

## SUGGESTED QCH PART 4 EXPANSION CONSTRUCTION SEQUENCING

### FOR INFORMATION PURPOSES ONLY

NOTE:  
THE POSITION OF ALL POLE LINES, CONDUITS, WATERMAINS, SEWER LINES, UNDER UTILITIES AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

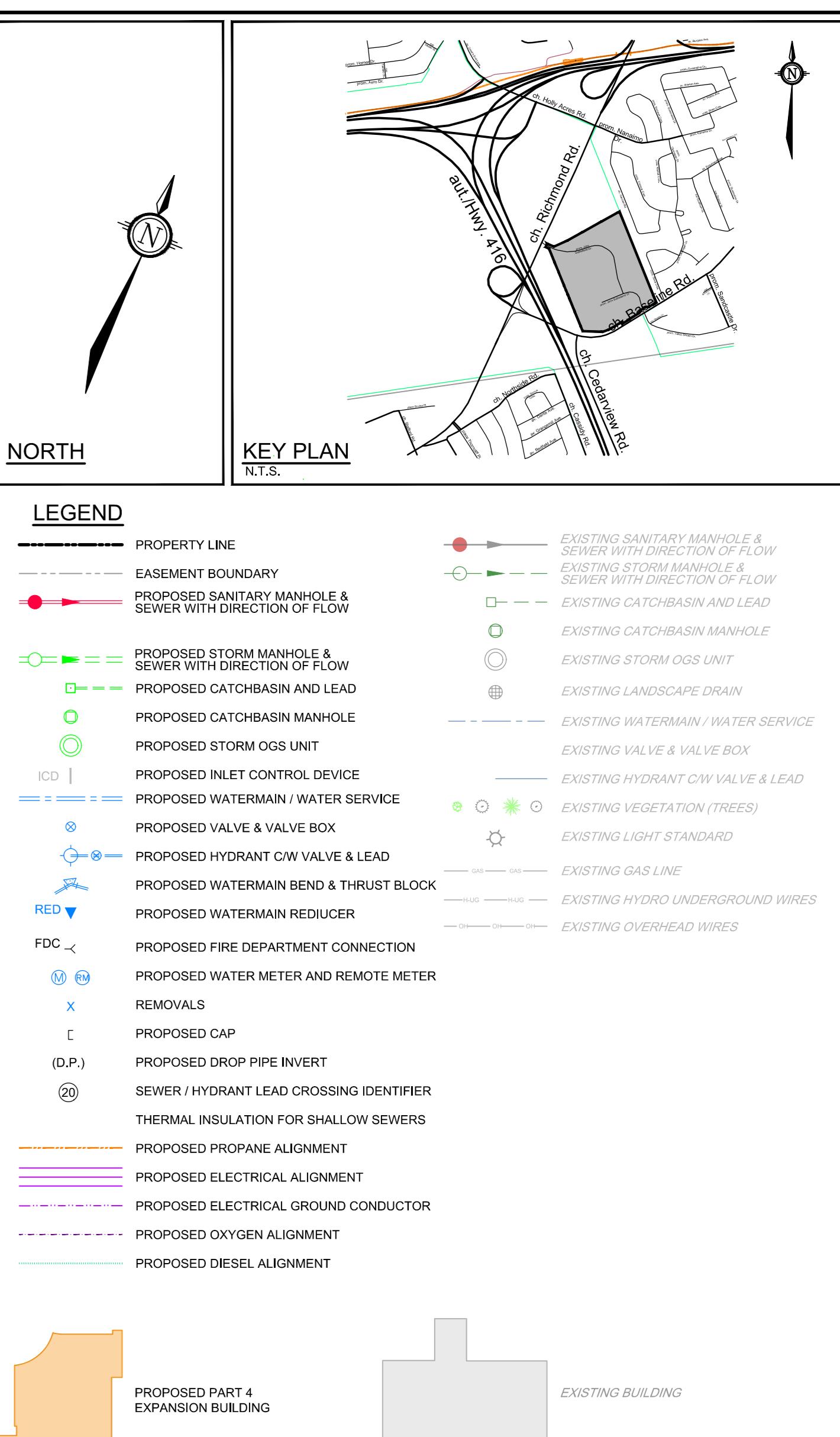
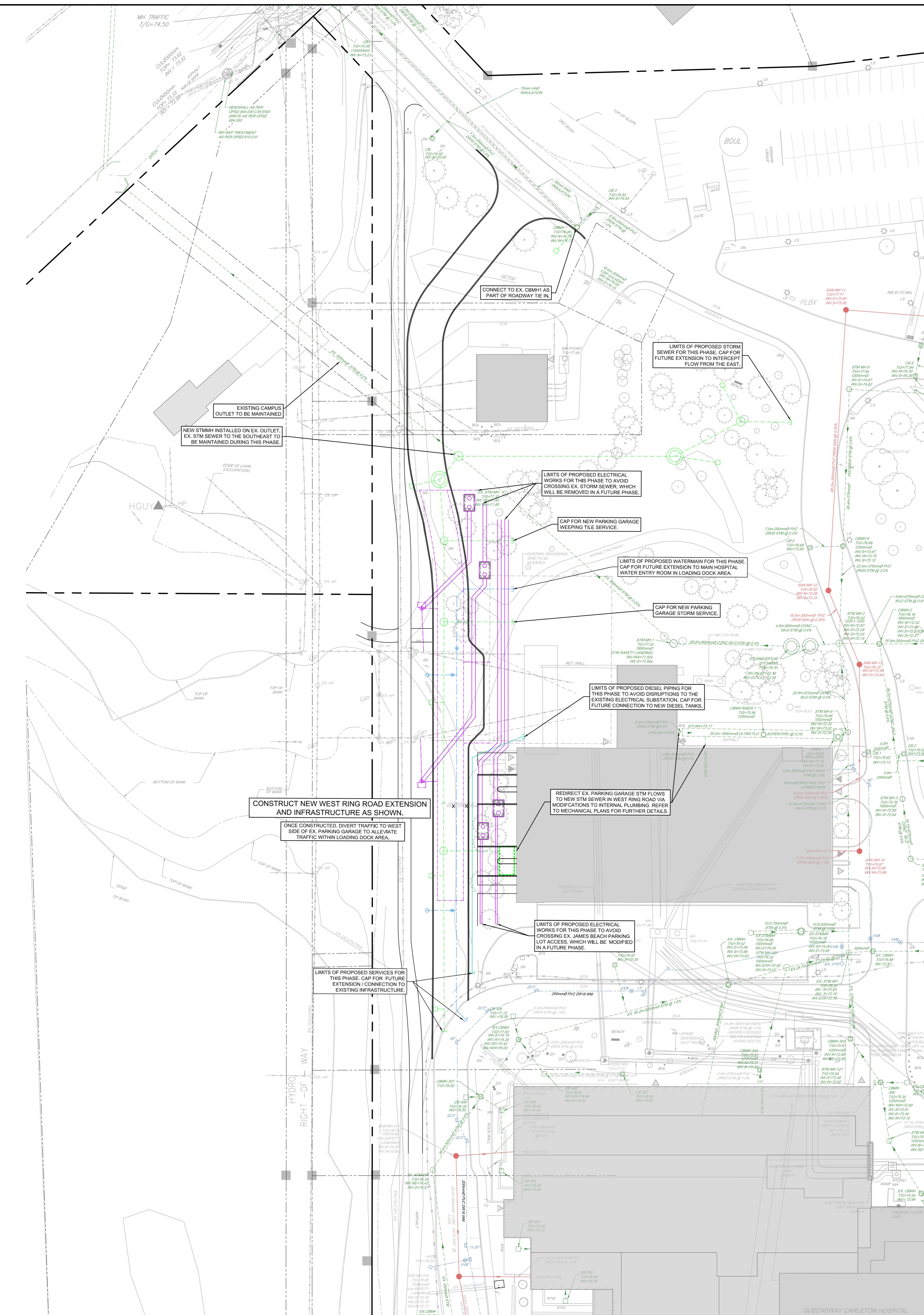


Queensway Carleton Hospital

1. ISSUED FOR INFORMATION	NOV 28/25	FST
No.	REVISION	DATE BY

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LOCATION	NOVATECH	PROJECT NO.
CITY OF OTTAWA QUEENSWAY CARLETON HOSPITAL	Engineers, Planners & Landscape Architects Suite 200, 220 Michael Cowpland Drive (613) 254-9643 (613) 254-5567 Telephone Facsimile Website <a href="http://www.novatech.com">www.novatech.com</a>	123089
DRAWING NAME	PROPOSED PART 4 EXPANSION SEQUENCING LOCATION PLAN	REV. #
		REV. #1
		DRAWING NO. 123089-GP-LP



