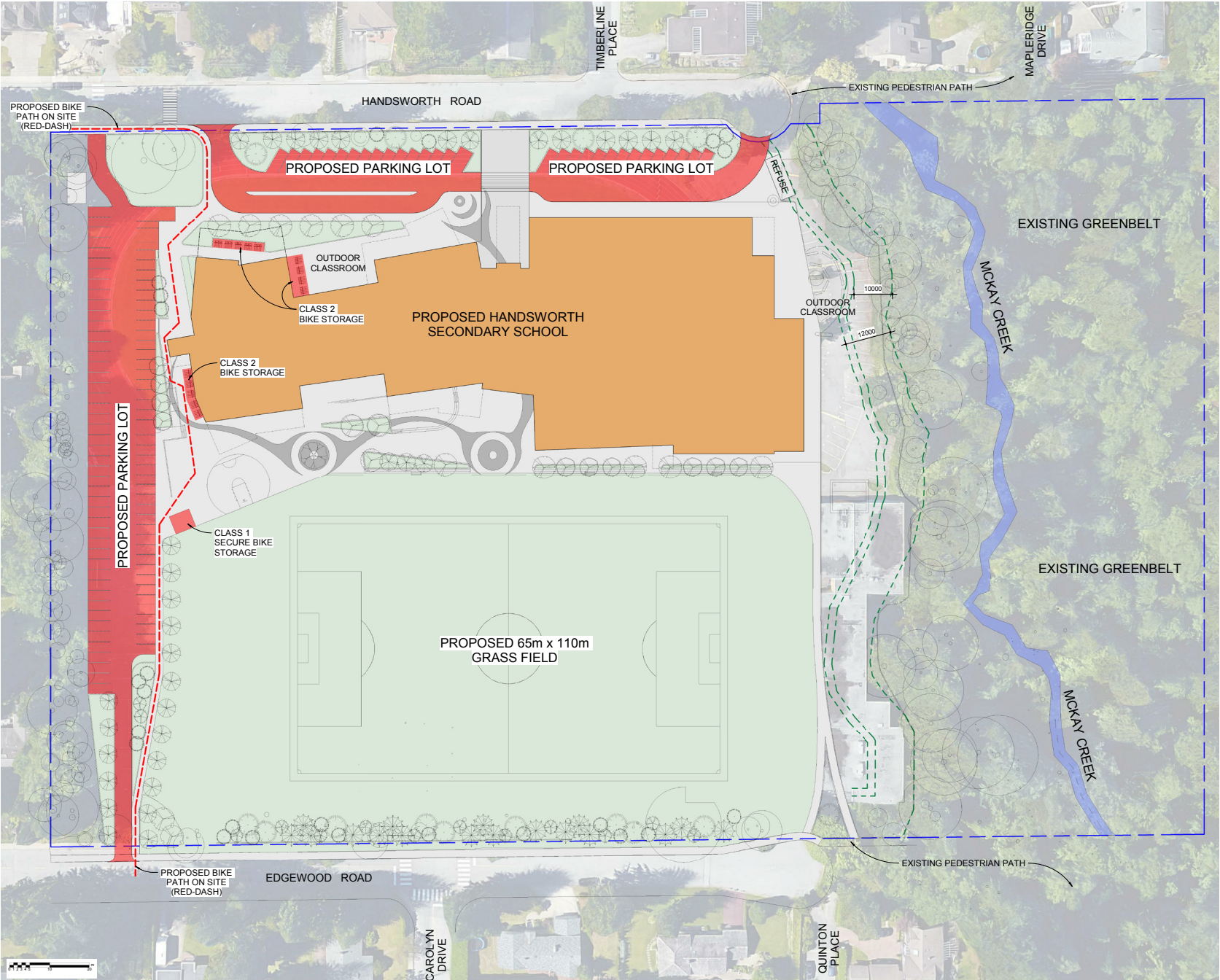
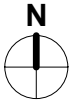


