

MAJOR PROJECT PHASE 1

TEAM#5 - MARY ABUELFARAG, SIMRAN SANDHU

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ARCHITECTURAL STUDIO 4 - ARCH30048

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DESIGN CONCEPT

The new proposed fire station located on Ninth Line is a beautiful land filled with so much potential to create something great. First thing that came to mind when pondering ideas for this project was sustainability. Mississauga could use many more LEED certified buildings. The goal behind the design of this Fire Station is to make the workers feel like they are not “at work”. This space is versatile, comfortable and modern. Each room is separated but can also feel connected with an open concept. Firstly, the open concept was brought to life by eliminating doors in certain areas to help the space in each room feel bigger. In addition, windows in a few different sizes were added to maximize the natural light, which can also help any space feel bigger.


INSPIRING IDEAS

This new built Fire Station is necessary to provide emergency service to the Ninth Line area in Mississauga. This new project is being built on a grand empty lot, surrounded by other new potential projects such as a community center. This new project consists of three key parts, the fire station, apparatus bays, and a hose tower. Each component serves its unique important function. The street facing side consists of large windows with an exterior material of gray stone and the apparatus bays with gray brick. The large curtain walls and big windows brings life to the exterior and interior of the building. The exterior model was focused to be very minimal but including a great design statement.

ENVIRONMENTAL FACTORS

Many steps were taken into consideration to ensure that it can meet as much sustainability requirements as possible. First, the station takes greatest advantage of the neighboring climate. It has grand windows on both the south and north elevations, permitting a lot of sunlight to enter the building. The south side also incorporates a lot of trees, which could be handy for the hot summer days when in need of a little shade. A light-colored roof is employed to reflect the immediate heat that the building will get through the summer. This technique can also decrease the expense of energy during the summer by twenty percent. Pedestrian sidewalks have also been taken into concern for the site to make it easily available for the public and staff. A total of three bus routes pass by the fire station which is amazingly convenient for anyone that finds themselves at our new fire station.

OBC MATRIX

ONTARIO BUILDING CODE DATA MATRIX				Revised: 2017-01-23
PART 3 - FIRE PROTECTION, OCCUPANT SAFETY AND ACCESSIBILITY				OBC REFERENCE ⁽¹⁾
Name of Practice	FIRE STATION			
Address 1	NINTH LINE, MISSISSAUGA, ONTARIO			
Address 2				
Contact				
Name of Project	NEW EMERGENCY SERVICE STATION			
Location/Address	NINTH LINE, MISSISSAUGA, ONTARIO			
Date				
3.00 BUILDING CODE VERSION	O.Reg. 332/12	LAST AMENDMENT	O.Reg. 191/14	
3.01 PROJECT TYPE	New Construction			[A] 1.1.2.
3.02 MAJOR OCCUPANCY CLASSIFICATION	OCCUPANCY	USE		3.1.2.1.(1)
	C Residential	DORMATORY		
	D Business & Personal Services	OFFICES		
	F3 Low Hazard Industrial	STORAGE GARAGE (PARKING)		
3.03 SUPERIMPOSED MAJOR OCCUPANCIES	NO			3.2.2.7.
3.04 BUILDING AREA (m ²)	DESCRIPTION	EXISTING	NEW	TOTAL [A] 14.1.2.
	EMERGENCY RESPONSE STATION		1200sqm	-
				-
	TOTAL	-	-	-
3.05 GROSS AREA (m ²)	DESCRIPTION	EXISTING	NEW	TOTAL [A] 14.1.2.
				-
				-
	TOTAL	-	-	-
3.06 MEZZANINE AREA (m ²)	DESCRIPTION	EXISTING	NEW	TOTAL 3.2.1.1.
	N/A			-
				-
	TOTAL	-	-	-
3.07 BUILDING HEIGHT	1	STOREYS ABOVE GRADE	9.20 (m) ABOVE GRADE	[A] 14.1.2. & 3.2.1.1.
	N/A	STOREYS BELOW GRADE		

