



THE CORPORATION OF THE MUNICIPALITY OF RED LAKE COCHENOUR INFRASTRUCTURE UPGRADES

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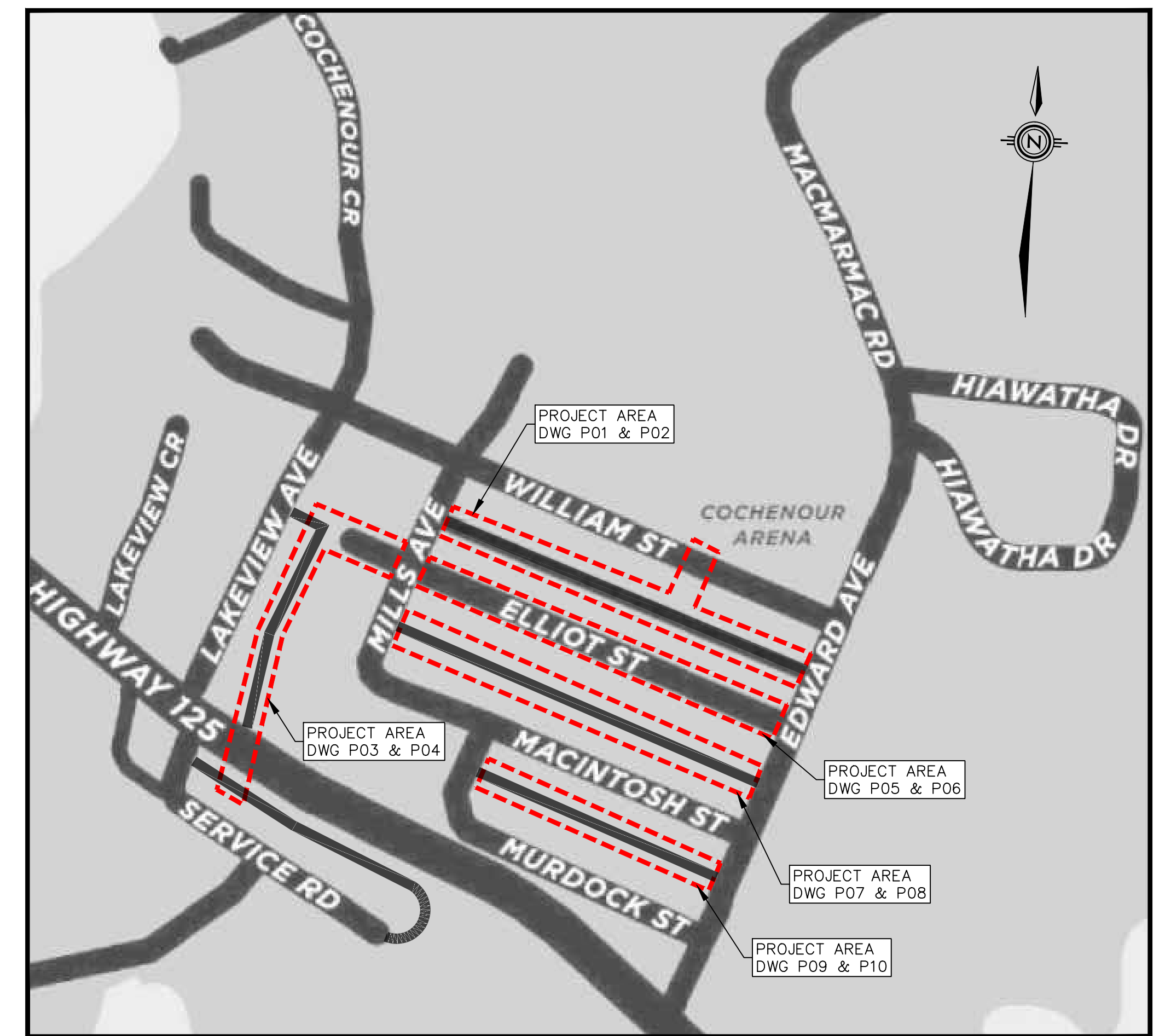
COVER SHEET