# PARKING STRATEGY

- 168 REQUIRED
- 120 PROPOSED
- 107 CURRENT
- 84 TYPICAL USE



SECURE CLASS-A BIKE PARKING - EXAMPLE FROM KITS

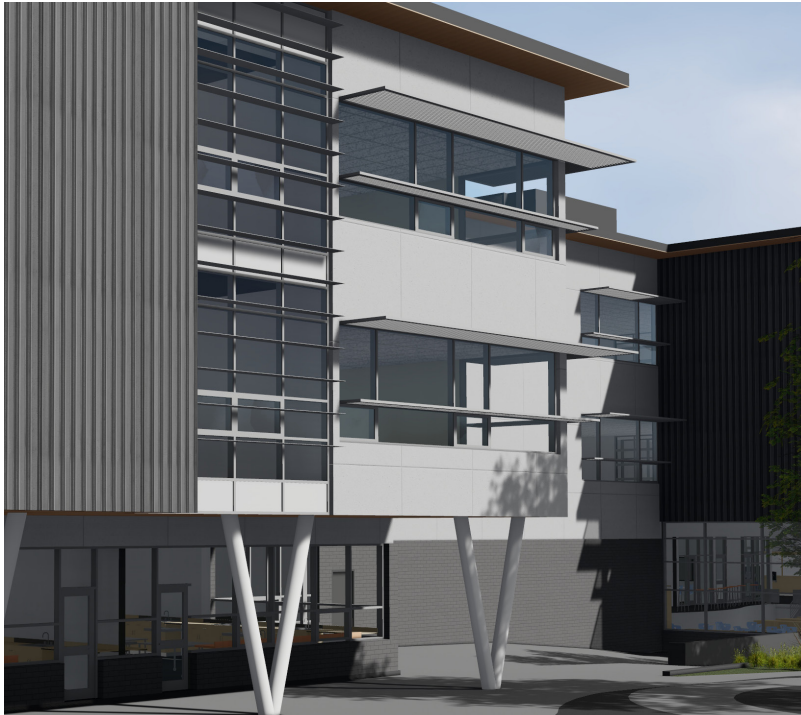




# SUSTAINABILITY



**Commercial New Construction  
Program whole Building Design**





# MASSING + URBAN DESIGN

MASSING

URBAN DESIGN

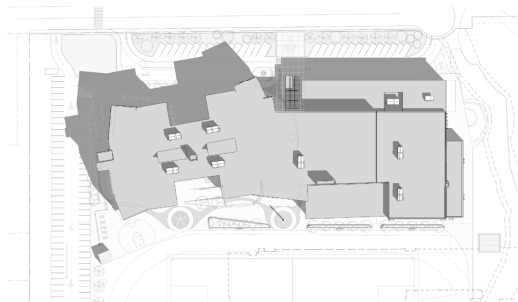
NEIGHBOURLINESS





# SHADOW ANALYSIS

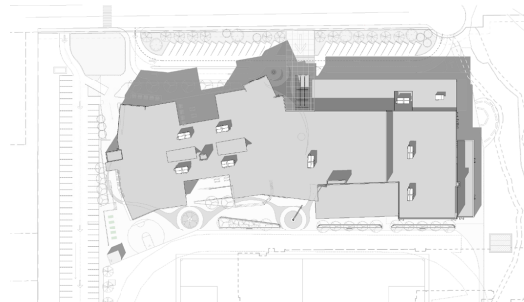
SPRING EQUINOX



March 21st at 10am



March 21st at 12pm

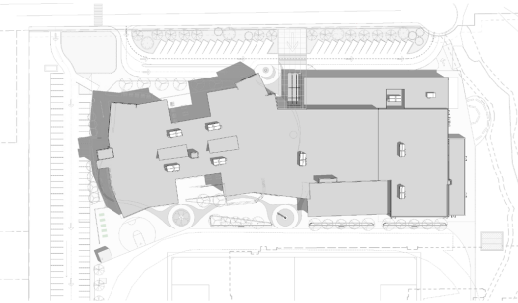


March 21st at 2pm

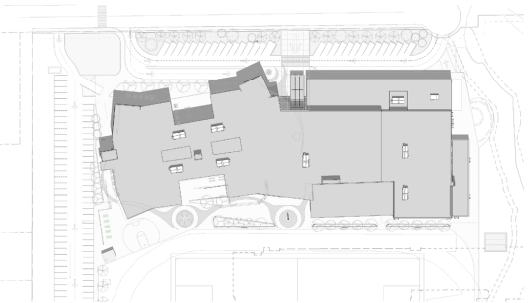


March 21st at 6pm