**MAIN OBJECTIVES OF PHASE 1a:**

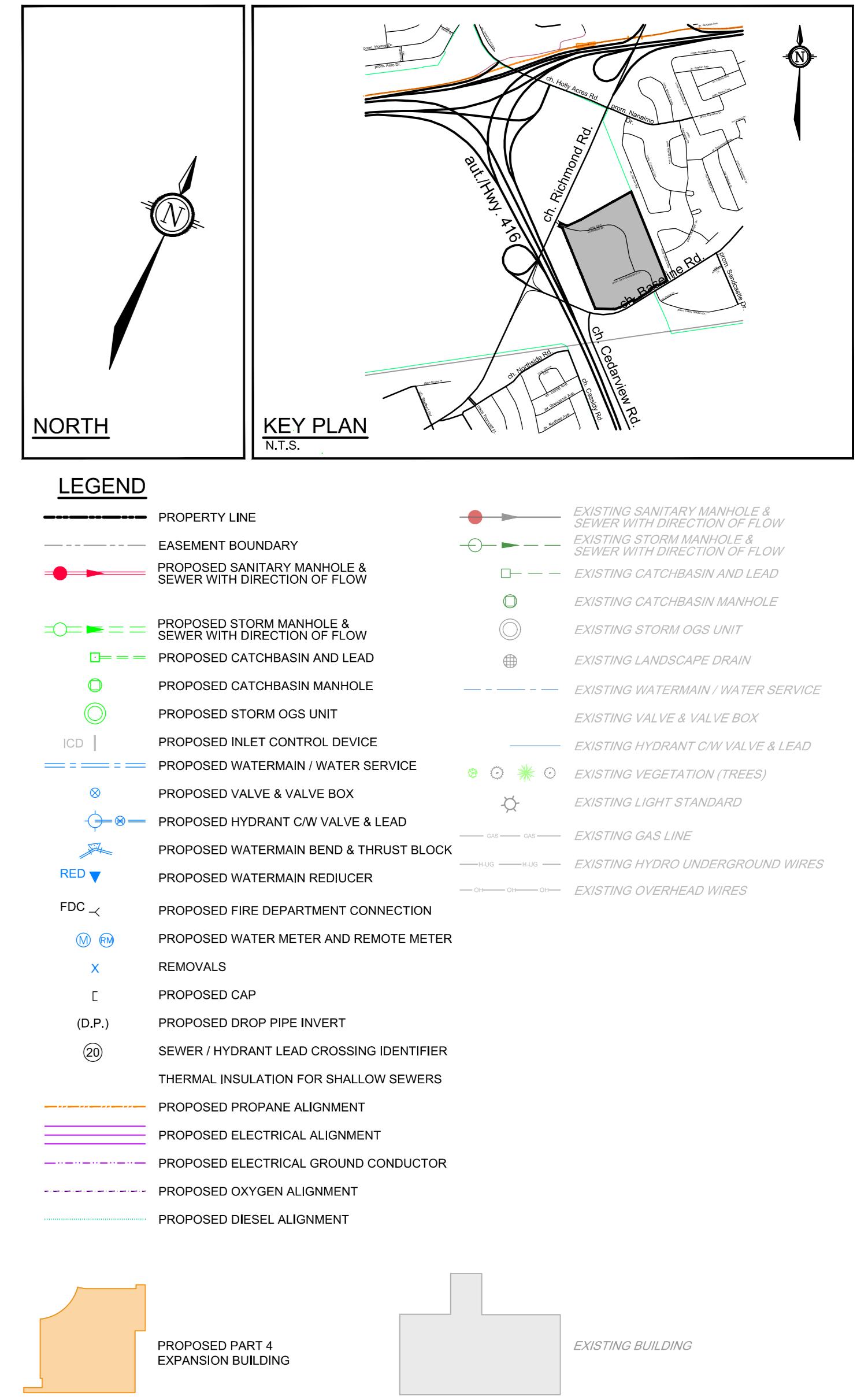
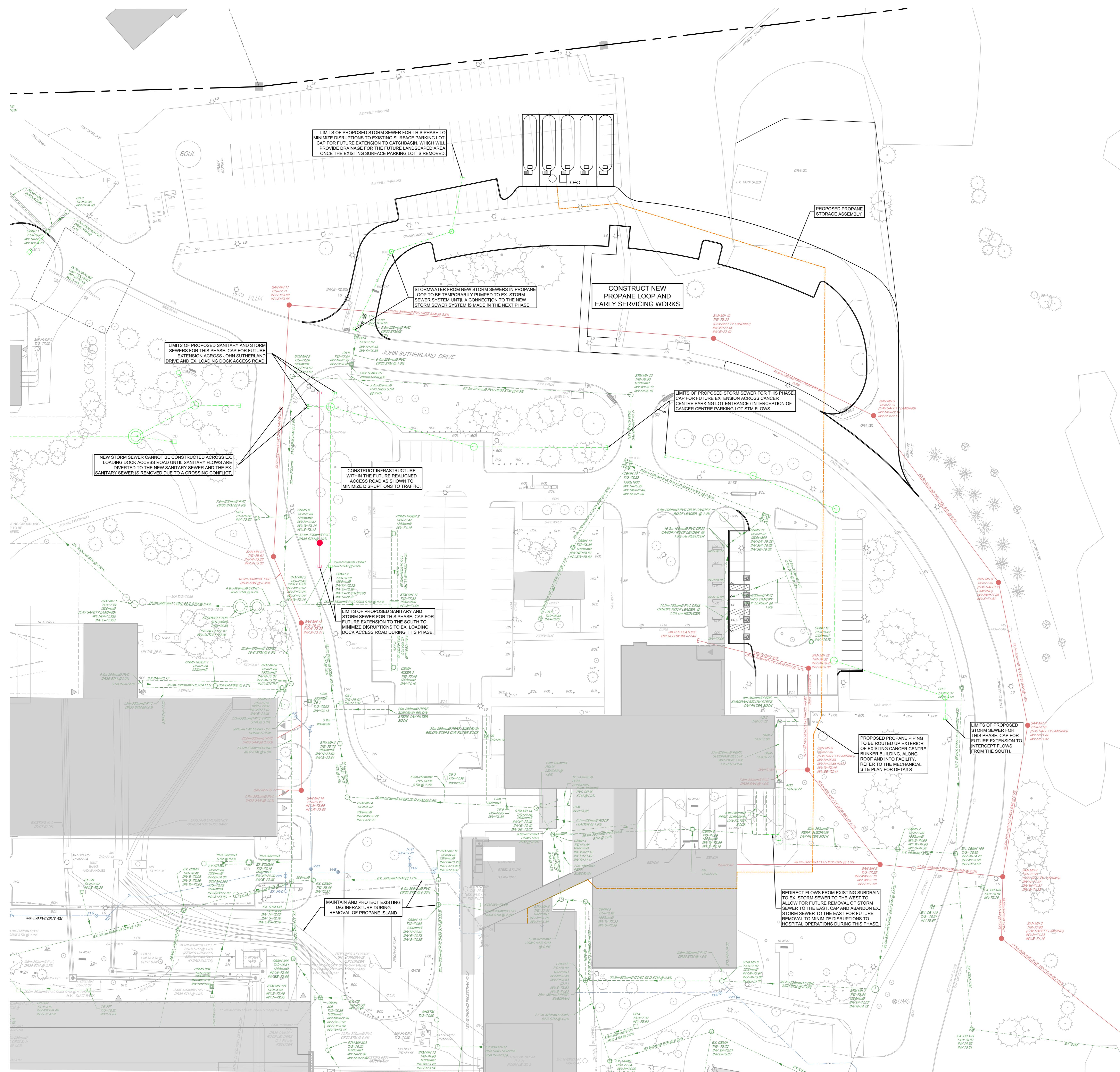
1. CONSTRUCT NEW WEST RING ROAD EXTENSION WITHIN EXISTING LANDSCAPED AREAS TO MINIMIZE DISRUPTIONS TO TRAFFIC AND SERVICING.
  - 1.a. ONCE COMPLETE, THE MAJORITY OF TRAFFIC (MAINLY CARS) WILL BE REDIRECTED TO THE WEST SIDE OF THE EXISTING PARKING GARAGE, THUS REDUCING LOADING DOCK TRAFFIC (MAINLY TRUCKS) WHICH WILL BE IMPACTED BY FUTURE CONSTRUCTION PHASES.
2. EXTEND NEW STORM SEWERS ON NORTH SIDE OF FUTURE PARKING GARAGE AND NEAR SOUTH ROADWAY TIE IN TO ACCOMMODATE DIVERTED STORM FLOWS IN A FUTURE PHASE.
  - 2.a. REDIRECT EXISTING PARKING GARAGE STORM FLOWS TO NEW STORM SEWER IN WEST RING ROAD VIA INTERNAL PLUMBING MODIFICATIONS.
    - 2.a.a. ONCE FLOWS ARE DIVERTED, THE EXISTING SUPERPIPE WILL NO LONGER BE IN USE AND CAN BE REMOVED IN FUTURE CONSTRUCTION PHASES.
  - 2.b. ALL EXISTING STORM FLOWS TRIBUTARY TO THE EXISTING STORM SEWER BELOW THE FOOTPRINT OF THE FUTURE PARKING GARAGE WILL ULTIMATELY NEED TO BE DIVERTED TO THE NEW STORM SEWER SYSTEM IN FUTURE PHASES
3. EXTEND NEW WATERMAIN, ELECTRICAL INFRASTRUCTURE, AND DIESEL LINE FOR FUTURE EXTENSION AND USE (I.E. NOT OPERATIONAL AT END OF PHASE).

STORM FLOWS MAY NEED TO BE TEMPORARILY PUMPED TO ACCOMMODATE THE REMOVAL OF EXISTING INFRASTRUCTURE AND THE CONSTRUCTION OF NEW INFRASTRUCTURE.

