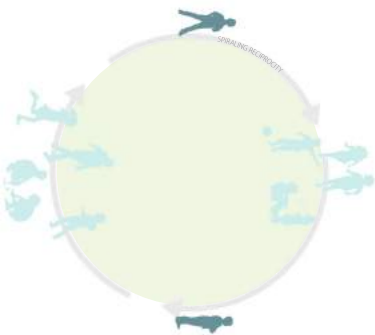


FLOWERING RECIPROcity

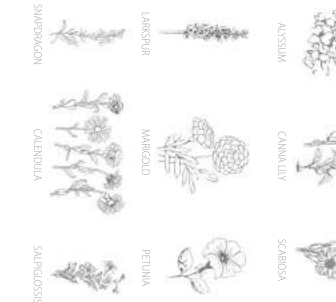
Brittany Sandie

Human well-being relies on both individual and social experiences that interrelate through a "reciprocal spiraling relationship" resulting in the growth of an individual or group. This concept is observed through the history of the community of Copper Cliff in their individual and congregational efforts to beautify their home surroundings (INCO Gardening Competition, INCO Greenhouse). The common connection between the building's programmatic elements are the indoor and outdoor green spaces. The function of the building offers the separate (invented) spaces for children and adults, connected by the social, environment spaces creating a "spiraling dynamic of reciprocal influences".

Source: Green and David's Vision, "Metabolic and Social Aspects of Energy" Review of Research in Education, 1998, Vol. 23, p. 134. Retrieved Educational Resources from the University of Toronto, 2020

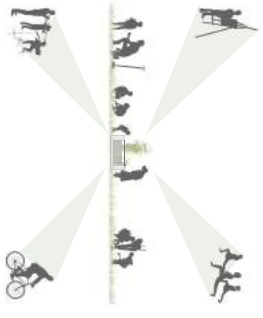


TYPES OF FLOWERS PLANTED IN NICKEl PARK AND AROUND COPPER CLIFF IN 1953
SUBMITTED TO ACH 3006 - DECEMBER 2020



COMMUNITY GREENHOUSE DISPLAYING MANY PLANTS THAT WERE PLANTED IN NICKEl PARK IN 1953
SUBMITTED TO ACH 3006 - DECEMBER 2020

CONNECTING MULTIPLE GENERATIONS THROUGH MANY ACTIVITIES
SUBMITTED TO ACH 3006 - DECEMBER 2020



CONGREGATIONAL

1. INCO GREENHOUSE
The Copper Cliff (INCO) Greenhouse opened in 1965 during the CO-OPERATION distributed government's Green Saturday Area. Many residents and their specifically, the greenhouse Chairman display planted many activities during the "Green" days, who shared a common interest to beautify the town of Copper Cliff.

2. COLLEMAN HOME
In 1976, a greenhouse was constructed at the Coleman Home. The intention of the area provided a place with plenty of activities to grow well.

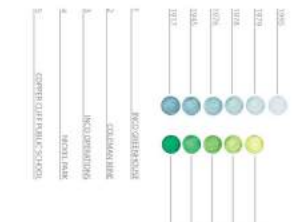
3. INCO OPERATIONS
Planted from the Copper Cliff greenhouse were transferred to all INCO operations in the Greater Sudbury Area to improve the quality of the working environment.

4. NICKEl PARK
A flower road was established in Nickel Park in the early 1970s. The flower road was established to honor the memory of the late Mrs. M. M. (Mae) and her family. The flower road was established to honor the memory of the late Mrs. M. M. (Mae) and her family. The flower road was established to honor the memory of the late Mrs. M. M. (Mae) and her family.

5. COPPER CLIFF PUBLIC SCHOOL
The students at the Copper Cliff Public School took part in the gardening and planting with the support of INCO. INCO provided the school with many seedlings and material planting for the students to participate in.

