

February 20, 2015

BY COURIER & RESS

Ms. Kirsten Walli
Board Secretary
Ontario Energy Board
Suite 2700, 2300 Yonge Street
Toronto, Ontario
M4P 1E4

Dear Ms. Walli:

**RE: Union Gas Limited (“Union”)
Sudbury NPS10 Replacement
EB-2015-0042**

Union hereby requests an Order granting leave to construct approximately 700 metres of NPS12 natural gas pipeline pursuant to s. 90(1) of the Ontario Energy Board Act, 1998, S.O. 1998 c. 15 Sch. B (the “Act”). A package of supporting material is attached.

This pipeline is needed to replace two sections of the Sudbury system which must be replaced for integrity and class location issues.

Union further requests an exemption, pursuant to s. 95 of the Act, from any requirement to hold a hearing pursuant to the requirements of s. 90(1) of the Act.

Replacement of the existing pipeline would not require Ontario Energy Board leave to construct approval, if the existing pipe was removed and a new pipeline was constructed in the existing easement. However, as the sections of pipeline to be replaced are being up-sized, the project meets the requirements of s. 90(1) of the Act, requiring leave to construct.

Commencement of construction of the proposed pipeline is scheduled for May 2015.

In Union’s view, there are a number of reasons why this case warrants an exemption including:

1. Unions pipeline integrity program has demonstrated a need for the pipeline replacement;
2. The directly affected private landowners have not identified any issues with the project.
3. The alternative to the proposed project is to complete separate individual investigative digs where the anomalies have been identified.

4. Union has completed an environmental screening for the project. If the proposed mitigation measures are followed, there will be no long term significant environmental impacts as a result of this project;
5. In order to ensure that there is no disruption of services to customers, construction is to be completed by November 2015.

If you require additional information, please contact Mark Murray, Manager, Regulatory Projects, Union Gas Limited at 519-436-4601.

Yours truly,

[original signed by]

Mark Murray
Manager, Regulatory Projects and Lands Acquisition
:sb
Encl.

cc: Pascale Duguay, Manager Facilities Applications
Zora Crnojacki, Project Advisor

SUDBURY NPS10 REPLACEMENT PROJECT

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Project Summary

1. Union Gas Limited ("Union"), pursuant to Section 90.(1) of the Ontario Energy Board Act, requests approval from the Ontario Energy Board ("OEB") for leave to construct approximately 700 metres of NPS12 hydrocarbon (natural gas) pipeline ("Proposed Pipeline"), to replace two sections of the existing Sudbury lateral NPS10 Line located in the City of Greater Sudbury (the "Project"). The location of the Proposed Project is shown on Schedule 1.
2. The NPS10 Sudbury Lateral commences in North Bay and terminates in Espanola. The Sudbury Lateral was predominantly constructed in 1958. Union is proposing to replace and upsize two short sections of the Sudbury lateral to address class location changes, integrity issues and some future growth requirements.
3. Union completes property and population reviews of its pipelines for class location compliance. This review has identified several locations along the identified existing stretches of the Sudbury lateral that need to be replaced to meet the current requirements. This line is also inspected periodically as part of Union's Integrity Management Program. Results of scheduled inspections and associated investigative digs over the past 12 years have identified multiple integrity issues that could pose safety and security of supply concerns if not addressed. From these two perspectives, the replacement of the proposed sections of the Sudbury Lateral is the most effective way of managing its ongoing safety and reliability.
4. As part of the replacement, Union is proposing to increase the size of this portion of the Sudbury Lateral from the current NPS 10 diameter pipeline to an NPS 12 diameter pipeline. The increase in pipeline size will provide some additional capacity for future growth on the

1 Sudbury system. Union anticipates this incremental capacity will help to serve future
2 demands for Industrial/Commercial/Residential customers in the Sudbury area.

3 5. The cost of the Project is approximately \$2 M.

4 6. Union has discussed the Project with the directly affected landowners along the route of the
5 pipeline and no issues have been identified.

6 7. Union has completed an Environmental Screening for the Project. The Screening did not
7 identify any long term significant environmental impacts as a result of the Project.

8 8. Union is proposing to replace this pipeline during the 2015 summer construction season. In
9 order to accommodate this, Union respectfully requests Ontario Energy Board approval by
10 May 2015.

11 **Description of Existing Sudbury System**

12 9. Sudbury currently receives gas from two pipelines ("Sudbury Lateral System") that both
13 originate from the TCPL pipeline system in the North Bay area. The Sudbury Lateral
14 System extends for a total distance of approximately 211 kilometers from North Bay to
15 Espanola and services the entire Sudbury District along with numerous communities along
16 the route.

17
18 10. The Sudbury Lateral System consists of a NPS10 line which interconnects with TCPL in the
19 City of North Bay and an NPS12 line which extends from TCPL in the Marten River area,
20 north of the City of North Bay.

11. The original NPS 10 line was installed in 1958 with the intent to provide natural gas service to Sudbury as well as other communities located between North Bay and Sudbury.

12. As a result of continued growth in the area, between 1972 and 1987, the NPS 10 line was looped in phases with an NPS 12 pipeline which extends from a TCPL interconnect at Marten River to the northwest end of Sudbury.

13. The design day for the Sudbury Lateral System is a 52 degree day. A 52 degree day is Union's standard design day calculation and in this case corresponds to an effective daily average outdoor temperature of minus 34 degrees Celsius. This is the Union Gas standard for the Sudbury temperature zone.

14. A schematic of the Sudbury System can be found at Schedule 2.

Background

Integrity

15. Since 2002, Union has had an extensive pipeline maintenance and integrity management program in place that includes the regular monitoring of pipelines for corrosion, leaks or other potential damage to ensure its pipelines remain in safe operating condition.

16. As part of this program, Union regularly conducts inline assessments of its pipelines using inline inspection tools to determine the condition of the pipelines. Based on the results of

1 these assessments, Union takes appropriate mitigation action to address any integrity issues
2 that are found.

3 17. The Pipeline was initially inspected using inline inspection tools in 2002, and subsequent
4 inspections were completed in 2006 and 2014. Investigative digs were also completed on the
5 Pipeline subsequent to the inline inspections, and anomalies were removed from the Pipeline.
6 The inspections completed in the past identified metal loss at a number of locations that need
7 to be further investigated to address the potential defects.

8
9 18. Based on Union's experience with this pipeline and given its overall condition and proximity
10 to built-up areas, replacement of the these sections of the pipeline was deemed the most
11 effective action to manage and ensure the long term integrity of the pipeline.

12 19. If the Project is delayed, integrity concerns will become more serious as the risk of a potential
13 failure increases.

14 ***Class Location***
15

16 20. At the time of the original construction of the NPS 10 Sudbury Line in 1958, the population,
17 land use density and the number of dwellings were such that the pipeline was designed for a
18 Class 1 location. Since this initial construction, land use and population density along sections
19 of the NPS 10 Sudbury Line have changed, resulting in change to class locations and the
20 original design of the pipe has to be upgraded.

21 21. The pipe design depends on which Class Location it is located within. To determine Class
22 Location, CSA Z662-11 uses a classification system that takes into account land use and
23 population density. The classifications are as follows:

- a. Class 1 areas consist of 10 or fewer dwellings;
 - b. Class 2 areas consist of 11 to 45 dwellings, or a building occupied by 20 or more persons during normal use such as playgrounds, recreational areas, or other places of public assembly as well as industrial installations;
 - c. Class 3 areas consist of 46 or more dwellings.
 - d. Class 4 contains a prevalence of buildings intended for human occupancy with 4 or more stories above ground.
22. The Class Location boundaries are determined by a sliding boundary 1.6 km long by 400 meter wide centered over the pipeline. This method covers existing development. This is supplemented with information for future development through discussions with landowners, and municipalities. The pipeline may be designed to accommodate a higher Class Location to be compatible with future development.
23. Since this initial construction, land use and population density have changed such that the Proposed Pipeline will be constructed in compliance with the requirements of CSA Z662-11 Standard in accordance with the Code Adoption Document under Ontario Regulation 2010/01. The Proposed Pipeline will be designed to meet Class 3 requirements.
24. Based on Union's experience with this pipeline and given its overall condition and proximity to built-up areas, the proposed Project was deemed the most effective action to manage and ensure the long term integrity of the pipeline and class location design compliance.

Proposed Facilities

25. Union is proposing to replace two sections of the NPS 10 Sudbury Line:

- Section one is 250 meters long and located near the Falconbridge Road and Maley Drive in the City of Sudbury, (“Section One”) and
- Section two is 450 meters long and located between LaSalle Road and Frood Road in the City of Sudbury, (“Section Two”).

26. A map showing the Proposed Pipeline can be found at Schedule 1.

Alternatives

27. To address the integrity issues and class location issues with the Sudbury Line, Union considered two additional options:

- (a) Size for size replacement of the Sudbury Line; and
- (b) Replacement of individual sections of the pipeline identified as not meeting integrity or complying with class location requirements.

28. Option (a) was not selected as it would not serve the forecasted growth in the City of Greater Sudbury. Option (b) was eliminated as a result of inefficiencies related to the individual replacements required to meet all integrity and class location requirements.

29. Based upon this analysis, Union decided the proposed Project is the preferred method to address these concerns.

Project Costs and Economics

30. The estimated Project costs for the project are approximately \$2 M. A detailed breakdown of these costs can be found at Schedule 3.

31. A Discounted Cash Flow report has not been completed for this Project as the Project is underpinned by the integrity and class location requirements and there are no new contracts associated with this Project.

Design and Construction

32. The existing pipeline will be removed and the Proposed Pipeline installed in the existing easement.

33. The design and pipe specifications are outlined in Schedule 4. All the design specifications are in accordance with the *Ontario Regulations 210/01* under the *Technical Standards and Safety Act 2000, Oil and Gas Pipeline Systems*. This is the regulation governing the installation of pipelines in the Province of Ontario.

34. The current class location for the Proposed Pipeline includes Class 1, 2 and 3. In consideration for future potential development along the route, the entire length of the Proposed Pipeline will be designed for Class 3 location requirements.

35. The Proposed Pipeline has an outside diameter of 323.9 mm and a minimum wall thickness of 5.6 mm. The pipe is to be manufactured by the electric resistance weld process and will have minimum specified minimum yield strength of 359 MPa. This pipe will be manufactured to the CSA Z245.1-07 Steel Line Pipe Standard for Pipeline Systems and Materials. This pipeline will have a design maximum operating pressure of 3723 kPa.

36. The Proposed Pipeline will be hydrostatically tested in accordance with the Ontario Regulation requirements.

37. The minimum depth of cover will be in accordance with Clause 4.11 of the CSA Code Z662-11. Additional depth greater than the planned depth of 0.8 meters will be provided to accommodate existing or planned facilities.

38. Material is readily available for this Project.

39. Schedule 5 indicates the proposed construction schedule which is scheduled to commence in May 2015 and be completed by the end of August 2015.

40. Abandonment of portions of the existing pipeline will be completed in compliance with TSSA guidelines. The TSSA abandonment guidelines can be found at Schedule 6.

41. Schedule 7 describes the general techniques and methods of construction that will be employed in the construction of the Proposed Pipeline. This schedule details the following activities; locating, clearing and grading, removal of existing pipe, stringing of new pipe, trenching, welding, burying, tie-ins, cleaning and testing and restoration. Union's construction procedures have been continually updated and refined in order to mitigate potential environmental effects related to pipeline construction and be responsive to landowner concerns.

Landowners

42. To construct the Proposed Pipeline, Union plans to utilize its existing easements. No new permanent land rights are required.

43. Section One will be constructed on lands owned by a private landowner using Union's existing rights, of the City of Greater Sudbury and cross under the Canadian National Railway ("CN").

1 44. Union will require temporary land use from a private landowner who did not identify any
2 issues with the Project and has provided a letter of non-objection which can be found at
3 Schedule 8 and the City of Greater Sudbury. Union will follow its standard practice for the
4 CN crossing and has applied for permission to complete the crossing. Union has discussed the
5 Project with the City of Greater Sudbury and they have not identified any issues with the
6 Project.

7 45. Section Two impacts lands controlled by the City of Greater Sudbury. This includes both the
8 road allowance form LaSalle Road and other lands owned by the City of Greater Sudbury.
9 No issues have been identified.

10 46. All construction within existing roads will be completed following Union's Franchise
11 Agreement with the City of Greater of Sudbury.

12 47. Union will require crossing permits or agreements with the City of Greater Sudbury,
13 Conservation Sudbury, CN, and Hydro One.

14 48. No landowner issues have been identified.

15 49. Schedule 9 are maps that shows the running line of the Proposed Pipeline and the land rights
16 required for the pipeline.

17 50. Schedule 10 lists the temporary land use rights required to construct the Proposed Pipeline.

18 51. Union will require temporary land rights to complete construction of the Proposed Pipeline.

19 52. Temporary land use agreements are usually required for a period of two years. This allows
20 Union the opportunity to return in the year following construction to perform further clean-up
21 and remediation work as may be required.

53. At the conclusion of construction, Union will seek a full and final release from each of the directly affected landowner. This full and final release will include compensation for any damages caused or attributed to the pipeline construction.

54. Union has assigned a Lands Agent to address any landowner issues with this Project during construction.

55. After construction, negotiations with landowners will continue, where necessary, to settle any damages that were not foreseen or compensated for, prior to construction.

Environmental

56. As the majority of the pipeline will be removed and a new pipeline installed in the same location, the full route selection was not completed.

57. Union completed an Environmental Screening for the Project. A copy of the Environmental Screening can be found at Schedule 11.

58. Union will implement a program dealing with environmental inspection. This program will ensure that the recommendations in the Screening are followed.

59. An inspector trained in environmental issues will monitor construction activities and ensure that all activities comply with the mitigation measures found in the Screening.

60. Union has discussed the project with the Conservation Sudbury and the Ministry of Natural Resources and will continue to work with them throughout the project to secure any necessary permits. Union expects to obtain the necessary permits and authorizations prior to construction.

61. With respect to watercourses, Union will adhere to the agreement with the Department of Fisheries and Oceans – Ontario great Lakes Area (DFO- OGLA/UGL AGREEMENT 2088). Under the agreement Union conducts watercourse crossings using a specific set of conditions and mitigation measures without DFO review. There is one watercourse associated with the Project that will be crossed using the directional drill or dam and pump method. The necessary permits will be obtained from Conservation Sudbury.

First Nation and Métis Nation

62. Union has a long standing practice of consulting with Métis and First Nations, and has programs in place whereby Union works with them to ensure they are aware of Union's projects and have the opportunity to participate in both the planning and construction phases of the project.

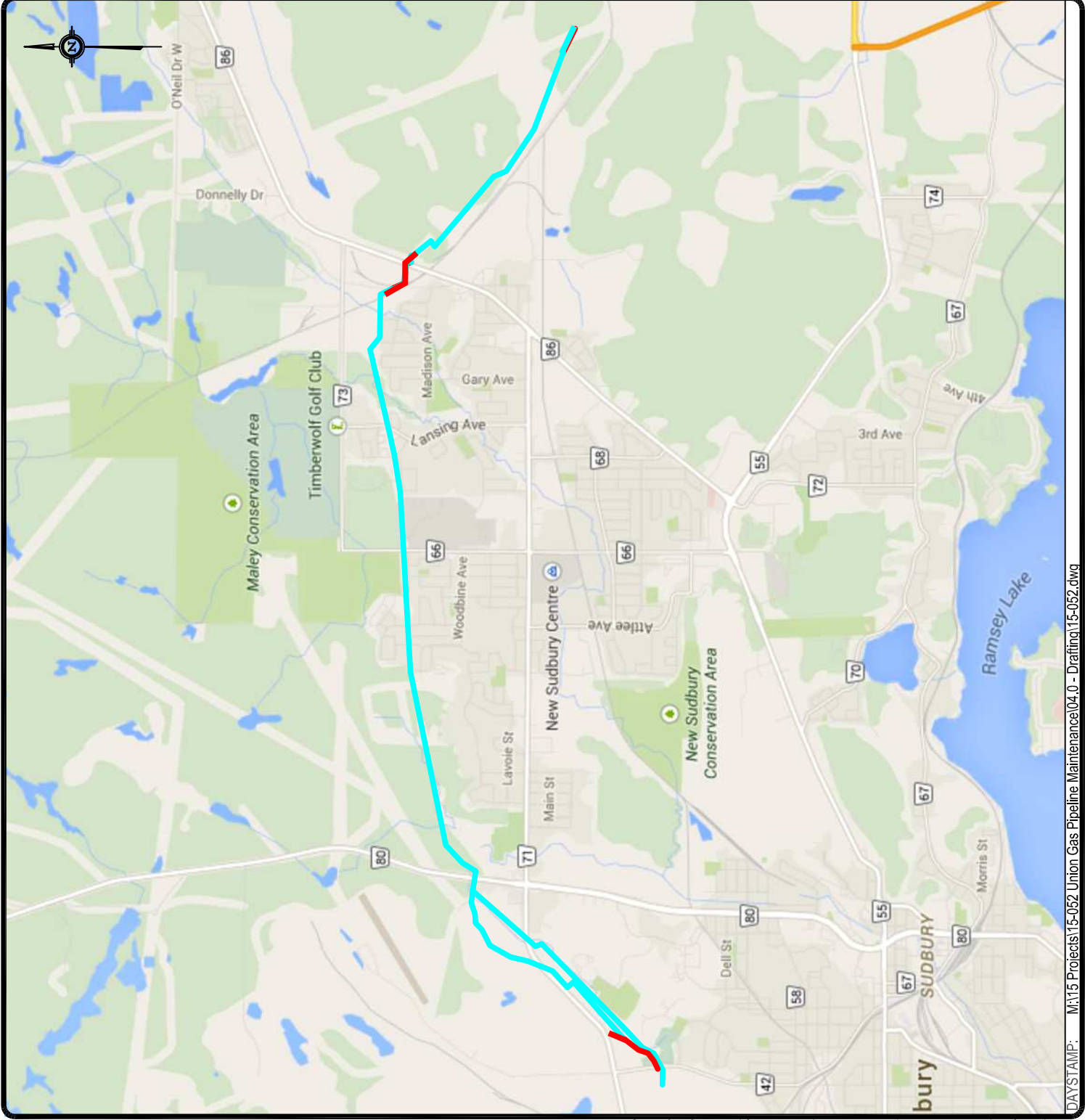
63. Union has an extensive data base and knowledge of First Nations and Métis organizations in Ontario and consults with the Tribal organizations and the data bases of the Ministry of Natural Resources, Ministry of Aboriginal Affairs and Aboriginal Affairs and Northern Development Canada to ensure consultation is carried out with the most appropriate groups.

64. Union has signed a General Relationship Agreement with the Métis Nation of Ontario which describes Union's commitments to the Métis when planning and constructing pipeline projects.

65. The following First Nations and Métis were notified by letter regarding the Project.

Chief Ted Roque	Wahnapitah First Nation
Chief Steve Miller	Whitefish First Nation
Councillor Juliette Denis	Region 5 Métis Nation of Ontario
Steve Sarrazin	LRC Coordinator Sudbury Métis Nation of Ontario

- 1
- 2 66. Union will continue to meet and consult with the First Nations and the Métis organizations
- 3 noted above.
- 4 67. During construction, Union has inspectors in the field who are available to First Nation's and
- 5 Métis organization as a primary contact to discuss and review any issues that may arise during
- 6 construction.
- 7 68. When Union completes the necessary archaeological assessments for the project Union will
- 8 consult with and provide the result of the surveys to any First Nations or Métis upon their
- 9 request.



LEGEND:

- Pipeline Replacement Location
- Existing Pipeline Location

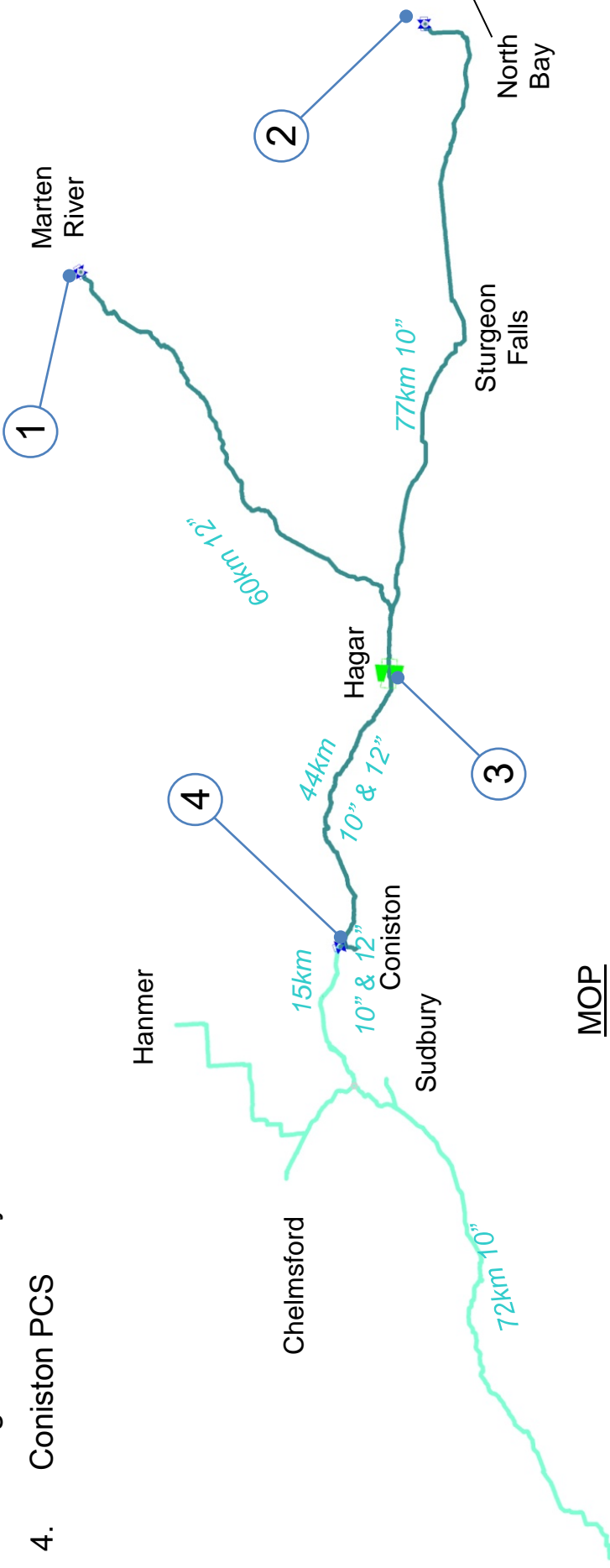
750m 0 1500m

HORIZONTAL SCALE 1:50,000

Study Area Location	EB-2015-0042 Schedule 1		Figure No.
	NPS 10 Replacement Project		1
DATE ISSUED: February 2015		PROJECT NO.: 15-052	
CREATED BY: JLM		REFERENCE: Google Maps	

Sudbury System Overview

1. Marten River Control Valves
2. North Bay Control Valves
3. Hagar LNG Facility
4. Coniston PCS



MOP

- 6895 kPa upstream of Coniston
- 3725 kPa downstream of Coniston

Espanola

TOTAL ESTIMATED PIPELINE CAPITAL COSTS
SUDBURY NPS 10 REPLACEMENT PROJECT

Pipeline and Equipment

NPS 12 Steel Pipe, Coated 700.0 metres \$ 83,250

Valves, Fittings and Miscellaneous Material \$ 55,000

Total Pipeline and Equipment \$ 138,250

Construction and Labour

Lay 700.0 metres of NPS 12 Steel Pipe \$ 1,221,727
Miscellaneous Contract Labour

Company Labour, Inspection, X-Ray, Construction Survey,
Legal, Environmental, Archeology, and Permitting \$ 319,640

Easements, Lands, Damages & Regulatory \$ 130,400

Total Construction and Labour \$ 1,671,767

Subtotal Estimated Pipeline Capital Costs - 2015 Construction \$ 1,810,017

Contingencies 10% \$ 181,002

Interest During Construction 1.5% \$ 32,500

Total Estimated Pipeline Capital Costs - 2015 Construction \$ 2,023,519

Sudbury Integrity

DESIGN AND PIPE SPECIFICATIONS

Design Specifications: NPS 12

Class Location (existing)	-	Class 1, 2 and Class 3
Design Class Location	-	Class 3
Design Factor	-	0.8
Location Factor (General)	-	0.700
Location Factor (Roads/Railways)	-	0.625
Location Factor (Stations)	-	0.625
Maximum Design Pressure	-	3723 kPa
Maximum Operating Pressure	-	3723 kPa (current)
Test Medium	-	Water
Test Pressure	-	5212 kPa
Valves/Fittings	-	PN 100
Minimum Depth of Cover	-	1.2 m

Pipe Specifications:

Size	-	NPS 12
Outside Diameter	-	323.9 mm
Wall Thickness	-	5.6 mm
Grade	-	359 MPa
Type	-	Electric Resistance Weld
Description	-	C.S.A. Standard Z245.1-07
Category	-	Cat. I, M5C
Coating	-	Yellow Jacket, Dual Layer FBE
% SMYS	-	30%

[illegible]



PIPELINE ABANDONMENT CHECKLIST

PLANNING

1. Has subsidence been considered for pipelines having a diameter greater than 323.9 mm (12 inches)?
2. Has the pipeline company notified the landowners and proper authorities (municipalities, MOE, MTO, MNR, etc.) of the abandonment?
3. Have abandonment procedures for crossings been agreed upon by utilities (road, railway, pipelines, etc.) and authorities responsible for rivers and streams crossed by the pipeline?
4. Has consideration been given to the effect of drainage in the area surrounding the abandoned pipeline, which may act as a conduit for ground water after the pipe is perforated by corrosion?
5. Has consideration been given to the removal of all the aboveground facilities?
6. Has consideration been given to any hazards posed to people, equipment, wildlife or livestock by any apparatus left in place above or underground?

IMPLEMENTATION

1. Has the abandoned pipeline been physically isolated from the live pipeline?
2. Has the pipeline been drained of all fluids and adequately cleaned to prevent ground water contamination from hydrocarbon residue on the pipe wall after the pipe is perforated by corrosion?
3. Have all aboveground facilities been removed and has consideration been given to removing underground facilities such as anode beds and tanks?

LIABILITY/RISK MANAGEMENT

1. Does the pipeline company have a contingency plan to remedy any contamination caused by the abandoned pipeline?
2. Has consideration been given to conducting post-abandonment surveillance programs?
3. Has consideration been given to maintaining signage after the pipeline is abandoned?
4. Has consideration been given to providing a locate service after the pipeline is abandoned?

GENERAL TECHNIQUES AND METHODS OF CONSTRUCTION

1. Union Gas Limited (“Union”) will provide its own inspection staff to enforce Union’s construction specifications and *Ontario Regulation 210/01 under the Technical Standards and Safety Act 2000, Oil and Gas Pipeline Systems*.
2. Pipeline construction is divided into several crews that create a mobile assembly line. Each crew performs a different function, with a finished product left behind when the last crew has completed its work.
3. Union’s contract specifications require the contractor to erect safety barricades, fences, signs or flashers, or to use flag persons as may be appropriate, around any excavation across or along a road.
4. It is Union’s policy to restore the areas affected by the construction of the pipeline to “as close to original condition” as possible. As a guide to show the “original condition” of the area, photos and/or a video will be taken before any work commences. When the clean-up is completed, the approval of the landowner or appropriate government authority is obtained.
5. Construction of the pipeline includes the following activities:

Locating Running Line

6. Union establishes the location where the pipeline is to be installed (“the running line”). For pipelines within road allowances, the adjacent property lines are identified and the running line is set at a specified distance from the property line. For pipelines located on private easement, the easement is surveyed and the running line is set at the specified distance from the edge of the easement. The distance from the start of the pipeline (or other suitable point) is marked on the pipeline stakes and the drawings.

Clearing and Grading

7. The right-of-way is prepared for the construction of the pipeline. When required, bushes, trees and crops are removed and the ground leveled. When required, the topsoil is stripped and stored, and/or sod is lifted.

Removing Existing Pipeline

8. The existing trench is excavated exposing the existing pipeline. The spoil material is placed onto the easement, separate from the topsoil. The majority of the existing NPS 10 pipeline will be removed from the trench, cut into sections and trucked off site. The trench is then backfilled.

Abandoning Existing Pipeline

9. The existing pipe within road allowance and in environmentally sensitive areas can be abandoned in place. The abandoned sections are capped and filled with grout, a low density concrete.

Stringing

10. The joints of pipe are laid end-to-end on supports that keep the pipe off the ground to prevent damage to the pipe coating.

Welding

11. The pipe is welded/fused into manageable lengths. The welds in steel pipe are radiographically inspected and the welds are coated.

Burving

12. Pipe may be buried using either the trench method or the trenchless method. All utilities that will be crossed or paralleled by the pipeline are located by the appropriate utility prior to installing the pipeline. Prior to trenching, all such utilities will be hand-located or hydro vacuumed.

Trench Method: Trenching is done by using a trenching machine or hoe excavator depending upon the ground conditions. Provisions are made to allow residents access to their property, as required. All drainage tiles that are cut during the trench excavation are flagged to signify that a repair is required. All tiles are measured and recorded as to size, depth, type and quality. This information is kept on file with Union. If a repair is necessary in the future, Union will have an accurate method of locating the tile. Next, the pipe is lowered into the trench. For steel pipe, the pipe coating is tested using a high voltage electrical tester as the pipe is lowered into the trench. All defects in the coating are repaired before the pipe is lowered in. Next, if the soil that was excavated from the trench is suitable for backfill, it is backfilled. If the soil is not suitable for

backfill the trench is backfilled with suitable material such as sand. After the trench is backfilled, drainage tile is repaired.

Rock Excavation: Rock in solid beds or masses will be removed by “Hoe Ram”, where practical. Where rock that is too hard to “Hoe Ram” is encountered, blasting will be permitted in accordance to Union’s construction procedures and the *Canadian Explosives Act*. The contractor shall obtain all necessary permits and shall comply with all legal requirements in connection with the use, storage and transportation of explosives.

Trenchless Method: Trenchless methods are alternate methods used to install pipelines under railways, roads, sidewalks, trees and environmentally sensitive areas. The trenchless method proposed for the NPS 12 pipeline is directional drilling. This method involves setting up a receiving hole and an exit hole, drilling a pilot hole on the design path, reaming the pilot hole larger by passing a cutting tool and pulling the pipe back through the bored hole.

Tie-Ins

13. The sections of pipelines that have been buried using either the trench or trenchless method are joined together (tied-in).

Cleaning and Testing

14. To complete the construction, the pipeline is cleaned, tested in accordance with Union’s specifications using water.

Restoration

15. The final activity is the restoration. The work area is leveled, the sod is replaced in lawn areas and other grassed areas are re-seeded. Where required, concrete, asphalt and gravel are replaced to return the areas to as close to the original conditions as possible.

From: Rade Brujic
Sent: February-12-15 1:00 PM
To: Rodger, Chantelle
Subject: Re: UGL, Temp. Land Use & Access

I am in support of your project and agree to provide all land rights required to construct your pipe line .
Rade

Sent from my iPhone

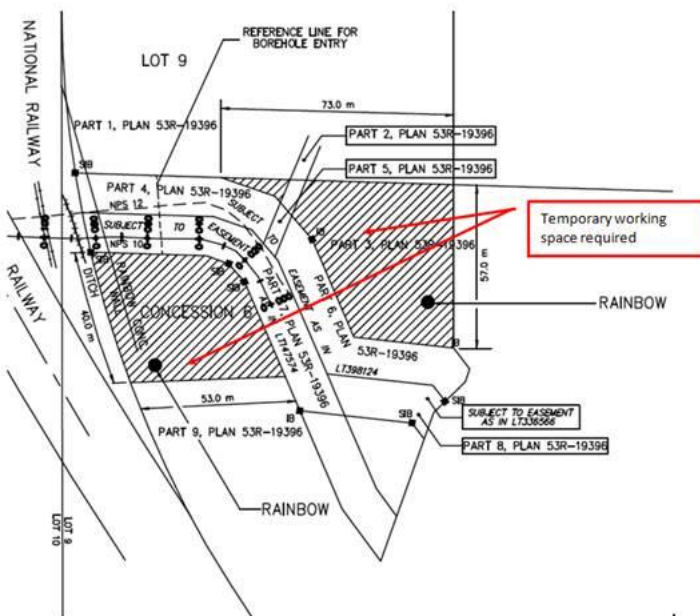
On 2015-02-11, at 11:21 AM, "Rodger, Chantelle" <CRRodger@uniongas.com> wrote:

Hello Rade,

Thank you for your email yesterday. Further to the meeting yourself, Johanna Sanchez and I had, we will be submitting an Application to the OEB in regards to this project. As part of our Application, it would be a benefit to have an email from you stating that you are "in support of the project and agree to provide all land rights required to construct and maintain the pipeline".

For your reference, below is a drawing setting out the temporary working space required, the pipeline within our easements and the borehole entry point.

Are you opposed to providing me with an email as above mentioned prior to your return to the office?



Regards,

Chantelle Rodger

Associate Land Agent

Union Gas Limited | A Spectra Energy Company

36 Charles Street East | P.O. Box 3040 | North Bay, ON P1B 8K7

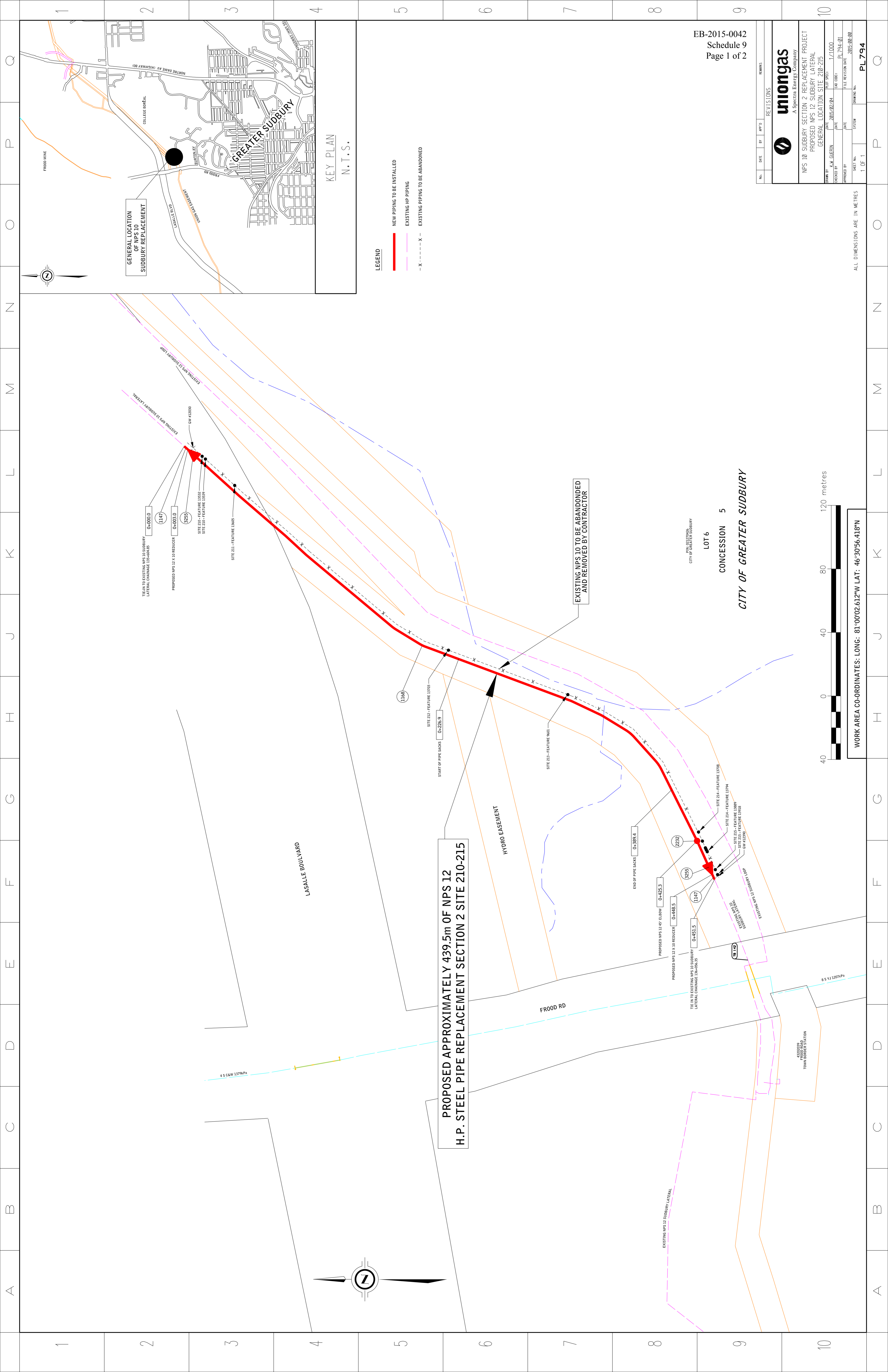
Tel: 1-705-474-8483 Ext. 5176048 | 1-888-401-6791 Ext. 5176048

Fax: 1-705-474-4717

Cell: 1-705-491-5348

Email: crrodger@uniongas.com | www.uniongas.com

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GENERAL LOCATION
OF NPS 10
SUBURBY REPLACEMENT

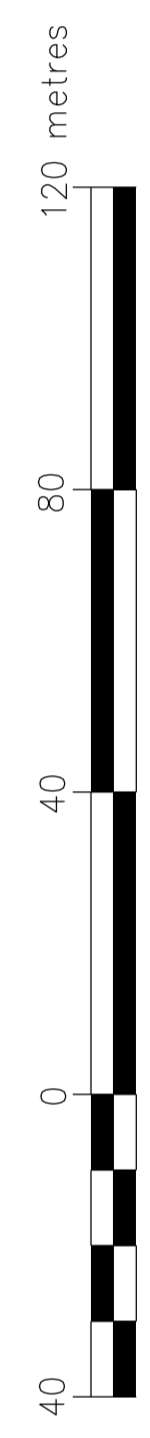
KEY PLAN
N.T.S.

- LEGEND
- NEW PIPING TO BE INSTALLED
 - EXISTING HP PIPING
 - EXISTING PIPING TO BE ABANDONED

PROPOSED APPROXIMATELY 439.5m OF NPS 12
H.P. STEEL PIPE REPLACEMENT SECTION 2 SITE 210-215

EXISTING NPS 10 TO BE ABANDONED
AND REMOVED BY CONTRACTOR

CITY OF GREATER SUBBURY
CONCESSION 5
LOT 6



WORK AREA CO-ORDINATES: LONG: 81°00'02.612"W LAT: 46°30'56.418"N

EB-2015-0042
Schedule 9
Page 1 of 2

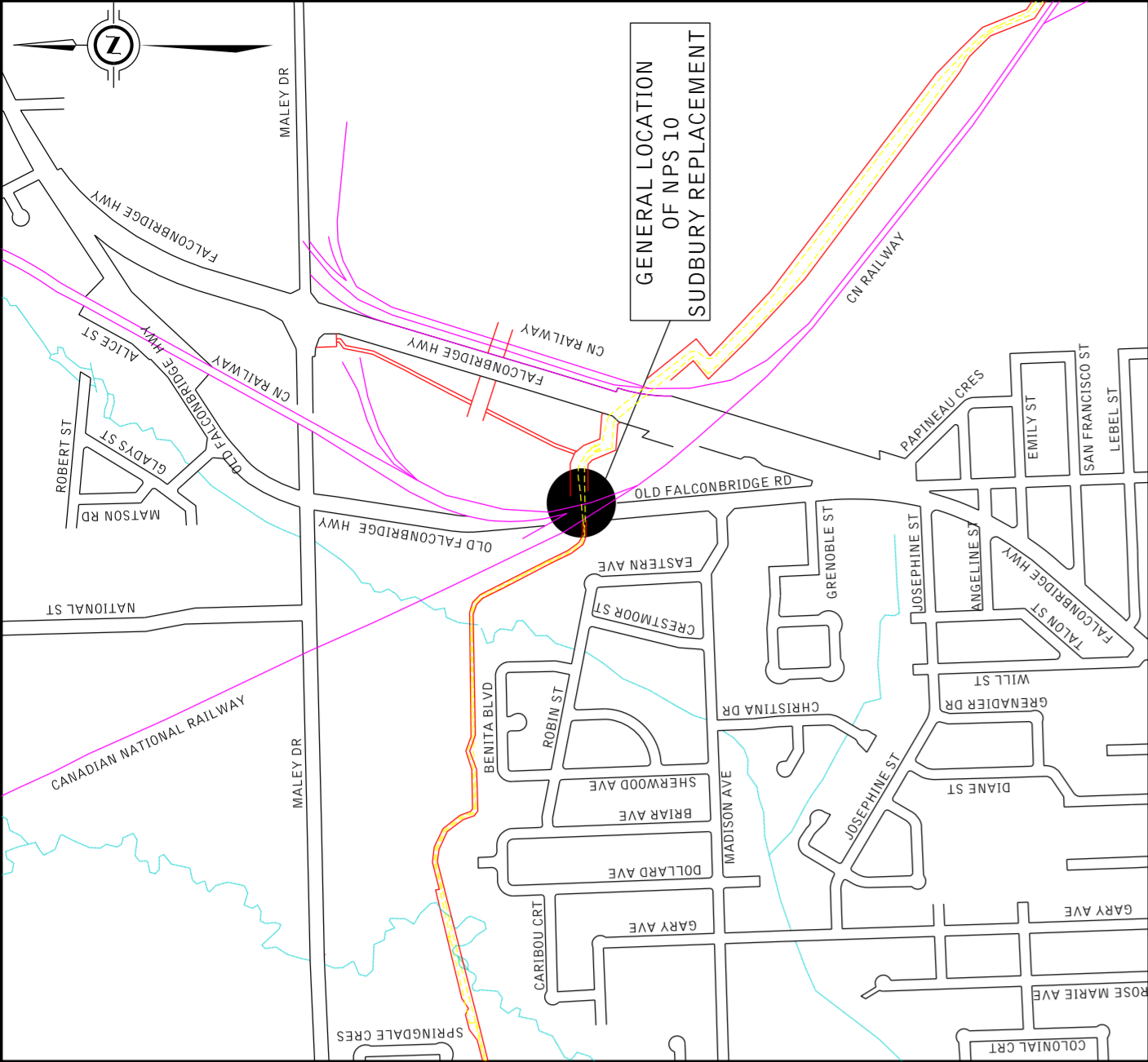
REVISONS				REMARKS
No.	DATE	BY	APP'D	
<div> uniongas A Spectra Energy Company</div>				
NPS 10 SUBBURY SECTION 2 REPLACEMENT PROJECT PROPOSED NPS 12 SUBBURY LATERAL GENERAL LOCATION SITE 210-215				
DRAWN BY	K.A. CHERIN	PROJECT	1/1000	
CHECKED BY		CAD CORR.	PL 734-01	
APPROVED BY		DATE	FILE REVISION DATE	2015-08-08
SHEET No.	1 OF 1	SYSTEM	DRAWING No.	PL 794