REFER TO PLANS 123089-GP1 AND 123089-GP2 FOR DETAILS

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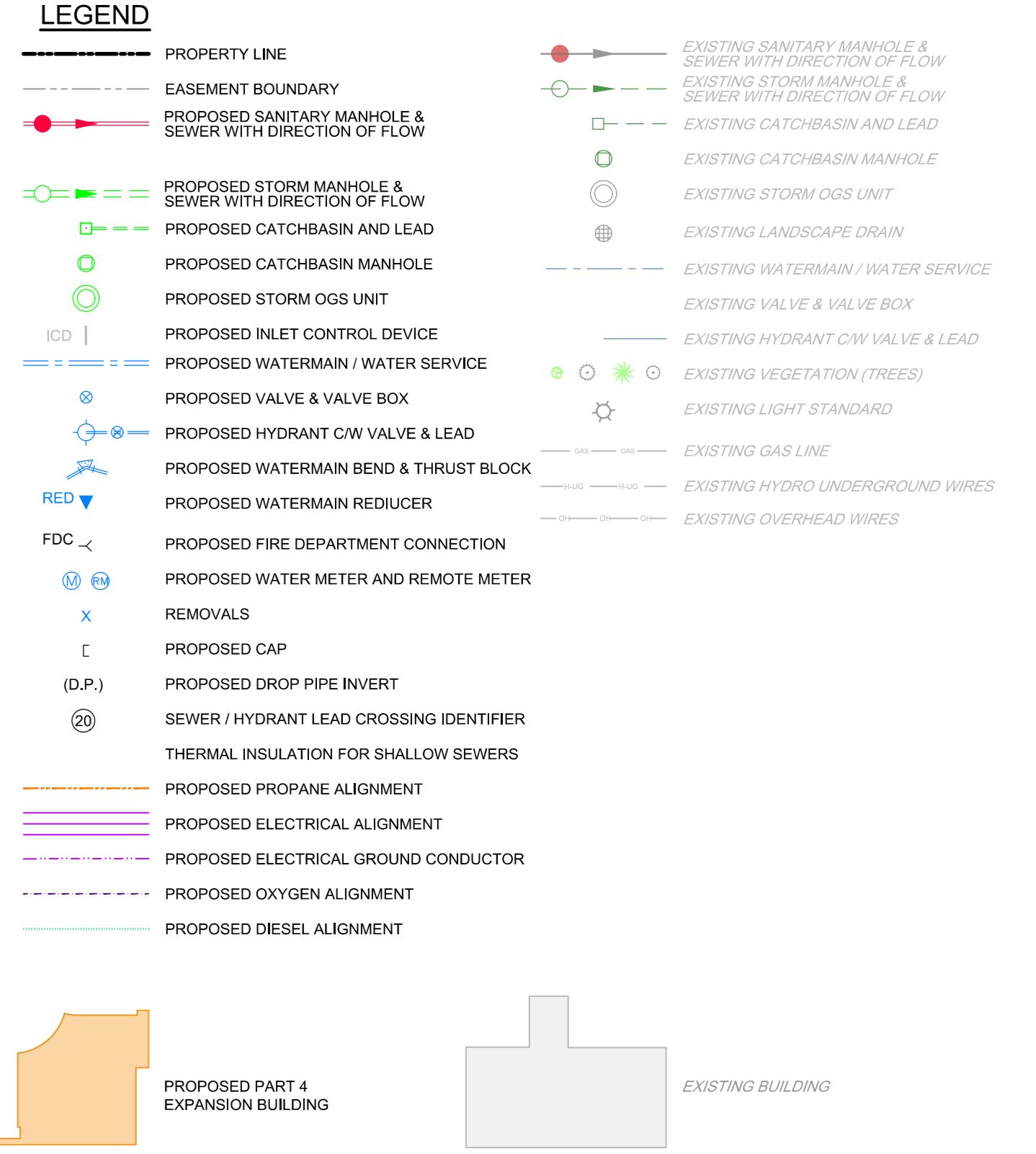
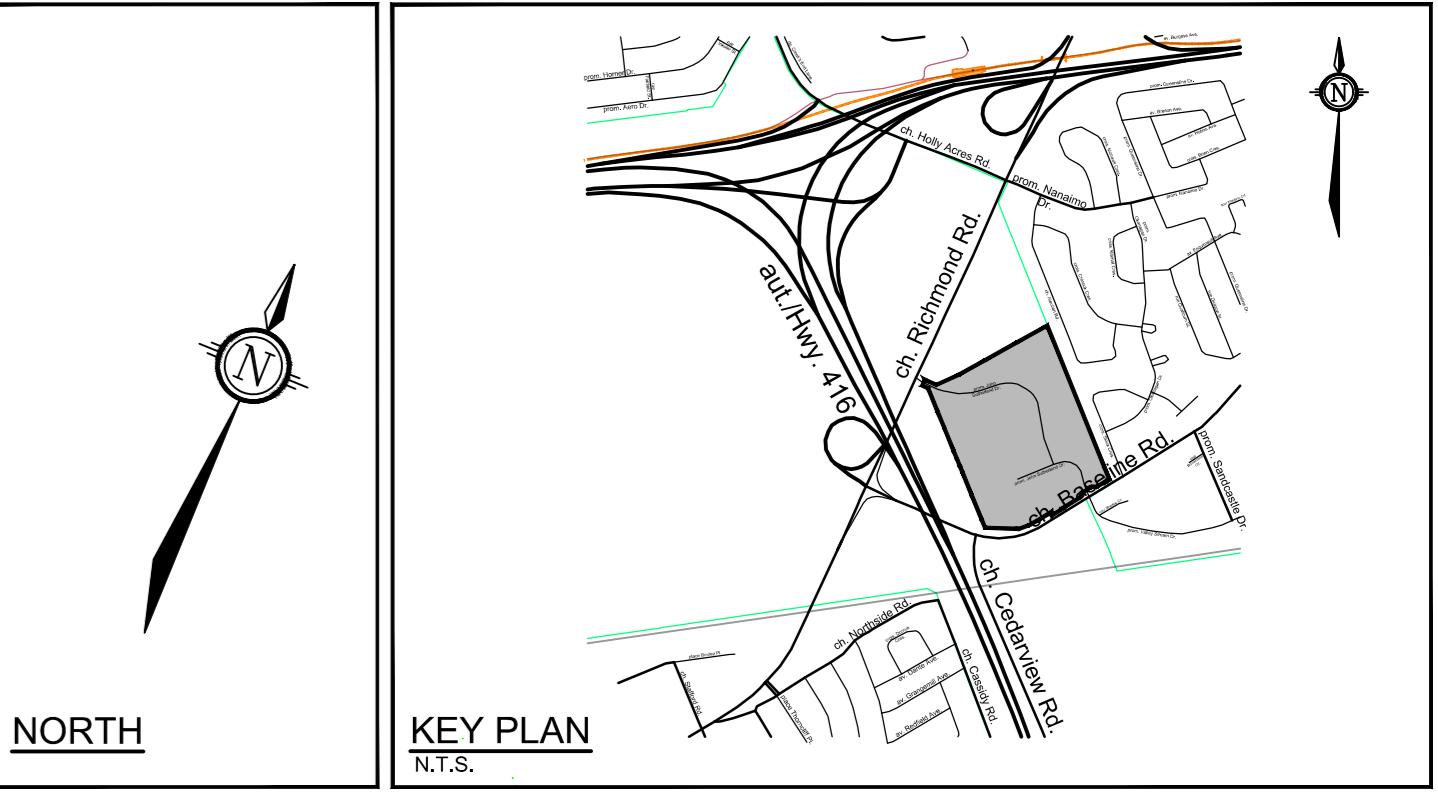
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**MAIN OBJECTIVES OF PHASE 1b:**

1. CONSTRUCT NEW PROPANE LOOP AND PIPING, THUS ALLOWING THE REMOVAL OF THE EXISTING PROPANE ISLAND WITHIN THE LOADING DOCK AREA.
  - 1.a. REMOVAL OF EXISTING PROPANE ISLAND REQUIRED TO ACCOMMODATE INTERIM TRUCK TURNING MOVEMENTS AND FUTURE CONSTRUCTION WORKS IN THE LOADING DOCK AREA.
2. CONSTRUCT PORTIONS OF THE NEW SANITARY AND STORM SEWERS ON THE EAST SIDE OF THE EXISTING LOADING DOCK ACCESS ROAD TO ACCOMMODATE CONSTRUCTION OF THE RE-ALIGNED LOADING DOCK ACCESS ROAD IN FUTURE PHASES.
  - 2.a. REMOVAL OF THE EXISTING LOADING DOCK ACCESS ROAD REQUIRED TO CONSTRUCT THE NEW PARKING GARAGE, SUB STATION, AND UNDERGROUND INFRASTRUCTURE.
3. EXTEND NEW STORM SEWERS ON NORTH AND EAST SIDES OF EXISTING CANCER CENTRE PARKING LOT TO ACCOMMODATE DIVERTED STORM FLOWS IN A FUTURE PHASE, WHILE MINIMIZING IMPACTS TO HOSPITAL OPERATIONS DURING CURRENT PHASE.

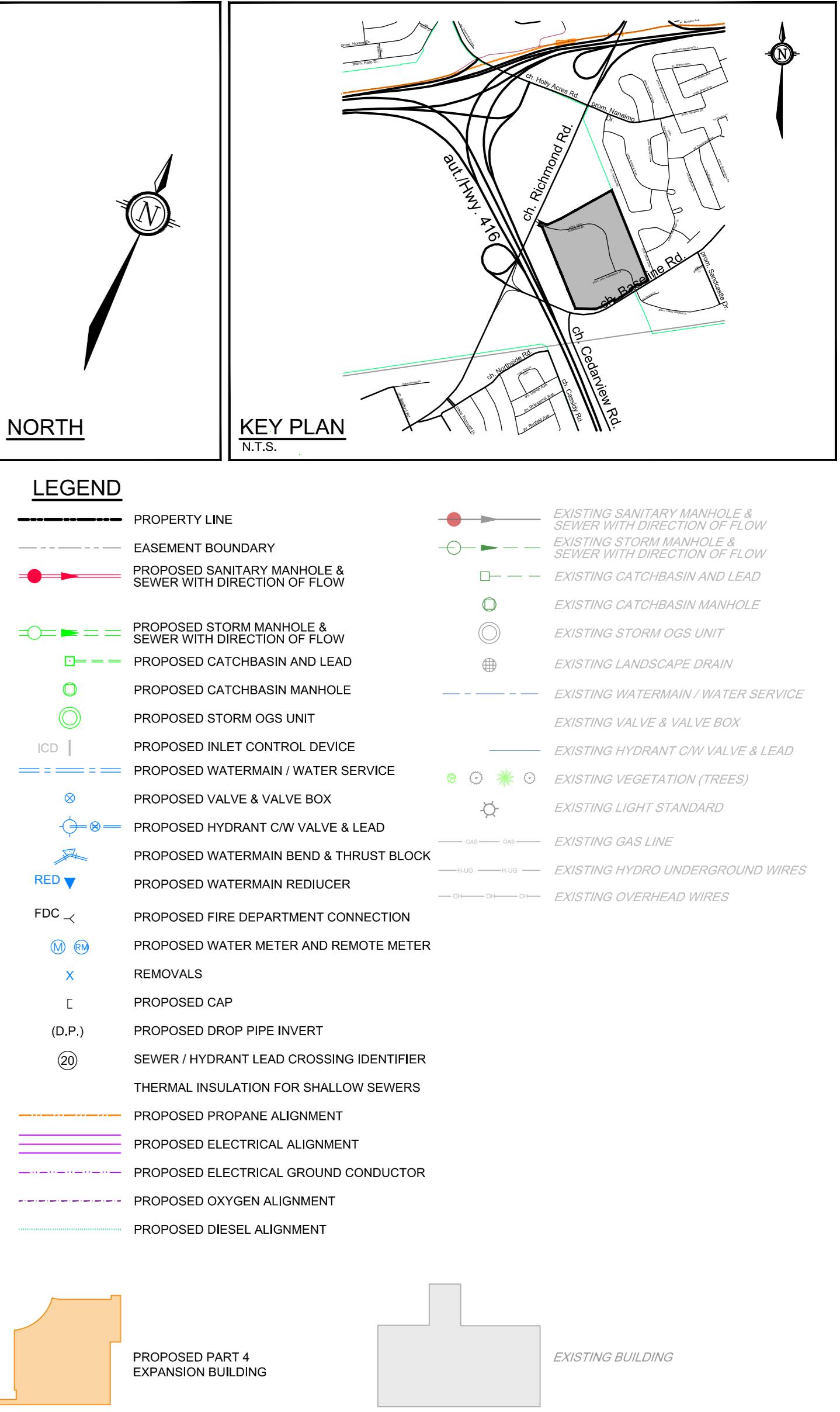
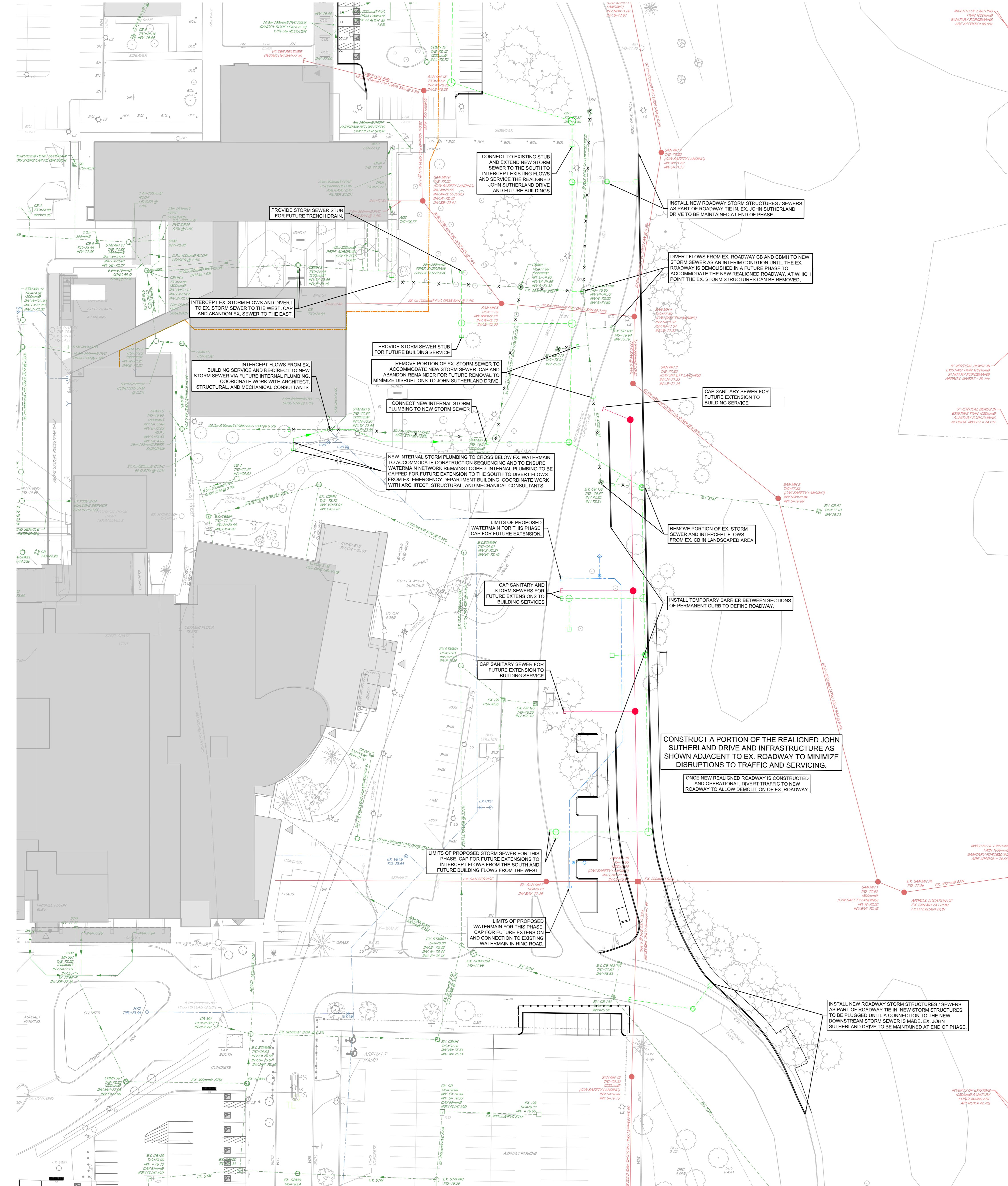
STORM FLOWS MAY NEED TO BE TEMPORARILY PUMPED TO ACCOMMODATE THE REMOVAL OF EXISTING INFRASTRUCTURE AND THE CONSTRUCTION OF NEW INFRASTRUCTURE.