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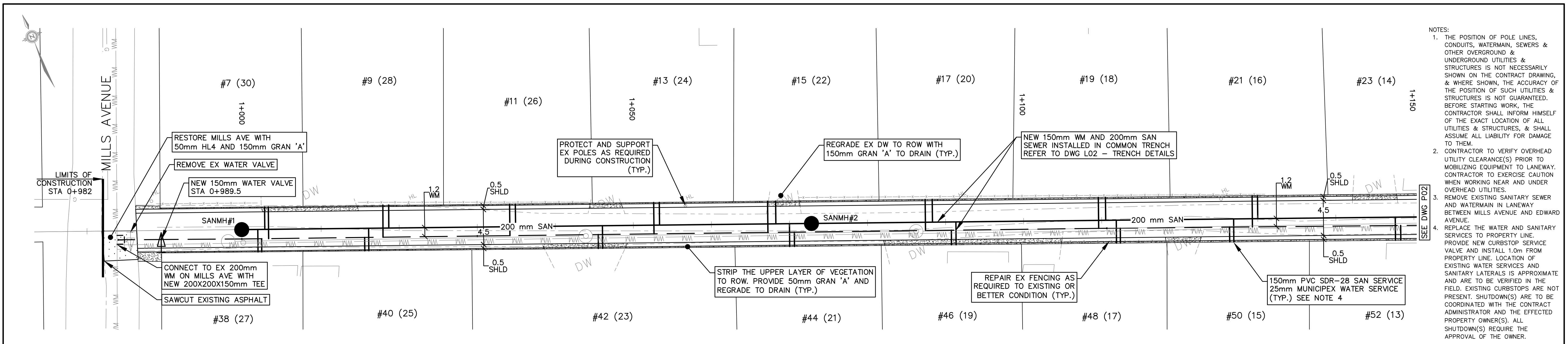
KEY PLAN



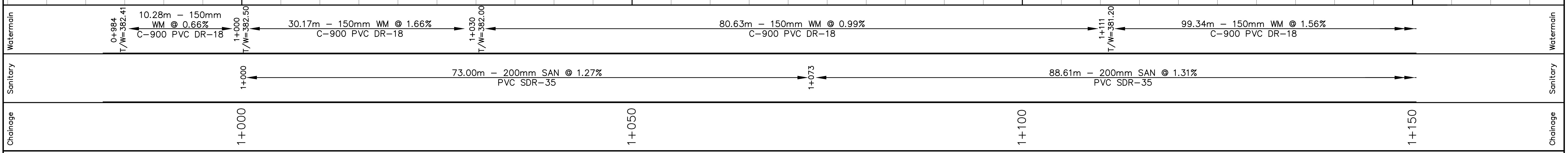
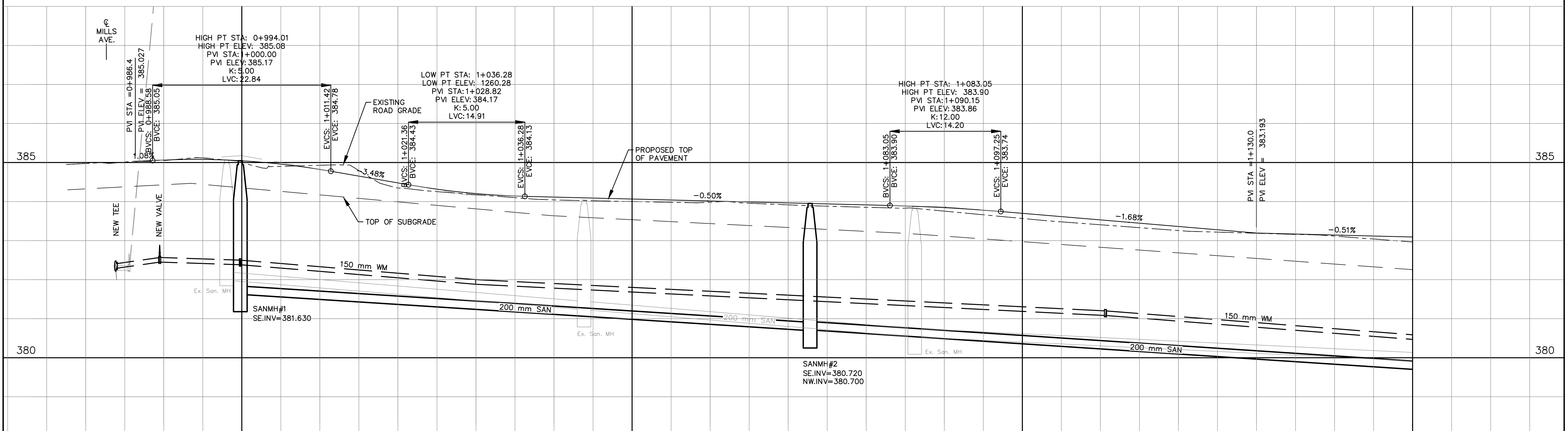
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H-369682
FEBRUARY 2023