ALL DIMENSIONS ARE IN METRES

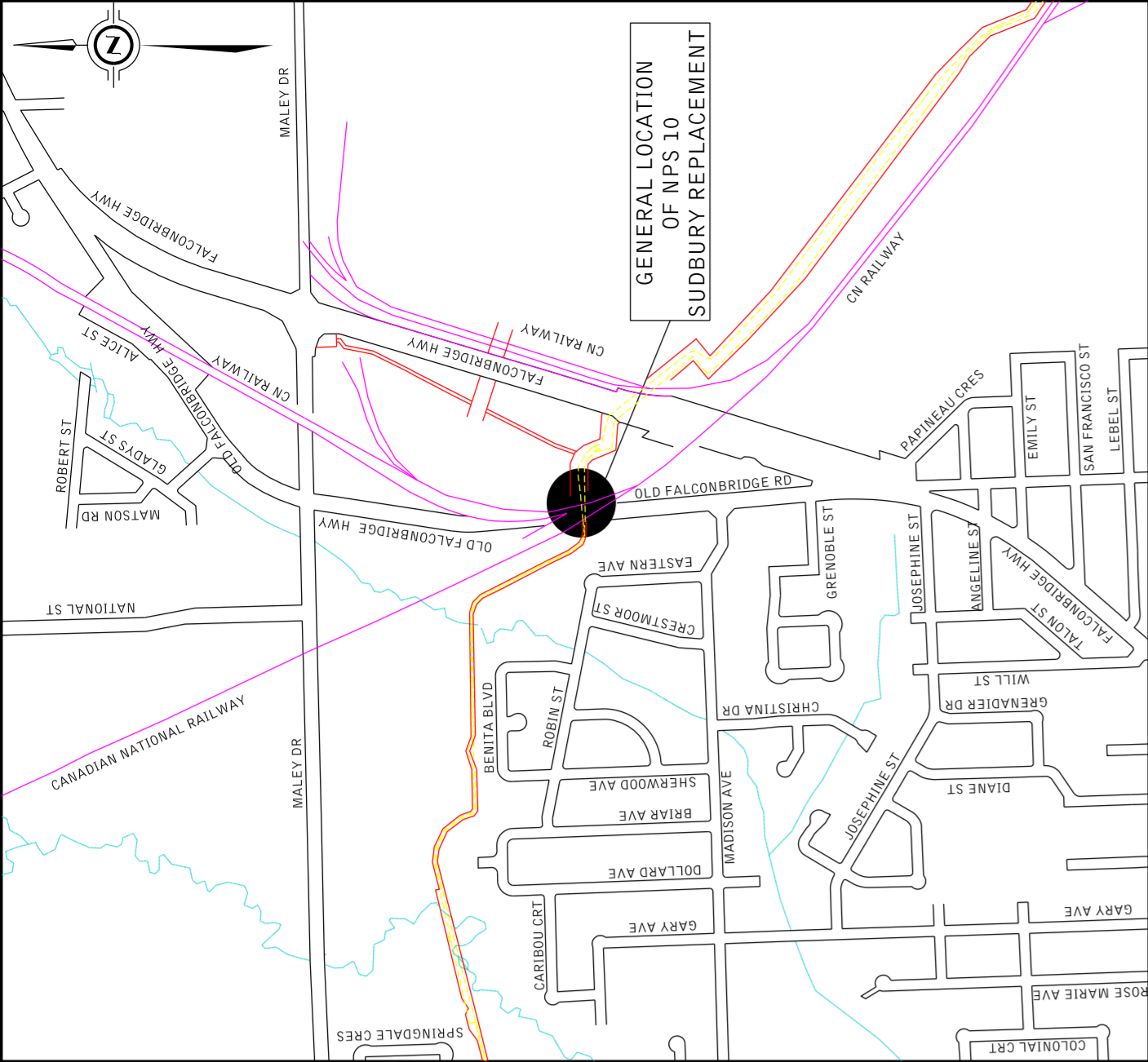
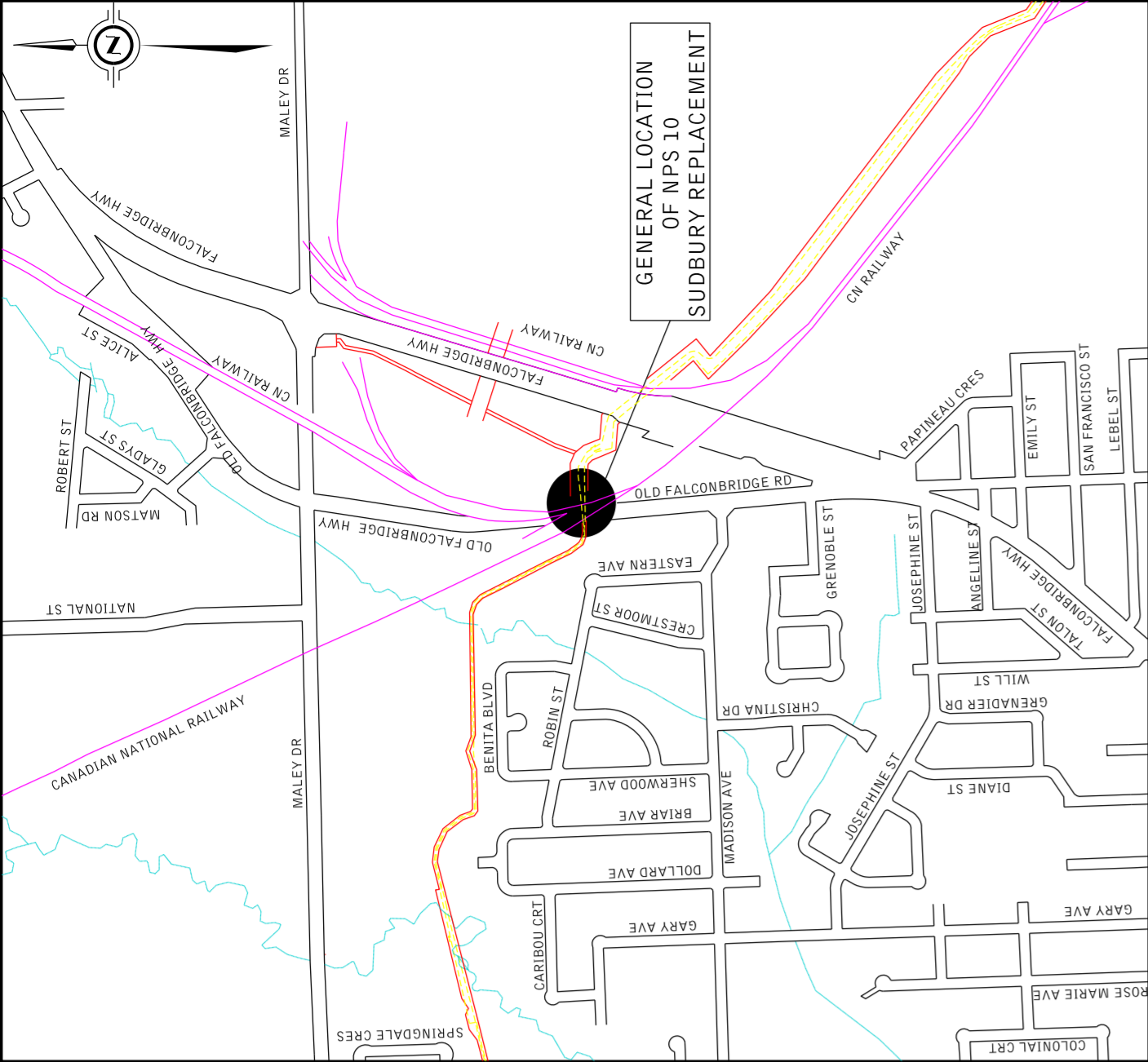
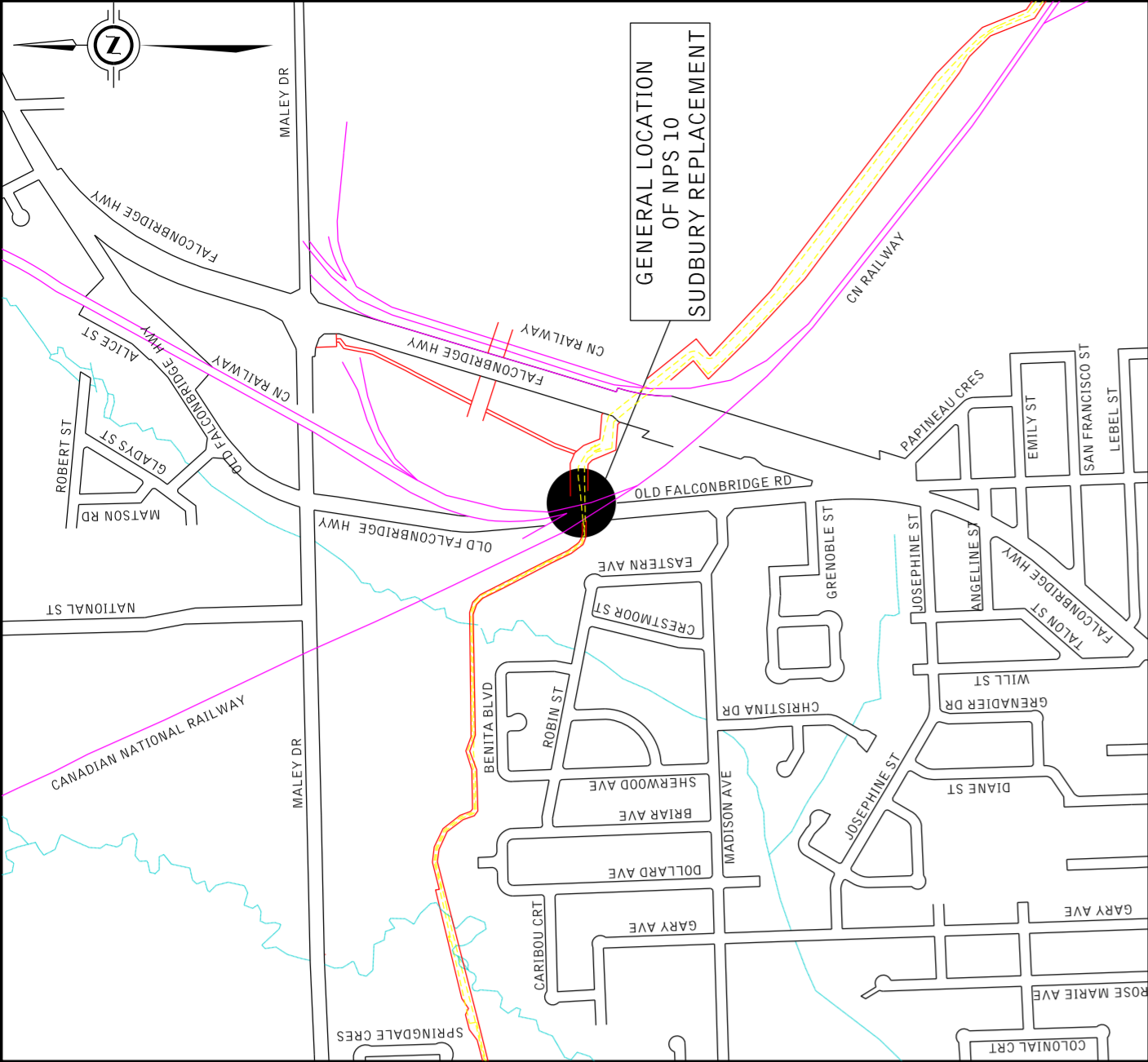
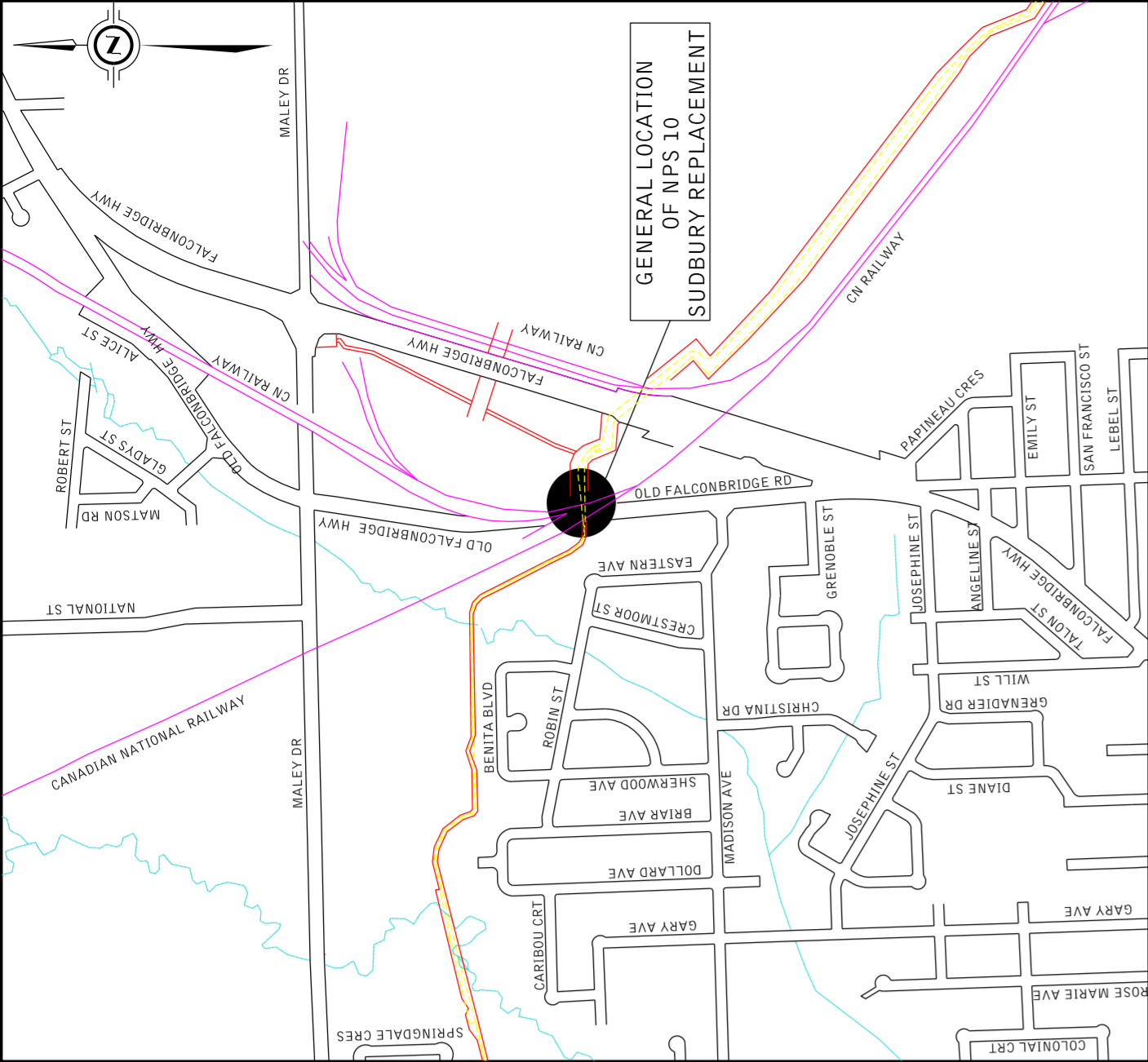
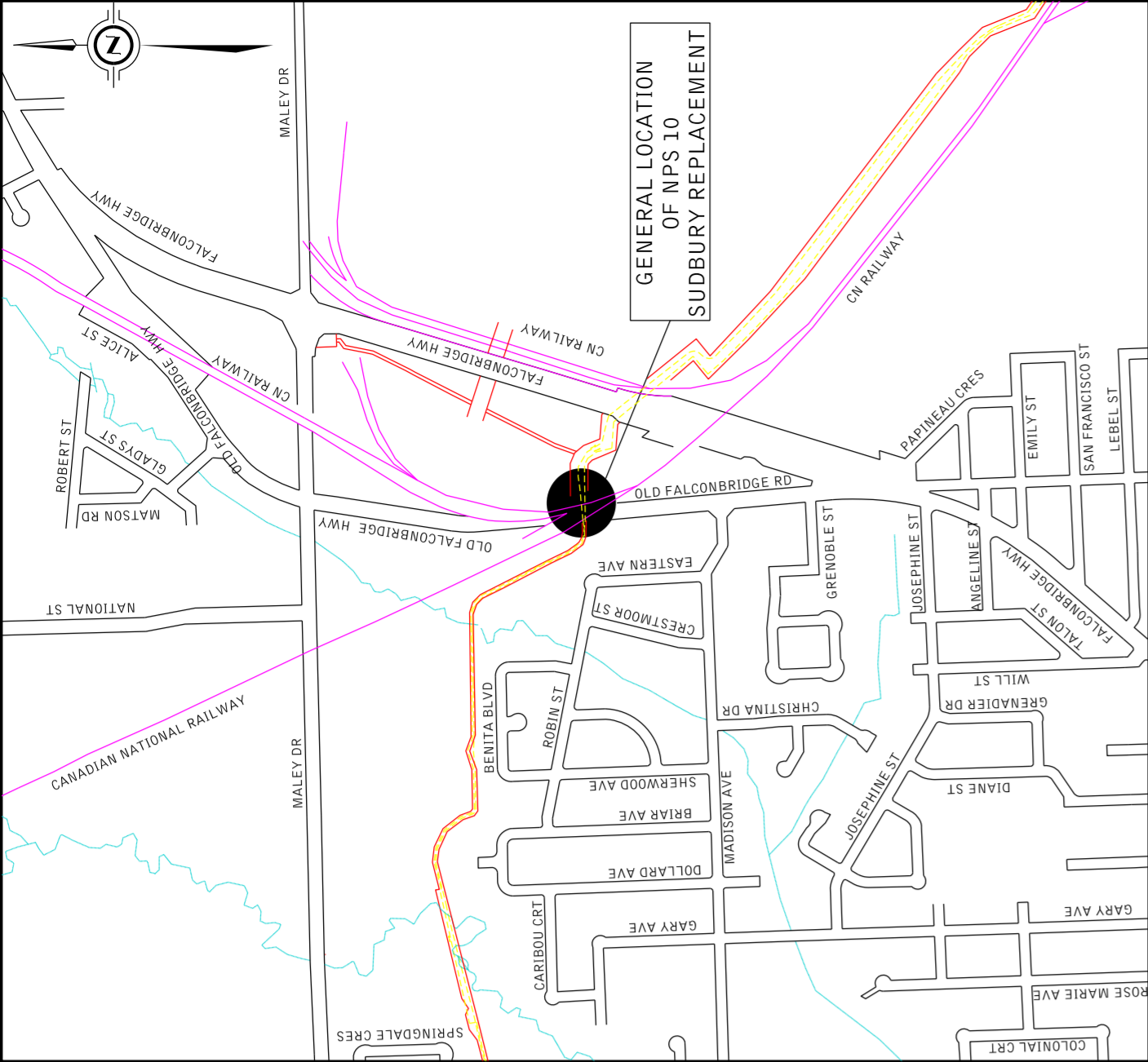
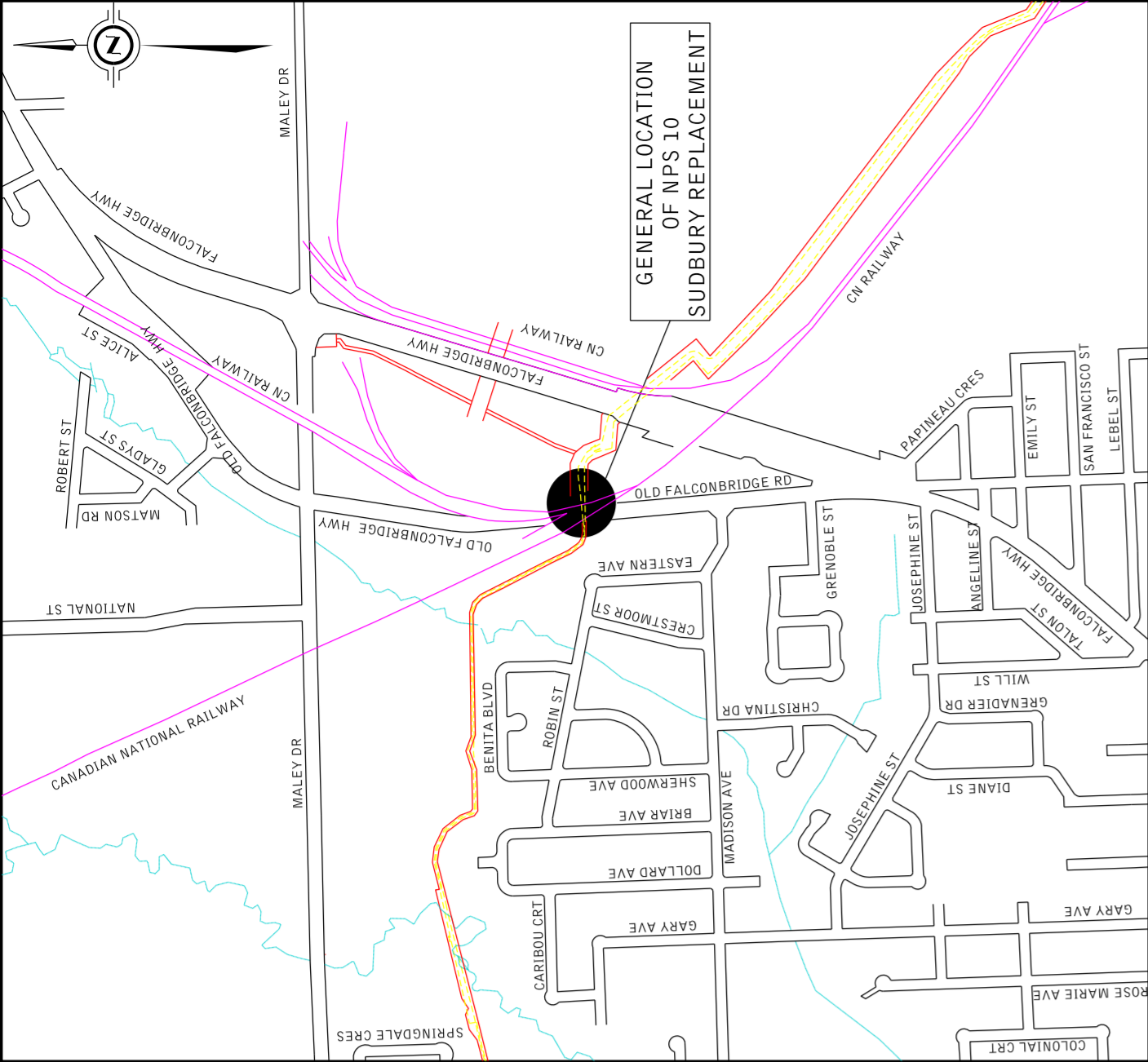
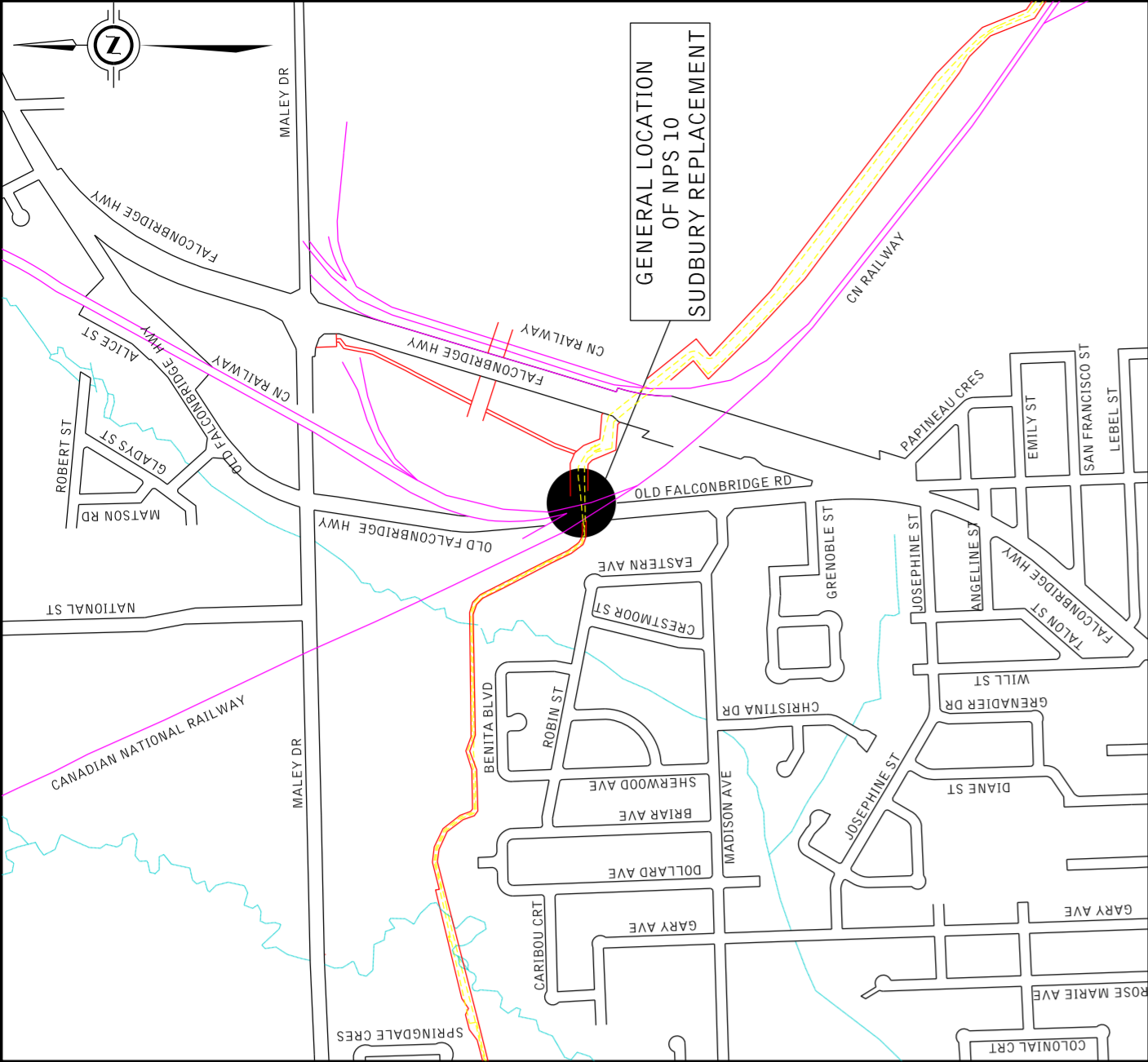
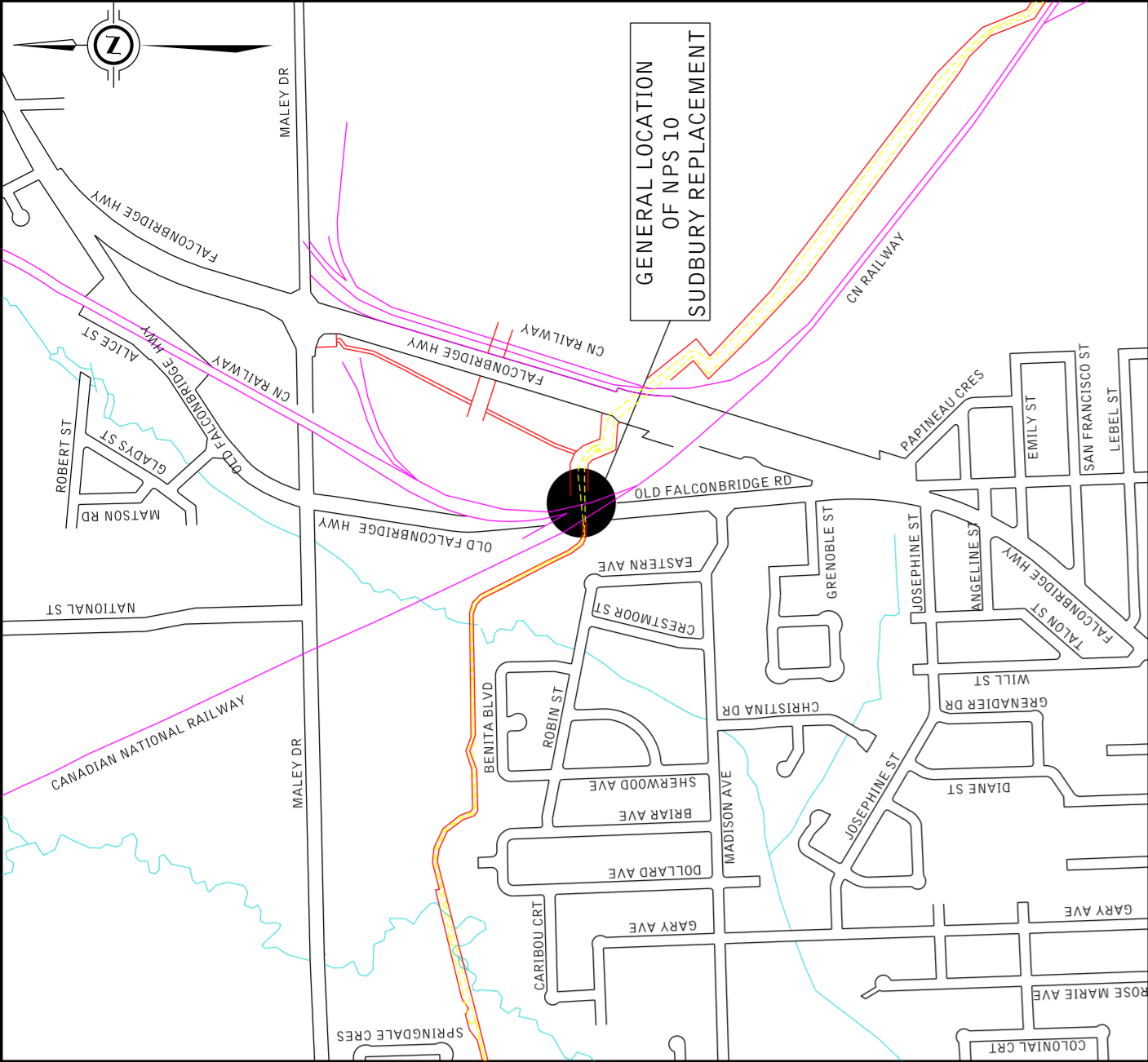
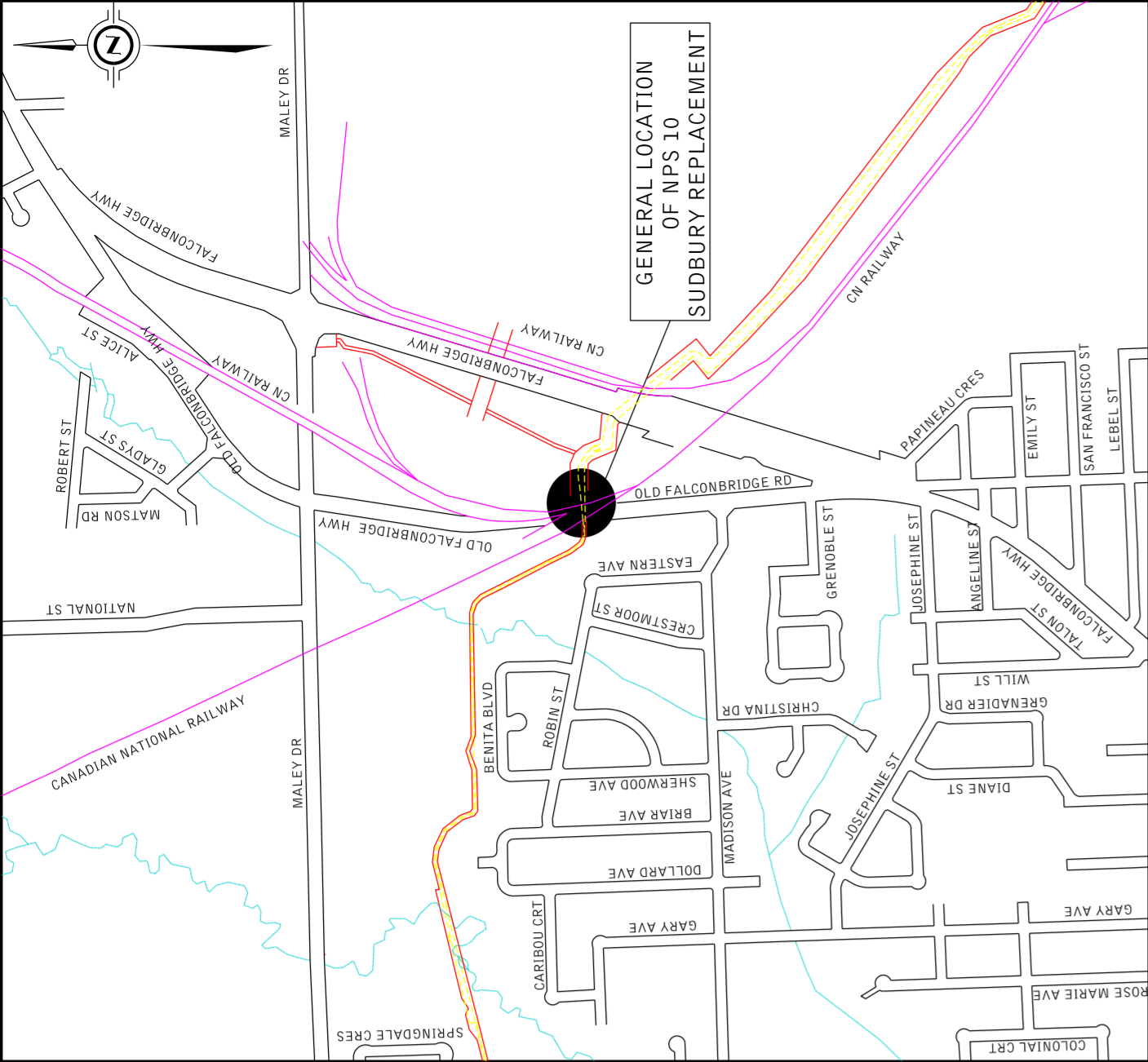
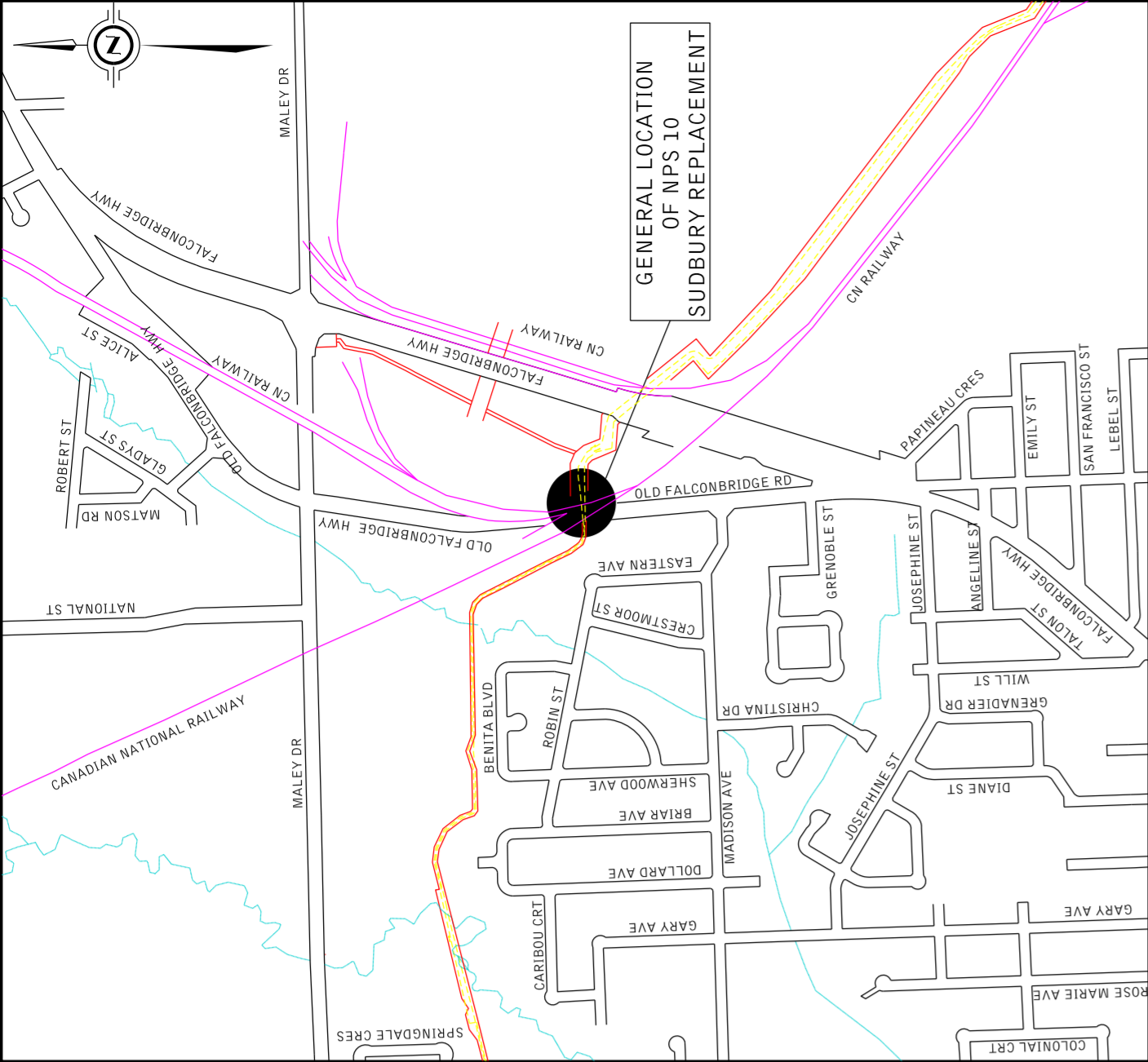
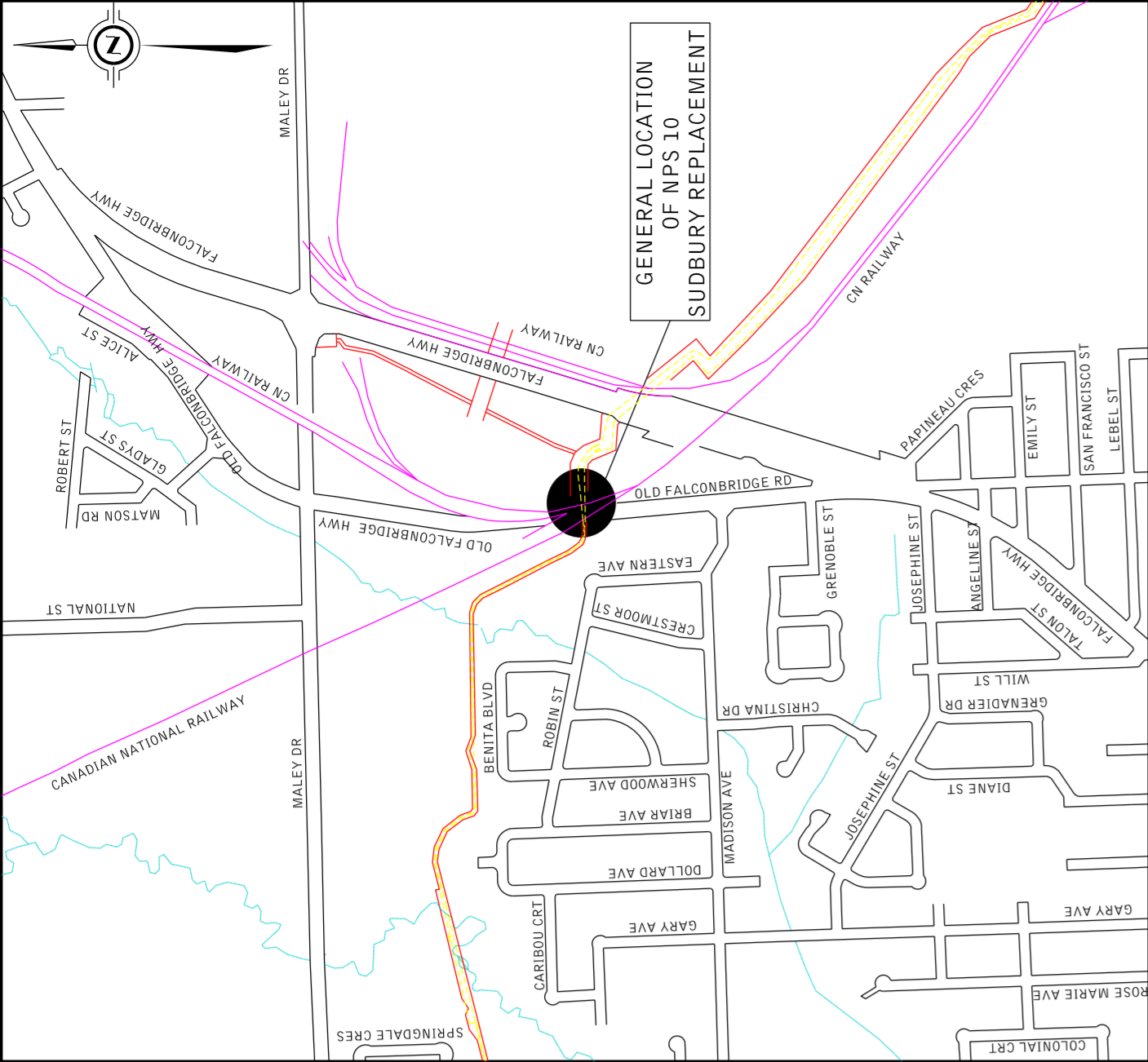
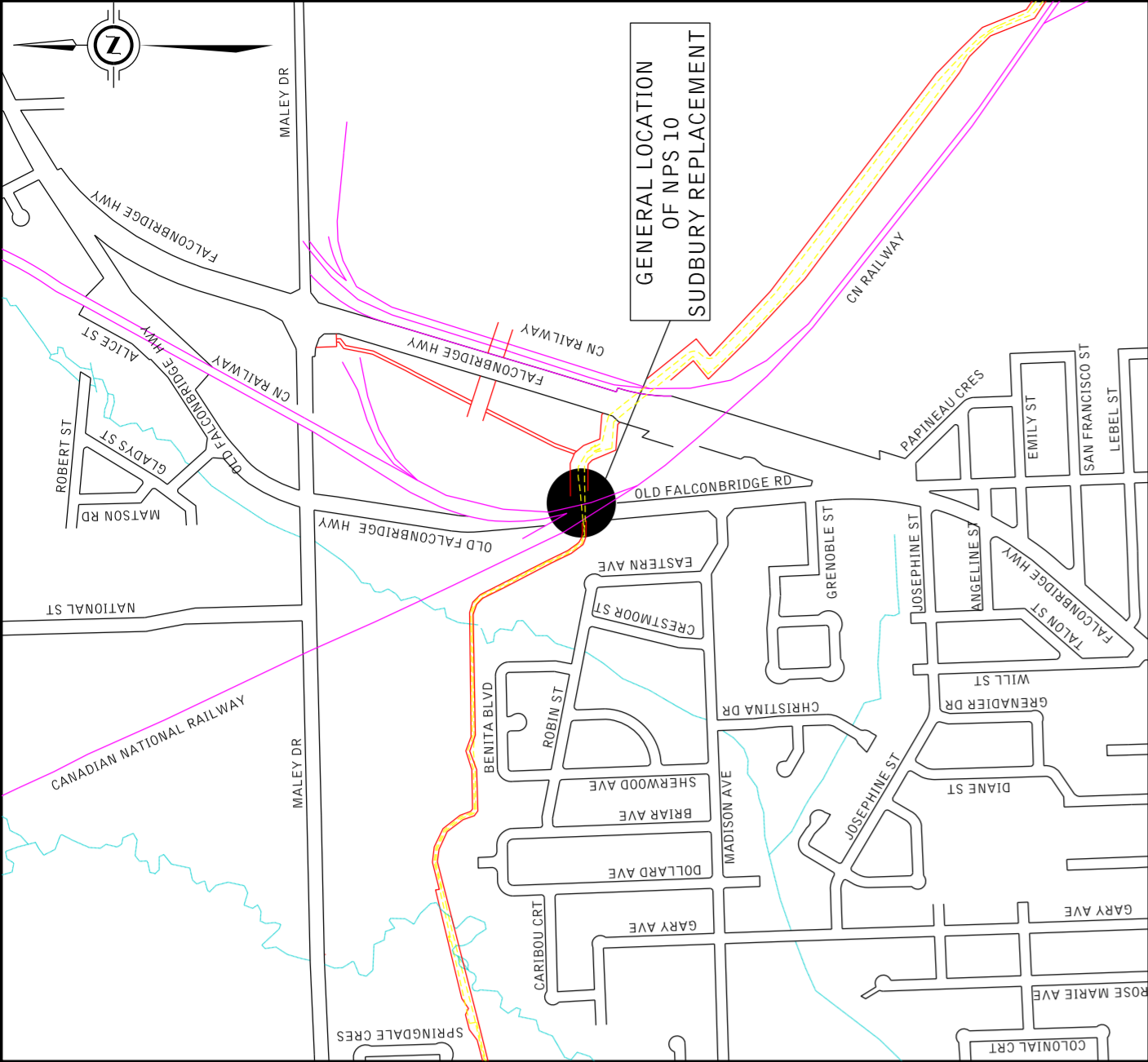
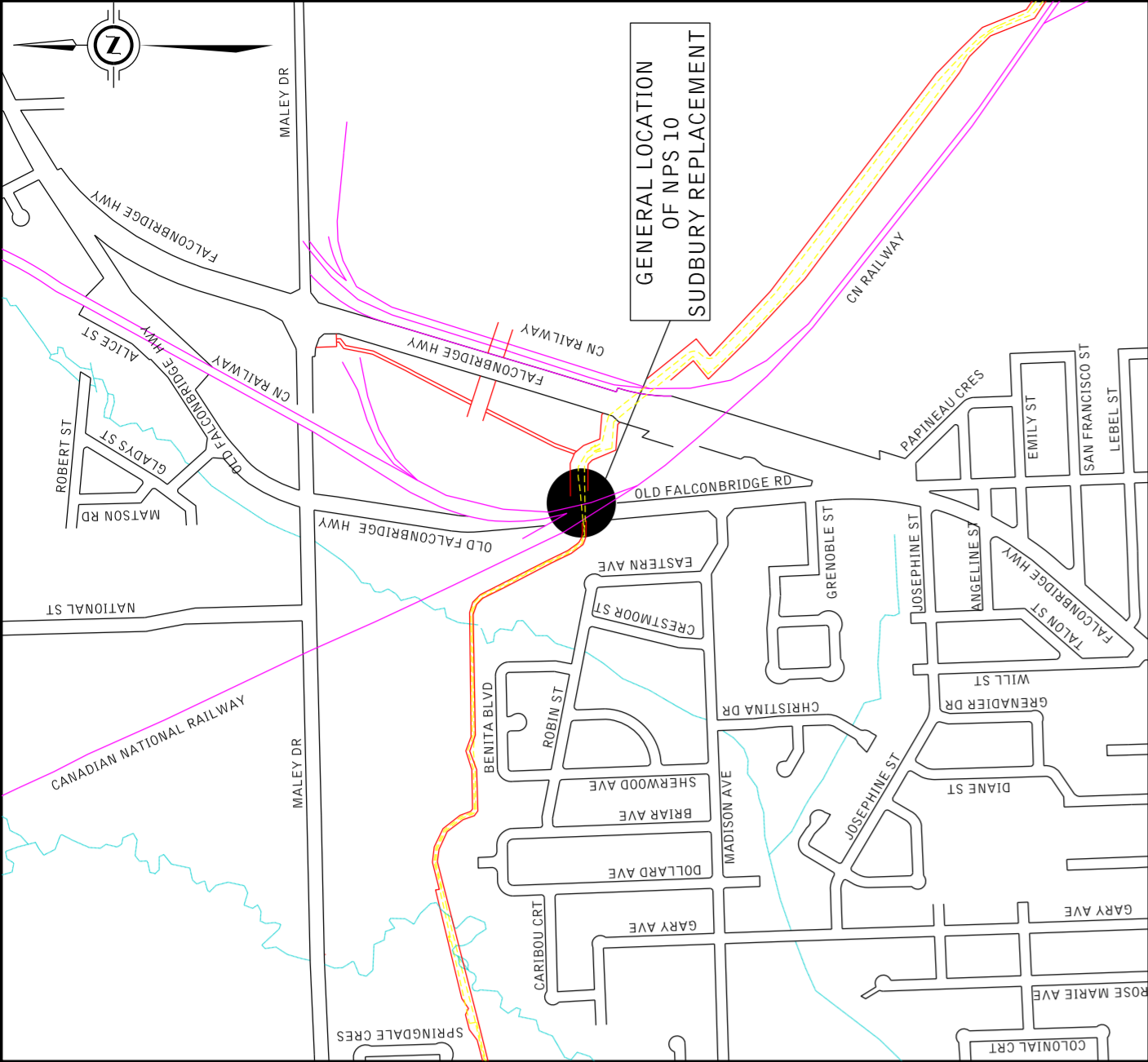
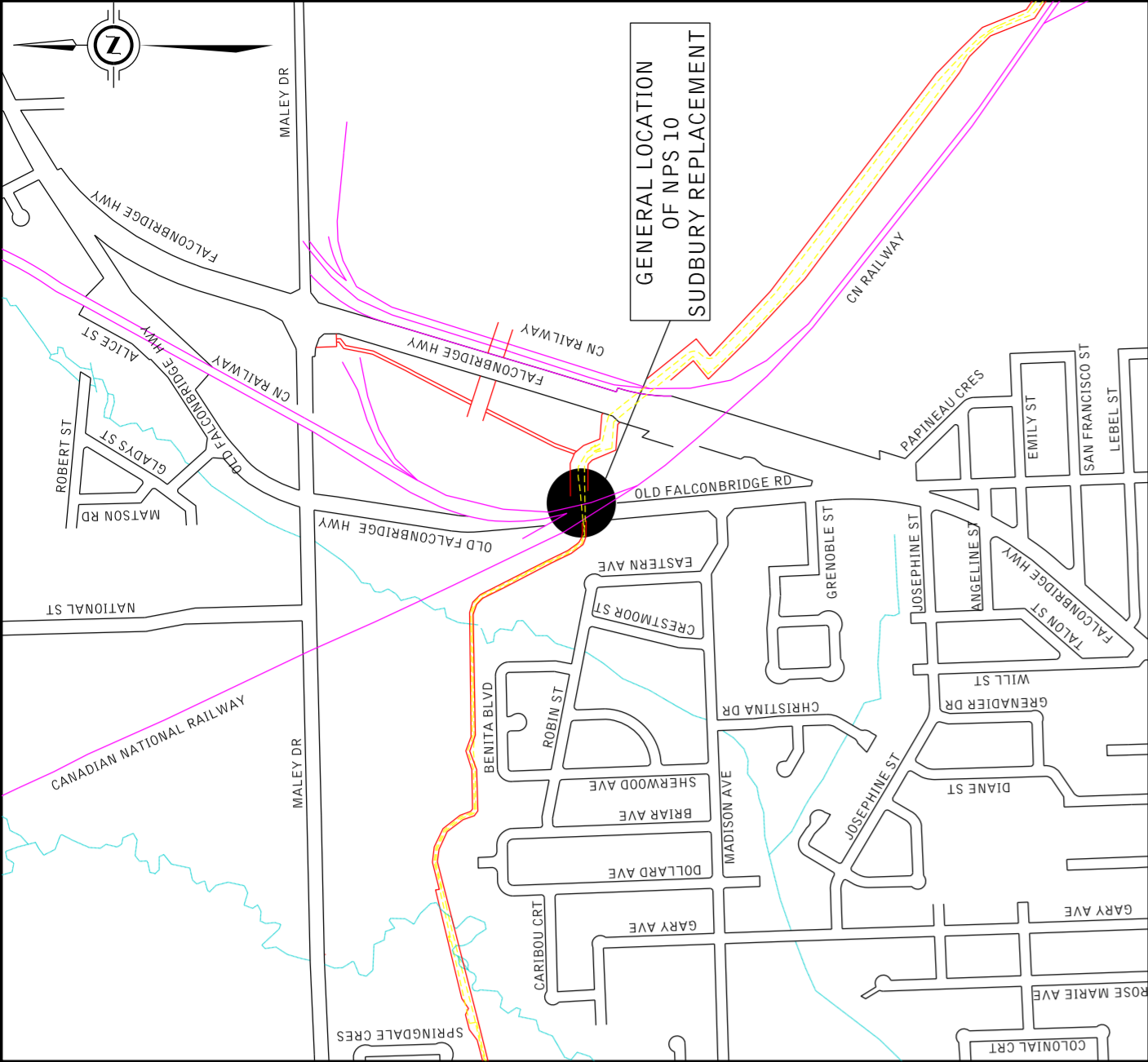
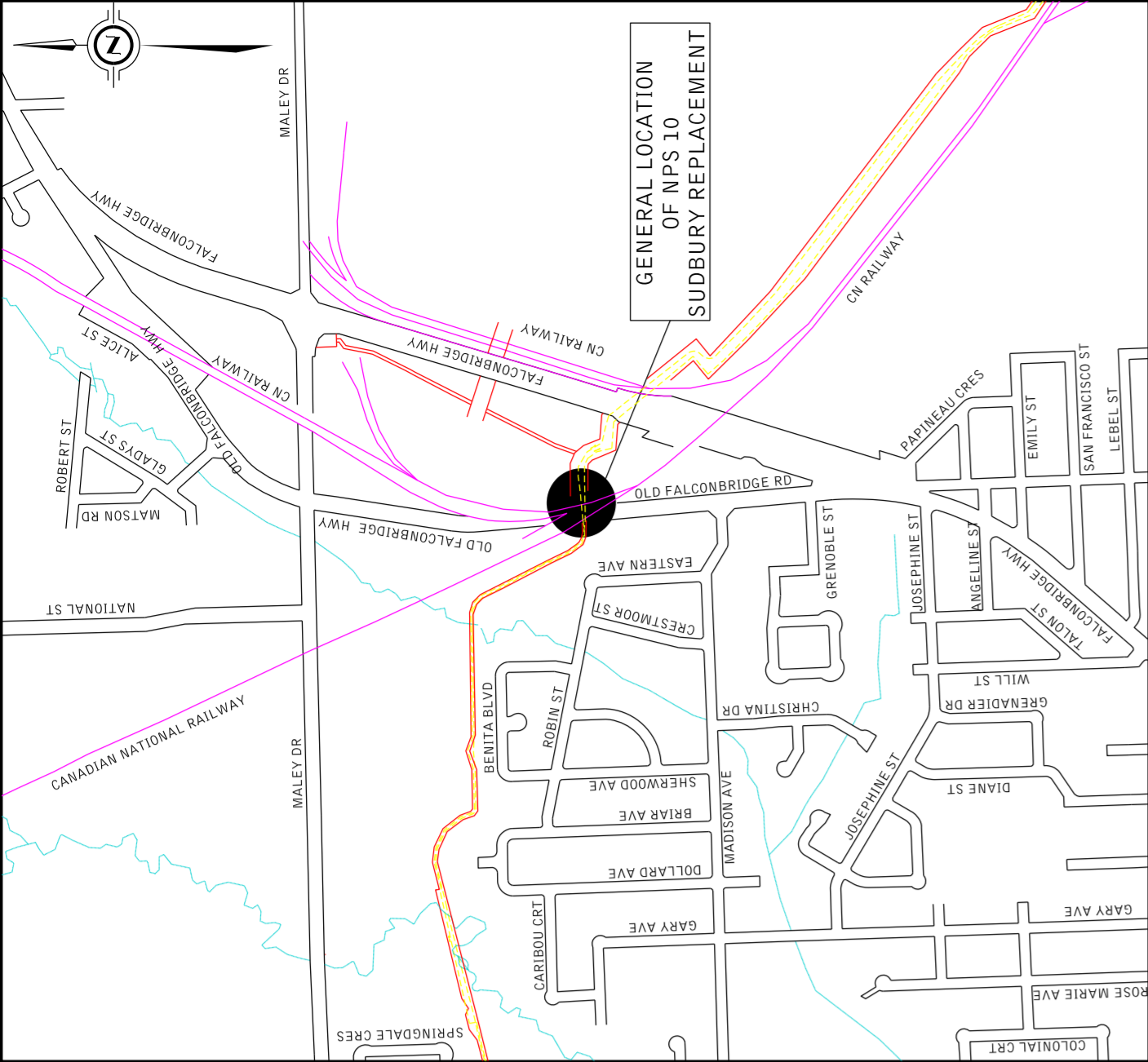
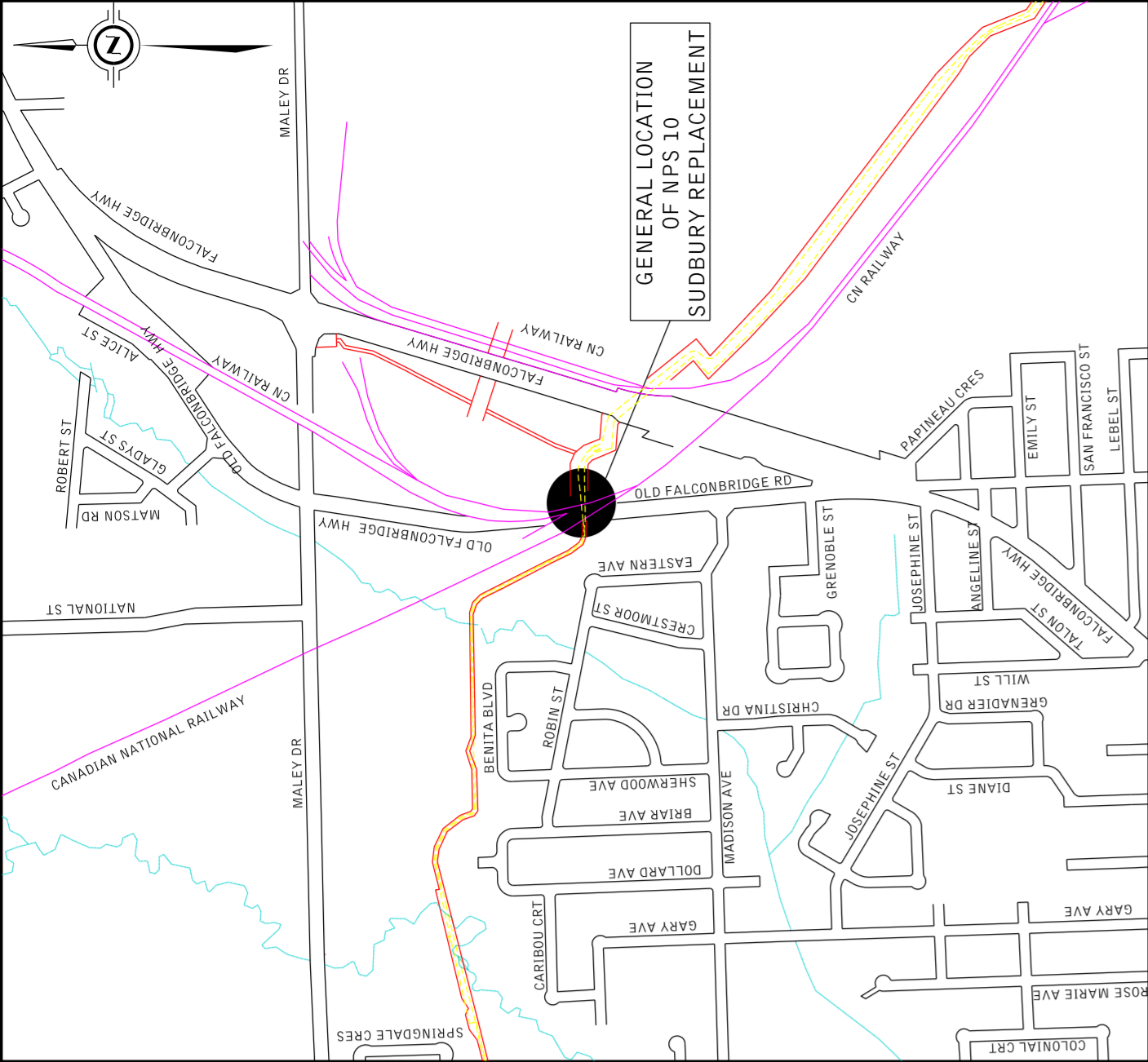
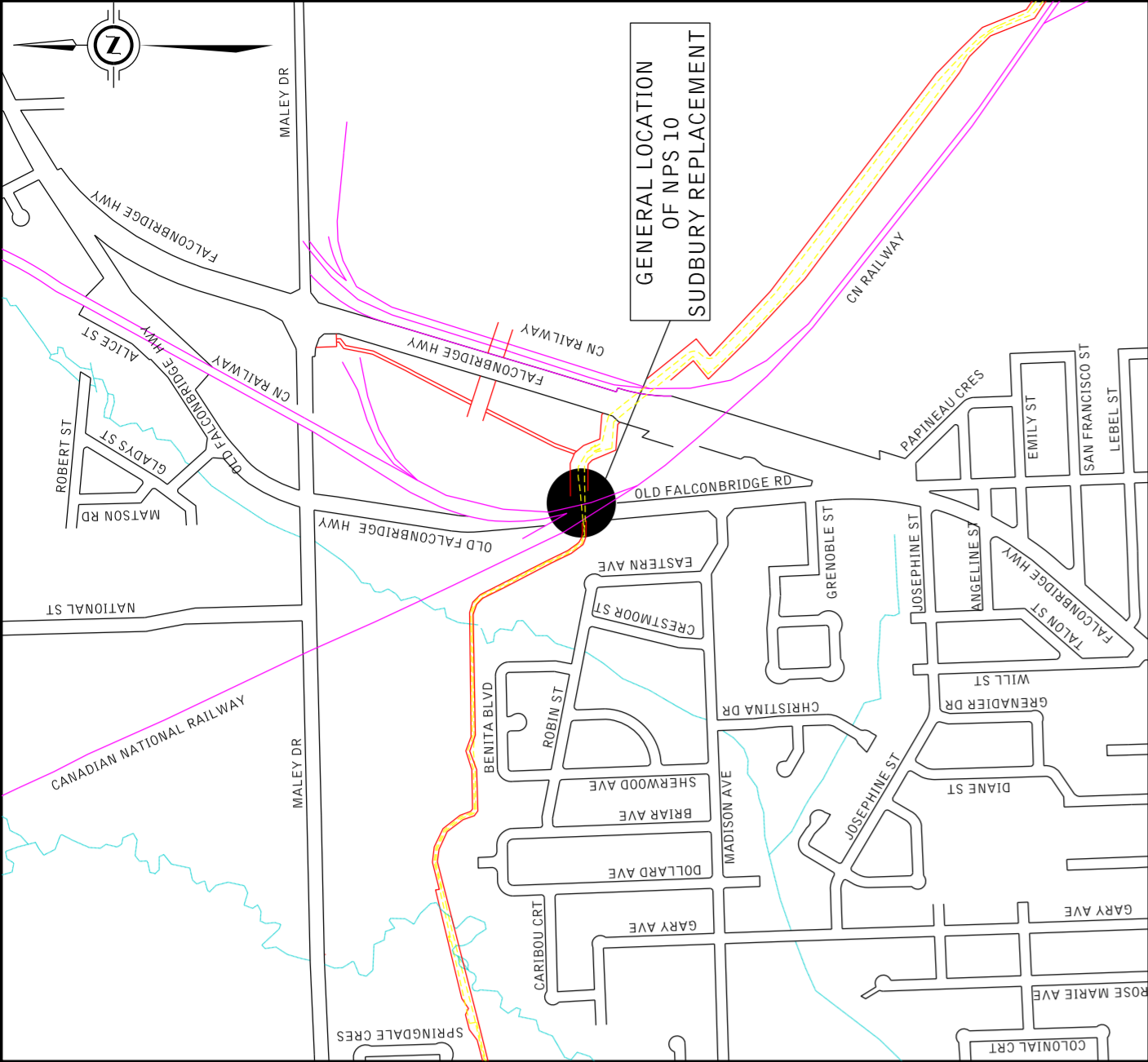
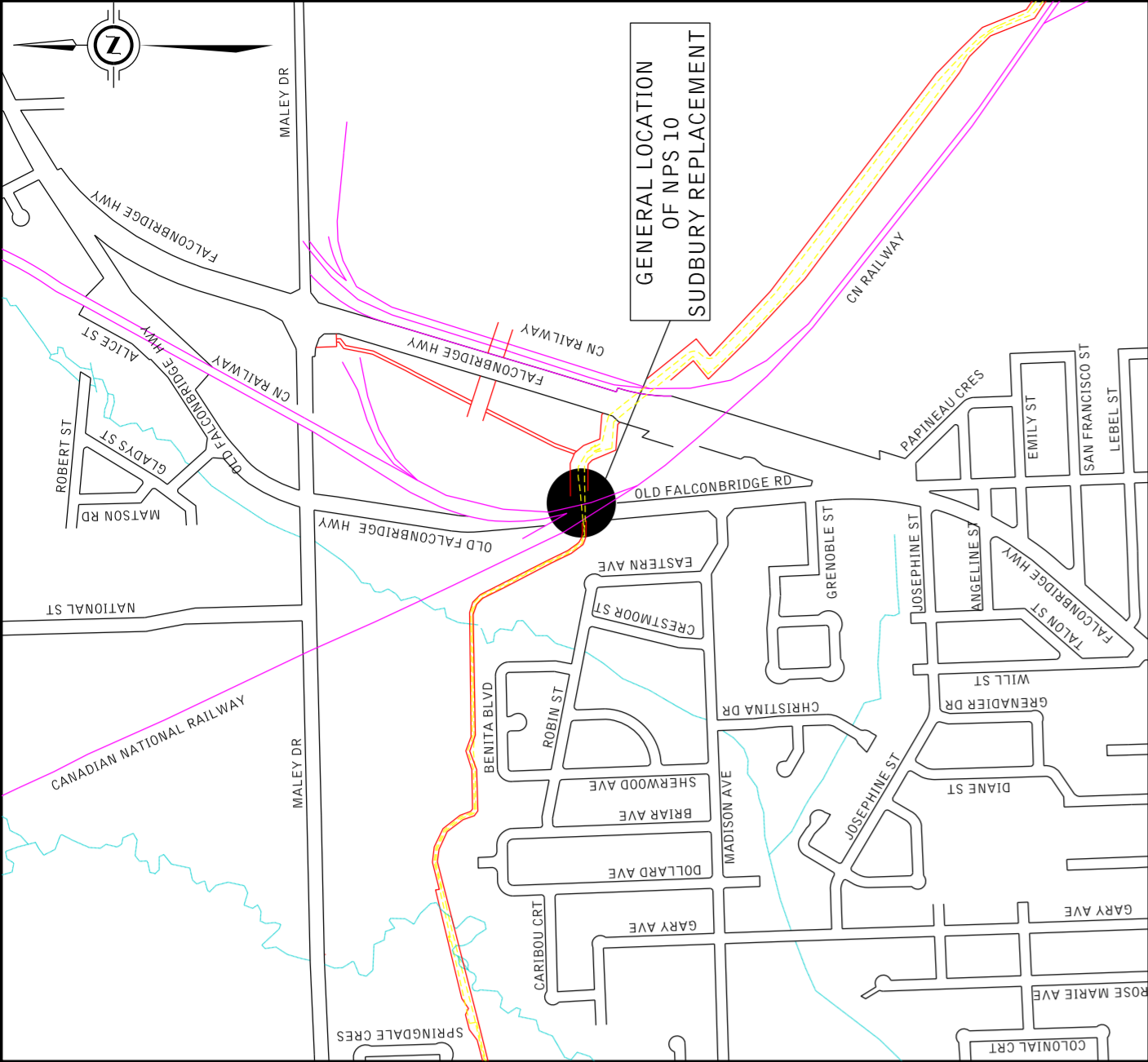