**MAIN OBJECTIVES OF PHASE 1c:**

1. EXTEND NEW SANITARY SEWER ACROSS JOHN SUTHERLAND DRIVE AND CONNECT TO EXISTING SANITARY SEWER TO ALLOW DIVERSION OF EXISTING SANITARY FLOWS TO NEW SANITARY SEWER.
2. EXTEND NEW STORM SEWERS ACROSS JOHN SUTHERLAND DRIVE AND EXISTING LOADING DOCK ACCESS ROAD TO BE ABLE TO PROVIDE AN OUTLET FOR THE ROADWAY AND DIVERT EXISTING SANITARY FLOWS.
  - 2.a. NEW STORM SEWER ACROSS EXISTING LOADING DOCK ACCESS CANNOT BE CONSTRUCTED UNTIL SANITARY FLOWS ARE DIVERTED TO THE NEW SANITARY SEWER AND EXISTING SANITARY SEWER IS REMOVED DUE TO CROSSING CONFLICT.
3. EXTEND NEW STORM SEWER ACROSS CANCER CENTRE ACCESS AND CONNECT TO EXISTING STORM SEWER, THUS DIVERTING EX. CANCER CENTRE PARKING LOT FLOWS TO NEW STORM SEWER.
  - 3.a. EXISTING CANCER CENTRE PARKING LOT FLOWS CANNOT BE DIVERTED TO NEW STORM SEWER UNTIL A CONNECTION TO THE DOWNSTREAM OUTLET IS PROVIDED (I.E. NEW STORM SEWER ACROSS EXISTING LOADING DOCK ACCESS IS CONSTRUCTED AND OPERATIONAL UP TO OUTLET).

SEWAGE FLOWS MAY NEED TO BE TEMPORARILY PUMPED TO ACCOMMODATE THE REMOVAL OF EXISTING INFRASTRUCTURE AND THE CONSTRUCTION OF NEW INFRASTRUCTURE.



## **OBJECTIVES OF PHASE 1d:**

- CONSTRUCT REALIGNED PORTION OF JOHN SUTHERLAND DRIVE WITHIN LANDSCAPED AREAS TO MINIMIZE DISRUPTIONS TO TRAFFIC AND SERVICING.  
ONCE COMPLETE, TRAFFIC WILL BE REDIRECTED TO THE REALIGNED ROADWAY TO ALLOW DEMOLITION OF THE EXISTING ROADWAY IN FUTURE CONSTRUCTION PHASES.
- EXTEND NEW STORM SEWERS ACROSS THE EXISTING JOHN SUTHERLAND DRIVE TO BE ABLE TO DIVERT EXISTING AND NEW ROADWAY STORM FLOWS TO THE NEW STORM SEWER.  
ALL EXISTING STORMWATER FLOWS TRIBUTARY TO THE EXISTING STORM SEWER BELOW THE FOOTPRINT OF THE FUTURE INTERIM LOADING DOCK WILL NEED TO BE DIVERTED TO THE NEW STORM SEWER SYSTEM IN FUTURE PHASES.
- ONCE COMPLETE, A PORTION OF THE EXISTING STORM SEWER SYSTEM CAN BE REMOVED TO ACCOMMODATE THE REDIRECTION OF STORM FLOWS FROM THE EXISTING BUNKER TO THE NEW STORM SEWER VIA FUTURE INTERNAL PLUMBING.  
INTERNAL PLUMBING TO BE USED BELOW THE FOOTPRINT OF THE FUTURE EMERGENCY DEPARTMENT ADDITION TO MAINTAIN STORM OUTLET FOR EXISTING EMERGENCY DEPARTMENT DURING FUTURE CONSTRUCTION PHASES. ALIGNMENT OF INTERNAL PLUMBING TO BE COORDINATED WITH THE ARCHITECT, MECHANICAL, AND STRUCTURAL CONSULTANTS.
- EXTEND NEW SANITARY SEWERS AND WATERMAIN FOR FUTURE EXTENSION AND USE

WATER FLOWS MAY NEED TO BE TEMPORARILY PUMPED TO ACCOMMODATE THE REMOVAL OF EXISTING INFRASTRUCTURE AND THE CONSTRUCTION OF NEW INFRASTRUCTURE.

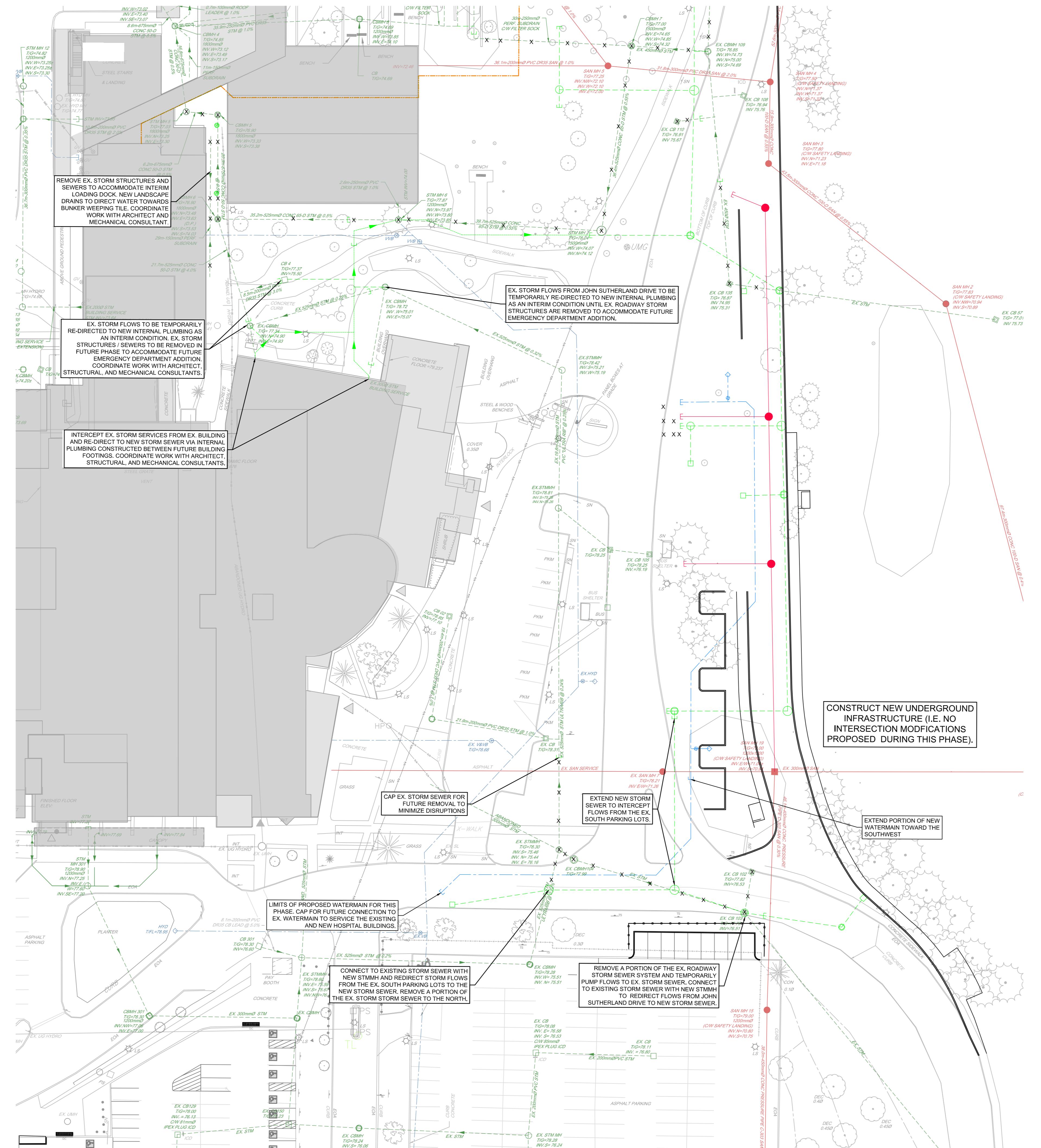
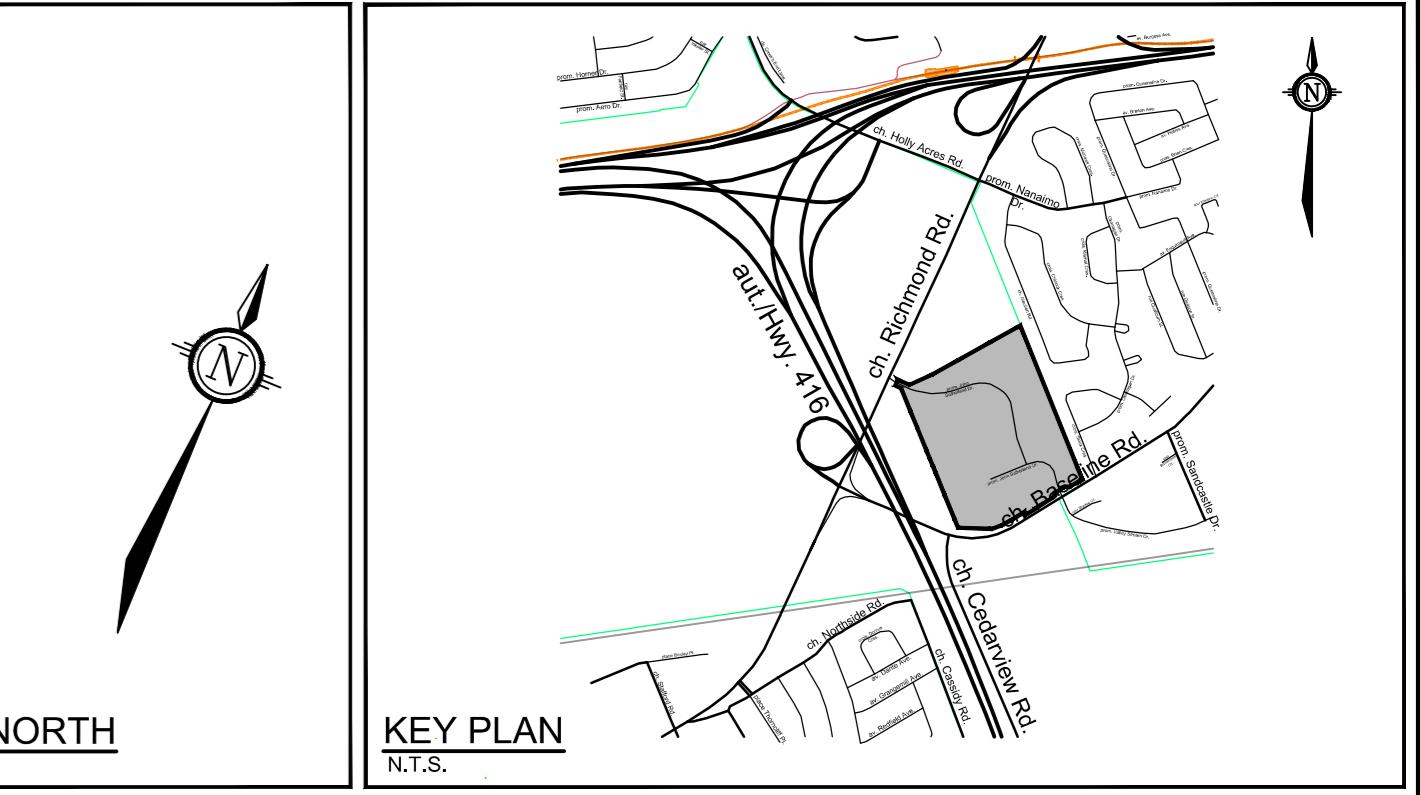
REFER TO PLANS 123089-GP1 AND 123089-GP2 FOR DETAILS