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- NOTES:
- THE POSITION OF POLE LINES, CONDUITS, WATERMAIN, SEWERS & OTHER OVERGROUND & UNDERGROUND UTILITIES & STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWING, & WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES & STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL UTILITIES & STRUCTURES, & SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
 - CONTRACTOR TO VERIFY OVERHEAD UTILITY CLEARANCE(S) PRIOR TO MOBILIZING EQUIPMENT TO LANEWAY. CONTRACTOR TO EXERCISE CAUTION WHEN WORKING NEAR AND UNDER OVERHEAD UTILITIES.
 - REMOVE EXISTING SANITARY SEWER AND WATERMAIN IN LANEWAY BETWEEN MILLS AVENUE AND EDWARD AVENUE.
 - REPLACE THE WATER AND SANITARY SERVICES TO PROPERTY LINE. PROVIDE NEW CURBSTOP SERVICE VALVE AND INSTALL 1.0m FROM PROPERTY LINE. LOCATION OF EXISTING WATER SERVICES AND SANITARY LATERALS IS APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD. EXISTING CURBSTOPS ARE NOT PRESENT. SHUTDOWN(S) ARE TO BE COORDINATED WITH THE CONTRACT ADMINISTRATOR AND THE EFFECTED PROPERTY OWNER(S). ALL SHUTDOWN(S) REQUIRE THE APPROVAL OF THE OWNER.



LEGEND:

PROPOSED	EXISTING	OTHER
<ul style="list-style-type: none"> STORM SEWER CATCH-BASIN STORM MANHOLE SANITARY SEWER SANITARY MANHOLE CURB BOX WATERVALVE WATERMAIN BELL MANHOLE HYDRANT REDUCER 	<ul style="list-style-type: none"> SWALE SIDEWALK HYDRO BELL POLE HYDRO BELL LIGHT POLE HYDRO UNDERGROUND HYDRO LIGHT GUY WIRE EDGE OF PAVEMENT EDGE OF GRAVEL CULVERT BELL POLE FENCE TRAFFIC SIGN 	<ul style="list-style-type: none"> PROPOSED TREES CONIFEROUS TREE DECIDUOUS TREE LIGHT STANDARD BELL LIGHT POLE BELL UNDERGROUND CABLE MARKER TELEPHONE UNDERGROUND TELEVISION CABLE MARKER STANDARD IRON BAR ROUND IRON BAR IRON BAR GAS MAIN STOP SIGN