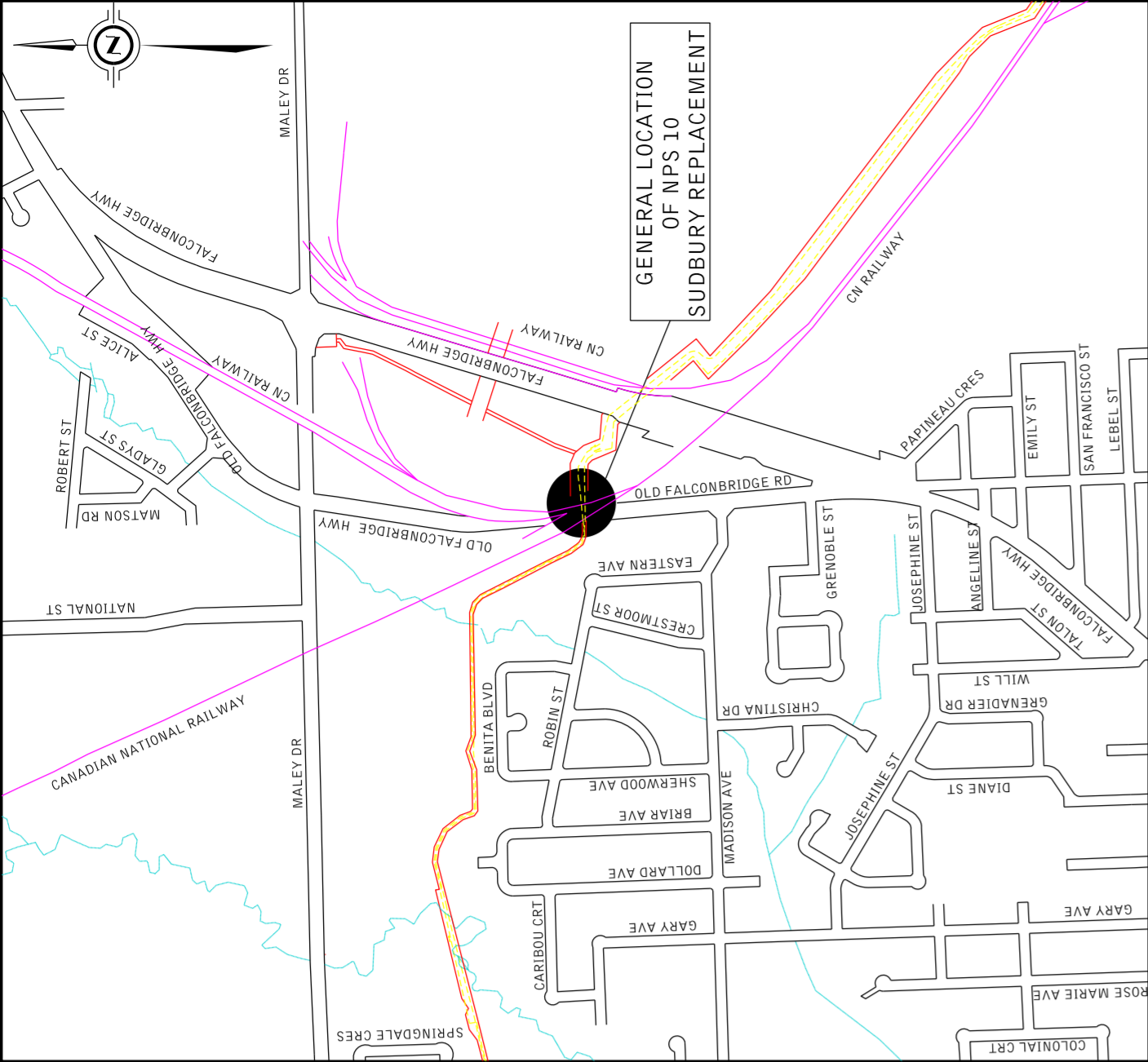
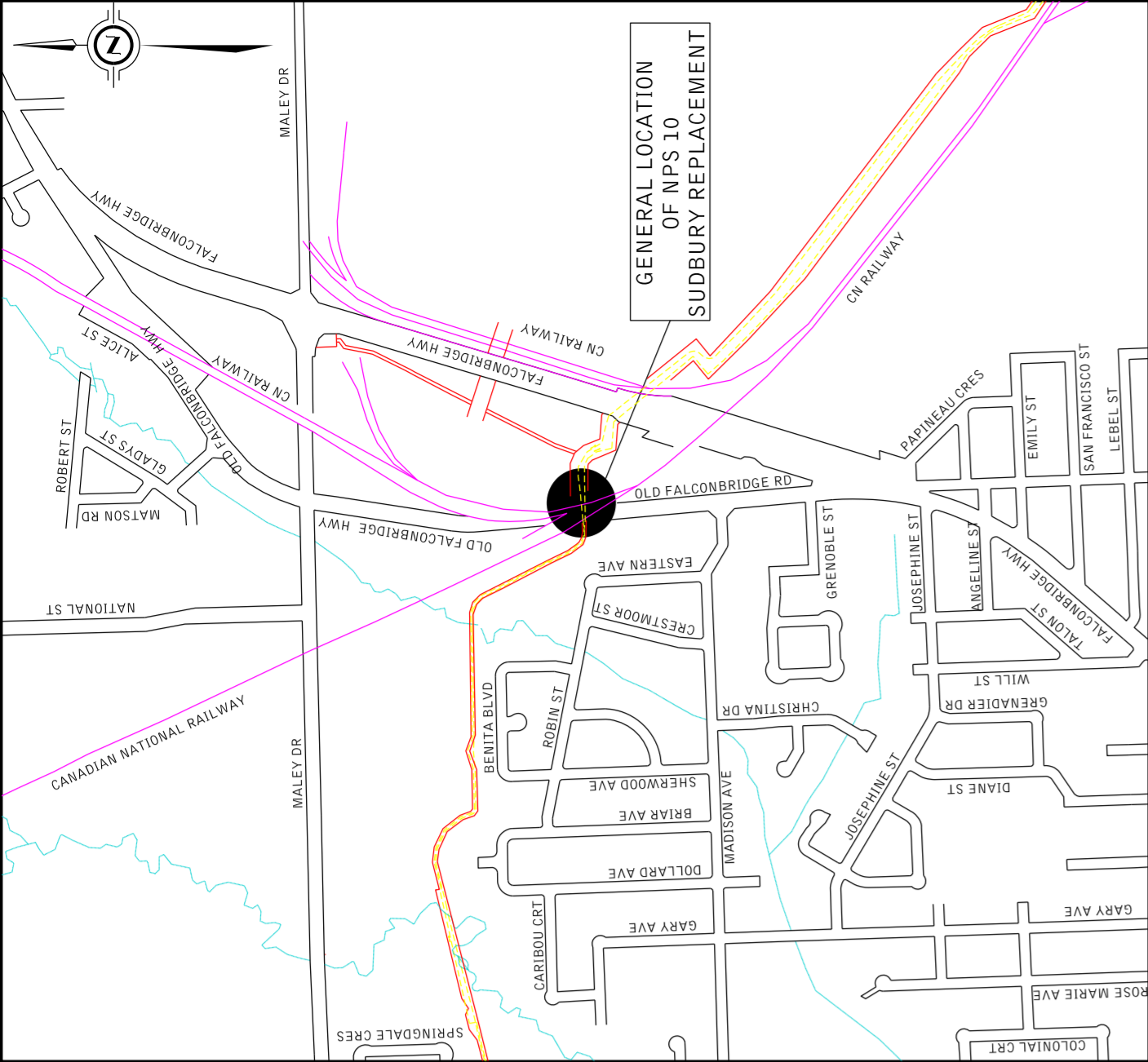
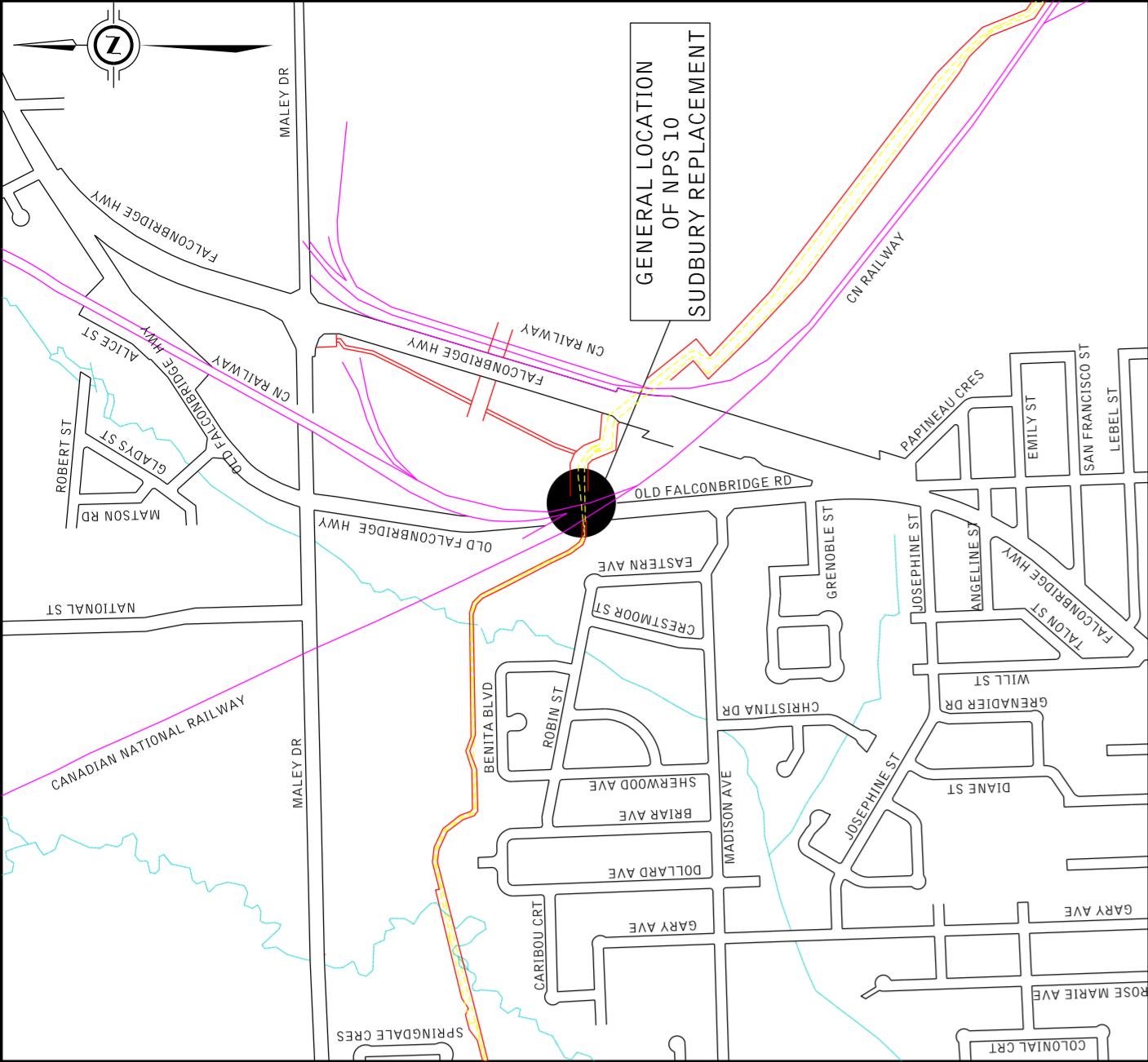
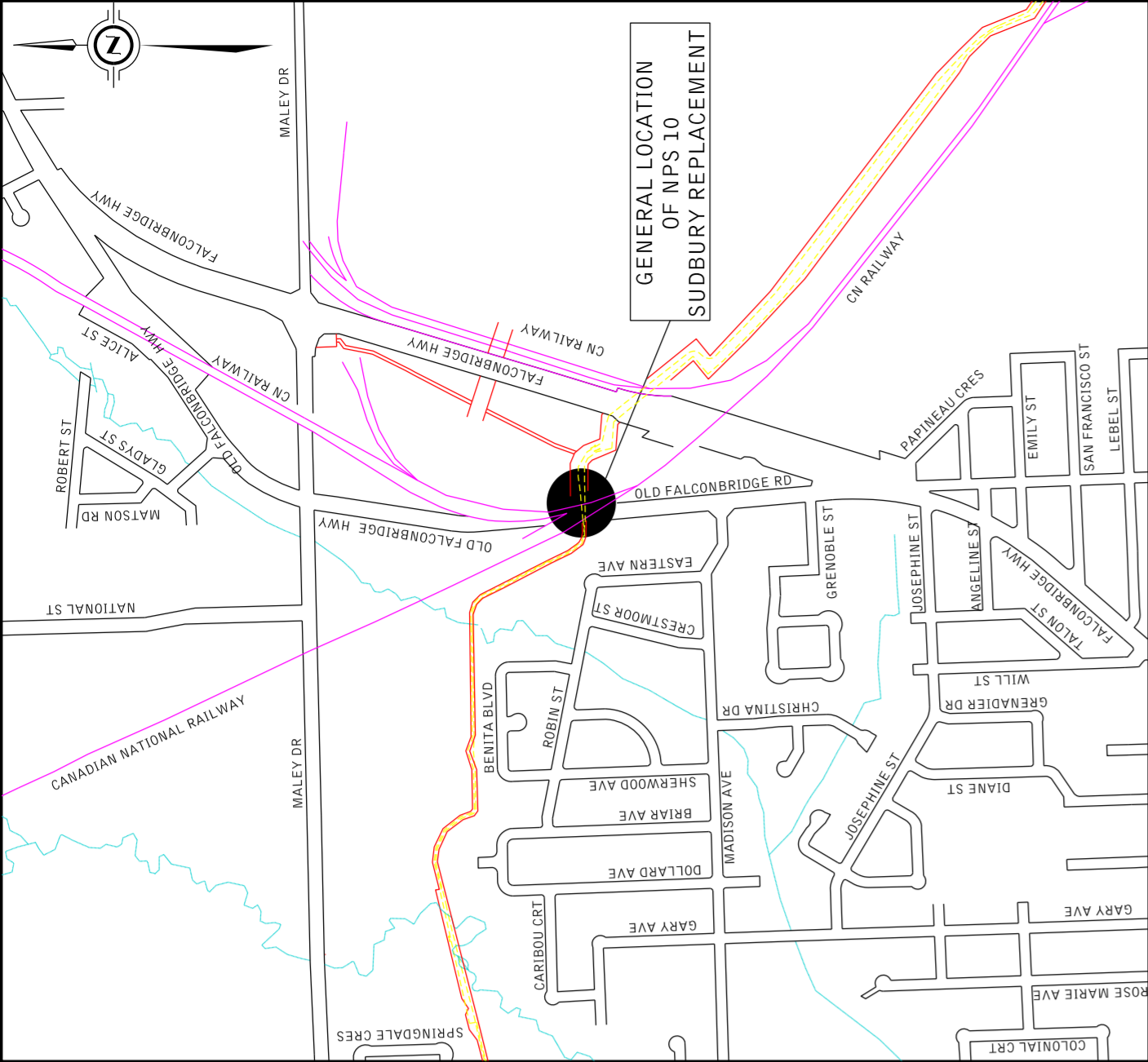
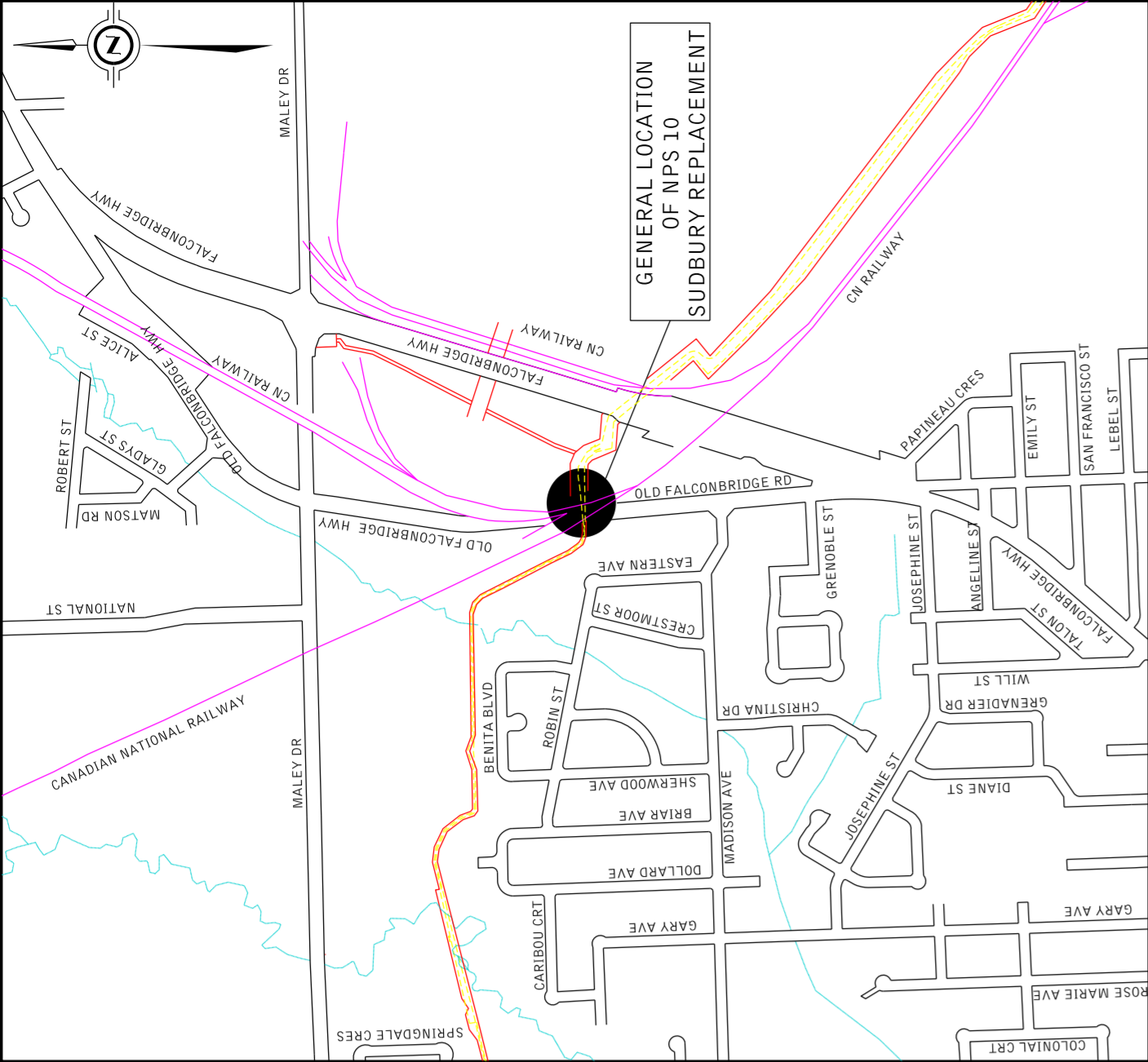
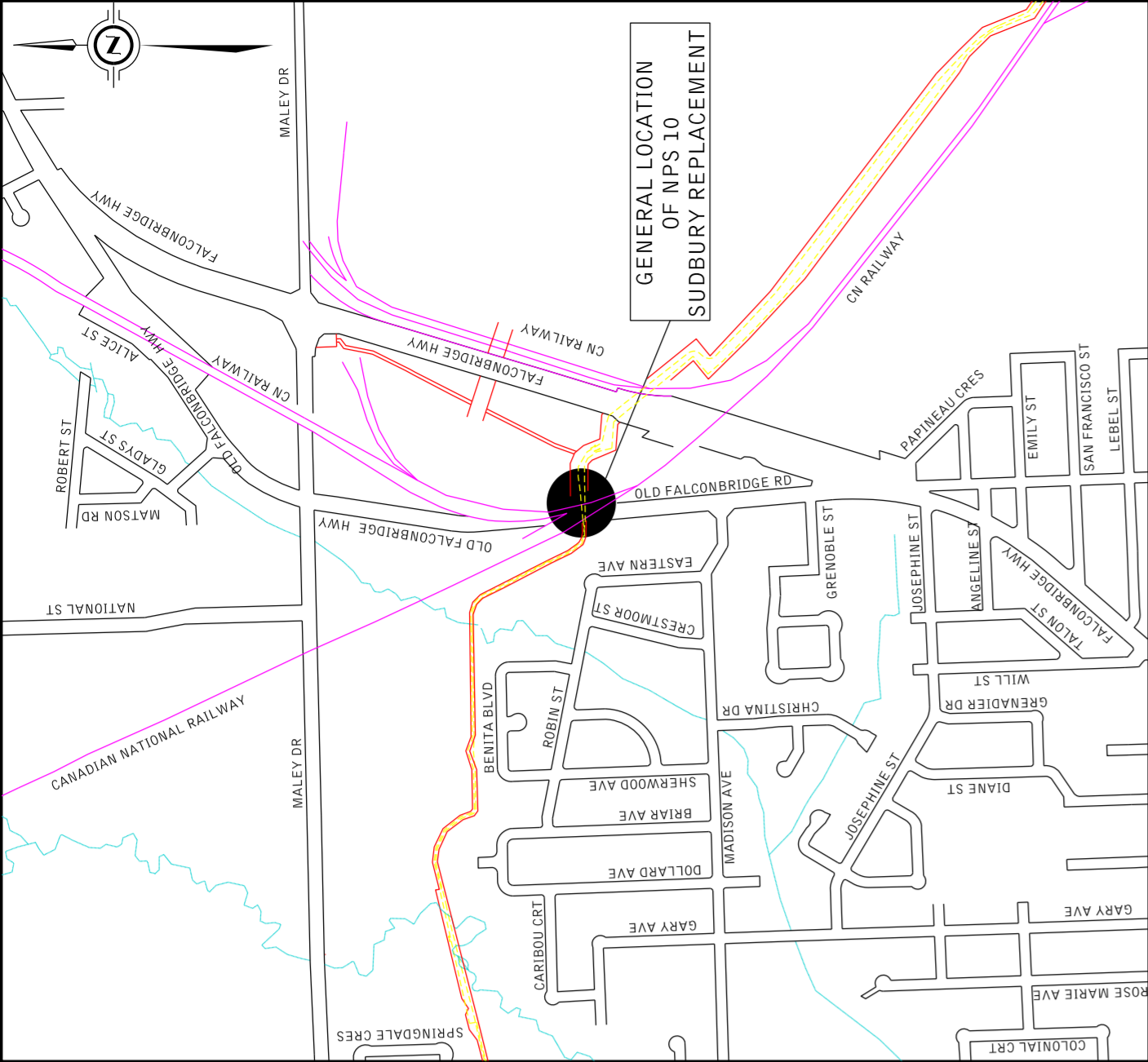
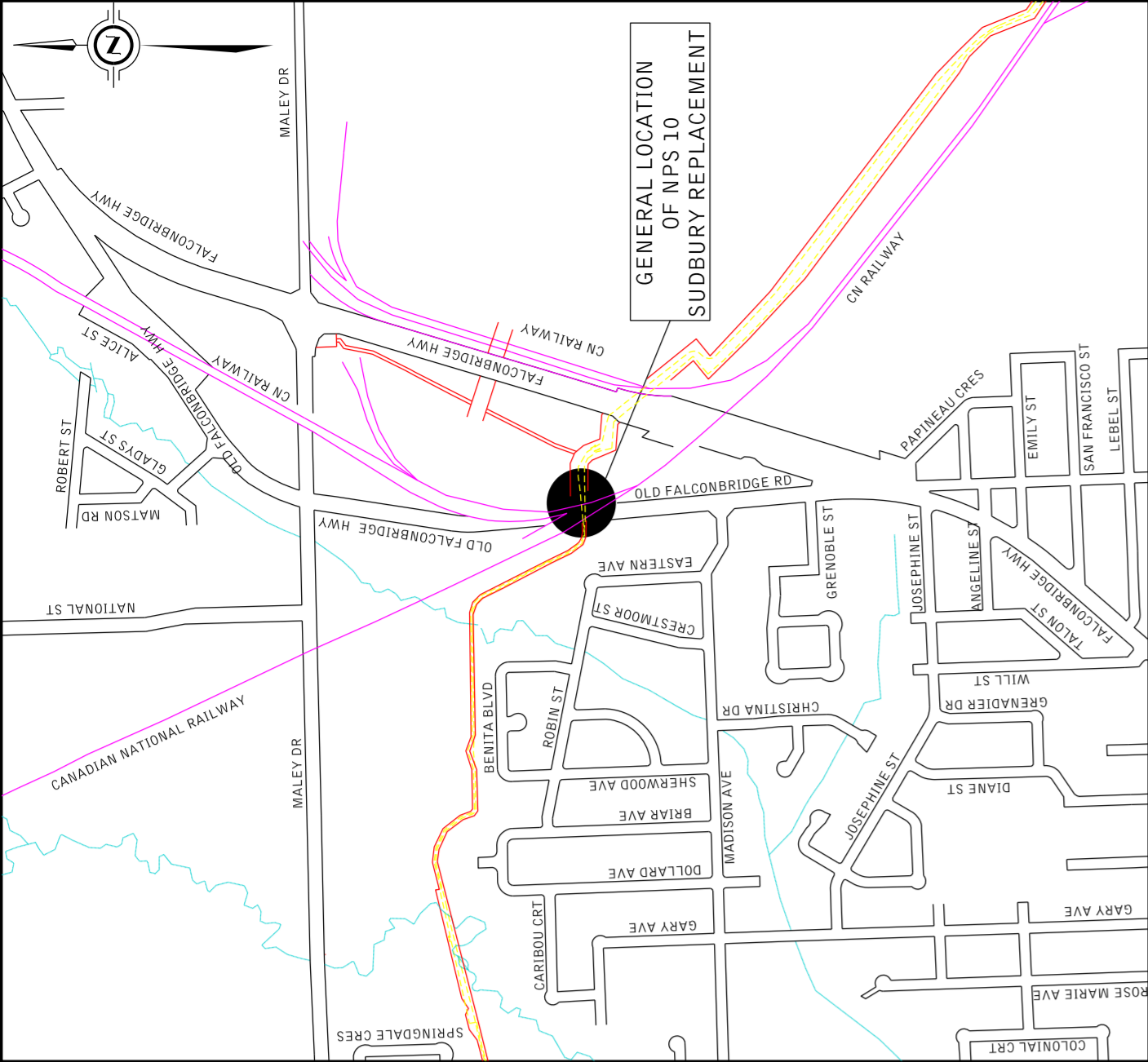
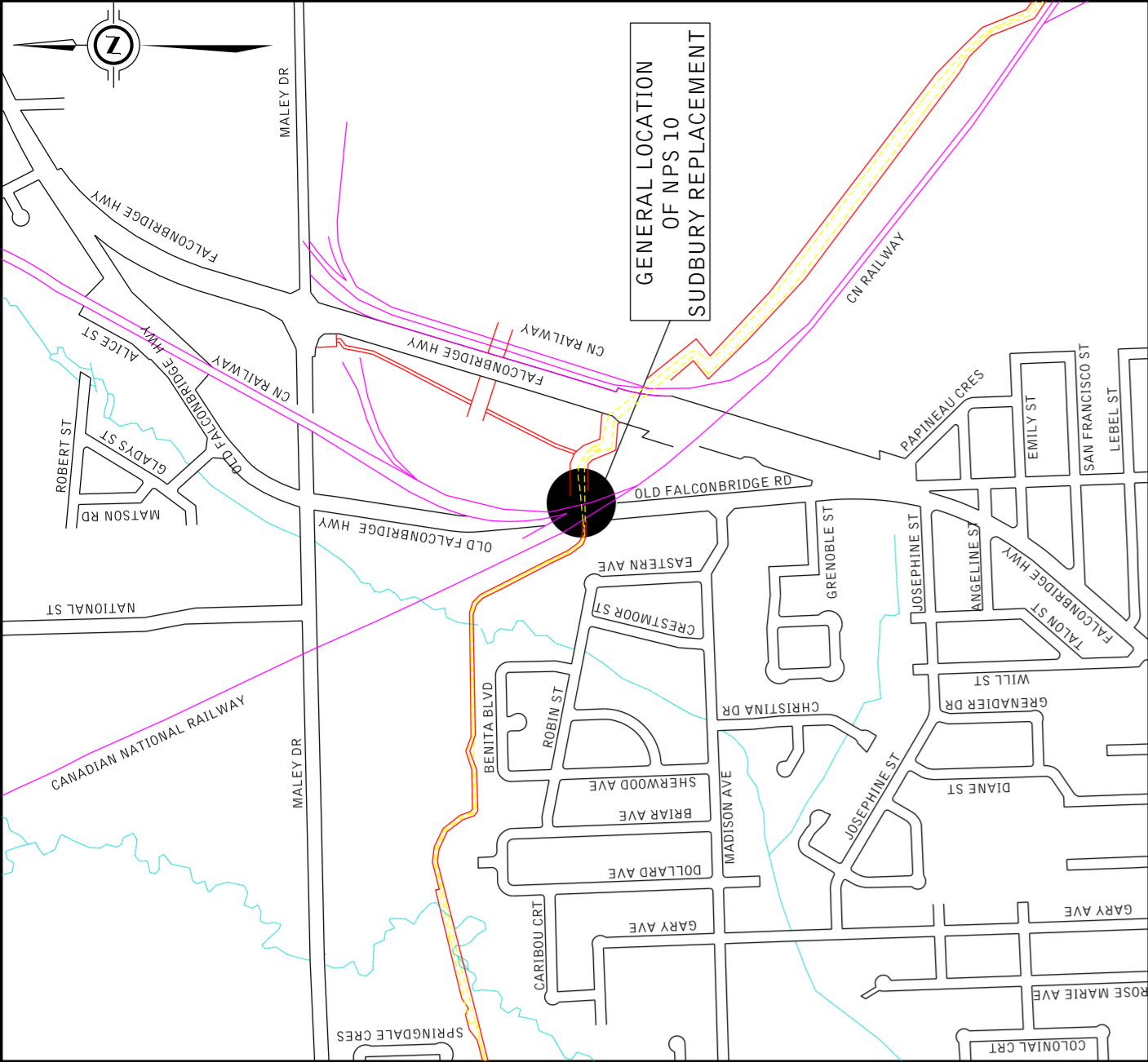
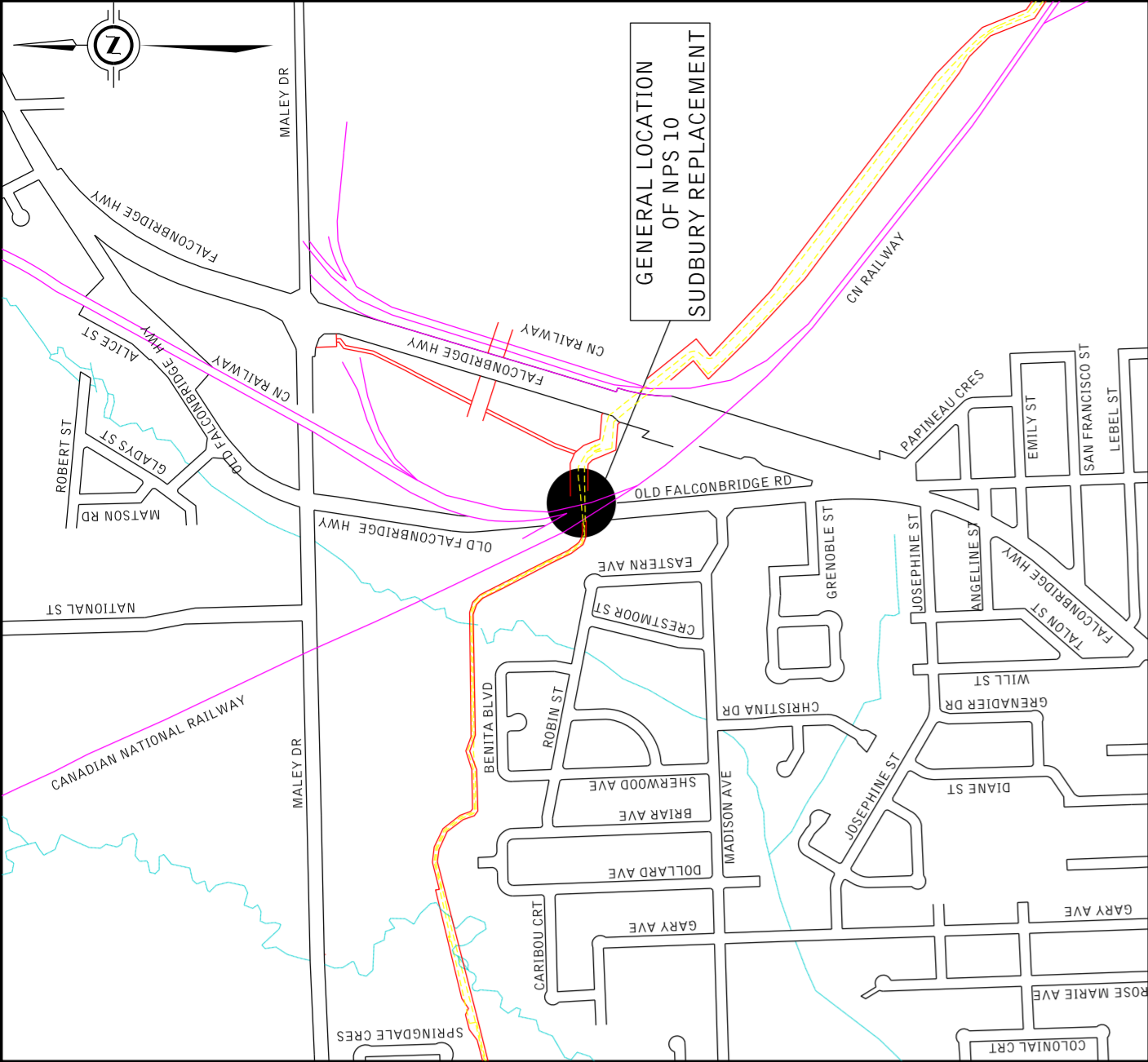
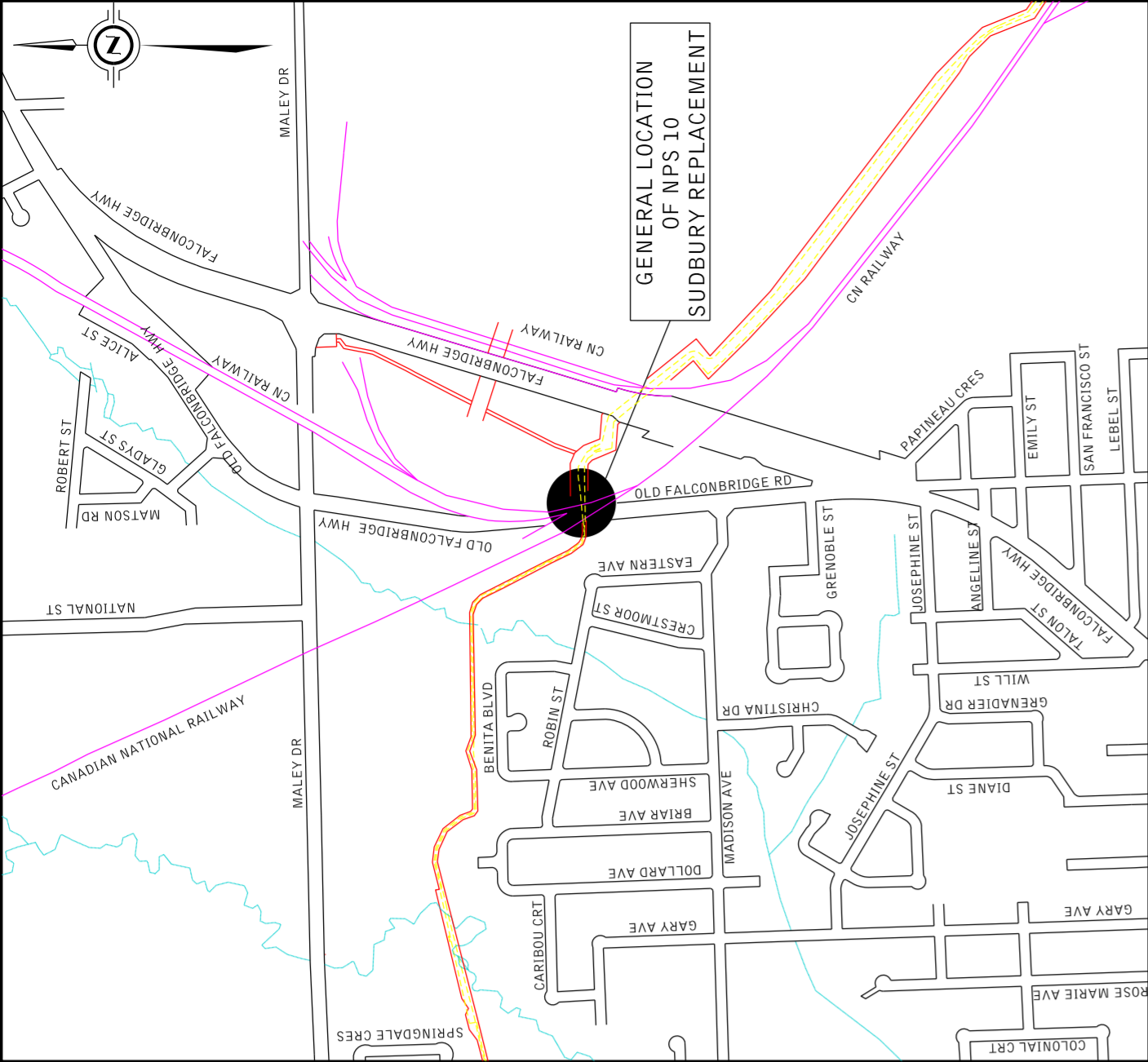
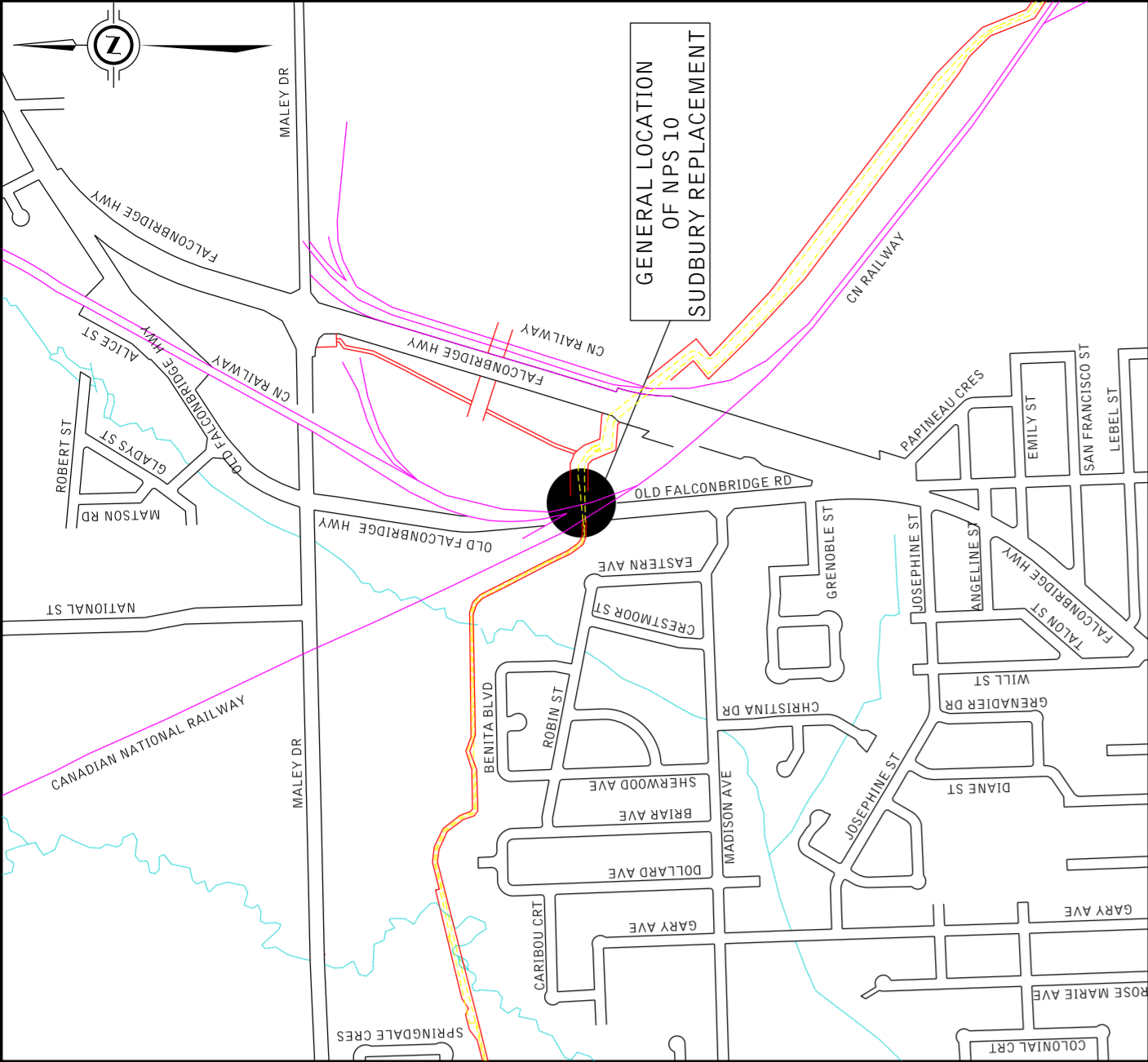
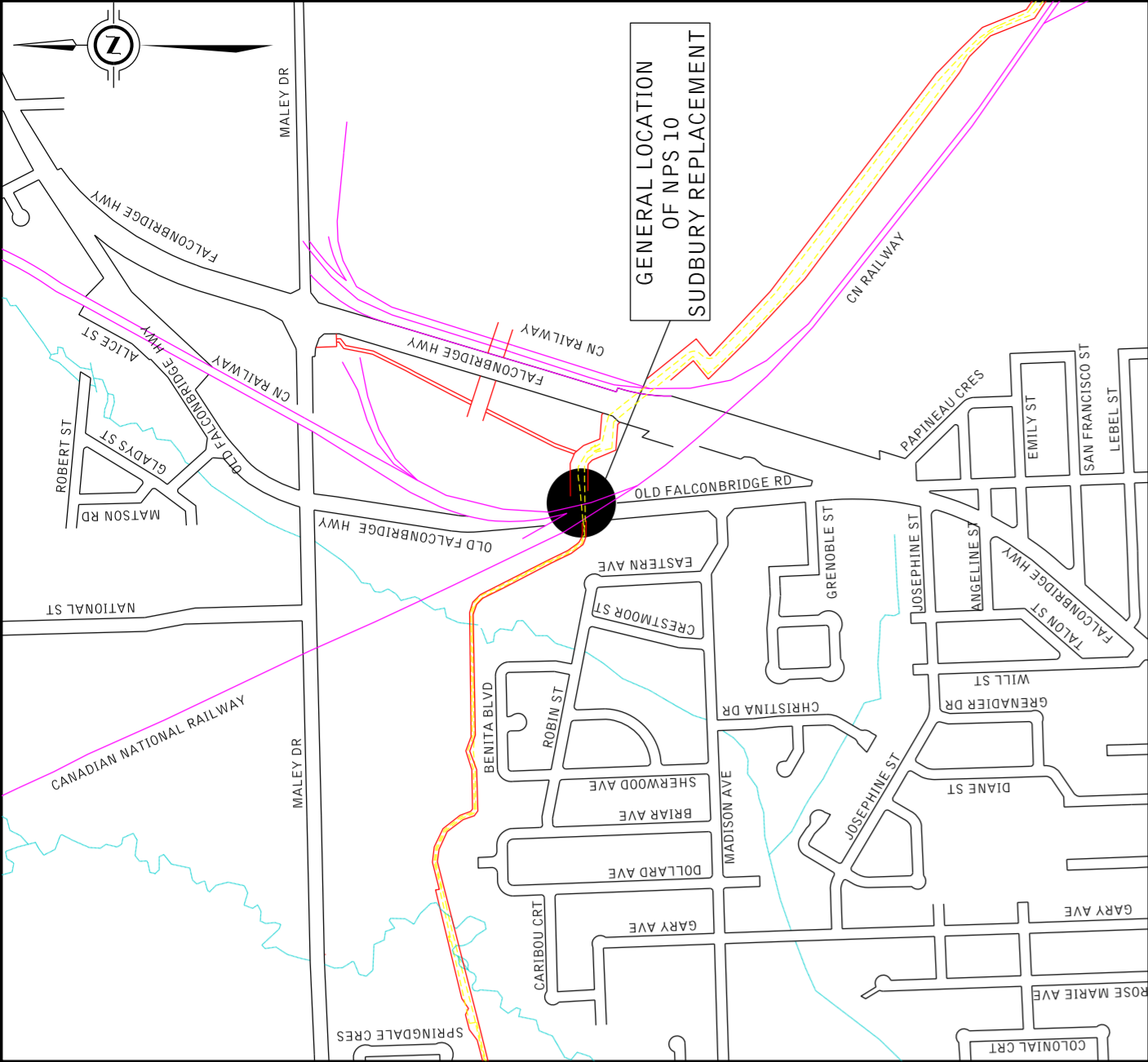
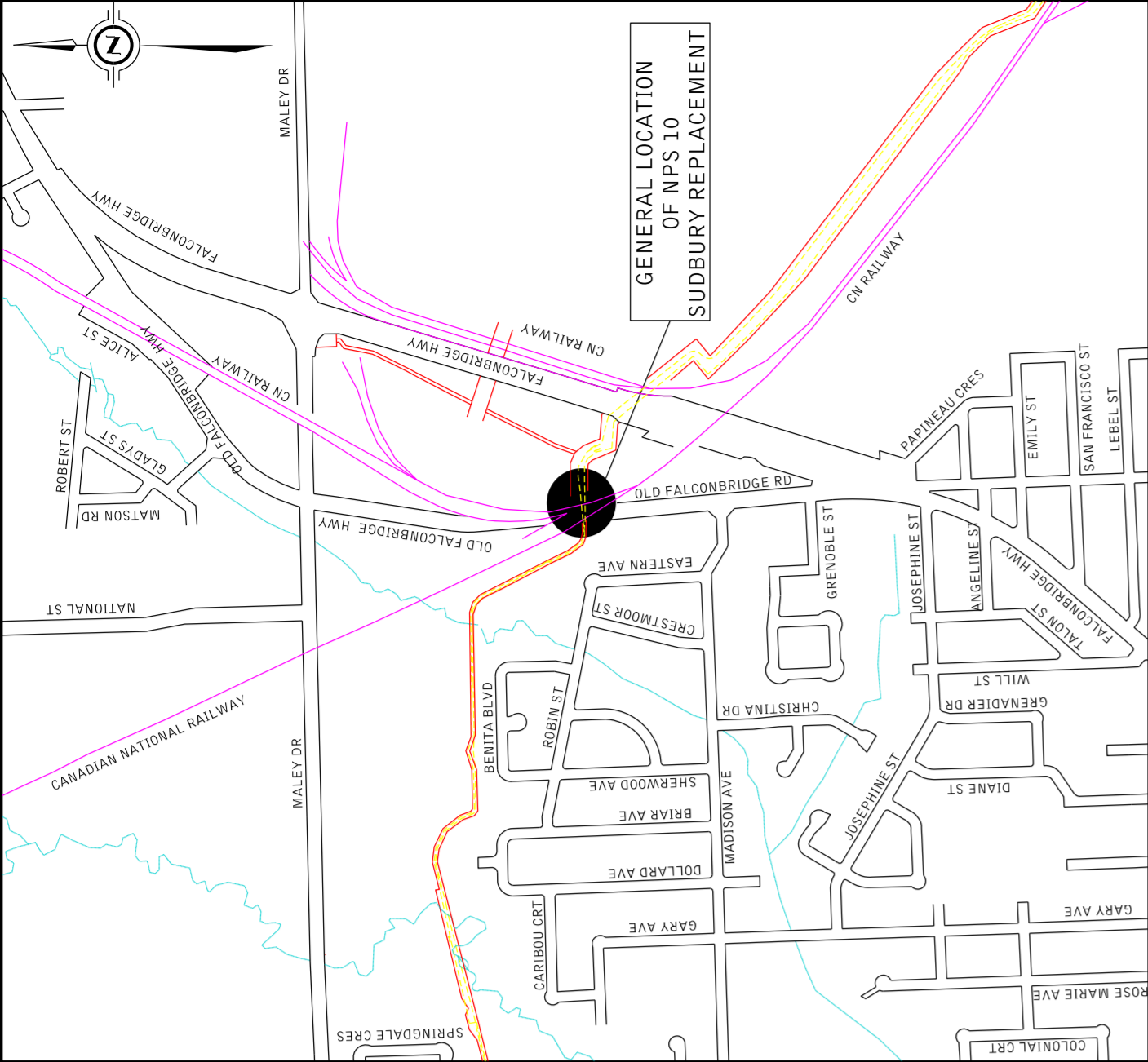
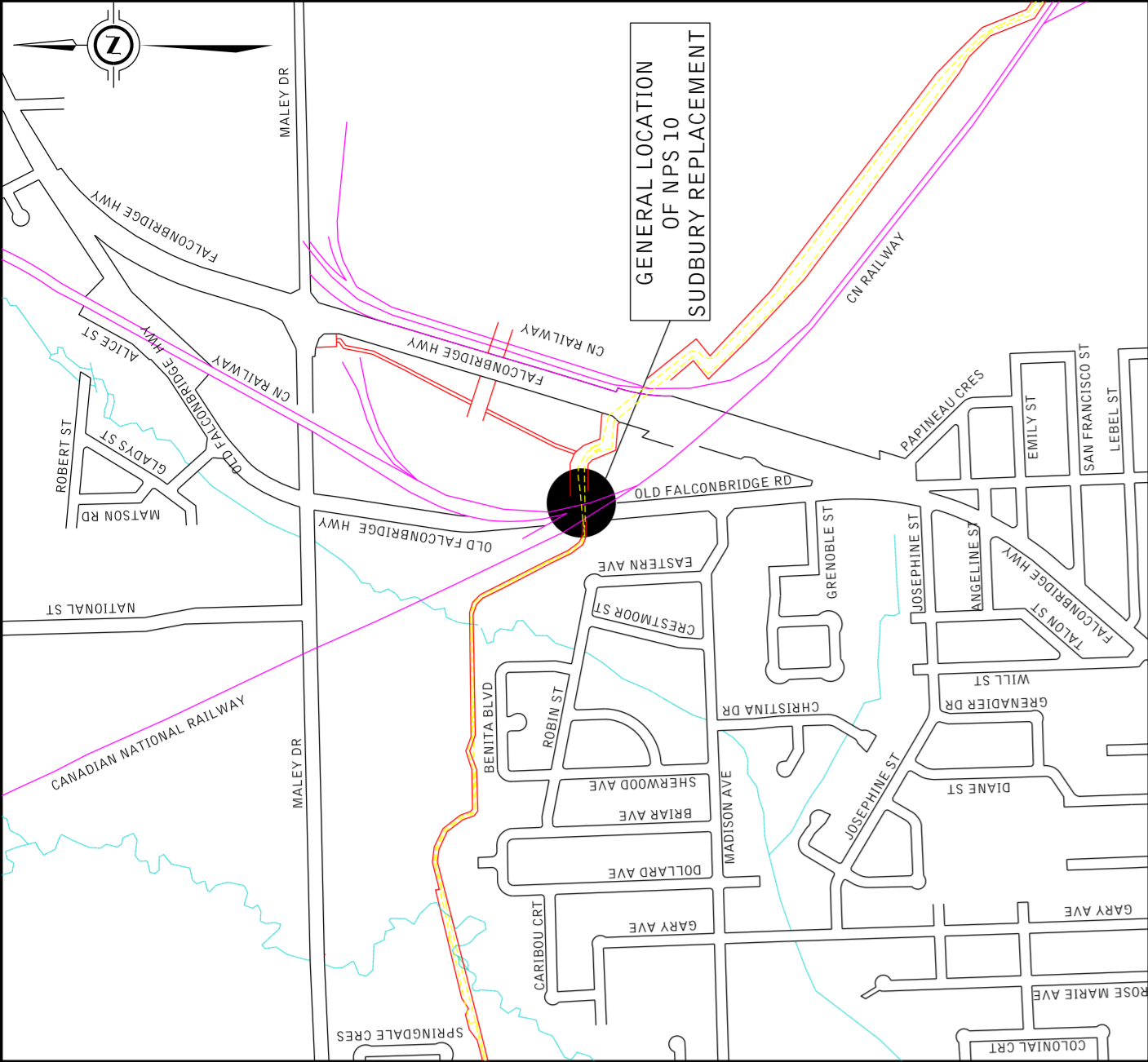
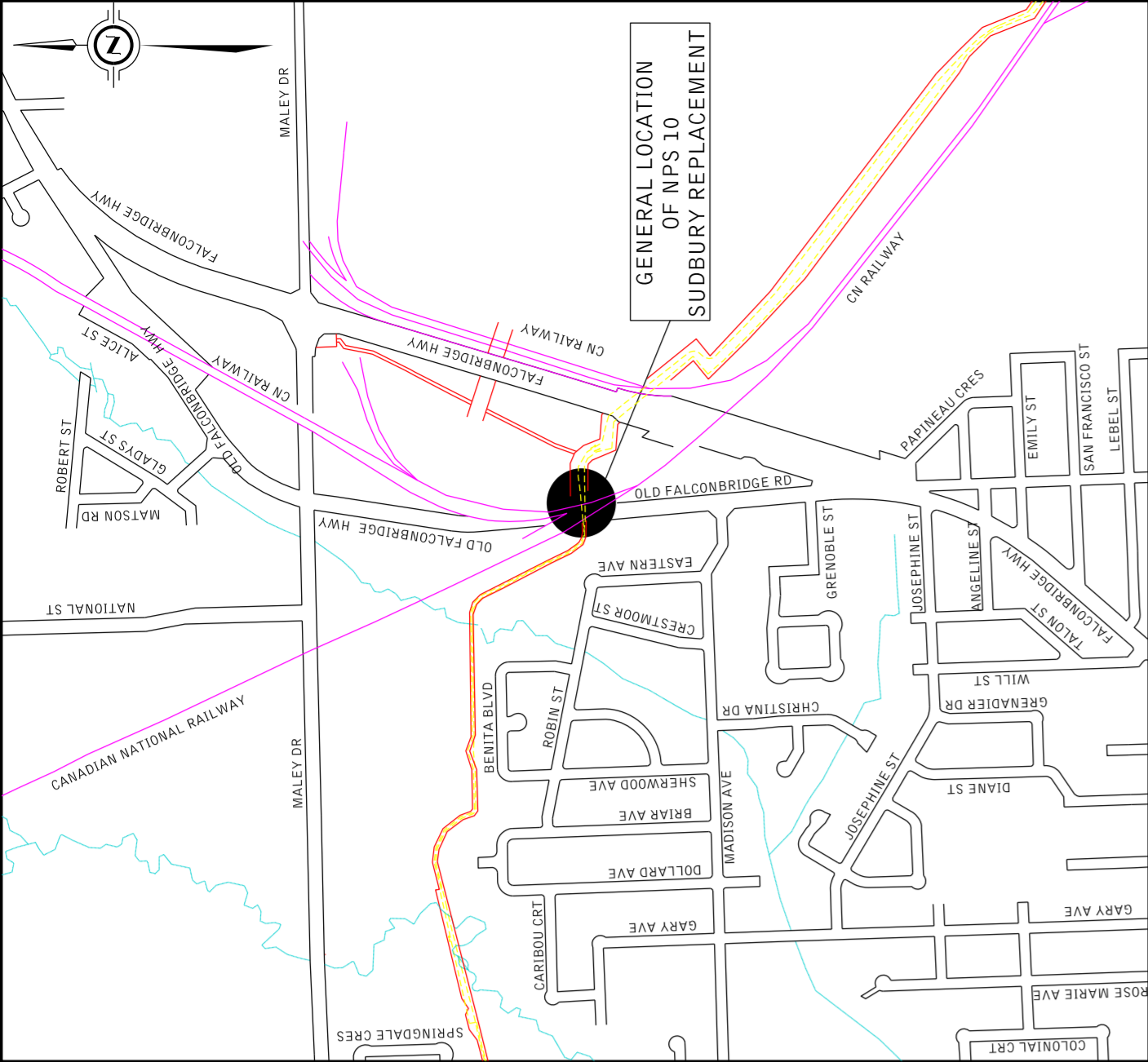
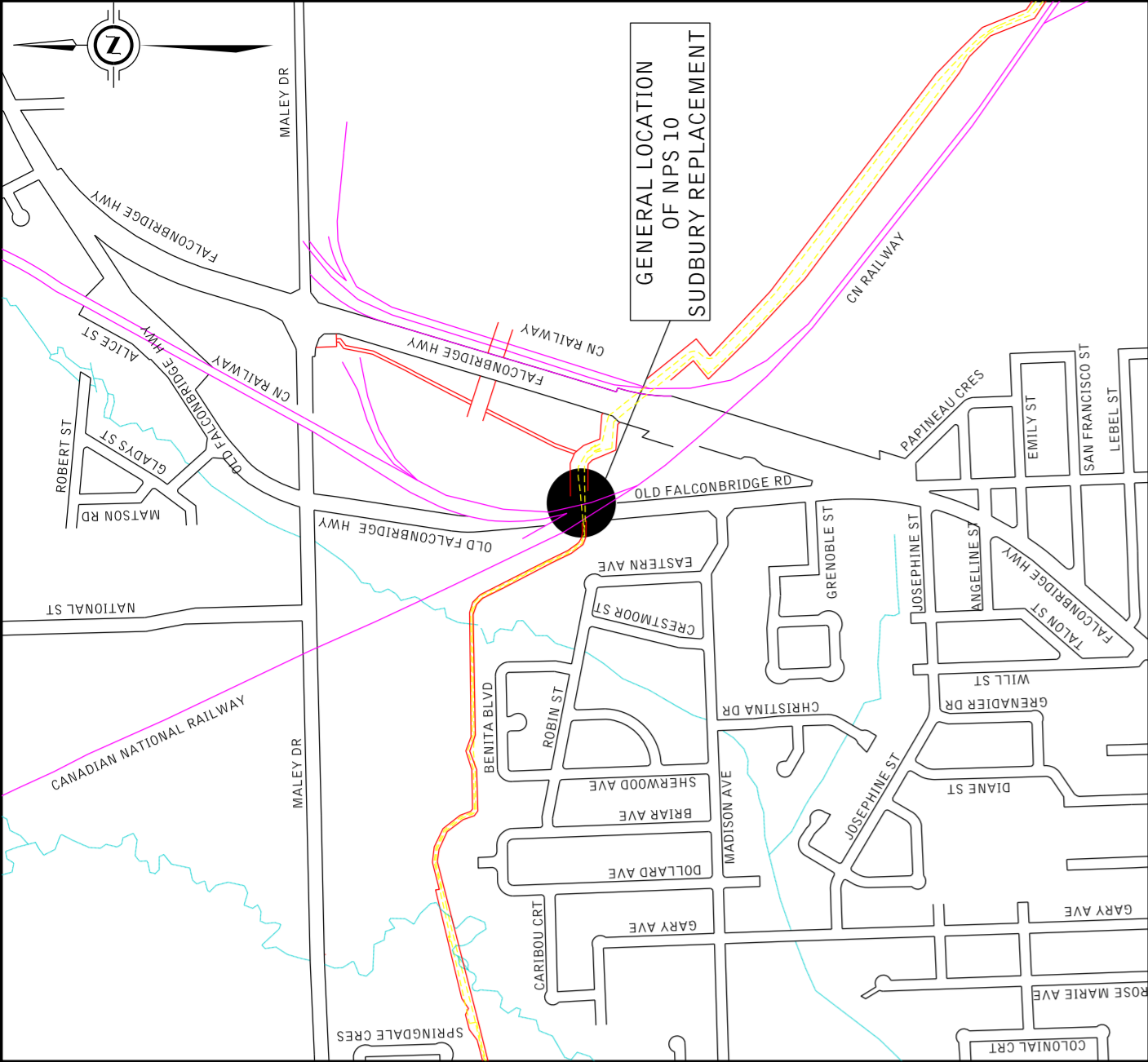
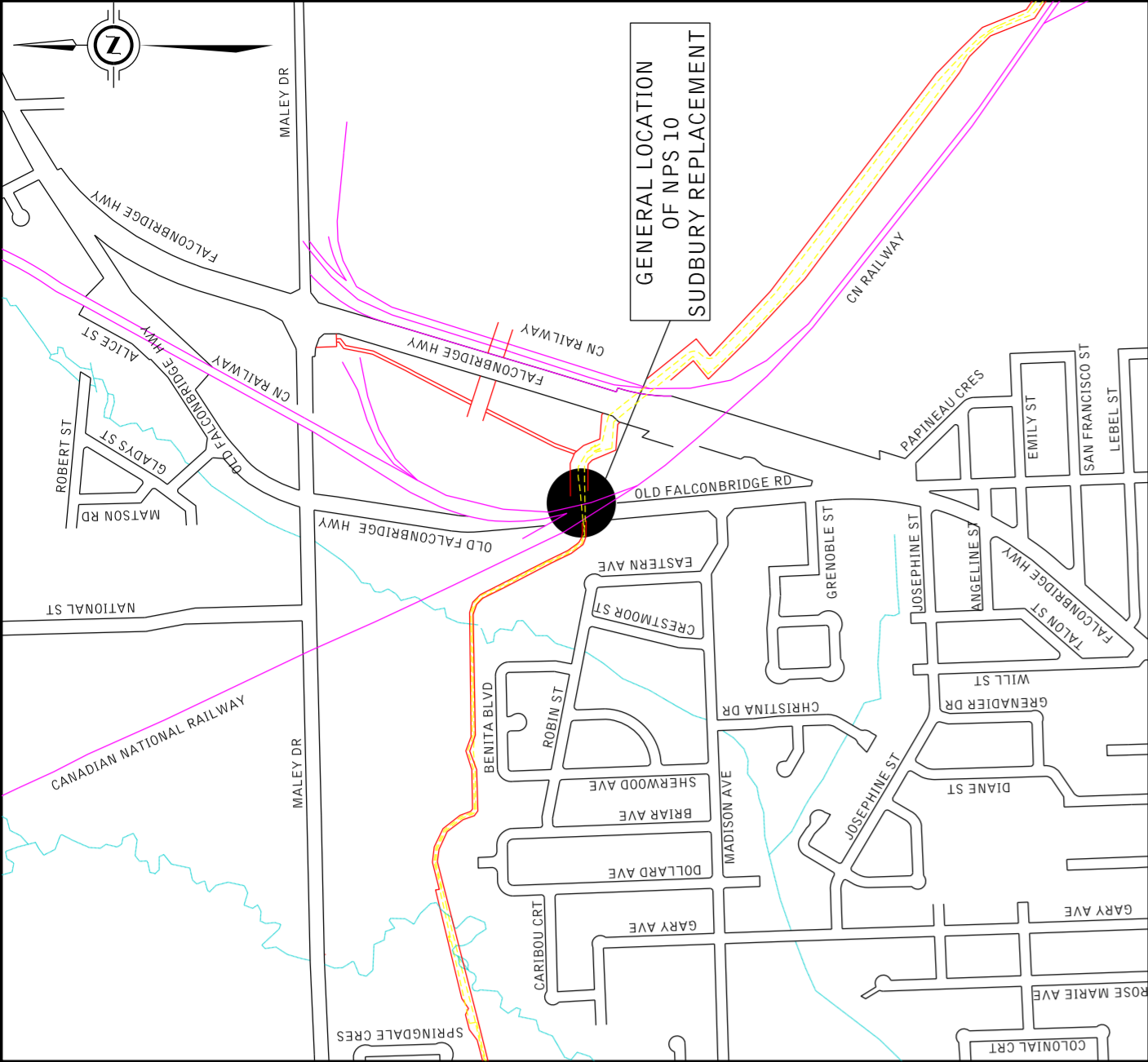
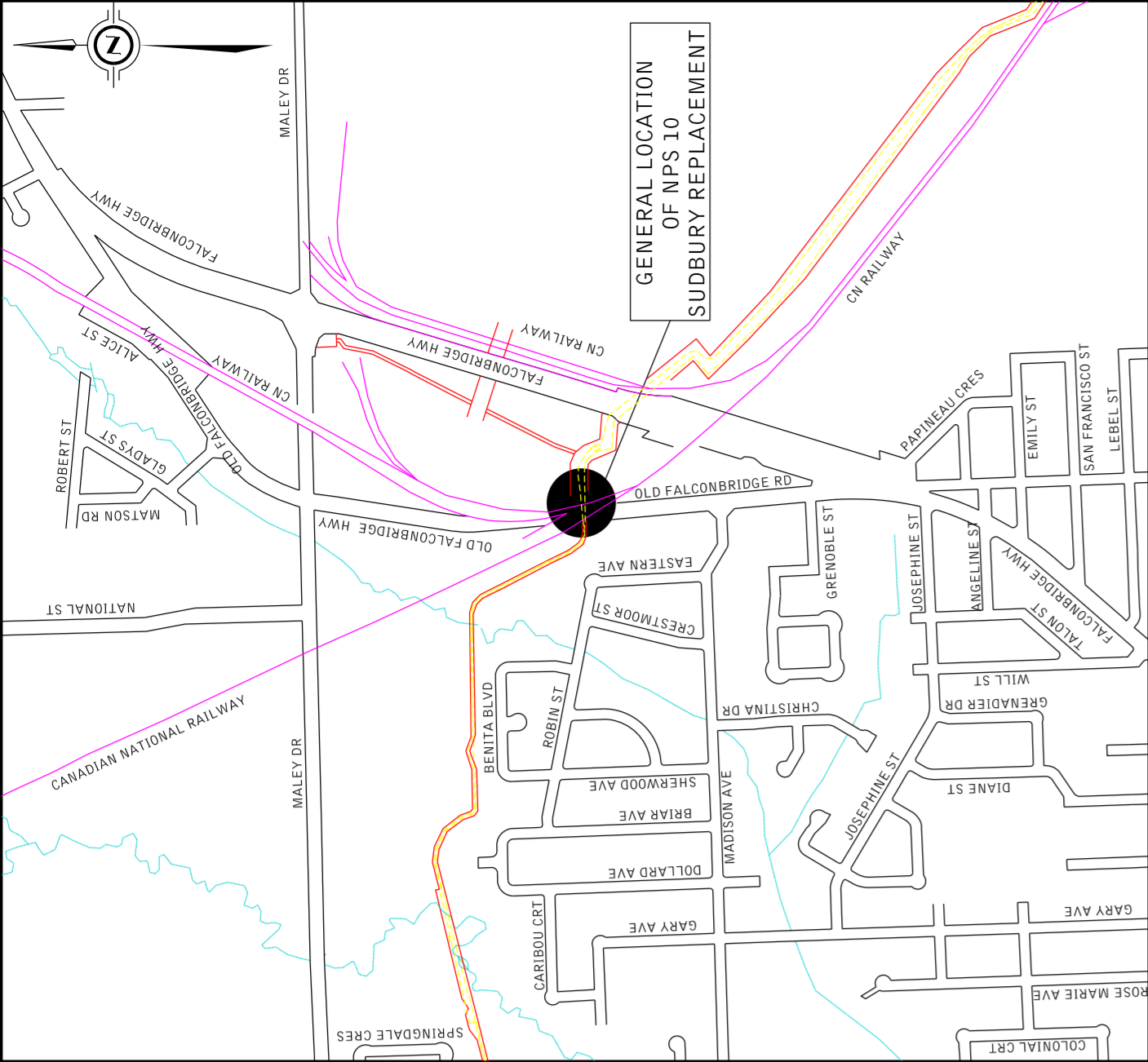
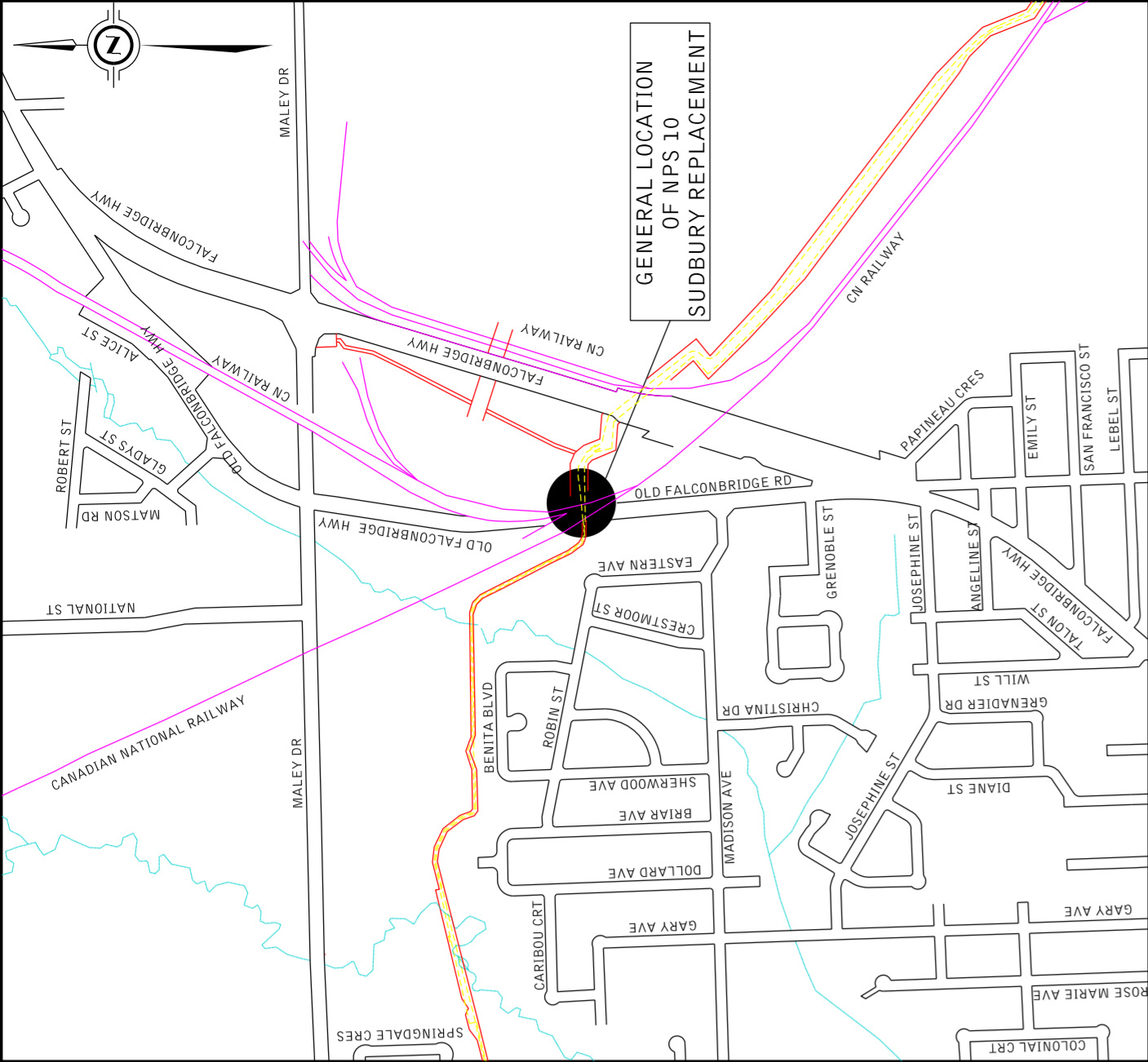
