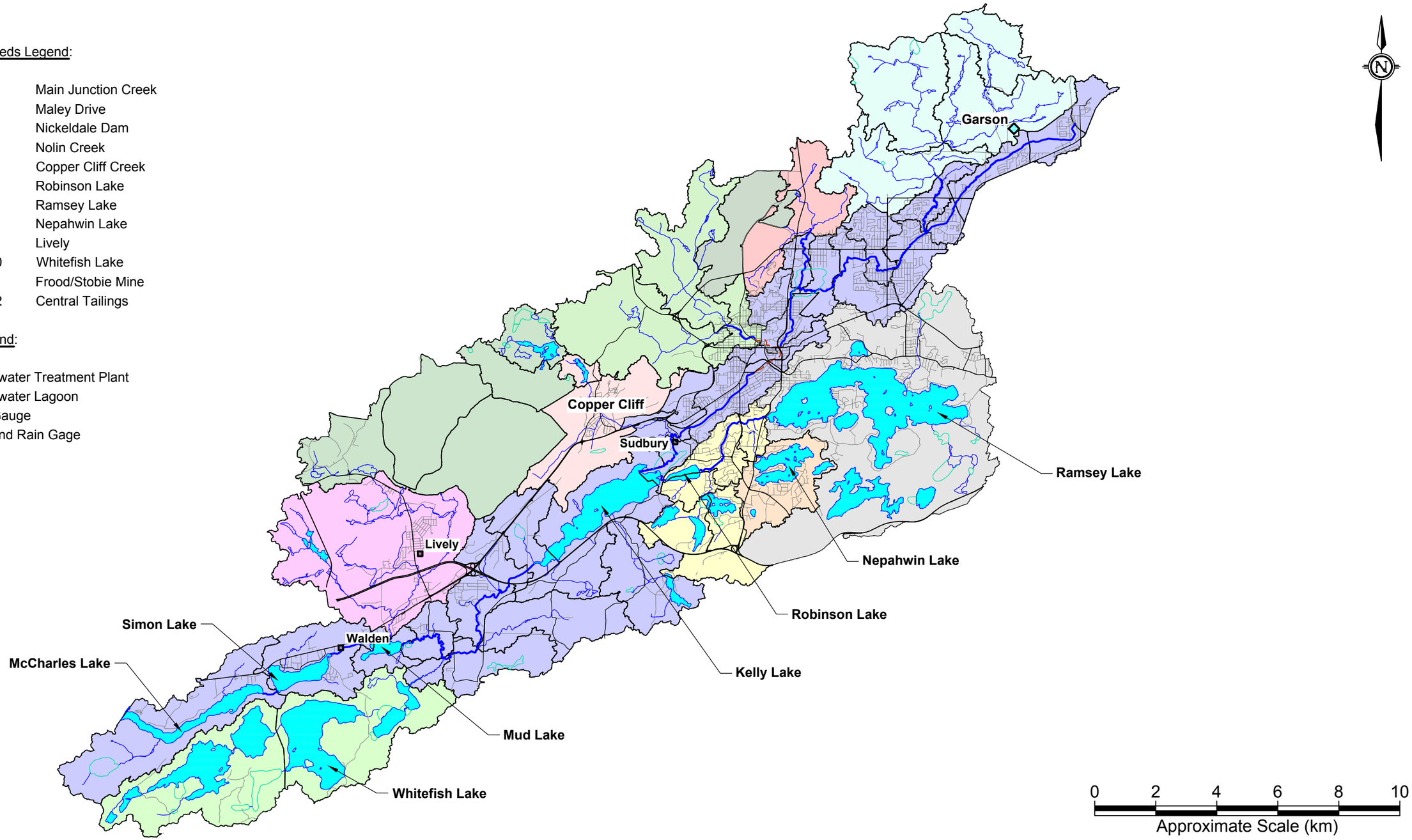
Sub-Watersheds Legend:

	1	Main Junction Creek
	2	Maley Drive
	3	Nickeldale Dam
	4	Nolin Creek
	5	Copper Cliff Creek
	6	Robinson Lake
	7	Ramsey Lake
	8	Nepahwin Lake
	9	Lively
	10	Whitefish Lake
	11	Frood/Stobie Mine
	12	Central Tailings

Symbol Legend:

- Wastewater Treatment Plant
- Wastewater Lagoon
- Flow Gauge
- Flow and Rain Gage



Note:
Land Use shapefiles retrieved from Land Information Ontario (LIO) Digital Data Warehouse.

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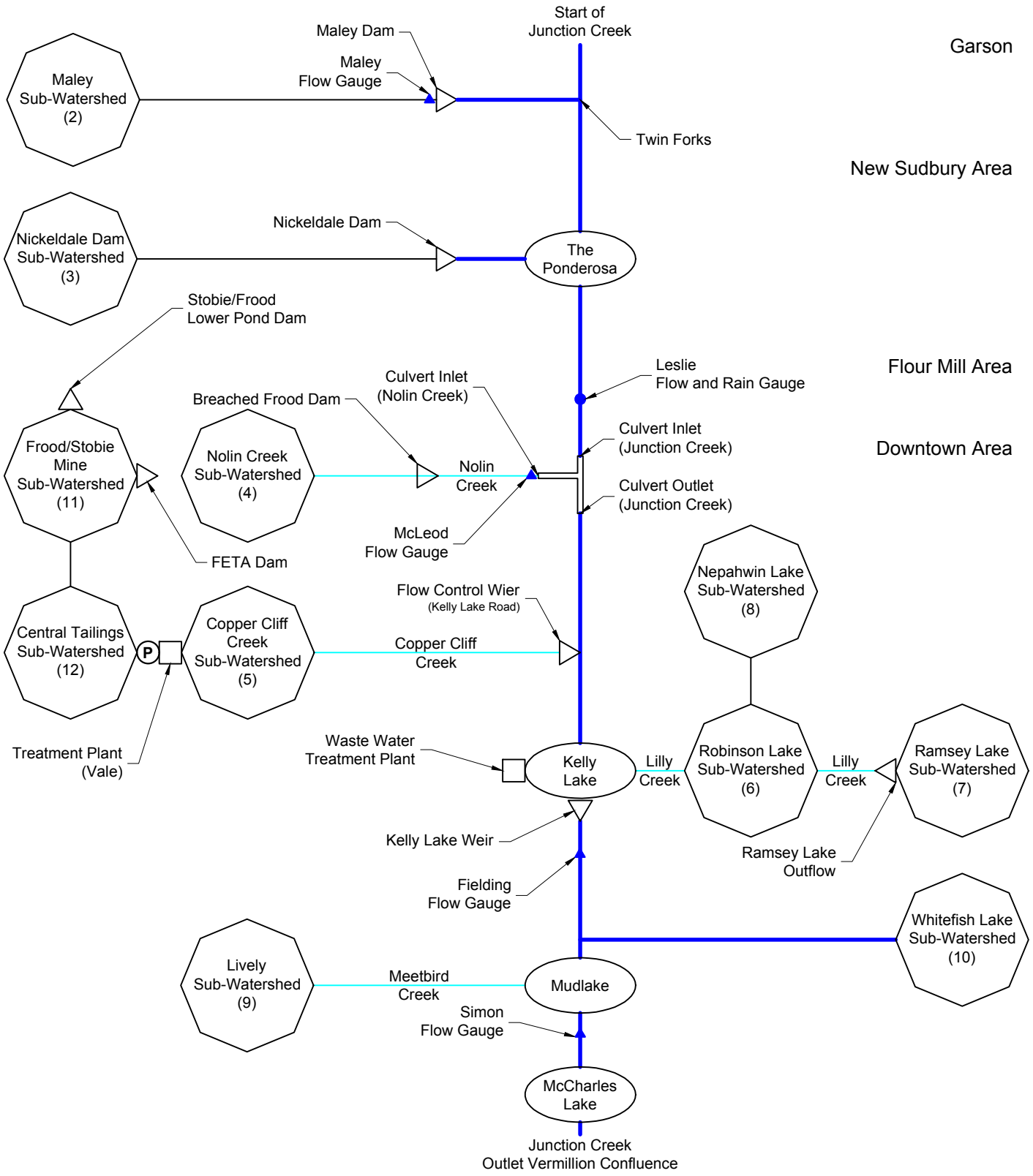
131 Fielding Road
Lively, Ontario
P3Y 1L7
705-682-2632

City of Greater Sudbury

DWN BY:	KKJ
CHK'D BY:	MDOG
SCALE:	as shown
PROJECT	Junction Creek Subwatershed Study City of Greater Sudbury, Ontario
TITLE	Subwatershed Major Delineation
DATE	Dec. 2018
PROJECT No.	TY161021
REV. No.	1
FIGURE No.	C.1



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wood.

Sudbury

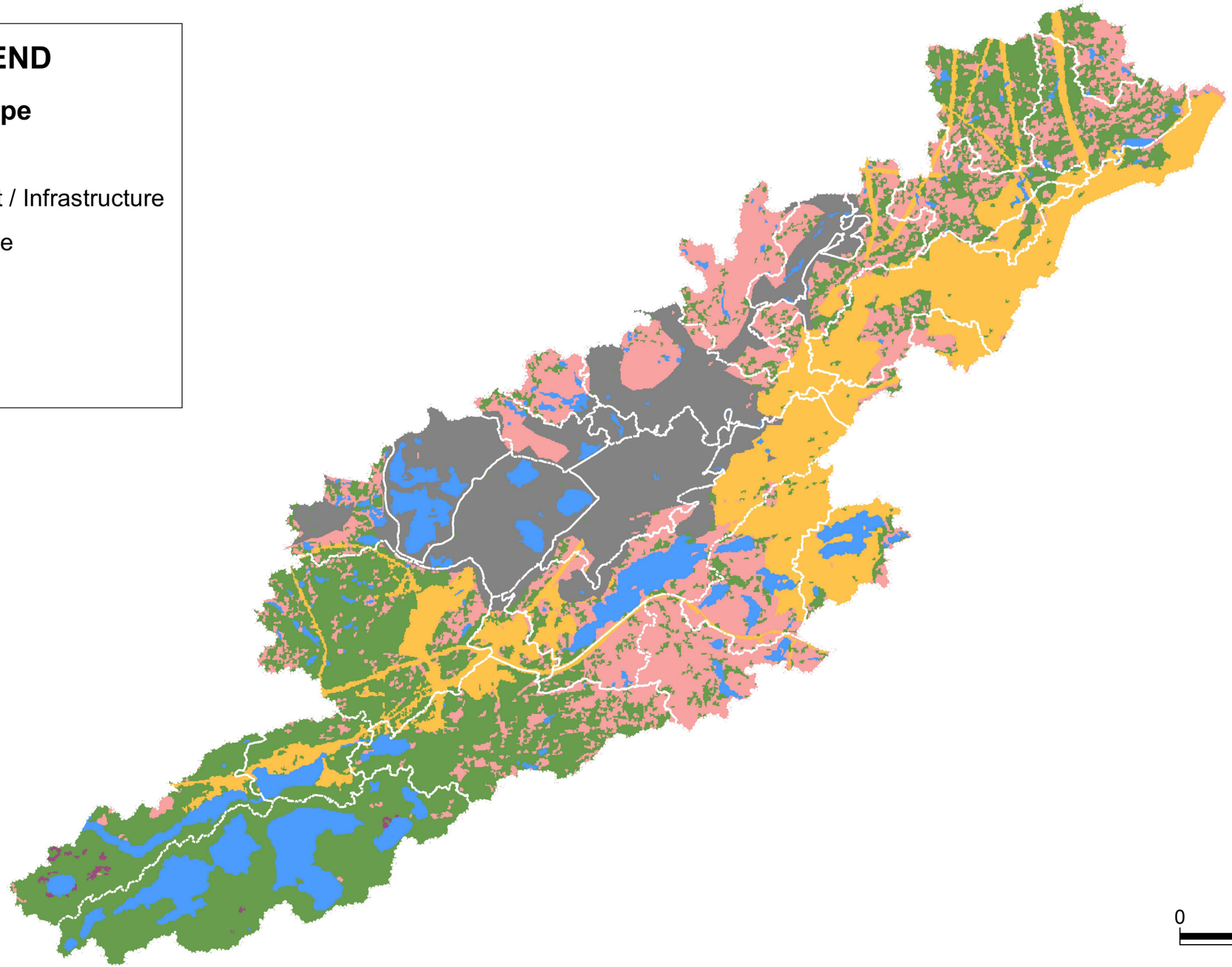
City of Greater Sudbury

PROJECT: Junction Creek Subwatershed Study City of Greater Sudbury, Ontario	DWN BY: KKJ	CHK'D BY: MDOG	DATE: Dec 2018	
			PROJECT NO: TY161021	
TITLE: Subwatershed Flow Schematic	REV. NO.: 1	SCALE: not ot scale	FIGURE NO: C.2	

LEGEND

Land Cover Type

- Water
- Settlement / Infrastructure
- Mine Waste
- Bedrock
- Forest
- Bog



0 2 4 6 8 10

Approximate Scale (km)

Note:
Land Use shapefiles retrieved from Land Information Ontario (LIO) Digital Data Warehouse.

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DWN BY:	KKJ
CHK'D BY:	MDOG
SCALE:	not to scale
PROJECT	Junction Creek Subwatershed Study City of Greater Sudbury, Ontario
TITLE	Subwatershed Land Cover
DATE	Dec. 2018
PROJECT No.	TY161021
REV. No.	1
FIGURE No.	C.3

PONDEROSA 3
NATURAL STORAGE AREA

PONDEROSA 1
NATURAL
STORAGE AREA

PONDEROSA 2
NATURAL STORAGE AREA

N

ROAD
LOT LINE
WATERCOURSE & WATERBODY
MINOR CONTOUR (2m)
MAJOR CONTOUR (10m)

BOUNDARY OF CONCEPTUAL HYDRAULIC STORAGE AREA

CONCEPTUAL MOVEMENT OF WATER

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705-682-2632

wood.

DWN BY: KMR

CHK'D BY: MDOG

SCALE: 1:10,000

PROJECT
Junction Creek Subwatershed Study
City of Greater Sudbury, Ontario

TITLE
Ponderosa Natural Storage Areas

DATE: Dec. 2018

PROJECT No.: TY161021

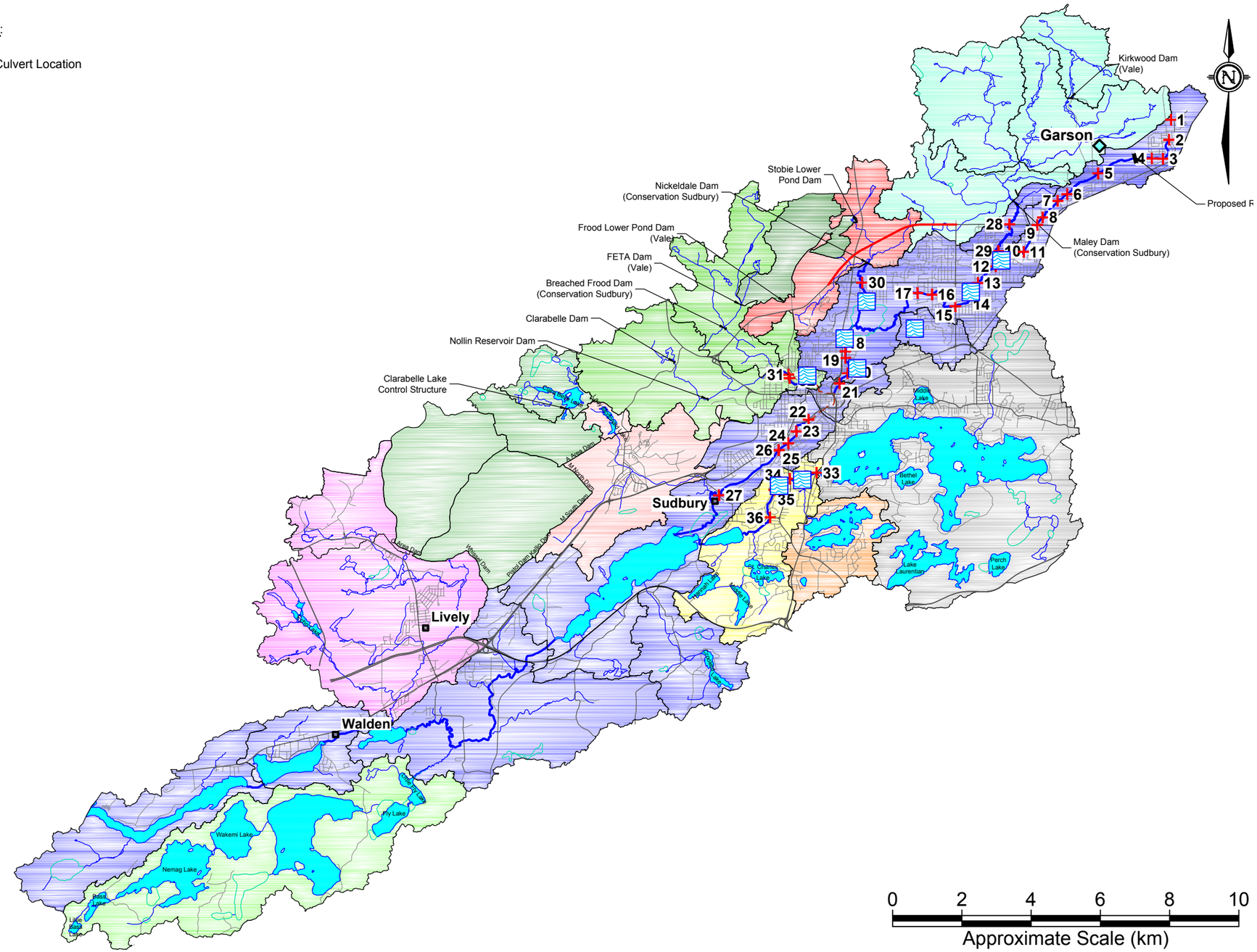
REV. No.: 1

FIGURE No.: C.4

Stream	Description	No.	Location	Coordinates (NAD 83)	
Main Branch of Junction Creek	From Garson to the Box Culvert Downtown	1	Pine St (Garson)	510507.00 m E	5156766.00 m N
		2	Birch St (Garson)	510450.00 m E	5156189.00 m N
		3	Orell St	510276.00 m E	5155642.00 m N
		4	Margaret St	509953.00 m E	5155650.00 m N
		5	O'Neil Dr	508400.00 m E	5155221.00 m N
		6	Donnely Dr	507507.00 m E	5154617.00 m N
		7	Carr Ave	507231.00 m E	5154426.00 m N
		8	Matson Road	506802.00 m E	5153947.00 m N
		9	Maley Dr (East)	506646.00 m E	5153729.00 m N
		10	Madison Ave	505520.00 m E	5152973.00 m N
		11	Christina Dr	506254.00 m E	5152954.00 m N
		12	Lansing Ave	505441.00 m E	5152533.00 m N
		13	LaSalle at Main Creek	504931.00 m E	5152051.00 m N
		14	CNRail @ Lasalle & Barrydowne	504727.00 m E	5151721.00 m N
		15	Barrydowne Rd	504277.00 m E	5151382.00 m N
		16	Atlee Ave	503606.00 m E	5151717.00 m N
		17	Arthur St	503187.00 m E	5151762.00 m N
		18	King St	501101.00 m E	5150077.00 m N
		19	Bond St	501100.00 m E	5149887.00 m N
		20	Leslie St	501167.00 m E	5149443.00 m N
		21	Louis St	500932.00 m E	5149149.00 m N
	From Box Culvert Downtown to Kelly Lake	22	Douglas St / Brady St	500038.51 m E	5148101.82 m N
		23	Riverside Dr	499686.00 m E	5147765.00 m N
		24	Regent St	499451.00 m E	5147420.00 m N
		25	Mcleod St	499172.00 m E	5147217.00 m N
		26	Martindale Rd	499177.52 m E	5147225.00 m N
		27	Kelly Lake Rd	497452.00 m E	5145917.00 m N
Tributaries upstream of Kelly Lake	Maley Dam	28	Maley Dr (West)	505838.00 m E	5153748.00 m N
		29	Madison Ave	505520.00 m E	5152973.00 m N
	Nickeldale Dam	30	Lasalle Blvd at Nickeldale	501584.00 m E	5152063.00 m N
	Nolins Creek	31	Beatty St	499455.00 m E	5149404.00 m N
		32	Dufferin St	499489.00 m E	5149304.00 m N
	From Ramsey Lake to Robinson Lake (Lily Creek)	33	Paris St	500270.00 m E	5146570.00 m N
		34	Regent St (near beverly Dr)	499499.00 m E	5146395.00 m N
		35	Martindale Rd (near beverly Dr)	499046.00 m E	5146070.00 m N
		36	Bouchar St	498922.00 m E	5145279.00 m N

Legend:

+ Culvert Location



Note:

Land Use shapefiles retrieved from Land Information Ontario (LIO) Digital Data Warehouse.