No.	Revision	Date	Initial
A	ISSUED FOR TENDER	23.02.06	CB/IK

Approved

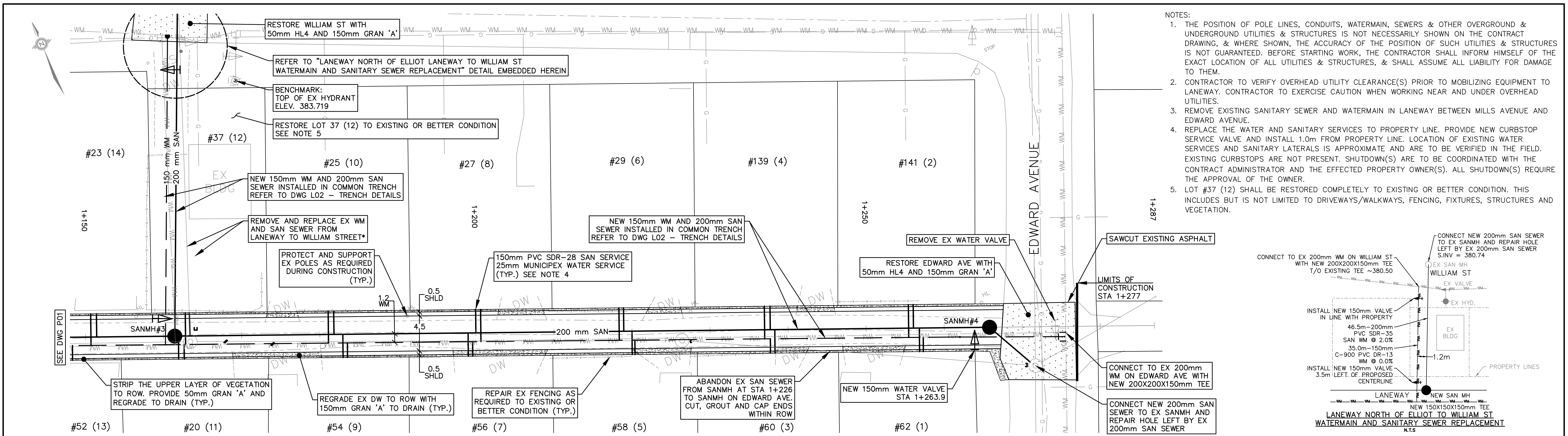
PLAN AND PROFILE
 LANEWAY NORTH OF ELLIOT ST.
 MILLS AVE. TO EDWARD AVE.
 STA 0+982 - 1+150

MUNICIPALITY OF RED LAKE
 COCHENOUR
 INFRASTRUCTURE UPGRADES

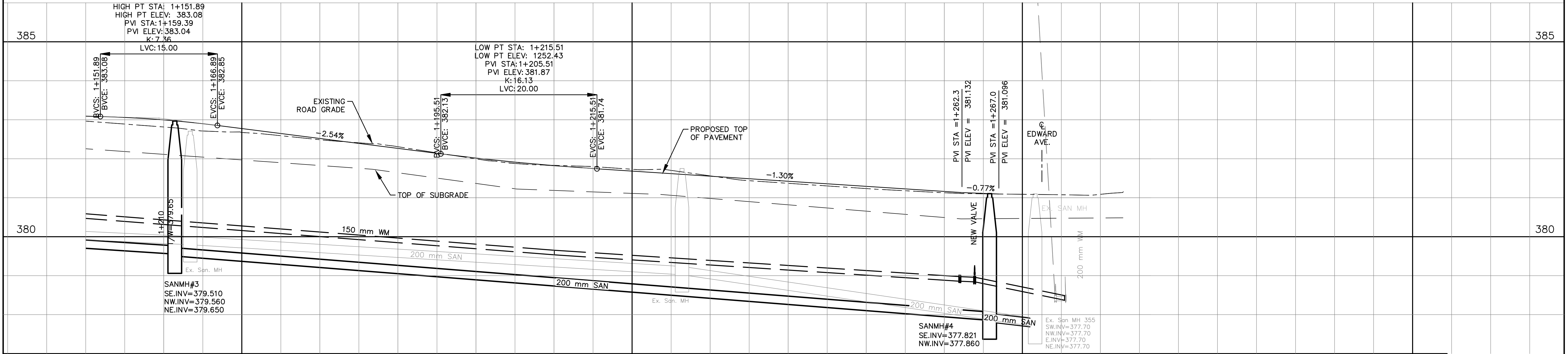
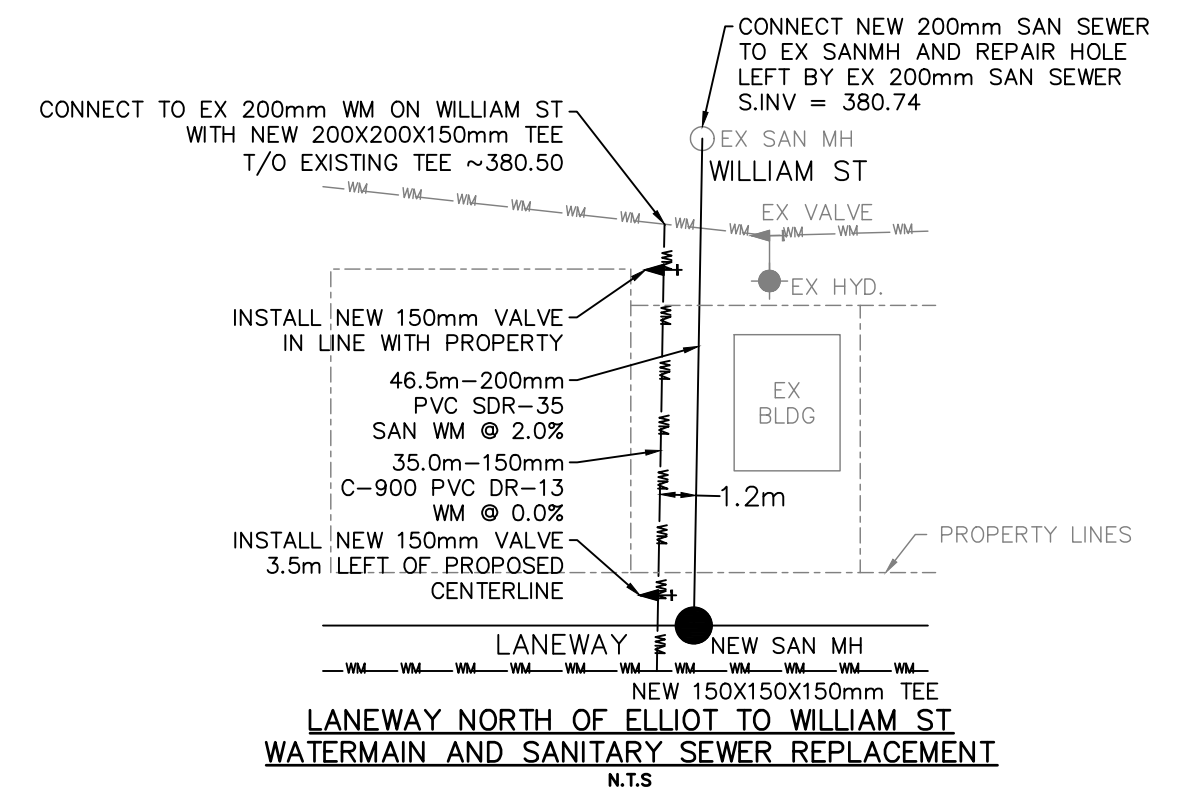
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Drawn By CB
 Ckd. By IK
 Date FEBRUARY 2023
 Dwg. No. A1-369682-P01
 Rev. A