INDIVIDUAL

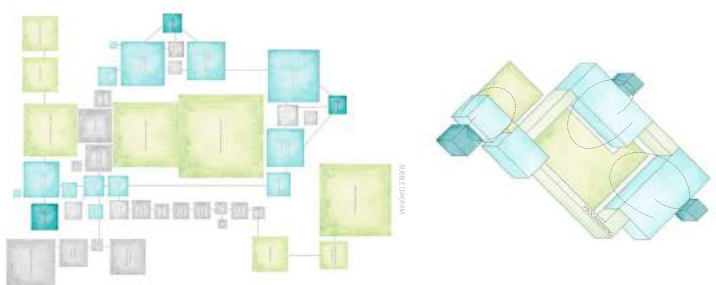
INCO GARDEN COMPETITION
The INCO Garden Competition began on April 28, 1915. The Canadian Copper Company offered prizes for the best annual garden displays. The competition was only open to amateur gardeners and included different classes such as lawn, kitchen garden and improvement. As the GIG continues to grow within Copper Cliff, the need for vegetation also grew which is seen in the number of winners from 1916-1972.



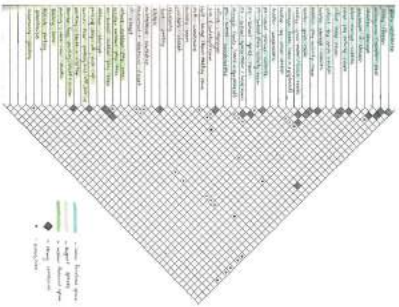
INCO GARDENING COMPETITION AND GREENHOUSES
SUBMITTED TO ACH 3006 - DECEMBER 2020

1916-1995

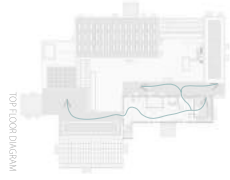
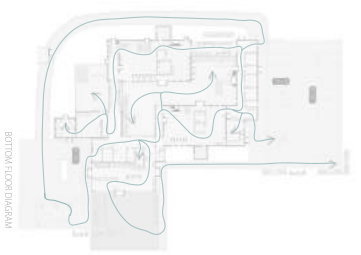




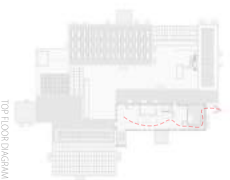
[Yellow swatch]	WINTER SOLSTICE SUN
[Light yellow swatch]	SUMMER SOLSTICE SUN
[White swatch]	NICHEL BAR
[Light blue swatch]	SUMMER PREVAILING WIND
[Dark blue swatch]	WINTER PREVAILING WIND
[Green swatch]	OUTDOOR GREEN SPACE
[Light green swatch]	INTROVERTED INTERIOR SPACES
[Dark green swatch]	EXTRAVERTED INTERIOR SPACES
[Grey swatch]	OTHER



The building is accessible for all people by maintaining a minimum unobstructed width of 1.5m throughout the buildings paths of travel



The building provides for a safe path of travel to the exterior of the building in the case of a fire