3.08 HIGH BUILDING	No				3.2.6			
3.09 NUMBER OF STREETS/ FIREFIGHTER ACCESS	1 STREET(S)				3.2.2.10. & 3.2.5.			
3.10 BUILDING CLASSIFICATION (SIZE AND CONSTRUCTION RELATIVE TO OCCUPANCY)	3.2.2.48.	Group C, up to 3 Storeys, Sprinklered			3.2.2.20-83.			
	3.2.2.56.	Group D, up to 2 Storeys, Sprinklered						
3.11 SPRINKLER SYSTEM	Required	PROVIDED:	Entire Building		3.2.1.5. & 3.2.2.17.			
3.12 STANDPIPE SYSTEM	Not Required				3.2.9.			
3.13 FIRE ALARM SYSTEM	Required	TYPE PROVIDED -			3.2.4.			
3.14 WATER SERVICE/ SUPPLY IS ADEQUATE	Yes							
3.15 CONSTRUCTION TYPE	RESTRICTIONS	-			3.2.2.2.20.-83.			
	ACTUAL	HEAVY TIMBER CONSTRUCTION			3.2.14.			
3.16 IMPORTANCE CATEGORY	Normal				4.1.2.1.(3), 14.1.2.1B.			
3.17 SEISMIC HAZARD INDEX (I _E F, S _E)	0.00	Seismic Design Not Required for Table 4.1.8.18. Items 6 to 21			4.1.8.18.(1)			
3.18 OCCUPANT LOAD	FLOOR LEVEL/AREA	OCCUPANCY TYPE	BASED ON	OCCUPANT LOAD (PERSONS)	3.1.17.			
	Dormitory	GROUP C	m ² per person	9				
	Offices	GROUP D	m ² per person	17				
	Storage Garage (Parking)	GROUP F3	m ² per person	7				
	TOTAL			33				
3.19 BARRIER-FREE DESIGN	Yes				3.8.			
3.20 HAZARDOUS SUBSTANCES	No				3.3.1.2. & 3.3.1.9.			
3.21 REQUIRED FIRE RESISTANCE RATINGS	HORIZONTAL ASSEMBLY	RATING (H)	SUPPORTING ASSEMBLY (H)	NONCOMBUSTIBLE IN LIEU OF RATING?	3.2.2.20.-83, 3.2.1.4.			
	FLOORS OVER BSMT			-				
	FLOORS	45 mins		YES				
	MEZZANINE	n/a		N/A				
	ROOF	no rating		N/A				
3.22 SPATIAL SEPARATION	WALL	EBF AREA (m ²)	L.D. (m ²)	L/H OR H/L	REQUIRED FRR (H)	CONSTRUCTION TYPE	CLADDING TYPE	3.2.3.
3.23 PLUMBING FIXTURE REQUIREMENTS	RATIO: MALE:FEMALE = 50:50 EXCEPT AS NOTED OTHERWISE							
	FLOOR LEVEL/AREA	OCCUPANT LOAD	OBC SENTENCE	FIXTURES REQUIRED	FIXTURES PROVIDED			
	WOMENS W/C	9		2	3			
	MENS W/C	13		2	3			
	UNIVERSAL W/C	9		2	1			
3.24 ENERGY EFFICIENCY	COMPLIANCE PATH:							
	CLIMATIC ZONE:							
3.25 NOTES								

1 ALL REFERENCES ARE TO DIVISION B OF THE OBC UNLESS PRECEDED BY [A] FOR DIVISION A AND [C] FOR DIVISION C

OCCUPANT LOAD CALCULATIONS

MAX OCCUPANCY (OBC TABLE 3.1.17.1)																																				
ITEM	OCCUPANT LOAD			OCCUPANCY PROVIDED																																
GROUP C - DORMITORY	120/4.6=26			13M, 13F																																
GROUP D - OFFICES	<table border="1"> <thead> <tr> <th>Room</th> <th>Floor Area (sqm)</th> <th>Max. Occupancy (OBC Table 3.1.17.1)</th> <th>Occupancy Provided</th> </tr> </thead> <tbody> <tr> <td>Floor Watch</td> <td>28</td> <td>28/9.3=3.01</td> <td>3</td> </tr> <tr> <td>Captain Office 1</td> <td>14</td> <td>14/9.3=1.5</td> <td>2</td> </tr> <tr> <td>Captain Office 2</td> <td>15</td> <td>15/9.3=1.6</td> <td>2</td> </tr> <tr> <td>Fire Prevention Office</td> <td>83</td> <td>83/9.3=8.92</td> <td>9</td> </tr> <tr> <td>Fire Prevention</td> <td>19</td> <td>19/9.3=2.04</td> <td>2</td> </tr> <tr> <td>Work Room</td> <td>11</td> <td>11/9.3=1.18</td> <td>1</td> </tr> <tr> <td colspan="4" style="background-color: #cccccc;"></td> </tr> </tbody> </table>			Room	Floor Area (sqm)	Max. Occupancy (OBC Table 3.1.17.1)	Occupancy Provided	Floor Watch	28	28/9.3=3.01	3	Captain Office 1	14	14/9.3=1.5	2	Captain Office 2	15	15/9.3=1.6	2	Fire Prevention Office	83	83/9.3=8.92	9	Fire Prevention	19	19/9.3=2.04	2	Work Room	11	11/9.3=1.18	1					17
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GROUP F3 - INDUSTRIAL USES	<table border="1"> <thead> <tr> <th>Room</th> <th>Floor Area (sqm)</th> </tr> </thead> <tbody> <tr> <td>Apparatus Bay</td> <td>204</td> </tr> <tr> <td>Deacon Room</td> <td>10</td> </tr> <tr> <td>Gear Room</td> <td>33</td> </tr> <tr> <td colspan="2" style="background-color: #cccccc;"></td> </tr> </tbody> </table> <p style="text-align: right;">247sqm/46.0 = 5.3</p>			Room	Floor Area (sqm)	Apparatus Bay	204	Deacon Room	10	Gear Room	33			5																						
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TOTAL			48																																	