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<b>LOCATION</b> <b>CITY OF OTTAWA</b> <b>QUEENSWAY CARLETON HOSPITAL</b>	
<b>DRAWING NAME</b> <b>PROPOSED PART 4</b> <b>EXPANSION SEQUENCING</b> <b>PHASE 1d</b> <b>EARLY SERVICING - EAST</b>	<b>PROJECT No.</b> 123089 <b>REV</b> <b>REV #1</b> <b>DRAWING No.</b> 123089-GP-PH1d
<b>40 Michael Cowpland Drive</b> <b>Ontario, Canada K2M 1P6</b>  <b>(613) 254-9643</b> <b>(613) 254-5867</b> <a href="http://www.novatech-eng.com">www.novatech-eng.com</a>	

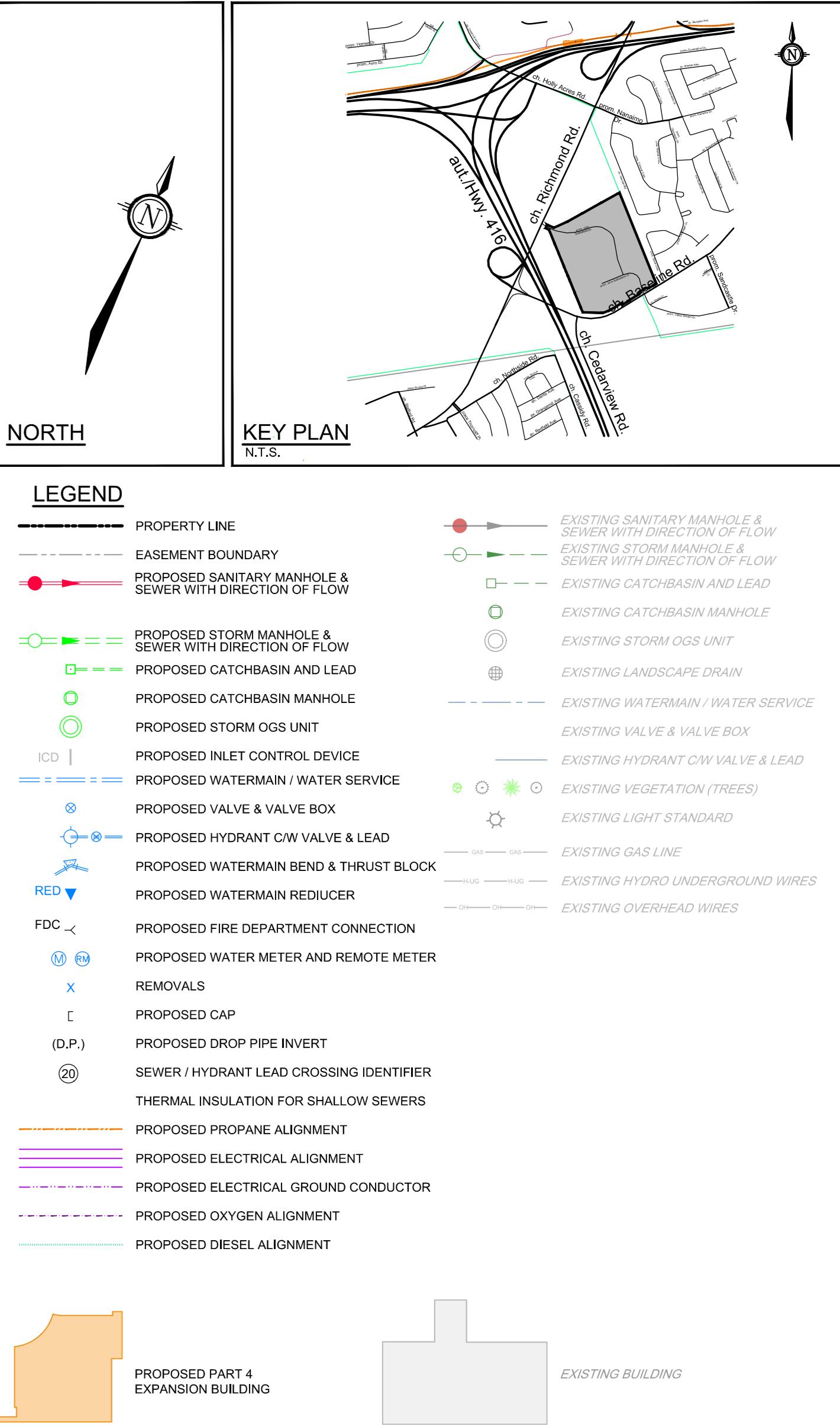
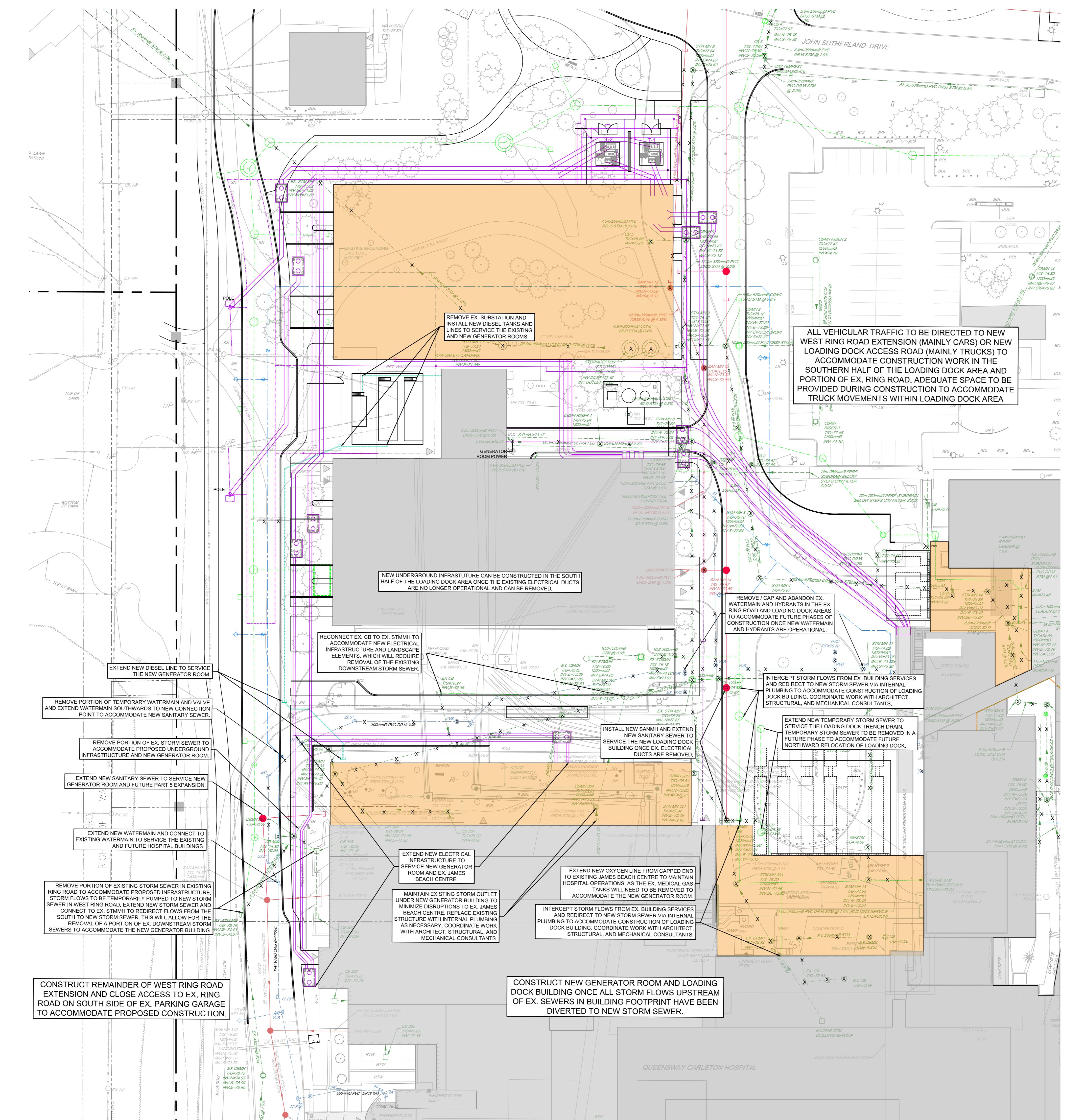


