

Grey Bruce Mass Immunization Hub (Hockey Hub)

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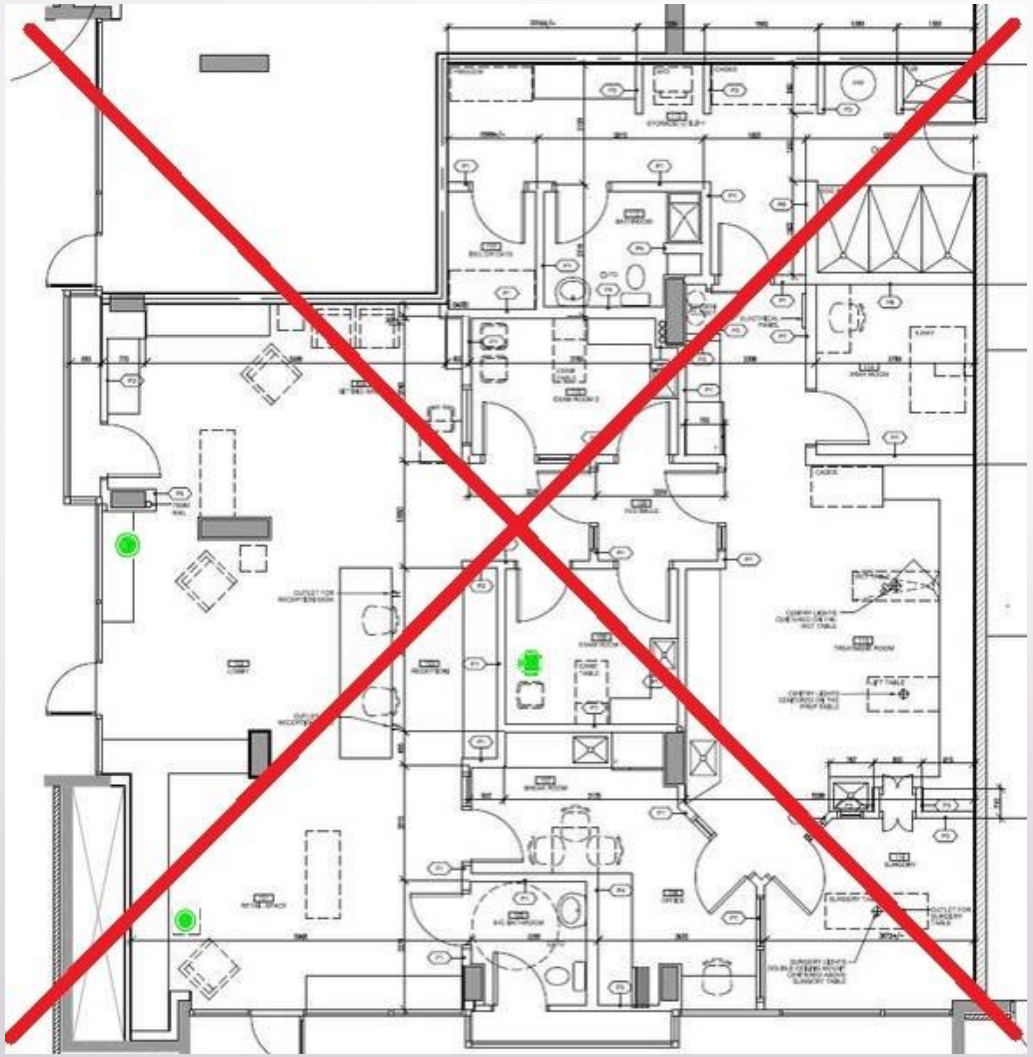
Standard Clinic Model