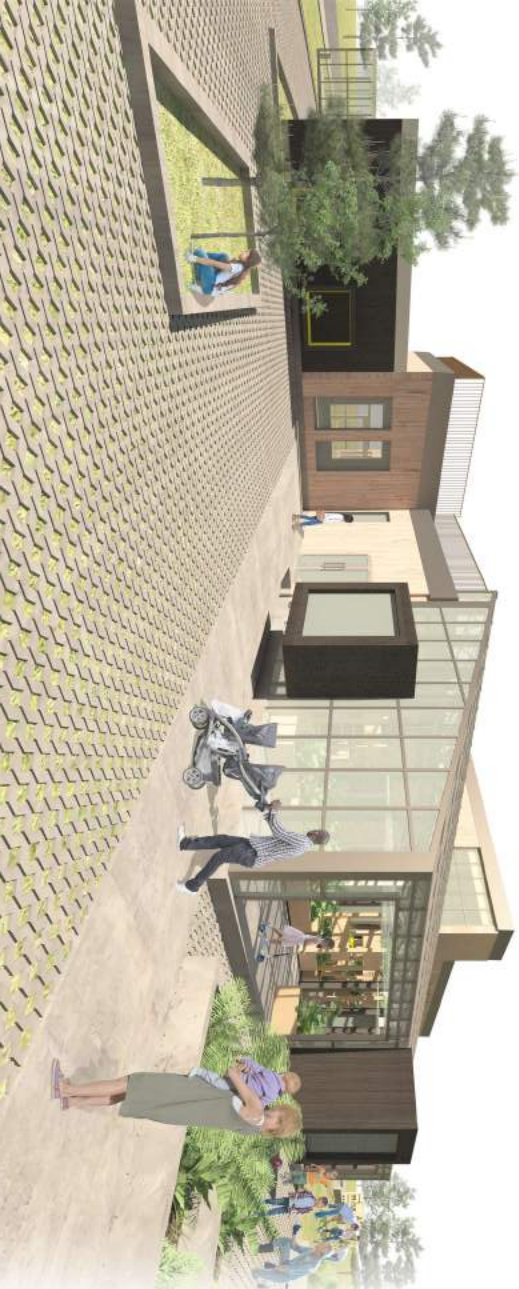
AXONOMETRIC MODEL ON SITE

Bribery Sander

SCALE 1:500



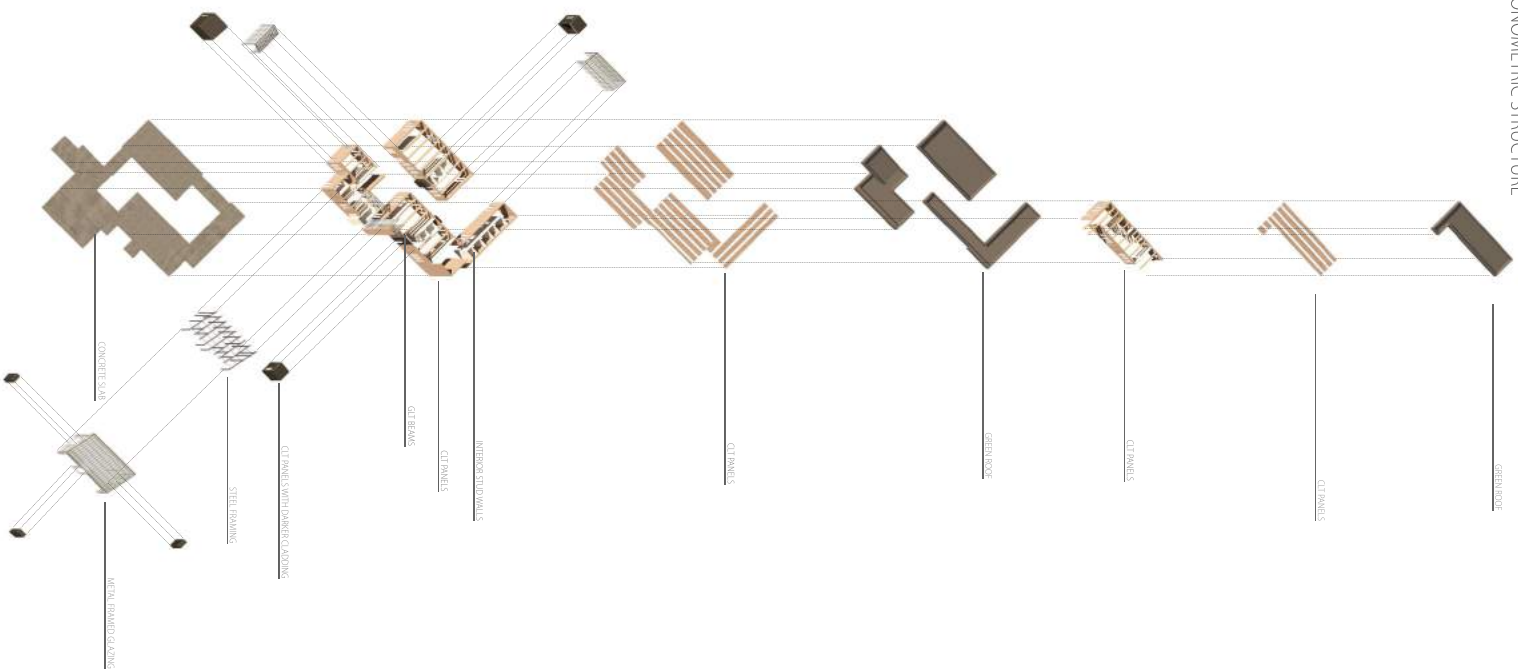
FRONT ENTRANCE VIEW FROM DROP OFF ZONE



EXPLODED AXONOMETRIC STRUCTURE

Bribery Sander

SCALE 1:500



CROSS SECTION

Brimley, Soudie



SOUTH ELEVATION

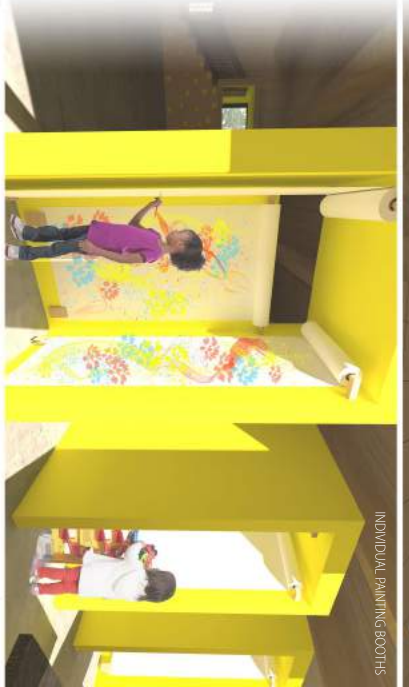
Brimley, Soudie



PRESCHOOL STORAGE CUBBIES



PRESCHOOL ACTIVITY ROOM



INDIVIDUAL PAINTING BOOTHS



TODDLER/PRESCHOOL OUTDOOR PLAY AREA

LONGITUDINAL SECTION

Brittany Sordie

Scale: 1/8" = 1'-0"



PRE-SCHOOL ACTIVITY ROOM
SECTION PERSPECTIVE

Scale: 1/8" = 1'-0"



PLANTER BEDS, OVERSEEN HOOP
JULIAN DUBOIS (2013) (CC BY-NC-SA)



OUTDOOR COMMUNITY GARDENS
LAWRENCE (2013) (CC BY-NC-SA)