CITY OF MISSISSAUGA ZONING

SITE STATISTICS

FULL ADDRESS:	NINTH LINE RD
AREA:	2.22 HECTARES
EXISTING SITE:	UNDEVELOPED LAND WITH A NEIGHBORING AND COMMUNITY CENTER
BUILDING AREA:	1200M²
SITE ZONING:	OS2 PART 9: OPEN SPACE ZONE
PERMITTED USE:	ESSENTIAL EMERGENCY SERVICE [ZONING CLAUSE 2.19.5]
PARKING:	38 PARKING STALLS 4 ELECTRIC VEHICLE CHARGING STATIONS 4 BARRIER FREE PARKING STALLS (2- TYPE A, 2- TYPE B)
SETBACKS:	15m FRONT 5m BACK 3m LEFT SIDE 3m RIGHT SIDE

WASHROOM CALCULATION

ROOM/USE	OCC.LOAD	OBC REF.	CALCULATION	REQUIRED FIXTURE	PROVIDED
DORMITORY[3M,3F]	13	3.7.4.6	7F, 6M	1 FIXTURE	M: 1 WC, 1 SINK[x3] F: 1 WC, 1 SINK[x3]
CAPTAIN OFFICE[2]	2	3.7.4.7	15 / 14=1 1 / 2 = 0.5=1	1 FIXTURE	1 WC, 1 SINK[x2]
OFFICE	N/A	3.7.4.7	170 / 14=13 13 / 2 = 7M, 7F	1 FIXTURE	M:1 URINAL,1 WC, 1 SINK F:2 WC, 2 SINK

BARRIER FREE

USE	OBC REFERENCE	REQ. FIXTURES	PROVIDED FIXTURES
MALE	3.8.2.3.(3)	1 BARRIER FREE STALL	1 BARRIER FREE STALL
FEMALE	3.8.2.3.(3)	1 BARRIER FREE STALL	1 BARRIER FREE STALL

UNIVERSAL WASHROOM

NO. OF STOREYS	OBC REF.	REQUIRED	PROVIDED
1	3.8.2.3.(2)	1	1

LEED CHART



LEED v4 for BD+C: New Construction and Major Renovation

Project Checklist

Project Name: Mississauga Ninth Line Fire Station

Date: March 2020

Y ? N

Y	?	N	Credit	Integrative Process	1
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0	0	0	Location and Transportation			16
Y	?		Credit	LEED for Neighborhood Development Location	16	
Y	?		Credit	Sensitive Land Protection	1	
Y		N	Credit	High Priority Site	2	
Y			Credit	Surrounding Density and Diverse Uses	5	
Y			Credit	Access to Quality Transit	5	
Y		N	Credit	Bicycle Facilities	1	
Y			Credit	Reduced Parking Footprint	1	
Y			Credit	Green Vehicles	1	

0	0	0	Sustainable Sites			10
Y			Prereq	Construction Activity Pollution Prevention	Required	
Y			Credit	Site Assessment	1	
Y			Credit	Site Development - Protect or Restore Habitat	2	
Y			Credit	Open Space	1	
Y			Credit	Rainwater Management	3	
Y			Credit	Heat Island Reduction	2	
Y			Credit	Light Pollution Reduction	1	

0	0	0	Water Efficiency			11
Y			Prereq	Outdoor Water Use Reduction	Required	
Y			Prereq	Indoor Water Use Reduction	Required	
Y			Prereq	Building-Level Water Metering	Required	
Y			Credit	Outdoor Water Use Reduction	2	
Y			Credit	Indoor Water Use Reduction	6	
Y		N	Credit	Cooling Tower Water Use	2	
Y		N	Credit	Water Metering	1	

0	0	0	Energy and Atmosphere			33
Y			Prereq	Fundamental Commissioning and Verification	Required	
Y			Prereq	Minimum Energy Performance	Required	
Y			Prereq	Building-Level Energy Metering	Required	
Y			Prereq	Fundamental Refrigerant Management	Required	
Y		N	Credit	Enhanced Commissioning	6	
Y		N	Credit	Optimize Energy Performance	18	
Y			Credit	Advanced Energy Metering	1	
Y			Credit	Demand Response	2	
Y		N	Credit	Renewable Energy Production	3	
Y		N	Credit	Enhanced Refrigerant Management	1	
Y		N	Credit	Green Power and Carbon Offsets	2	