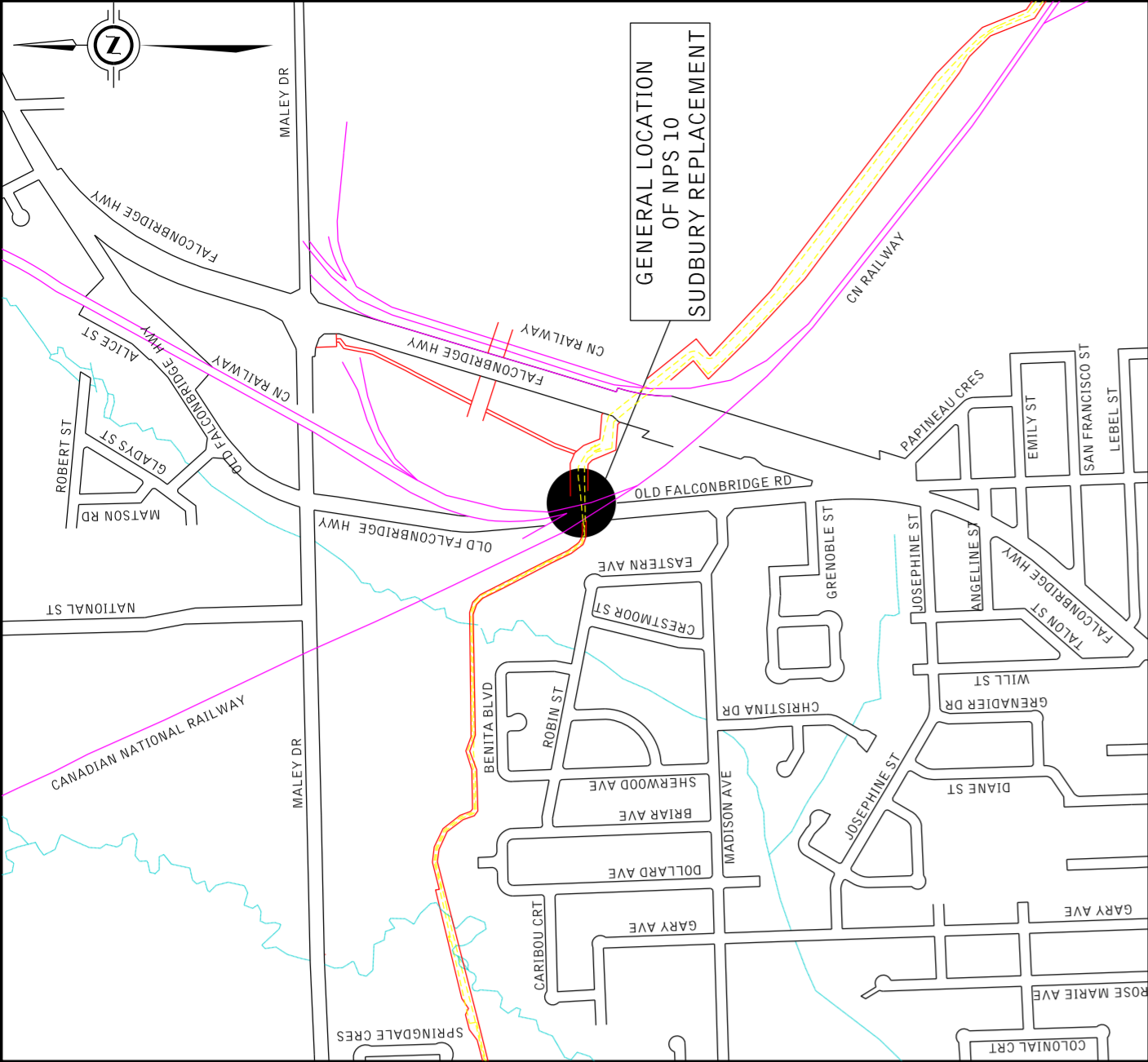
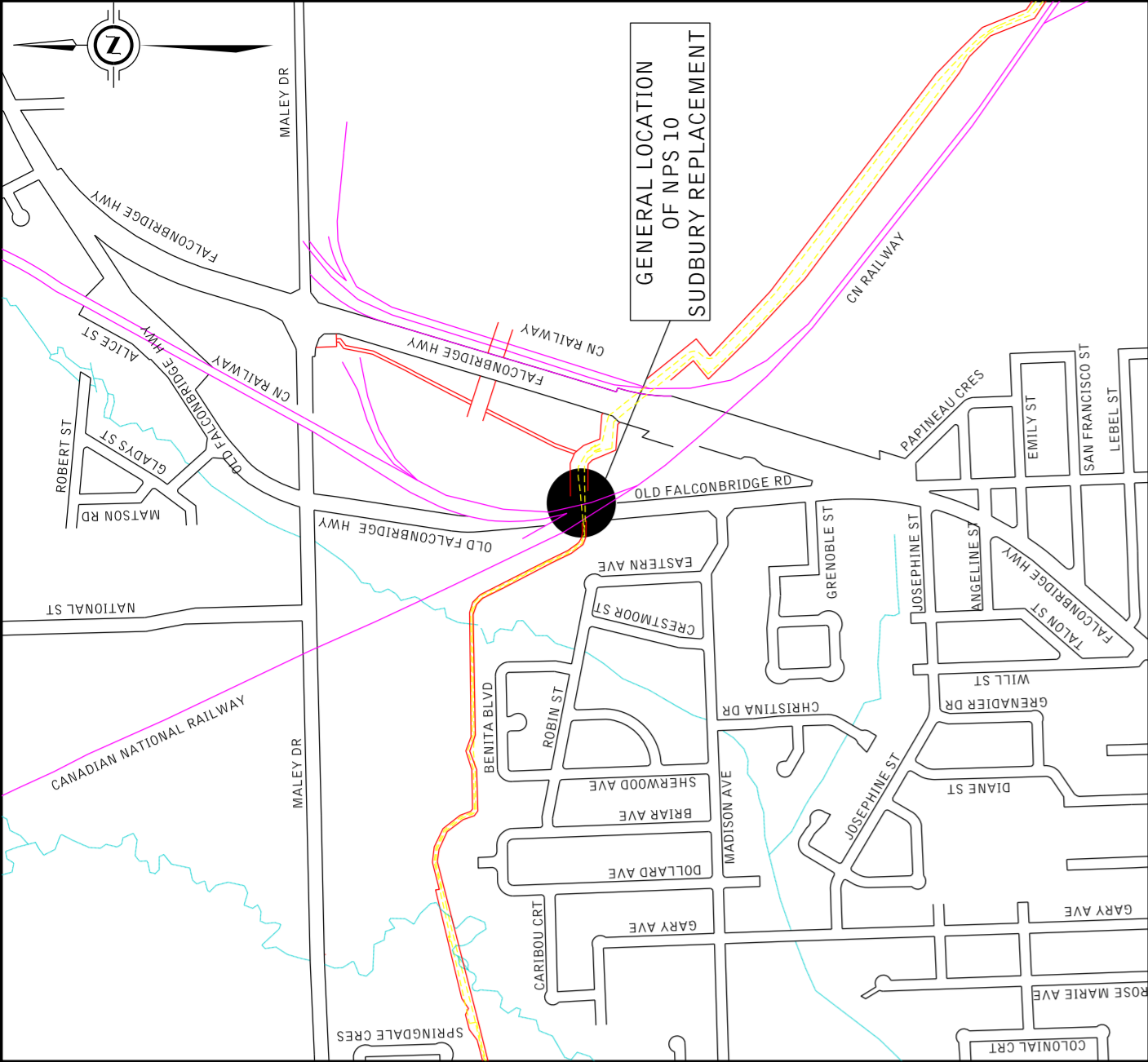
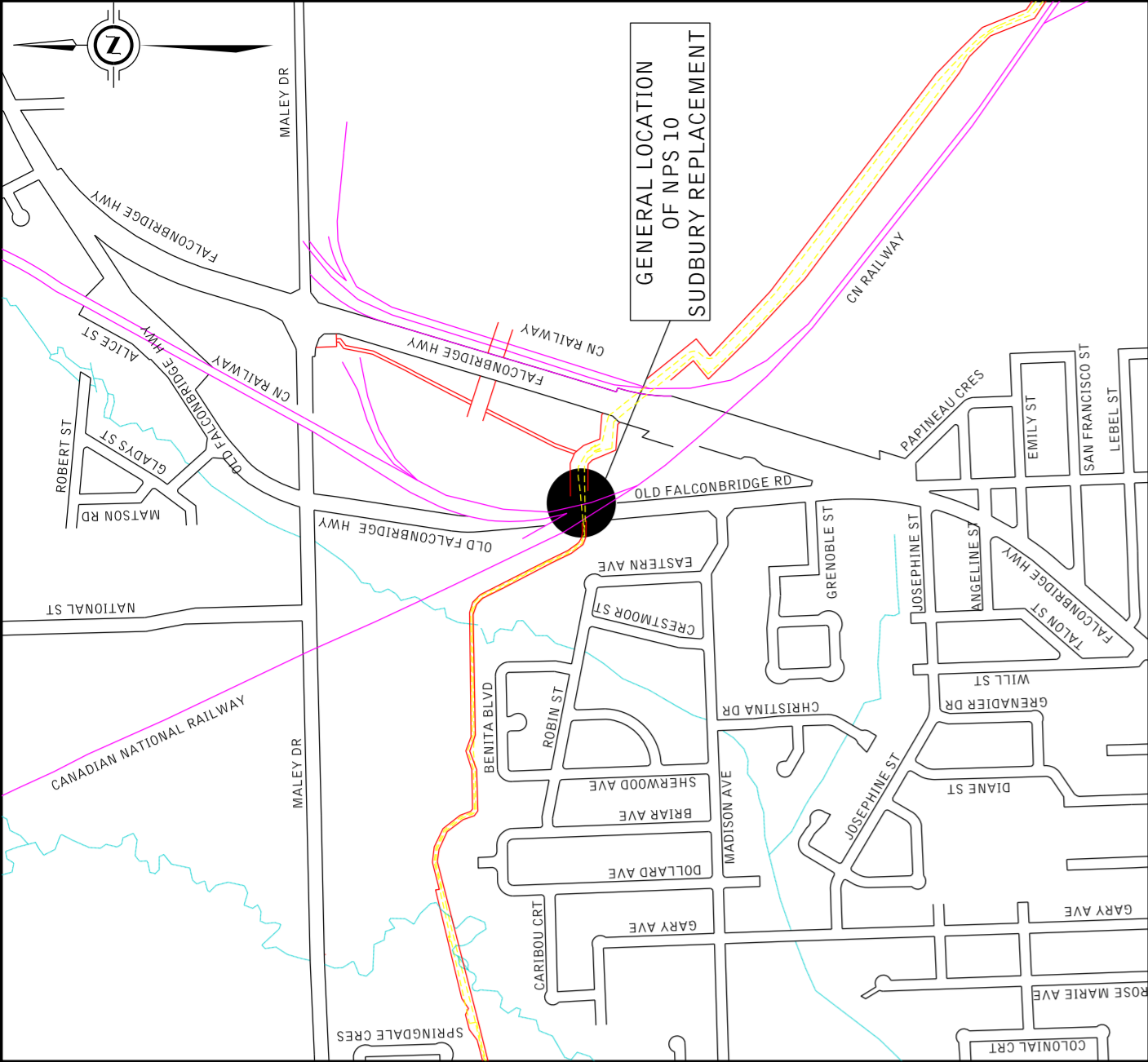
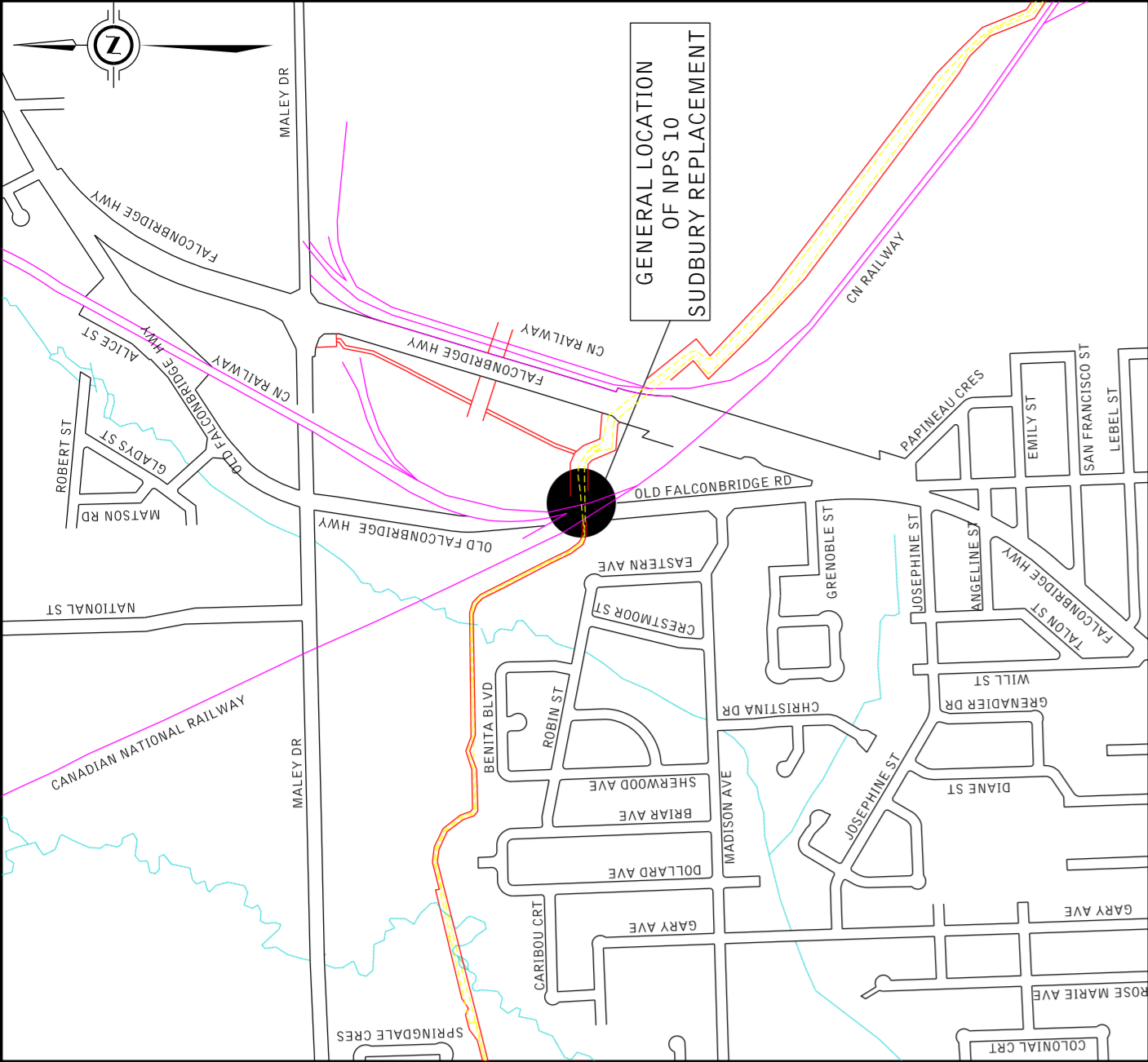
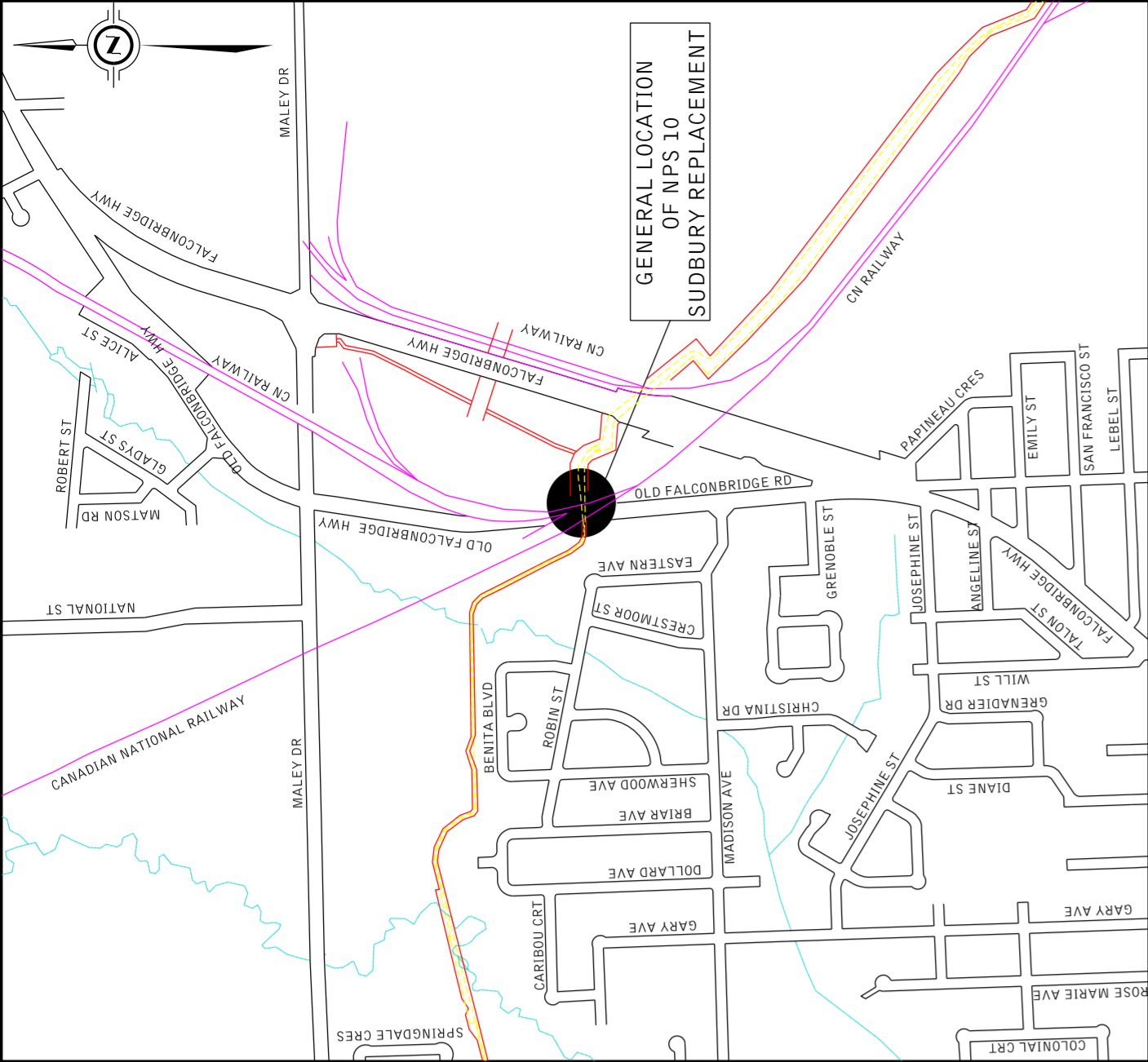
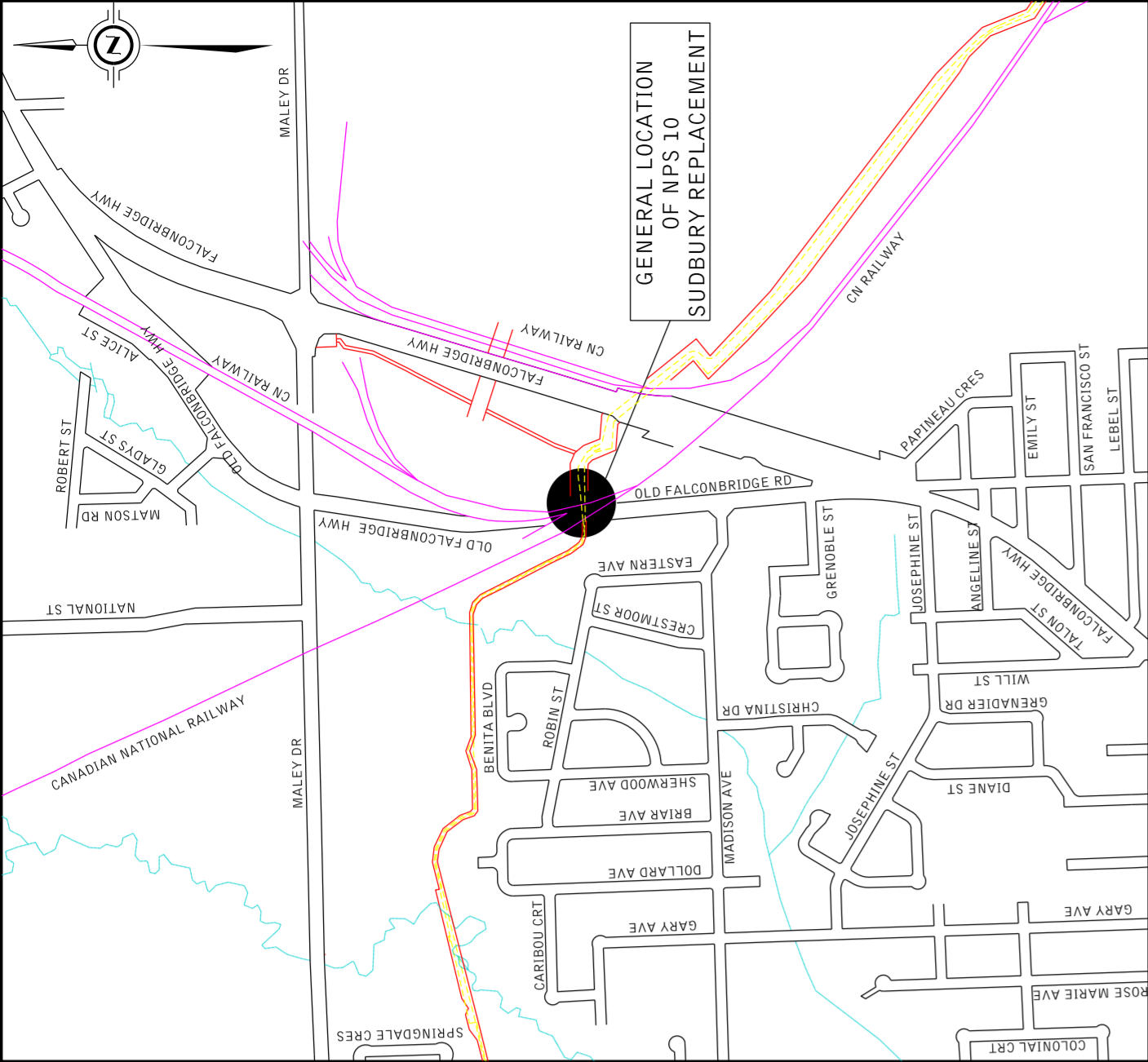
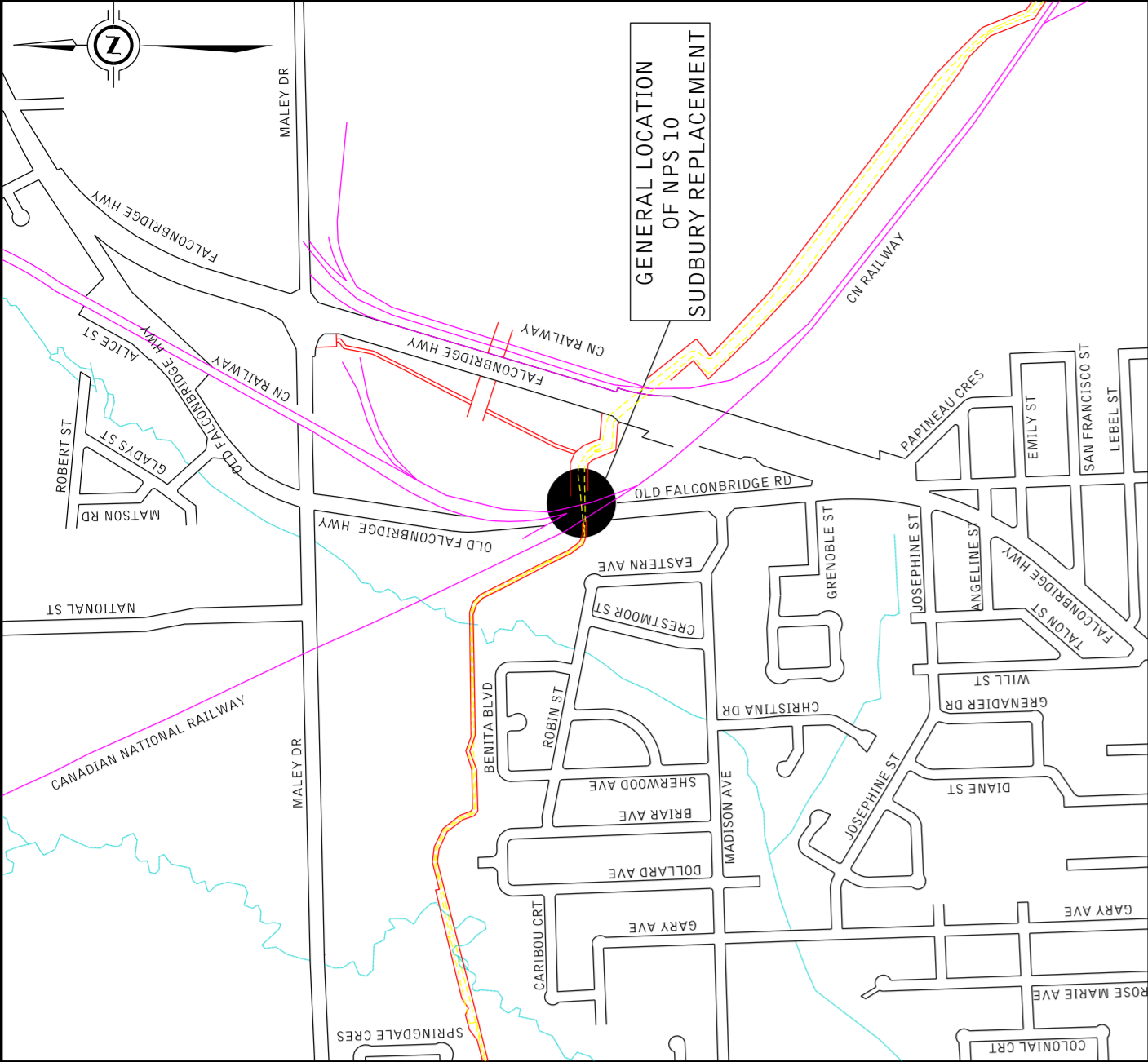
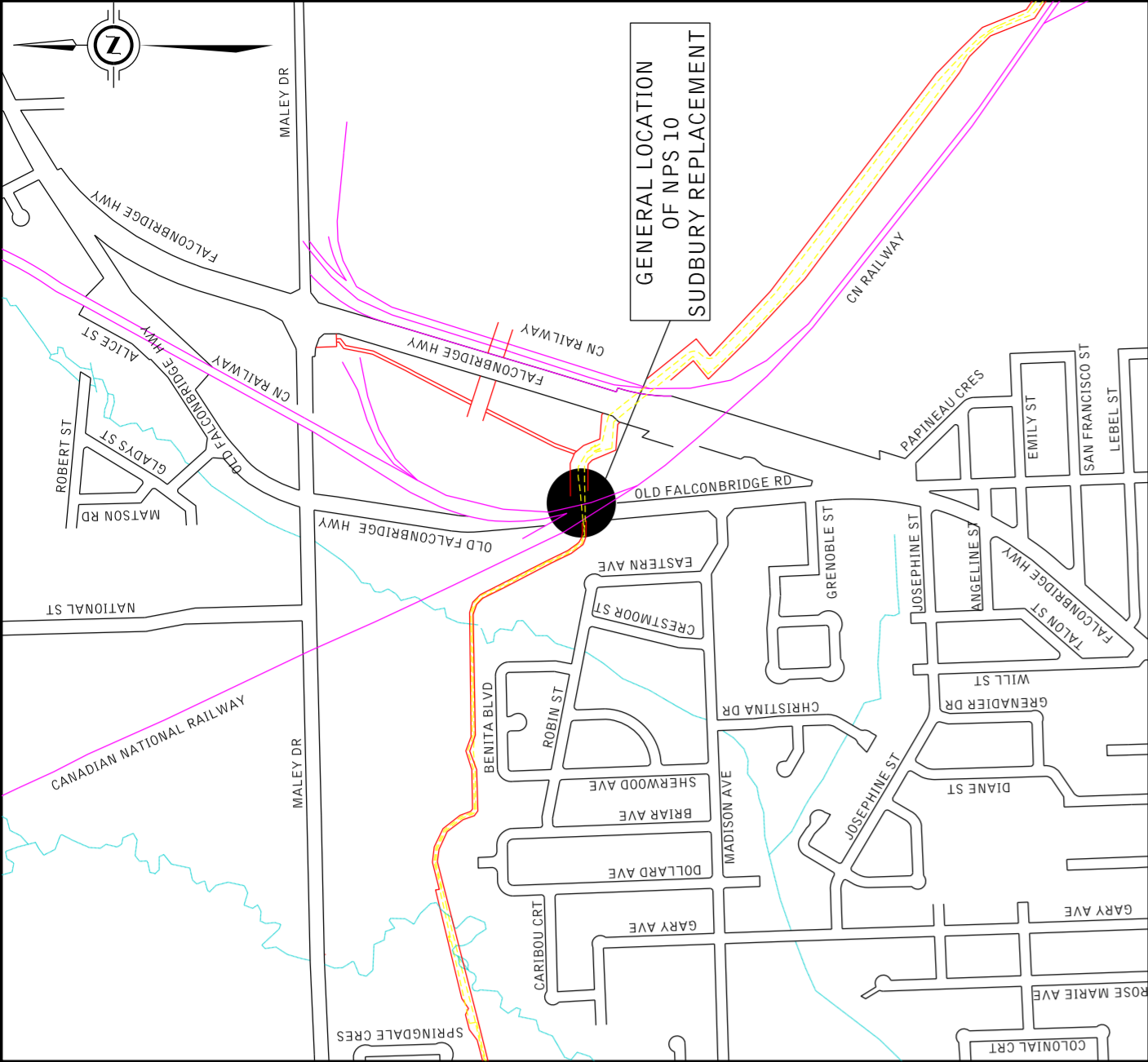
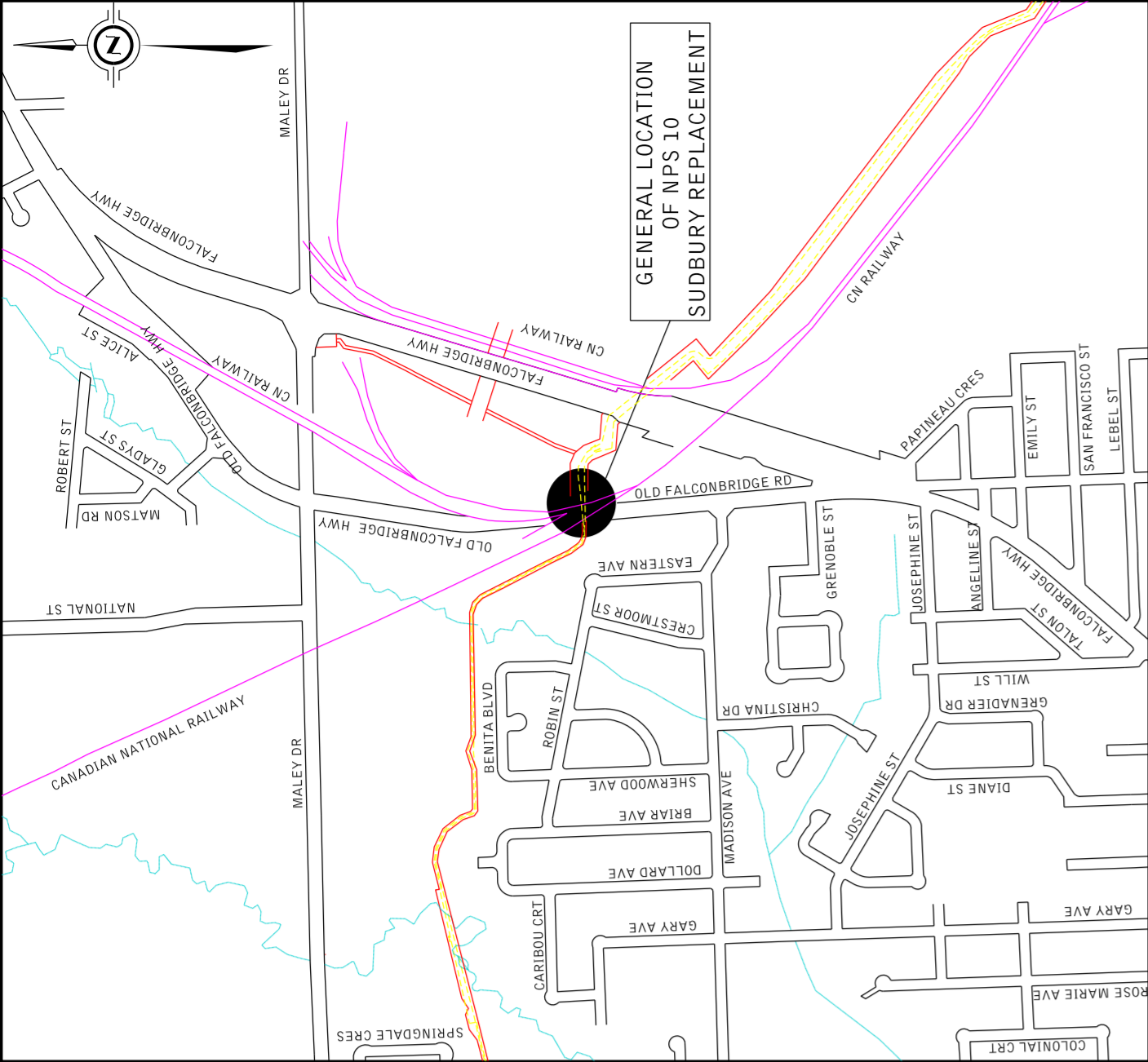
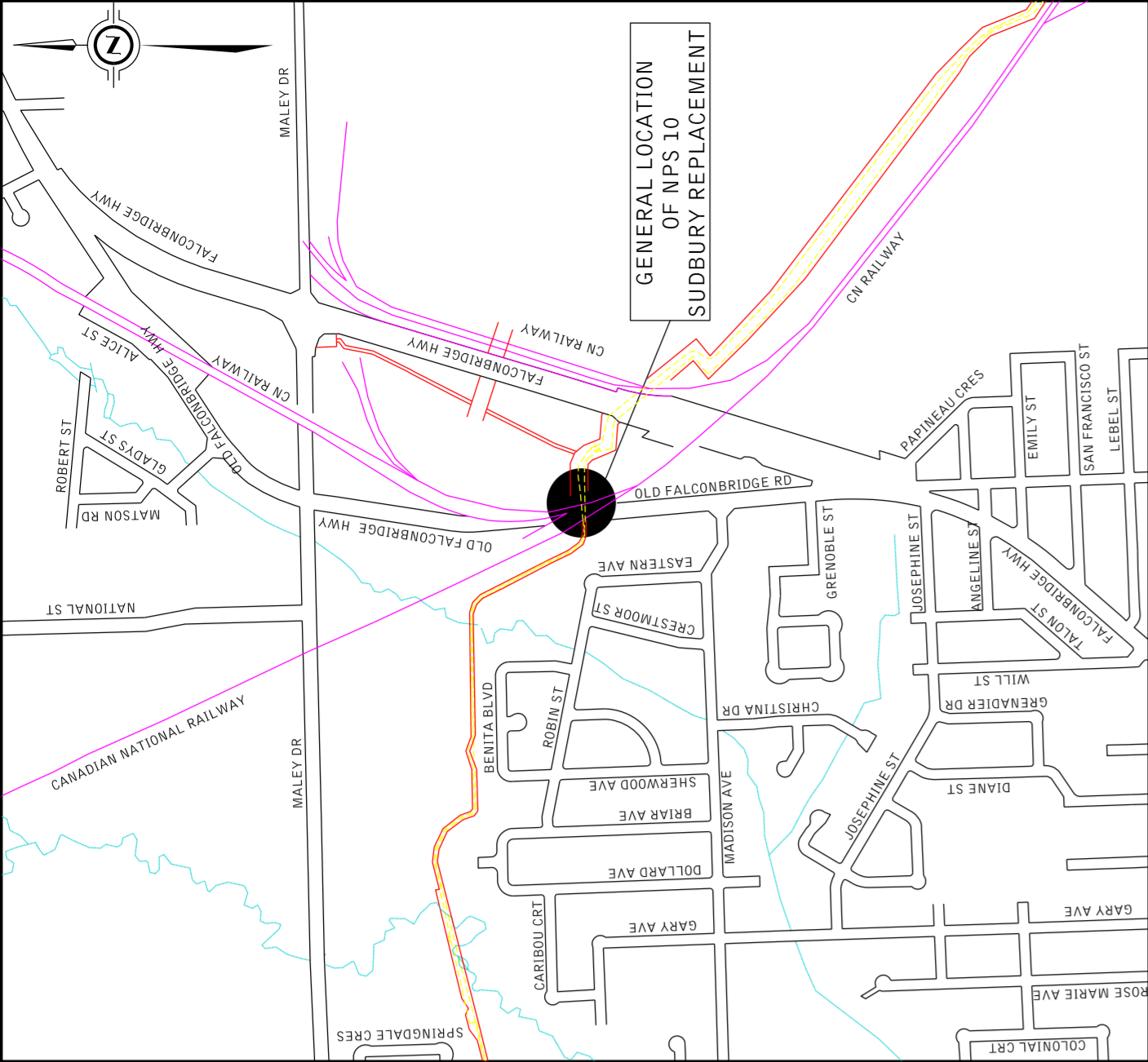
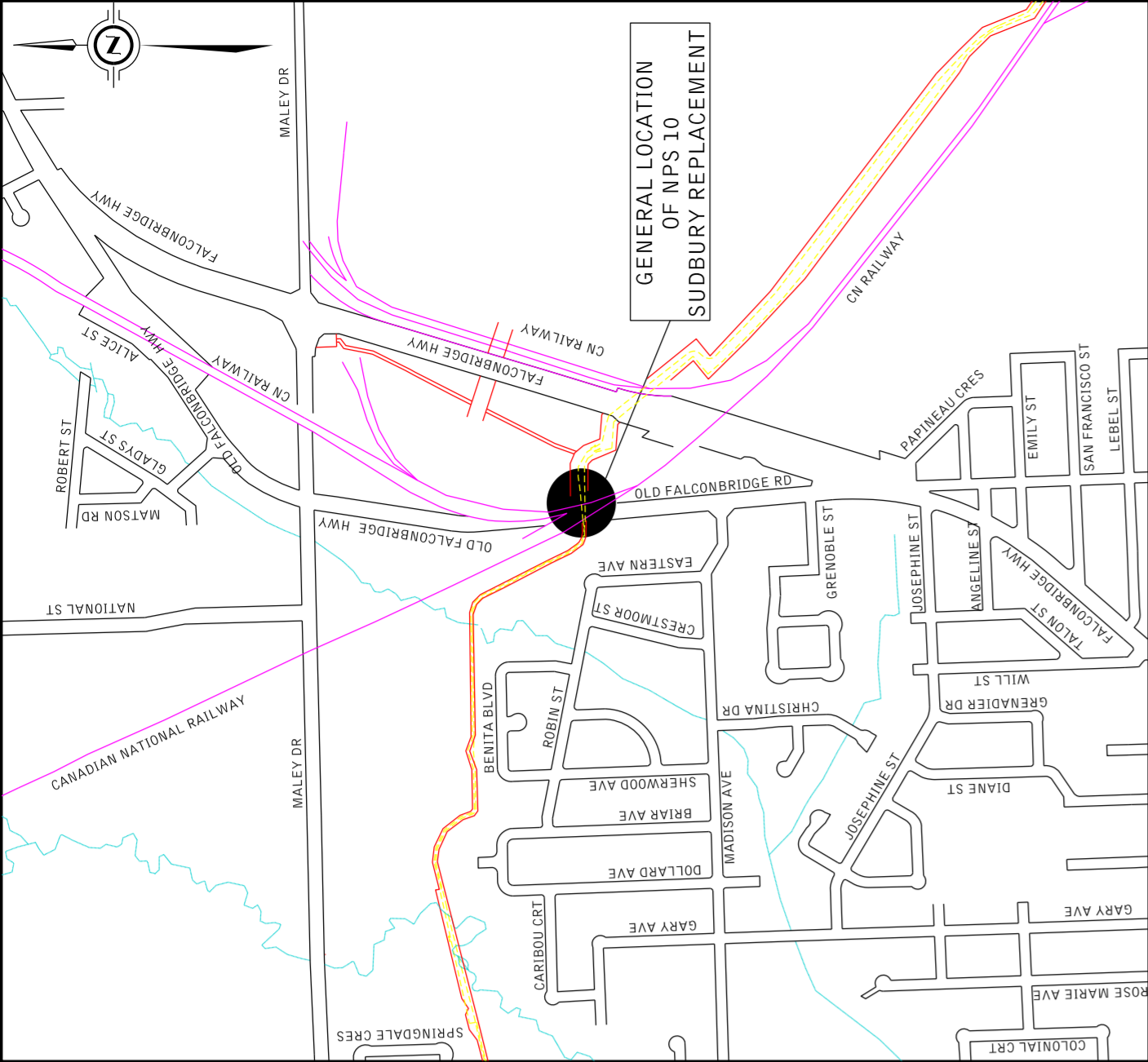
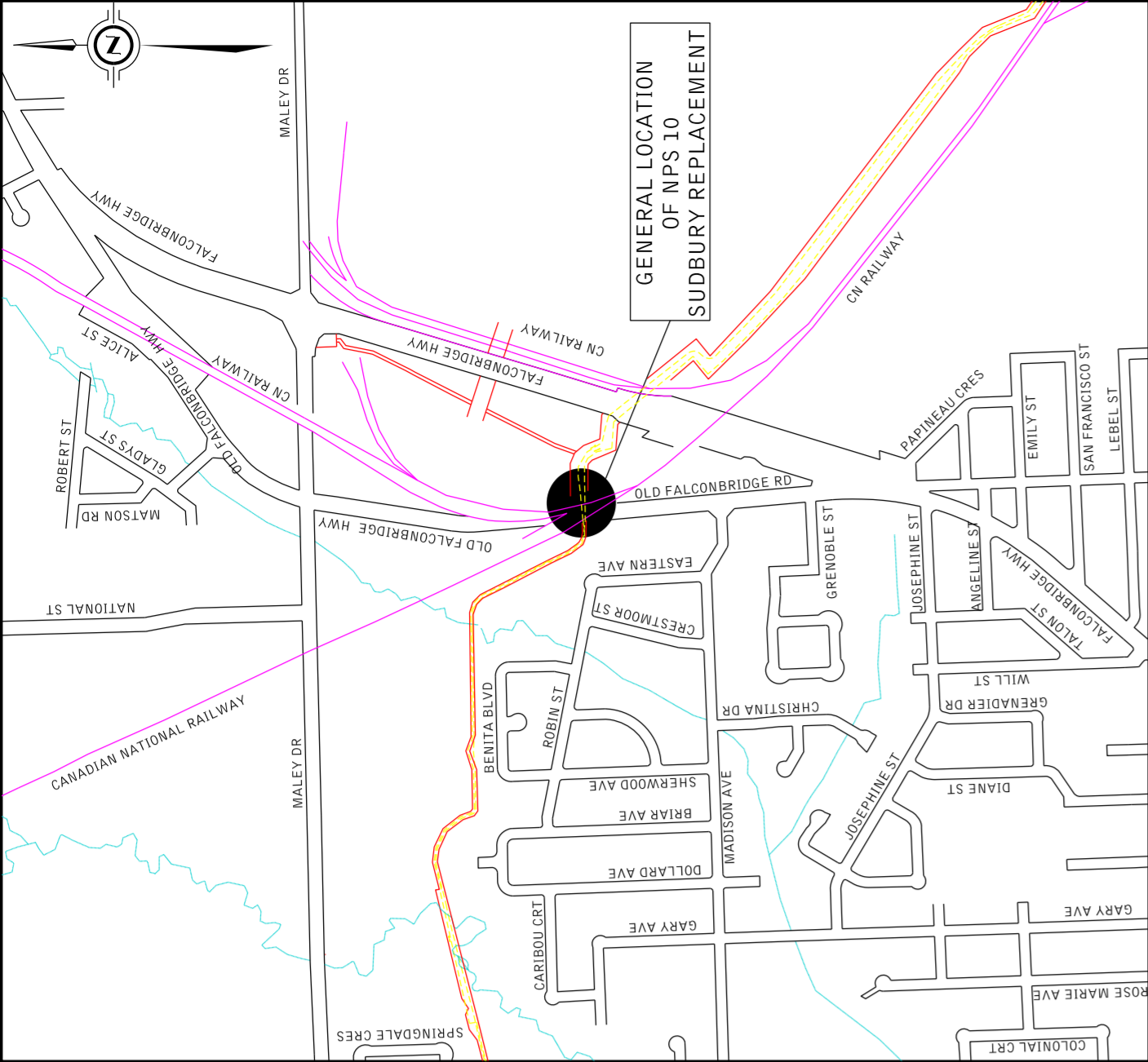
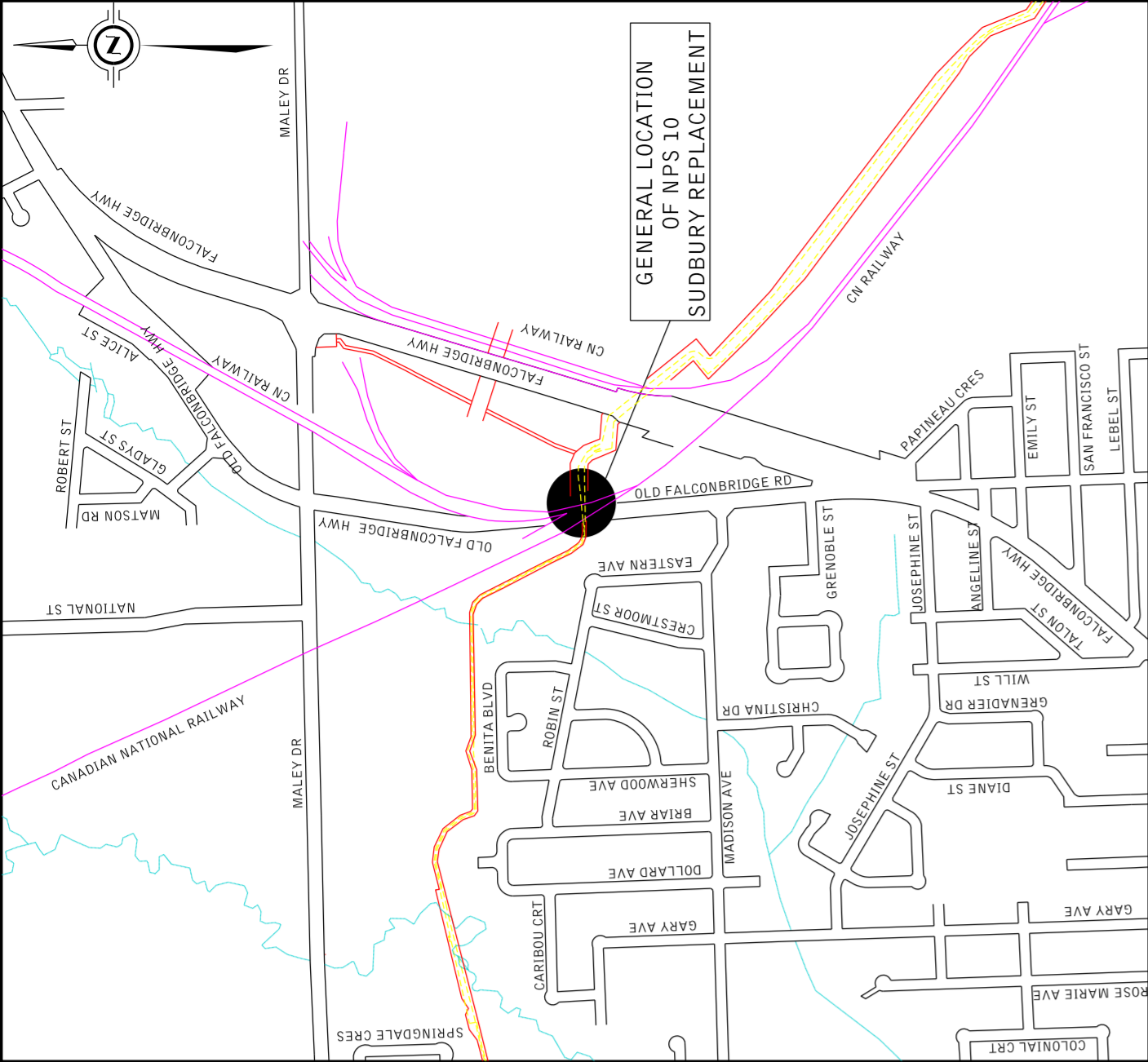
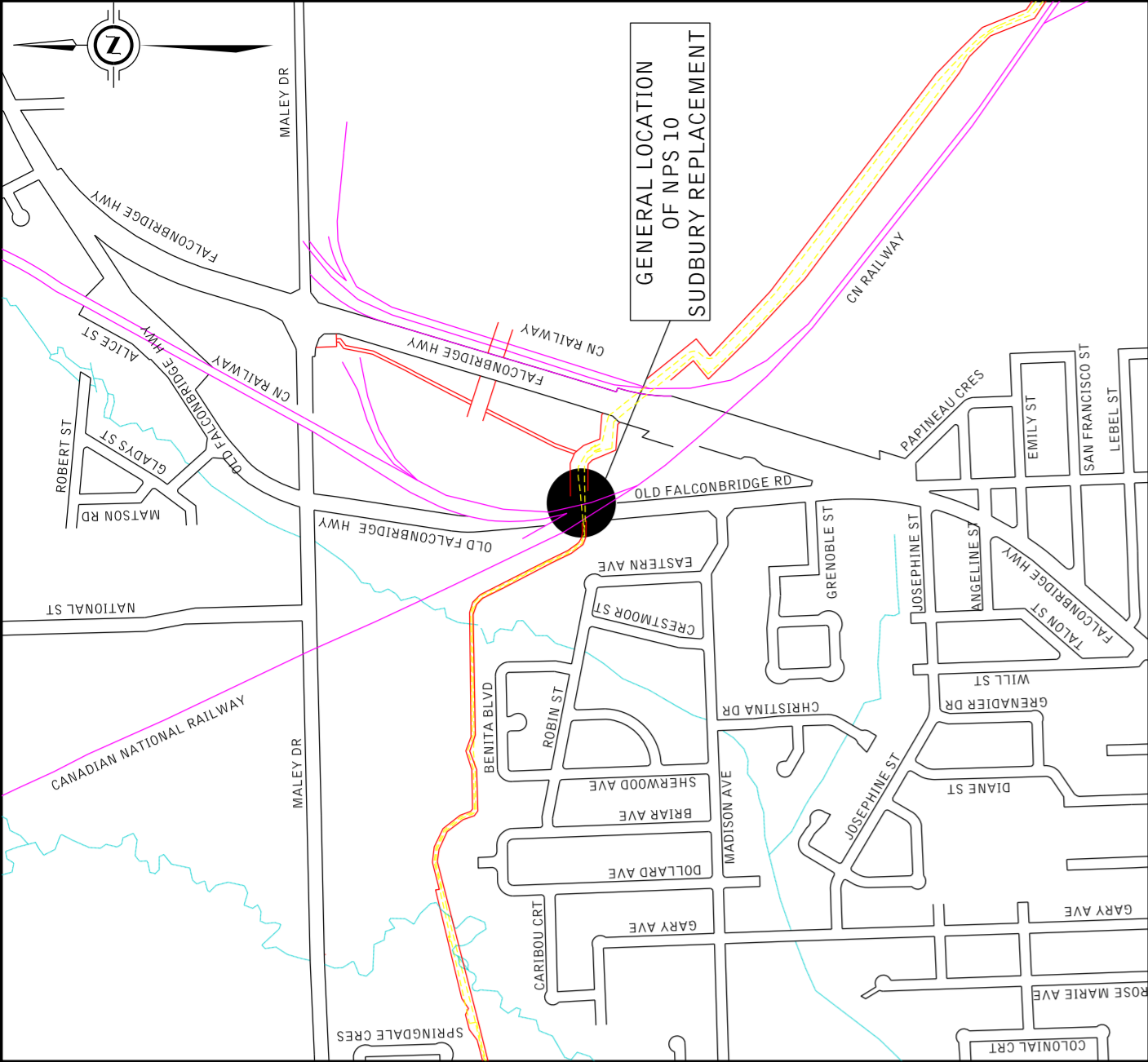
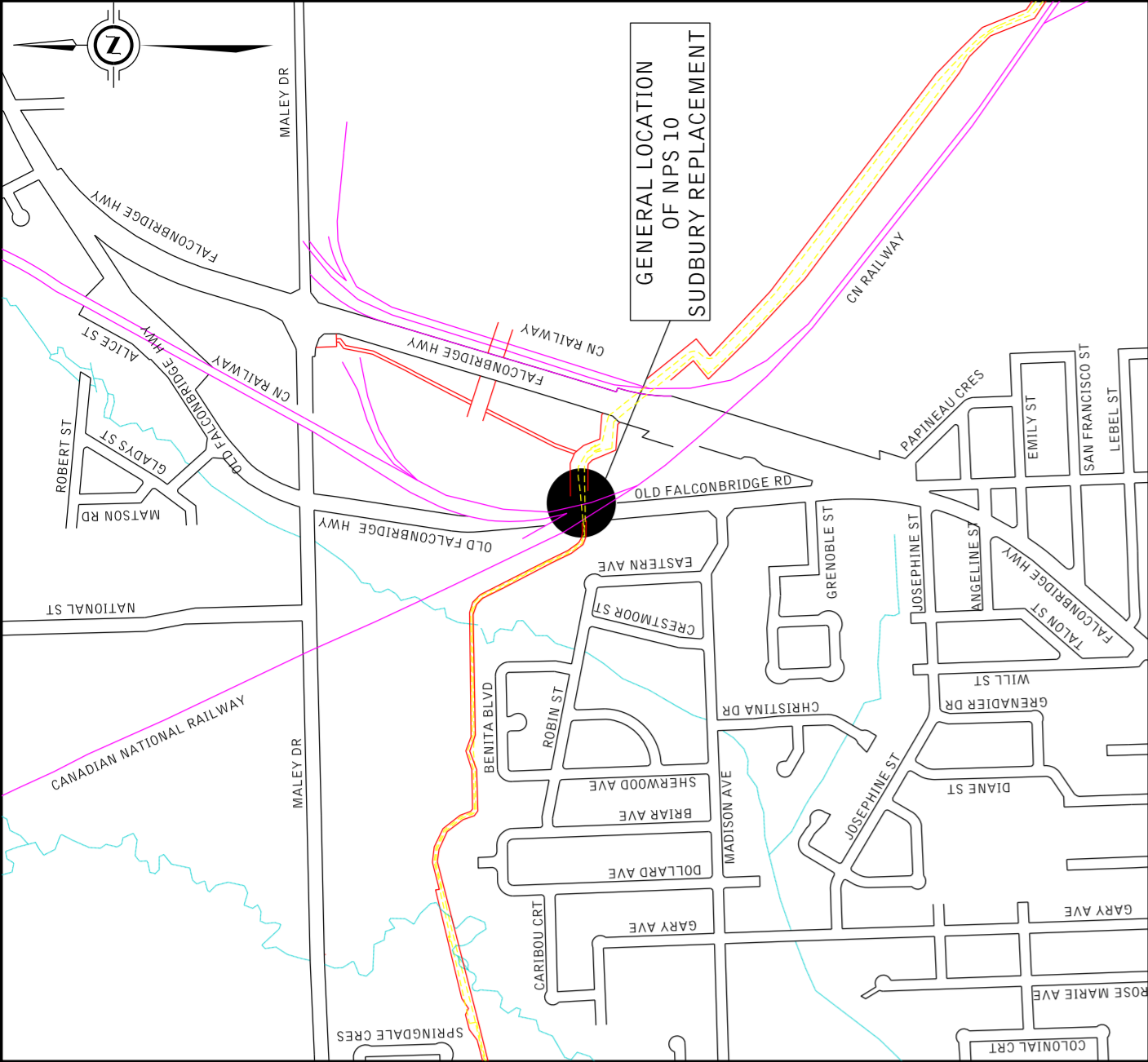
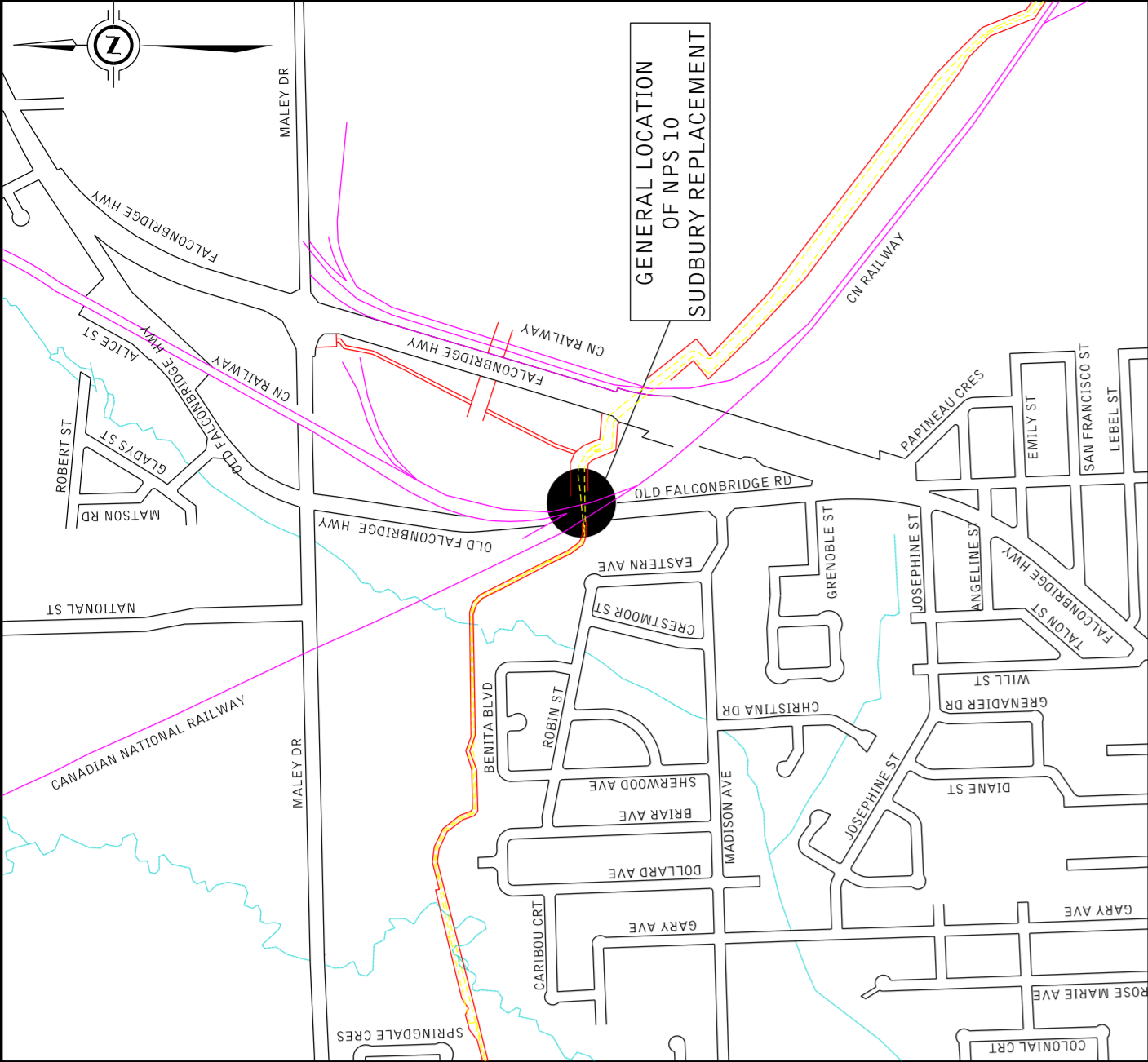
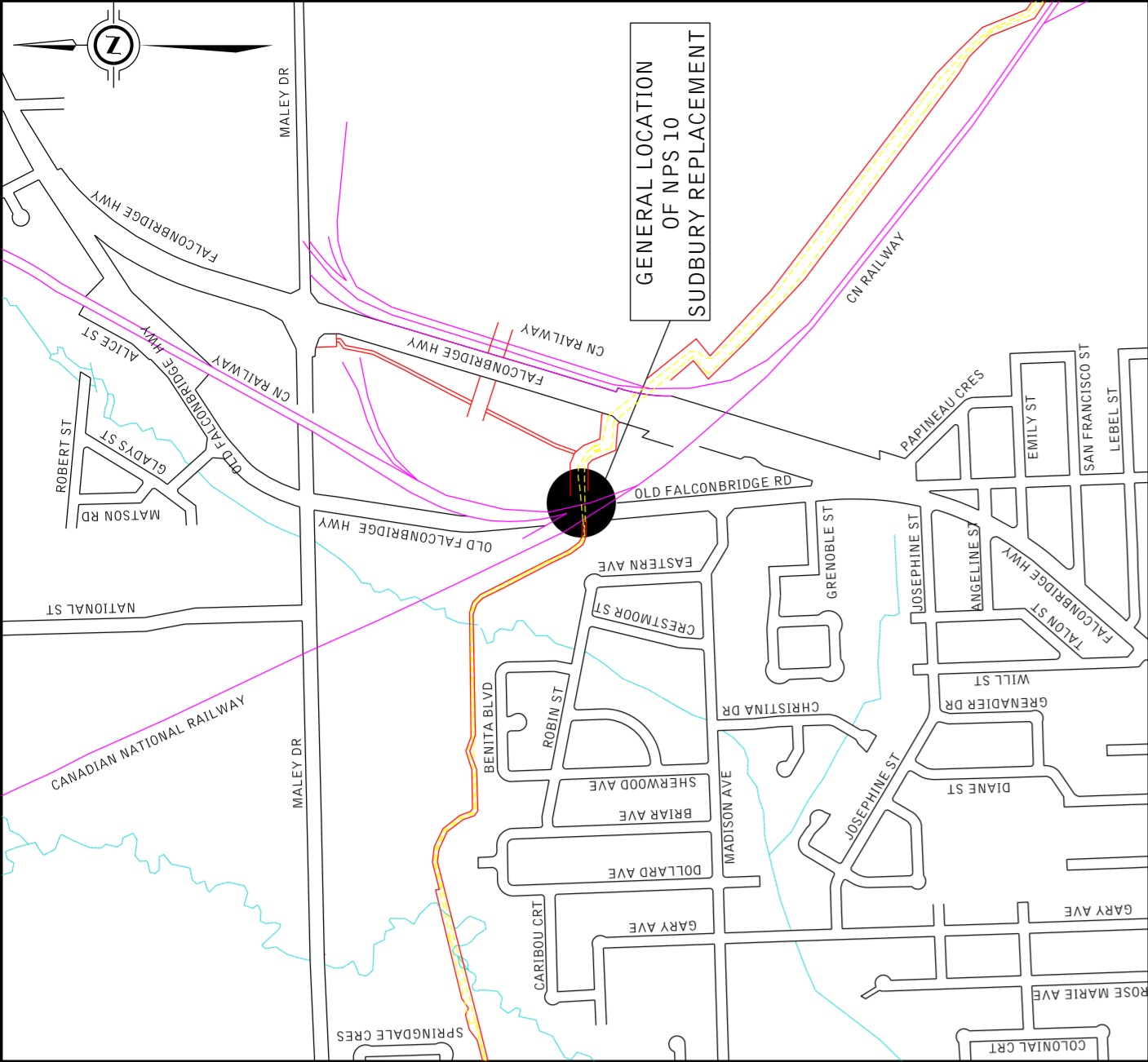
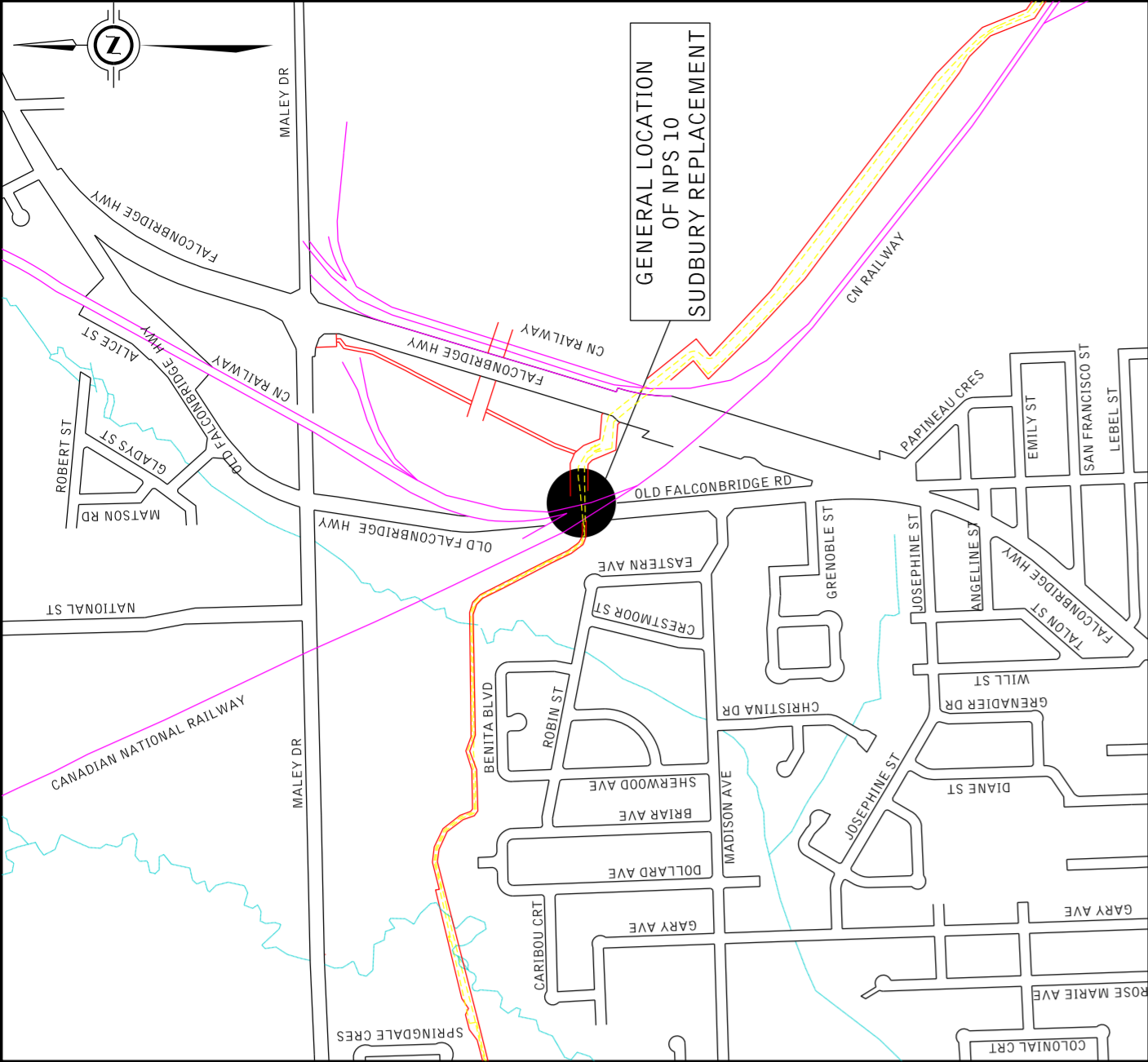
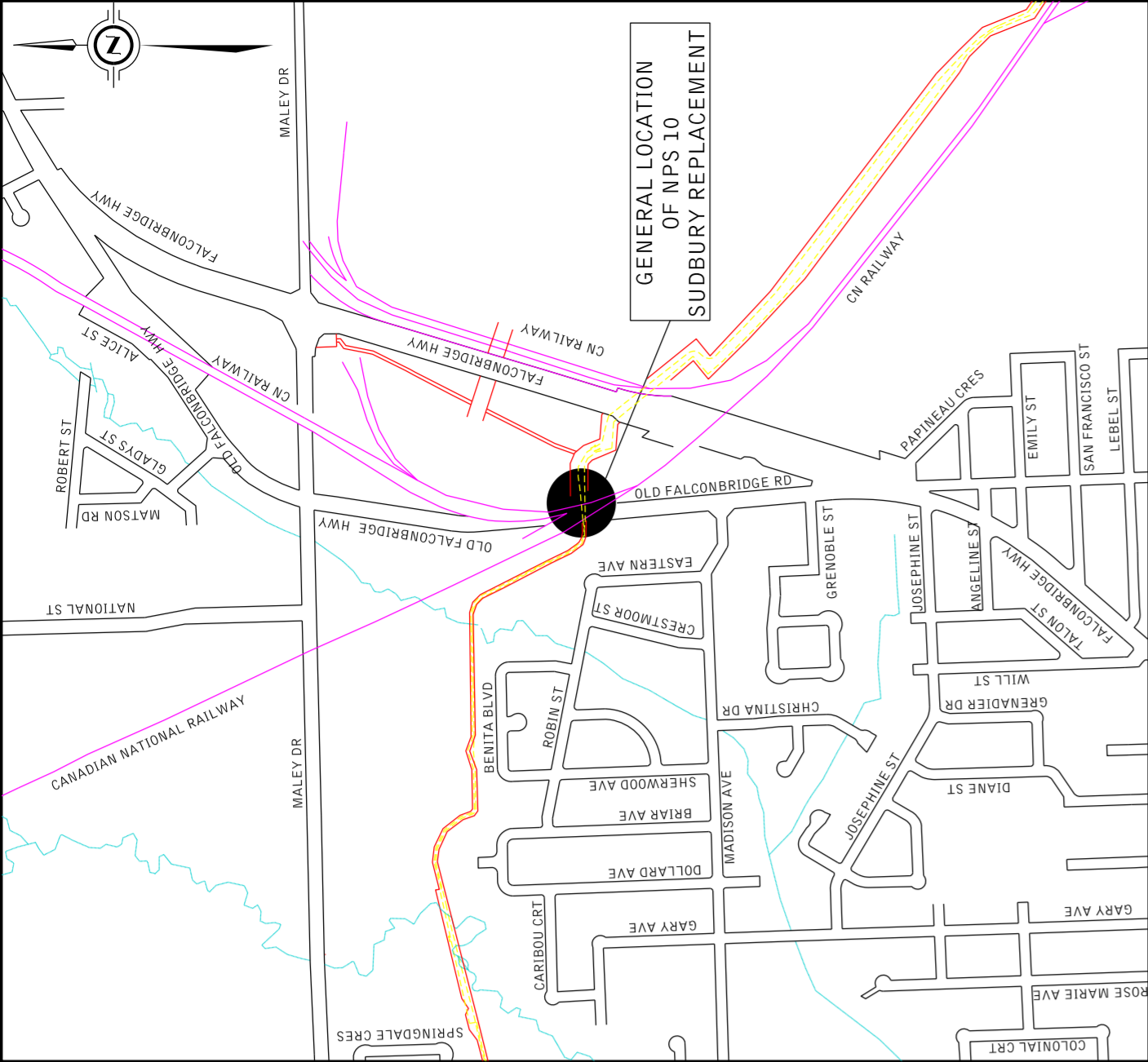