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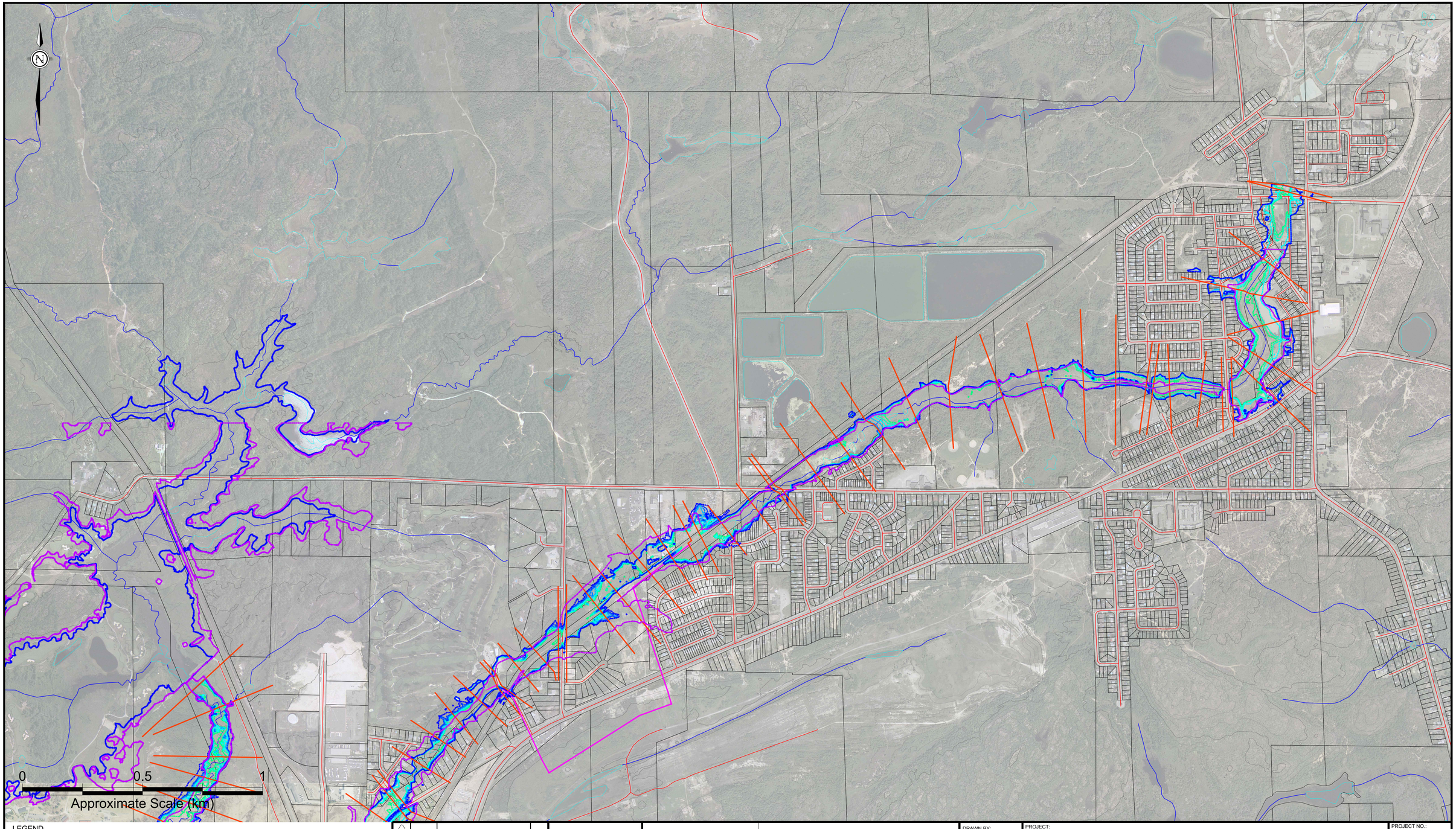
DWN BY:	KKJ
CHK'D BY:	MDOG
SCALE:	as shown
PROJECT	Junction Creek Subwatershed Study City of Greater Sudbury, Ontario
TITLE	Major Road Crossings Along Junction Creek and Tributaries
DATE	Dec 2018
PROJECT No.	TY161021
REV. No.	1
FIGURE No.	C.5



LEGEND

- ROAD
- LOT LINE
- WATERCOURSE & WATERBODY
- MINOR CONTOUR (2m)
- MAJOR CONTOUR (10m)
- HEC-RAS XS
- EXISTING REGULATORY FLOODLINE (NDCA)
- PRELIMINARY TIMMINS FLOODLINE
- PRELIMINARY 100YR FLOODLINE
- PRELIMINARY 50YR FLOODLINE
- PRELIMINARY 250YR FLOODLINE
- PRELIMINARY 10YR FLOODLINE
- PRELIMINARY 5YR FLOODLINE
- PRELIMINARY 2YR FLOODLINE
- DOWNTOWN BOX CULVERT

REV	D/M/Y	ISSUE/REVISION DESCRIPTION	ENG.

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Wood Environment & Infrastructure Solutions
131 Fielding Road
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wood.

DRAWN BY: KMR

REVIEWED BY: MDO

APPROVED BY:

PROJECT: JUNCTION CREEK SUBWATERSHED STUDY
SUDBURY, ONTARIO

TITLE: HEC-RAS EVENT FLOODPLAIN DELINEATION 1
GARSON & UPPER JUNCTION CREEK

PROJECT NO.: TY161021

REVISION NO.

DATE: DEC 2018

SCALE: 1:7,500

DRAWING NO.: C6.1

0 0.5 1

Approximate Scale (km)

LEGEND

- ROAD
- LOT LINE
- WATERCOURSE & WATERBODY
- MINOR CONTOUR (2m)
- MAJOR CONTOUR (10m)
- HEC-RAS XS
- EXISTING REGULATORY FLOODLINE (NDCA)
- PRELIMINARY TIMMINS FLOODLINE
- PRELIMINARY 100YR FLOODLINE
- PRELIMINARY 50YR FLOODLINE
- PRELIMINARY 25YR FLOODLINE
- PRELIMINARY 10YR FLOODLINE
- PRELIMINARY 5YR FLOODLINE
- PRELIMINARY 2YR FLOODLINE
- DOWNTOWN BOX CULVERT

REV	D/M/Y	ISSUE/REVISION DESCRIPTION	ENG.

Greater Sudbury

City of Greater Sudbury

Wood Environment & Infrastructure Solutions
131 Fielding Road
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wood.

DRAWN BY: KMR

REVIEWED BY: MDO

APPROVED BY:

PROJECT: JUNCTION CREEK SUBWATERSHED STUDY
SUDBURY, ONTARIO

TITLE: HEC-RAS EVENT FLOODPLAIN DELINEATION 2
UPPER JUNCTION CREEK & TRIBUTARIES

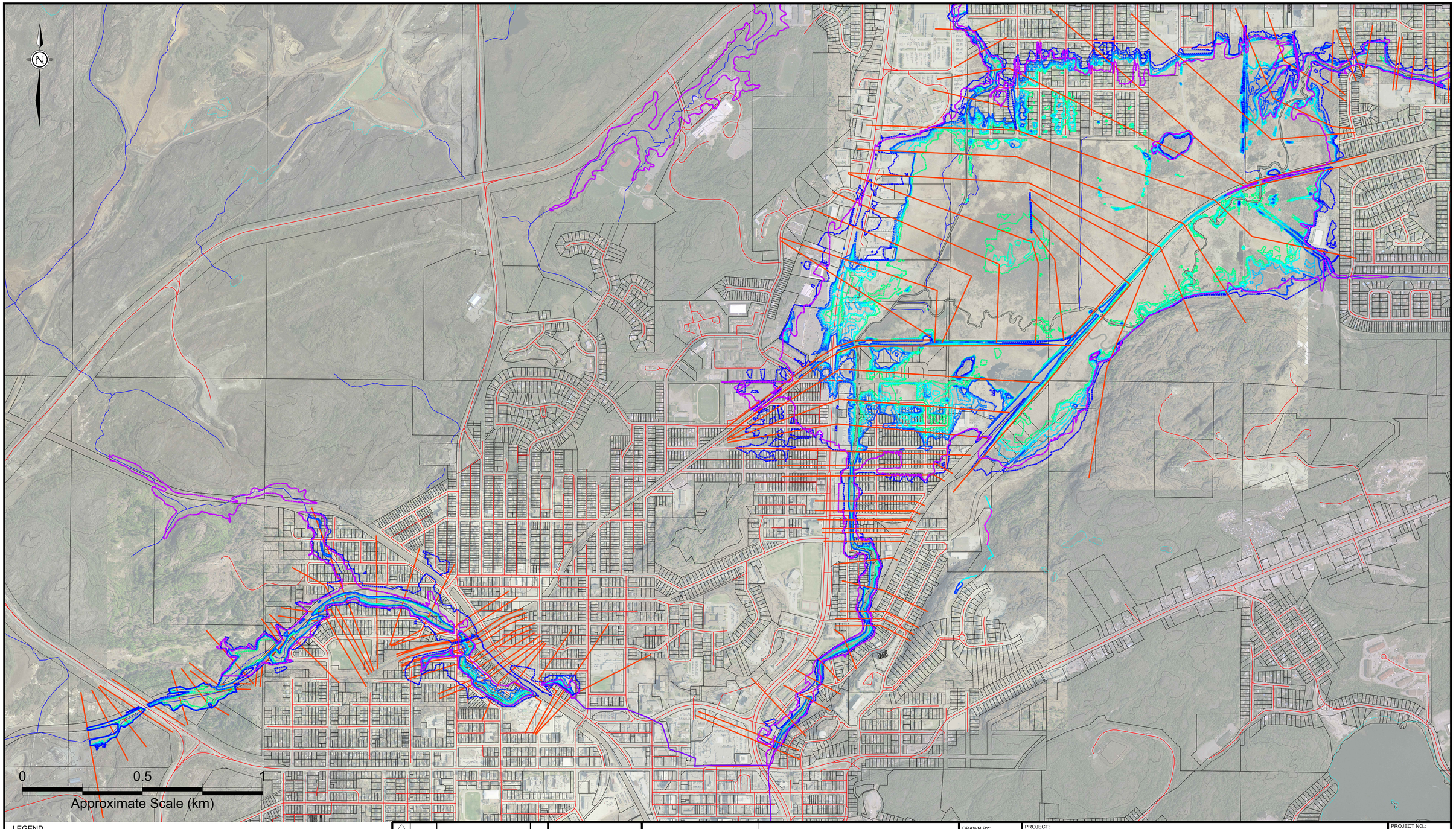
PROJECT NO.: TY161021

REVISION NO.

DATE: DEC 2018

SCALE: 1:7,500

DRAWING NO.: C6.2



LEGEND

- ROAD
- LOT LINE
- WATERCOURSE & WATERBODY
- MINOR CONTOUR (2m)
- MAJOR CONTOUR (10m)
- HEC-RAS XS
- EXISTING REGULATORY FLOODLINE (NDCA)
- PRELIMINARY TIMMINS FLOODLINE
- PRELIMINARY 100YR FLOODLINE
- PRELIMINARY 50YR FLOODLINE
- PRELIMINARY 250YR FLOODLINE
- PRELIMINARY 10YR FLOODLINE
- PRELIMINARY 5YR FLOODLINE
- PRELIMINARY 2YR FLOODLINE
- DOWNTOWN BOX CULVERT

REV	D/M/Y	ISSUE/REVISION DESCRIPTION	ENG.

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DRAWN BY: KMR

REVIEWED BY: MDO

APPROVED BY:

PROJECT: JUNCTION CREEK SUBWATERSHED STUDY
SUDBURY, ONTARIO

TITLE: HEC-RAS EVENT FLOODPLAIN DELINEATION 3
PONDEROSA & NOLIN CREEK

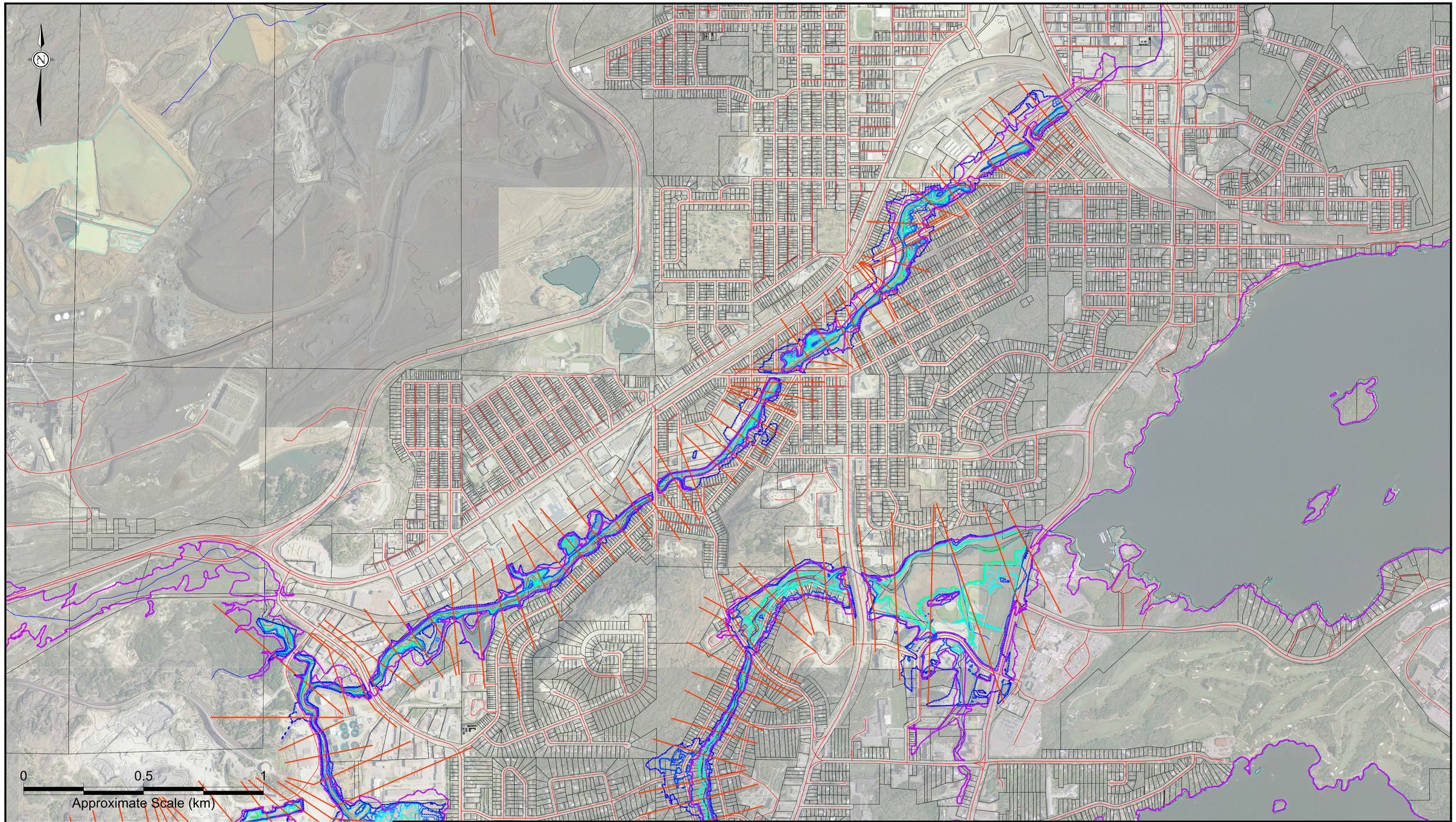
PROJECT NO.: TY161021

REVISION NO.

DATE: DEC 2018

SCALE: 1:7,500

DRAWING NO.: C6.3



LEGEND

- ROAD
- LOT LINE
- WATERCOURSE & WATERBODY
- MINOR CONTOUR (2m)
- MAJOR CONTOUR (10m)
- HEC-RAS XS
- EXISTING REGULATORY FLOODLINE (NDCA)
- PRELIMINARY TIMMINS FLOODLINE
- PRELIMINARY 100YR FLOODLINE
- PRELIMINARY 50YR FLOODLINE
- PRELIMINARY 25YR FLOODLINE
- PRELIMINARY 10YR FLOODLINE
- PRELIMINARY 5YR FLOODLINE
- PRELIMINARY 2YR FLOODLINE
- DOWNTOWN BOX CULVERT

REV	D/M/Y	ISSUE/REVISION DESCRIPTION	ENG.

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DRAWN BY: KMR

REVIEWED BY: MDO

APPROVED BY:

PROJECT: JUNCTION CREEK SUBWATERSHED STUDY
SUDBURY, ONTARIO

TITLE: HEC-RAS EVENT FLOODPLAIN DELINEATION 4
MIDDLE JUNCTION CREEK & LILY CREEK

PROJECT NO.: TY161021

REVISION NO.

DATE: DEC 2018

SCALE: 1:7,500

DRAWING NO.: C6.4

0 0.5 1

Approximate Scale (km)

LEGEND

- ROAD
- LOT LINE
- WATERCOURSE & WATERBODY
- MINOR CONTOUR (2m)
- MAJOR CONTOUR (10m)
- HEC-RAS XS
- EXISTING REGULATORY FLOODLINE (NDCA)
- PRELIMINARY TIMMINS FLOODLINE
- PRELIMINARY 100YR FLOODLINE
- PRELIMINARY 50YR FLOODLINE
- PRELIMINARY 25YR FLOODLINE
- PRELIMINARY 10YR FLOODLINE
- PRELIMINARY 5YR FLOODLINE
- PRELIMINARY 2YR FLOODLINE
- DOWNTOWN BOX CULVERT

REV	D/M/Y	ISSUE/REVISION DESCRIPTION	ENG.

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131 Fielding Road
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DRAWN BY: KMR

REVIEWED BY: MDO

APPROVED BY:

PROJECT: JUNCTION CREEK SUBWATERSHED STUDY
SUDBURY, ONTARIO

TITLE: HEC-RAS EVENT FLOODPLAIN DELINEATION 5
ROBINSON & KELLY LAKES

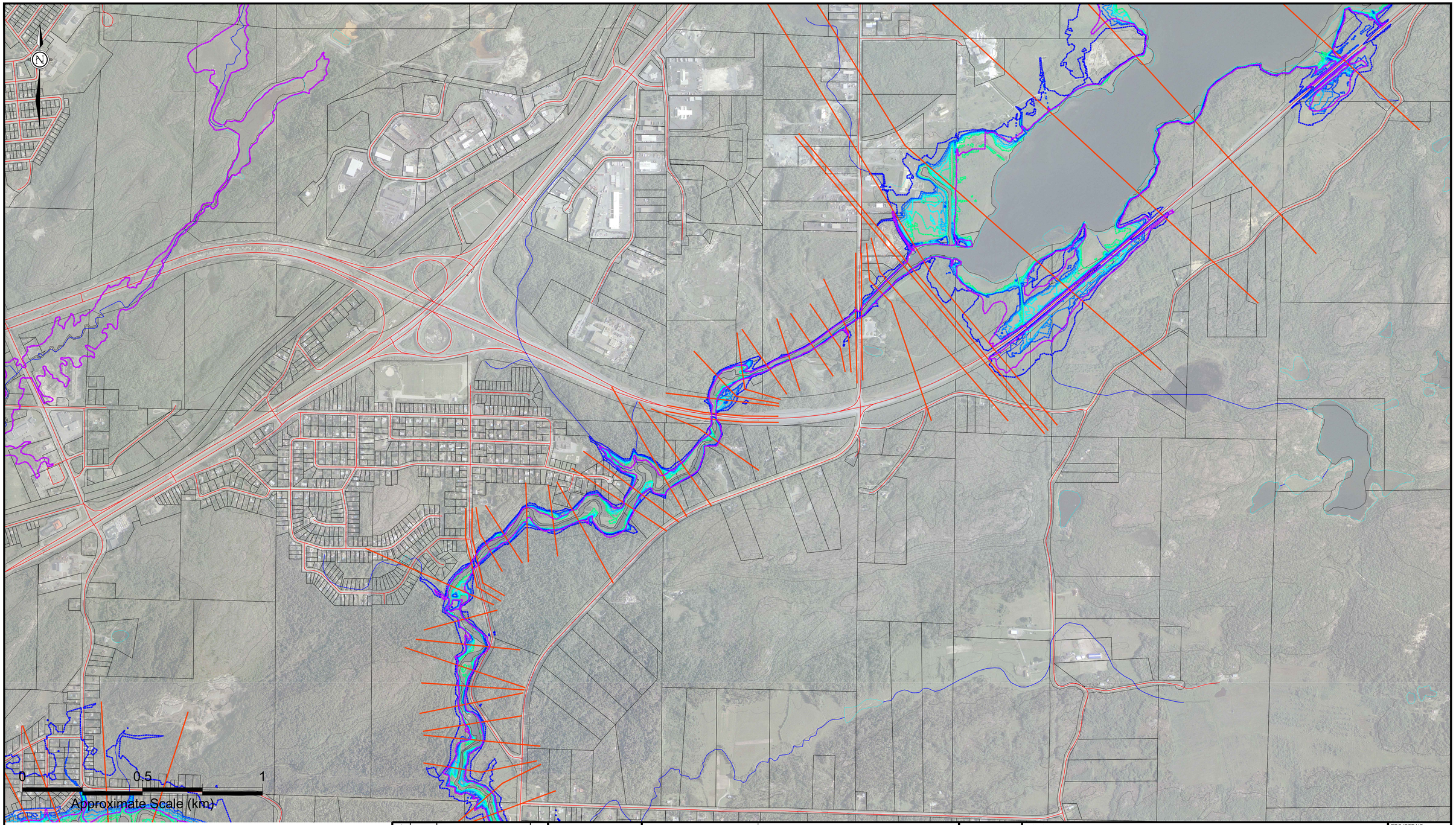
PROJECT NO.: TY161021

REVISION NO.:

DATE: DEC 2018

SCALE: 1:7,500

DRAWING NO.: C6.5



LEGEND

- ROAD
- LOT LINE
- WATERCOURSE & WATERBODY
- MINOR CONTOUR (2m)
- MAJOR CONTOUR (10m)
- HEC-RAS XS
- EXISTING REGULATORY FLOODLINE (NDCA)
- PRELIMINARY TIMMINS FLOODLINE
- PRELIMINARY 100YR FLOODLINE
- PRELIMINARY 50YR FLOODLINE
- PRELIMINARY 25YR FLOODLINE
- PRELIMINARY 10YR FLOODLINE
- PRELIMINARY 5YR FLOODLINE
- PRELIMINARY 2YR FLOODLINE
- DOWNTOWN BOX CULVERT

REV	D/M/Y	ISSUE/REVISION DESCRIPTION	ENG.