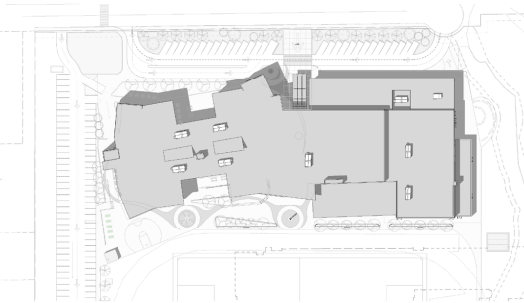
SUMMER SOLSTICE



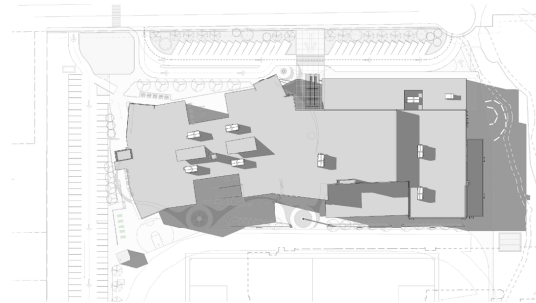
June 21st at 10am



June 21st at 12pm

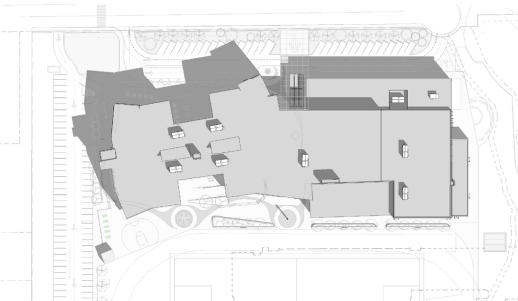


June 21st at 2pm

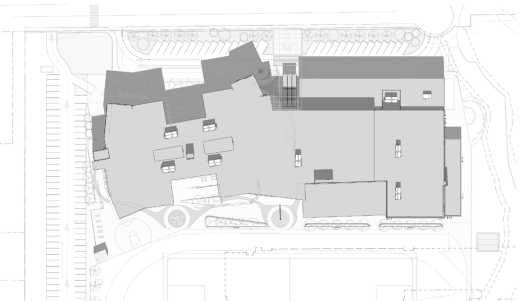


June 21st at 6pm

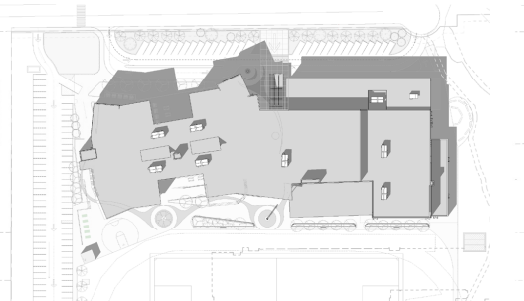
AUTUMN EQUINOX



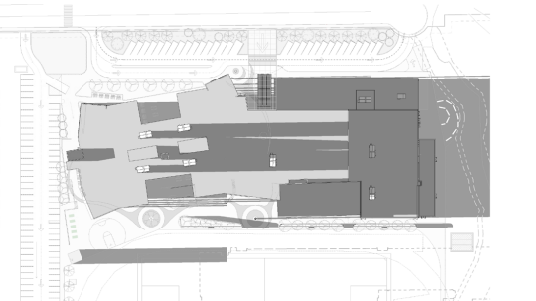
September 21st at 10am



September 21st at 12pm



September 21st at 2pm

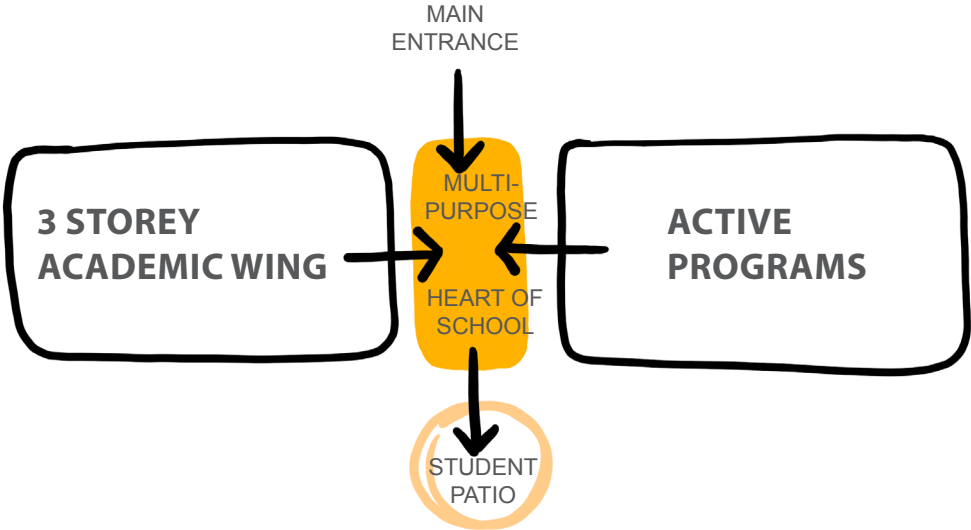


September 21st at 6pm

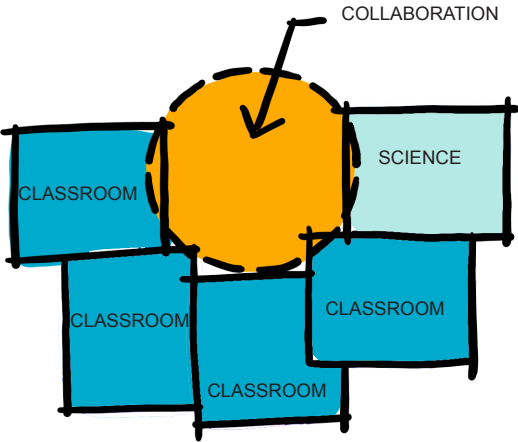


# PARTI DIAGRAMS

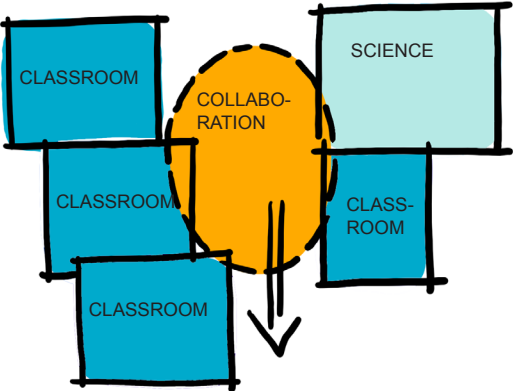