**MAIN OBJECTIVES OF PHASE 1e:**

1. REMOVE A PORTION OF THE EXISTING STORM SEWER BETWEEN THE EXISTING BUNKER AND POWER PLANT TO ACCOMMODATE THE REDIRECTION OF STORM FLOWS FROM THE EXISTING EMERGENCY DEPARTMENT TO THE NEW STORM SEWER VIA FUTURE INTERNAL PLUMBING.
- 2.a. ALL EXISTING STORMWATER FLOWS TRIBUTARY TO THE EXISTING STORM SEWER BELOW THE FOOTPRINT OF THE FUTURE INTERNAL LOADING DOCK WILL NEED TO BE DIVERTED TO THE NEW STORM SEWER SYSTEM IN THIS PHASE.
- 2.b. INTERNAL PLUMBING TO BE USED BELOW THE FOOTPRINT OF THE FUTURE EMERGENCY DEPARTMENT ADDITION TO MAINTAIN STORM OUTLET FOR EXISTING EMERGENCY DEPARTMENT DURING FUTURE CONSTRUCTION PHASES. ALIGNMENT OF INTERNAL PLUMBING TO BE COORDINATED WITH THE ARCHITECT, MECHANICAL, AND STRUCTURAL CONSULTANTS.
3. EXTEND NEW STORM SEWERS ACROSS EXISTING JOHN SUTHERLAND DRIVE AND RING ROAD TO INTERCEPT AND REDIRECT STORM FLOWS FROM THE EXISTING SOUTH PARKING LOT TO THE NEW STORM SEWERS.
4. EXTEND NEW WATERMAIN FOR FUTURE CONNECTION TO EXISTING WATERMAIN (I.E. NOT OPERATIONAL AT END OF PHASE).

STORM FLOWS MAY NEED TO BE TEMPORARILY PUMPED TO ACCOMMODATE THE REMOVAL OF EXISTING INFRASTRUCTURE AND THE CONSTRUCTION OF NEW INFRASTRUCTURE.





## **OBJECTIVES OF PHASE 2a:**

CONSTRUCT REMAINDER OF NEW WEST RING ROAD EXTENSION AND CLOSE ACCESS TO EXISTING RING ROAD ON SOUTH SIDE OF EXISTING PARKING GARAGE.

ACCESS TO NORTHERN PORTION OF LOADING DOCK AREA, INCLUDING NEW INTERIM LOADING DOCKS, TO BE PROVIDED BY REALIGNED LOADING DOCK ACCESS ROAD CONSTRUCTED IN PREVIOUS PHASE.

CONSTRUCTION TO BE LIMITED TO SOUTHERN PORTION OF EXISTING LOADING DOCK AREA AND EXISTING RING ROAD TO MAINTAIN INTERIM LOADING DOCK OPERABILITY.

REMOVE A PORTION OF THE EXISTING STORM SEWERS IN THE EXISTING RING ROAD AND LOADING DOCK AREAS AND EXTEND NEW STORM SEWERS TO DIVERT STORMWATER FLOWS TO THE NEW STORM SEWER SYSTEM.

DIVERT FLOWS FROM AREAS TRIBUTARY TO THE EXISTING STORM SEWER BELOW THE FOOTPRINT OF THE FUTURE GENERATOR ROOM (I.E. EX. RING ROAD, SOUTH PARKING LOT) TO ALLOW REMOVAL OF THESE STORM SEWERS.

DIVERT FLOWS FROM AREAS TRIBUTARY TO THE EXISTING STORM SEWER BELOW THE FOOTPRINT OF THE FUTURE LOADING DOCK (EXISTING POWER PLANT, MAIN HOSPITAL BUILDING) VIA INTERNAL PLUMBING.

1. INTERNAL PLUMBING TO BE USED BELOW THE FOOTPRINT OF THE FUTURE LOADING DOCK TO MAINTAIN STORM OUTLET FOR EXISTING POWER PLANT AND MAIN HOSPITAL BUILDING. ALIGNMENT OF INTERNAL PLUMBING TO BE COORDINATED WITH THE ARCHITECT, MECHANICAL, AND STRUCTURAL CONSULTANTS.

REMOVE A PORTION OF THE TEMPORARY WATERMAIN AND EXTEND SOUTHWARD TO CONNECT TO EXISTING WATERMAIN. RELOCATION OF THE WATERMAIN CONNECTION POINT WILL BE REQUIRED TO ACCOMMODATE THE FUTURE SANITARY SEWER IN THE WEST RING ROAD.

WATER SUPPLY TO EXISTING HOSPITAL MAY BE TEMPORARILY INTERRUPTED DURING RELOCATION OF WATERMAIN CONNECTION POINT, THEREFORE TEMPORARY OVERLAND WATER SUPPLY MAY BE REQUIRED AS AN INTERIM CONDITION.

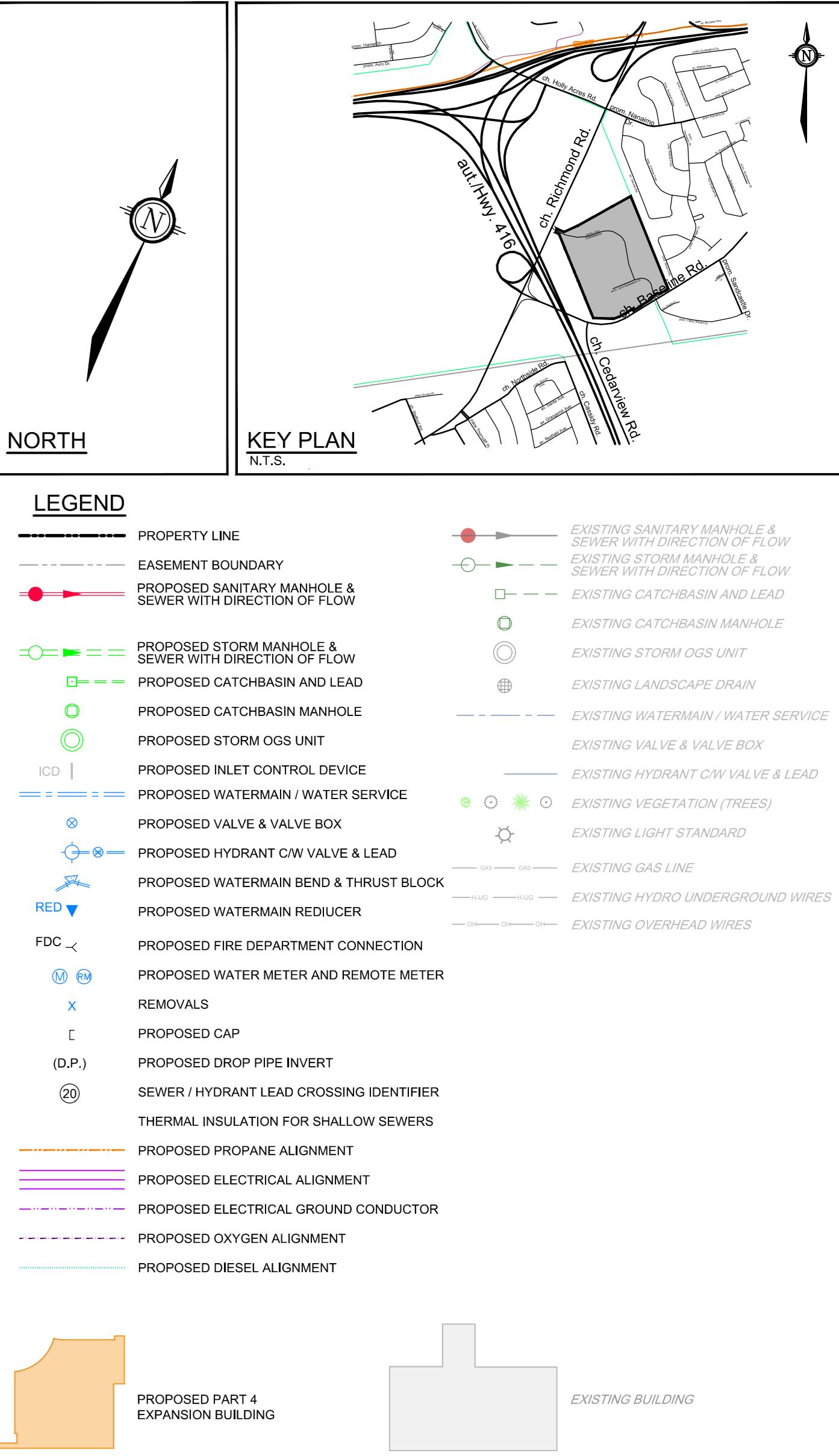
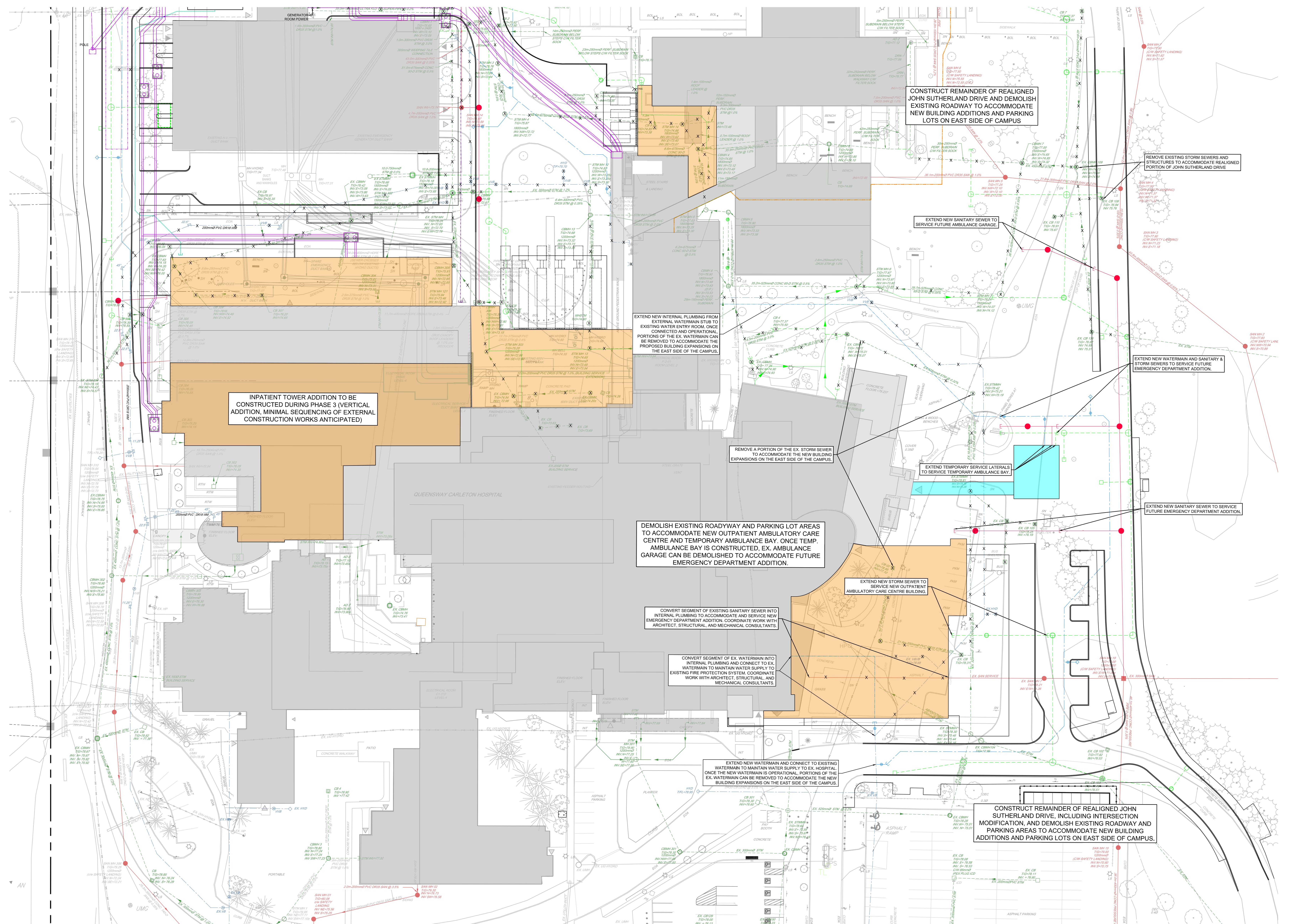
EXTEND NEW SANITARY SEWERS IN THE WEST RING ROAD ONCE THE WATERMAIN CONNECTION POINT HAS BEEN RELOCATED, AS A PORTION OF THE EXISTING WATERMAIN WILL NEED TO BE REMOVED TO ACCOMMODATE THE NEW SANITARY SEWER. CONNECT TO THE EXISTING SANITARY SEWER IN THE EX. RING ROAD TO PROVIDE A SANITARY OUTLET FOR THE GENERATOR ROOM AND FUTURE PART 5 EXPANSION.