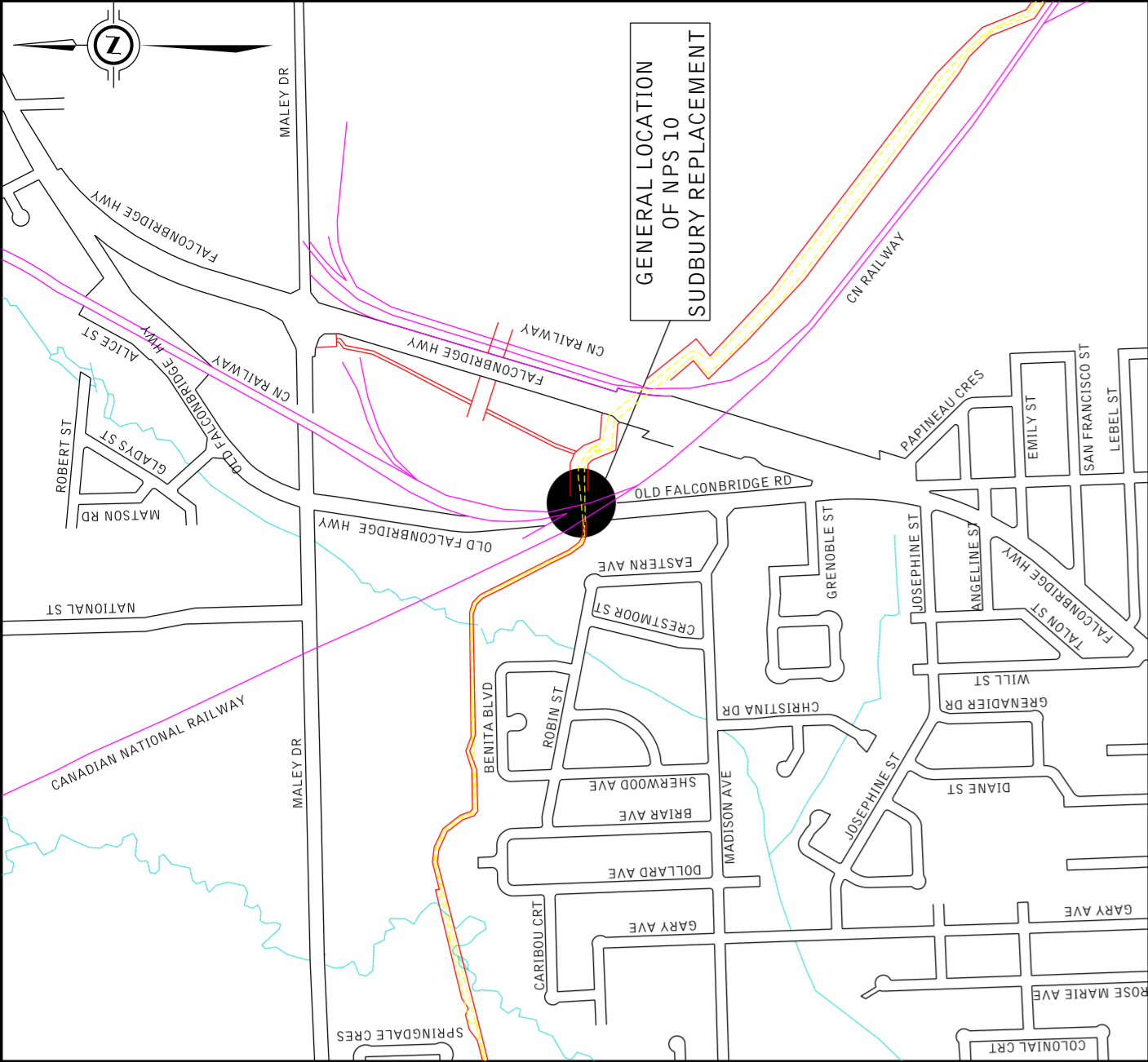
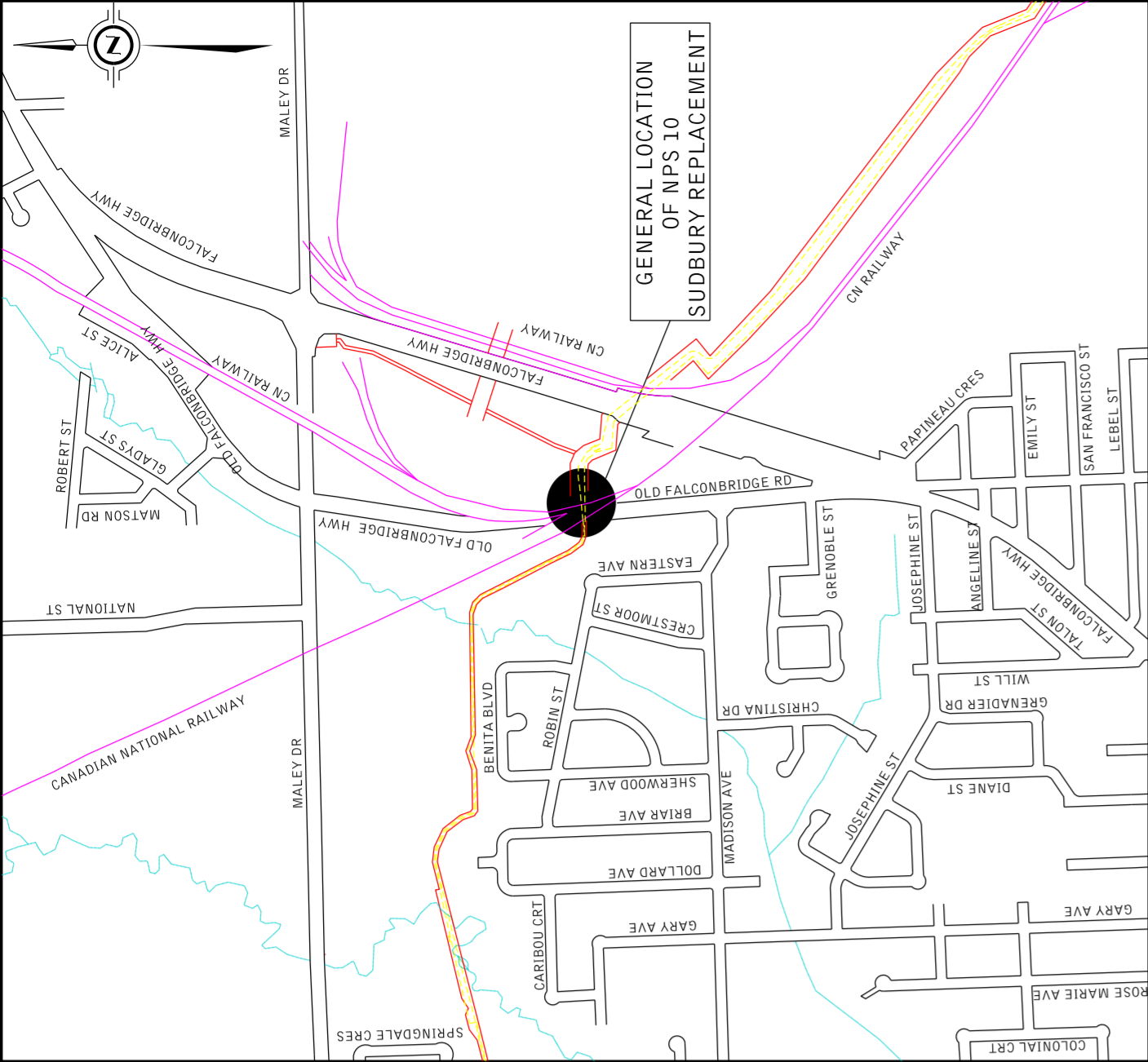
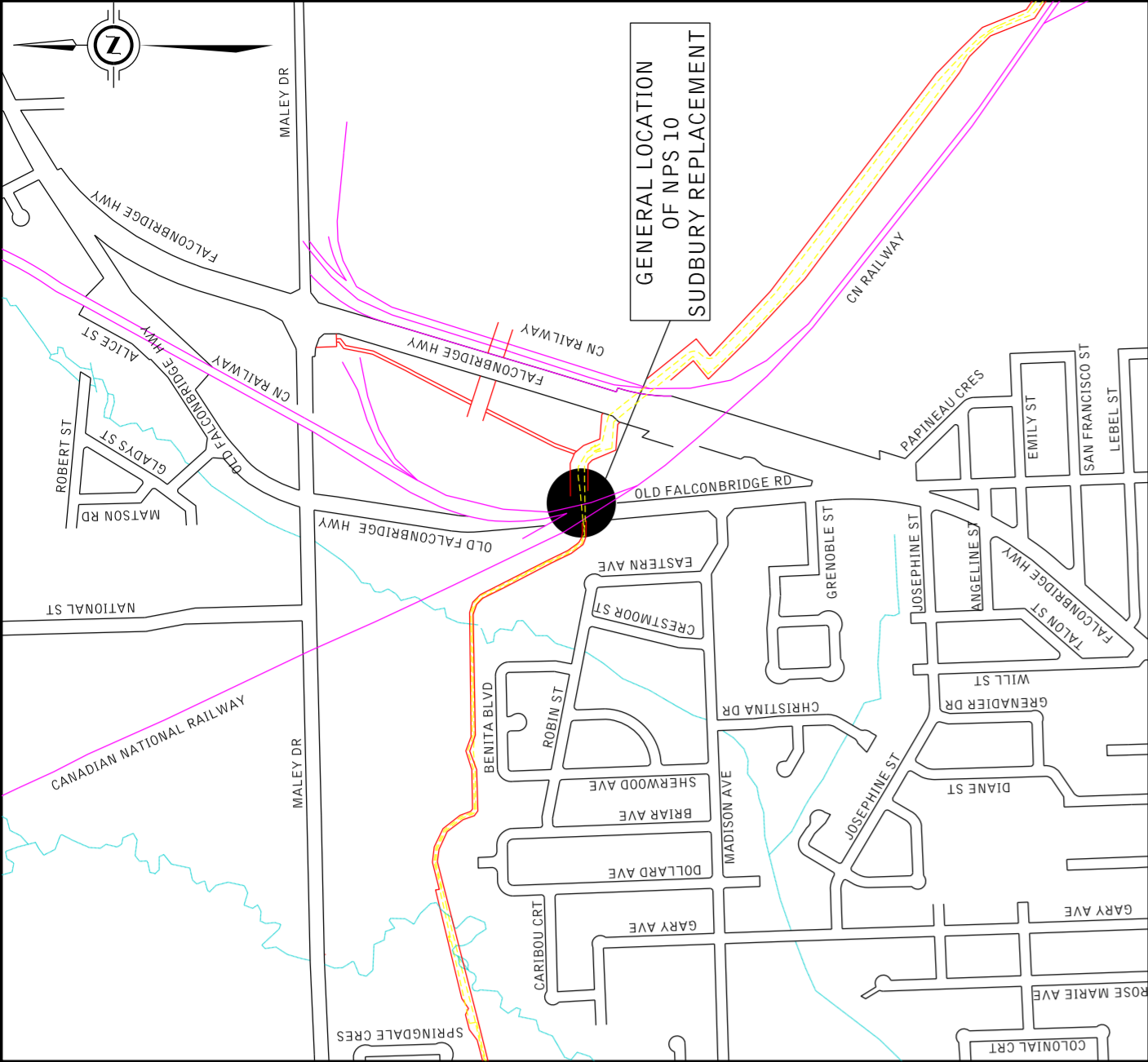
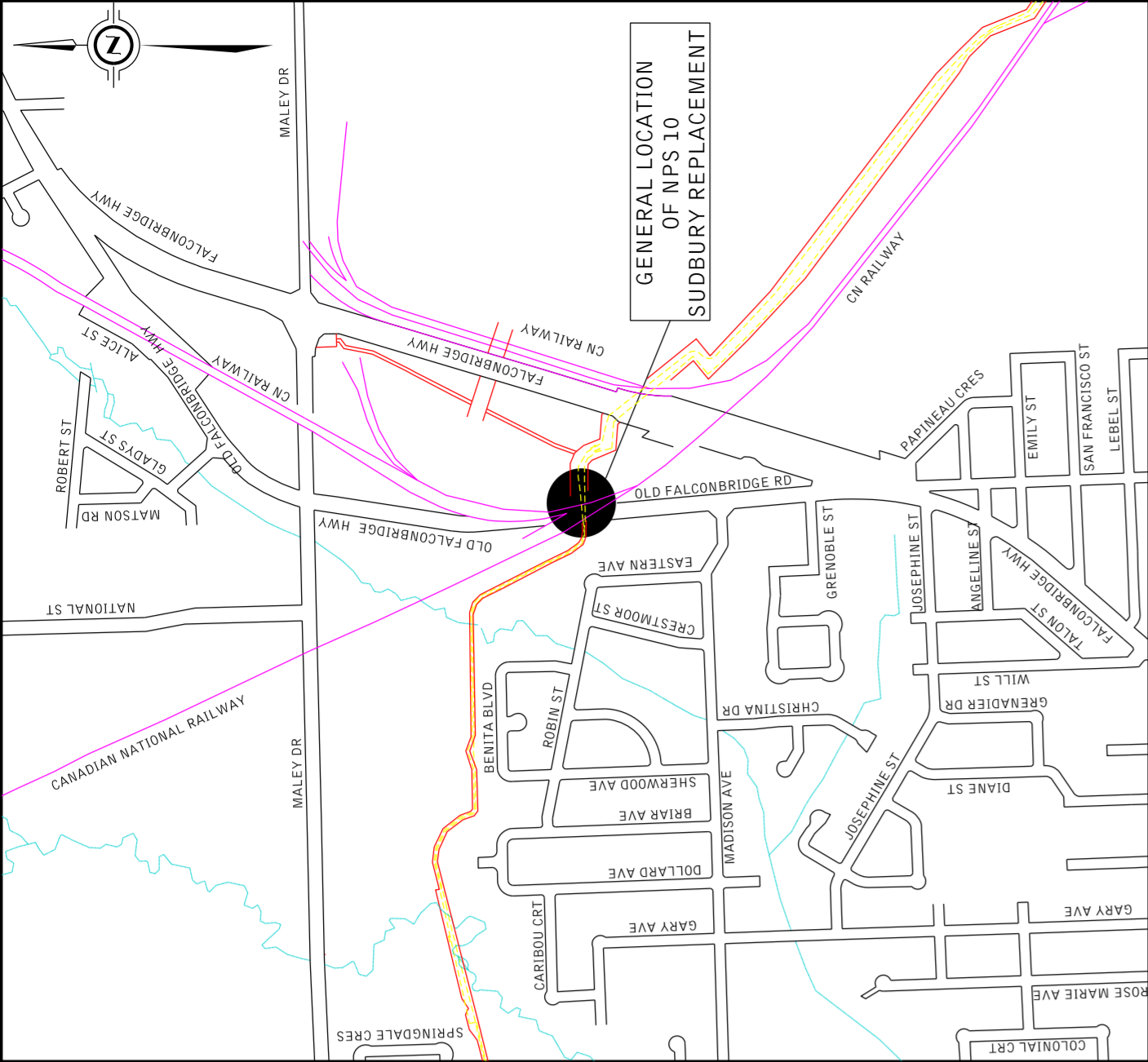
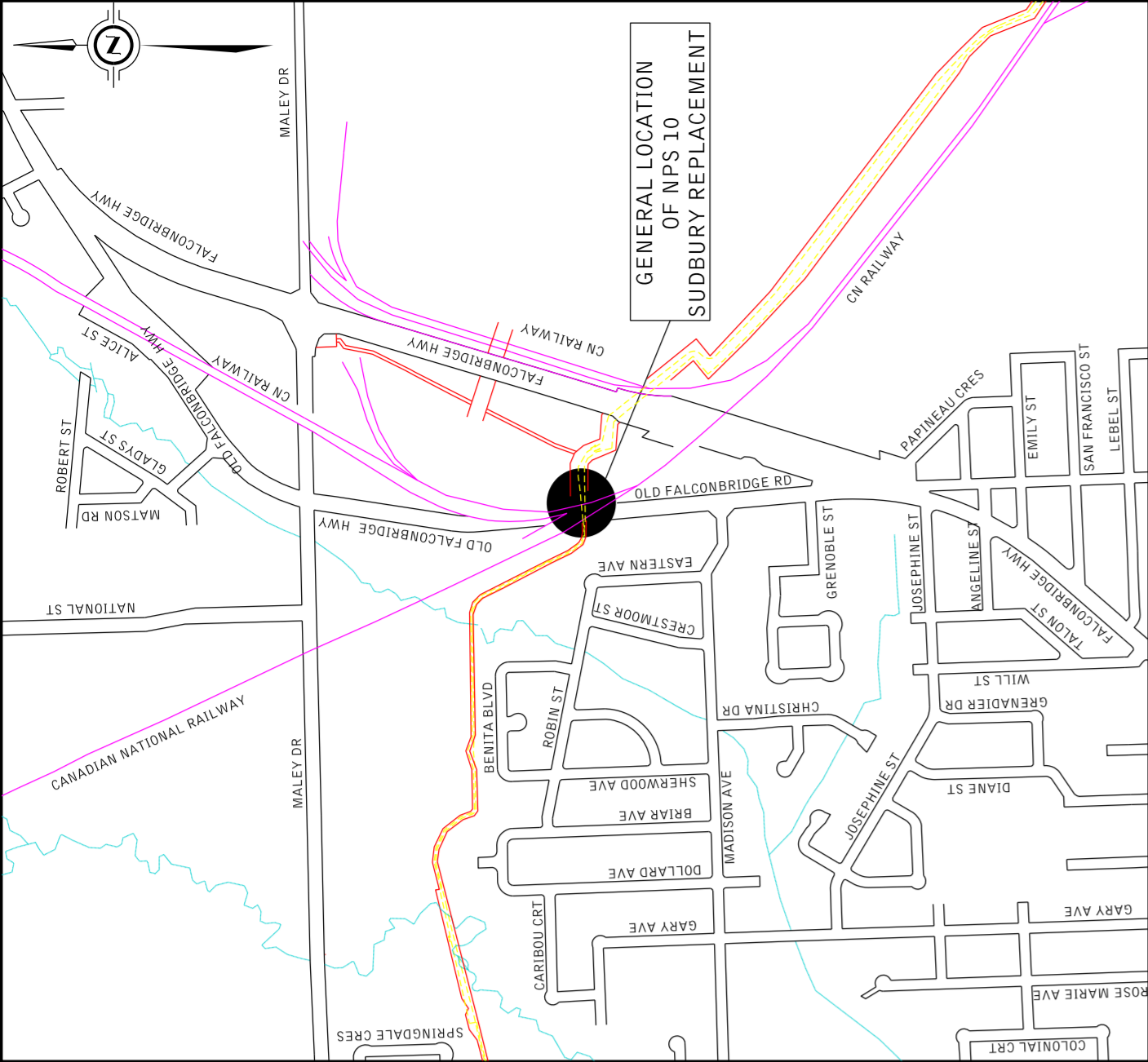
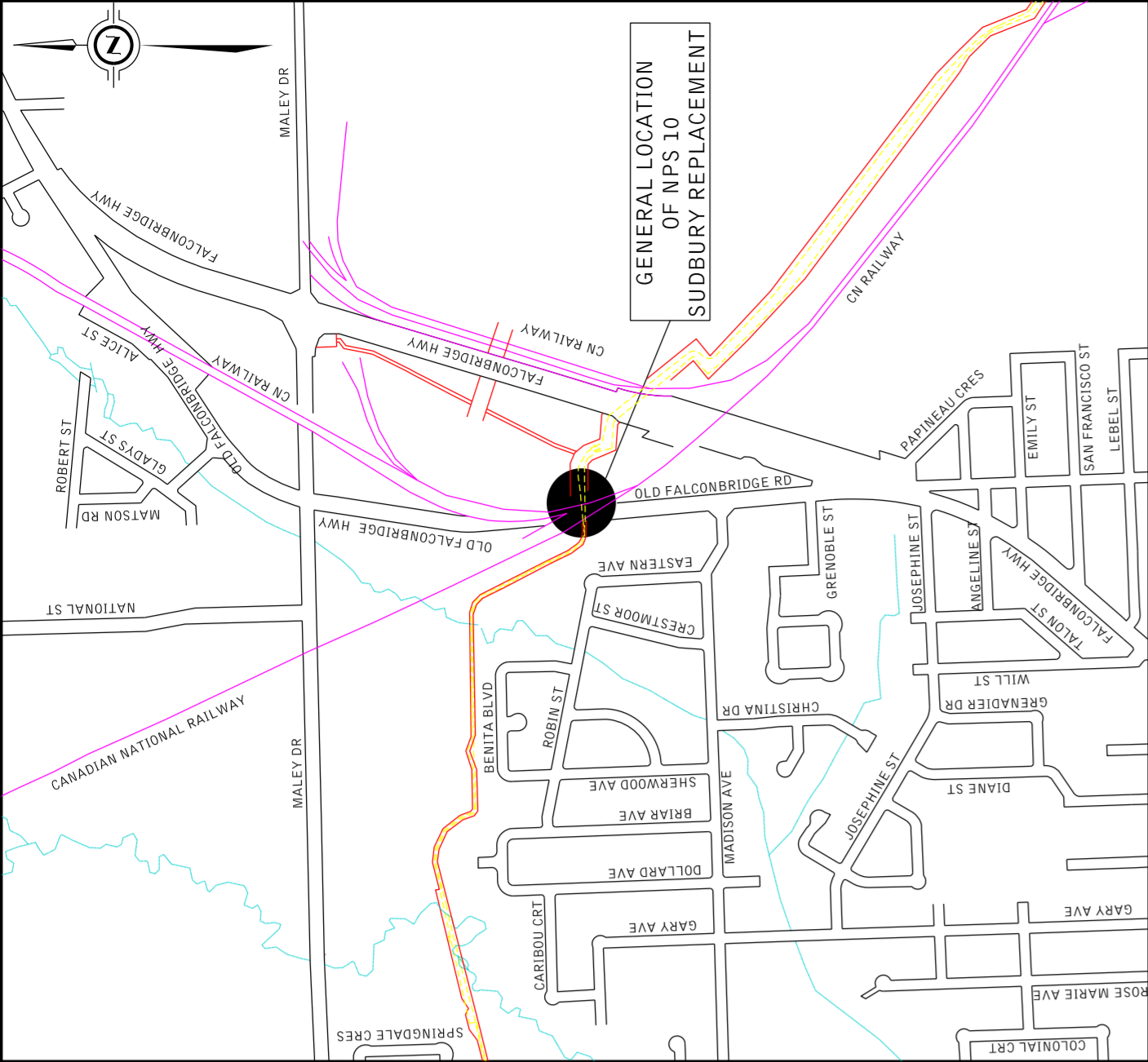
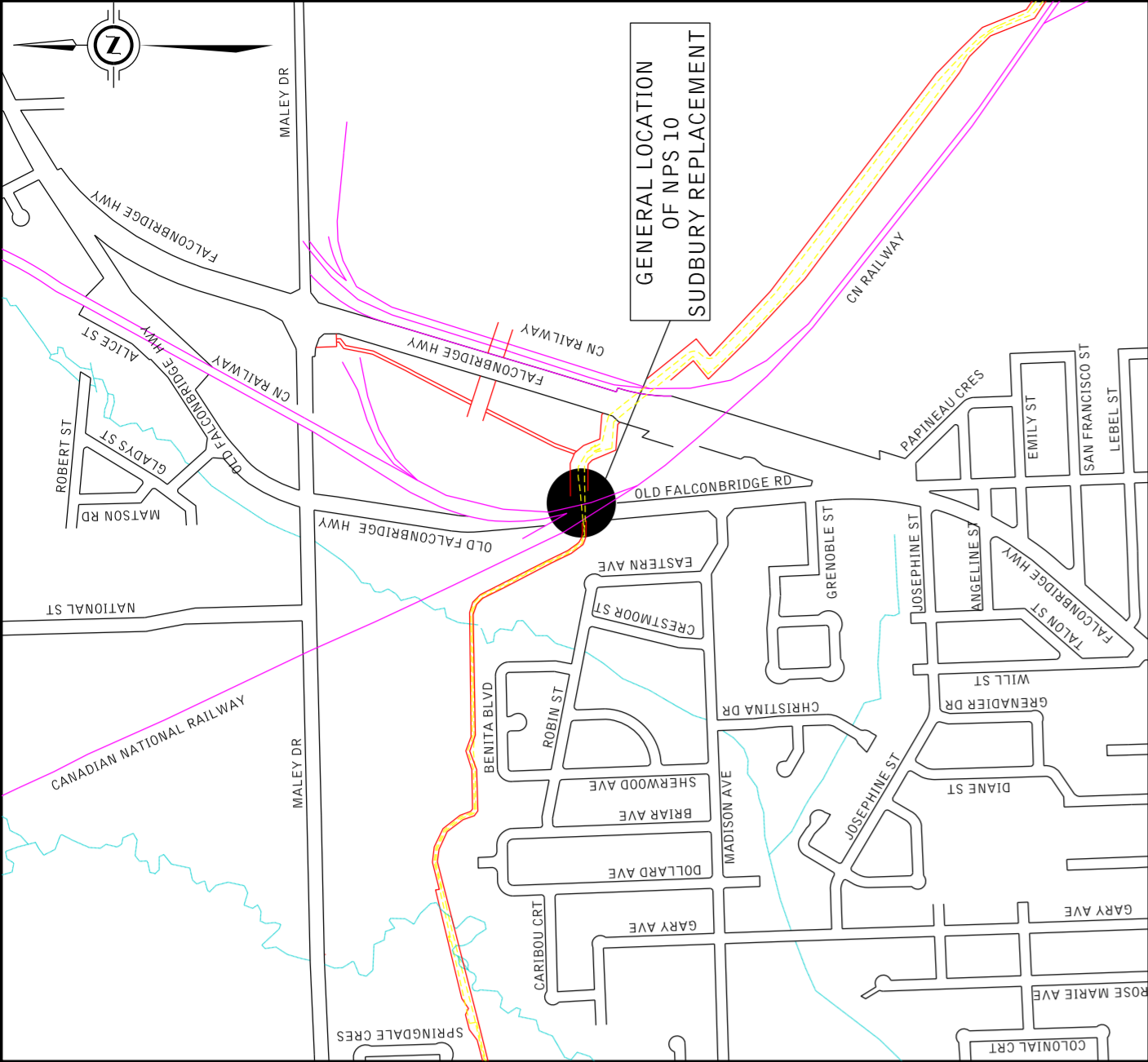
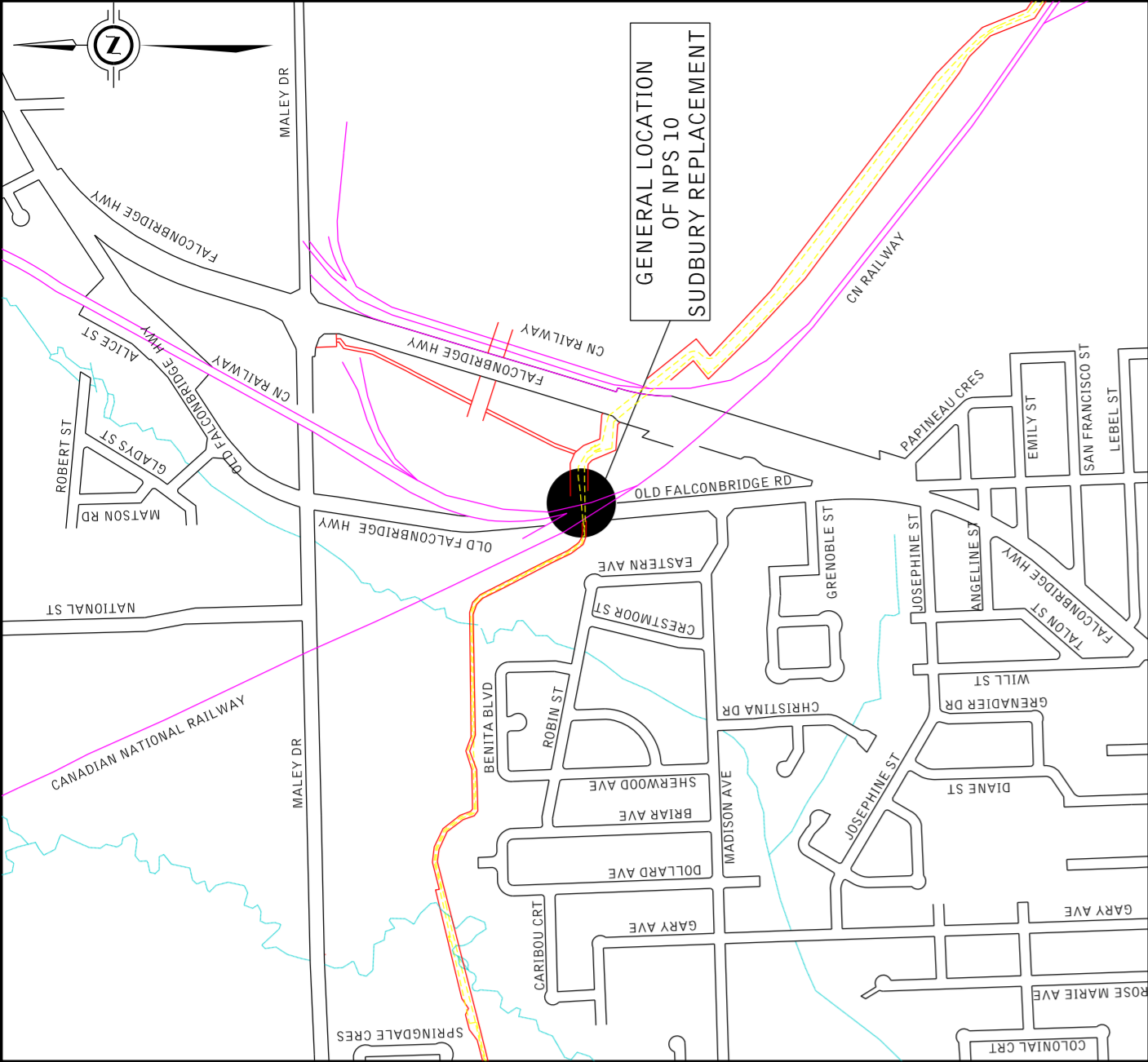
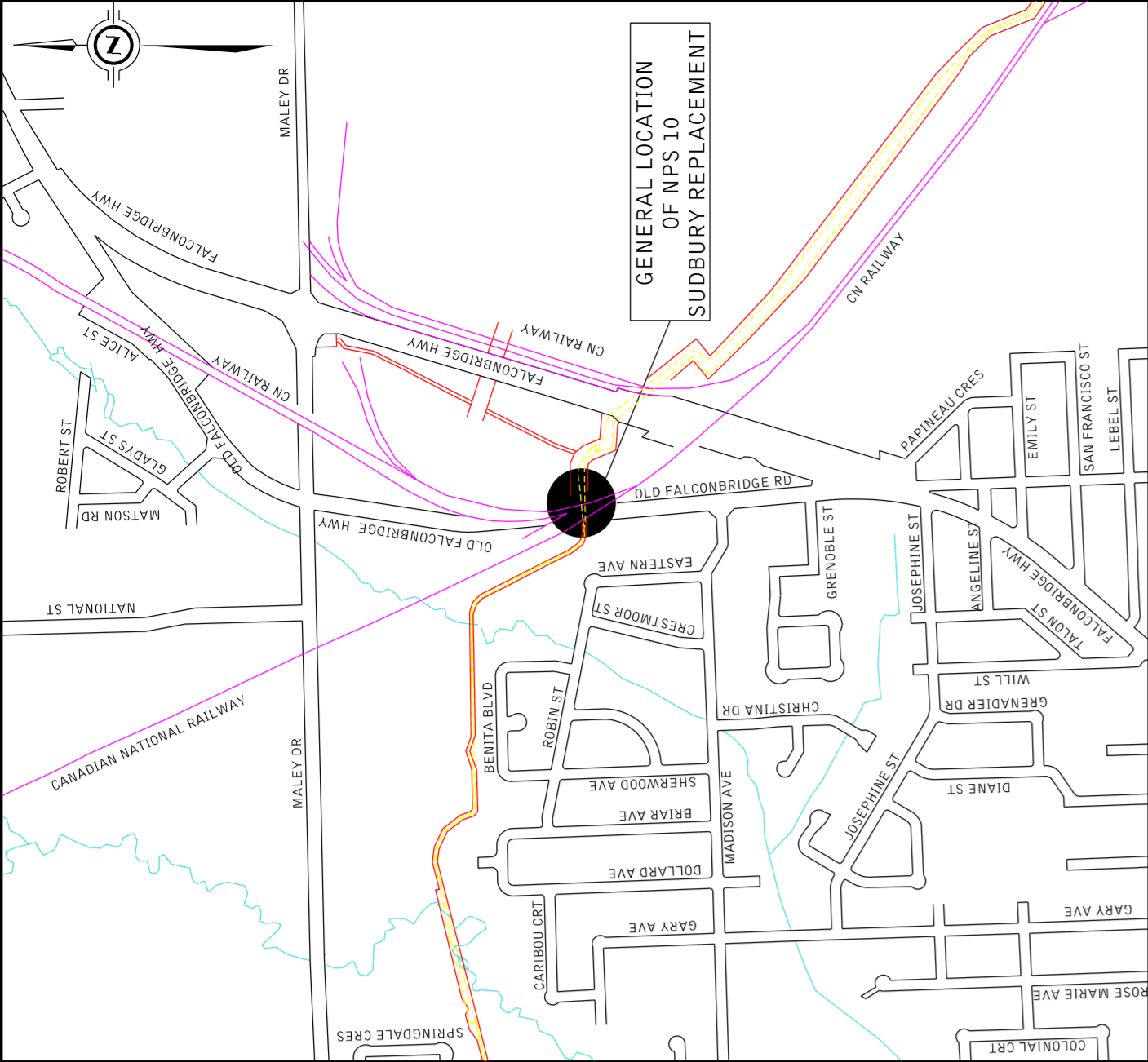
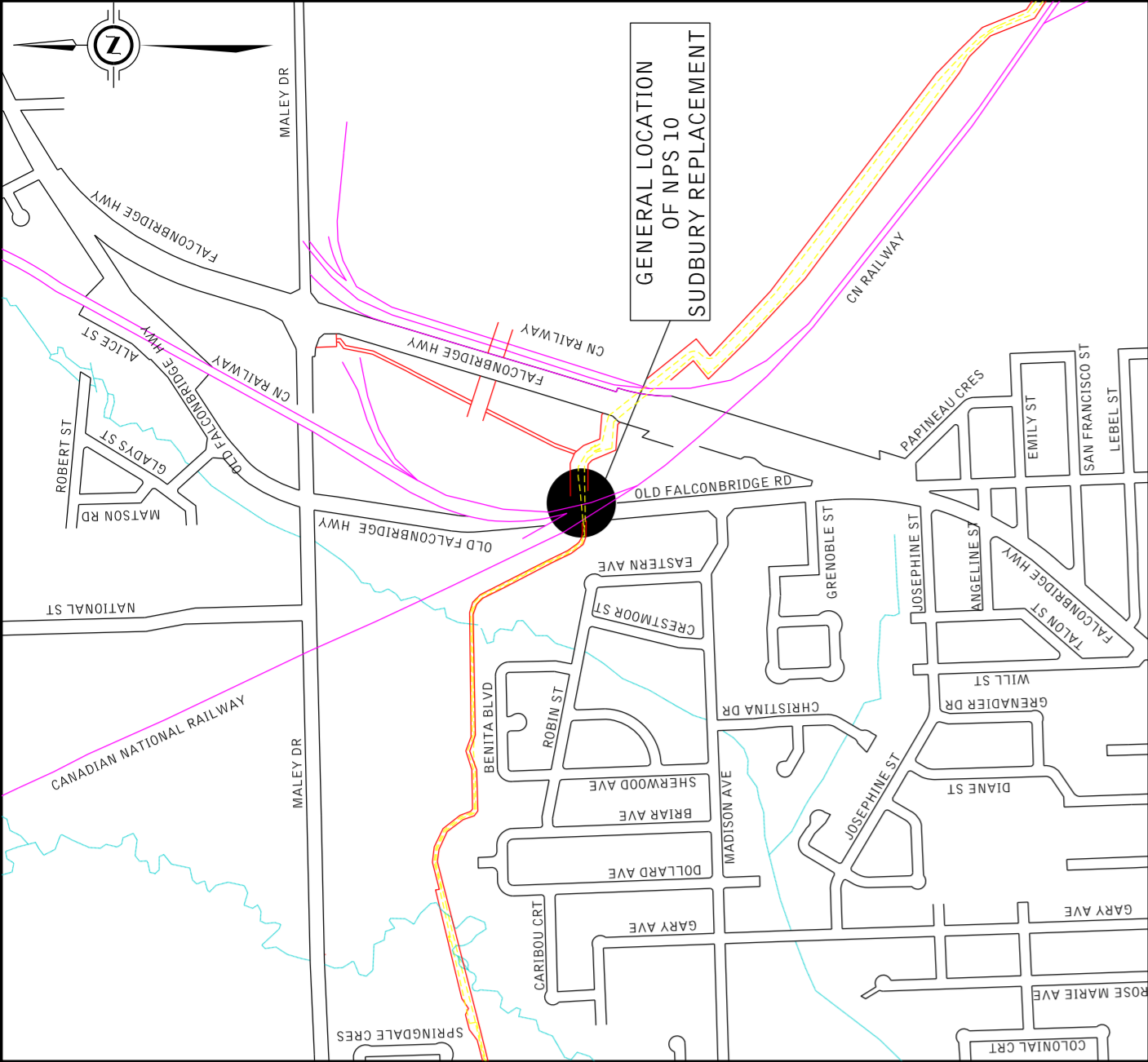
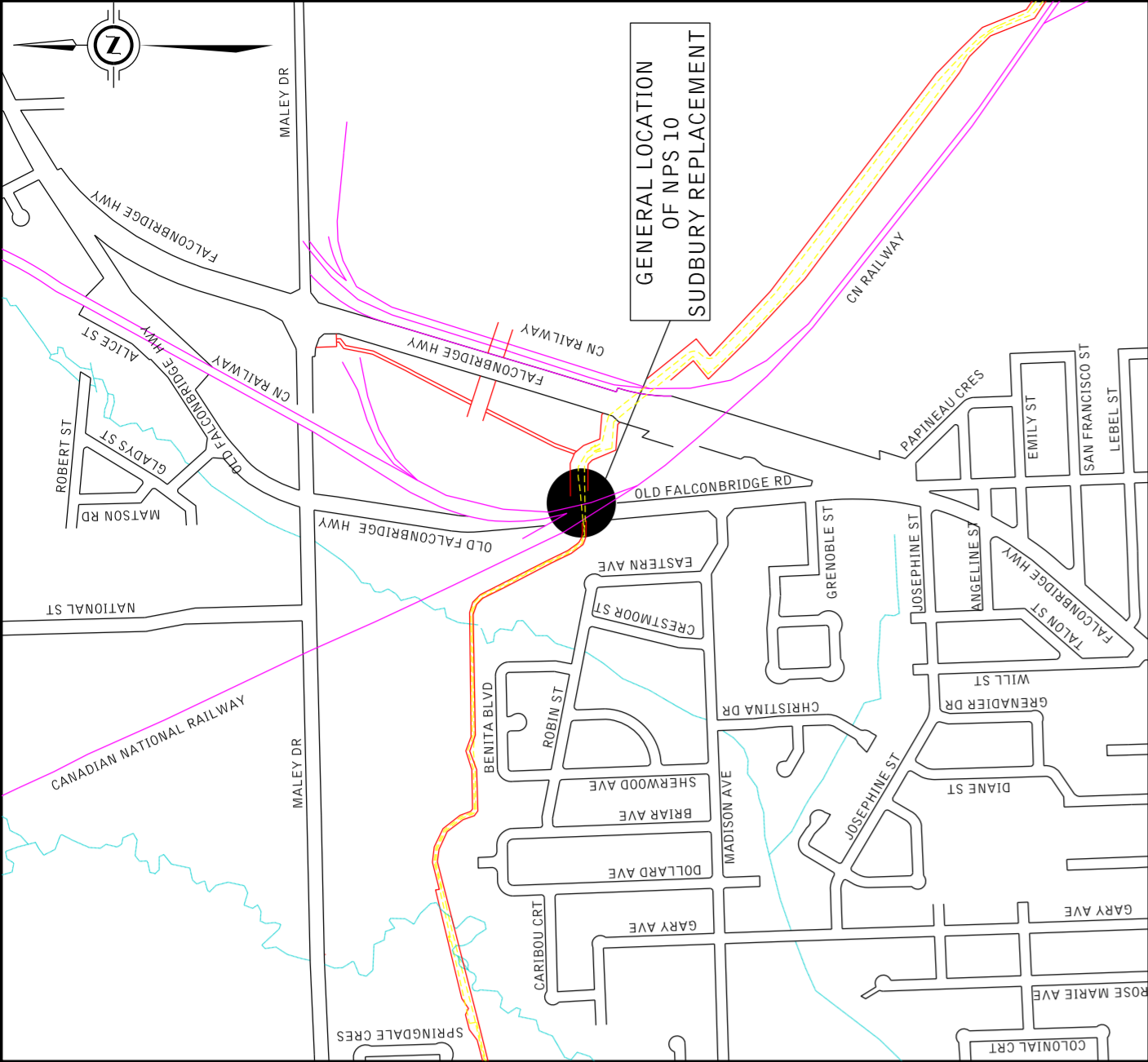
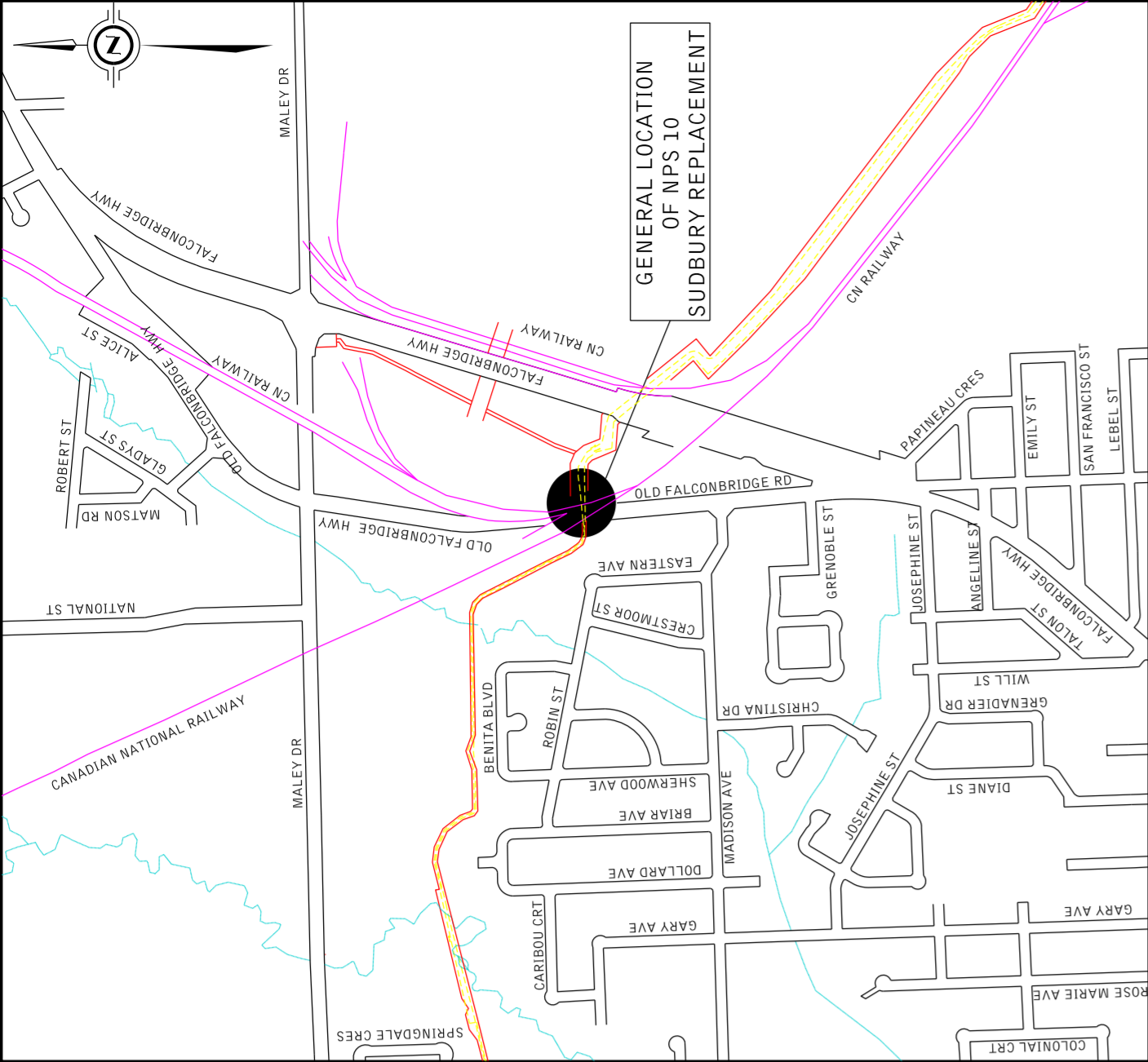
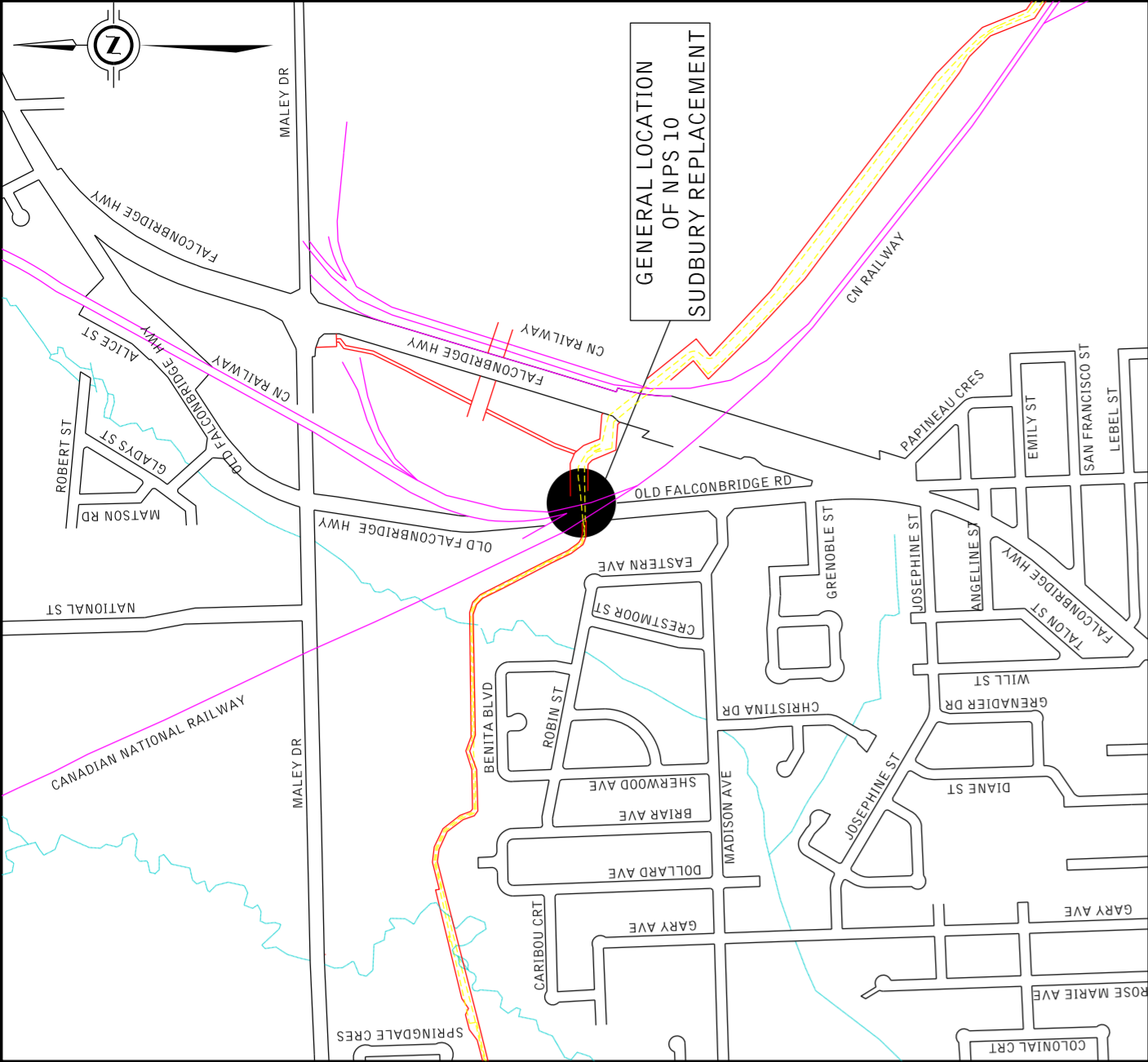
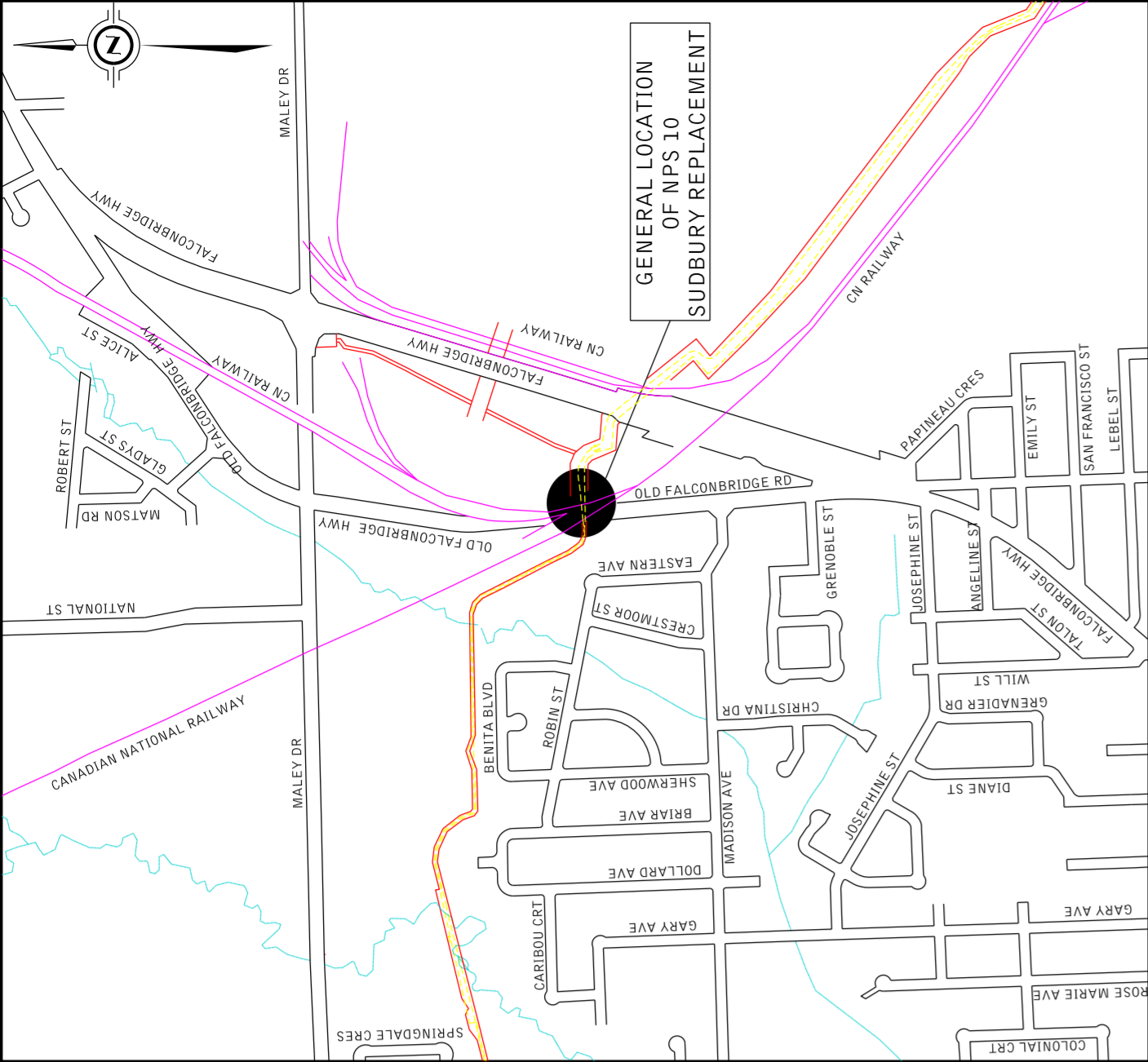
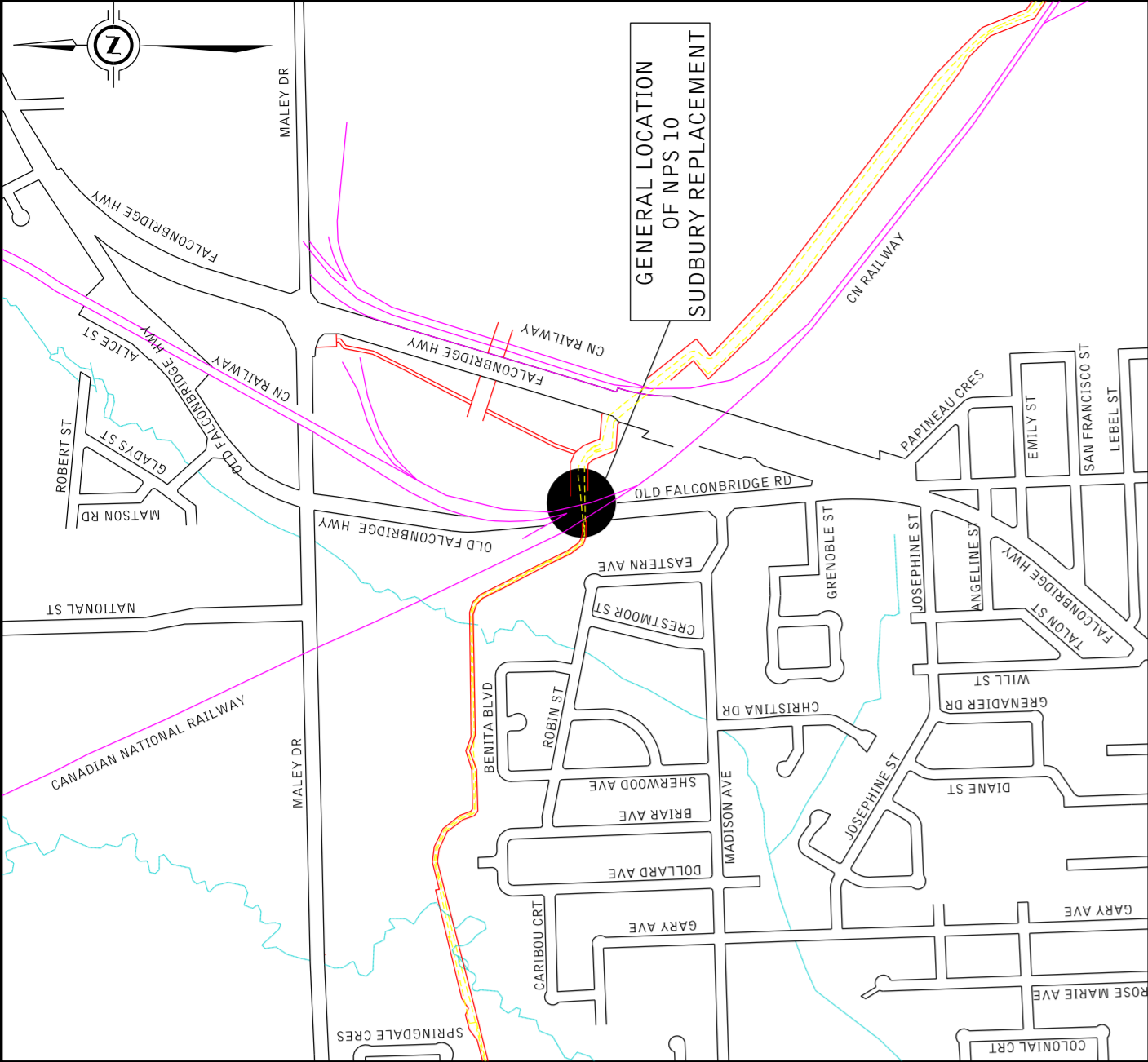
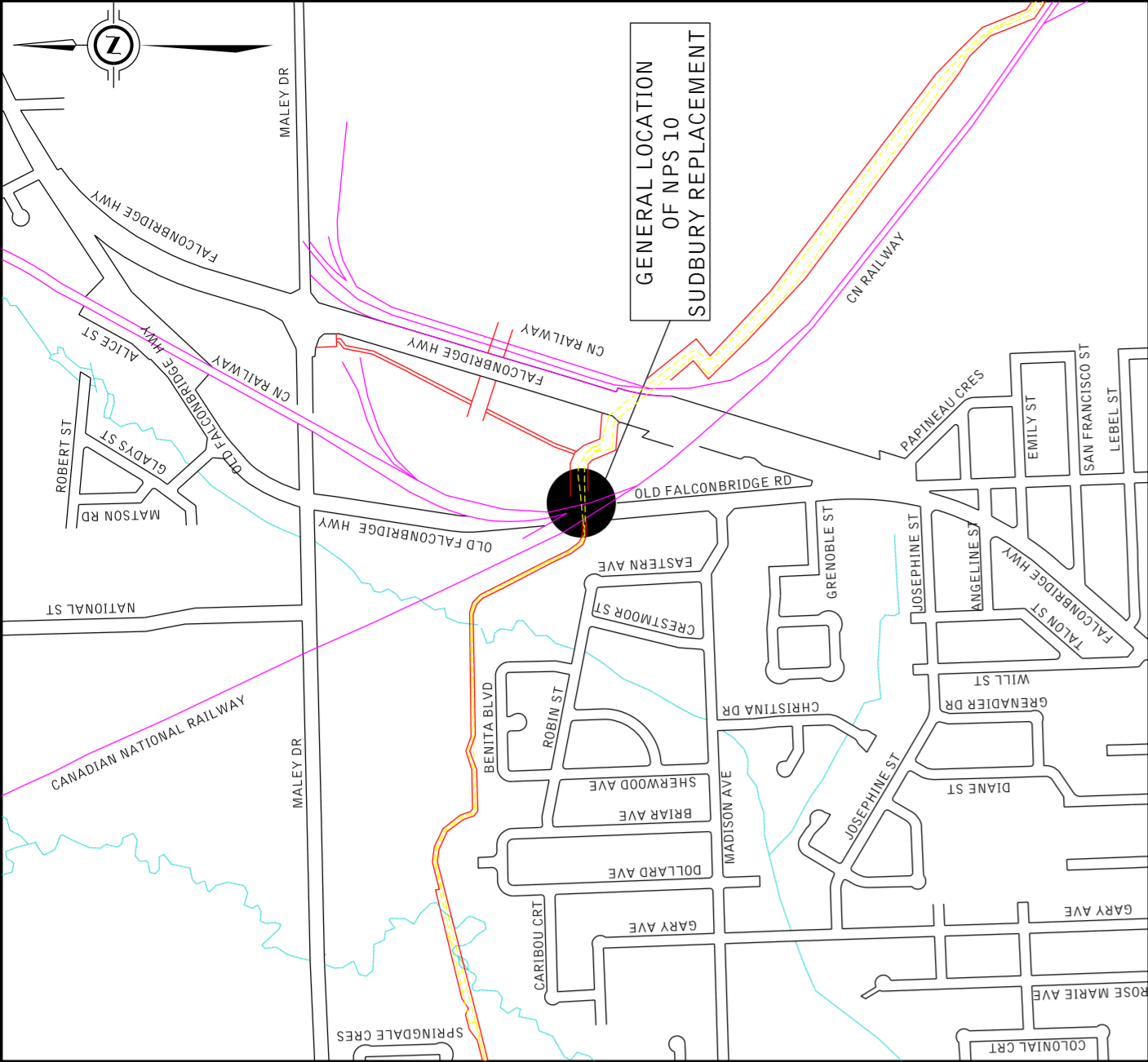
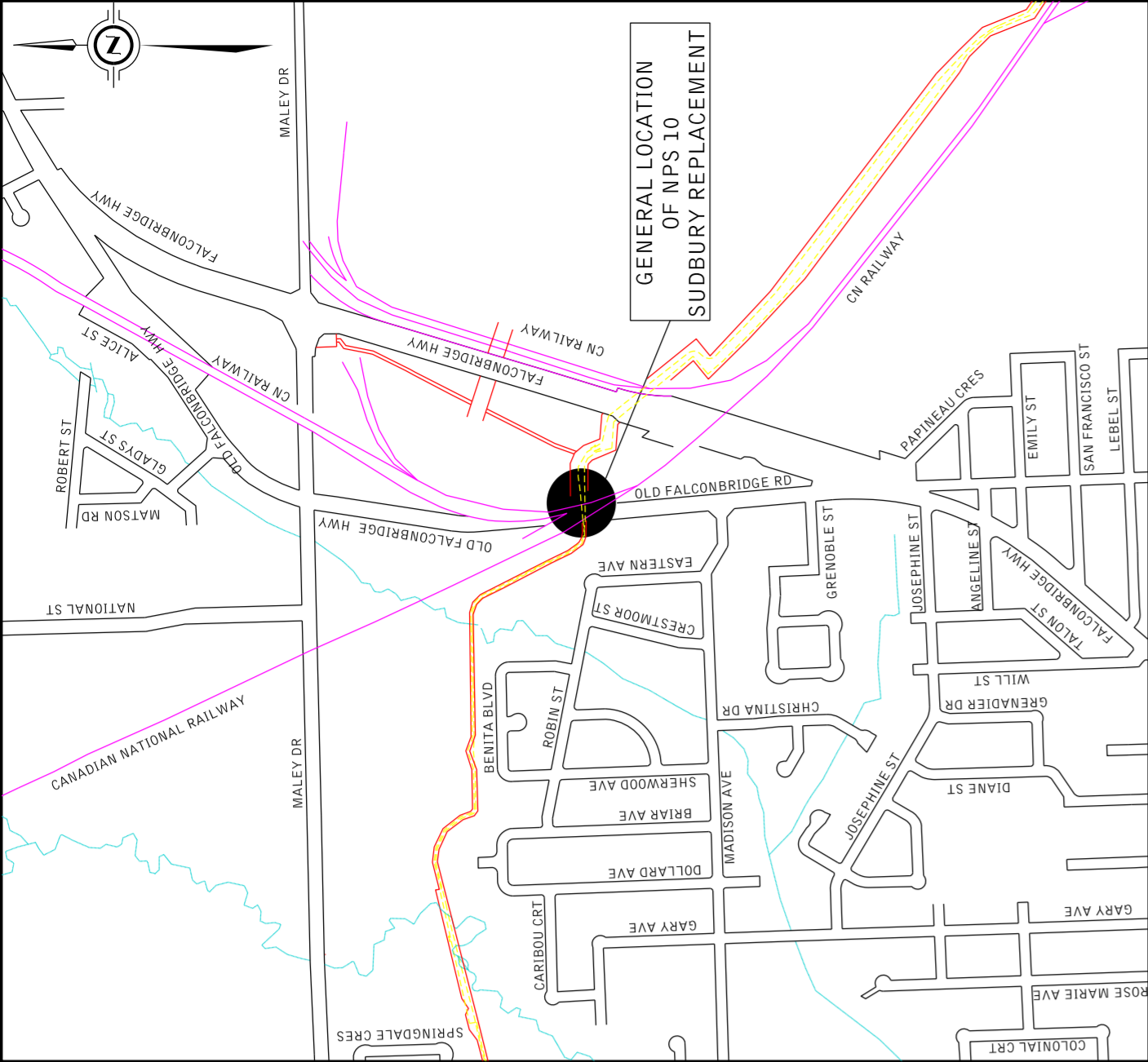
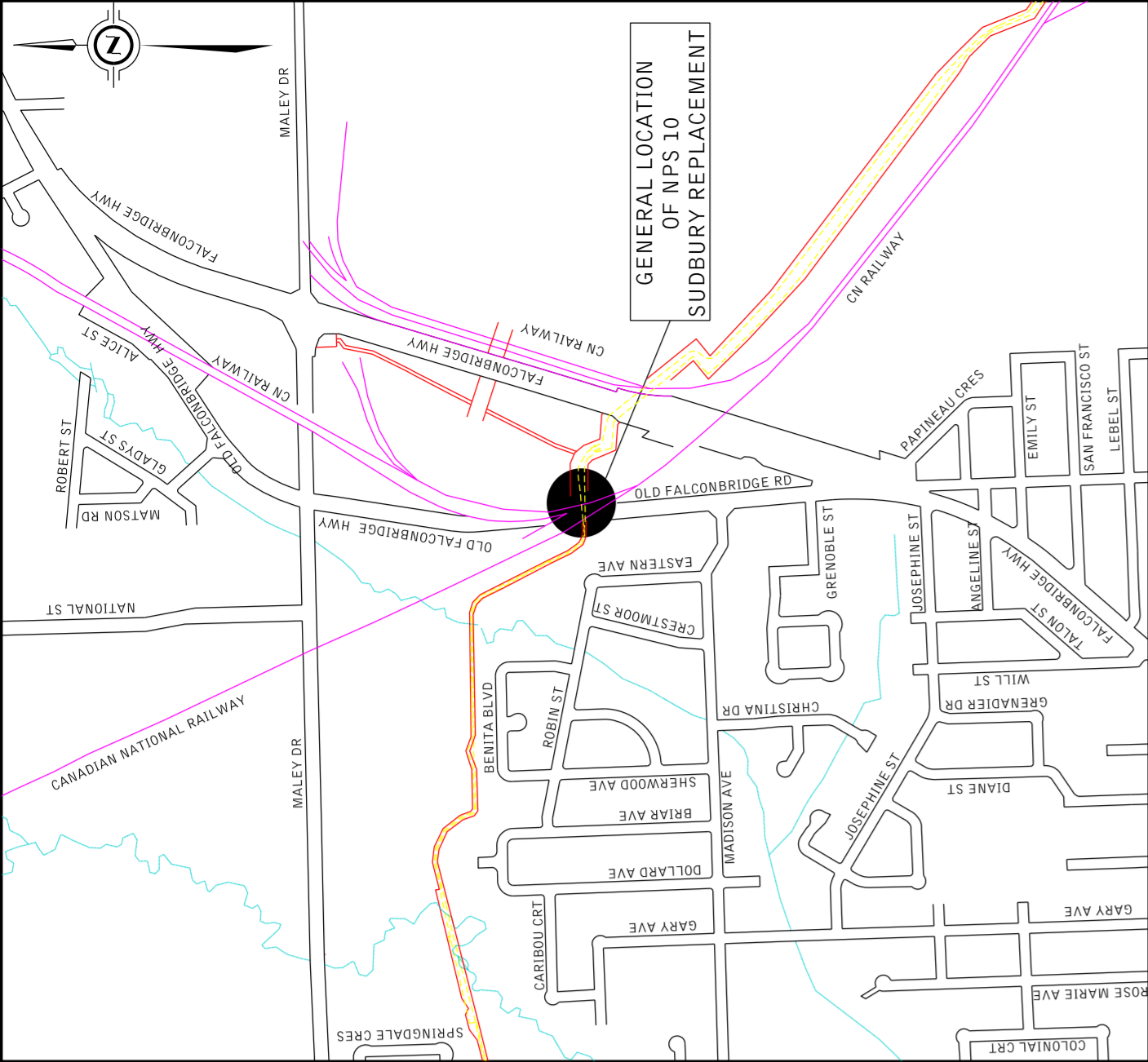
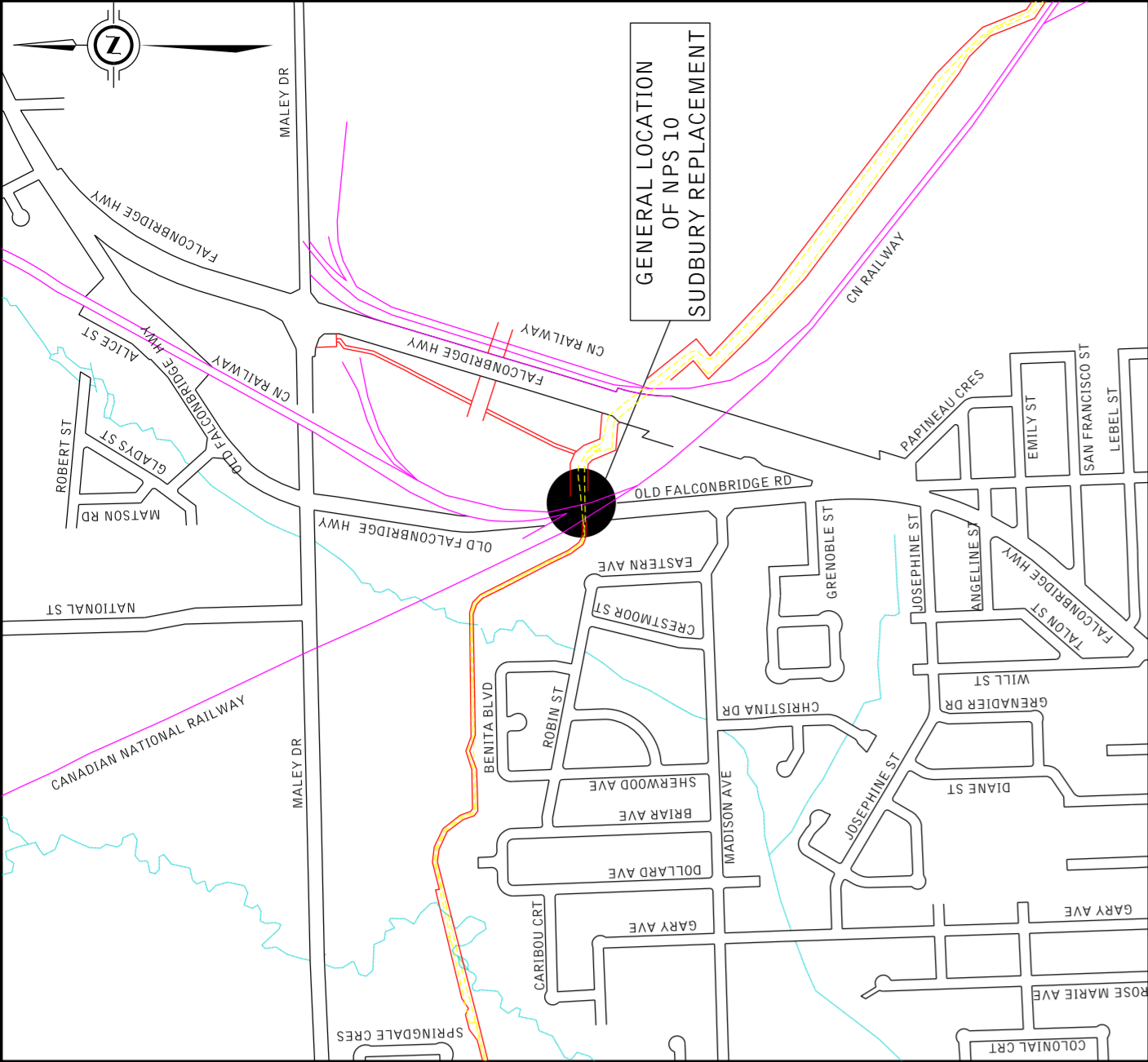