0	0	0	Materials and Resources			13
Y			Prereq	Storage and Collection of Recyclables	Required	
Y			Prereq	Construction and Demolition Waste Management Planning	Required	
Y			Credit	Building Life-Cycle Impact Reduction	5	
Y			Credit	Building Product Disclosure and Optimization - Environmental Product Declarations	2	
Y		N	Credit	Building Product Disclosure and Optimization - Sourcing of Raw Materials	2	
Y		N	Credit	Building Product Disclosure and Optimization - Material Ingredients	2	
Y			Credit	Construction and Demolition Waste Management	2	

0	0	0	Indoor Environmental Quality			16
Y			Prereq	Minimum Indoor Air Quality Performance	Required	
Y			Prereq	Environmental Tobacco Smoke Control	Required	
Y			Credit	Enhanced Indoor Air Quality Strategies	2	
Y			Credit	Low-Emitting Materials	3	
Y			Credit	Construction Indoor Air Quality Management Plan	1	
Y			Credit	Indoor Air Quality Assessment	2	
Y			Credit	Thermal Comfort	1	
Y			Credit	Interior Lighting	2	
Y			Credit	Daylight	3	
Y			Credit	Quality Views	1	
Y			Credit	Acoustic Performance	1	

0	0	0	Innovation			6
Y			Credit	Innovation	5	
Y			Credit	LEED Accredited Professional	1	

0	0	0	Regional Priority			4
Y	?		Credit	Regional Priority: Specific Credit	1	
Y	?		Credit	Regional Priority: Specific Credit	1	
Y	?		Credit	Regional Priority: Specific Credit	1	
Y	?		Credit	Regional Priority: Specific Credit	1	

62	22	40	TOTALS	Possible Points: 110
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Certified: 40 to 49 points, Silver: 50 to 59 points, Gold: 60 to 79 points, Platinum: 80 to 110

INTERIOR FINISHES

<u>ROOM NAME</u>	<u>FLOOR FINISH</u>	<u>WALL FINISH MATERIALS / PAINT COLOUR</u>
DINING ROOM	LIFEPROOF DRIFTWOOD BEACH VINYL PLANK FLOORING 6mm	GRAY OWL
KITCHEN	LIFEPROOF DRIFTWOOD BEACH VINYL PLANK FLOORING 6mm	GRAY OWL + STORM ACCENT
FITNESS ROOM	FIELD OF VIEW LIGHT TILE 12BY36 CARPET	CLASSIC GRAY
MEN'S/WOMEN'S DORM	FIELD OF VIEW LIGHT TILE 12BY36 CARPET	STONINGTON GRAY
CAPTAIN'S OFFICE 1	FIELD OF VIEW LIGHT TILE 12BY36 CARPET	CLASSIC GRAY + STORM ACCENT
CAPTAINS OFFICE 2	FIELD OF VIEW LIGHT TILE 12BY36 CARPET	CLASSIC GRAY + STORM ACCENT
FLOOR WATCH	LIFEPROOF DRIFTWOOD BEACH VINYL PLANK FLOORING 6mm	STONINGTON GRAY
VESTIBULE	LIFEPROOF DRIFTWOOD BEACH VINYL PLANK FLOORING 6mm	-
RESOURCE ROOM	FIELD OF VIEW LIGHT TILE 12BY36 CARPET	CLASSIC GRAY
FIRE PREVENTION	FIELD OF VIEW LIGHT TILE 12BY36 CARPET	STONINGTON GRAY
FIRE PREVENTION OFFICE	FIELD OF VIEW LIGHT TILE 12BY36 CARPET	STONINGTON GRAY
LOUNGE	FIELD OF VIEW LIGHT TILE 12BY36 CARPET	GRAY OWL + STORM ACCENT
KITCHENETTE	LIFEPROOF DRIFTWOOD BEACH VINYL PLANK FLOORING 6mm	GRAY OWL
JANITOR	MSI STONE VISION GLAZED 12x24 CERAMIC FLOOR TILE	CLASSIC GRAY
WOMEN'S WASHROOM	MSI STONE VISION GLAZED 12x24 CERAMIC FLOOR TILE	STONINGTON GRAY
MEN'S WASHROOM	MSI STONE VISION GLAZED 12x24 CERAMIC FLOOR TILE	STONINGTON GRAY
UNIVERSAL WASHROOM	MSI STONE VISION GLAZED 12x24 CERAMIC FLOOR TILE	STONINGTON GRAY
GEAR ROOM	CONCRETE FLOOR	STONINGTON GRAY
GARBAGE ROOM	CONCRETE FLOOR	CLASSIC GRAY
HUMID. ROOM	CONCRETE FLOOR	CLASSIC GRAY
MECH/ELEC. ROOM	CONCRETE FLOOR	CLASSIC GRAY
DECON ROOM	CONCRETE FLOOR	CLASSIC GRAY
WORK ROOM	CONCRETE FLOOR	CLASSIC GRAY
APPARATUS BAY	CONCRETE FLOOR	CLASSIC GRAY