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DRAWN BY: KMR

REVIEWED BY: MDO

APPROVED BY:

PROJECT: JUNCTION CREEK SUBWATERSHED STUDY
SUDBURY, ONTARIO

TITLE: HEC-RAS EVENT FLOODPLAIN DELINEATION 6
KELLY LAKE & LOWER JUNCTION CREEK

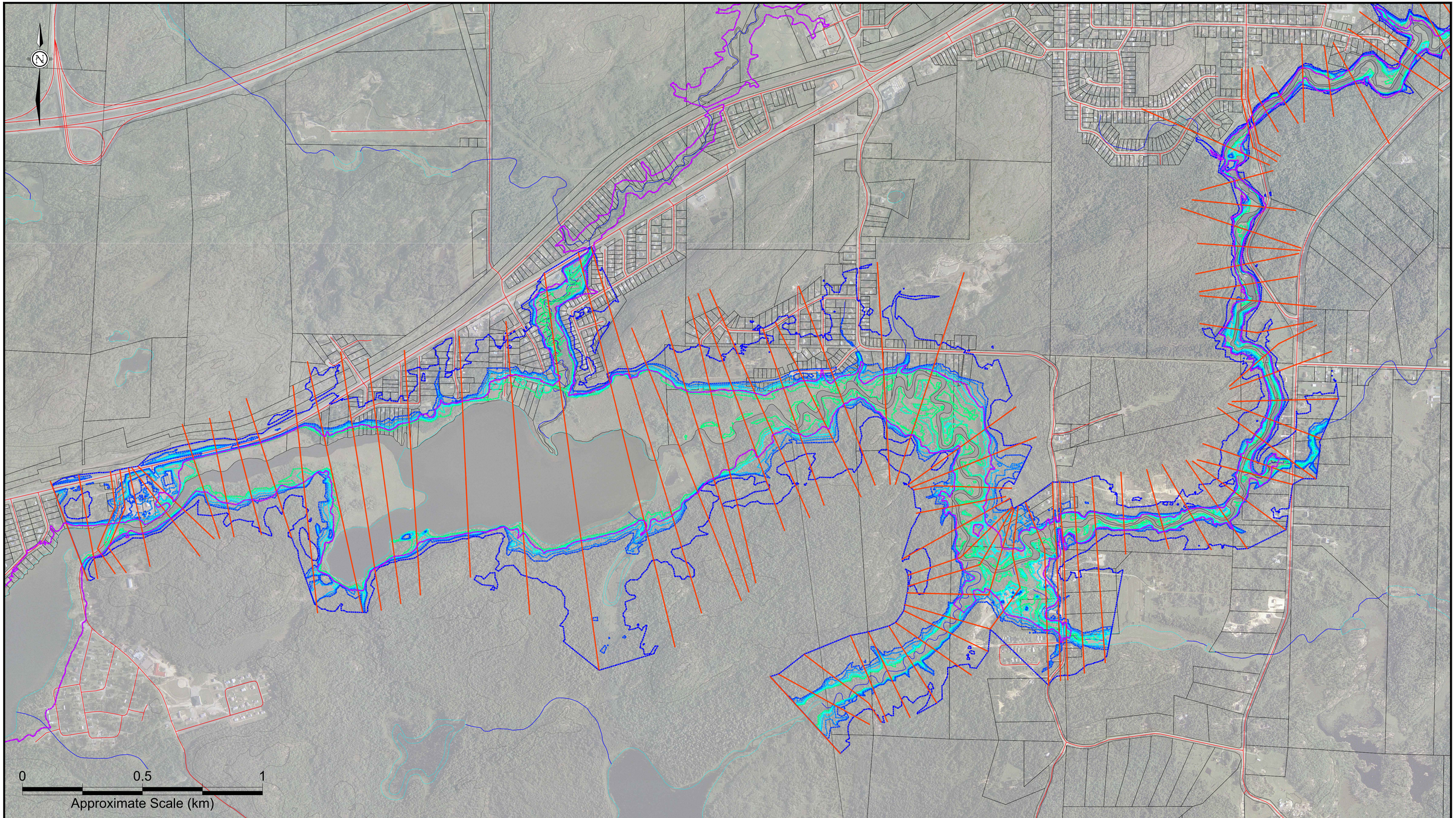
PROJECT NO.: TY161021

REVISION NO.

DATE: DEC 2018

SCALE: 1:7,500

DRAWING NO.: C6.6



LEGEND

- ROAD
- LOT LINE
- WATERCOURSE & WATERBODY
- MINOR CONTOUR (2m)
- MAJOR CONTOUR (10m)
- HEC-RAS XS
- EXISTING REGULATORY FLOODLINE (NDCA)
- PRELIMINARY TIMMINS FLOODLINE
- PRELIMINARY 100YR FLOODLINE
- PRELIMINARY 50YR FLOODLINE
- PRELIMINARY 25YR FLOODLINE
- PRELIMINARY 10YR FLOODLINE
- PRELIMINARY 5YR FLOODLINE
- PRELIMINARY 2YR FLOODLINE
- DOWNTOWN BOX CULVERT

REV	D/M/Y	ISSUE/REVISION DESCRIPTION	ENG.

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DRAWN BY: KMR

REVIEWED BY: MDO

APPROVED BY:

PROJECT:
JUNCTION CREEK SUBWATERSHED STUDY
SUDBURY, ONTARIO

TITLE:
HEC-RAS EVENT FLOODPLAIN DELINEATION 7
LOWER JUNCTION CREEK & MUD LAKE

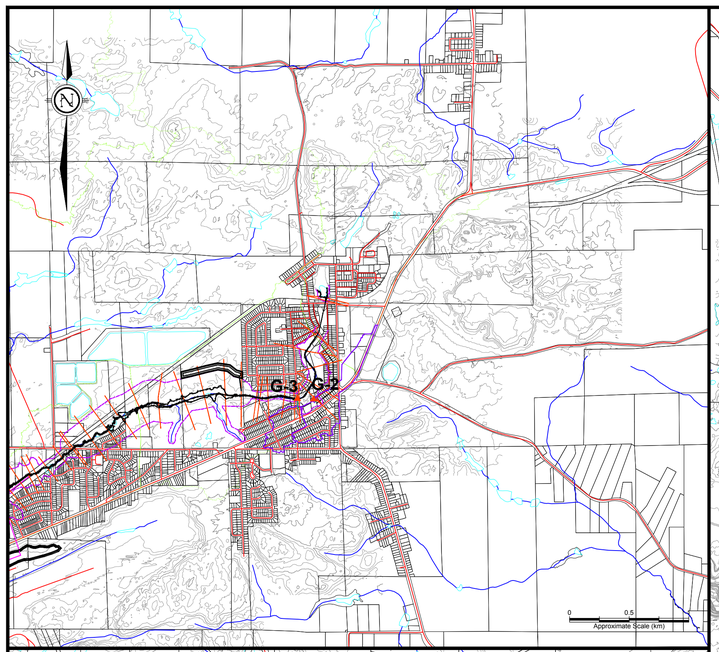
PROJECT NO.: TY161021

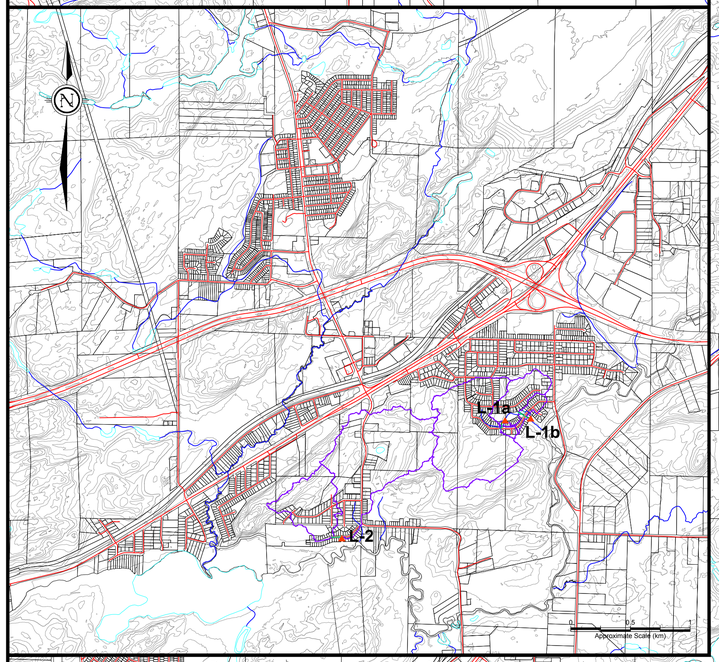
REVISION NO.

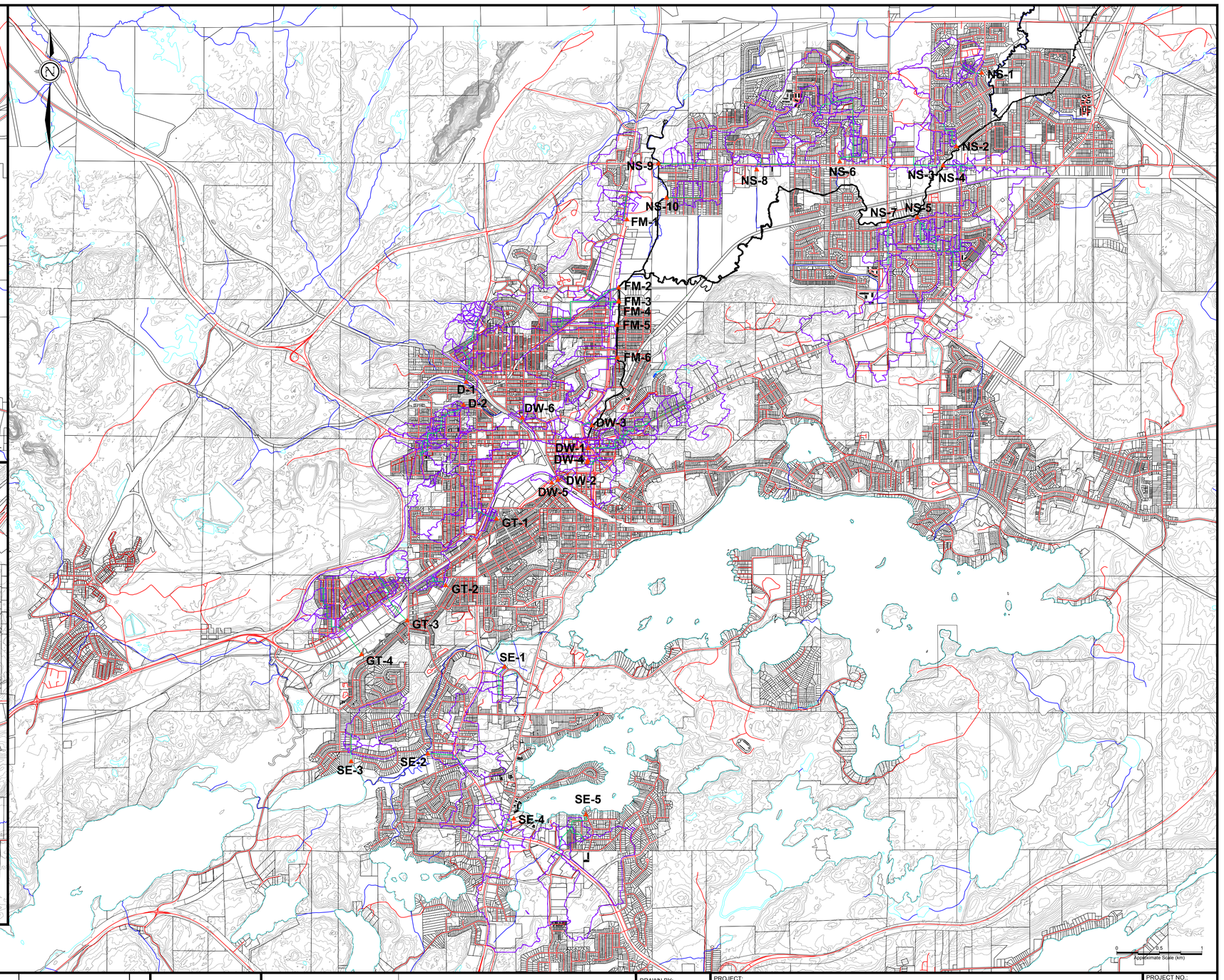
DATE: DEC 2018

SCALE: 1:7,500

DRAWING NO.: C6.7







LEGEND

- ROAD
- LOT LINE
- WATERCOURSE & WATERBODY
- MINOR CONTOUR (2m)
- MAJOR CONTOUR (10m)
- TRUNK SEWER SUBCATCHMENT
- MODELED TRUNK STORM SEWER
- TRUNK STORM SEWER OUTFALL
- DOWNTOWN BOX CULVERT

REV	D/M/Y	ISSUE/REVISION DESCRIPTION	ENG.

Sudbury (Greater | Grand)

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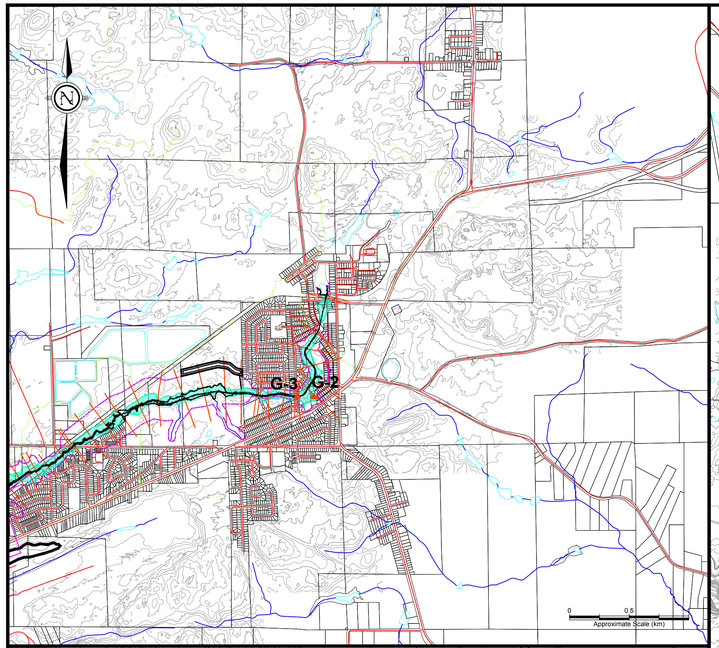
wood.

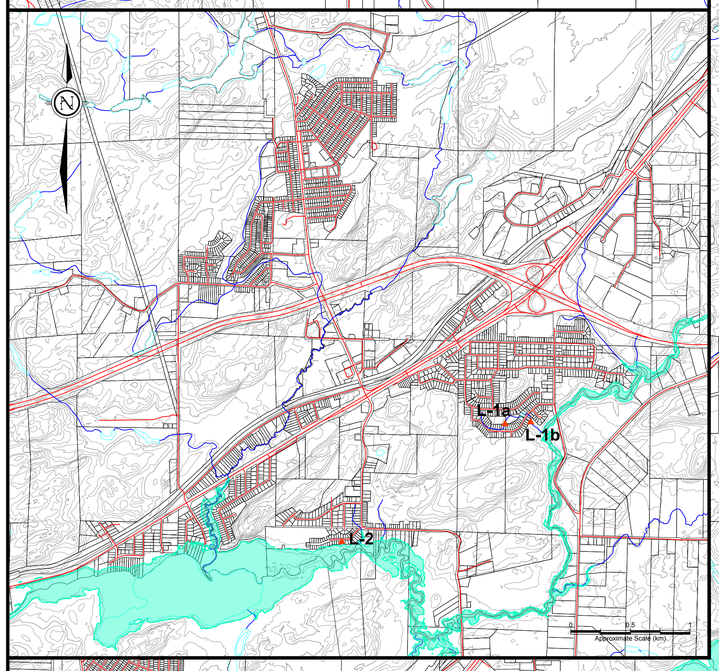
DRAWN BY: KMR
REVIEWED BY: MDO
APPROVED BY:

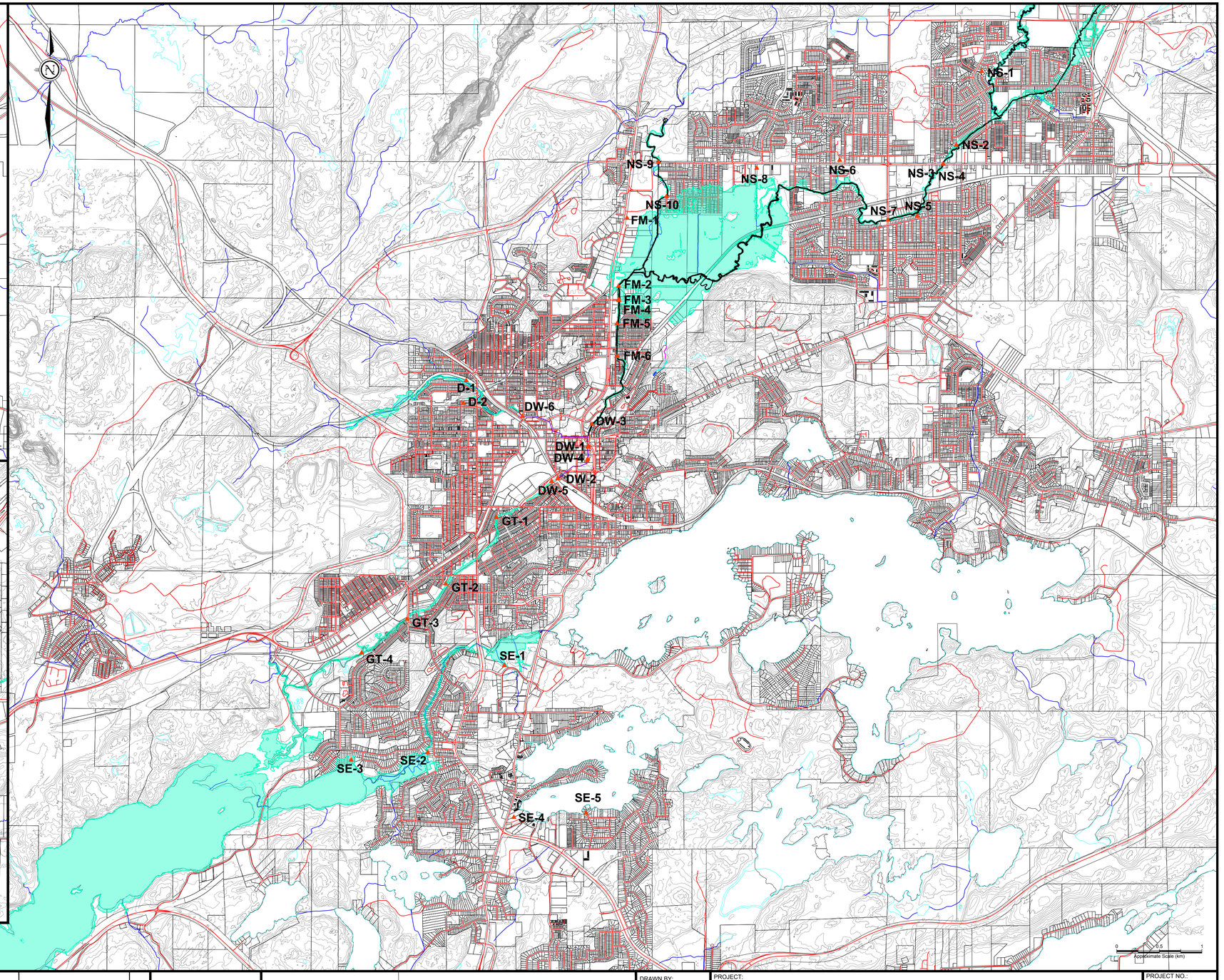
PROJECT: JUNCTION CREEK SUBWATERSHED STUDY
SUDBURY, ONTARIO

TITLE: MODELED TRUNK STORM SEWER SYSTEMS

PROJECT NO.: TY161021
REVISION NO.
DATE: DEC 2018
SCALE: 1:40,000
DRAWING NO.: C7







LEGEND

- ROAD
- LOT LINE
- WATERCOURSE & WATERBODY
- MINOR CONTOUR (2m)
- MAJOR CONTOUR (10m)
- 1:5 YEAR EVENT FLOODPLAIN
- TRUNK STORM SEWER OUTFALL
- DOWNTOWN BOX CULVERT

REV	D/M/Y	ISSUE/REVISION DESCRIPTION	ENG.