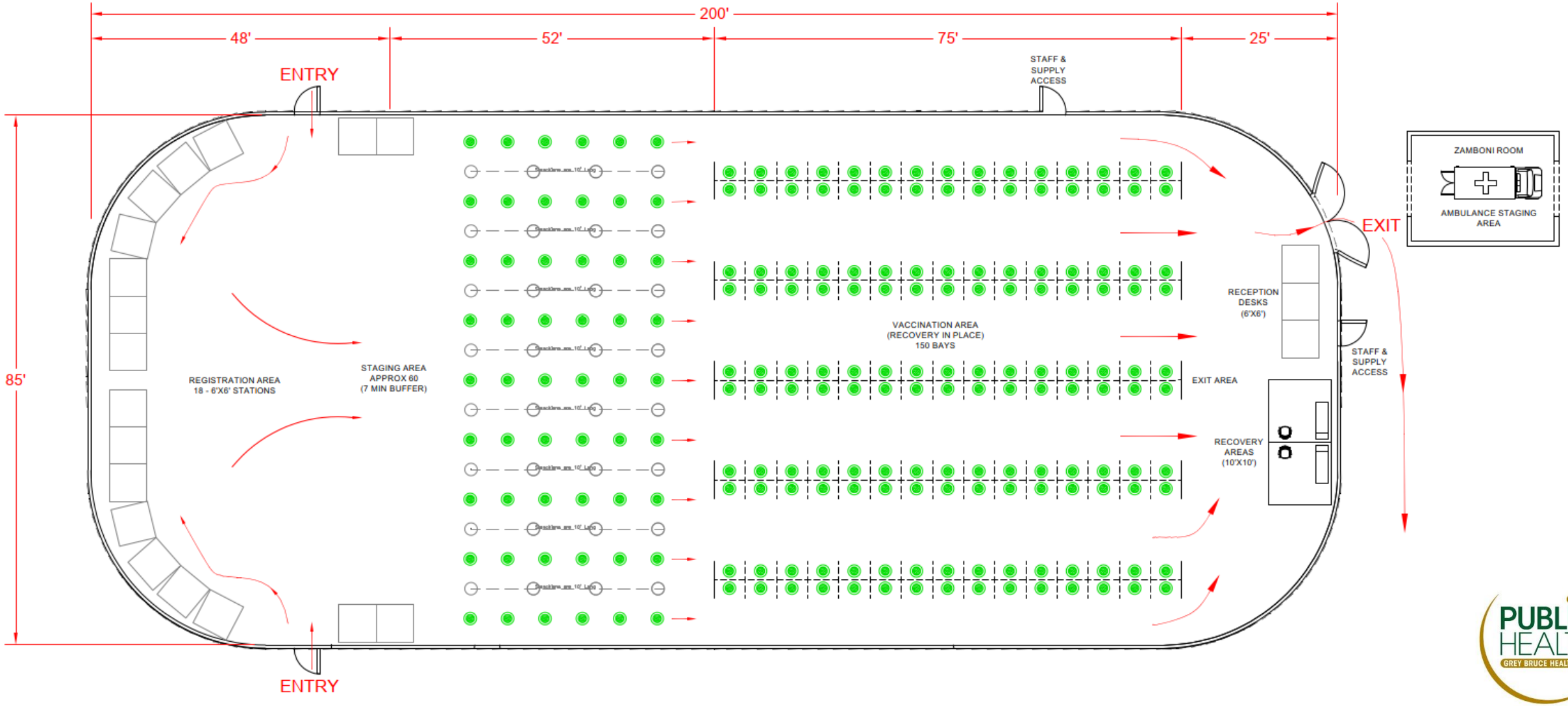
Vaccinates 400 people/day



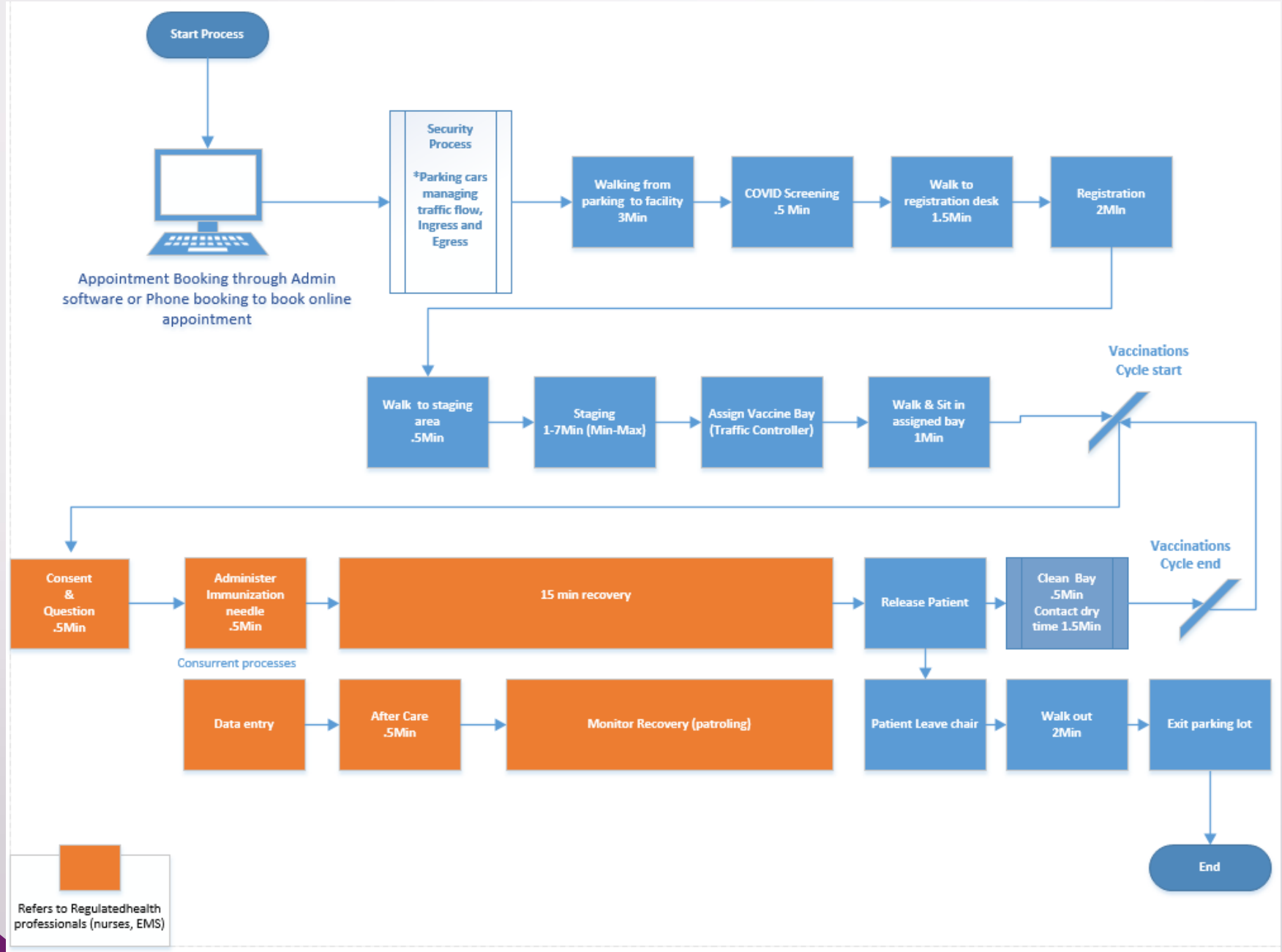
Traditional clinics are not designed for mass immunization