EXTEND NEW OXYGEN PIPING IN LOADING DOCK AREA AND CONNECT TO EX. JAMES BEACH CENTRE TO MAINTAIN SERVICE TO THE HOSPITAL, AS THE EXISTING MEDICAL GAS TANKS WILL NEED TO BE REMOVED TO ACCOMMODATE THE FUTURE GENERATOR ROOM.

CONSTRUCTION OF THE NEW GENERATOR AND LOADING DOCK CAN BEGIN ONCE THE NEW OXYGEN LINE IS OPERATIONAL AND THE EXISTING STORM SEWERS WITHIN THE RESPECTIVE BUILDING FOOTPRINTS CAN BE REMOVED (I.E. ALL UPSTREAM FLOWS DIVERTED TO NEW STORM SEWER).

TERM FLOWS MAY NEED TO BE TEMPORARILY PUMPED TO ACCOMMODATE THE REMOVAL OF EXISTING INFRASTRUCTURE AND THE CONSTRUCTION OF NEW INFRASTRUCTURE.

REFER TO PLANS 123089 CR1 AND 123089 CR2 FOR DETAILS



## **IN OBJECTIVES OF PHASE 3 AND 4a:**

**E: PHASE 3 (INPATIENT TOWER ADDITION) IS ANTICIPATED TO REQUIRE MINIMAL  
INTERFERING OF EXTERNAL CONSTRUCTION WORKS.**

CONSTRUCT REMAINDER OF REALIGNED JOHN SUTHERLAND DRIVE AND DEMOLISH EXISTING ROADWAY TO ACCOMMODATE FUTURE BUILDING EXPANSIONS AND PARKING LOTS ON EAST SIDE OF CAMPUS.

REMOVE A PORTION OF THE EXISTING STORM SEWERS IN JOHN SUTHERLAND DRIVE AS PART OF THE ROADWAY DEMOLITION TO ACCOMMODATE FUTURE BUILDING EXPANSIONS.

EXTEND NEW INTERNAL PLUMBING BELOW THE FOOTPRINT OF THE FUTURE EMERGENCY DEPARTMENT ADDITION TO MAINTAIN WATER SUPPLY TO THE EXISTING HOSPITAL DURING REMOVAL OF THE EXISTING WATERMAIN AND CONSTRUCTION OF THE BUILDING. ALIGNMENT OF INTERNAL PLUMBING TO BE COORDINATED WITH THE ARCHITECT, MECHANICAL, AND STRUCTURAL CONSULTANTS.

CONVERT PORTION OF EX. WATERMAIN BELOW THE FOOTPRINT OF THE FUTURE OUTPATIENT AMBULATORY CARE CENTRE INTO INTERNAL PLUMBING TO MAINTAIN WATER SUPPLY TO THE EXISTING HOSPITAL FIRE PROTECTION SYSTEM. SIMILARLY, CONVERT PORTION OF EX. SANITARY SEWER INTO INTERNAL PLUMBING TO MAINTAIN A SANITARY OUTLET DURING REMOVAL OF THE EXISTING WATERMAIN / SANITARY SEWER AND CONSTRUCTION OF THE BUILDING.

ONCE INTERNAL PLUMBING WORKS ARE COMPLETE, THE NEW WATERMAIN CAN BE CONNECTED TO THE EXISTING WATERMAIN IN THE EX. RING ROAD, WHICH WILL ALLOW REMOVAL OF PORTIONS OF THE EX. WATERMAIN TO ACCOMMODATE THE FUTURE BUILDINGS.

CONSTRUCT TEMPORARY AMBULANCE BAY, INCLUDING TEMPORARY SERVICE LATERALS, TO FACILITATE DEMOLITION OF THE EXISTING AMBULANCE GARAGE. ONCE THE EXISTING AMBULANCE GARAGE IS DEMOLISHED, EARLY WORKS FOR THE FUTURE EMERGENCY DEPARTMENT COULD COMMENCE.

CONSTRUCTION OF THE OUTPATIENT AMBULATORY CARE CENTRE CAN BEGIN ONCE THE EXISTING SERVICES WITHIN THE BUILDING FOOTPRINT ARE CONVERTED TO INTERNAL PLUMBING OR REMOVED.

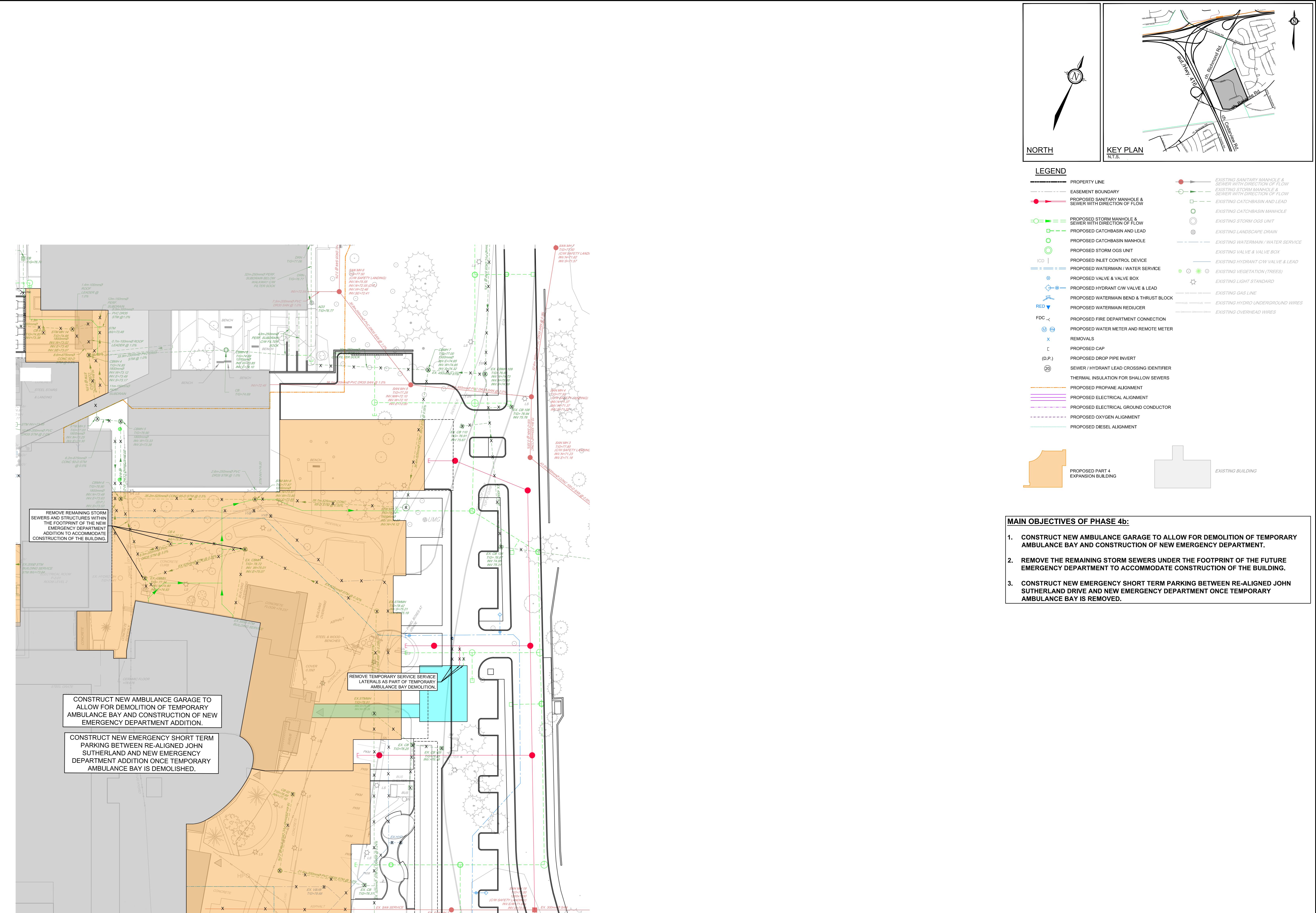
WATER FLOWS MAY NEED TO BE TEMPORARILY PUMPED TO ACCOMMODATE THE REMOVAL OF EXISTING INFRASTRUCTURE AND THE CONSTRUCTION OF NEW INFRASTRUCTURE.