Sudbury Greater | Grand

City of Greater Sudbury

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131 Fielding Road
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wood.

DRAWN BY: KMR

REVIEWED BY: MDO

APPROVED BY:

PROJECT: JUNCTION CREEK SUBWATERSHED STUDY
SUDBURY, ONTARIO

TITLE: TRUNK STORM SEWER OUTFALLS
RELATIVE TO 1:5 YEAR EVENT FLOODPLAIN

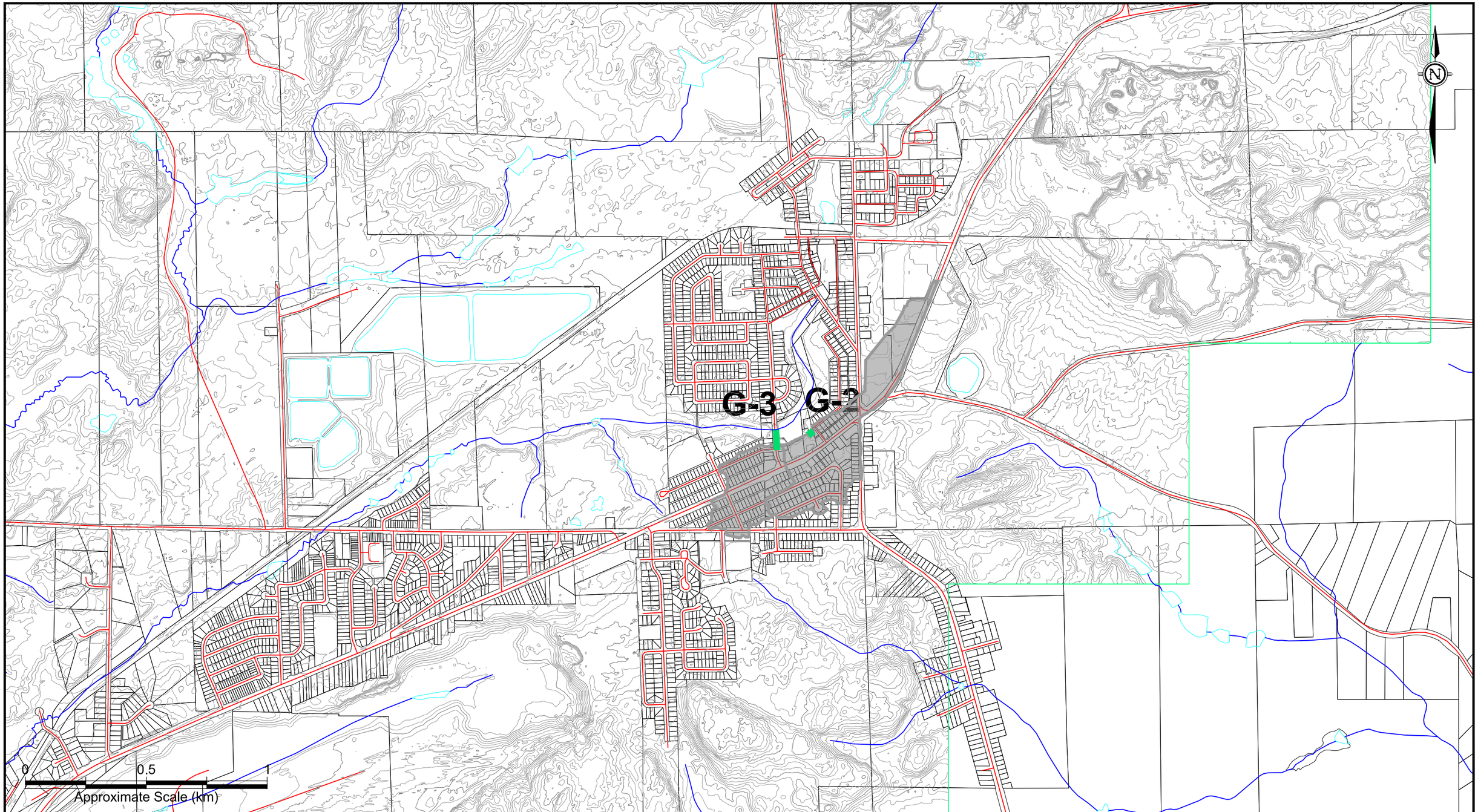
PROJECT NO.: TY161021

REVISION NO.

DATE: DEC 2018

SCALE: 1:40,000

DRAWING NO.: C8



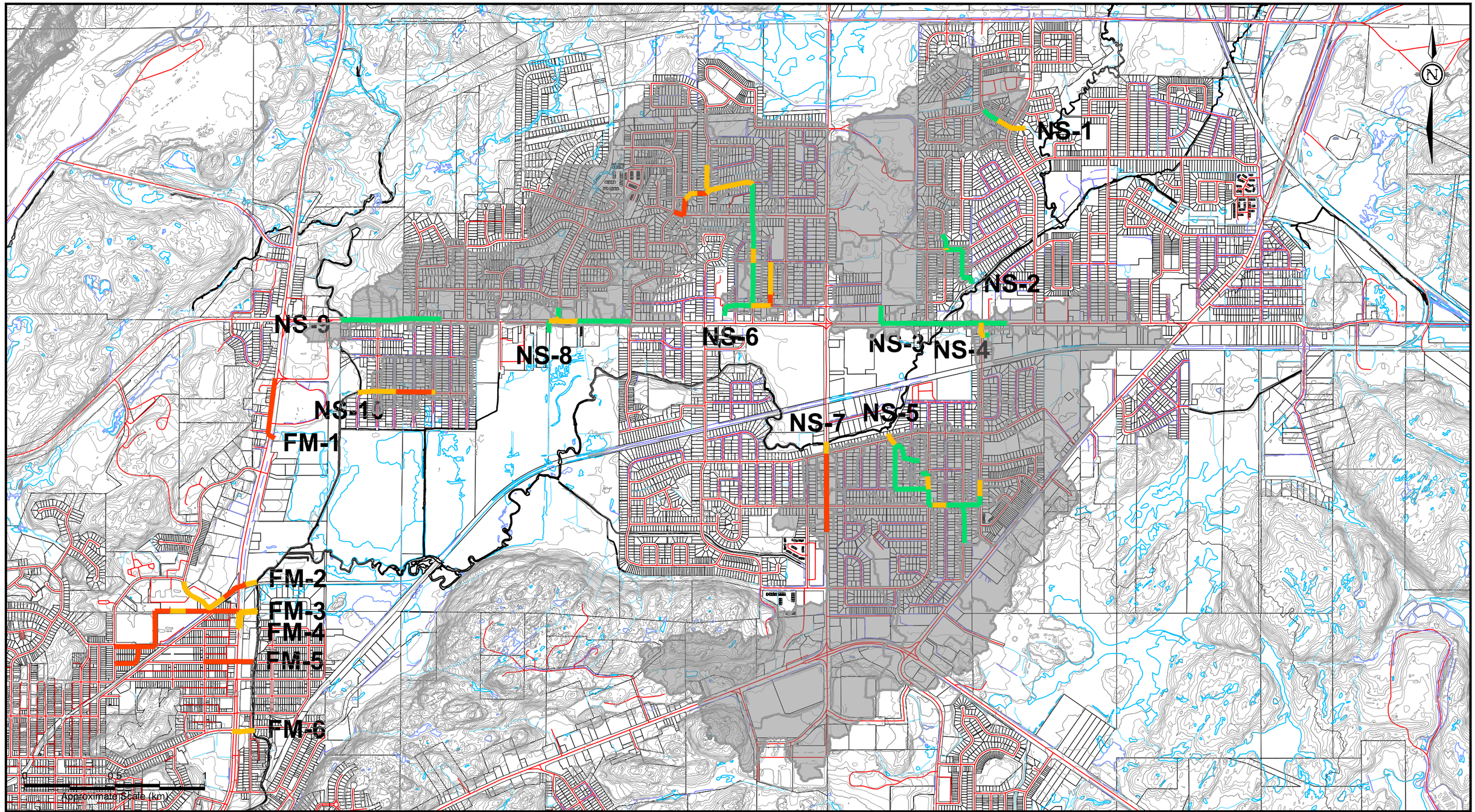
LEGEND

- ROAD (CGS)
- LOT LINE (CGS)
- WATERCOURSE & WATERBODY (CGS)
- DITCH (CGS)
- MAJOR CONTOUR (10m)
- MINOR CONTOUR (2m)
- TRUNK STORM SEWER: NO SURCHARGING (MODEL)
- TRUNK STORM SEWER: SURCHARGING (MODEL)
- TRUNK STORM SEWER: FLOODING (MODEL)
- TRUNK STORM SEWER SUBCATCHMENT AREA

City of Greater Sudbury

Amec Foster Wheeler Environment & Infrastructure
131 Fielding Road
Lively, Ontario
P3Y 1L7
705-682-2632

DWN BY:	KMR
CHK'D BY:	MDOG
SCALE:	1:15,000
PROJECT	Junction Creek Subwatershed Study City of Greater Sudbury, Ontario
TITLE	Trunk Storm Sewer System 5yr Performance - Garson
DATE	Dec. 2018
PROJECT No.	TY161021
REV. No.	1
FIGURE No.	C9.1



LEGEND

- ROAD (CGS)
- LOT LINE (CGS)
- WATERCOURSE & WATERBODY (CGS)
- DITCH (CGS)
- MAJOR CONTOUR (10m)
- MINOR CONTOUR (2m)
- TRUNK STORM SEWER: NO SURCHARGING (MODEL)
- TRUNK STORM SEWER: SURCHARGING (MODEL)
- TRUNK STORM SEWER: FLOODING (MODEL)
- TRUNK STORM SEWER SUBCATCHMENT AREA

Sudbury (Greater | Grand)

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705-682-2632

wood.

DWN BY: KMR

CHK'D BY: MDOG

SCALE: 1:20,000

PROJECT
Junction Creek Subwatershed Study
City of Greater Sudbury, Ontario

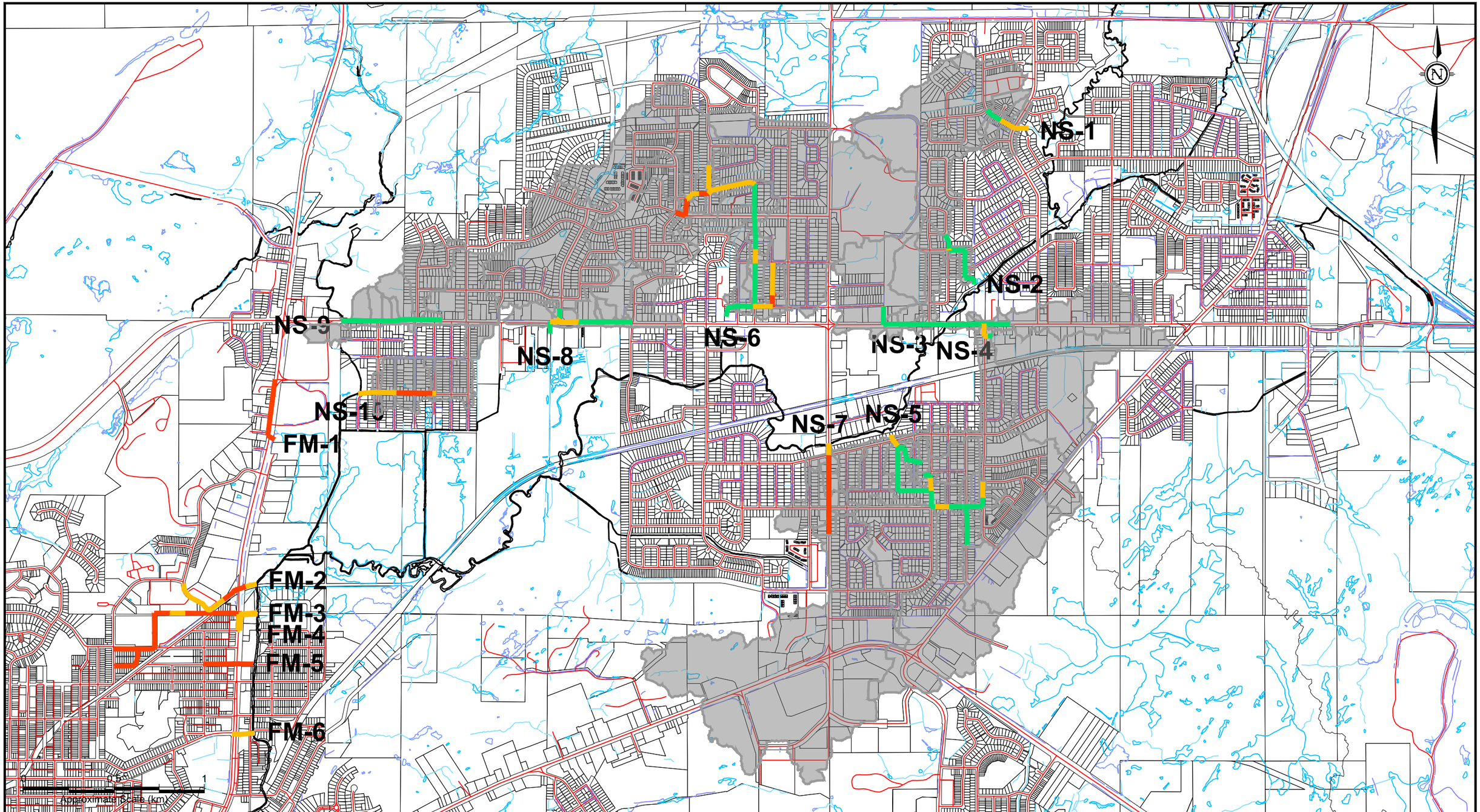
TITLE
Trunk Storm Sewer System 5yr Performance - New Sudbury

DATE: Dec. 2018

PROJECT No.: TY161021

REV. No.: 1

FIGURE No.: C9.2



LEGEND

- ROAD (CGS)
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Sudbury

City of Greater Sudbury

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705-682-2632

wood.

DWN BY: KMR

CHK'D BY: MDOG

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PROJECT
Junction Creek Subwatershed Study
City of Greater Sudbury, Ontario

TITLE
Trunk Storm Sewer System 5yr Performance - New Sudbury

DATE: Dec. 2018

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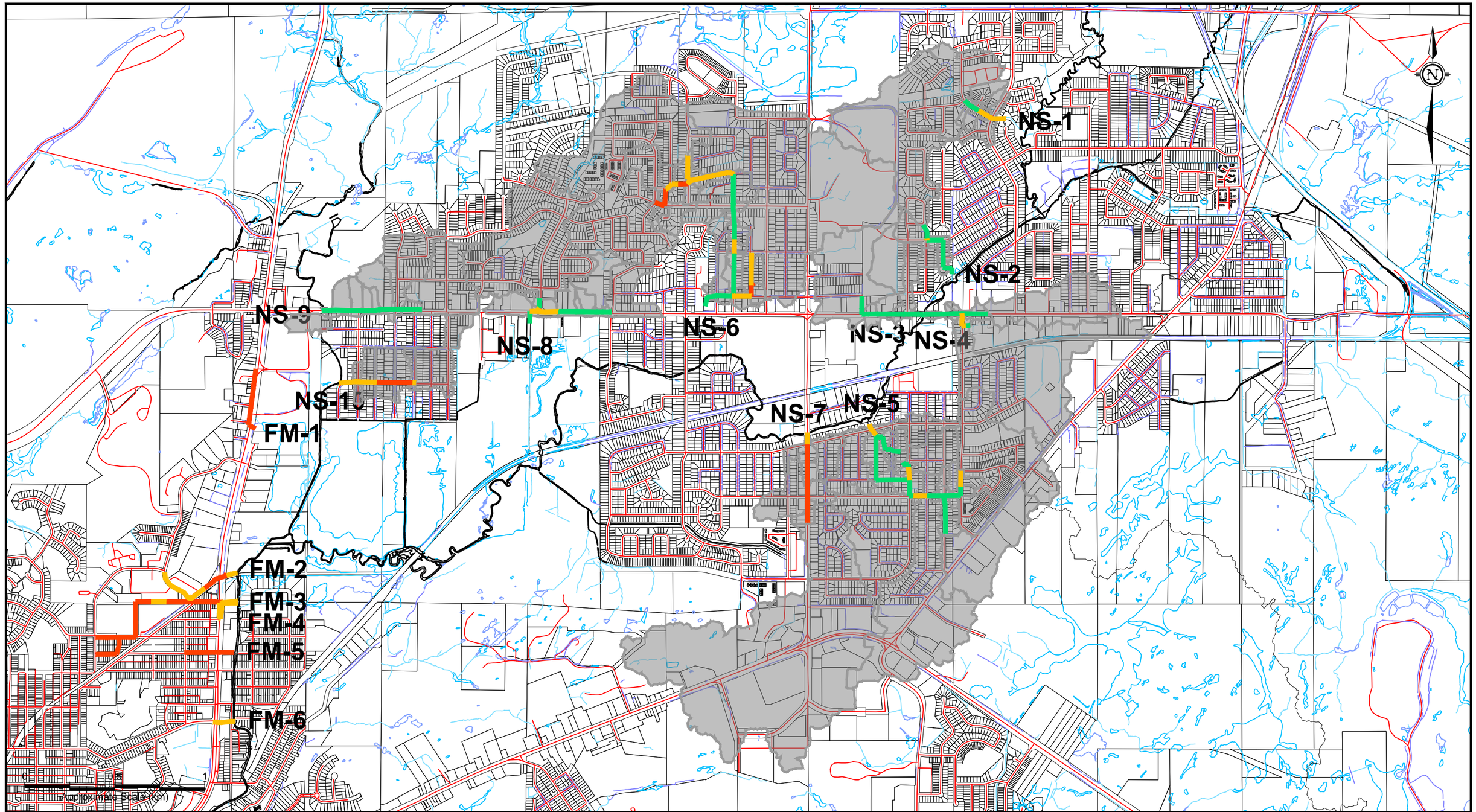
FIGURE No.: C9.2



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PROJECT: Junction Creek Subwatershed Study
City of Greater Sudbury, Ontario