CEILING FINISHES

ARKTURA ACCOUSTIC SYSTEMS

ACOUSTIC PERFORMANCE

TRACE®'S OPTIONAL SOFT SOUND® BACKER MATERIAL REDUCES THE IMPACT OF NOISE FROM EVERYDAY ANNOYANCES LIKE RINGING, TYPING, AND CHATTER RESULTING IN A MORE PLEASANT AND PRODUCTIVE ENVIRONMENT. THE SOFT SOUND® BACKER WORKS IN CONCERT WITH THE DESIGN TO HELP REDUCE AND CONTROL REVERBERATIONS LEAVING A LASTING IMPRESSION AT SCALES RANGING FROM ASSEMBLY HALLS TO CONFERENCE ROOMS.

INTEGRATED LIGHTING OPTIONS

ARKTURA'S TRACE® LINE MAKES IT EASY TO SEAMLESSLY ADD ILLUMINATION AND LIGHTING EFFECTS TO YOUR PROJECTS, THROUGH AVAILABLE INTEGRATED INLINE AND BACKLIGHTING OPTIONS.



PRODUCT OVERVIEW

LIFEPROOF DRIFTWOOD BEACH VINYL PLANK FLOORING 7mm

The Home Depot

Model # I04229L Store SKU # 1001302815

LIFEPROOF IS THE LATEST INNOVATION IN VINYL FLOORING AND IS EXCLUSIVELY SOLD AT THE HOME DEPOT. FEATURES SCRATCHPROTECT SURFACE COATING. THIS PRODUCT HAS A PRE-ATTACHED UNDERLAYMENT WHICH MINIMIZES SOUND AND ENHANCES WARMTH AND COMFORT UNDERFOOT. LIFEPROOF LUXURY VINYL FLOORING FEATURES A DROP-AND-LOCK INSTALLATION SYSTEM MAKING IT FAST AND EASY TO INSTALL. THIS FLOORING OFFERS AUTHENTIC COLOUR AND TEXTURE FOR A REALISTIC LOOK AND FEEL. LIFEPROOF IS BOTH PHTHALATE-FREE AND FORMALDEHYDE-FREE TO ENSURE PRODUCT SAFETY.

NEW SCRATCHPROTECT SURFACE COATING IS THE ULTIMATE IN SCRATCH AND STAIN RESISTANCE

PRE-ATTACHED UNDERLAYMENT PROVIDES A FLOOR THAT'S WARM, COMFORTABLE AND QUIET

EXTRA WIDE PLANKS ALLOW FOR QUICKER INSTALLATION AND PROVIDE A CLEAN, BEAUTIFUL LOOK

THIS PRODUCT CONTAINS ULTRA-FRESH TREATMENT WHICH INHIBITS THE GROWTH OF ODOR AND STAIN CAUSING MOLD AND MILDEW ON THE ATTACHED UNDERLAYMENT AND TOP SURFACE LAYER OF THE FLOORING

EASY TO MAINTAIN, NO-WAX FLOORING - SIMPLY CLEAN WITH A DUST MOP, VACUUM OR PH NEUTRAL CLEANER

PERFECT FOR COMMERCIAL APPLICATIONS

7 MM THICKNESS X 8.66 IN. WIDTH X 47.64 IN. LENGTH; 6 MIL WEAR LAYER



FIELD OF VIEW LIGHT TILE 12BY36 CARPET

Mohawk Group

Model # GT450 NUANCE LIGHT – 868

PRODUCT TYPE	Tile	SOIL RELEASE TECHNOLOGY	EcoSentry Soil Treatment
CONSTRUCTION	Tufted	DENSITY	5,944
MIN SQ YARD	No Minimum	WEIGHT DENSITY	107,009
SURFACE TEXTURE	Textured Patterned Multi-Colored Loop	BACKING MATERIAL	EcoFlex NXT
GAUGE	1/12 (47.00 rows per 10 cm)	INSTALLATION METHOD	Half Lap, Brick Ashlar, Random, Herringbone
TUFTED PILE WEIGHT	18 oz/yd ² (610 g/m ²)	SIZE	12" x 36" (30.48 cm x 91.44 cm)
FINISHED PILE THICKNESS	.109" (2.77 mm)	PATTERN REPEAT	Not Applicable
TOTAL THICKNESS	.245" (6.22 mm)	FOOT TRAFFIC RECOMMENDATION TARR	Heavy
STITCHES PER INCH	12.3 (48.43 per 10 cm)	GSA STAIN RELEASE	Pass
DYE METHOD	Solution Dyed	FLAMMABILITY	ASTM E 648 Class I (Glue Down)
FIBER TYPE	Duracolor® Tricolor Premium Nylon	SMOKE DENSITY	ASTM E 662 Less than 450
STAIN RELEASE TECHNOLOGY	Permanent, Built into Fiber	STATIC PROPENSITY	AATCC - 134 Under 3.5 KV