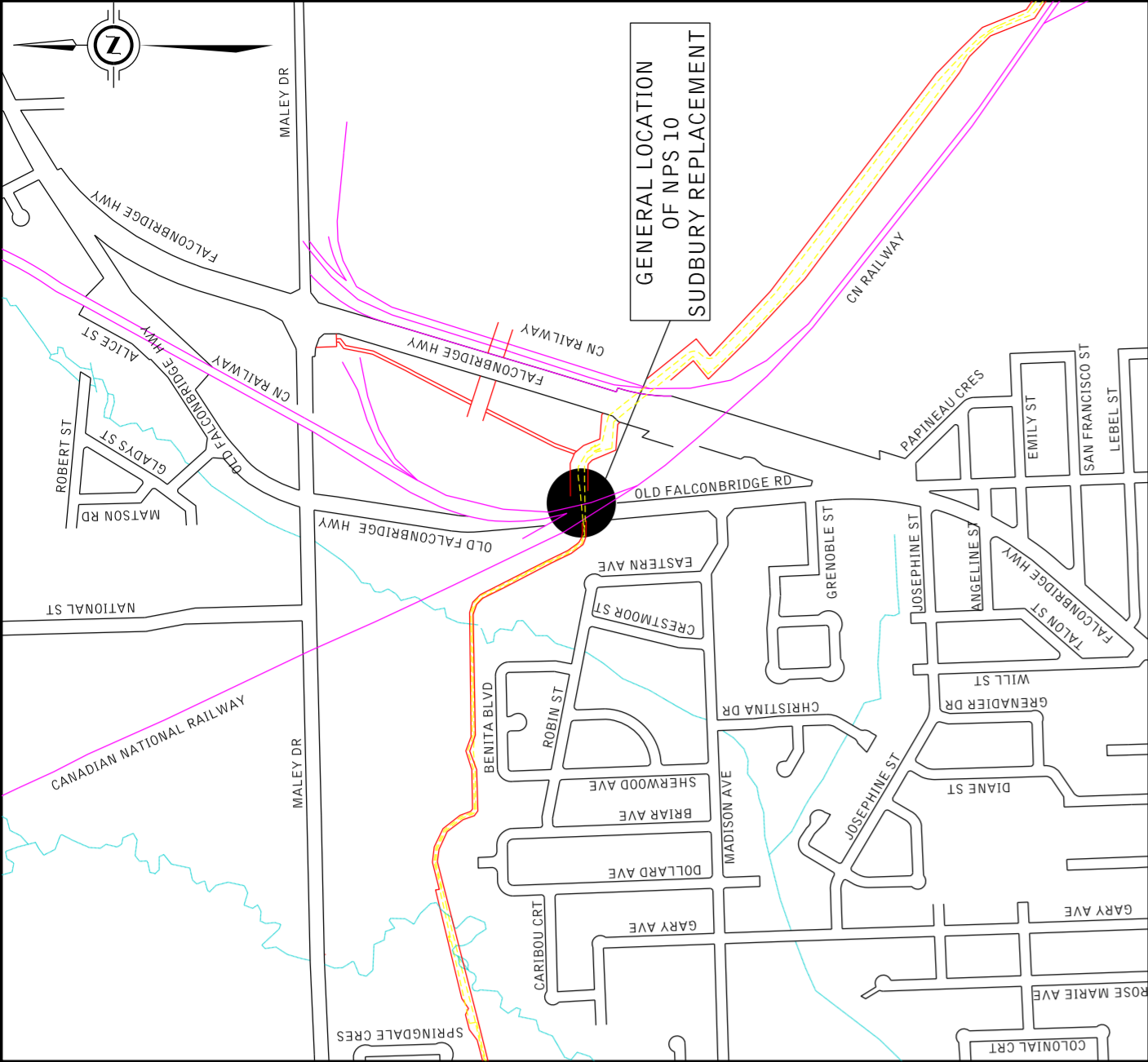
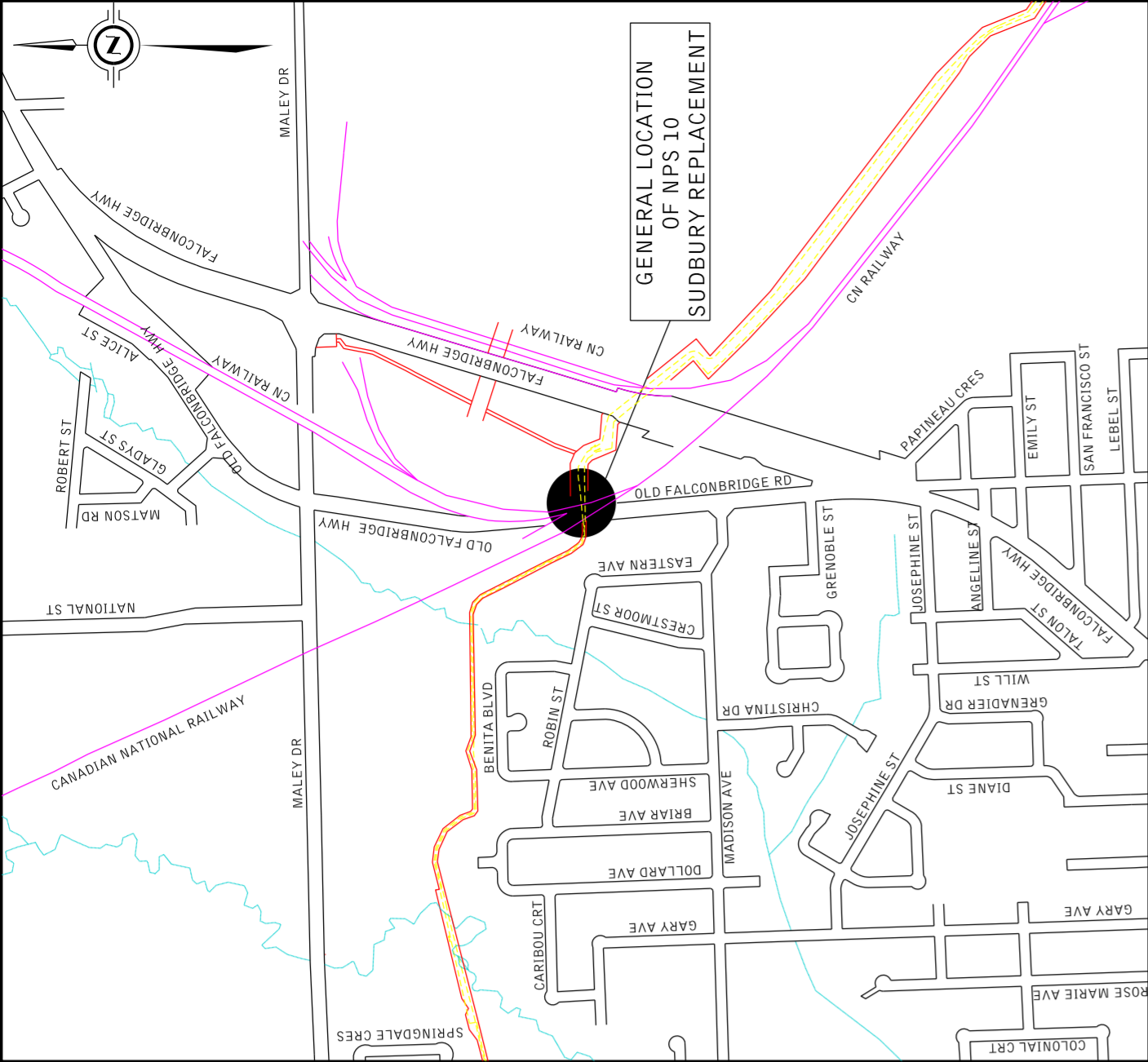
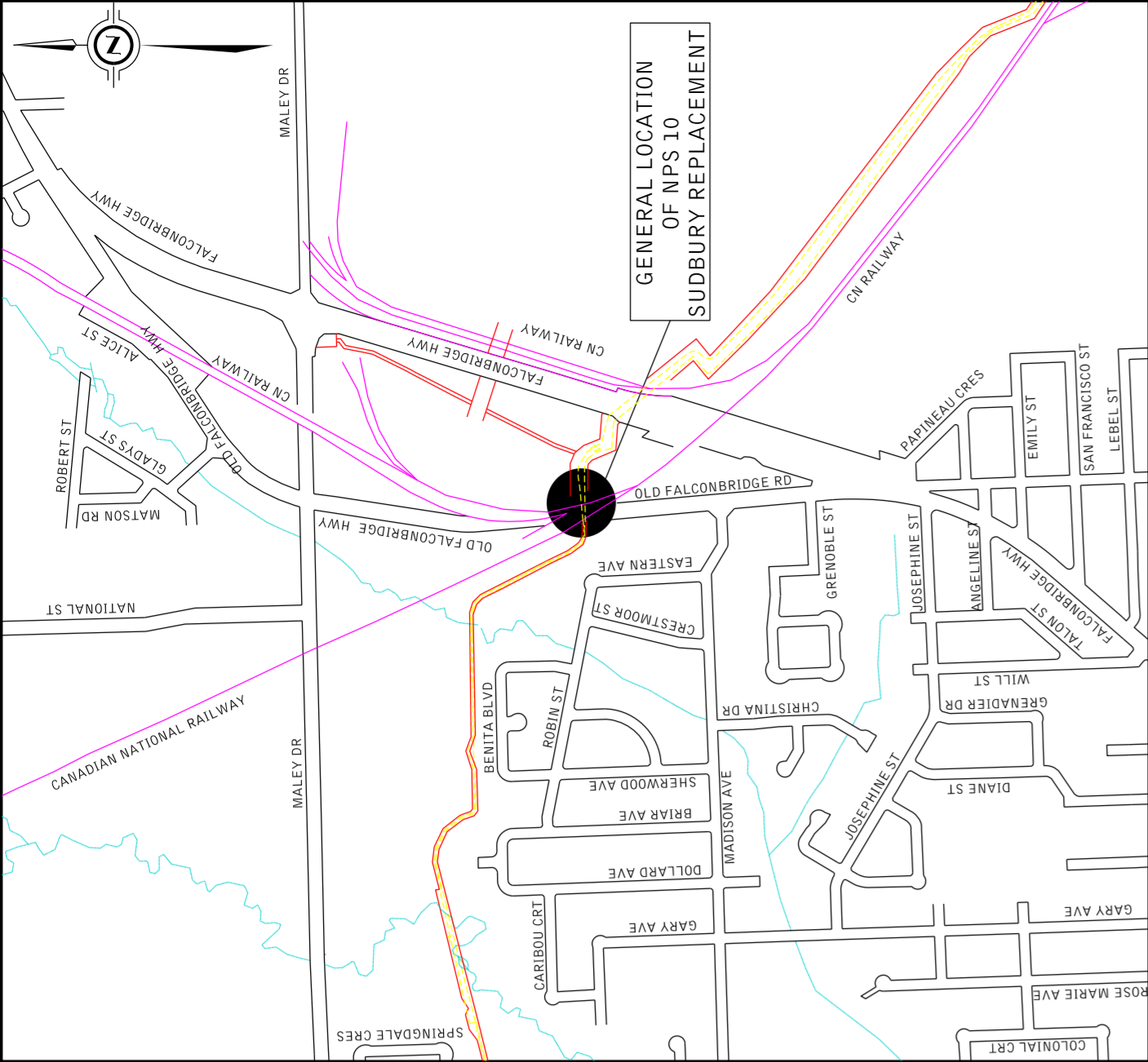
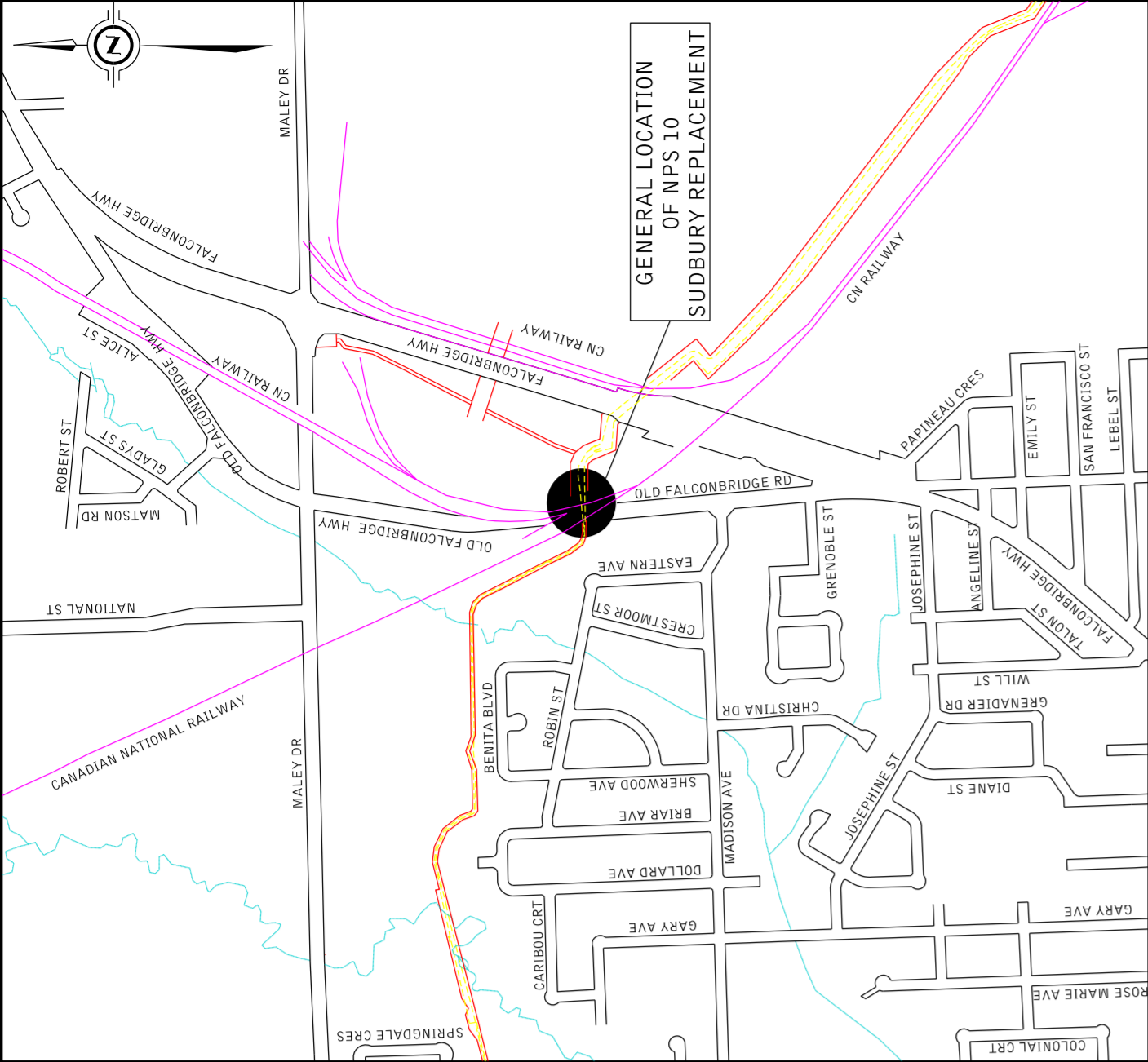
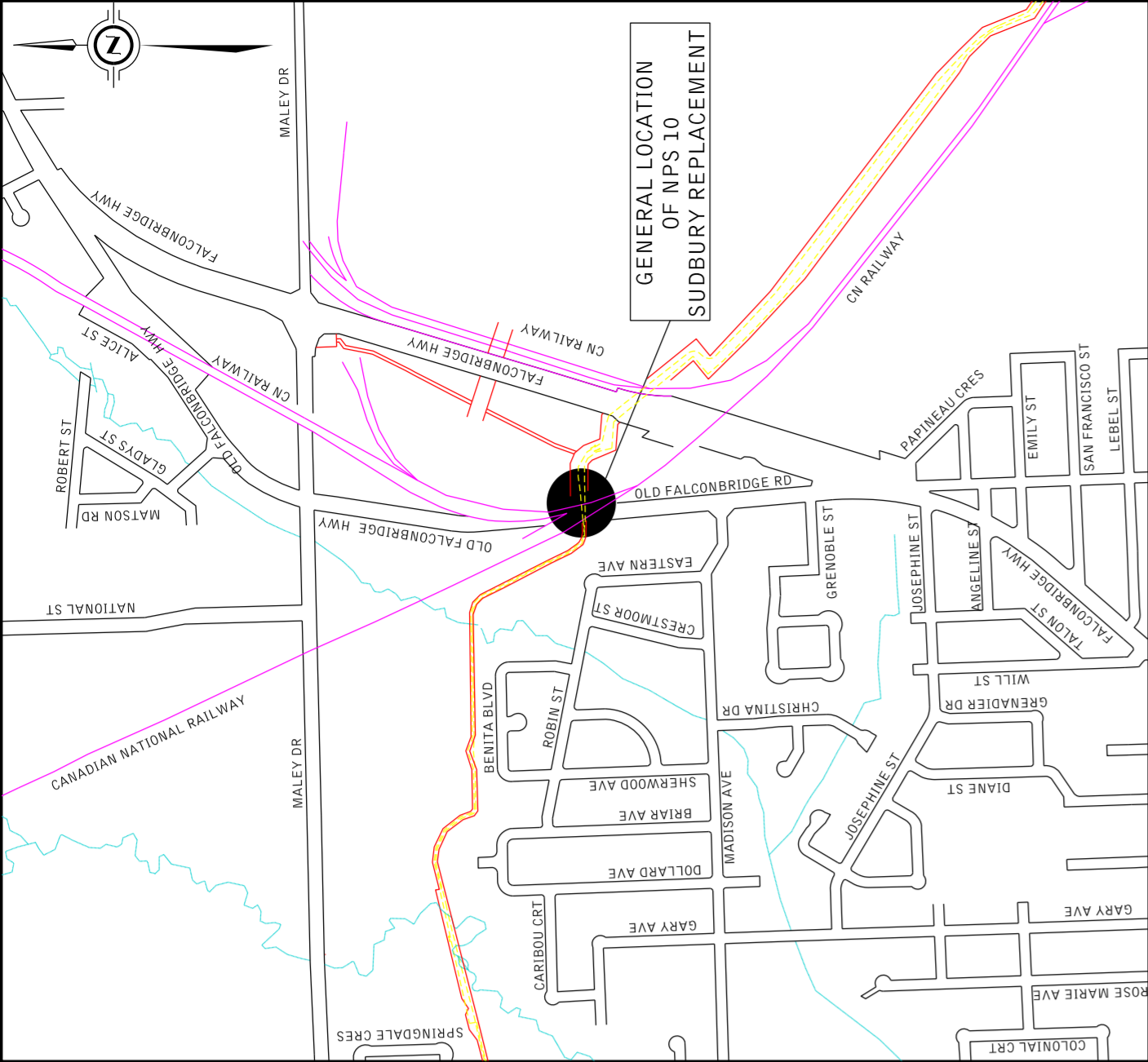
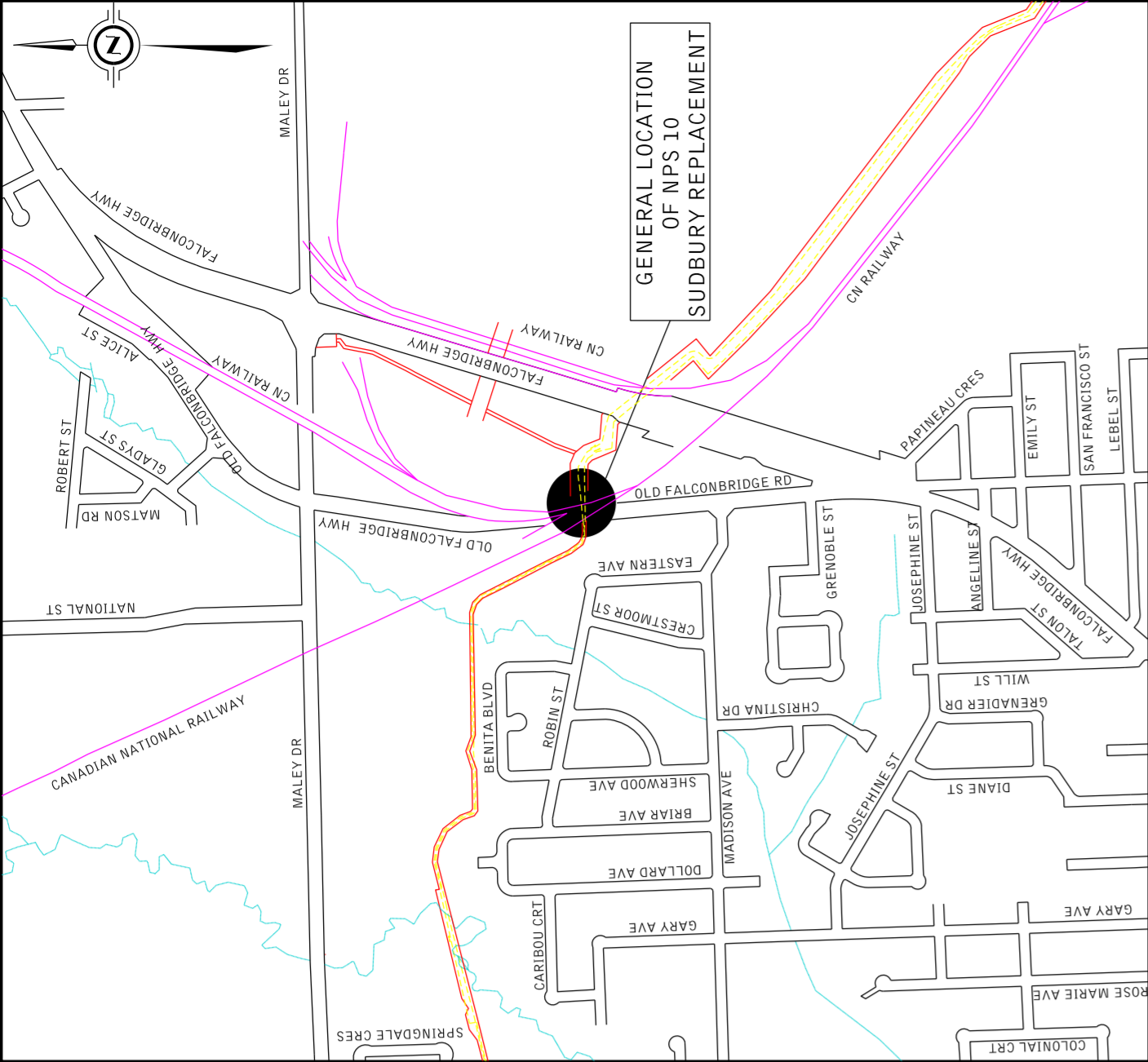
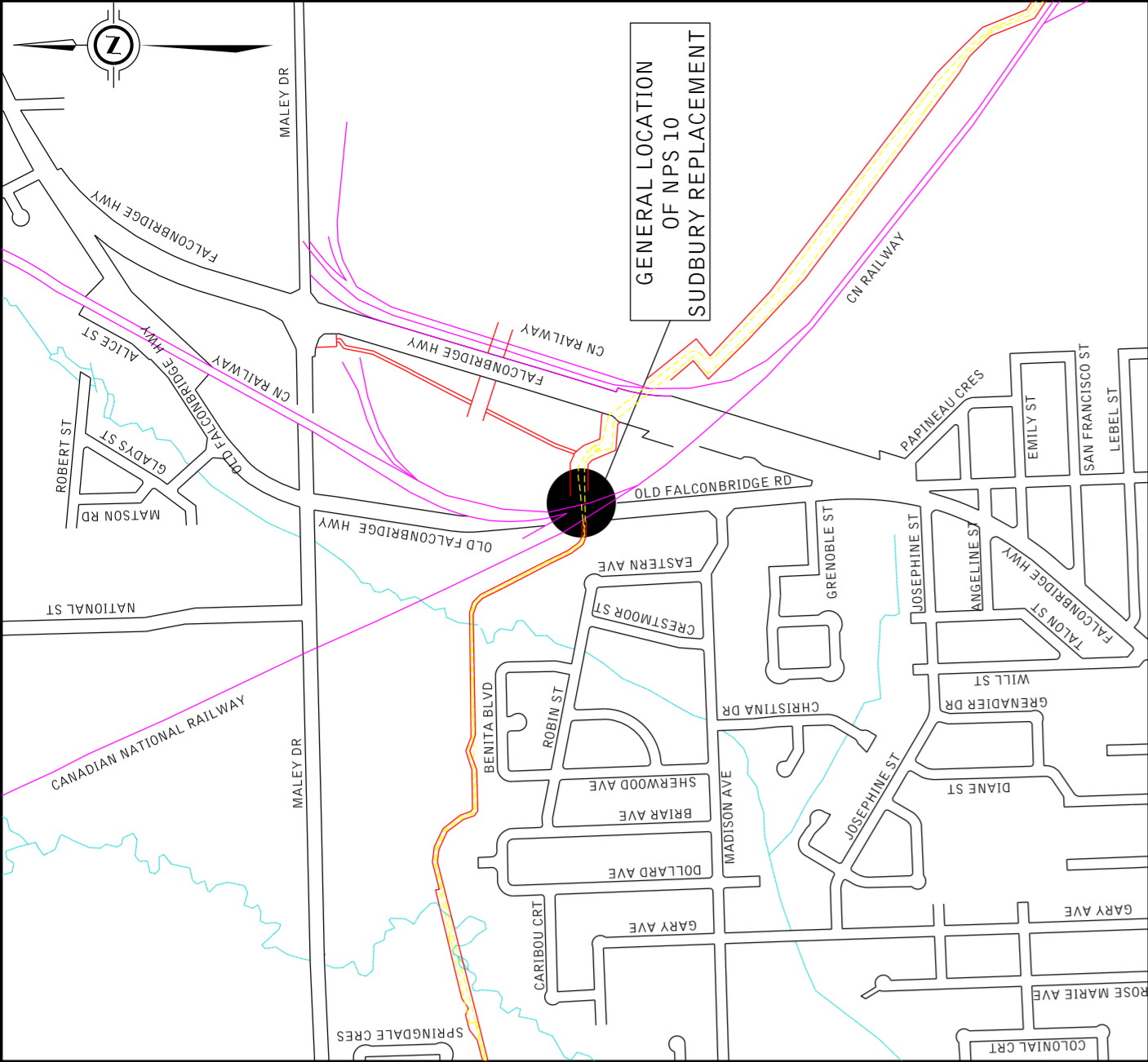
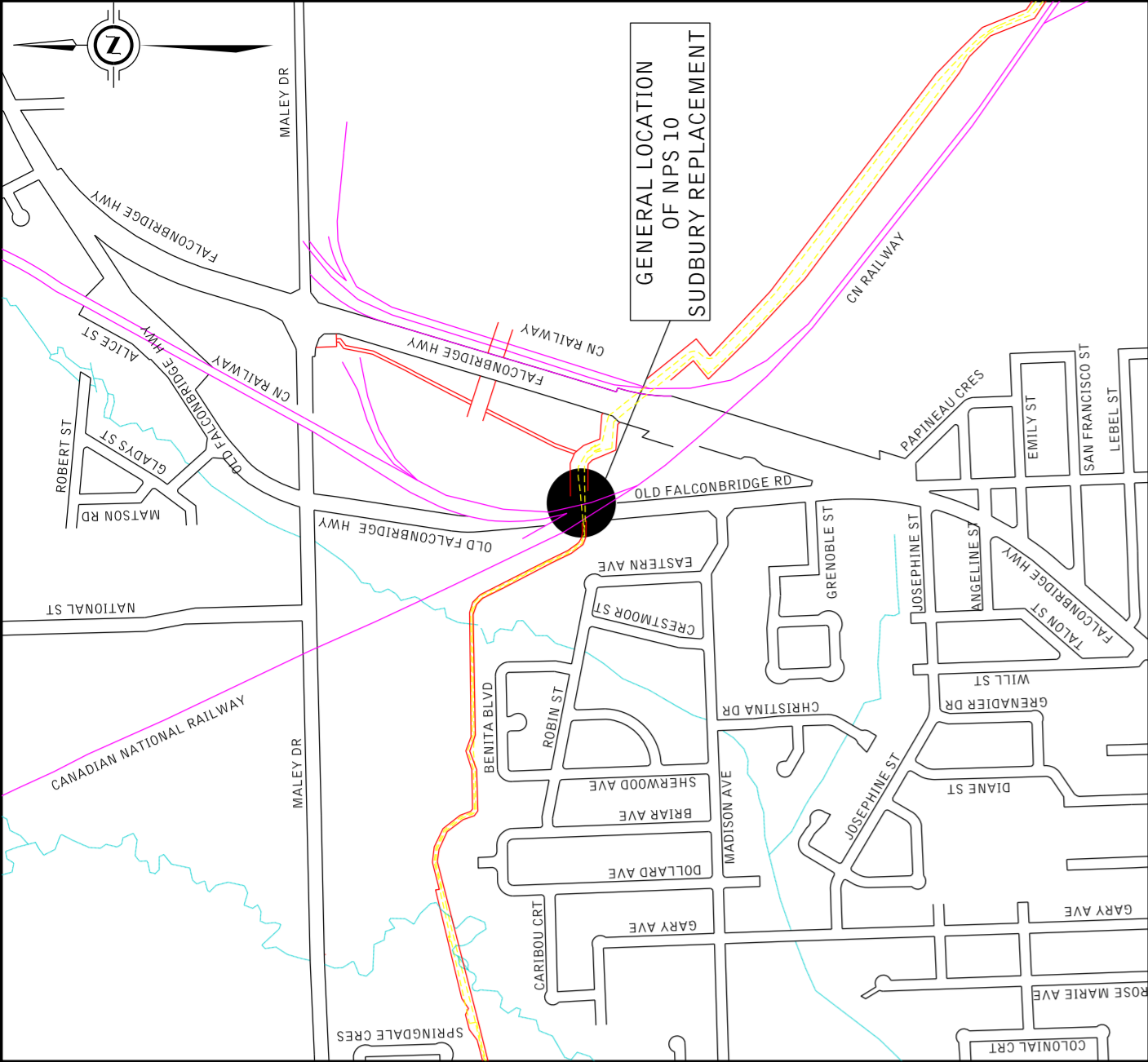
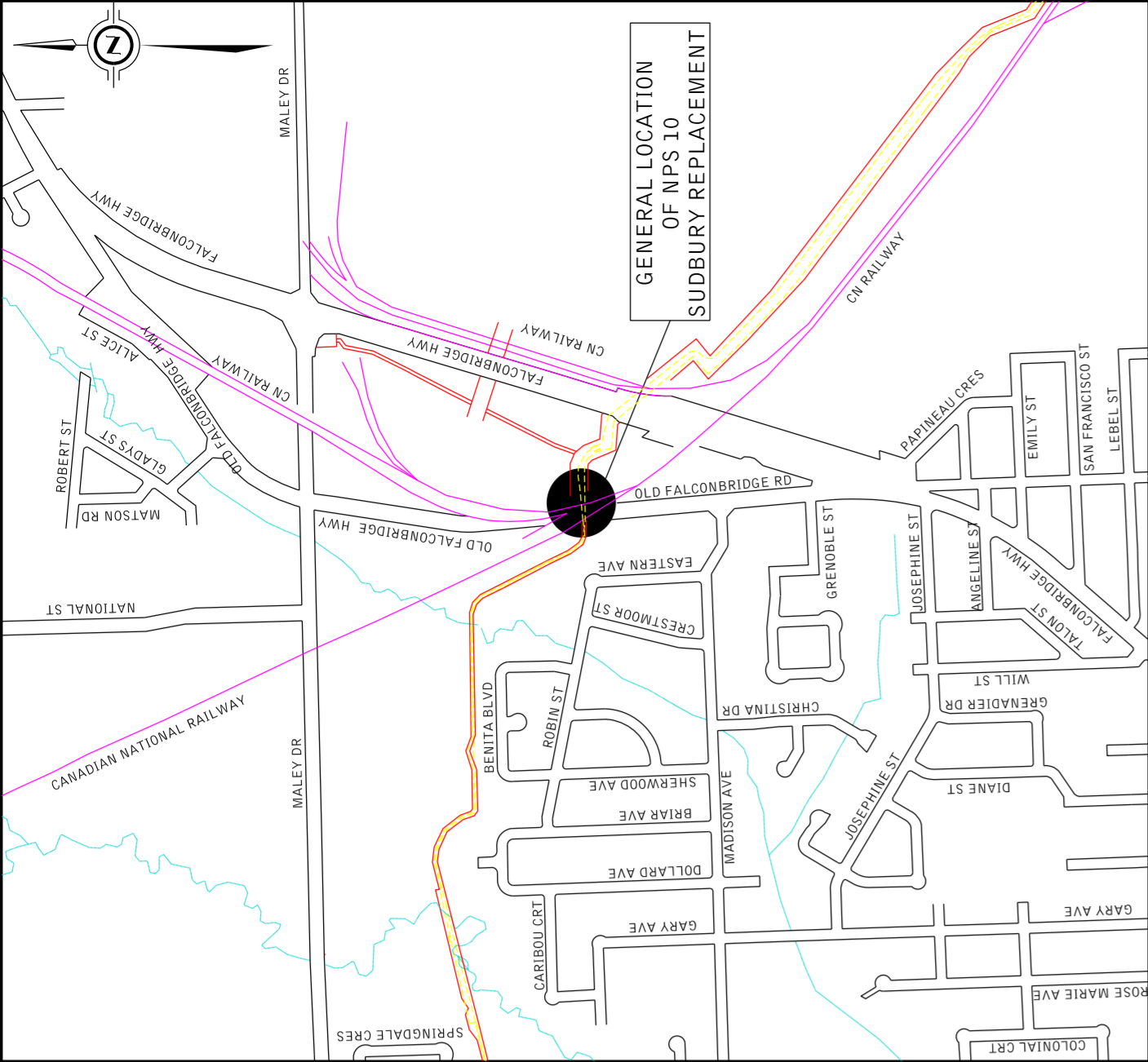
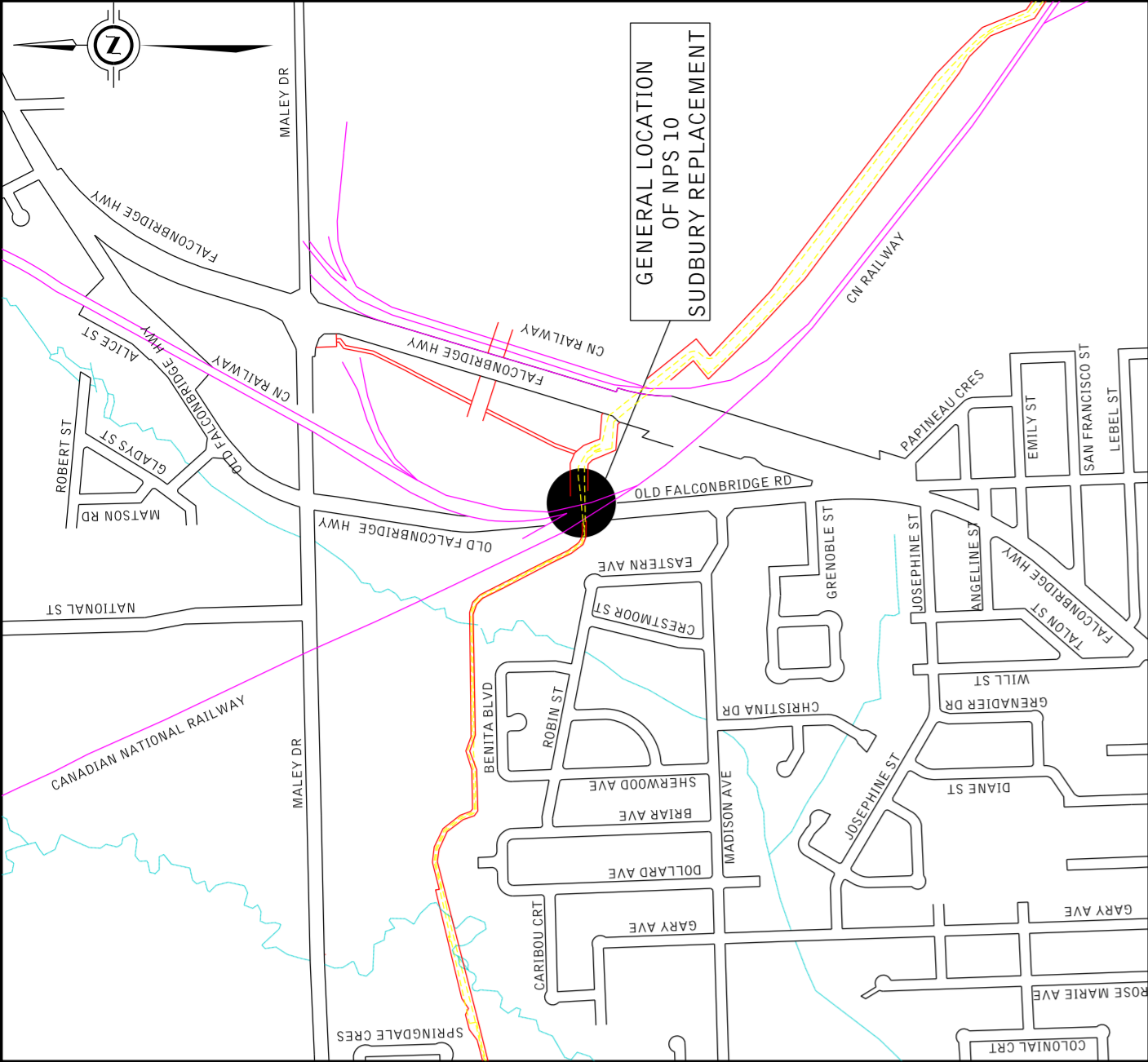
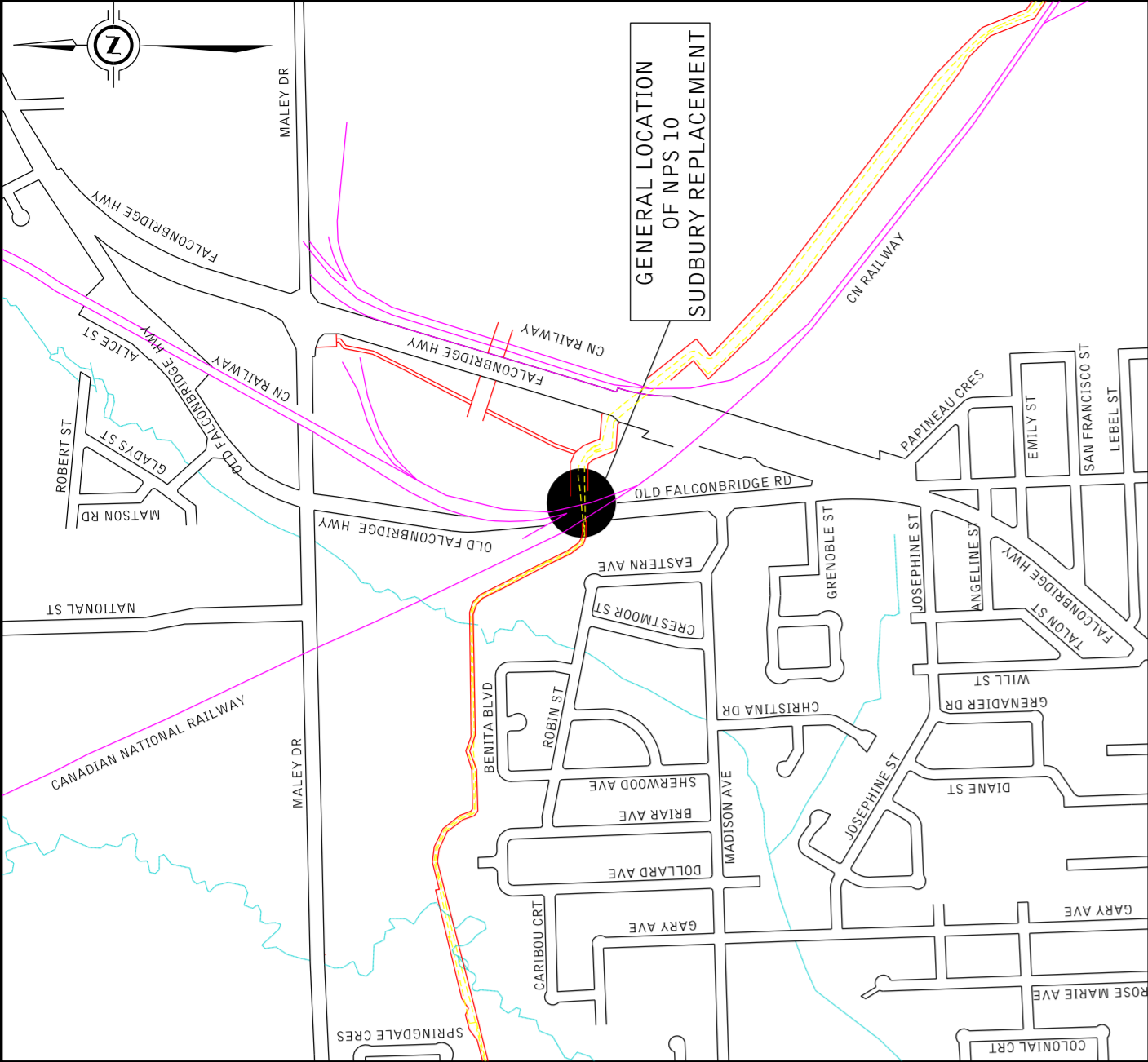
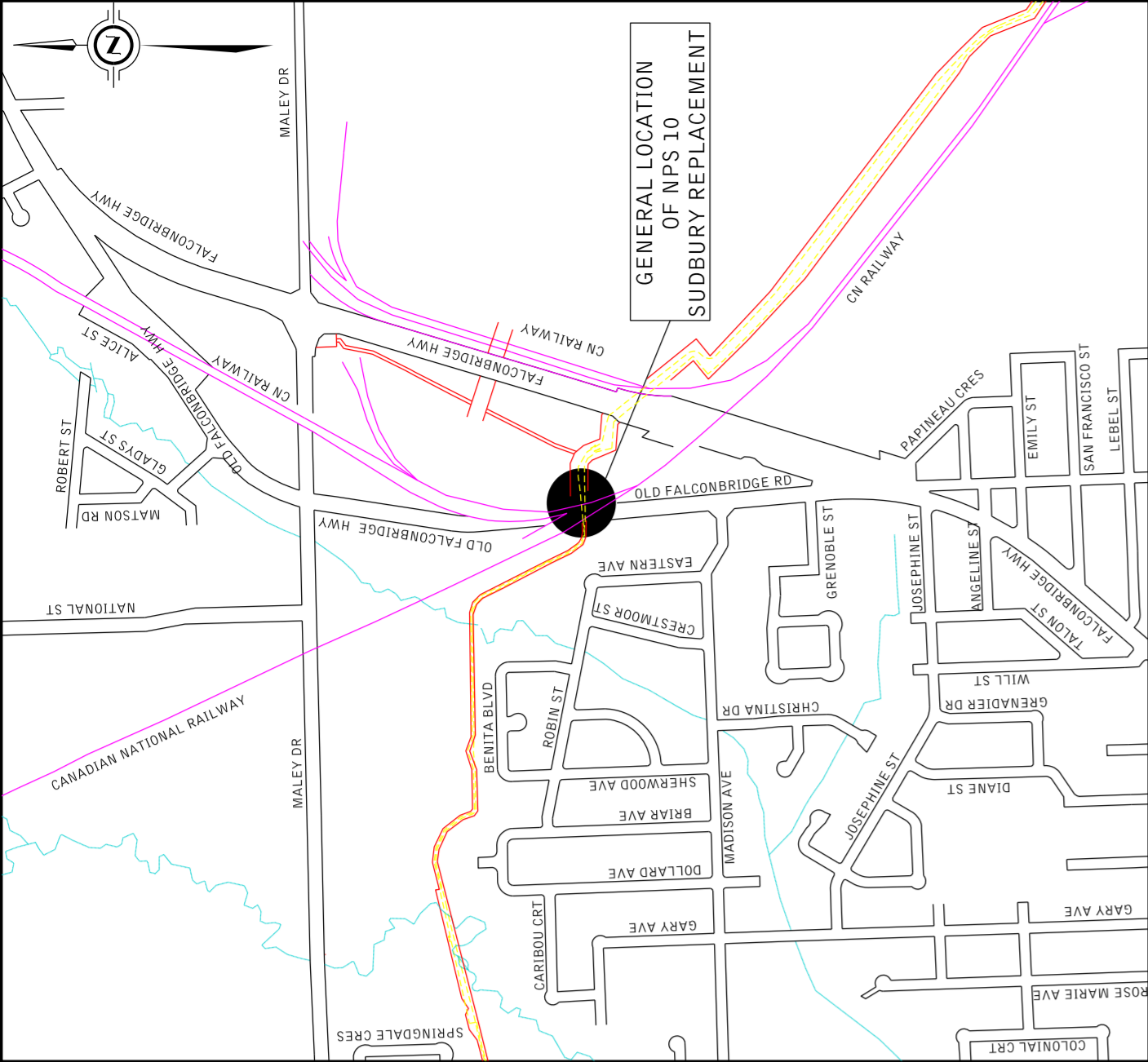
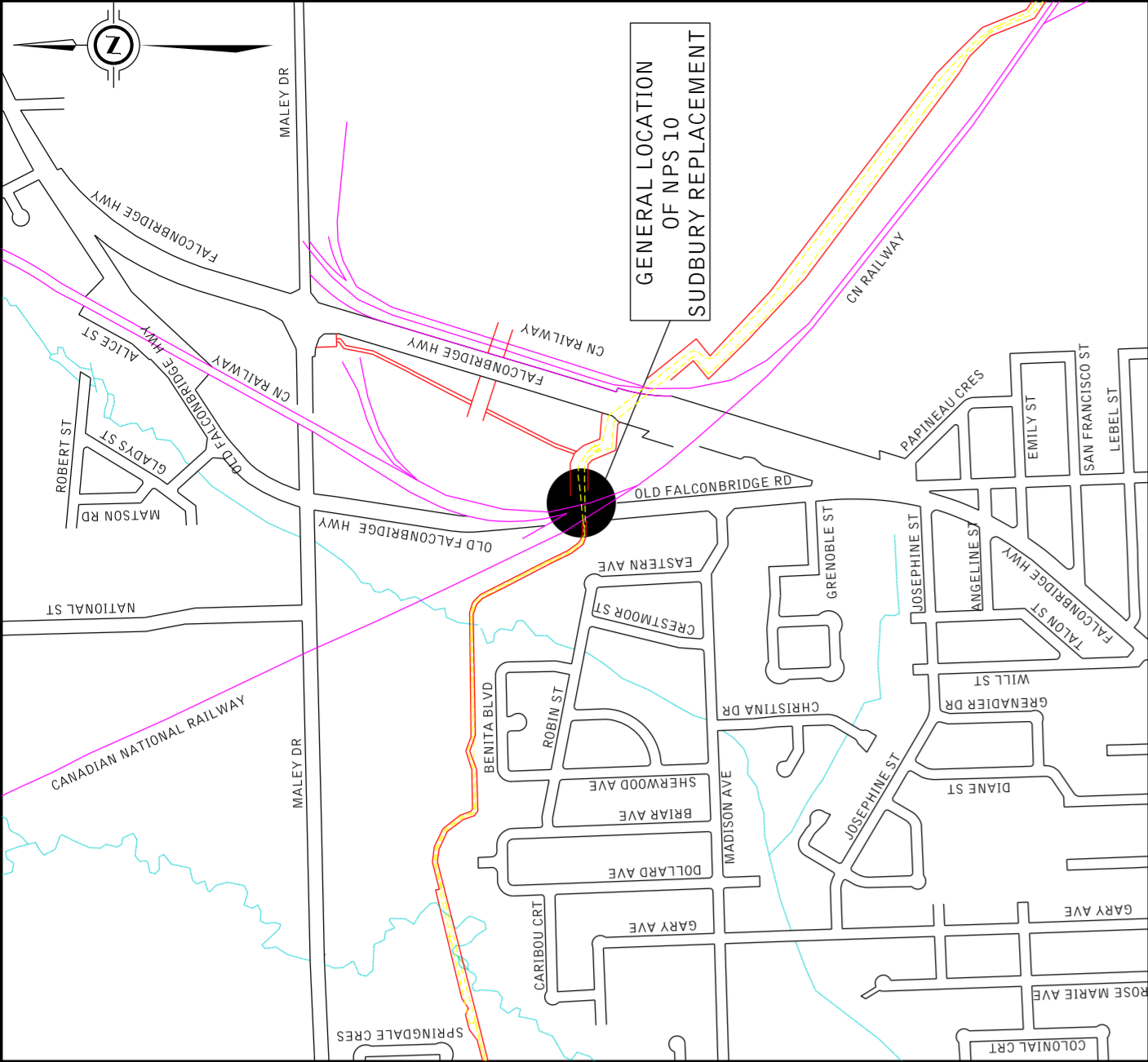
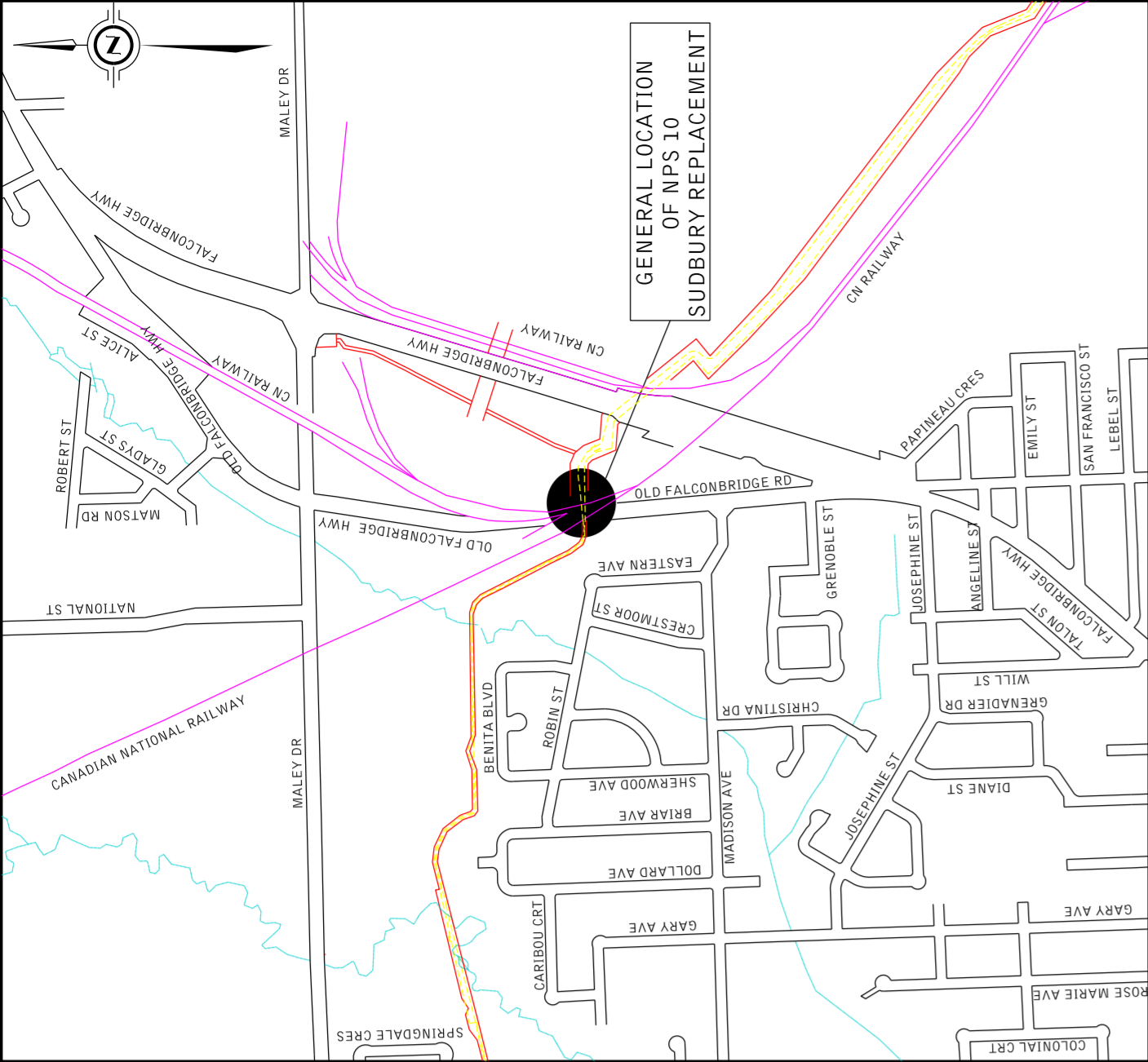
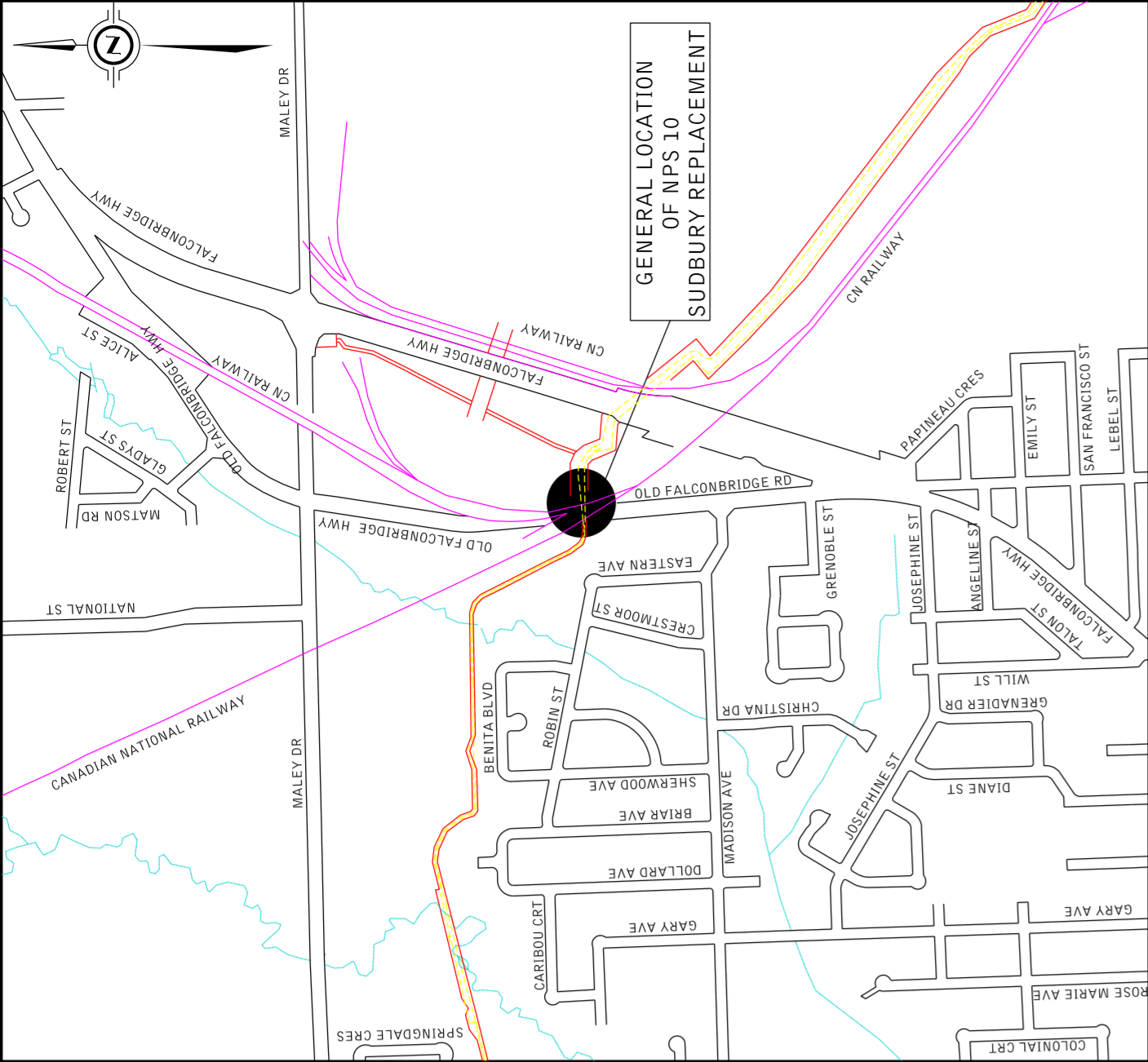
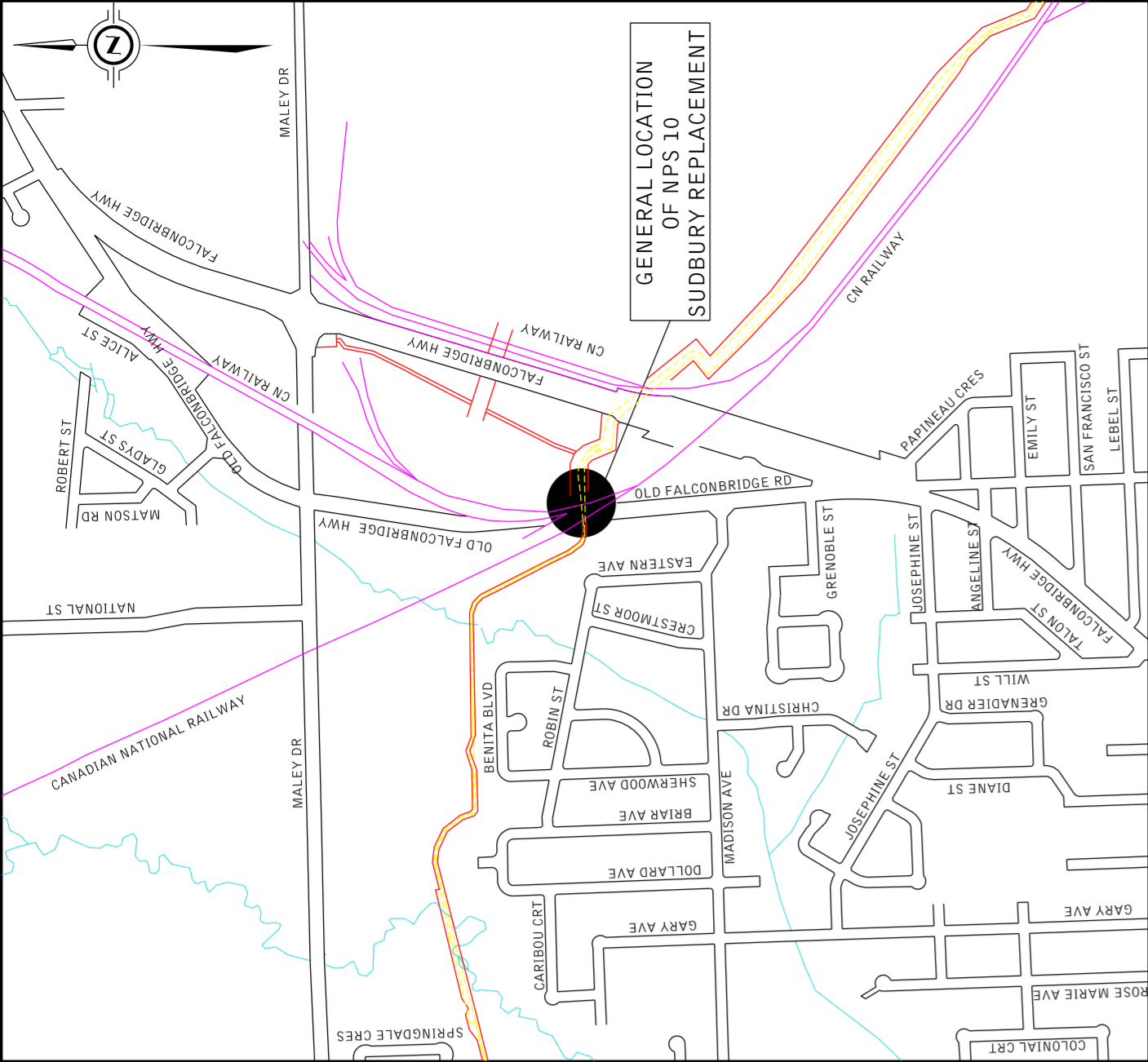
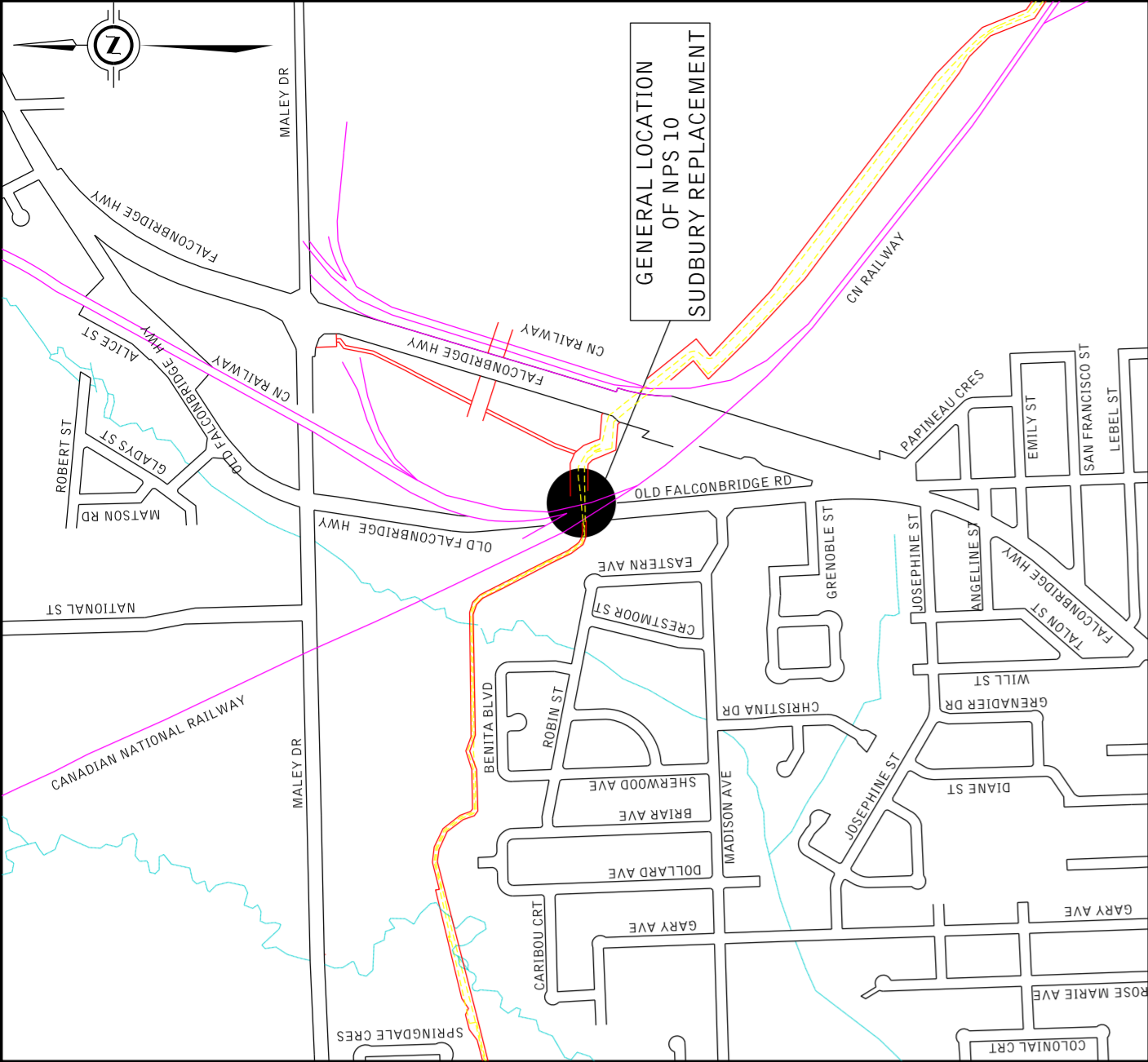
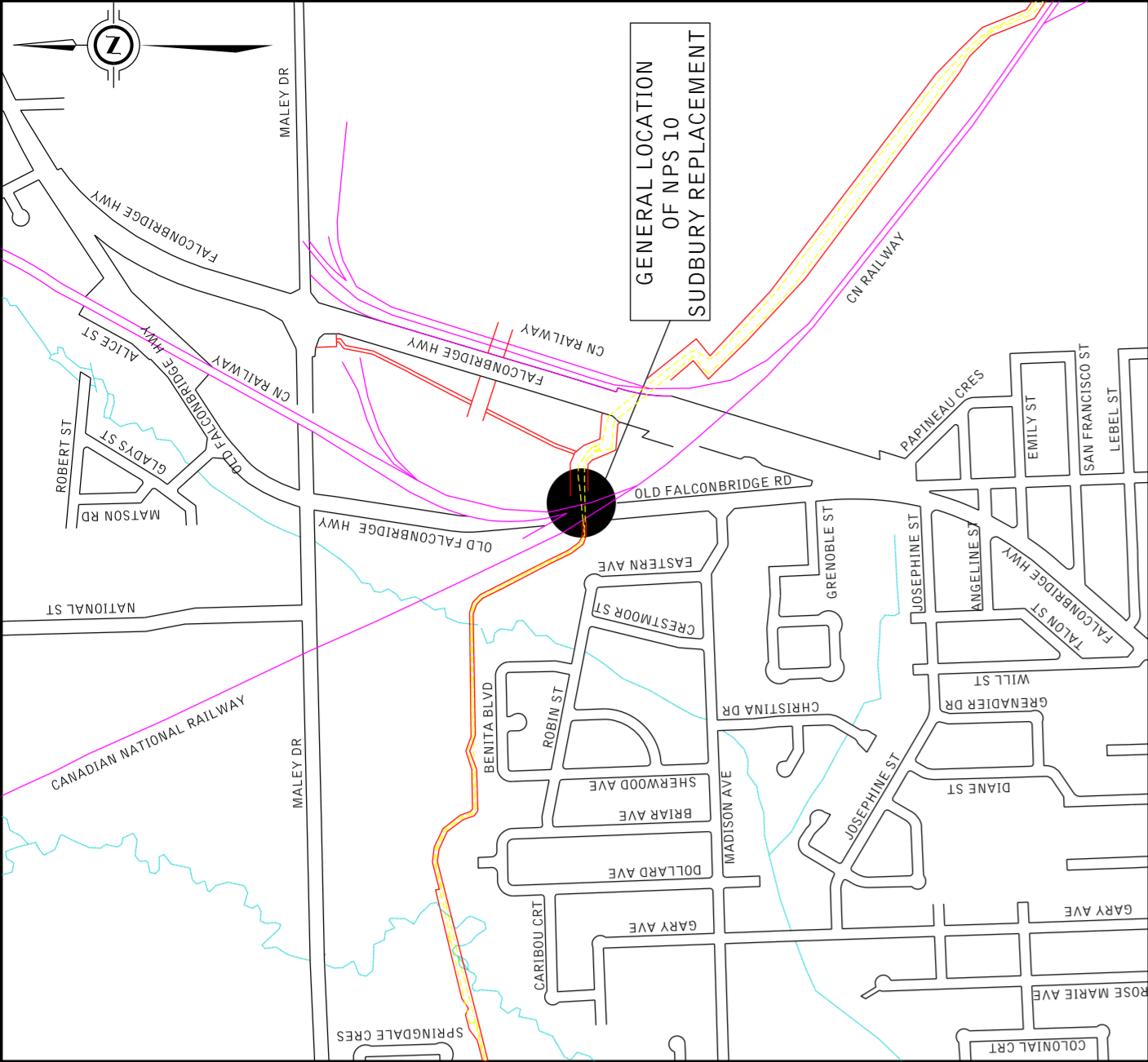
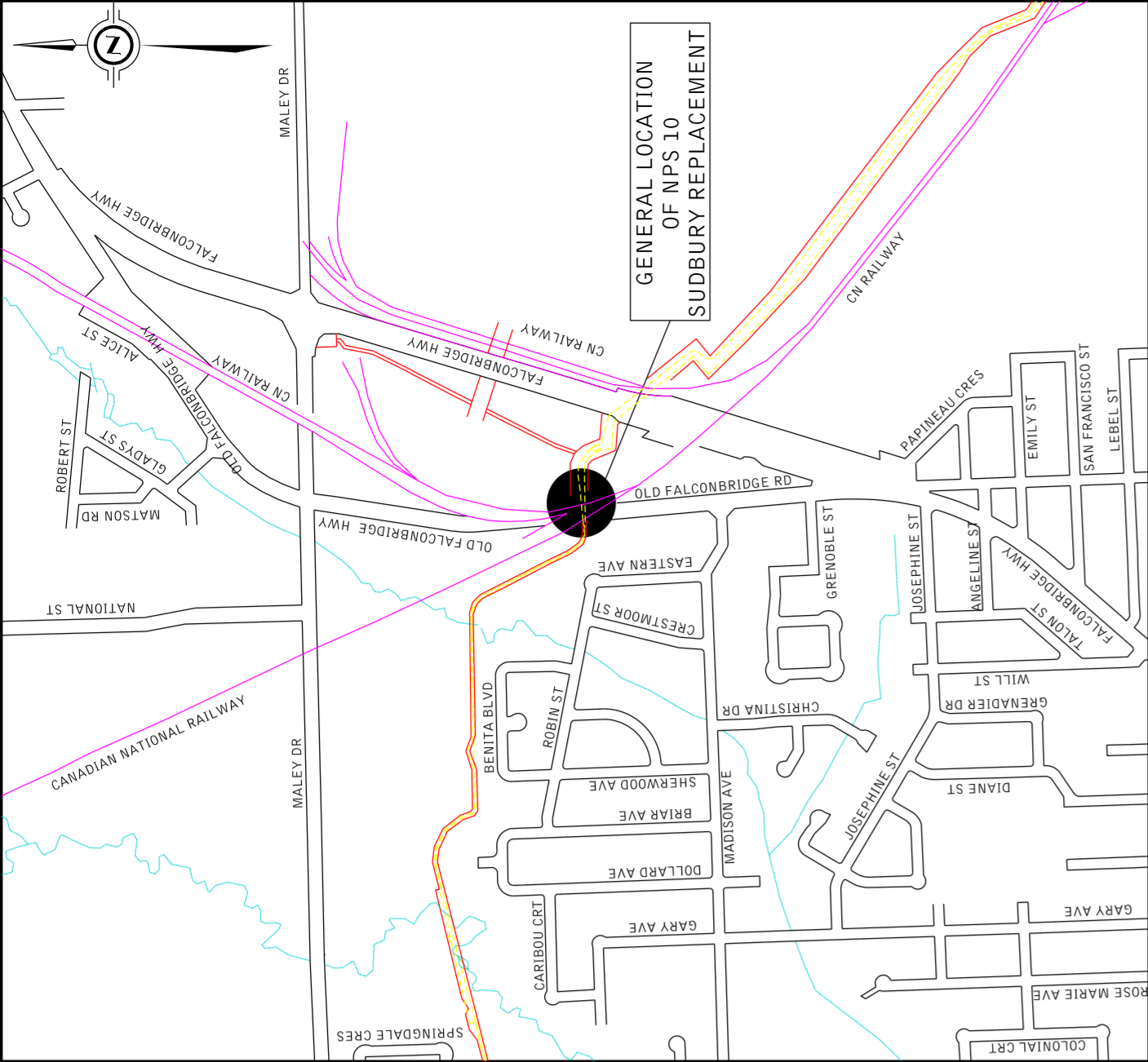
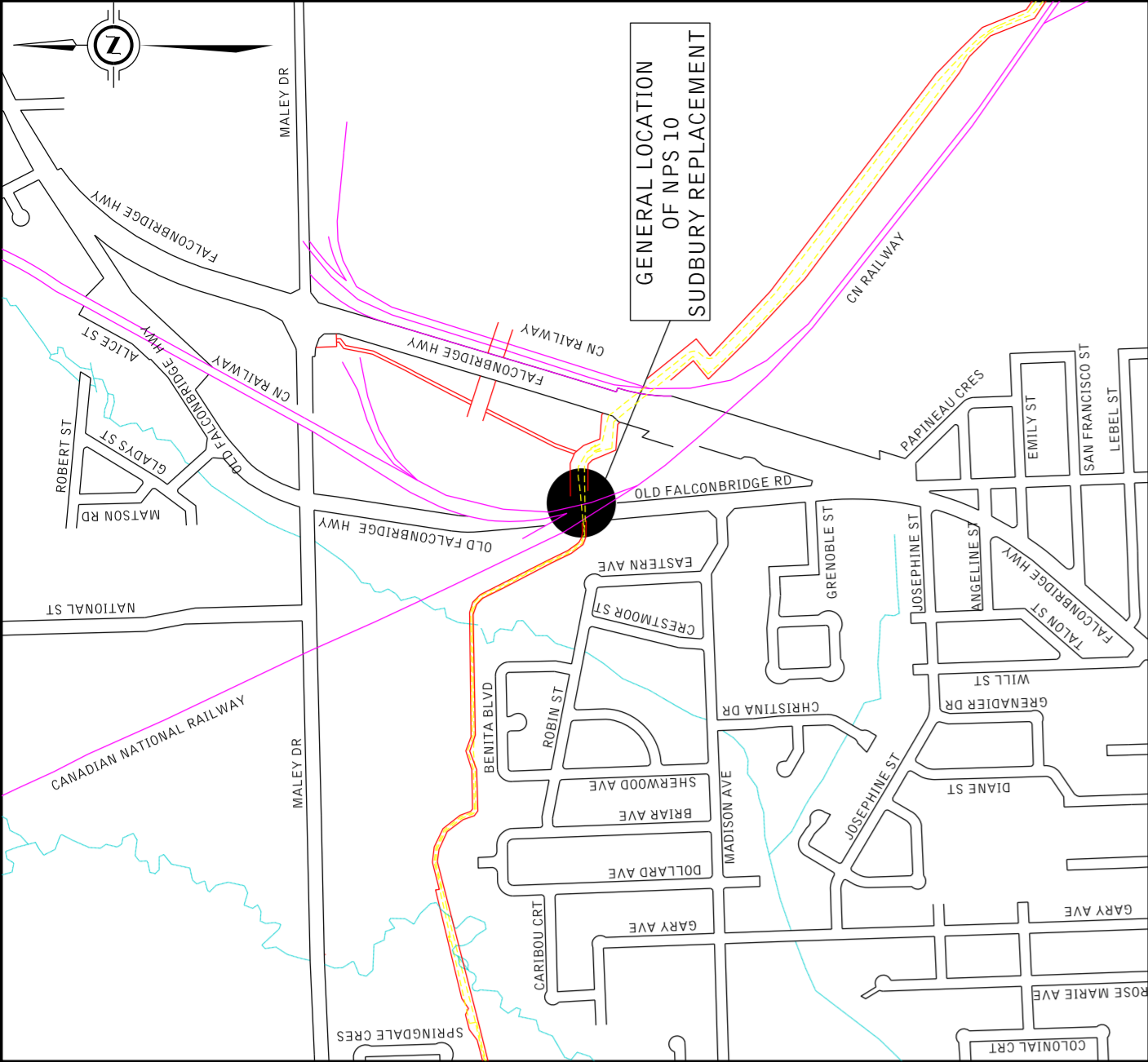