TITLE: Trunk Storm Sewer System 5yr Performance - New Sudbury

DATE: Dec. 2018
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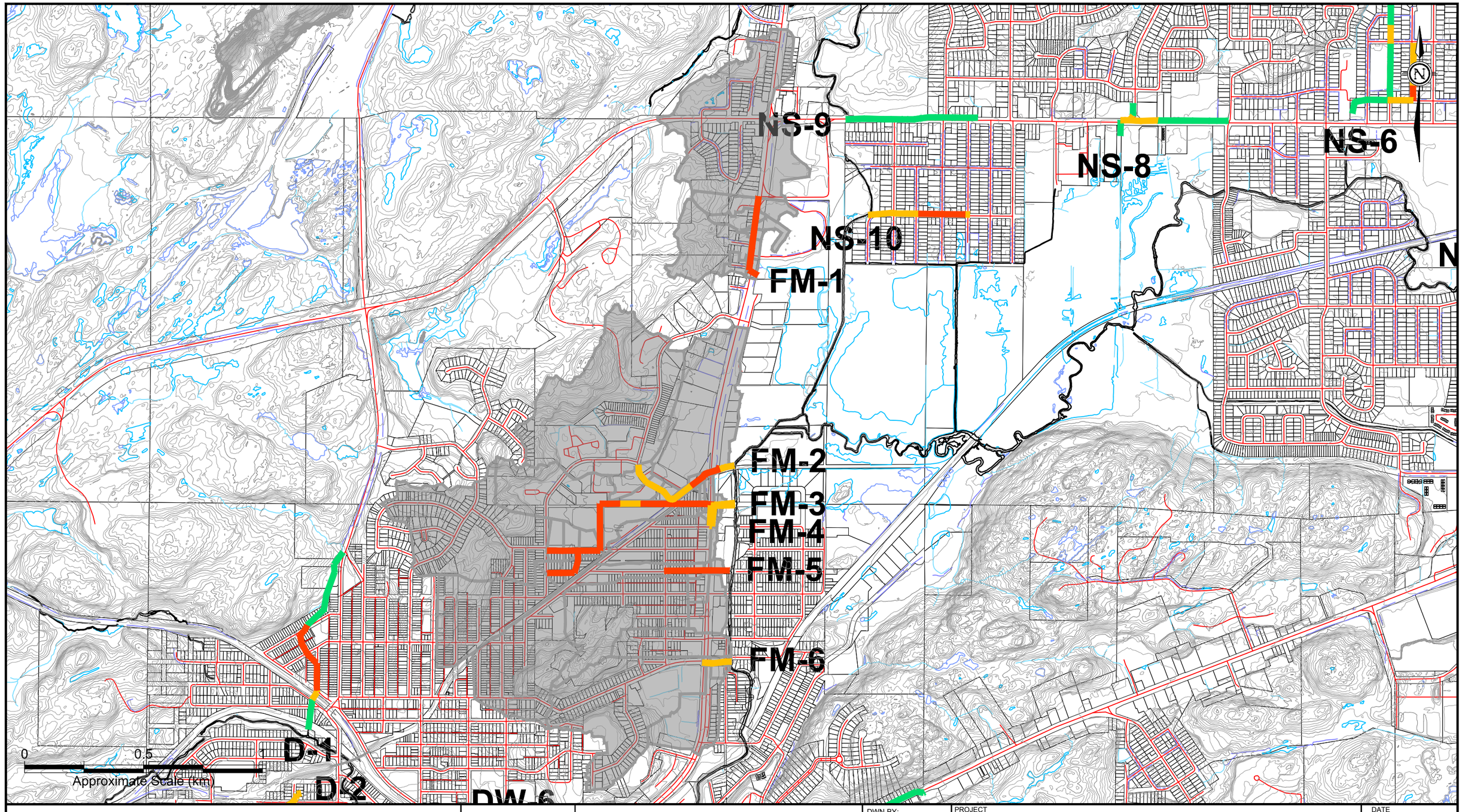
REV. No.: 1
FIGURE No.: C9.2



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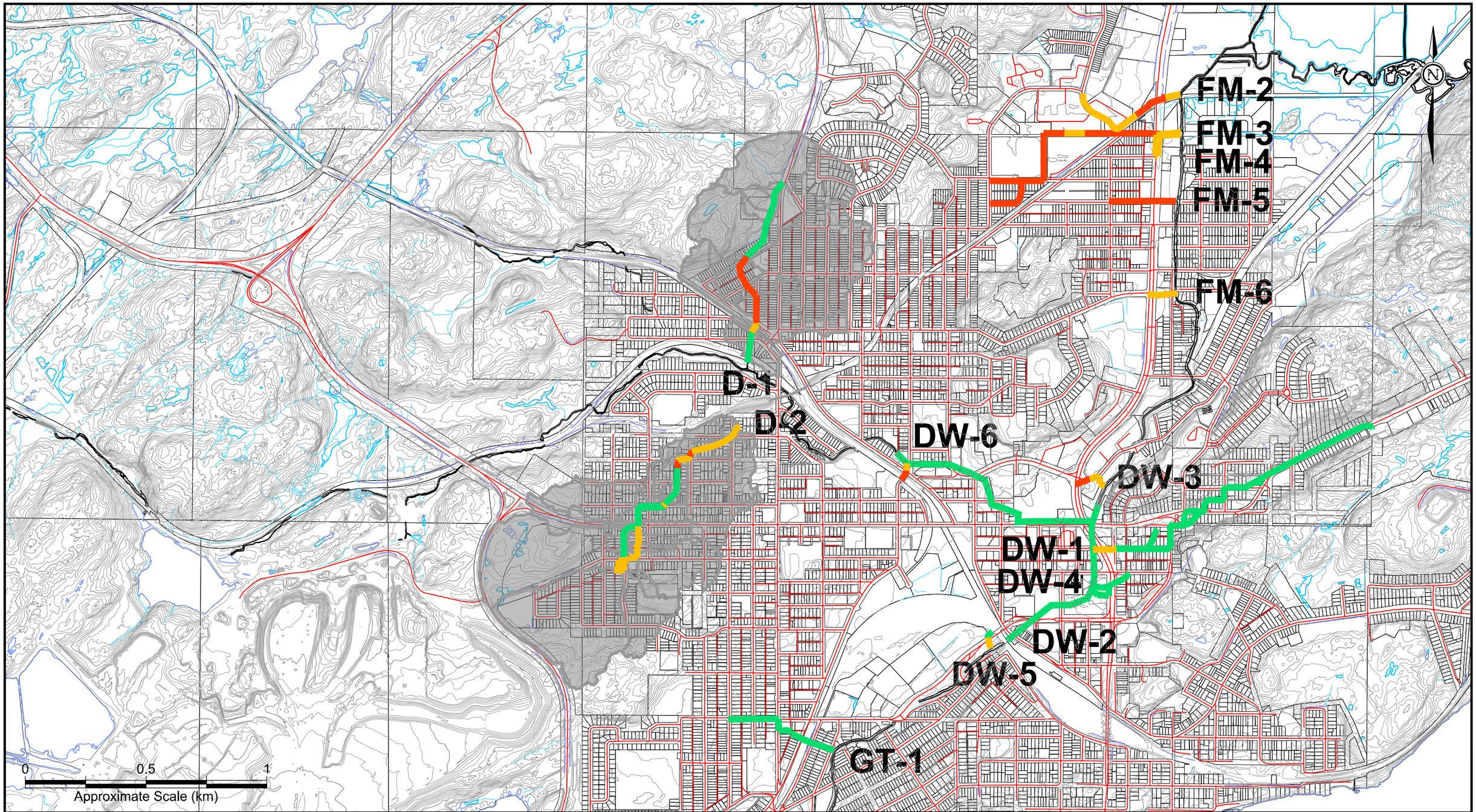
SCALE:	1:15,000

PROJECT: Junction Creek Subwatershed Study
City of Greater Sudbury, Ontario

TITLE: Trunk Storm Sewer System 5yr Performance - Flour Mill

DATE	Dec. 2018
PROJECT No.	TY161021
REV. No.	1
FIGURE No.	C9.3



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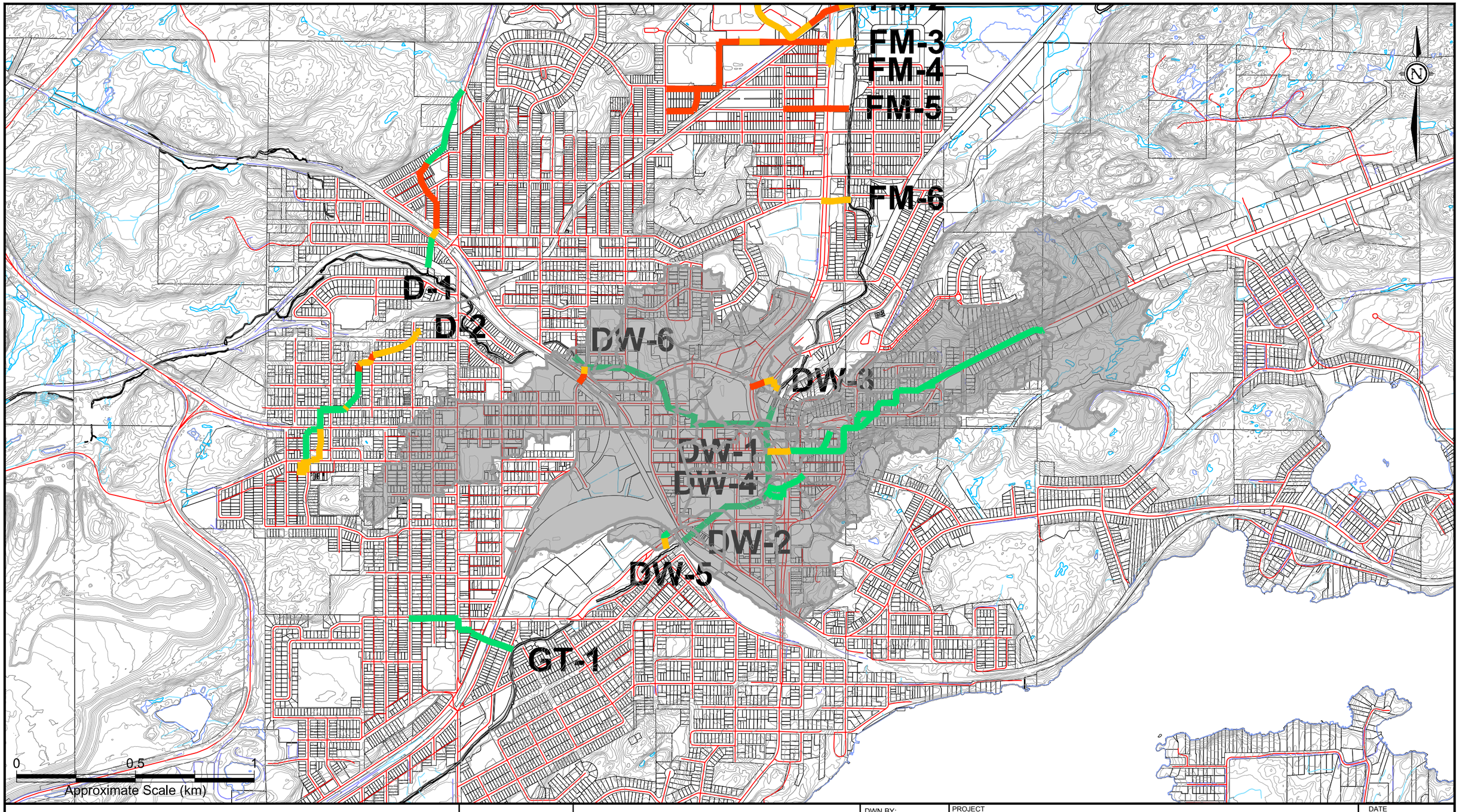
SCALE: 1:15,000

PROJECT
Junction Creek Subwatershed Study
City of Greater Sudbury, Ontario

TITLE
Trunk Storm Sewer System 5yr Performance - Donovan

DATE: Dec. 2018
PROJECT No.: TY161021
REV. No.: 1
FIGURE No.: C9.4



LEGEND

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SCALE: 1:15,000

PROJECT
Junction Creek Subwatershed Study
City of Greater Sudbury, Ontario

TITLE
Trunk Storm Sewer System 5yr Performance - South End

DATE: Dec. 2018

PROJECT No.: TY161021

REV. No.: 1

FIGURE No.: C9.5

DT-2
DW-6
DW-3
DW-1
DW-4
DW-2
DW-5
GT-1
GT-2
GT-3
GT-4
SE-1
N
0
0.5
1
Approximate Scale (km)

LEGEND

- ROAD (CGS)
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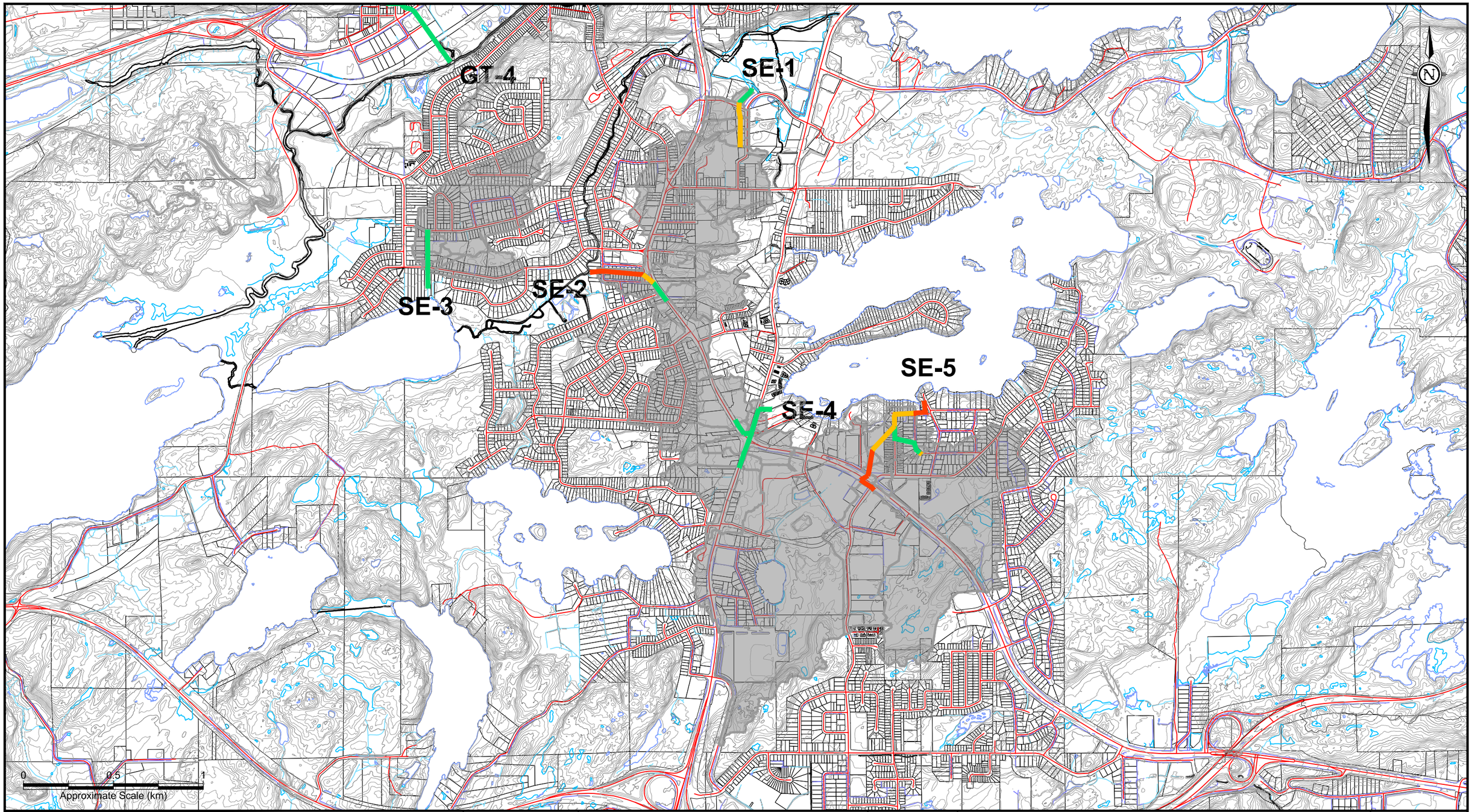
PROJECT
Junction Creek Subwatershed Study
City of Greater Sudbury, Ontario

TITLE
Trunk Storm Sewer System 5yr Performance - Gatchel

DATE: Dec. 2018
PROJECT No.: TY161021
REV. No.: 1
FIGURE No.: C9.6



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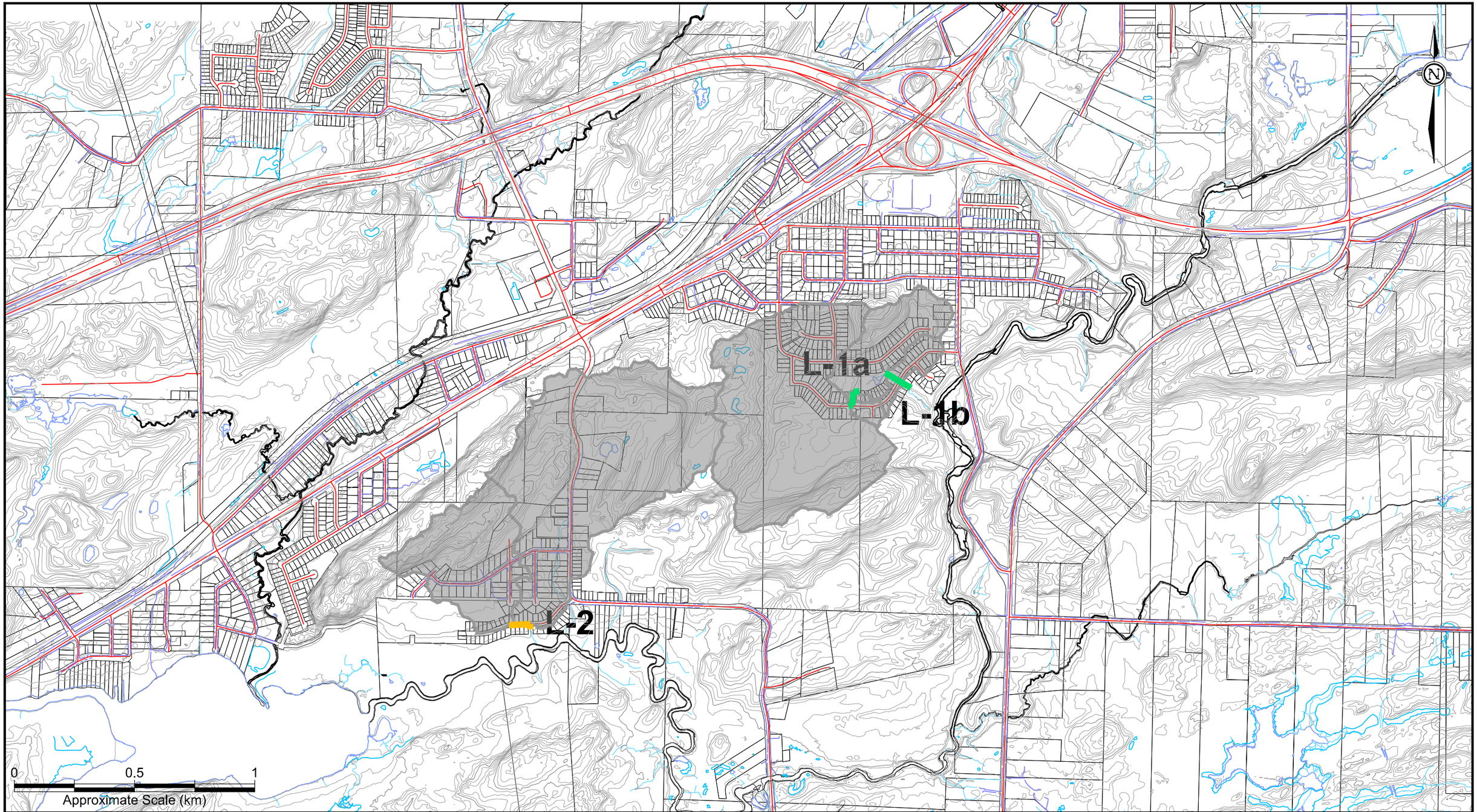
SCALE: 1:20,000

PROJECT: Junction Creek Subwatershed Study
City of Greater Sudbury, Ontario

TITLE: Trunk Storm Sewer System 5yr Performance - South End

DATE: Dec. 2018
PROJECT No.: TY161021
REV. No.: 1
FIGURE No.: C9.7



LEGEND

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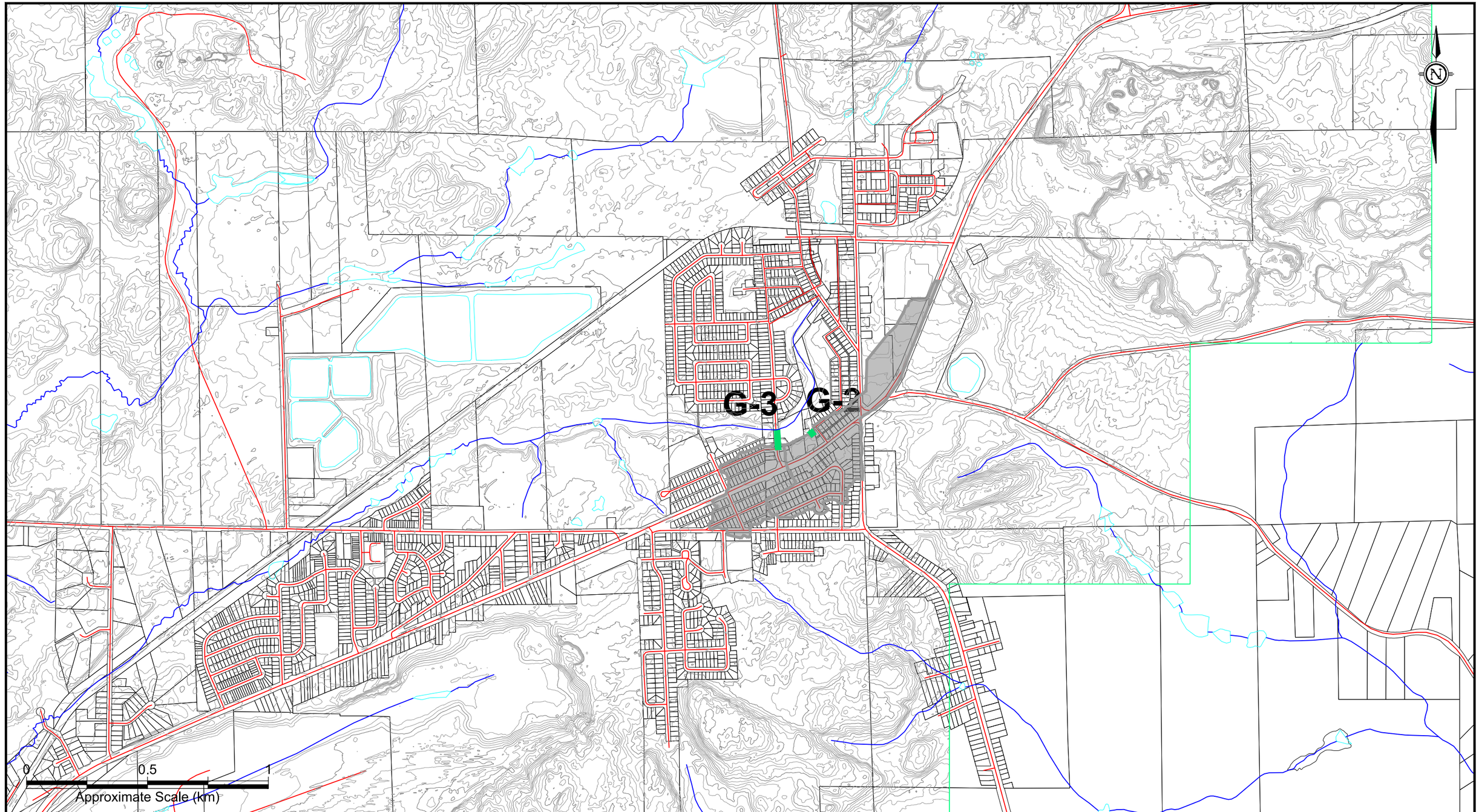
SCALE: 1:20,000