FOR PLANS 123089-GP1 AND 123089-GP2 FOR DETAILS

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 <b>CH</b> Architects 1000 and Drive M 1P6 613-254-9643 613-254-5867 n-eng.com	<b>LOCATION</b> <b>CITY OF OTTAWA</b> <b>QUEENSWAY CARLETON HOSPITAL</b>
	<b>DRAWING NAME</b> <b>GENERAL PLAN OF SERVICES</b> <b>PART 4 EXPANSION</b> <b>PHASE 3 AND 4a</b> <b>AMBULATORY CARE CENTRE</b>



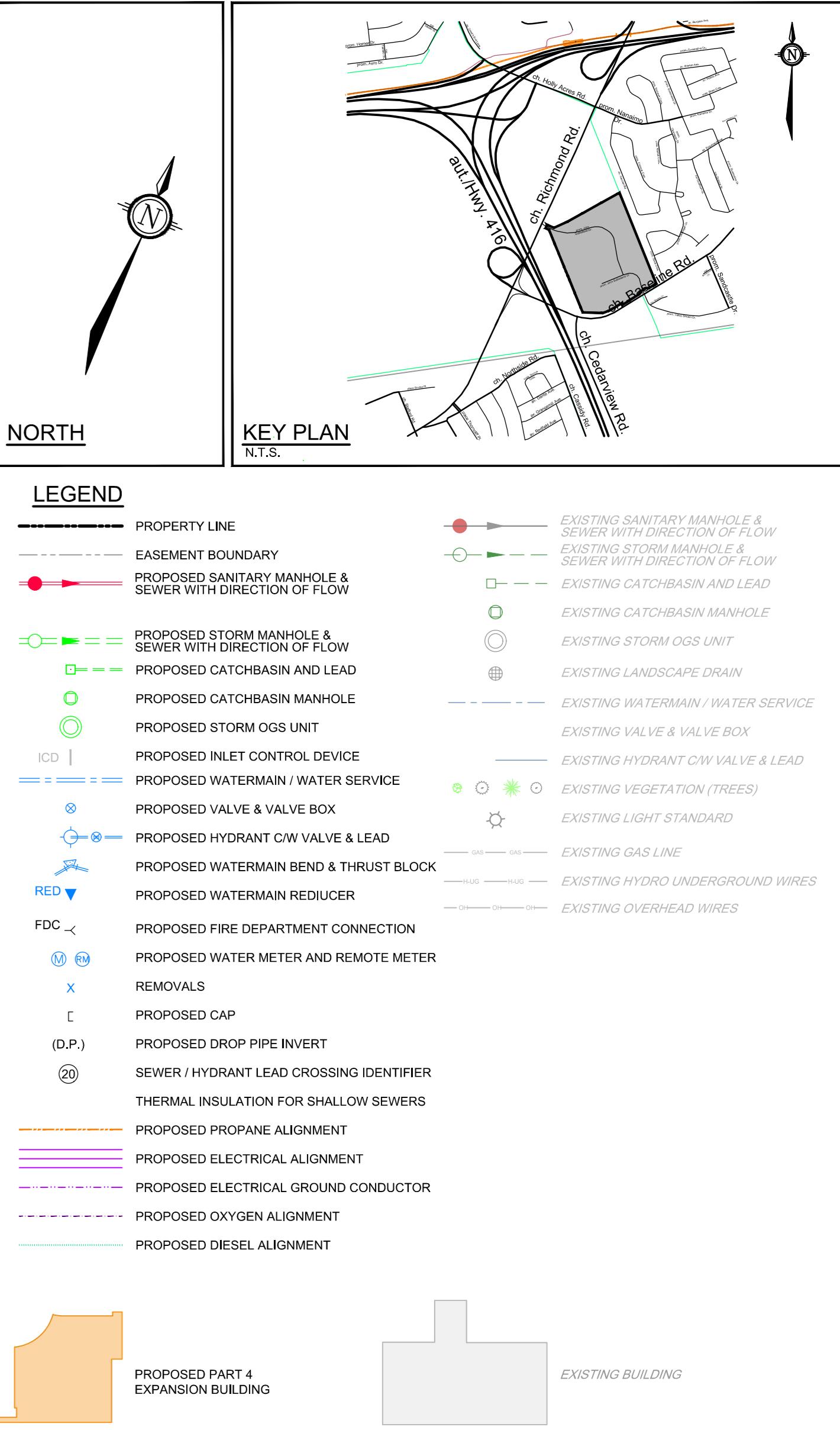
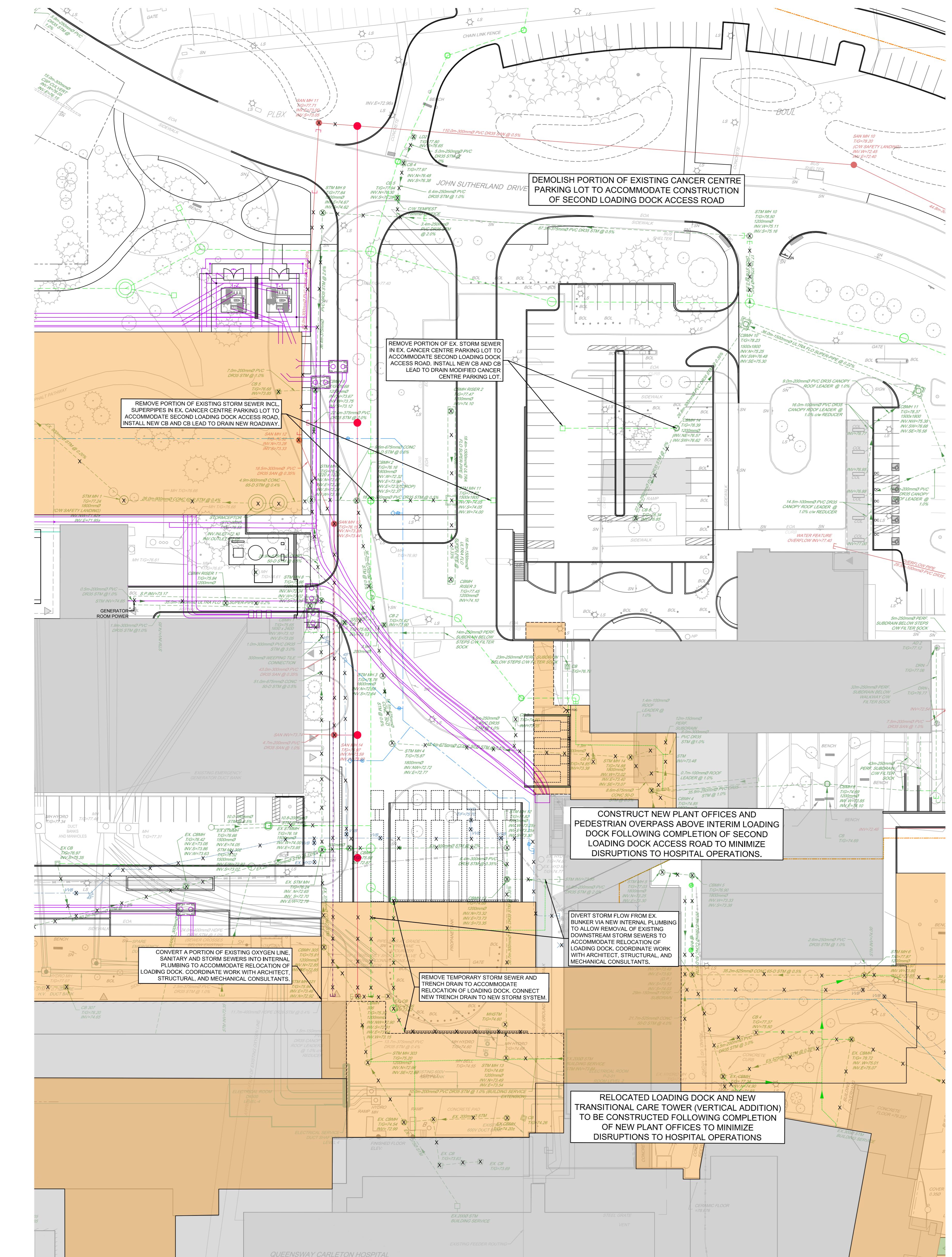
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LOCATION CITY OF OTTAWA QUEENSWAY CARLETON HOSPITAL	PROJECT No. 123089
DRAWING NAME <b>GENERAL PLAN OF SERVICES PART 4 EXPANSION PHASE 4b EMERGENCY DEPARTMENT ADDITION, NEW AMBULANCE GARAGE</b>	REV REV #1
	DRAWING No. 123089-GP-PH4b



## **OBJECTIVES OF PHASE 5a:**

DEMOLISH PORTION OF EXISTING CANCER CENTRE PARKING LOT, INCLUDING THE EXISTING STORM SEWERS AND SUPERPIPES, TO ACCOMMODATE SECOND LOADING DOCK ACCESS ROAD.

INSTALL NEW CATCHBASIN TO PROVIDE DRAINAGE FOR SECOND LOADING DOCK ACCESS ROAD AND CONNECT TO NEW STORM SEWER.

SIMILARLY, INSTALL NEW CATCHBASIN IN EX. CANCER CENTRE PARKING LOT AND CONNECT TO EX. STORM SEWER TO PROVIDE DRAINAGE FOR MODIFIED CANCER CENTRE PARKING LOT.

CONSTRUCT NEW PLANT OFFICES AND PEDESTRIAN OVERPASS ABOVE INTERIM LOADING DOCKS ONCE SECOND LOADING DOCK ACCESS ROAD IS OPERATIONAL TO MINIMIZE DISRUPTIONS TO HOSPITAL OPERATIONS.

CONVERT PORTION OF EX. OXYGEN LINE, STORM SEWER, AND SANITARY SEWER INTO INTERNAL PLUMBING TO ACCOMMODATE LOADING DOCK RELOCATION.

SIMILARLY, DIVERT STORMWATER FLOWS FROM EX. POWER PLANT TO NEW STORM SEWER VIA INTERNAL PLUMBING UNDER THE FOOTPRINT OF THE FUTURE RELOCATED LOADING DOCK. THIS WILL BE REQUIRED TO REMOVE THE EXISTING DOWNSTREAM STORM SEWERS LOCATED UNDER THE FOOTPRINT OF THE DEPRESSED PORTION OF THE FUTURE LOADING DOCK.

a.a. ALIGNMENT OF INTERNAL PLUMBING TO BE COORDINATED WITH THE ARCHITECT, MECHANICAL, AND STRUCTURAL CONSULTANTS.

ONCE THE INTERNAL PLUMBING WORKS ARE COMPLETE, THE LOADING DOCK RELOCATION AND CONSTRUCTION OF THE TRANSITIONAL CARE TOWER CAN BE COMPLETED.

AGE FLOWS MAY NEED TO BE TEMPORARILY PUMPED TO ACCOMMODATE THE REMOVAL  
EXISTING INFRASTRUCTURE AND THE CONSTRUCTION OF NEW INFRASTRUCTURE.

REFER TO PLANS 123080 CR1 AND 123080 CR2 FOR DETAILS

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<b>LOCATION</b> <b>CITY OF OTTAWA</b> <b>QUEENSWAY CARLETON HOSPITAL</b>	
<b>DRAWING NAME</b> <b>GENERAL PLAN OF SERVICES</b> <b>PART 4 EXPANSION</b> <b>PHASE 5a</b> <b>SECOND LOADING DOCK ACCESS ROAD,</b> <b>RELOCATED LOADING DOCK</b>	<b>PROJECT No.</b> 123089
	<b>REV</b> REV #1
	<b>DRAWING No.</b> 123089-GP-PH5a