## GRAND COMMONS - HEART OF THE SCHOOL



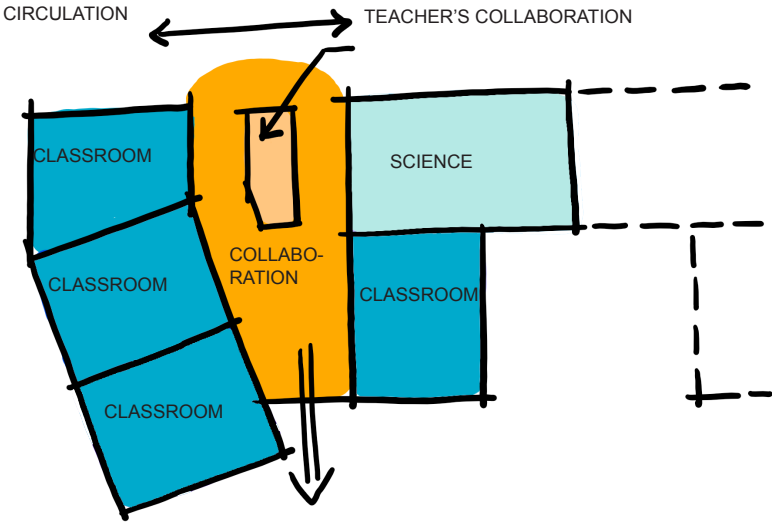
## CREATING COMMUNITY AND BUILDING RELATIONSHIPS



SMALL LEARNING COMMUNITIES / BUILDING BLOCKS



CONNECTION TO DAYLIGHT AND VIEWS



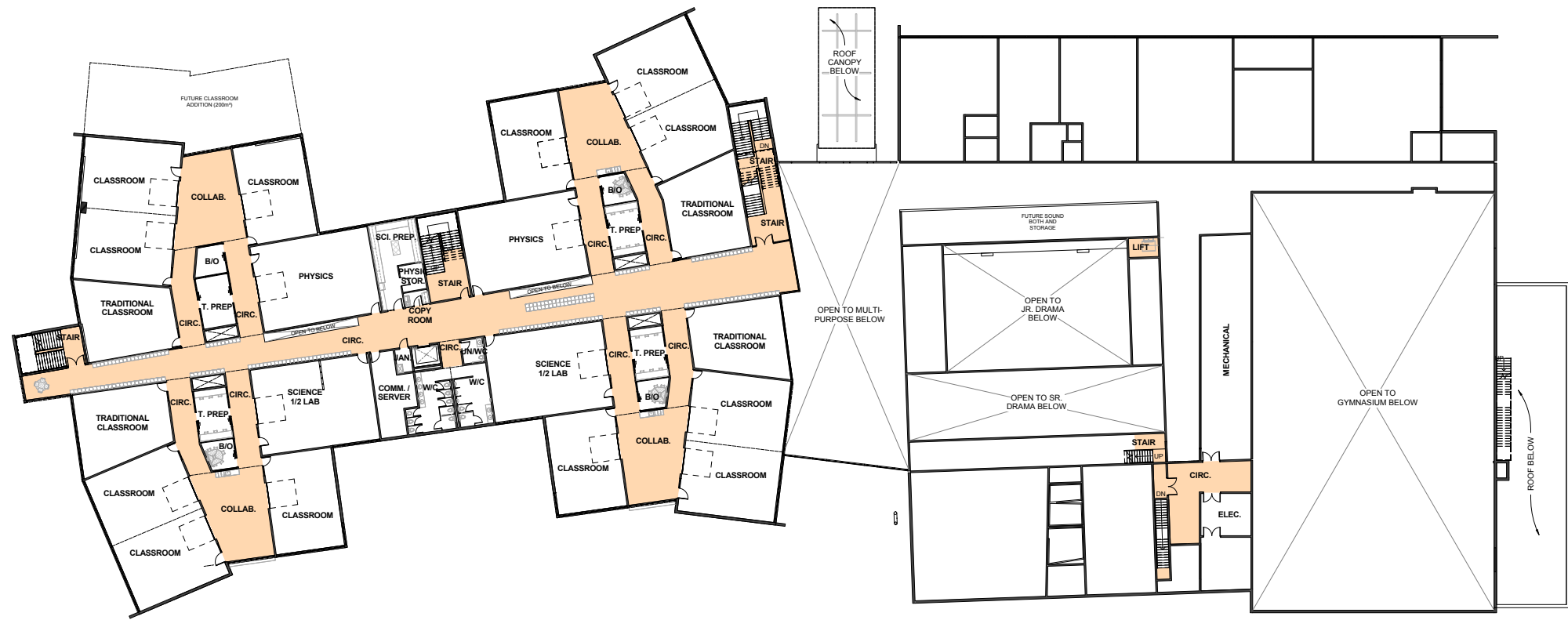
SOLUTION





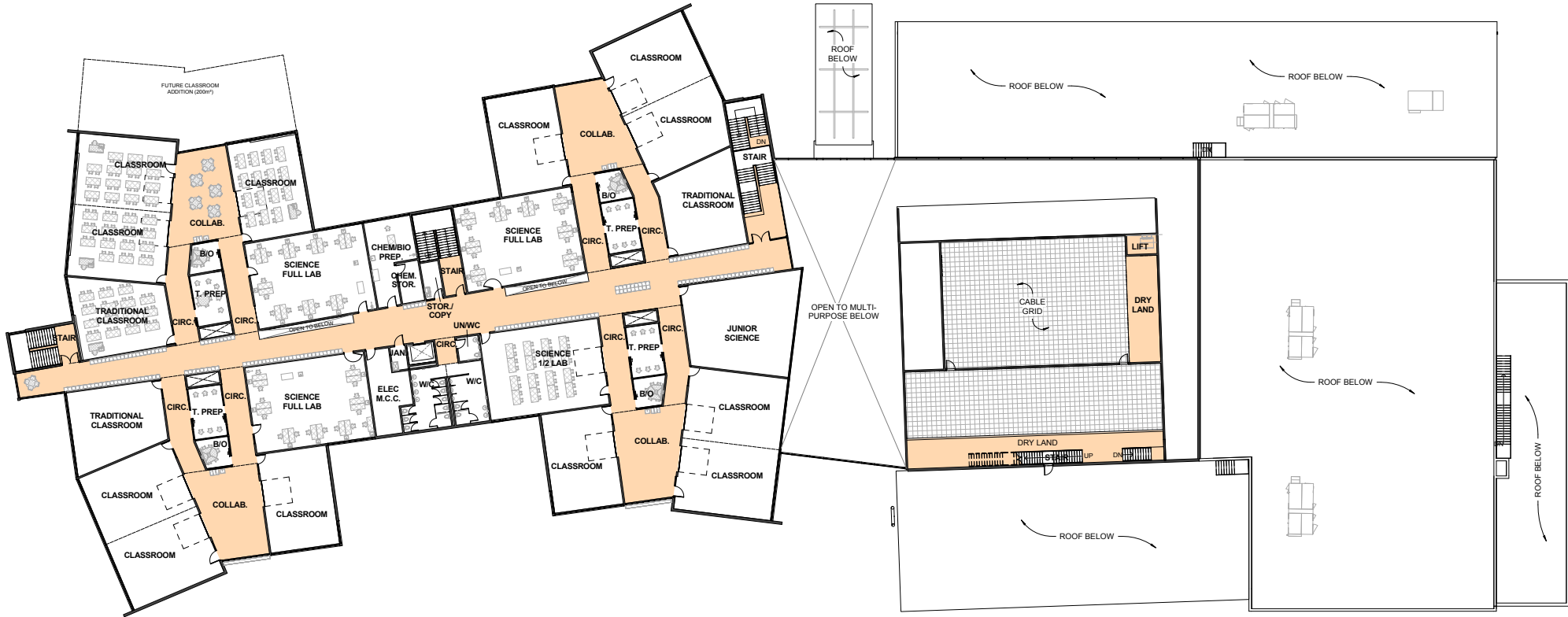


# FLOOR PLANS - SECOND FLOOR



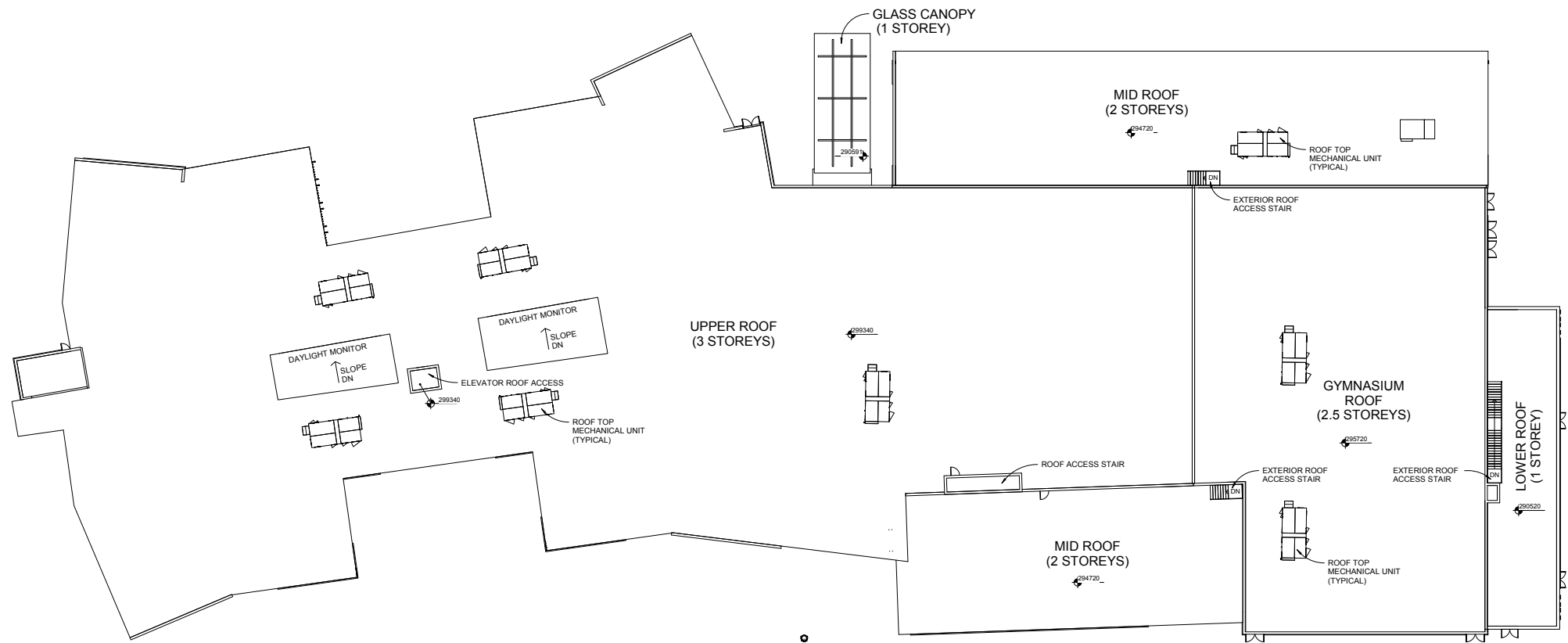


# FLOOR PLANS - THIRD FLOOR



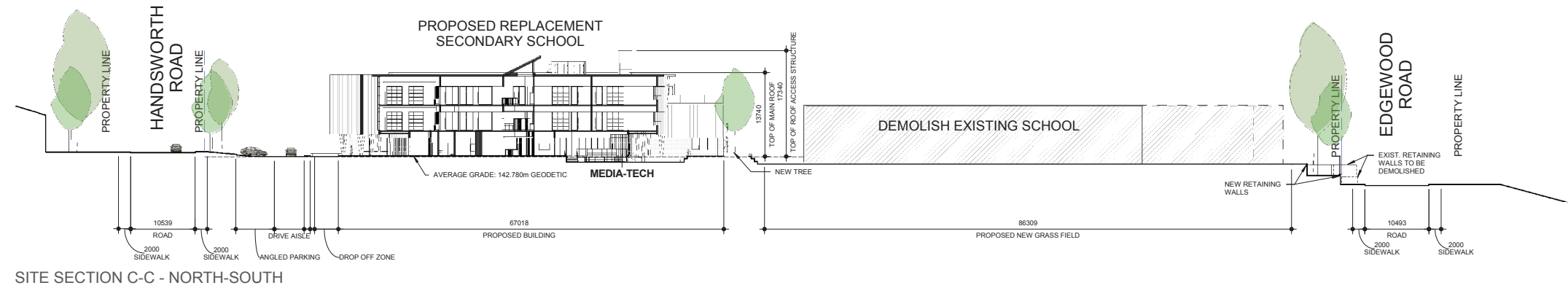
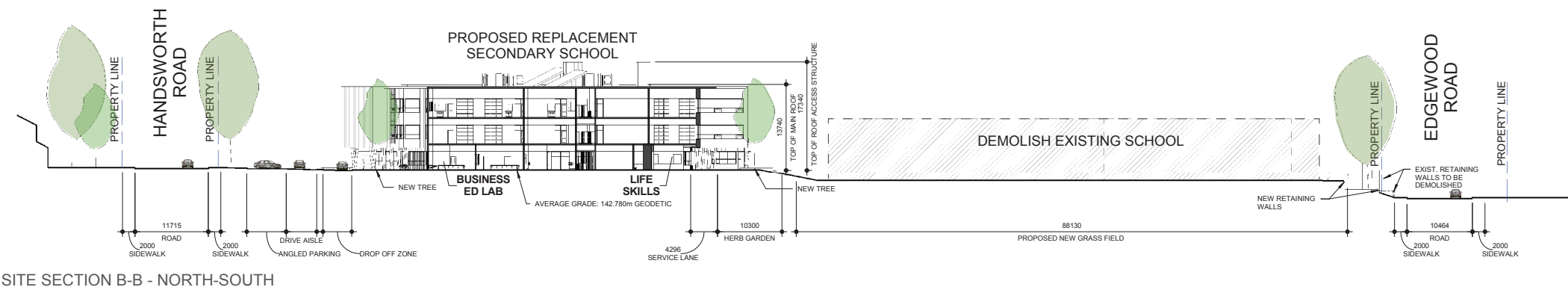
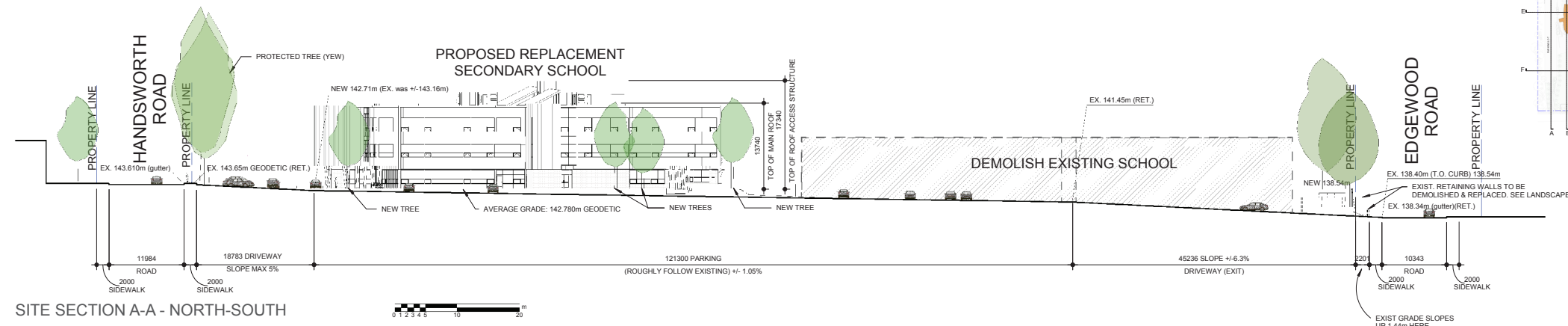


# FLOOR PLANS - ROOF PLAN



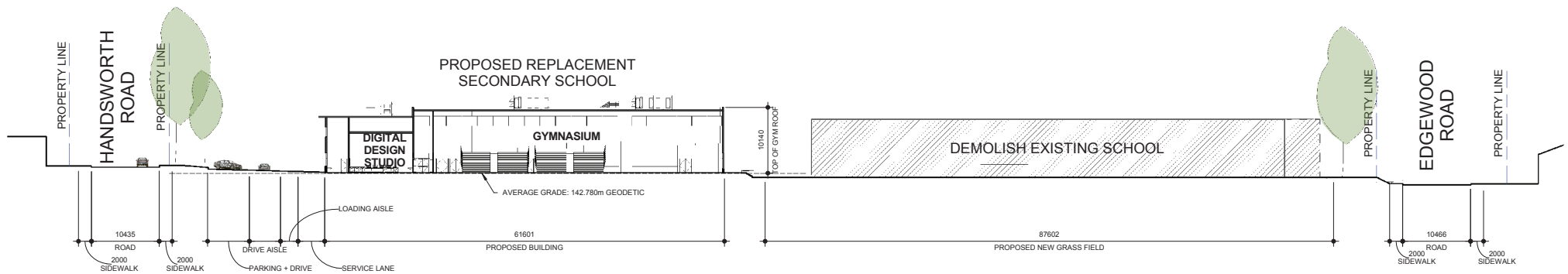
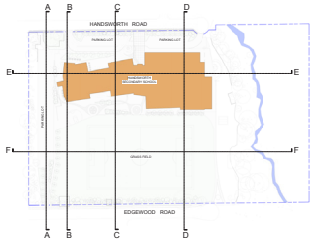