ENIGMA ZERA BIANCO 12 x 24 INCH RECTIFIED PORCELAIN TILE

The Home Depot

Model # 12-440 Store SKU # 1001072043

ADD STYLE AND A FUNCTIONALITY WITH THIS RECTIFIED, ELEGANT, LINEAR DESIGN MODERN PORCELAIN. THE COOL WHITE TONES OF THE ENIGMA 12 INCH X 24 INCH ZERA ANNEX BIANCO RECTIFIED PORCELAIN TILE WILL HELP ADD A CONTEMPORARY LOOK TO YOUR HOME AT A GREAT VALUE!

15.5 SQ. FT. /CASEPCS/CASE: 8

DESIGNED FOR FLOOR AND WALL APPLICATION

SUITABLE FOR WET/DRY AREAS BOTH INDOORS AND OUT

FOR BOTH COMMERCIAL AND RESIDENTIAL INSTALLATION

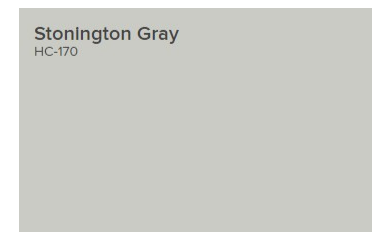
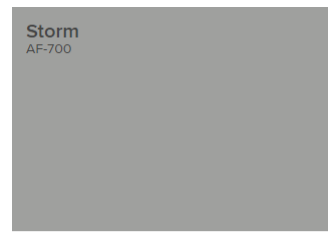
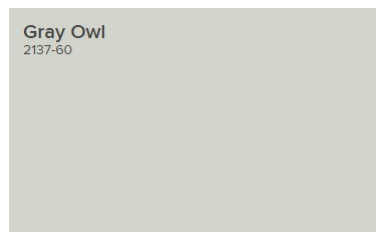
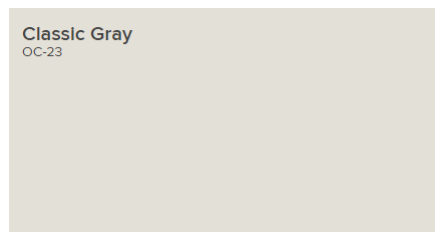
TILE TYPE: MATTE RECTIFIED PORCELAIN

PEI RATING 4



WALL FINISH – PAINT PALETTE

BENJAMIN MOORE



EXTERIOR FINISHES

Clearwall® Curtain Wall System

5/8" (15.9mm) exterior weather seal sightline

2-1/2" (63.5mm) interior metal sightline

Variable depth

High thermal performance

4-sided Toggle Glazed (TG)

Hurricane resistance



FUSION STONE - CARBON STONE EXTERIOR CLADDING

Carbon is characterized by dark, dusky and leaden greys in a blend with more neutral shades of cloudy silver.

Rugged, traditional visual effect.