PROJECT
Junction Creek Subwatershed Study
City of Greater Sudbury, Ontario

TITLE
Trunk Storm Sewer System 5yr Performance - Lively

DATE: Dec. 2018
PROJECT No.: TY161021
REV. No.: 1
FIGURE No.: C9.8



LEGEND

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SCALE: 1:15,000

PROJECT: Junction Creek Subwatershed Study
City of Greater Sudbury, Ontario

TITLE: Trunk Storm Major System 100yr Performance - Garson

DATE: Dec. 2018
PROJECT No.: TY161021
REV. No.: 1
FIGURE No.: C10.1

NS-1

NS-2

NS-3

NS-4

NS-5

NS-6

NS-7

NS-8

NS-9

NS-1

FM-1

FM-2

FM-3

FM-4

FM-5

FM-6

0 0.5 1

Approximate Scale (km)

LEGEND

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SCALE: 1:20,000

PROJECT: Junction Creek Subwatershed Study
City of Greater Sudbury, Ontario

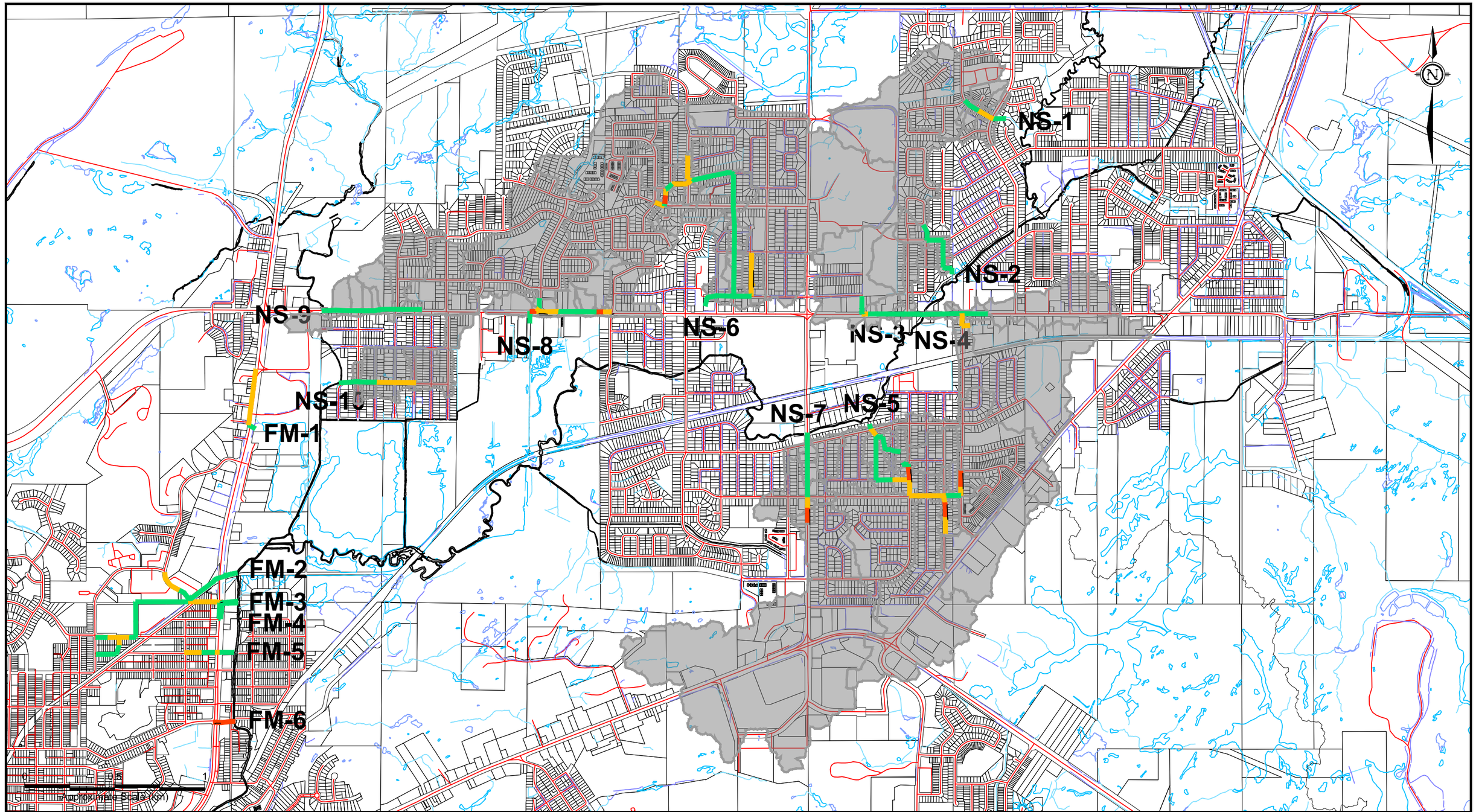
TITLE: Trunk Storm Major System 100yr Performance - New Sudbury

DATE: Dec. 2018

PROJECT No. TY161021

REV. No. 1

FIGURE No. C10.2



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wood.

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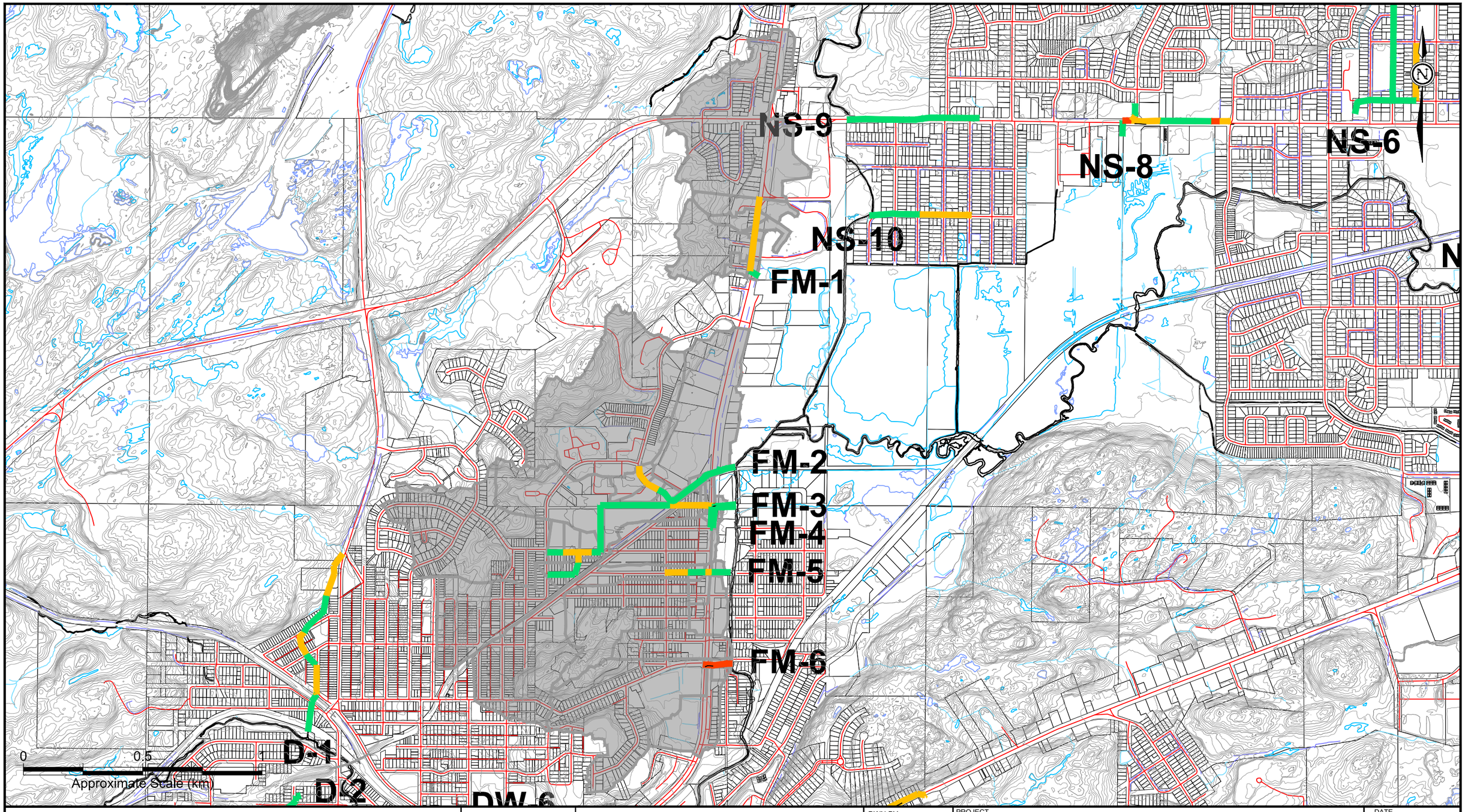
PROJECT
Junction Creek Subwatershed Study
City of Greater Sudbury, Ontario

TITLE
Trunk Storm Major System 100yr Performance - New Sudbury

DATE: Dec. 2018
PROJECT No.: TY161021
REV. No.: 1
FIGURE No.: C10.2



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SCALE: 1:15,000

PROJECT: Junction Creek Subwatershed Study
City of Greater Sudbury, Ontario

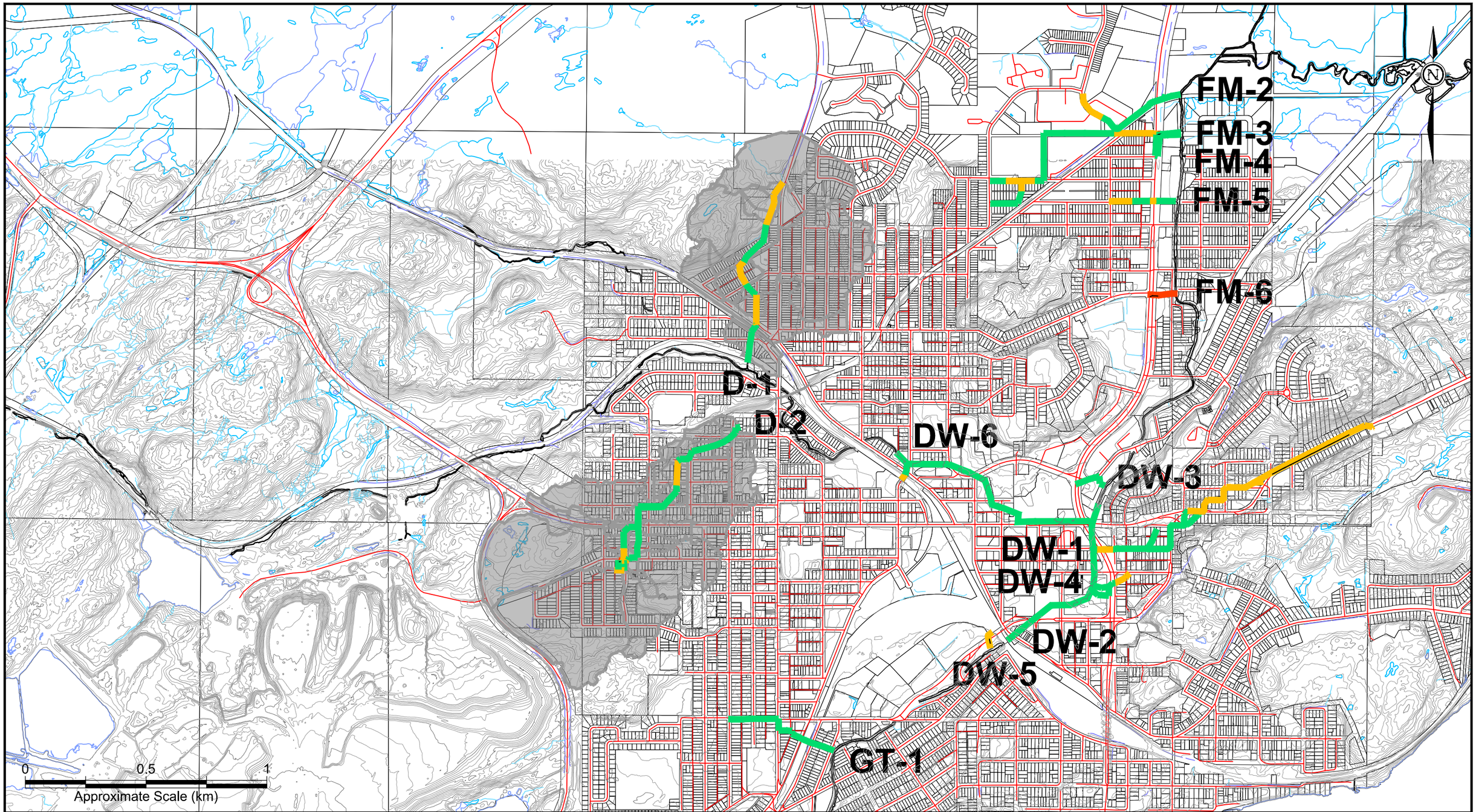
TITLE: Trunk Storm Major System 100yr Performance - Flour Mill

DATE: Dec. 2018

PROJECT No. TY161021

REV. No. 1

FIGURE No. C10.3



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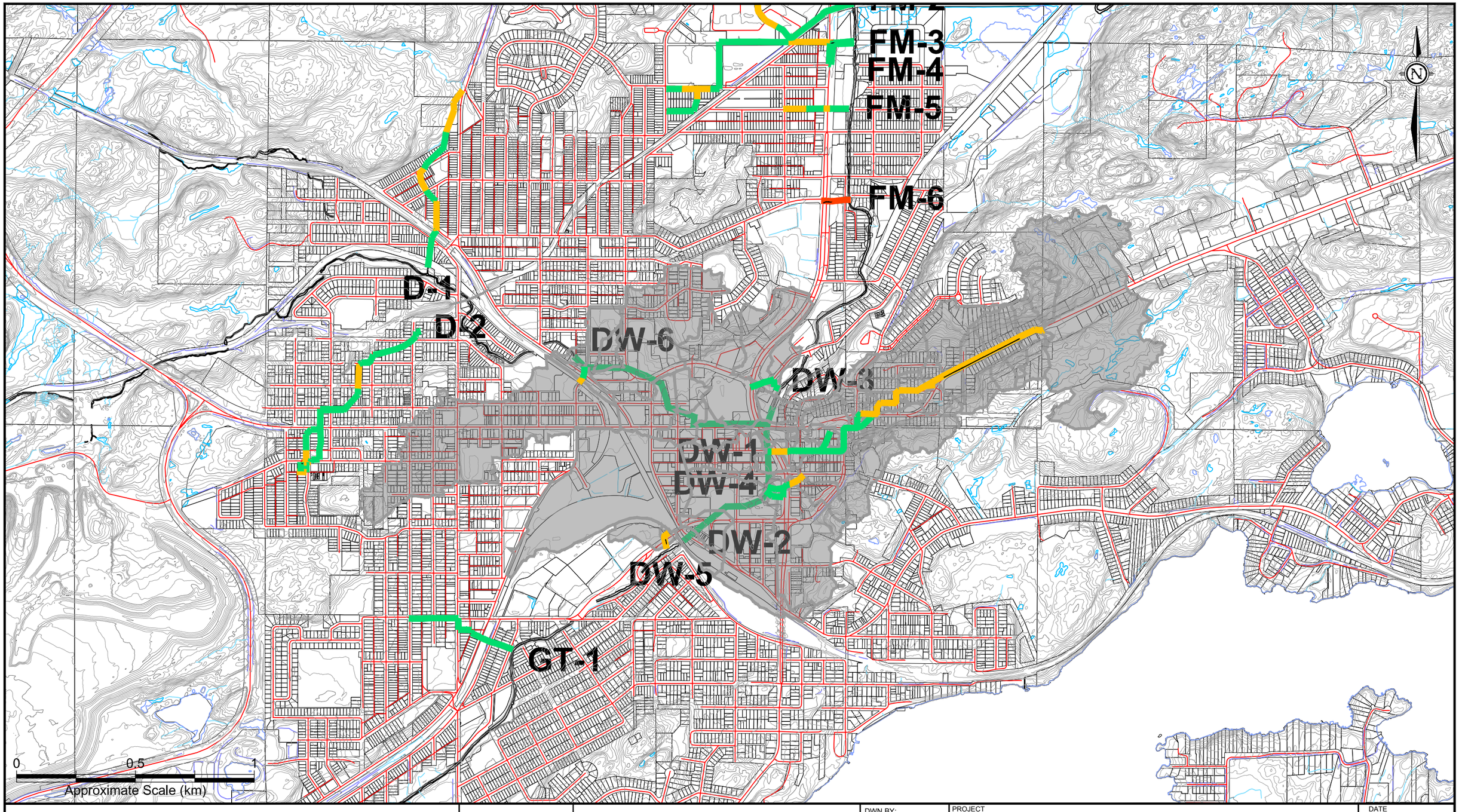
PROJECT
Junction Creek Subwatershed Study
City of Greater Sudbury, Ontario

TITLE
Trunk Storm Major System 100yr Performance - Donovan

DATE: Dec. 2018
PROJECT No.: TY161021
REV. No.: 1
FIGURE No.: C10.4



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DWN BY: KMR

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SCALE: 1:15,000

PROJECT
Junction Creek Subwatershed Study
City of Greater Sudbury, Ontario

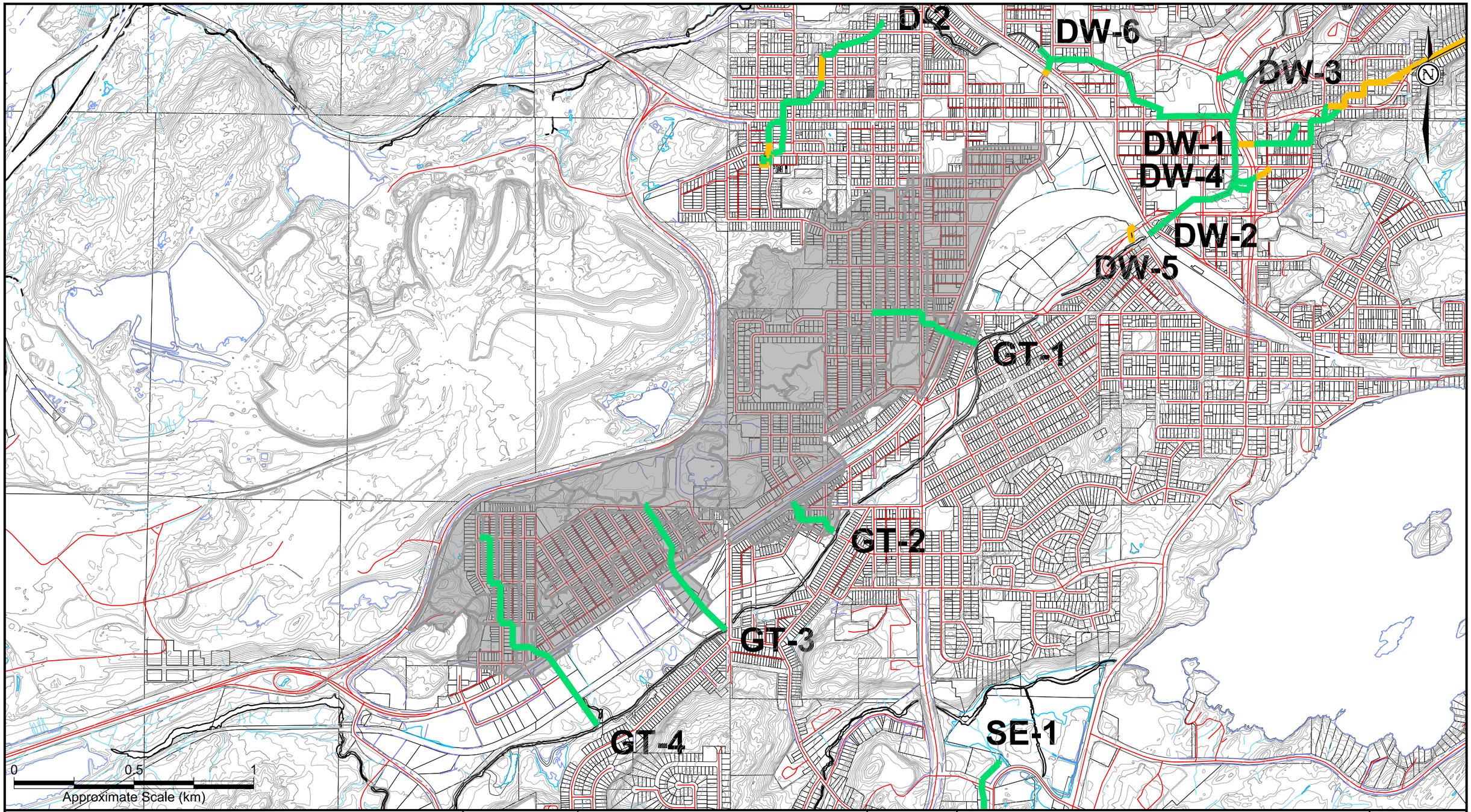
TITLE
Trunk Storm Major System 100yr Performance - South End