# SITE SECTIONS

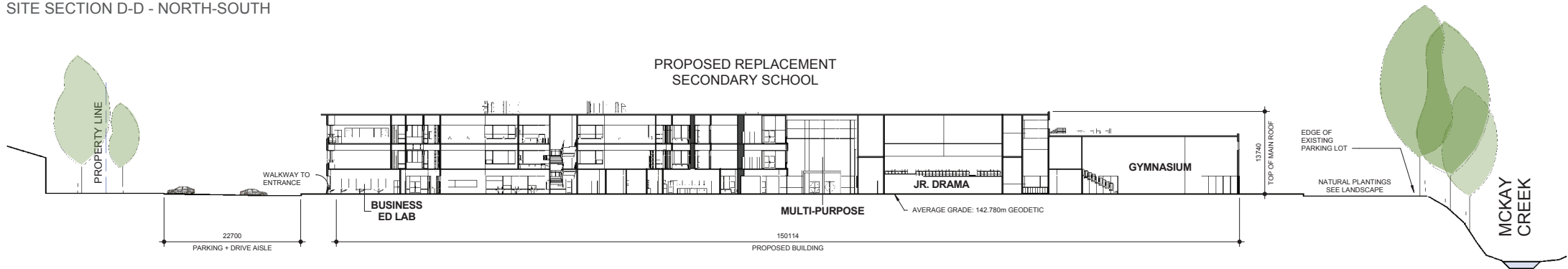




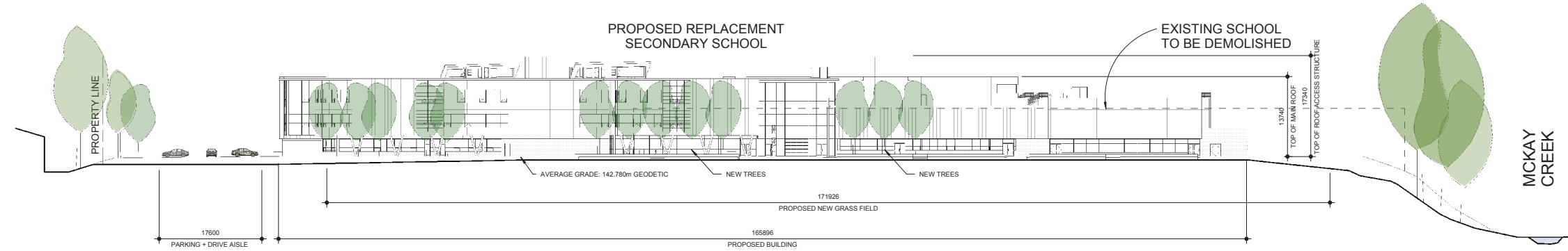
# SITE SECTIONS



SITE SECTION D-D - NORTH-SOUTH



SITE SECTION E-E - EAST-WEST

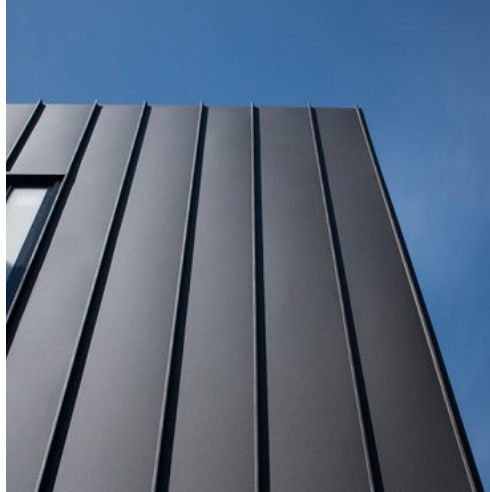


SITE SECTION F-F - EAST-WEST

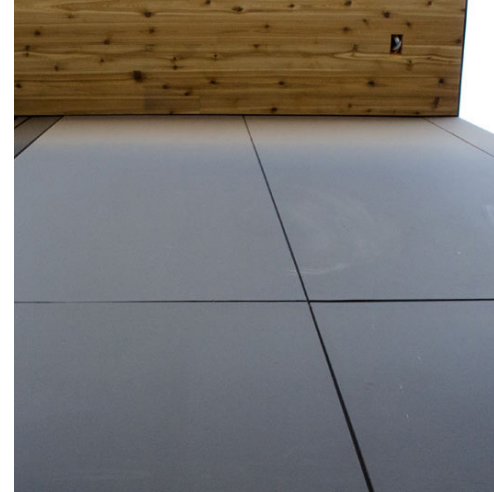




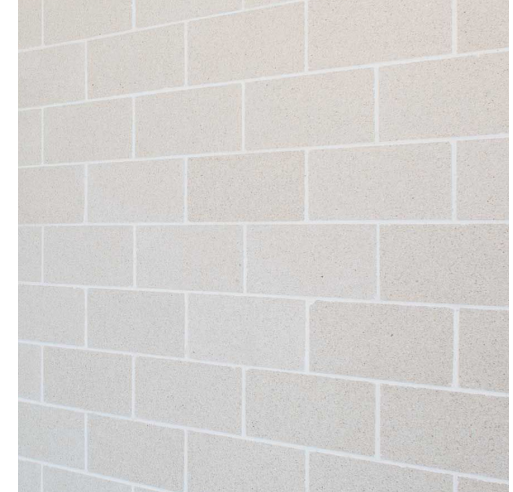
# MATERIALS



PRE-FINISHED STANDING SEAM  
METAL CLADDING



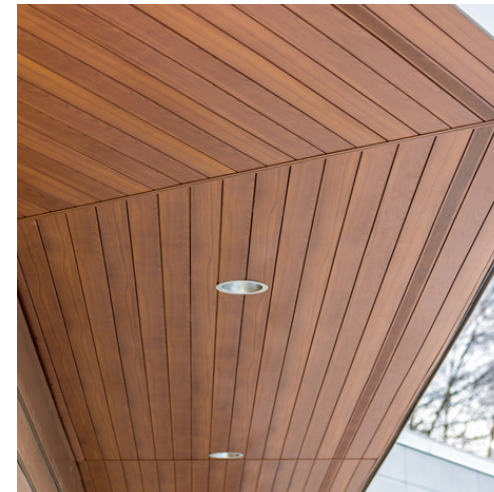
HIGH-DENSITY GLASS FIBRE-  
REINFORCED CONCRETE PANEL



MANSORY VENEER



OPAQUE GLASS SPANDREL PANELS



WOOD-LOOK METAL SOFFIT



GLASS CANOPY AND PAINTED STEEL  
STRUCTURE

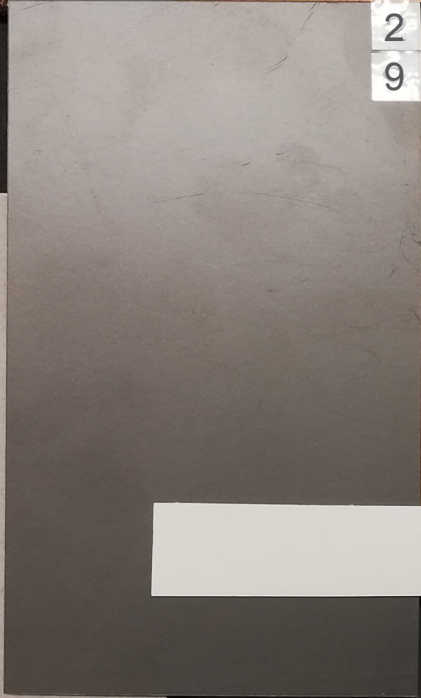




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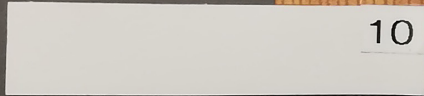