Mass Immunization Hub Model

Standard Rink vaccinates 4,500 people/day



Mass Immunization Hub Process Flow



Scalable:

- Base is the standard arena. Scale can be derived from:
- larger arenas
- multiple arenas on one site
- multiple sites

No need for prioritization, provide to all in a matter of days (Assuming sufficient supply of vaccine), saves unnecessary resources required for prioritization.

Relatively low Reaction Time (4 days)

Ubiquitous throughout Ontario and Canada, Plan is based on standard size hockey rink

Hockey Hub, Canadian Innovation

Limitation

- Parking and road access
- Supply of vaccine

Health Effects Comparison

Traditional Clinic Models	Hockey Hub Model
inefficiency in use of clinical staff	Minimal need of clinical staff Most tasks completed by non-clinical staff
Increase risk of injury/faint after vaccination related to client transition from immunization space to recovery area	Vaccination, and recovery in the same spot Reduce risk of injury/faint after vaccine
Risk of transmission related to touch surfaces. cleaning for “touch surfaces” as each client has 2-3 touch surfaces (waiting area, immunizing station and recovery station) Need to clean door-handles, elevators …	Decreased risk, decreased cleaning requirements for “touch surfaces” as each client has one touch surface (immunize and recovery in one spot) None

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Human Resource Comparison of Models

	Standard Clinic Model	Large Venue Clinic Model	Grey Bruce Mass Immunization Hub Model
Vaccinations per vaccinator/per hour	6	14	90
Clinic Volume/day	400	1,000	4,500
Resource	#'s	#'s	#'s
Supervisors	1	2	2
Immunizers (nurses)	8	20	5
response assistants	6	15	-
Checkout support	3	8	-
Door Screener	-	-	4
Clinical navigators	-	-	10
Traffic flow/monitoring	1	4	10
Registration attendants	-	-	16
Data entry - floor	-	-	5
After care - clinical	-	-	5
Security	1	1	3
Cleaners	1	1	5
# of immunizers for 3 concurrent clinics/hubs	24	60	15

Cost Comparison of Models in Grey Bruce

	Standard Clinic Model	Large Venue Clinic Model	Grey Bruce Mass Immunization Hub Model
Vaccinations per vaccinator/per hour	6	14	90
Clinic Volume/day	**1200**	**3,000**	**13,500**
Number of clinics per day	3	3	3
Population to be vaccinated	140,000	140,000	140,000
Comparison	$'s	$'s	$'s
Cost per model per day in thousands	11	25	27
Cost per 1,000 vaccines in thousands	26	26	6
Cost to vaccinate population (including x2) in millions	**7.4**	**7.2**	**1.7**
Comparison	Days	Days	Days
Raw days to vaccinate all of Grey and Bruce	234	94	21

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Mission and Strategic Use of Hub

To provide the Provincial Government with a successful pilot of a logistic hub for vaccine delivery all communities in Ontario and Canada whether be it urban, small-urban, or rural communities

Mission/Strategic Objective

The objective of the pilot is to prevent the danger of the pandemic (the hospital system's ability to care for COVID and non-COVID patients being challenged leading to death and suffering) by eliminating the following two scenarios in 4 weeks (assumption optimal vaccine supply):

- Increased demand: Hospital system overwhelmed by increased number of hospital admission of infected high-risk individuals (>65 year old, heart and lung disease)
- Decreased supply: Reduced hospital human resources by being in isolation (infected) or quarantined (exposed)

Mission/Strategic Objective

Resources in Grey and Bruce will be available to support Ontario hot spots:

- 3 hospital systems full capacity (no risk of capacity threat due to COVID-19 outbreaks)
- Public Health capabilities; and
- other available resources 3 COVID-19 filed hospitals

The prompt execution of the comprehensive pilot will be crucial in maintaining and maximizing public confidence that our Government is protecting the health and safety of Ontarians. Such confidence is instrumental in the success of the remainder of the emergency response.

Questions?

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