DATE: Dec. 2018

PROJECT No.: TY161021

REV. No.: 1

FIGURE No.: C10.5



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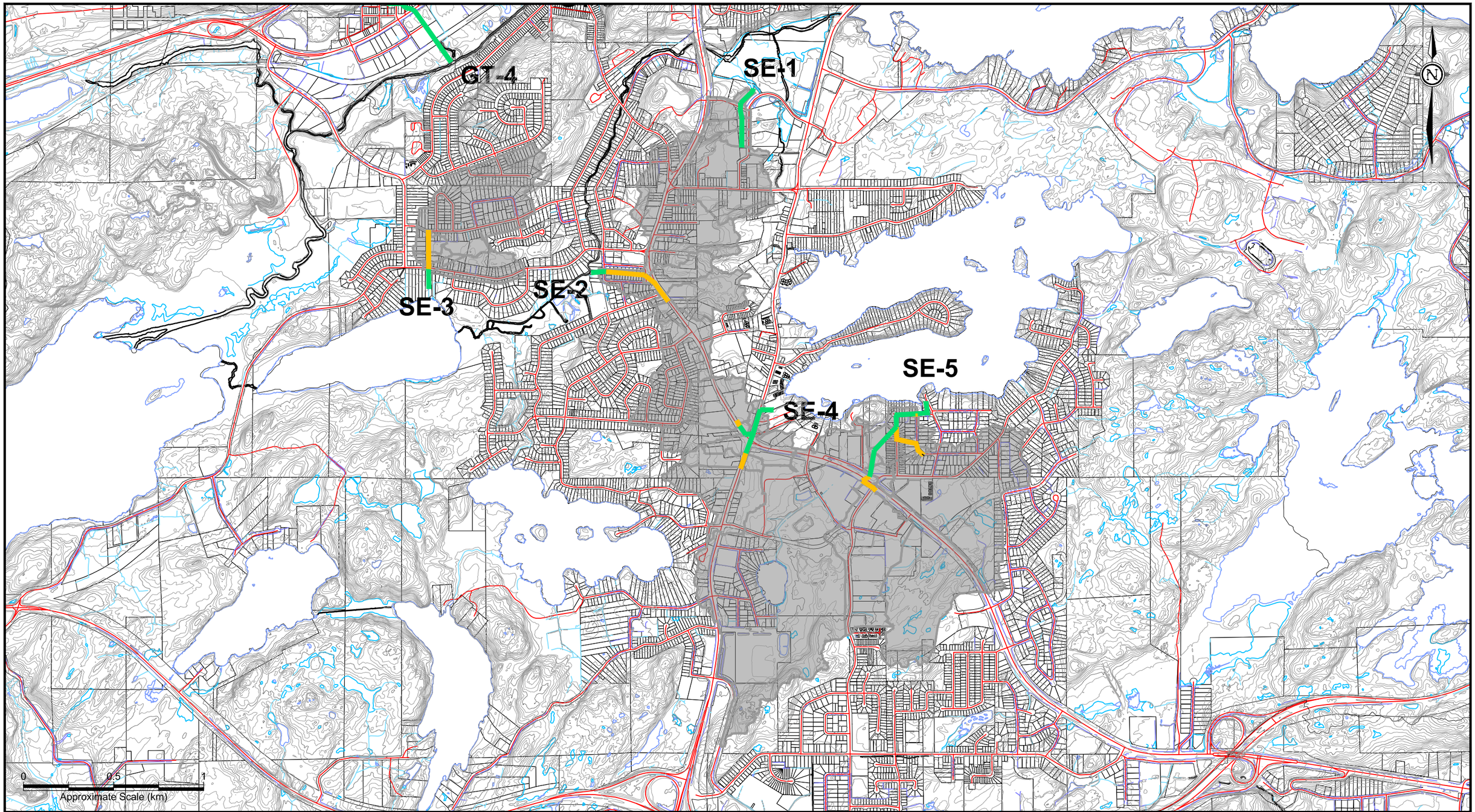
PROJECT
Junction Creek Subwatershed Study
City of Greater Sudbury, Ontario

TITLE
Trunk Storm Major System 100yr Performance - Gatchel

DATE: Dec. 2018
PROJECT No.: TY161021
REV. No.: 1
FIGURE No.: C10.6



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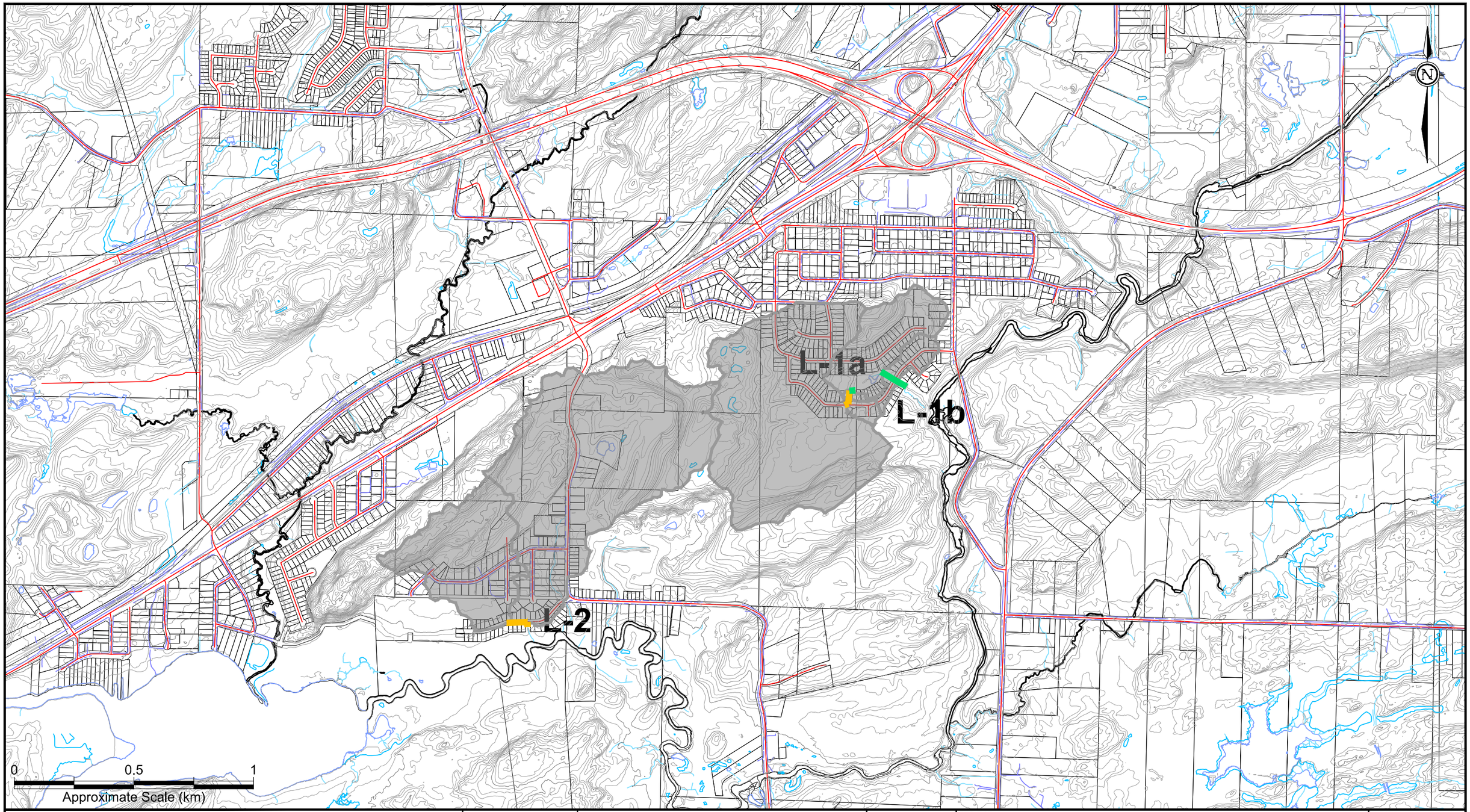
PROJECT: Junction Creek Subwatershed Study
City of Greater Sudbury, Ontario

TITLE: Trunk Storm Major System 100yr Performance - South End

DATE: Dec. 2018
PROJECT No.: TY161021
REV. No.: 1
FIGURE No.: C10.7



LEGEND

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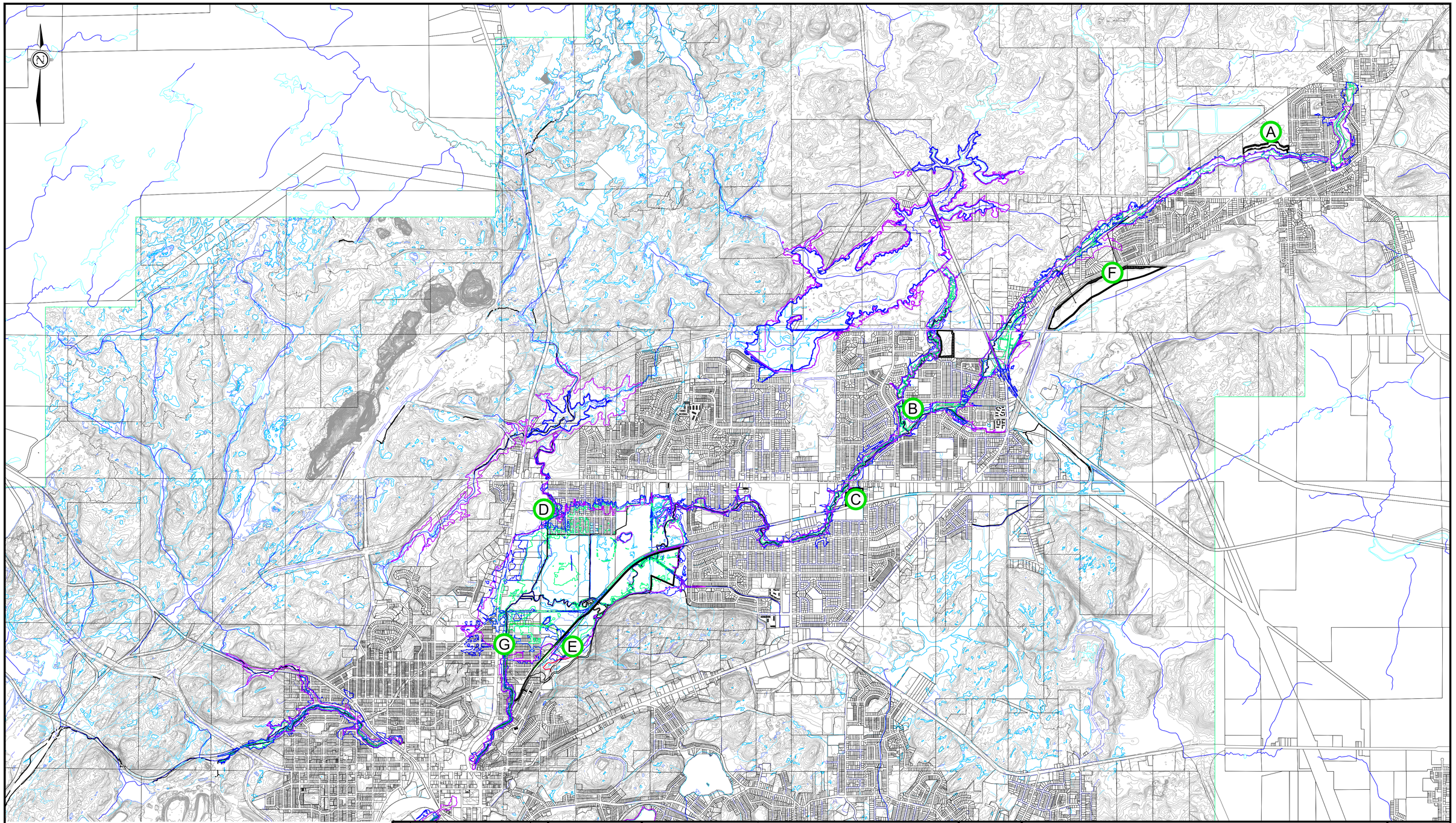
PROJECT
Junction Creek Subwatershed Study
City of Greater Sudbury, Ontario

TITLE
Trunk Storm Major System 100yr Performance - Lively

DATE: Dec. 2018
PROJECT No.: TY161021
REV. No.: 1
FIGURE No.: C10.8



LEGEND

- ROAD
- LOT LINE
- WATERCOURSE & WATERBODY
- MINOR CONTOUR (2m)
- MAJOR CONTOUR (10m)
- HIGHLIGHTED CONTOUR
- EXISTING REGULATORY FLOODLINE (NDCA)
- PRELIMINARY 2YR FLOODLINE
- PRELIMINARY 100YR FLOODLINE
- PRELIMINARY TIMMINS FLOODLINE

A STORMWATER MASTER PLAN OPTION

0 0,5 1
Approximate Scale (km)

REV	D/M/Y	ISSUE/REVISION DESCRIPTION	ENG.

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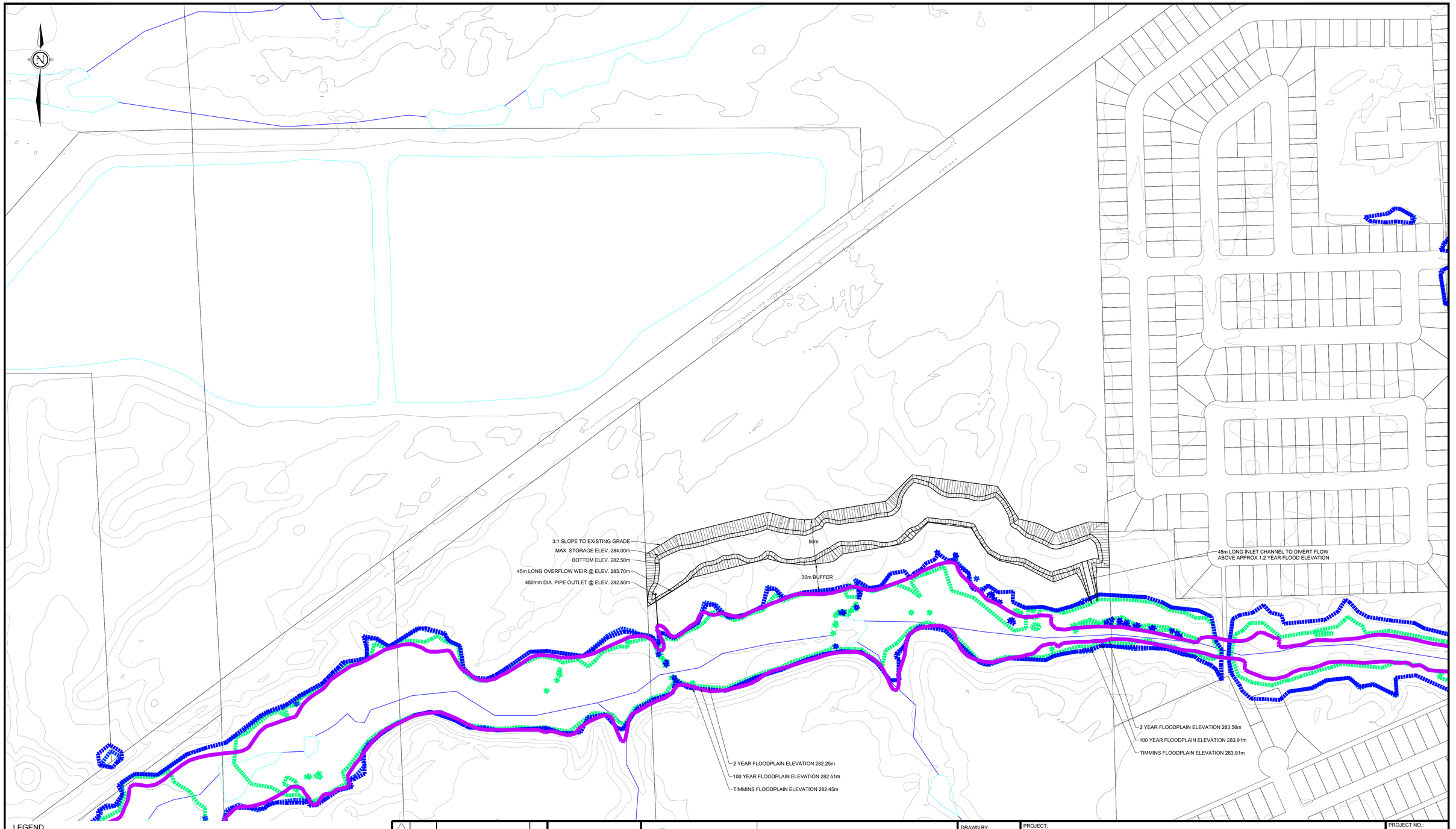
DRAWN BY: KMR
REVIEWED BY: MDO
APPROVED BY:

PROJECT: JUNCTION CREEK SUBWATERSHED STUDY
SUDBURY, ONTARIO

TITLE: STORMWATER MANAGEMENT PLAN
OPTION KEY PLAN

PROJECT NO.: TY161021
REVISION NO.
DATE: DEC. 2018
SCALE: 1:20,000
DRAWING NO.: C11



REV	D/M/Y	ISSUE/REVISION DESCRIPTION	ENG.

Sudbury Greater | Grand

City of Greater Sudbury

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131 Fielding Road
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P3Y 1L7
705-682-2632
wood.