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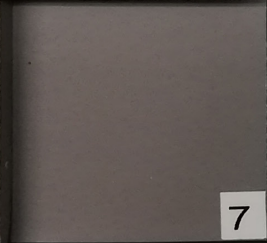
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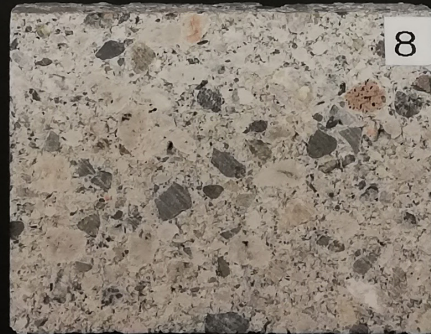
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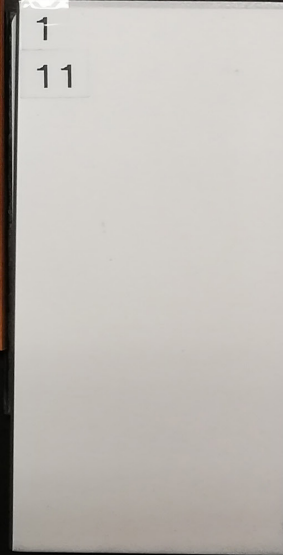
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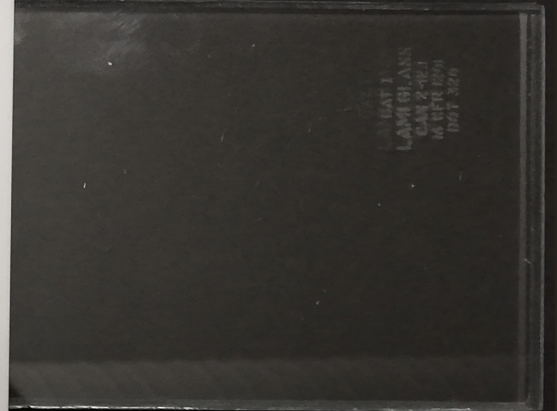


8



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11



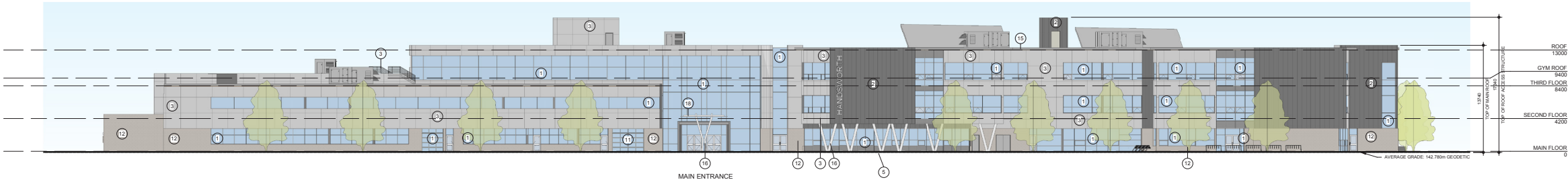
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#### MATERIAL LEGEND

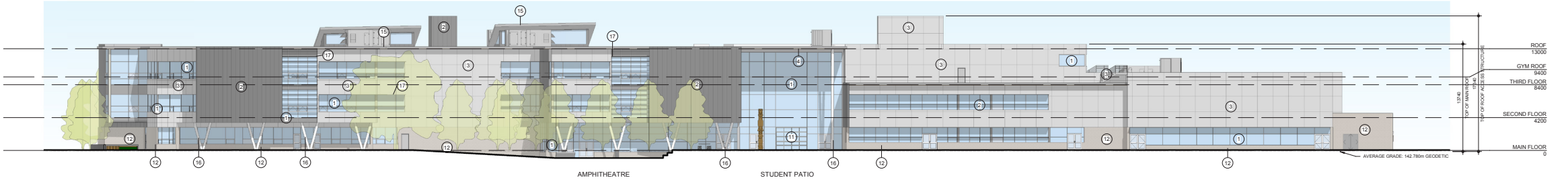
- 1- SEALED DOUBLE GLAZING IN THERMALLY BROKEN CURTAIN WALL
- 2- PREFINISHED STANDING SEAM METAL CLADDING
- 3- HIGH-DENSITY GLASS FIBRE-REINFORCED CONCRETE PANELS
- 4- PREFINISHED METAL SOFFIT
- 5- OPAQUE CURTAIN WALL SPANDREL PANEL
- 6- SBS MEMBRANE ROOF SYSTEM
- 7- PAINTED DOOR
- 8- CONCRETE MASONRY VENEER
- 9- PREFINISHED METAL FASCIA
- 10- PAINTED STEEL COLUMNS
- 11- GLASS CANOPY



# ELEVATIONS



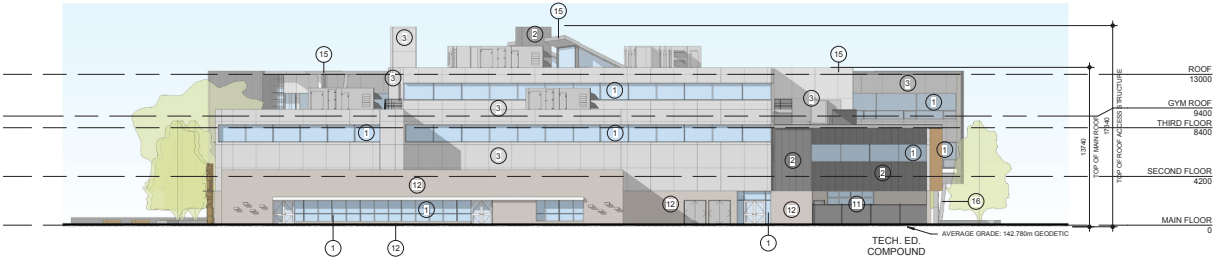
NORTH ELEVATION



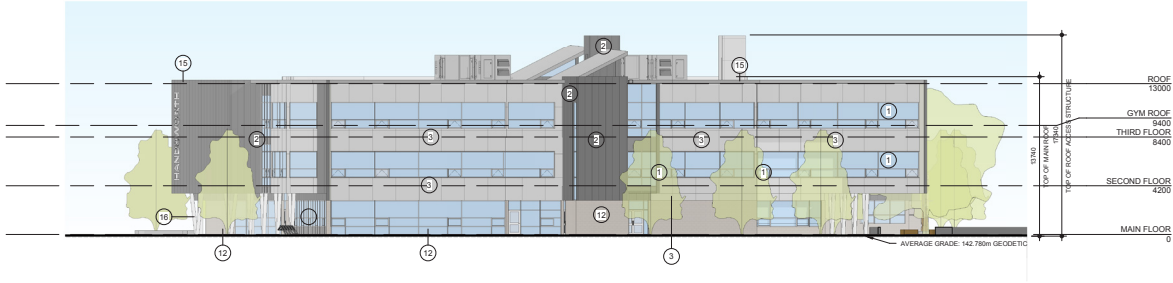
SOUTH ELEVATION



# ELEVATIONS



EAST ELEVATION



WEST ELEVATION

- 1 SEALED DOUBLE GLAZING IN THERMALLY BROKEN CURTAIN WALL
- 2 PREFINISHED STANDING SEAM METAL CLADDING
- 3 HIGH-DENSITY GLASS FIBRE-REINFORCED CONCRETE PANELS
- 4 PREFINISHED THERMALLY BROKEN OVERHEAD DOOR
- 5 CONCRETE MANSORY VENEER c/w ANTI-GRAFFITI COATING
- 6 PREFINISHED METAL FASCIA
- 7 PAINTED STEEL COLUMN
- 8 SUN SHADES
- 9 GLASS CANOPY





**APPROACH FROM HANDSWORTH**





MAIN ENTRANCE





VIEW OF CLASSROOM FROM SOUTH-WEST CORNER





VIEW OF STUDENT PATIO FROM FIELD





LEGEND	
A	Welcome Pole
B	Sandblasted Concrete Pattern
C	Bike Racks
D	Secure Bike Parking
E	Raised Herb and Veg Planters (future)
F	Granular Surface
G	Shrub Planting
H	Picnic Table Style Seating
I	Raised Planter with Field Seating
J	Amphitheatre Seating
K	Interior Floor Pattern as per Arch.
L	Chain Link Fence to Remain
M	Existing Trees to be Retained
N	Parking
O	Conifer Screening
P	Retaining Wall
Q	Outdoor Classroom
R	Native and Medicinal Plants