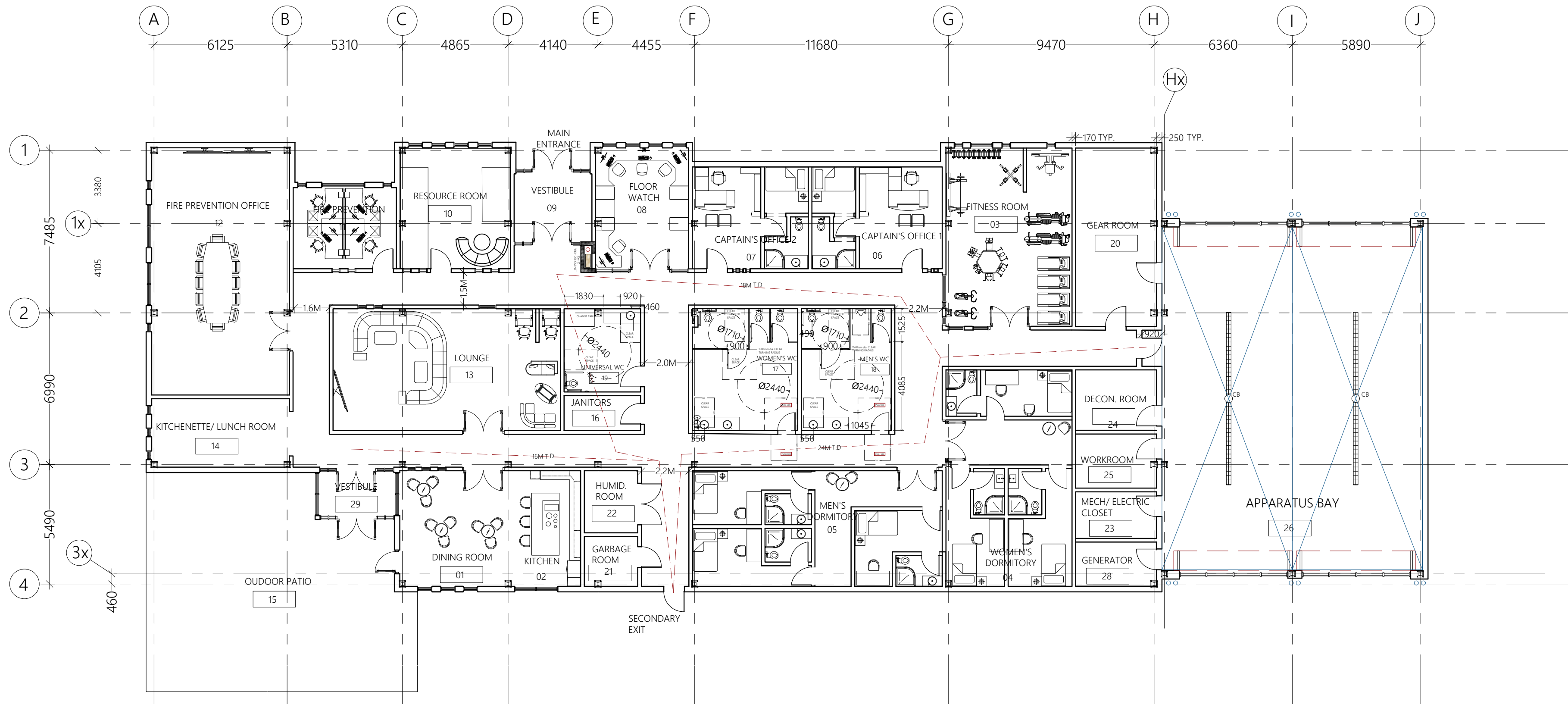
Proterra™ Split Brick

M-Lock technology ensures a stable structure, even in a true vertical installation.

This engineered retaining wall incorporates a reversible split/smooth texture for increased design options, as well as false joints on the smooth surface for added patterning and aesthetic appeal.

The coping-step unit is stocked in colours as an attractive, stand-alone system.





AREA Sq.M		
ROOM TAG	ROOM NAME	PROPOSED AREA
01	DINING ROOM	32.2
02	KITCHEN	28.0
03	FITNESS ROOM	61.2
04	WOMEN'S DORM.	52.8
05	MEN'S DORM.	52.8
06	CAPTAIN OFFICE 1	22.1
07	CAPTAIN OFFICE 2	22.0
08	FLOOR WATCH	34.6
09	VESTIBULE	15.6
10	RESOURCE ROOM	28.3
11	FIRE PREVENTION	17.7
12	FIRE PREVENTION OFF.	72.2
13	LOUNGE	58.7
14	KITCHENETTE	19.9
15	OUTDOOR PATIO	120.8
16	JANITORS	5.6
17	WOMEN'S WC	24.0
18	MEN'S WC	24.0
19	UNIVERSAL WC	14.0
20	GEAR ROOM	33.8
21	GARBAGE ROOM	36.1
22	HUMID. ROOM	2.3
23	MECH/ ELECT. ROOM	6.2
24	DECON. ROOM	6.3
25	WORKROOM	9.3
26	APPARATUS BAY	263.2

SYMBOL LEGEND	
SYMBOL	DEF.
	300x300 Steel Column
	Fire Hose Cabinet
	Exiting Travel Distance(m)
	LINEAR CATCH BASIN DRAIN
	CATCH BASIN
	BOLLARDS