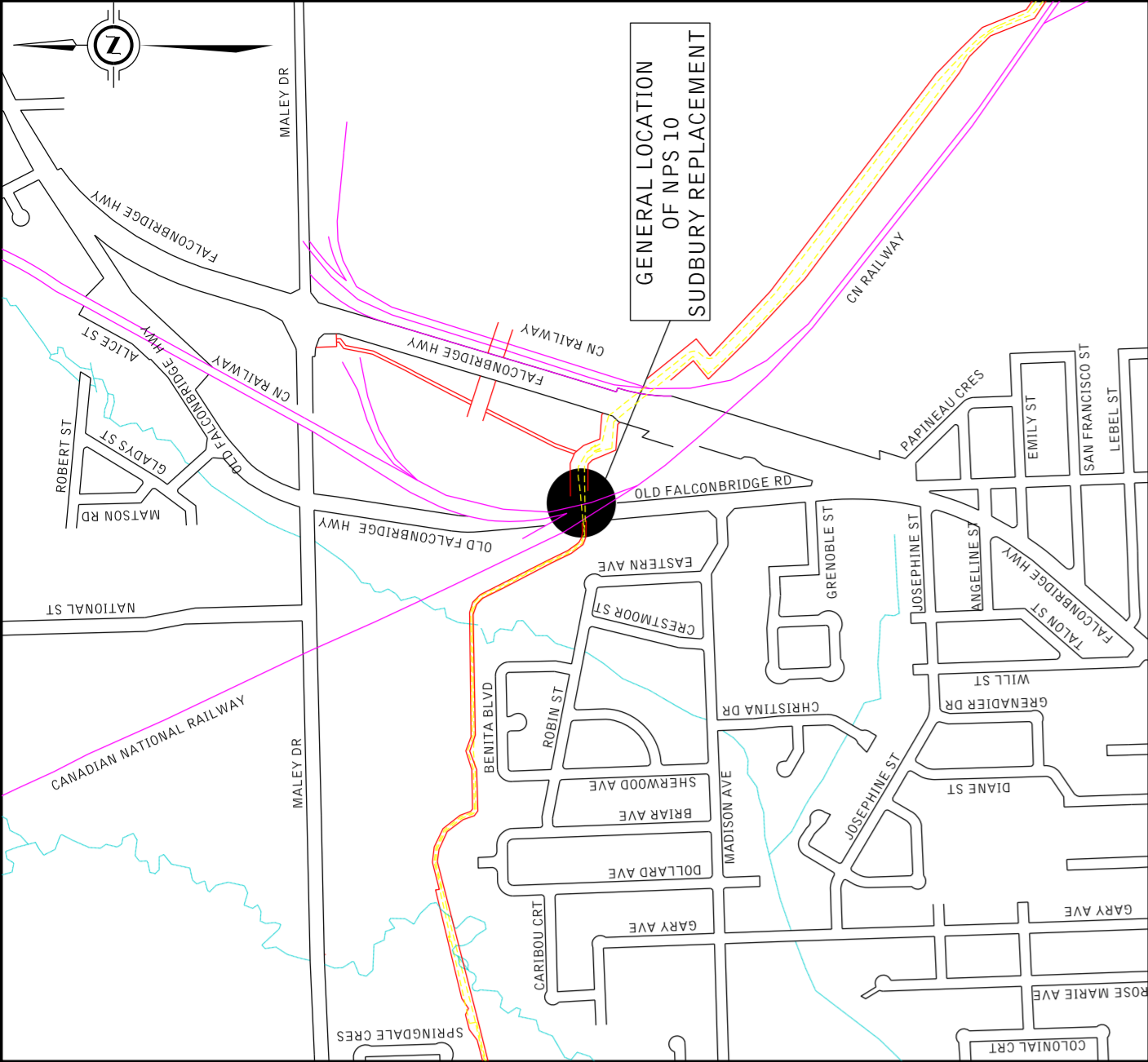
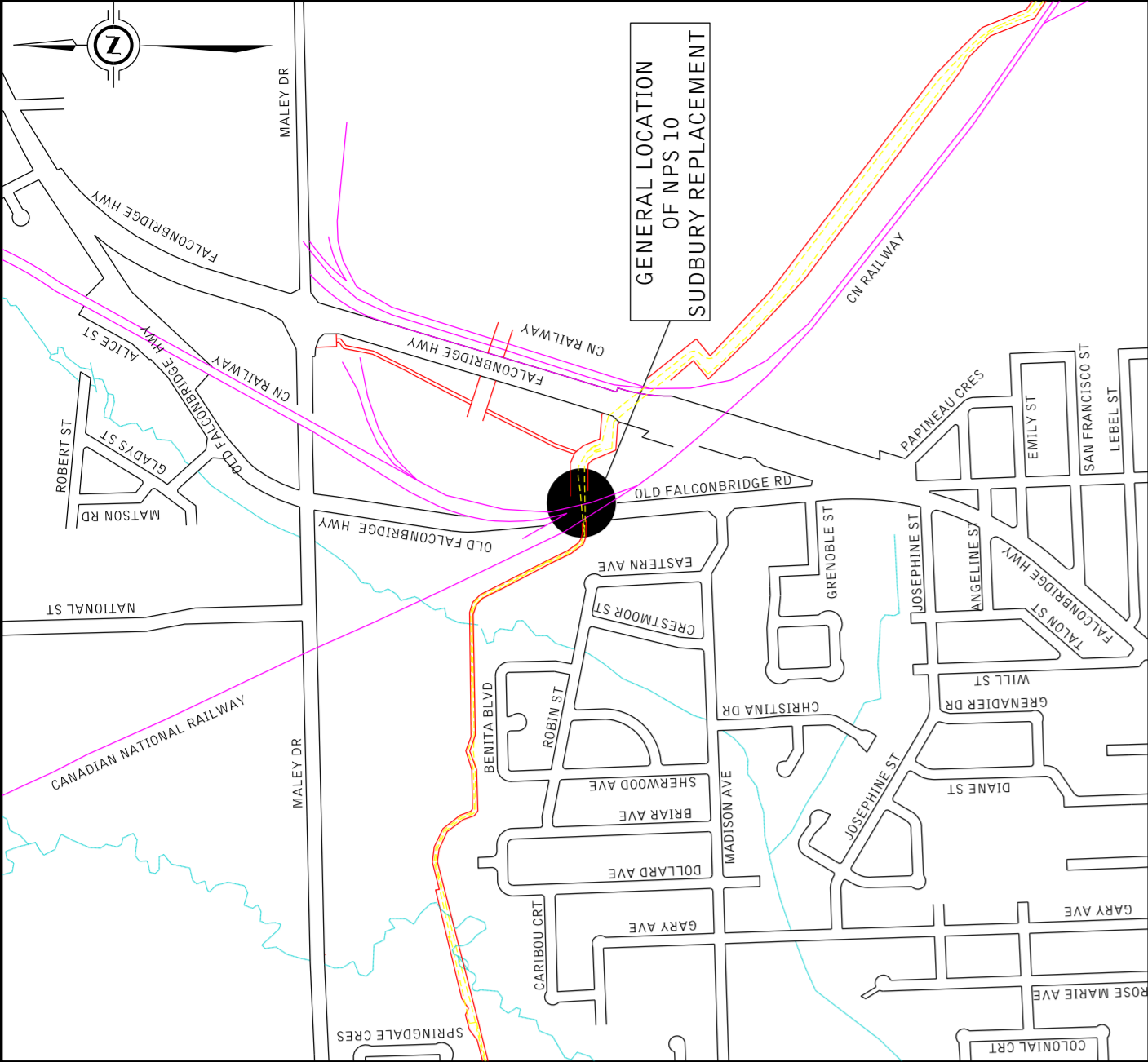
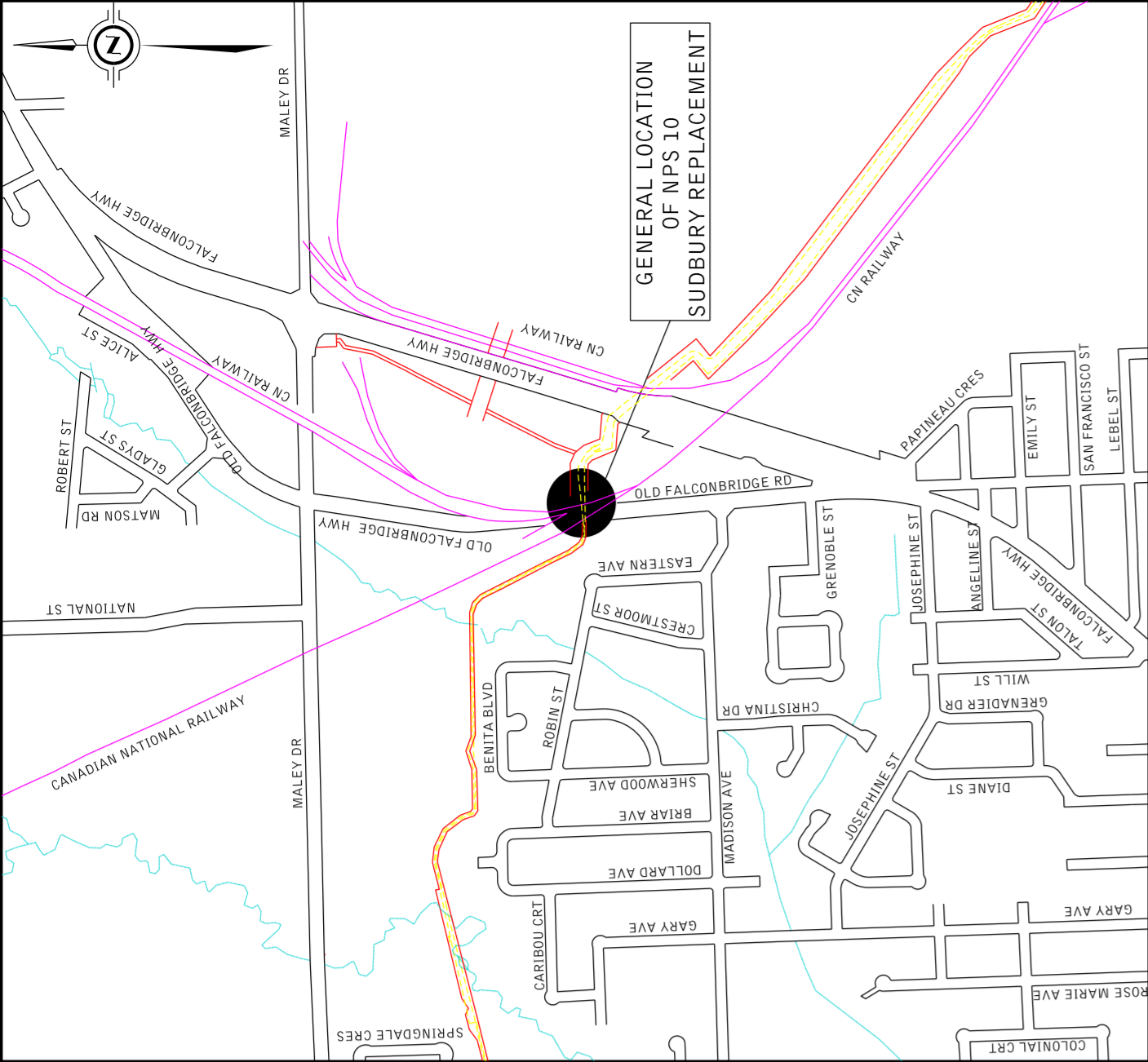
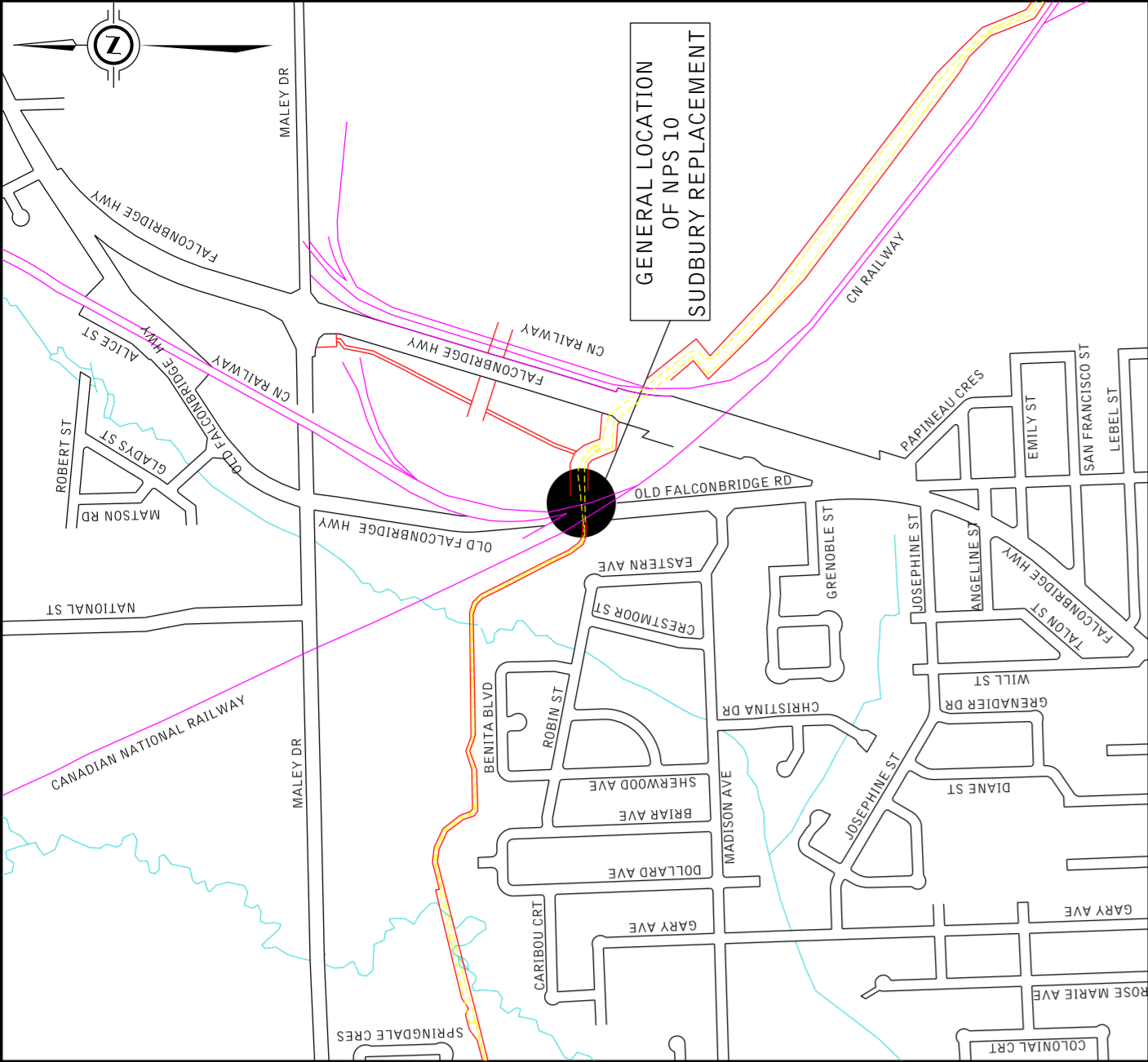
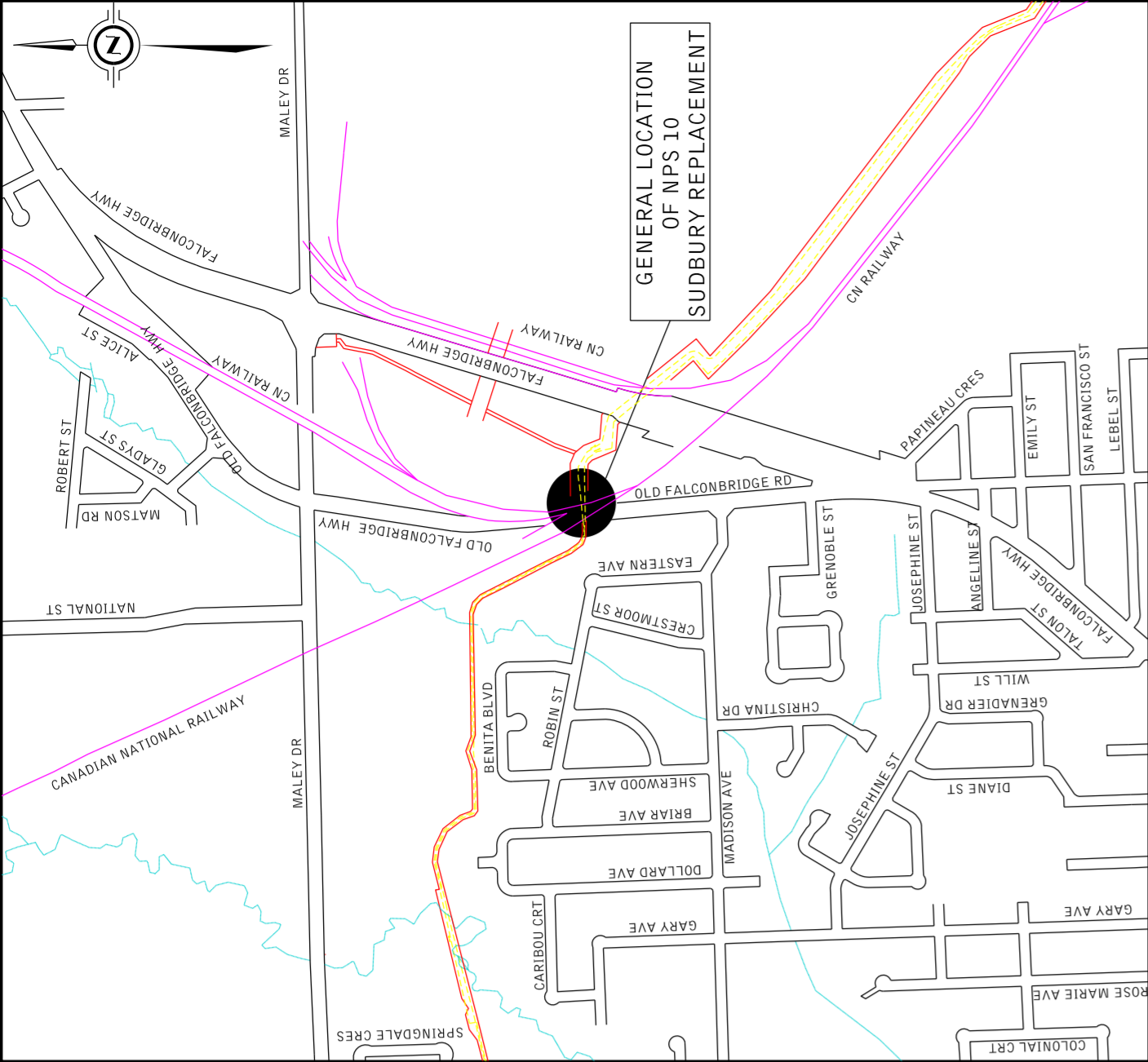
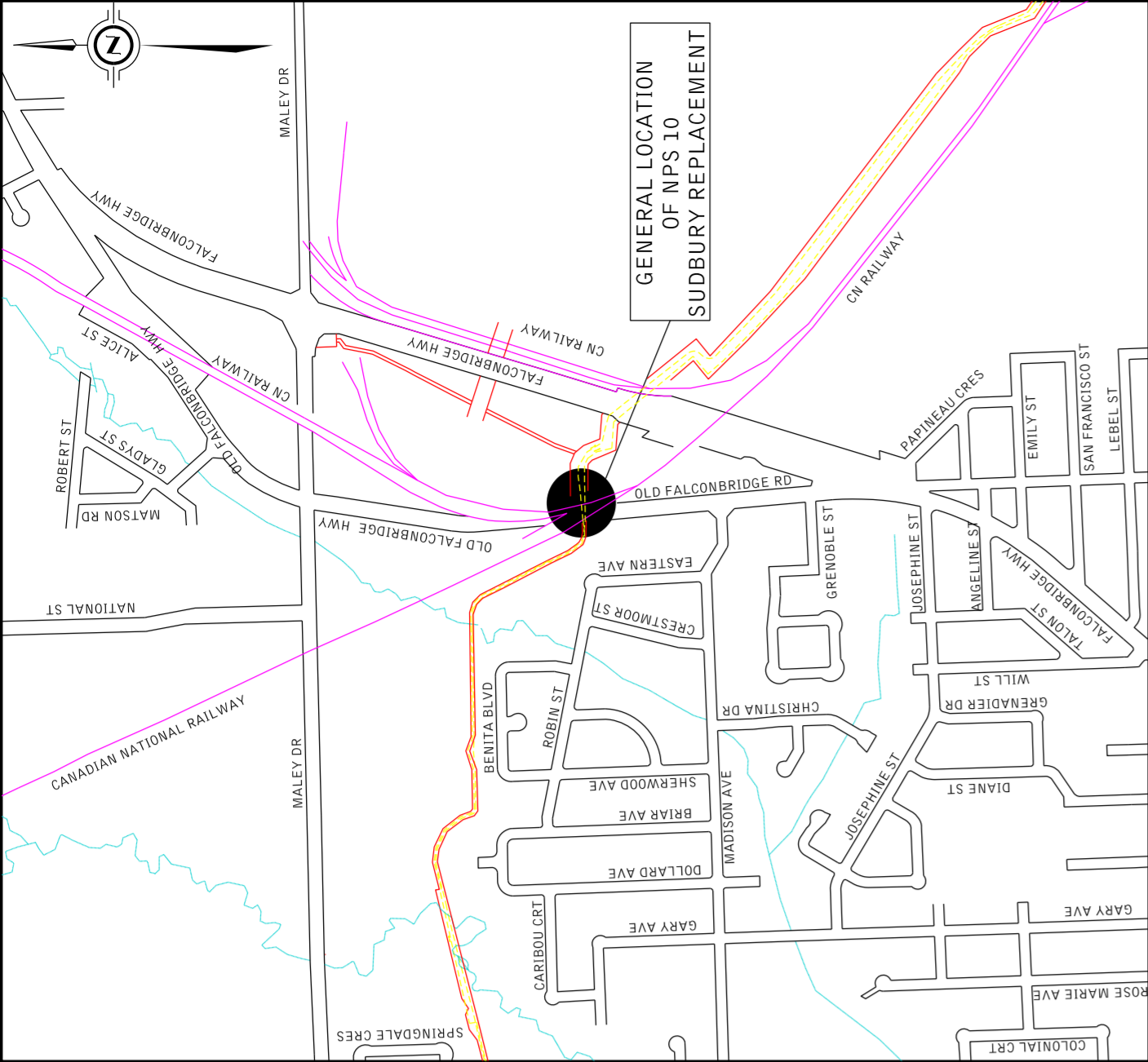
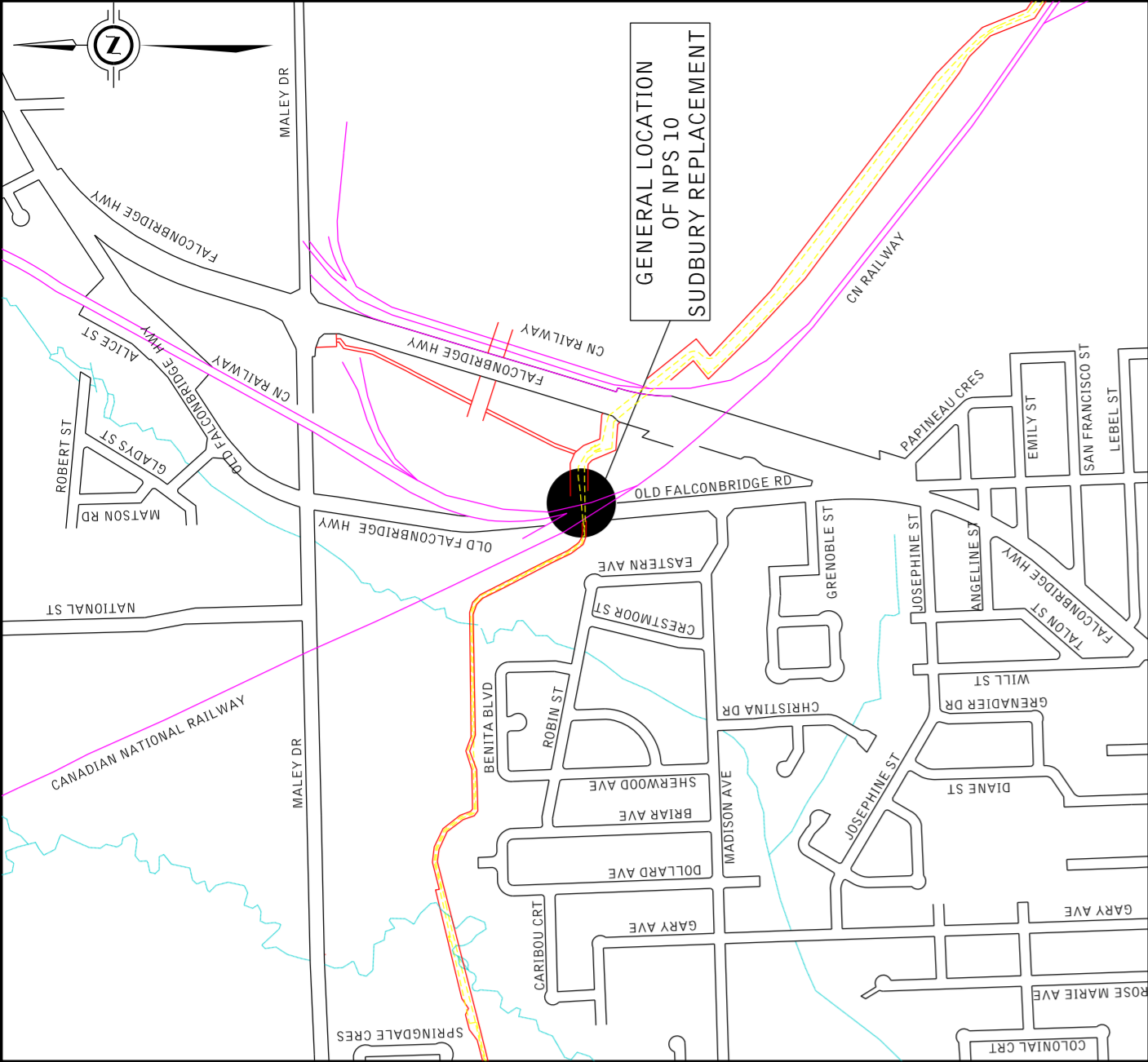
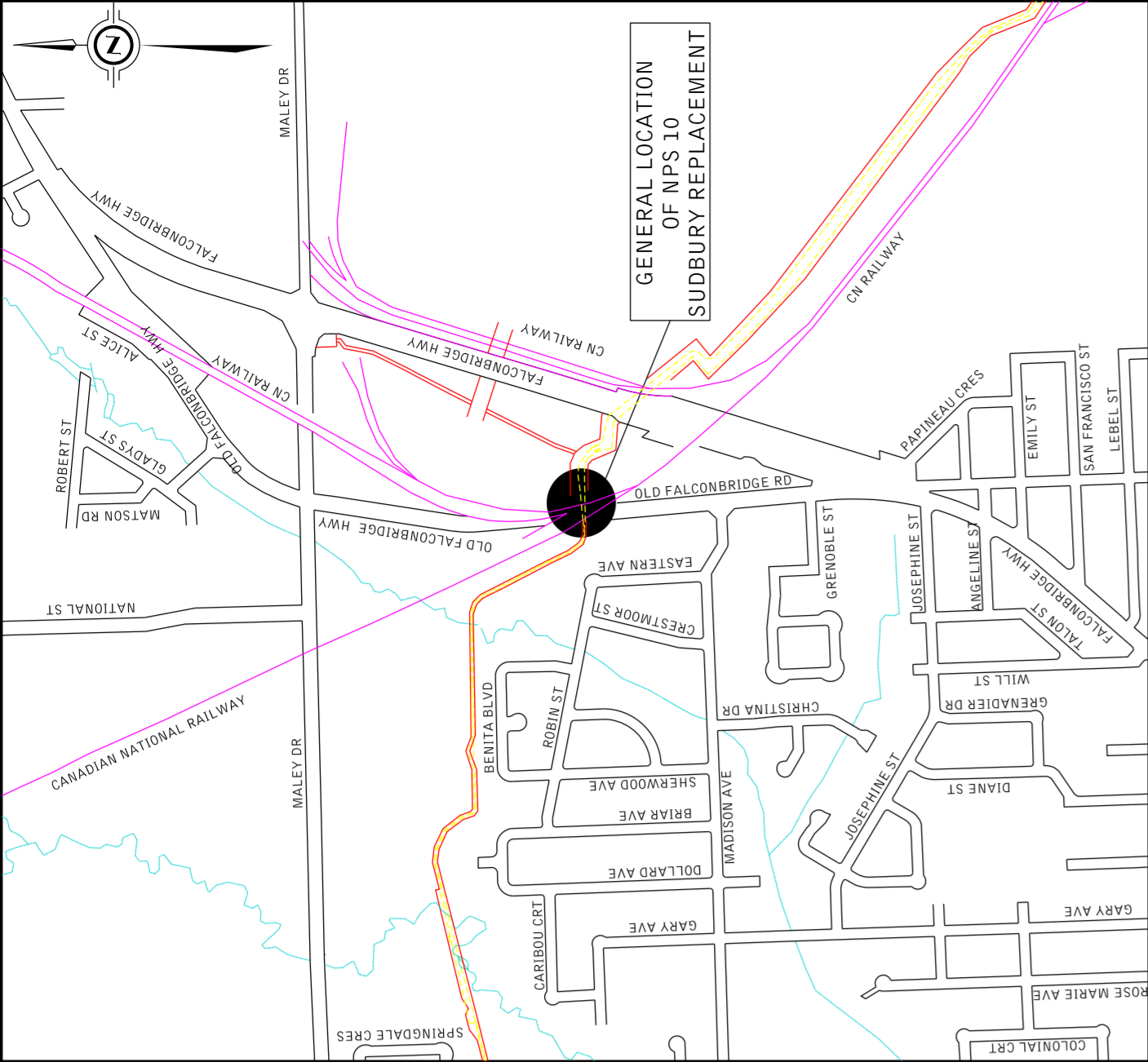
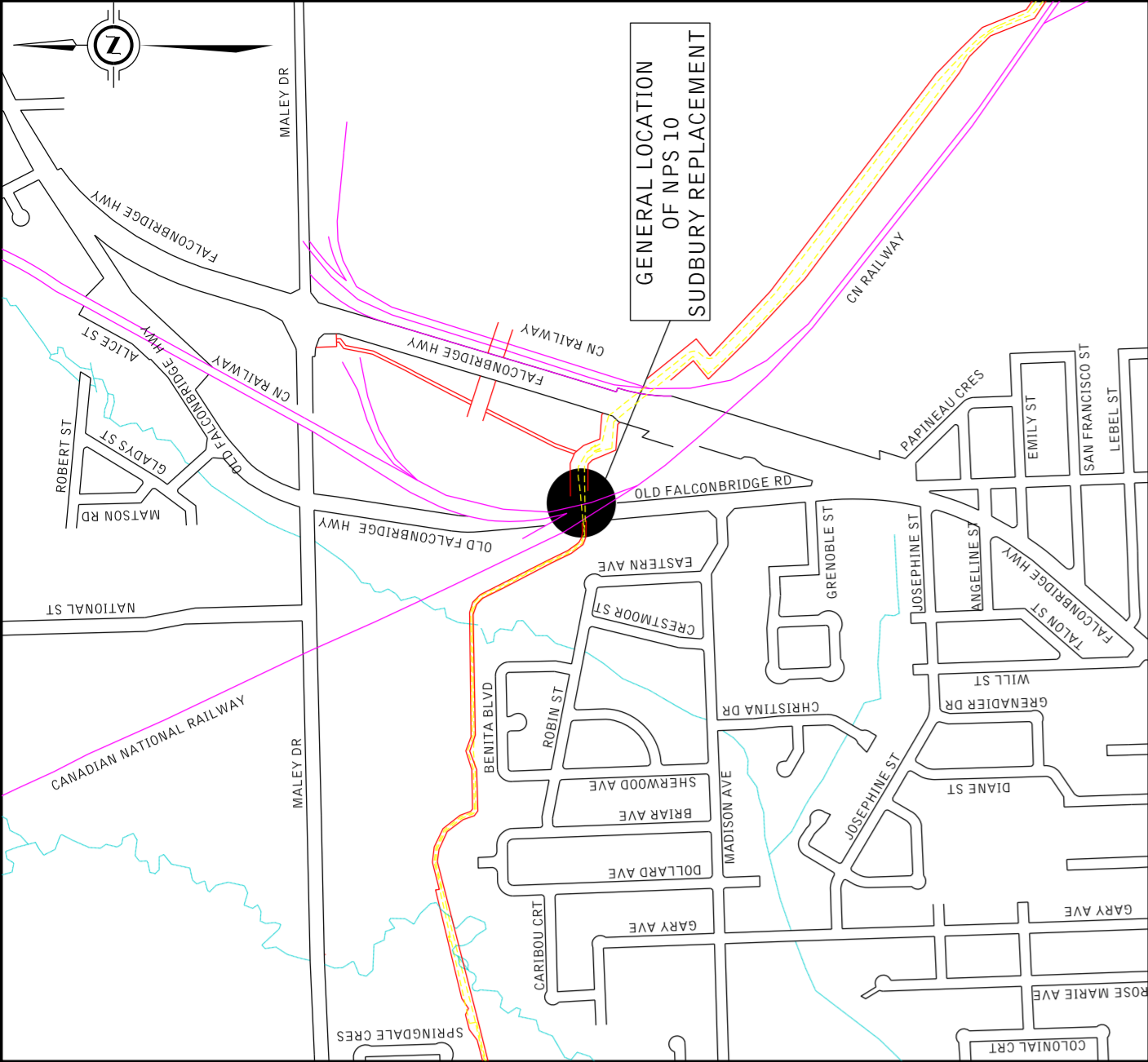
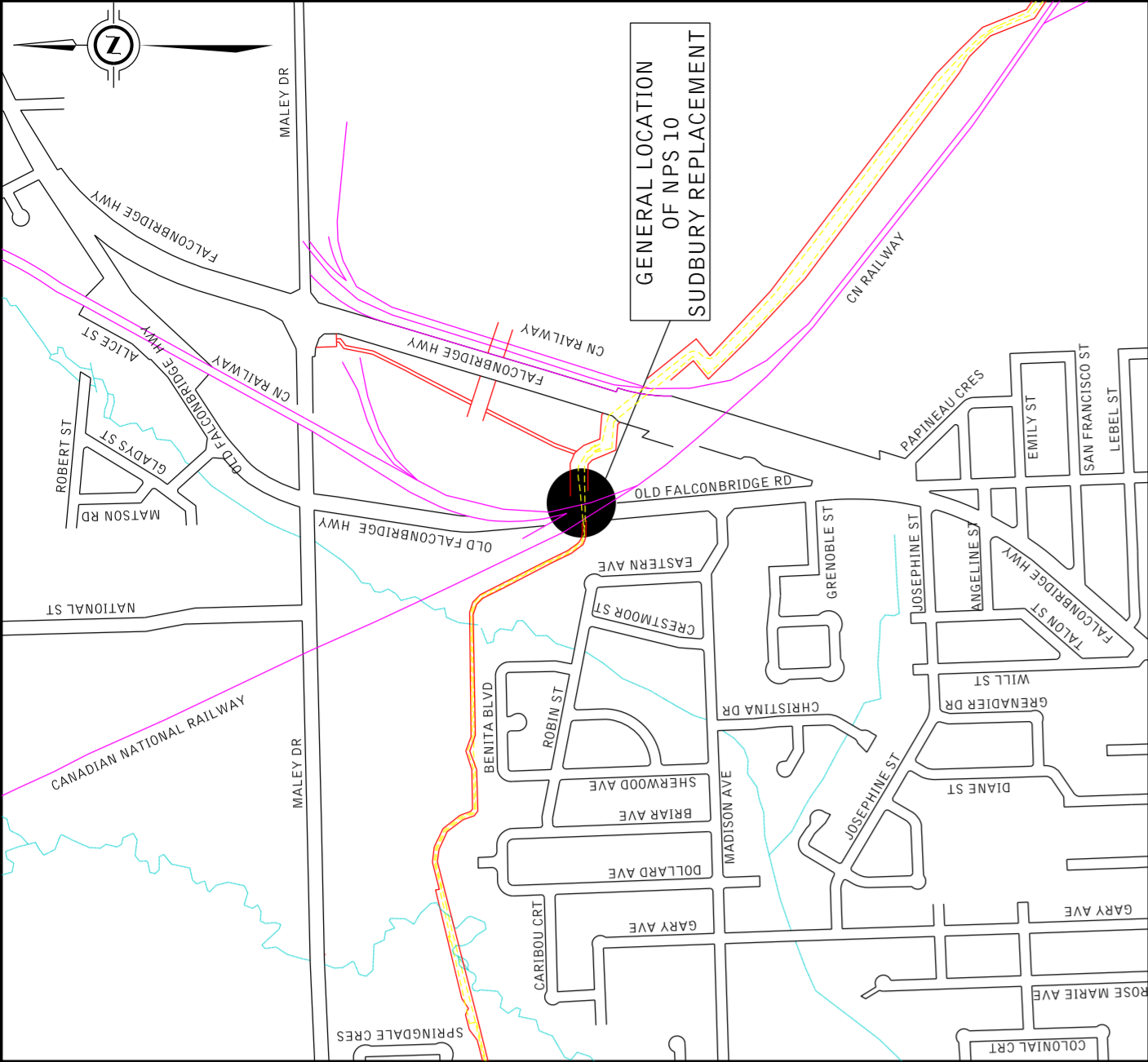
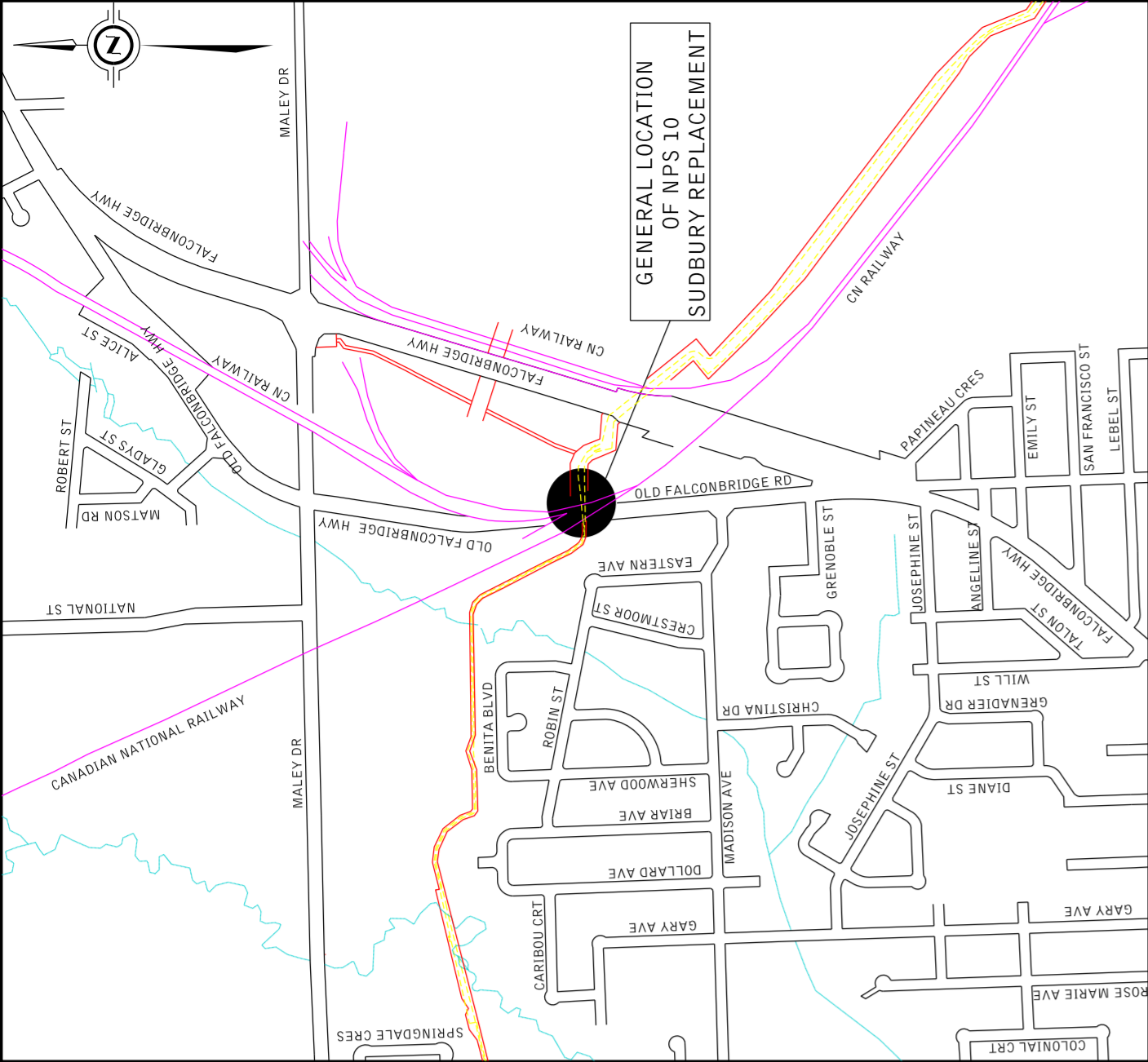
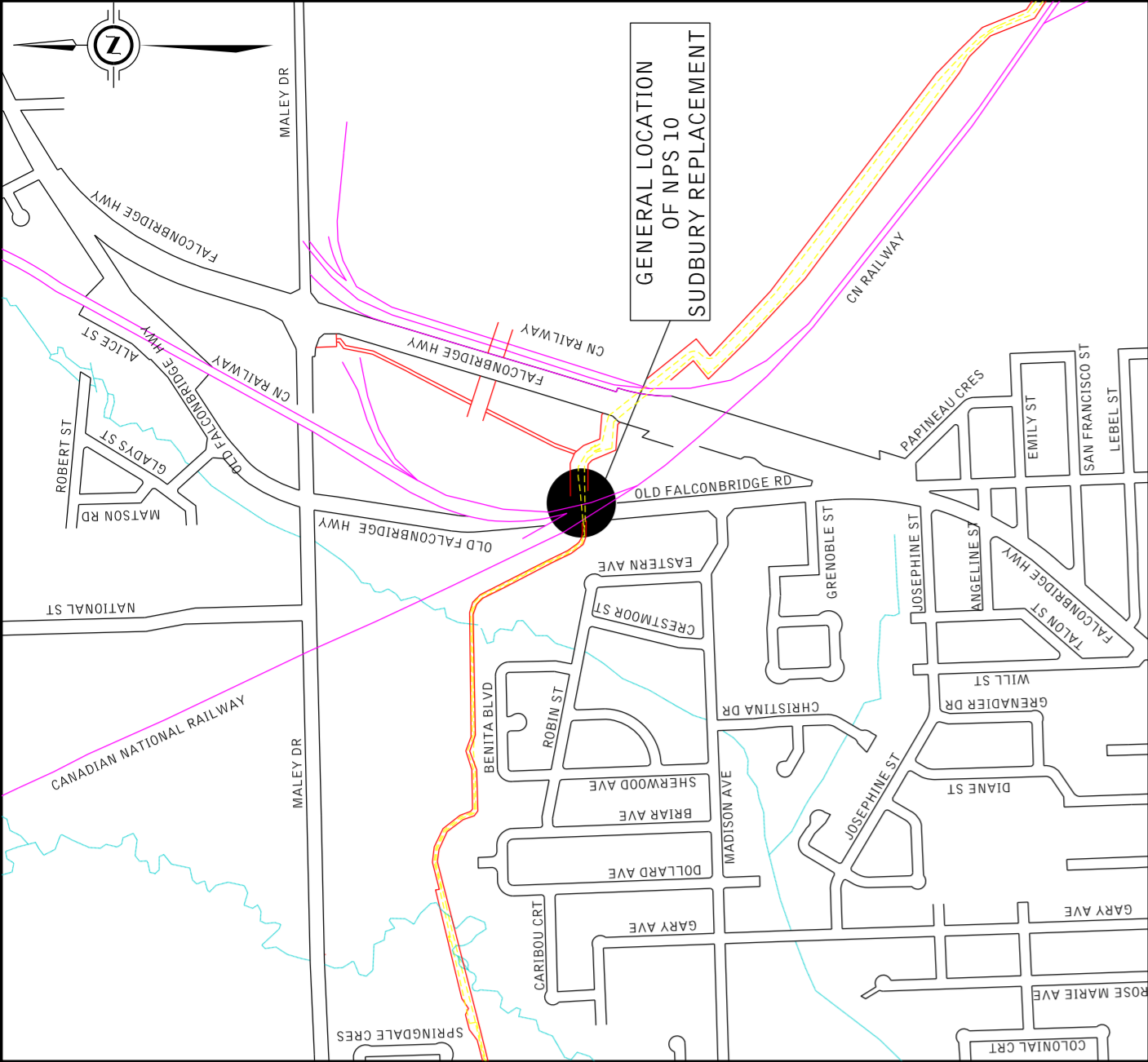
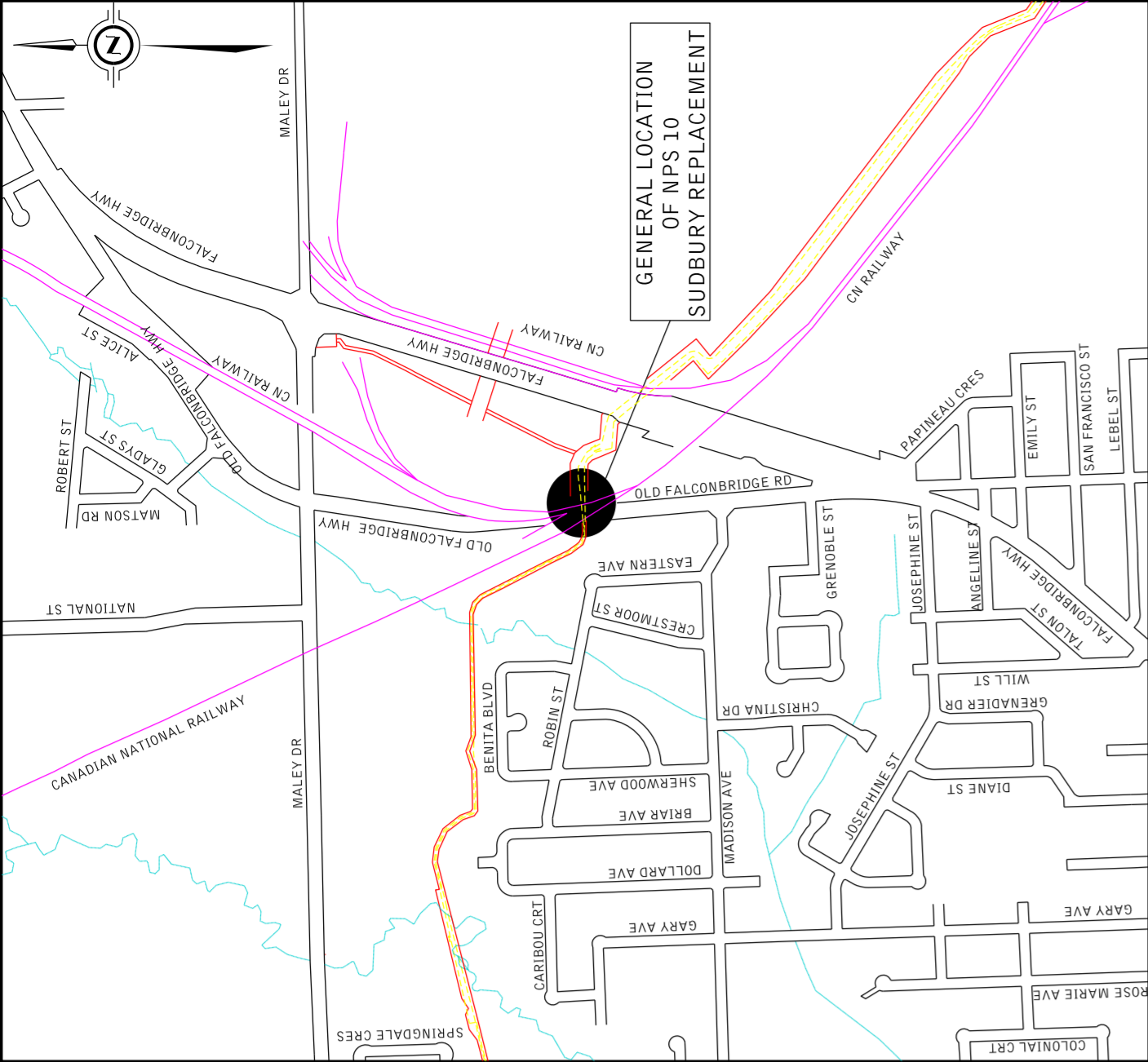
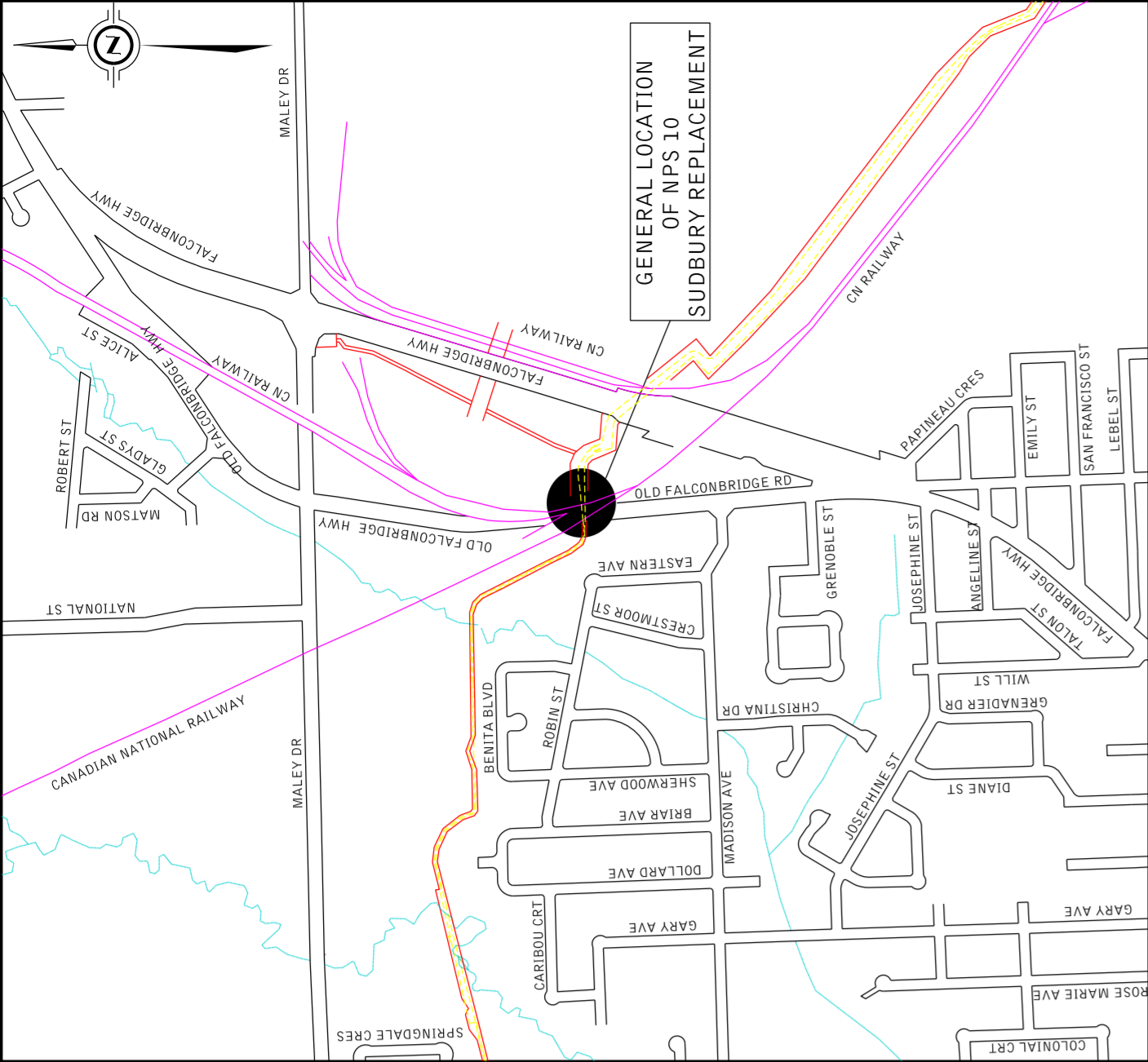
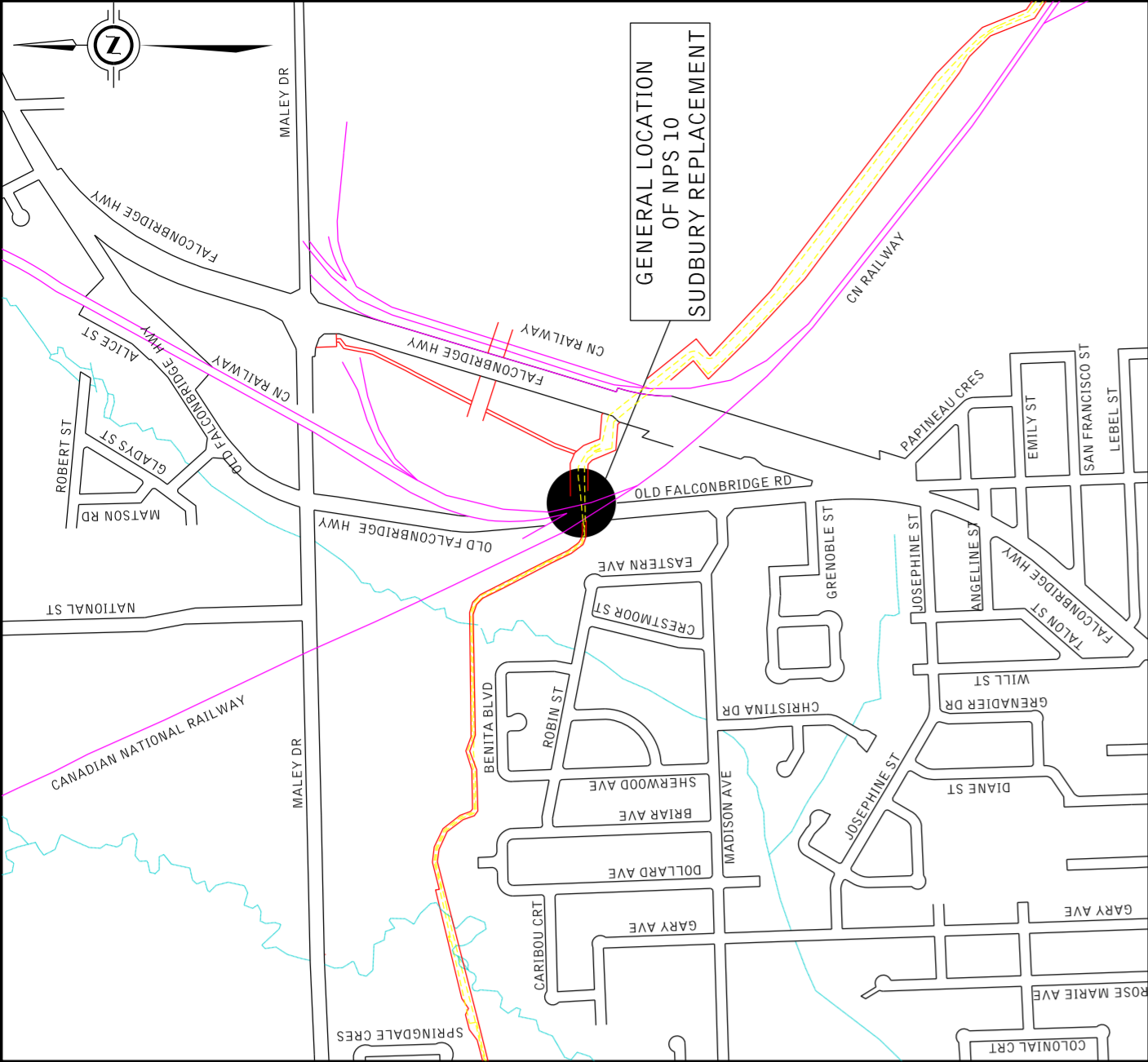
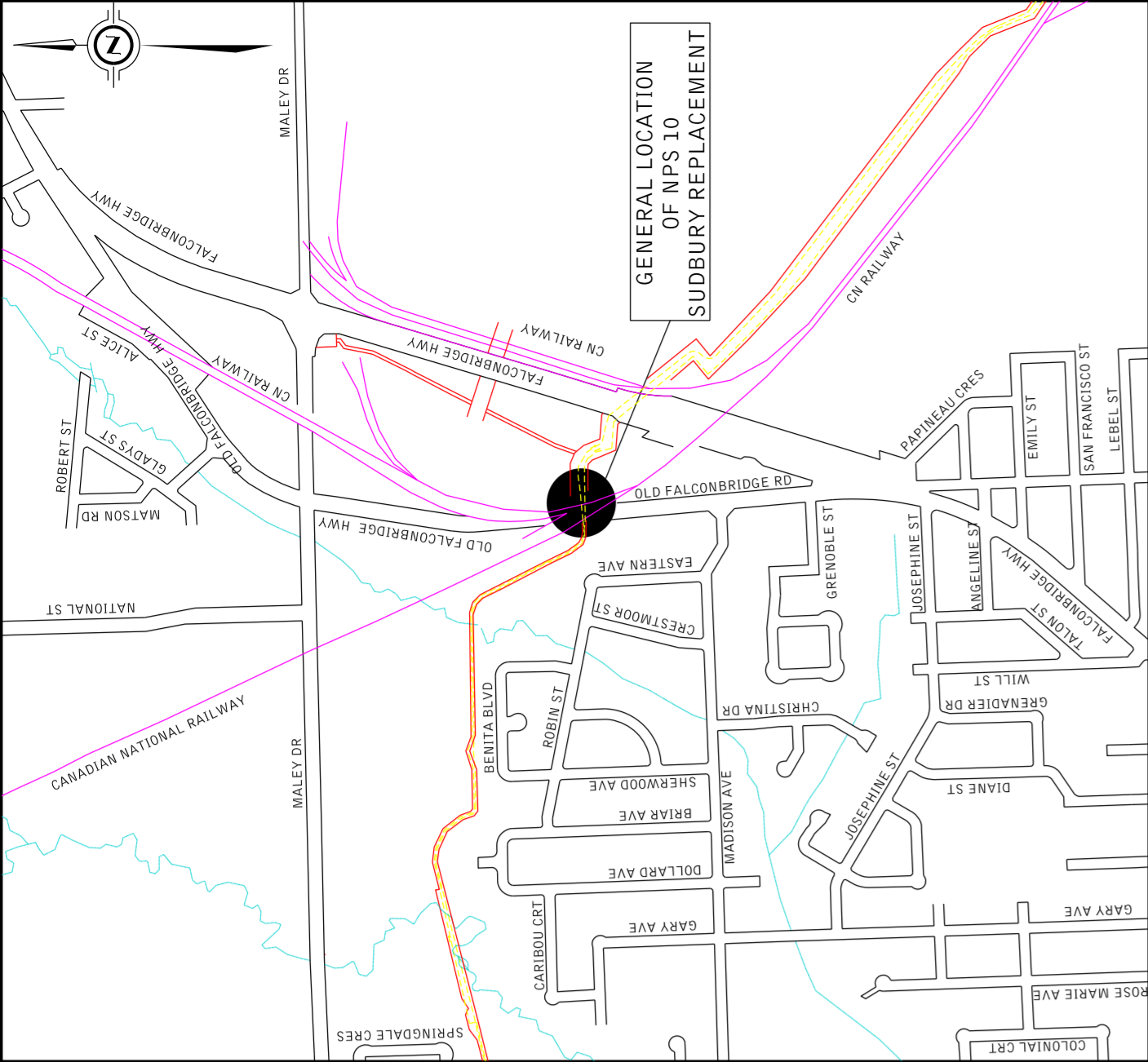
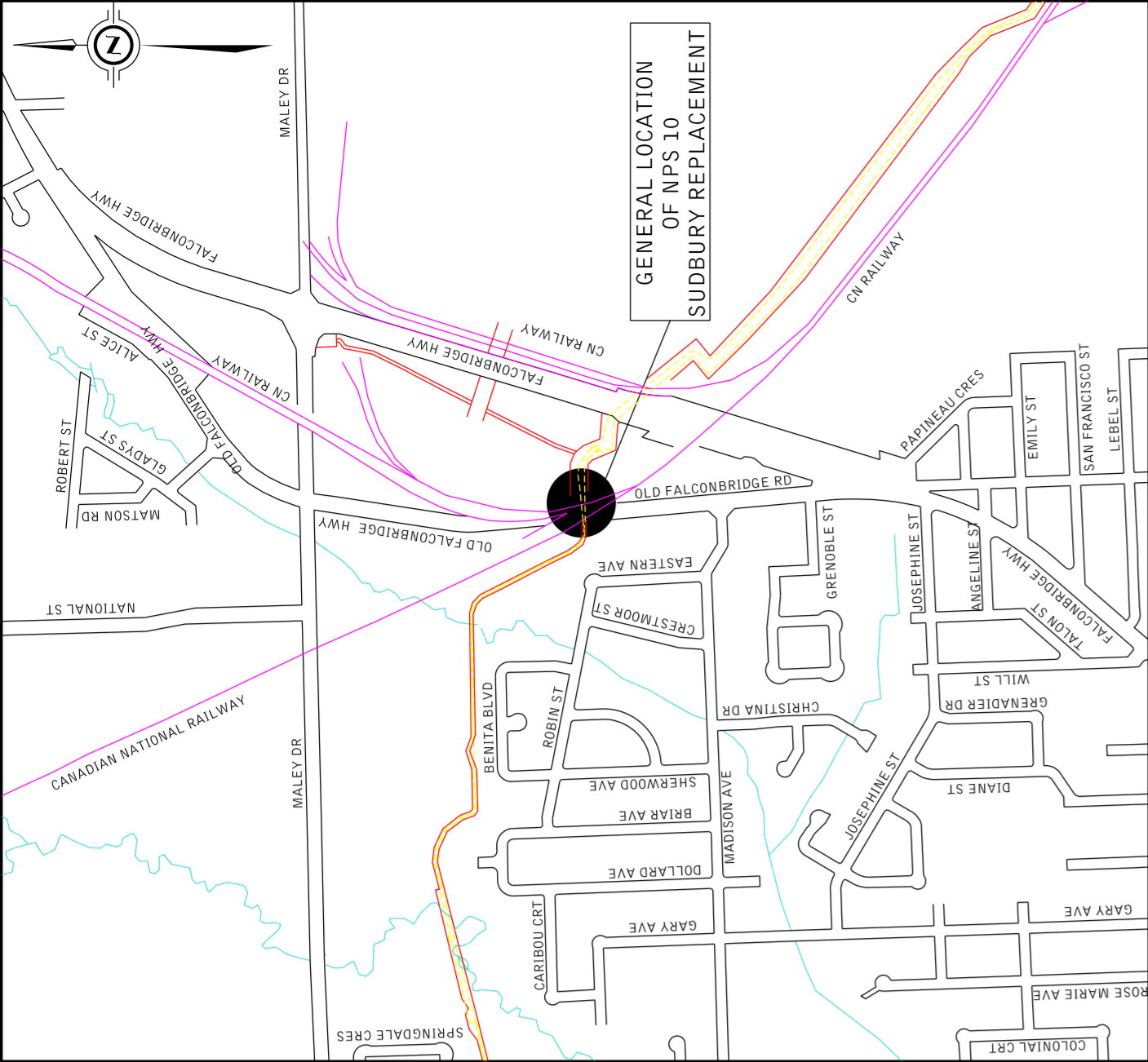
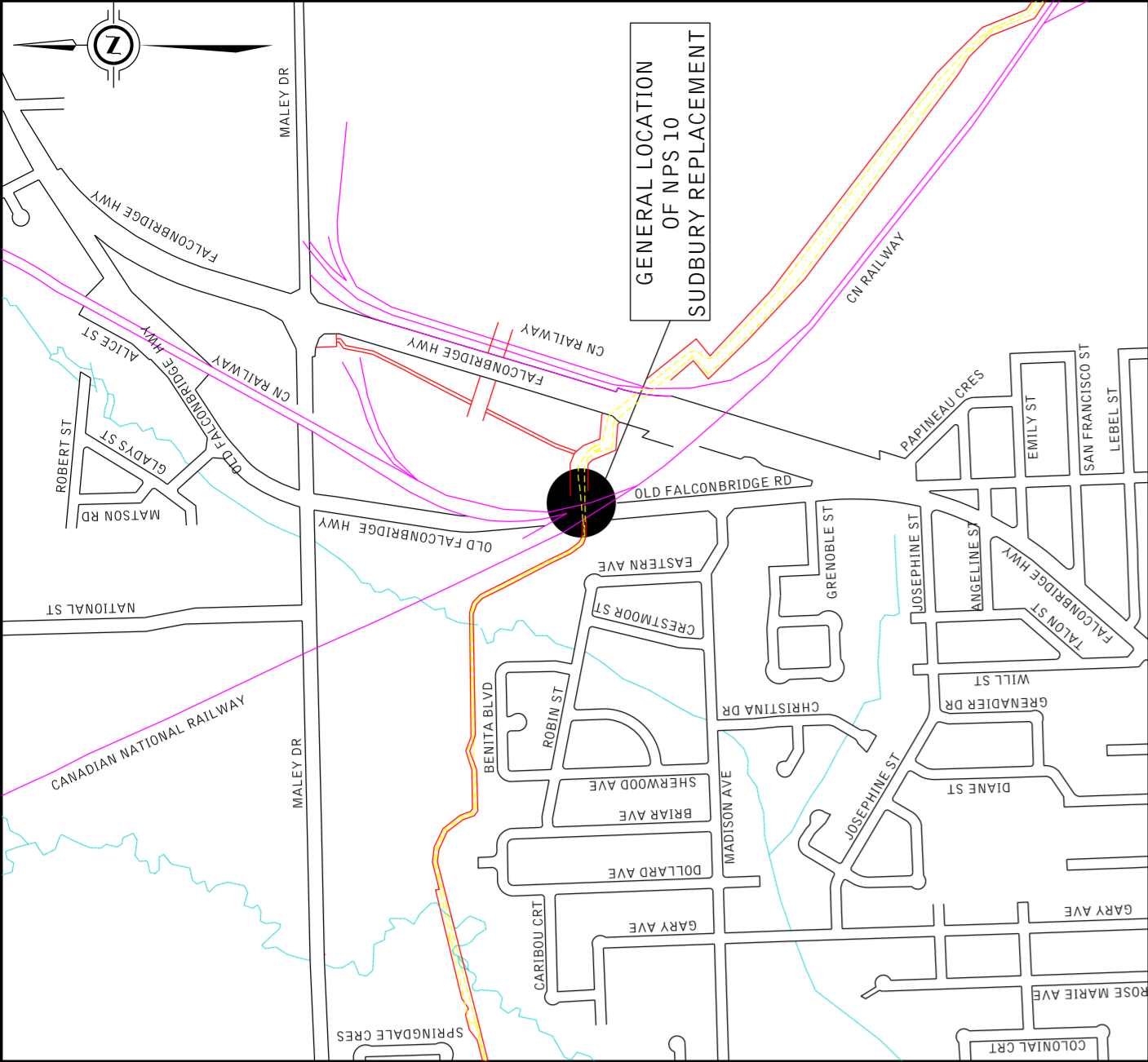
CITY OF GREATER SUDBURY