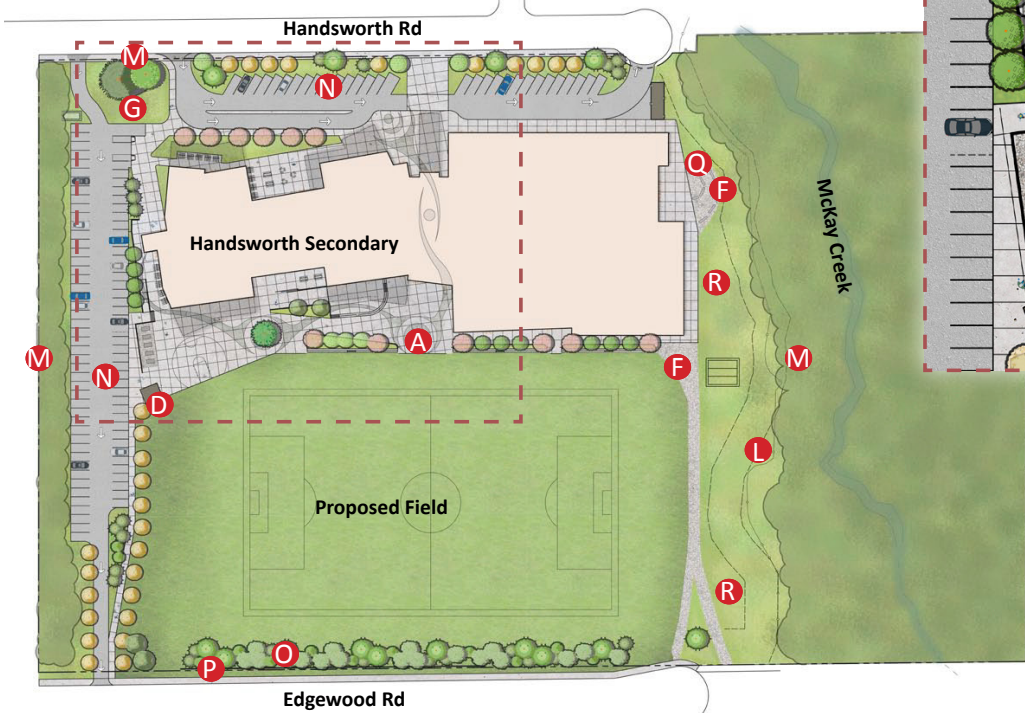




North Vancouver School District  
the natural place to learn

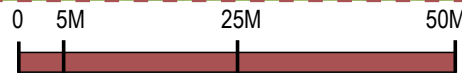
LEGEND

- A Welcome Pole
- B Sandblasted Concrete Pattern
- C Bike Racks
- D Secure Bike Parking
- E Raised Herb and Veg Planters (future)
- F Granular Surface
- G Shrub Planting
- H Picnic Table Style Seating
- I Raised Planter with Field Seating
- J Amphitheatre Seating
- K Interior Floor Pattern as per Arch.

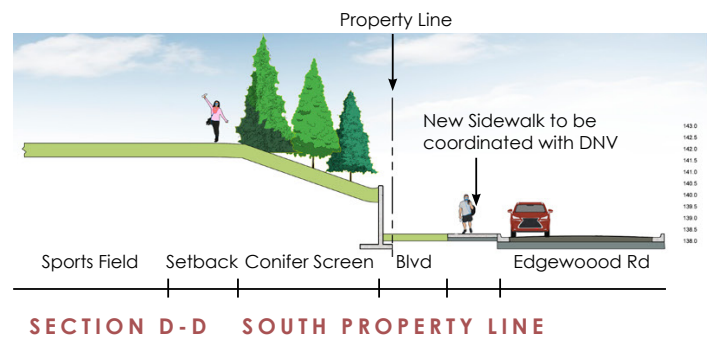
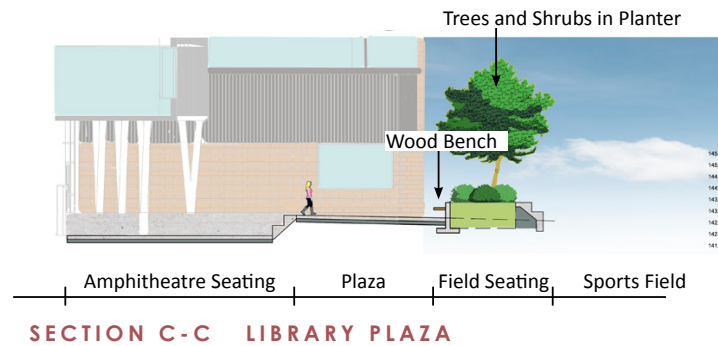
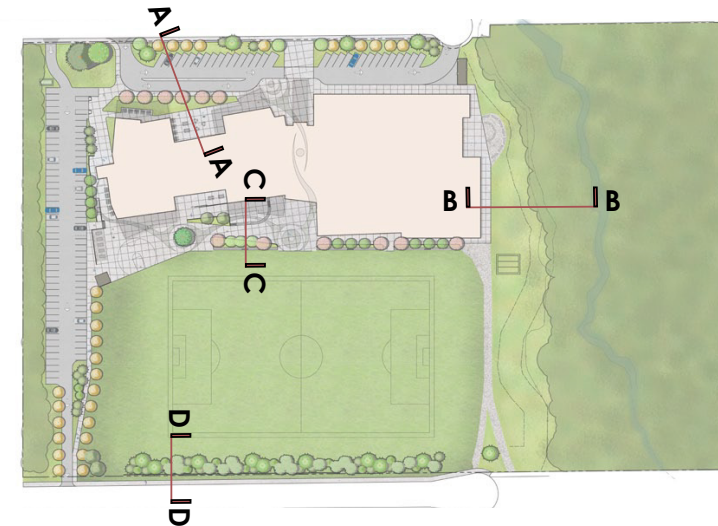
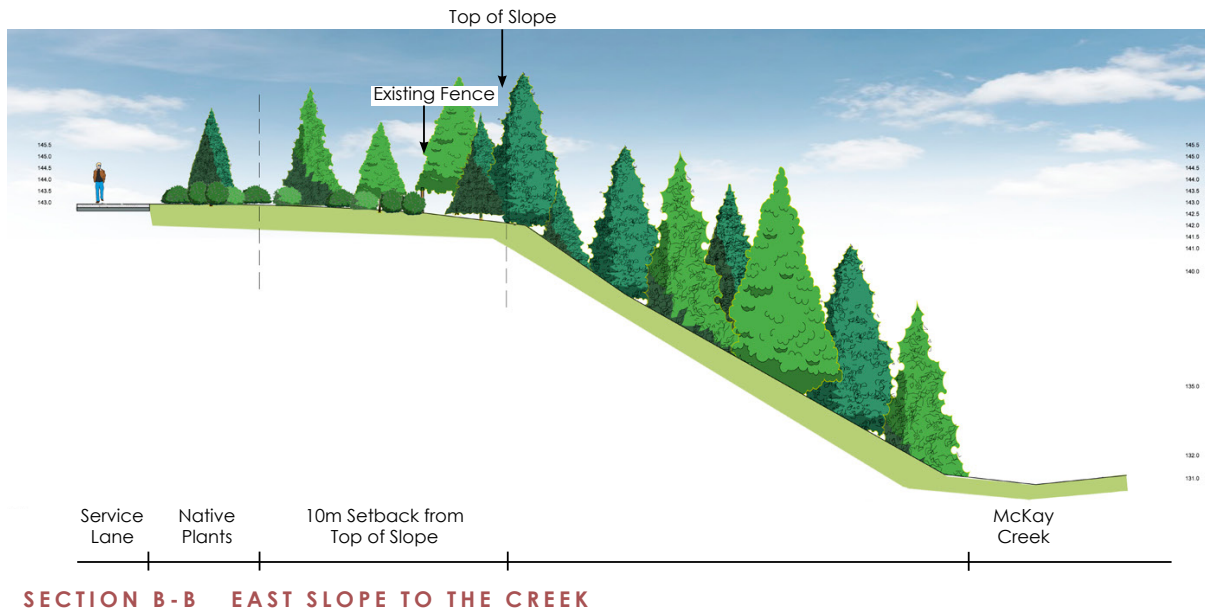
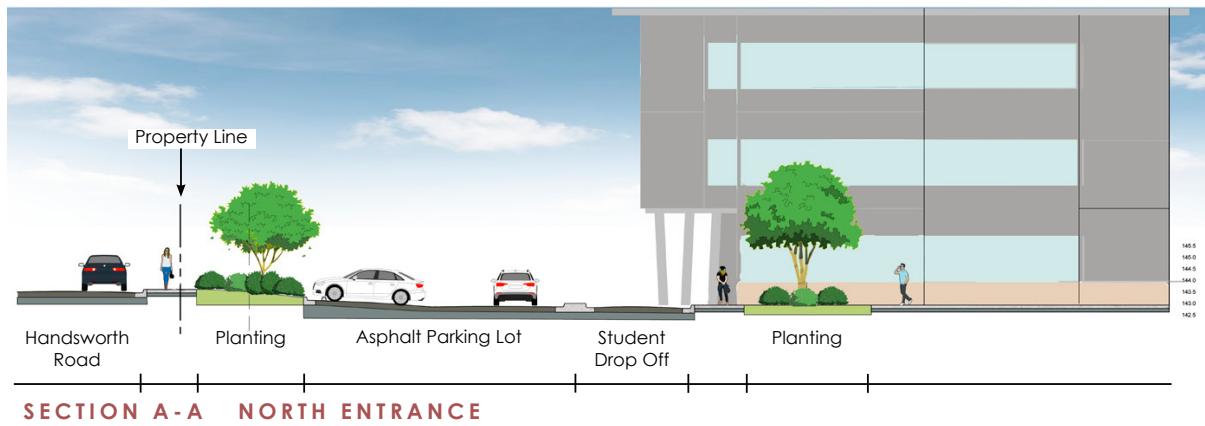