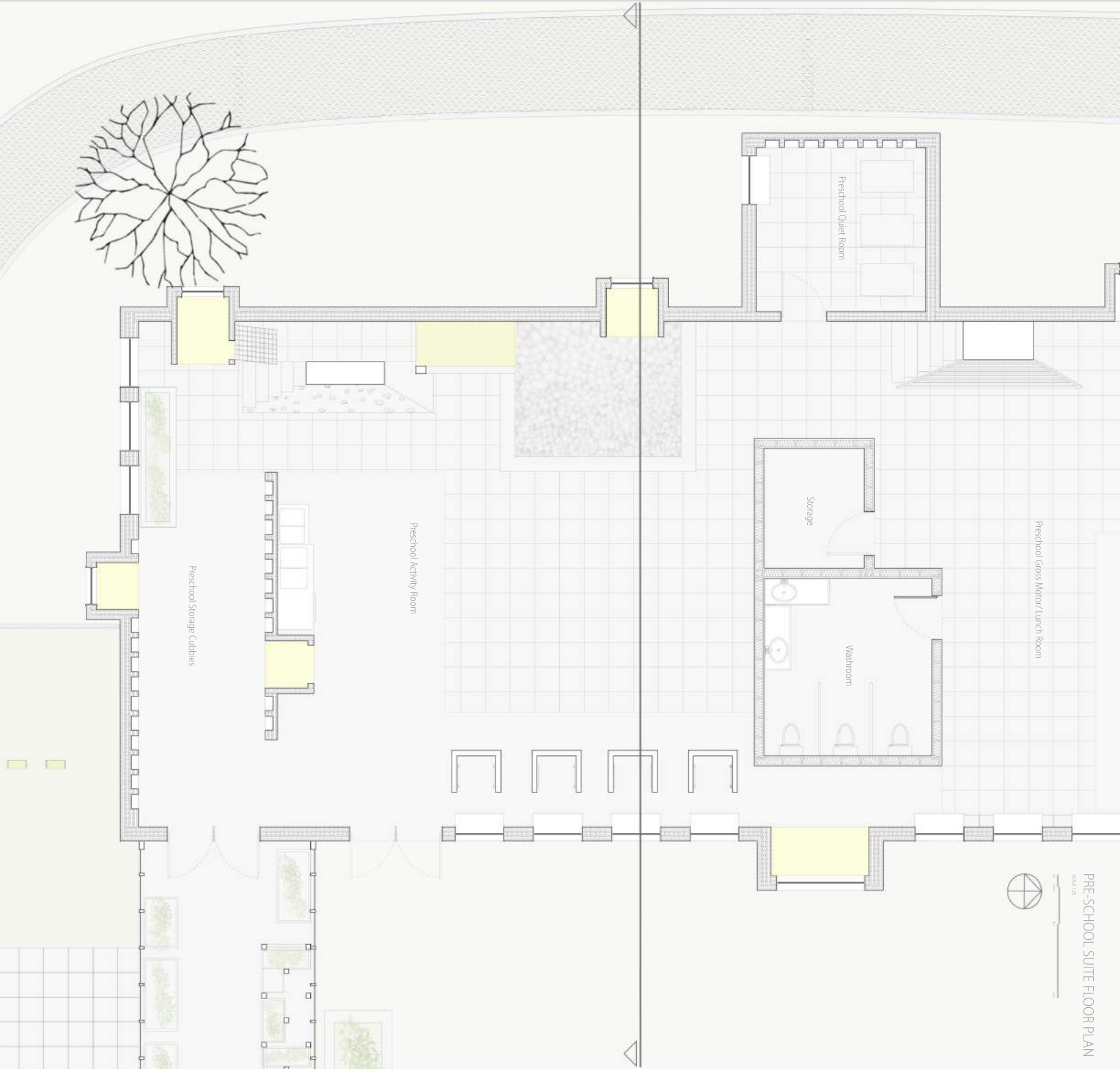
INTEGRATED OUTDOOR PLAY



INTEGRATED SLEEP ROOM



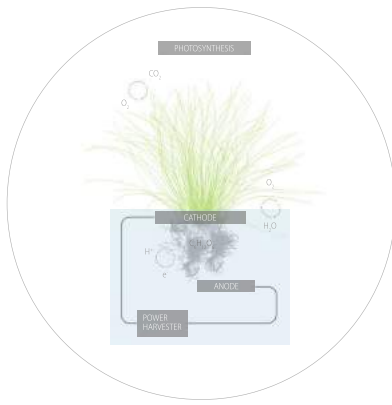
INTEGRATED SLEEP ROOM



PRE-SCHOOL SUITE FLOOR PLAN

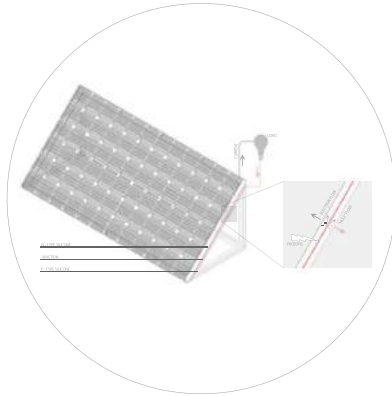
SCALE 1/8"





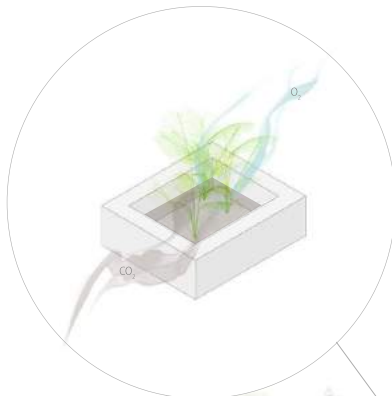
PLANT-E

The living plants located on the roof produce organic matter that is transported through its roots into the soil where bacteria break down the organic matter. During this process, electrons and protons are produced and the electrons flow through a power harvester to the cathode, where oxygen, protons and electrons meet. By placing two electrodes into the soil, green electricity is produced and used within the building.¹



SOLAR ENERGY

Photovoltaic panels are applied to the green roof area that are not serving as public spaces. The energy resulting in this system allows for the building to use renewable energy and extra energy can be used within the surrounding homes in Copper Cliff.²



AIR FILTRATION

Many plants are placed around the interior of the building, providing the interior spaces with clean air after it is filtered by the plants through the process of photosynthesis.³



¹ Plant-E: "Plants as living plants generate electricity" YouTube Video, 4:37. Accessed https://www.youtube.com/watch?v=Hujf_MQ2NtE, November 24, 2020.
² "Be a Spark of Nature" Plant-e.com. <https://www.plant-e.com/en/>, Accessed November 24, 2020.
³ Wilson, Ted. "Lecture 10 Renewables To Connect or Not Connect" Lecture 10, Laurier University, Sudbury, ON, December 3, 2020.