NO.	REVISION/ISSUE	DATE

REVISED BY: - - -

DRAWN BY:
SIMRAN SANDHU
MARY ABUELFARAG

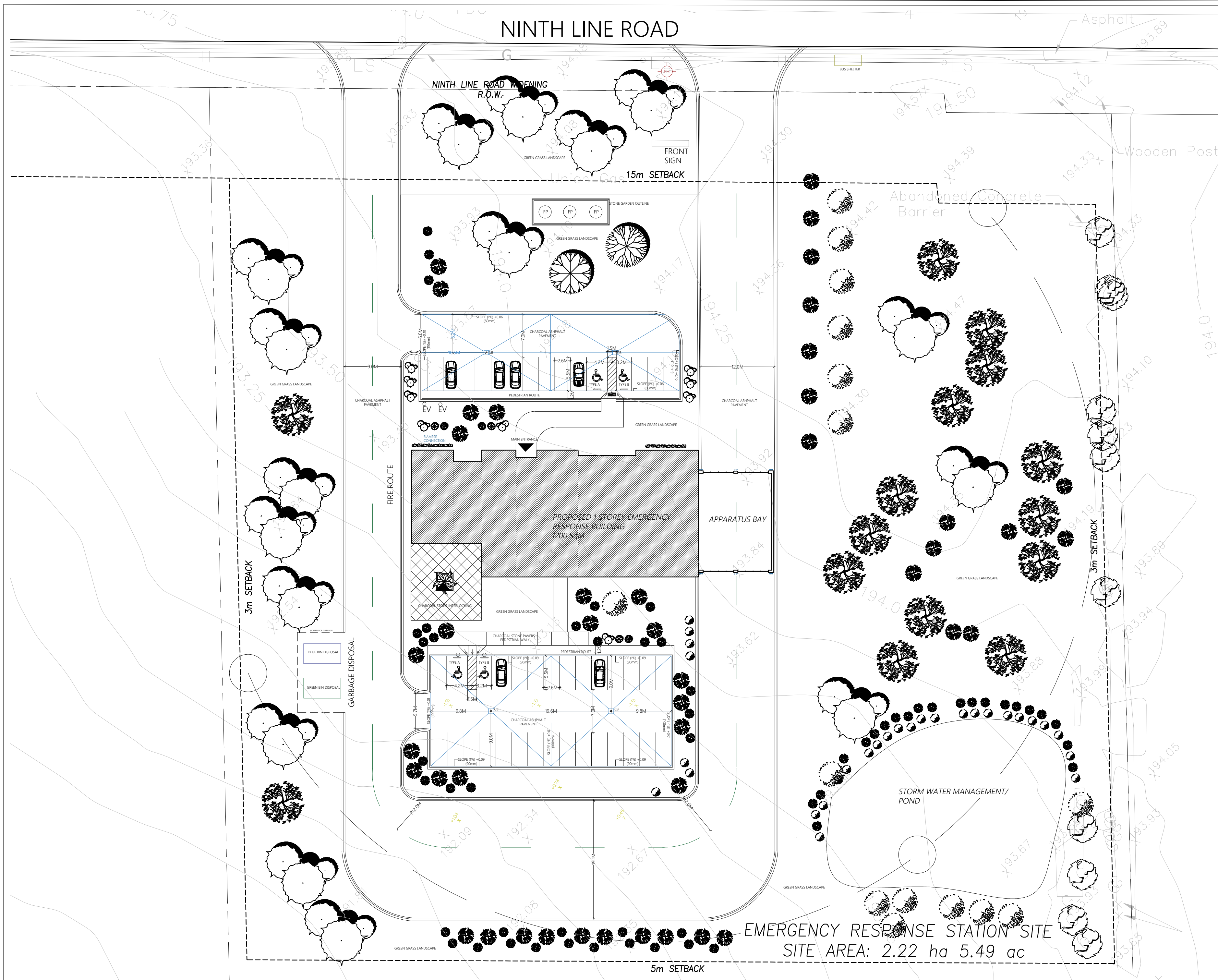
PROJECT NAME:
MAJOR PROJECT PHASE 1

ADDRESS:
4180 DUKE OF YORK BLVD.
MISSISSAUGA, ONTARIO
CANADA, L5P 0G5

DRAWING SHEET:
GROUND FLOOR PLAN

DATE: MAR 08, 2021
SCALE: 1:150
SHEET: A101

NINTH LINE ROAD



EMERGENCY RESPONSE STATION SITE
 SITE AREA: 2.22 ha 5.49 ac

SYMBOL LEGEND	
SYMBOL	DEF.
[Symbol]	Catch Basin W/ SLOPE% & LINES
[Symbol]	ELECTRIC VEHICLE CHARGING STATION
[Symbol]	+0.76 ADJUSTMENT CONTOURS
[Symbol]	FLAG POLE
[Symbol]	FIRE HYDRANT
[Symbol]	BOLLARDS

SIMRAN SANDHU
 SQUIRRELTAIL WAY
 BRAMPTON, ON L6R 1X4

SHERIDAN | ARCHITECTURE
 FACULTY OF APPLIED SCIENCE AND TECHNOLOGY
 ARCH ARCHITECTURAL STUDIO 4

NO.	REVISION/ISSUE	DATE

REVISED BY: _____
 DRAWN BY:
 SIMRAN SANDHU
 MARY ABUELFARAG
 PROJECT NAME:
 MAJOR PROJECT PHASE 1
 ADDRESS:
 4180 DUKE OF YORK BLVD.
 MISSISSAUGA, ONTARIO
 CANADA, L5P 0G5

DRAWING SHEET:
 SITE PLAN
 DATE: MAR 08, 2021 SHEET:
 SCALE: 1:500 **S01**