LEGEND

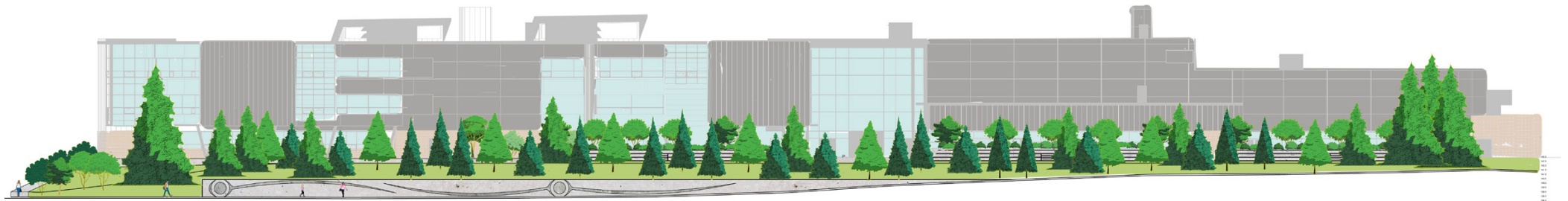
- L Chain Link Fence to Remain
- M Existing Trees to be Retained
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- O Conifer Screening
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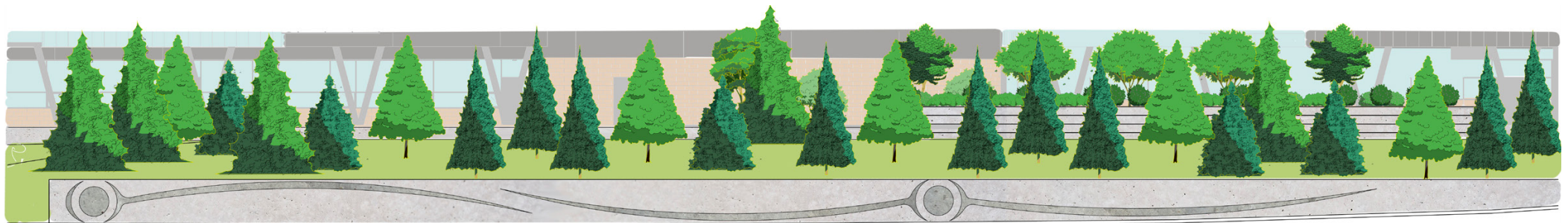








ELEVATION A SOUTH PROPERTY LINE

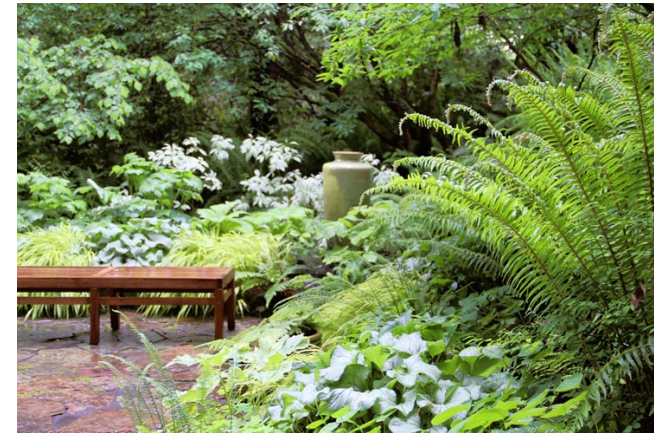
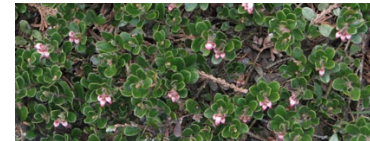


ELEVATION A WALL PATTERN DETAIL



## BLOOM CHART

SHRUBS	BOTANICAL / COMMON	early spring	spring	late spring	early summer	summer	late summer	early autumn
EVERGREEN	Aster divaricatus 'Wood's Purple' / Wood's Purple Aster							
	Azalea japonica 'Hino White Dwarf' / Dwarf White Japanese Azalea							
	Azalea x 'Hino Crimson' / Hino Crimson Azalea							
	Berberis thunbergii 'Concorde' / Concorde Barberry							
	Blechnum spicant / Deer Fern							
	Calluna vulgaris 'Firefly' / Heather							
	Cornus sanguinea 'Midwinter Fire' / Blood-Twig Dogwood							
	Daphne x burkwoodii / Burkwood Daphne							
	Gaultheria shallon / Salal							
	Heuchera x 'Berry Smoothie' / Berry Smoothie Coral Bells							
	Hydrangea paniculata 'Little Lime' / Little Lime Hydrangea							
	Liriope muscari 'Big Blue' / Big Blue Lilyturf							
	Liriope muscari 'Monroe White' / Monroe White Liriope							
	Lonicera pileata / Privet Honeysuckle							
	Pennisetum alopecuroides 'Karlay Rose' / Fountain Grass							
	Polystichum munitum / Western Sword Fern							
	Rhododendron x 'Unique' / Unique Rhododendron							
	Sarcococca ruscifolia / Fragrant Sarcococca							
	Spiraea x bumalda 'Goldmound' / Gold Mound Spirea							
	Vaccinium ovatum / Evergreen Huckleberry							
GR. COVERS	BOTANICAL / COMMON							
	Arctostaphylos uva-ursi 'Vancouver Jade' / Vancouver Jade Bearberry							
	Galium odoratum / Sweet Woodruff							
	Gaultheria procumbens / Wintergreen							







BIKE RACK



SANDBLASTED CONCRETE PATTERN



FIELD SEATING



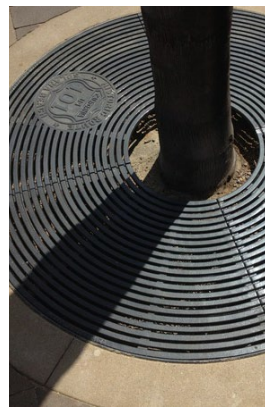
RAISED PLANTER WITH WOOD SEATING



CURVED BENCHES



OUTDOOR CLASSROOM



TREE GRATE



AMPHITHEATRE SEATING