LOT 9
CONCESSION 6
PIN: 735640020
ALBONA INVESTMENT INC.

PROPOSED APPROXIMATELY 250.0m OF NPS 12
H.P. STEEL PIPE REPLACEMENT SECTION 2 SITE 7



KEY PLAN
N.T.S.



Section One - Falconbridge Road to Malev Drive						
FILE NO.	NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)	MORTGAGE, LIEN/LEASE, EASEMENT (M) (L) (E)	
T380-069	Albona Investments (Rainbow Concrete) 2477 Malev Drive Sudbury, ON P2A 4R7	PIN 73564-0020 Pcl 45401 Sec Ses Sro; Pt Lt 9 Con 6 Neelon Pt 1 To 15 53R8738; S/T Lt147574(Partially Released Under L1336565), Lt154139, Lt179385, L1336566, L1398124, L1489032; Greater Sudbury		73 x 57 53 x 40	(e) Hydro One Networks Inc.	
T380-071	The Corporation of the City of Sudbury 200 Brady Street Sudbury, ON P3A 5P3	PIN 73565-0931 Pcl 18051A Sec Ses; Pt Lt 10 Con 6 Neelon As In Lt122563; S/T Lt147324, Lt77666, Lt79444, L186480, L186481; Greater Sudbury		10 x 67 22 x 37 IRR IRR		
T380-071	The Corporation of the City of Sudbury 200 Brady Street Sudbury, ON P3A 5P3	PIN 73565-0926 Pcl 37254 Sec Ses Sro; Pt Lt 10 Con 6 Neelon As In Lt311335 Except M961, M1061, Pt 1 & 4, 53R15313; S/T, If Enforceable, Execution 21644, 21864, 8775, 9018, 9019, 9020; S/T Lt147324, Lt476507, L177666, L179444, L186480, L186481; Greater Sudbury		80 x 10 47 x 33.7 IRR IRR	(e) Hydro One Networks Inc.	
	Hydro One Networks Inc. 185 Clegg Road Markham, ON L6G 1B7	PIN 73565-0795 PCL 12630 SEC SES; PT LT 10 CON 6 NEELON AS IN LT71302; S/T LT156335, LT460787; GREATER SUDBURY		10 x 10	(e) The Regional Municipality of Sudbury	
	The Canadian Northern Ontario Railway Company		Permit			
Section Two - LaSalle Road to Frood Road						
FILE NO.	NAME & ADDRESS	PROPERTY DESCRIPTION	PERMANENT EASEMENT Dimensions (Metres) Area Length Width (Hectares)	TEMPORARY EASEMENT Dimensions (Metres) Area Length Width (Hectares)	MORTGAGE, LIEN/LEASE, EASEMENT (M) (L) (E)	
T384-017	The Corporation of the City of Sudbury 200 Brady Street Sudbury, ON P3A 5P3	PIN 02127-0426 Firstly: Sro Part Lot 5 Con 5 Township Of Mckim Being Parts 3, 4, 13, 14, 15, 16 And 17 On Plan 53R15280; *** Subject To Easement Over Parts 14 And 16 As In Lt165019; Subject To Easement Over Parts 13, 14 And 15As In Lt448769; *** Together With A Rights Of Way Over Parts 9, 10, 11, 12 And 18 Plan 53R15280; *** City Of Sudbury ## Secondly: Sro Of Part Lot 6 Con 5, Township Of Mckim Being Parts 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 And 16 On Plan 53R8297; *** Subject To Ea Sement Over Parts 4, 6, 8 And 12 As In Lt147574; Subject To Easement Over Part 2 As In Lt154547; Subject To Easement Over Parts 7, 8, 9 And15 As In Lt 165019; Subject To Easement Over Part 1 As In Lt284256; Subject To Easement Over Parts 6, 14, 15, 16 And 17 As In Lt448769; Subject To Easement Over Parts 1, 2, 3, 4 And 5 Plan 53R11635 As In Lt633625; Subject To Easement Over Part 6 Plan 53R11635 As In Lt633626; *** Together With As Right Of Way Over Parts 9, 10, 11, 12 15280 As In Lt803051; Subject To An Easement In Gross Over Pts 1,2,3,4,5&6 53R20222 As In Sd276161 City Of Greater Sudbury			(e) Hydro One Networks Inc. (e) Nickel District Conservation Authority	



Environmental Checklist

The Project Originator is responsible for reviewing and completing the following checklist to determine if the project should be forwarded to EH&S Planning for their review. **When completing this form, please ensure that a Description of Feature is given and that the Proposed Mitigation is identified for those features marked YES in the Impacted column.**

Project Name: NPS 10 Replacement Project **Project Number:**

Date: 2015-02-02
Project Originator: North Bay District

Project Description: Replace two sections of the NPS 10 inch Sudbury Lateral Line with new NPS 12 inch within the existing trench.

Feature and Description	Impacted Yes/No	Proposed Mitigation
Water Course Crossings Description: Crossings see attached drawings for locations 1 Watercourse Crossing/ Work in Vicinity	Yes	See sections 3.44 and 3.45 C&M Manual for mitigation. Adhere to SCR and permit requirements If possible use Horizontal Directional Drill method following the Generic Sediment Control Plan - Horizontal Directional Drill If HDD is not feasible use Dam and Pump method following the Union Gas/DFO endorsed Generic Sediment Control Plan - Dam and Pump Watercourse crossing permits will be obtained from Conservation Sudbury
Social Impacts Description: Construction in road allowance Traffic, Dust, Noise	Yes	See sections 18.7 and 18.8 of the C&M manual for mitigation Union will adhere to the municipal traffic control guidelines. Dust will be controlled using water as necessary. Construction will proceed during daylight hours. All equipment will be provided with proper muffler to mitigate noise concerns.
Land use Designations Description:	No	.
Agricultural Resources Description:	No	See sections 3.46 and 3.25 C&M Manual for mitigation
Vegetation and Wildlife Habitat Description: Working Within a Possible Wetland Area	Yes	- Screen for Species at Risk. - Work with Ministry of Natural Resources and Conservation Sudbury to mitigate any concerns. - Acquire permit from Conservation Sudbury.

Water Wells and Hydrology Description:	No	Municipal water source
Heritage Resources Description:	No	.
Geological Resources and Minerals Description: Possible Bedrock	Yes	Use hoe-ram to remove additional material from existing trench. If blasting necessary, follow Unions Rock Excavation Specification 3.10
Additional Concerns Description:	No	

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