DRAWN BY: KMR

REVIEWED BY: MDO

APPROVED BY:

PROJECT: JUNCTION CREEK SUBWATERSHED STUDY
SUDBURY, ONTARIO

TITLE: OPTION A - GARSON STORMWATER MANAGEMENT FACILITY
CONCEPT PLAN

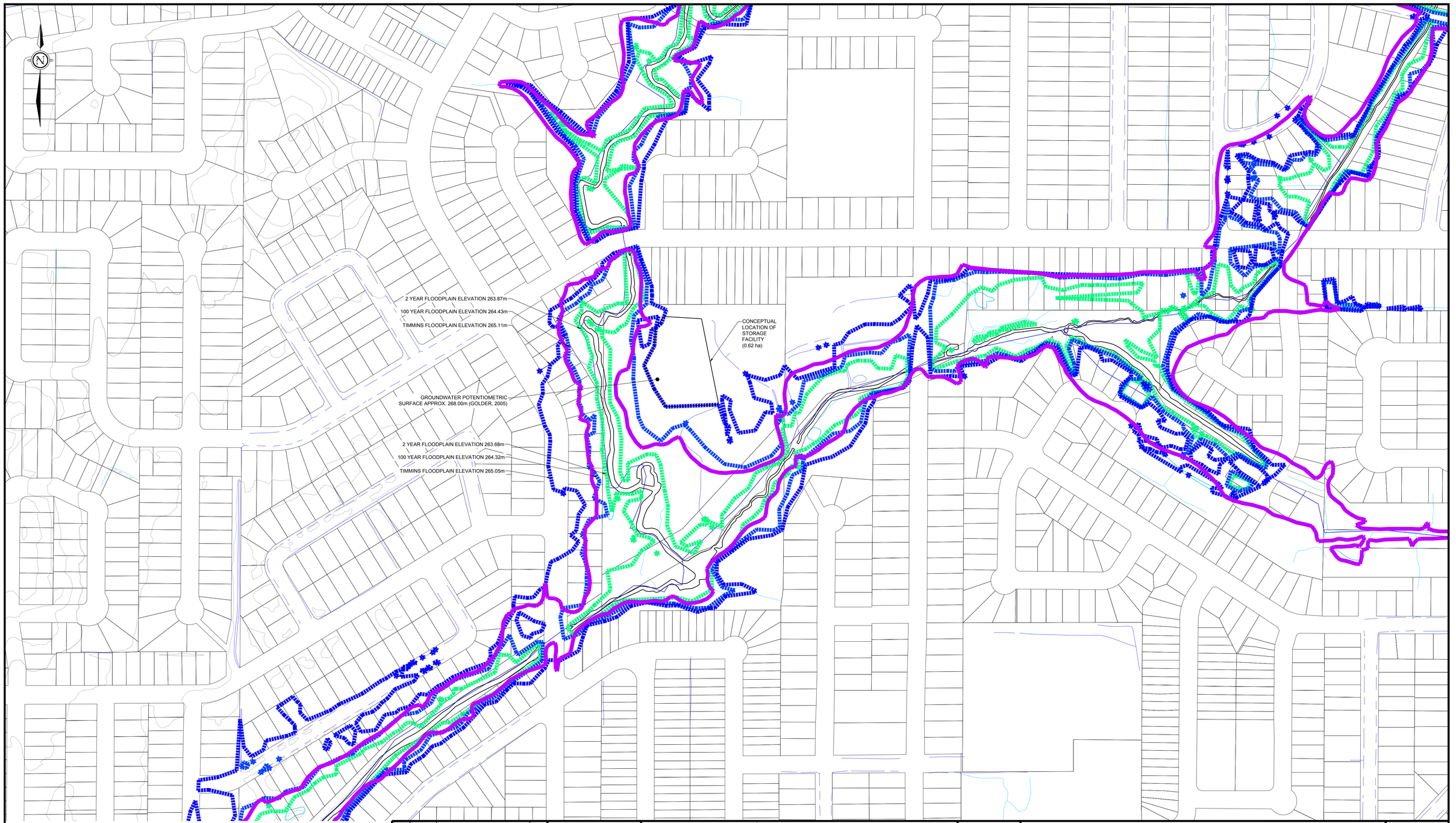
PROJECT NO.: TY161021

REVISION NO.

DATE: DEC. 2018

SCALE: 1:2,000

DRAWING NO.: C11.1



LEGEND

- ROAD
- LOT LINE
- WATERCOURSE & WATERBODY
- MINOR CONTOUR (2m)
- MAJOR CONTOUR (10m)
- EXISTING REGULATORY FLOODLINE (NDCA)
- PRELIMINARY 2YR FLOODLINE (HEC-RAS)
- PRELIMINARY 100YR FLOODLINE (HEC-RAS)
- PRELIMINARY TIMMINS FLOODLINE (HEC-RAS)
- CONCEPTUAL SWM FACILITY CONTOUR

0 25 50 75
Approximate Scale (m)

REV	D/M/Y	ISSUE/REVISION DESCRIPTION	ENG.
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DRAWN BY: KMR
REVIEWED BY: MDO
APPROVED BY:

PROJECT: JUNCTION CREEK SUBWATERSHED STUDY
SUDBURY, ONTARIO

TITLE: OPTION B1 - TWIN FORKS STORMWATER MANAGEMENT FACILITY CONCEPT PLAN

PROJECT NO.: TY161021
REVISION NO.:
DATE: DEC. 2018
SCALE: 1:2,000
DRAWING NO.: C11.2a

2 YEAR FLOODPLAIN ELEVATION 265.93m

100 YEAR FLOODPLAIN ELEVATION 267.00m

TIMMINS FLOODPLAIN ELEVATION 268.56m

CONCEPTUAL LOCATION OF STORAGE FACILITY (4.87 ha)

BOTTOM ELEV. 265.00m

BERM TOP ELEV. 269.00m

2 YEAR FLOODPLAIN ELEVATION 265.32m

100 YEAR FLOODPLAIN ELEVATION 265.84m

TIMMINS FLOODPLAIN ELEVATION 266.73m

EXISTING STORM SEWER OUTLET COULD POTENTIALLY BE REDIRECTED INTO FACILITY

LEGEND

- ROAD
- LOT LINE
- WATERCOURSE & WATERBODY
- MINOR CONTOUR (2m)
- MAJOR CONTOUR (10m)
- EXISTING REGULATORY FLOODLINE (NDCA)
- PRELIMINARY 2YR FLOODLINE (HEC-RAS)
- PRELIMINARY 100YR FLOODLINE (HEC-RAS)
- PRELIMINARY TIMMINS FLOODLINE (HEC-RAS)
- CONCEPTUAL SWM FACILITY CONTOUR

0 25 50 75
Approximate Scale (m)

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DRAWN BY: KMR

REVIEWED BY: MDO

APPROVED BY:

PROJECT: JUNCTION CREEK SUBWATERSHED STUDY
SUDBURY, ONTARIO

TITLE: OPTION B2 - MALEY BRANCH STORMWATER MANAGEMENT FACILITY CONCEPT PLAN

PROJECT NO.: TY161021

REVISION NO.

DATE: DEC. 2018

SCALE: 1:2,000

DRAWING NO.: C11.2b

2 YEAR FLOODPLAIN ELEVATION 262.19m
100 YEAR FLOODPLAIN ELEVATION 263.48m
TIMMINS FLOODPLAIN ELEVATION 264.41m
TRUNK STORM SEWER OUTFALL NS-4
INVERT 260.24m
TRUNK STORM SEWER OUTFALL NS-3
INVERT 260.28m

CONNECT TO EXISTING TRUNK STORM
SEWER SYSTEM @ INVERT 261.66m

2 YEAR FLOODPLAIN ELEVATION 261.96m
100 YEAR FLOODPLAIN ELEVATION 262.55m
TIMMINS FLOODPLAIN ELEVATION 264.38m

GROUNDWATER POTENTIOMETRIC
SURFACE APPROX. 267.50m (GOLDER, 2005)

2 YEAR FLOODPLAIN ELEVATION 261.59m
100 YEAR FLOODPLAIN ELEVATION 262.35m
TIMMINS FLOODPLAIN ELEVATION 264.29m

BOTTOM ELEV. 261.50m
MATCH TO EXISTING
GRADE @ 3:1 SLOPE

2 YEAR FLOODPLAIN ELEVATION 261.53m
100 YEAR FLOODPLAIN ELEVATION 262.13m
TIMMINS FLOODPLAIN ELEVATION 263.41m

LEGEND

- ROAD
- LOT LINE
- WATERCOURSE & WATERBODY
- MINOR CONTOUR (2m)
- MAJOR CONTOUR (10m)
- EXISTING REGULATORY FLOODLINE (NDCA)
- PRELIMINARY 2YR FLOODLINE (HEC-RAS)
- PRELIMINARY 100YR FLOODLINE (HEC-RAS)
- PRELIMINARY TIMMINS FLOODLINE (HEC-RAS)
- CONCEPTUAL SWM FACILITY CONTOUR
- CONCEPTUAL SWM FACILITY SLOPE
- TRUNK STORM SEWER
- TRUNK STORM SEWER SUBCATCHMENT

0 25 50 75
Approximate Scale (m)

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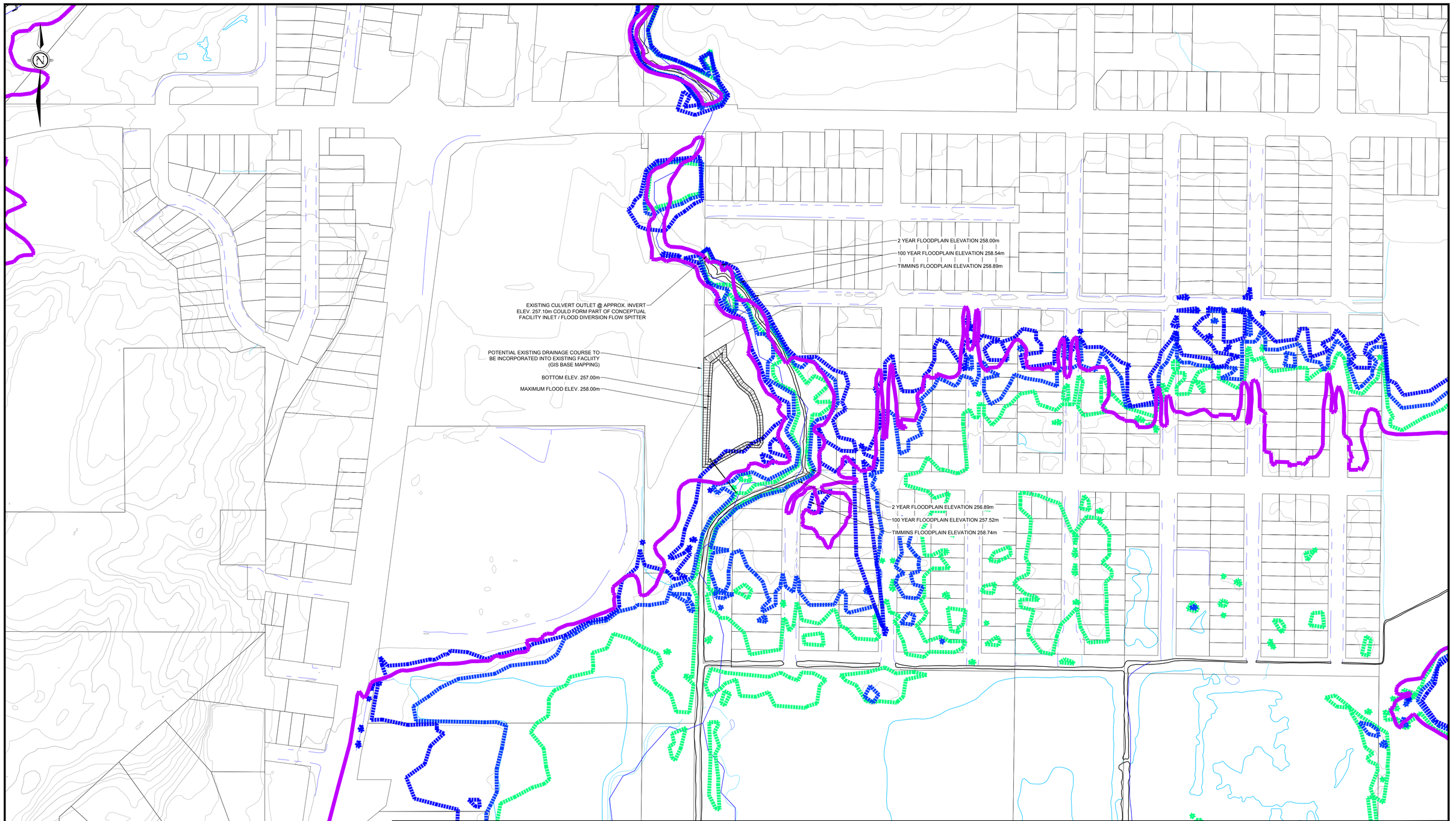
DRAWN BY: KMR
REVIEWED BY: MDO
APPROVED BY:

PROJECT: JUNCTION CREEK SUBWATERSHED STUDY
SUDBURY, ONTARIO

TITLE: OPTION C - LASALLE BLVD. STORMWATER MANAGEMENT FACILITY
CONCEPT PLAN

PROJECT NO.: TY161021
REVISION NO.
DATE: DEC. 2018
SCALE: 1:3,000
DRAWING NO.: C11.3



LEGEND

- ROAD
- LOT LINE
- WATERCOURSE & WATERBODY
- MINOR CONTOUR (2m)
- MAJOR CONTOUR (10m)
- HIGHLIGHTED CONTOUR
- EXISTING REGULATORY FLOODLINE (NDCA)
- PRELIMINARY 2YR FLOODLINE
- PRELIMINARY 100YR FLOODLINE
- PRELIMINARY TIMMINS FLOODLINE
- OVERALL HYDROLOGIC SUBCATCHMENT BOUNDARY
- CONCEPTUAL SWM FACILITY CONTOUR

0 25 50 75
Approximate Scale (m)

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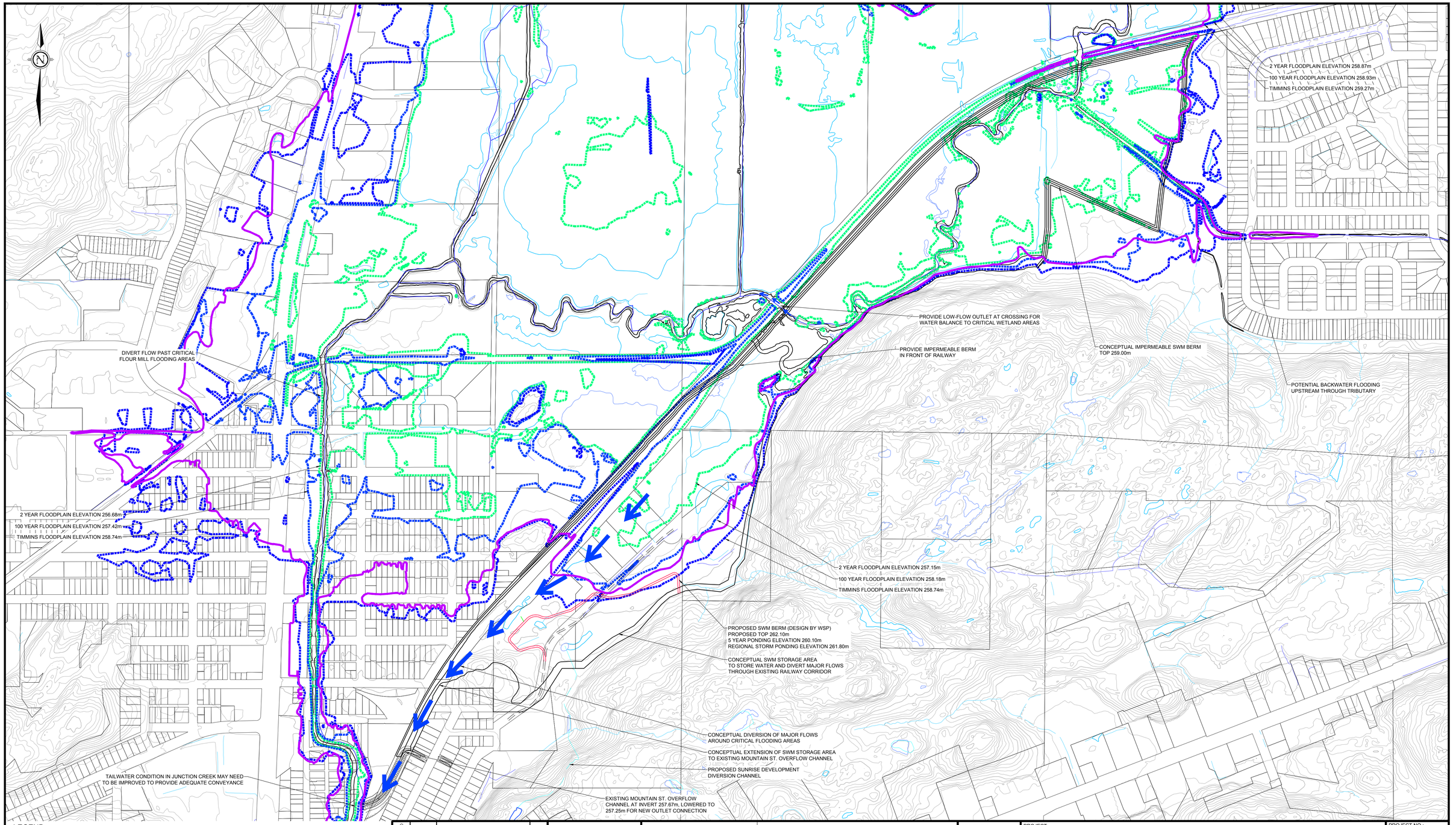
DRAWN BY: KMR
REVIEWED BY: MDO
APPROVED BY:

PROJECT: JUNCTION CREEK SUBWATERSHED STUDY
SUDBURY, ONTARIO

TITLE: OPTION D - NICKELDALE STORMWATER MANAGEMENT FACILITY CONCEPT PLAN

PROJECT NO.: TY161021
REVISION NO.:
DATE: DEC. 2018
SCALE: 1:1,000
DRAWING NO.: C11.4



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DRAWN BY: KMR

REVIEWED BY: MDO

APPROVED BY:

PROJECT: JUNCTION CREEK SUBWATERSHED STUDY
SUDBURY, ONTARIO

TITLE: PONDEROSA DIVERSION & STORMWATER MANAGEMENT FACILITY CONCEPT PLAN

PROJECT NO.: TY161021

REVISION NO.

DATE: DEC. 2018

SCALE: 1:4,000

DRAWING NO.: C11.5a

TOP OF CONCEPTUAL BERM 259.0m
REGIONAL (TIMMINS) FLOODPLAIN ELEVATION APPROX. 258.8m
APPROXIMATELY 23.3 ha OF RESIDENTIAL AREA ENCLOSED BY BERM

TOP OF CONCEPTUAL BERM 259.0m
REGIONAL (TIMMINS) FLOODPLAIN ELEVATION APPROX. 258.8m
APPROXIMATELY 23.3 ha OF RESIDENTIAL AREA ENCLOSED BY BERM

LEGEND

- ROAD
- LOT LINE
- WATERCOURSE & WATERBODY
- MINOR CONTOUR (2m)
- MAJOR CONTOUR (10m)
- HIGHLIGHTED CONTOUR
- EXISTING REGULATORY FLOODLINE (NDCA)
- PRELIMINARY 2YR FLOODLINE
- PRELIMINARY 100YR FLOODLINE
- PRELIMINARY TIMMINS FLOODLINE
- OVERALL HYDROLOGIC SUBCATCHMENT BOUNDARY
- CONCEPTUAL FLOOD BERM

0 50 100 150
Approximate Scale (m)

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DRAWN BY: KMR
REVIEWED BY: MDO
APPROVED BY:

PROJECT: JUNCTION CREEK SUBWATERSHED STUDY
SUDBURY, ONTARIO

TITLE: PONDEROSA PUMPING BERMS

PROJECT NO.: TY161021
REVISION NO.
DATE: DEC. 2018
SCALE: 1:5,000
DRAWING NO.: C11.5b

2 YEAR FLOODPLAIN ELEVATION 277.94m
100 YEAR FLOODPLAIN ELEVATION 278.54m
TIMMINS FLOODPLAIN ELEVATION 278.97m
EXISTING CONSTRICTION THROUGH RAILWAY BERM MAY BE INCORPORATED INTO DESIGN OF FLOW DIVERSION
PIPE INLET TO RECEIVE DIVERTED FLOOD WATER

2 YEAR FLOODPLAIN ELEVATION 274.00m
100 YEAR FLOODPLAIN ELEVATION 274.10m
TIMMINS FLOODPLAIN ELEVATION 274.17m

ROUTE INLET PIPE THROUGH EXISTING HYDRO CORRIDOR

2 YEAR FLOODPLAIN ELEVATION 272.16m
100 YEAR FLOODPLAIN ELEVATION 272.41m
TIMMINS FLOODPLAIN ELEVATION 272.56m

6m

GROUNDWATER POTENTIOMETRIC SURFACE AS HIGH AS 278.00m IN SOME AREAS (GOLDER, 2005)

ROUTE OUTLET PIPE ALONG CARR AVENUE

MAX. STORAGE ELEV. 277.00m
BOTTOM ELEV. 275.15m
3:1 SLOPE TO EXISTING GRADE
6m BUFFER FROM EXISTING RIGHT-OF-WAY

SLOPE UP TO 277.00m @ 3:1 FROM EXISTING GRADE
2m WIDE BERM ELEV. 277.00m
POND LIMIT BASED ON PREVIOUS CITY OF SUDBURY CONCEPT DESIGN AND EXTENDED TO PROPERTY LIMITS

6m

LEGEND

- ROAD
- LOT LINE
- WATERCOURSE & WATERBODY
- MINOR CONTOUR (2m)
- MAJOR CONTOUR (10m)
- EXISTING REGULATORY FLOODLINE (NDCA)
- PRELIMINARY 2YR FLOODLINE (HEC-RAS)
- PRELIMINARY 100YR FLOODLINE (HEC-RAS)
- PRELIMINARY TIMMINS FLOODLINE (HEC-RAS)
- CONCEPTUAL SWM FACILITY CONTOUR
- CONCEPTUAL SWM FACILITY SLOPE

0 25 50 75 Approximate Scale (m)

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DRAWN BY: KMR
REVIEWED BY: MDO
APPROVED BY:

PROJECT: JUNCTION CREEK SUBWATERSHED STUDY
SUDBURY, ONTARIO

TITLE: OPTION F - DIVERSION AND FACILITY EAST OF DONNELY DRIVE CONCEPT PLAN

PROJECT NO.: TY161021
REVISION NO.
DATE: DEC. 2018
SCALE: 1:3,000
DRAWING NO.: C11.6