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 5. LOT #37 (12) SHALL BE RESTORED COMPLETELY TO EXISTING OR BETTER CONDITION. THIS INCLUDES BUT IS NOT LIMITED TO DRIVEWAYS/WALKWAYS, FENCING, FIXTURES, STRUCTURES AND VEGETATION.



Watermain	99.34m - 150mm WM @ 1.56% C-900 PVC DR-18	51.92m - 150mm WM @ 1.30% C-900 PVC DR-18	11.49m - 100mm WM @ 4.09% C-900 PVC DR-18	Watermain
Sanitary	88.617m - 200mm SAN @ 1.67% PVC SDR-35	104.39m - 200mm SAN @ 1.58% PVC SDR-35	6.83m - 200mm SAN @ 1.77%	Sanitary
Chainage	1+150	1+200	1+300	Chainage

LEGEND:

PROPOSED	EXISTING	OTHER
● SANMH	○ SANMH	○ SWALK
● CS	○ CS	○ HYDRO BELL POLE
● W	○ W	○ HYDRO BELL LIGHT POLE
● TELMH	○ TELMH	○ HYDRO UNDERGROUND
● HYD	○ HYD	○ HYDRO LIGHT
● REDUCER	○ REDUCER	○ GUY WIRE
		○ EDGE OF PAVEMENT
		○ EDGE OF GRAVEL
		○ BELL POLE
		○ FENCE
		○ TRAFFIC SIGN
		○ PROPOSED TREES
		○ CONIFEROUS TREE
		○ DECIDUOUS TREE
		○ LIGHT STANDARD
		○ BELL LIGHT POLE
		○ BELL UNDERGROUND
		○ CABLE MARKER
		○ TELEPHONE UNDERGROUND
		○ TELEVISION CABLE MARKER
		○ STANDARD IRON BAR
		○ ROUND IRON BAR
		○ IRON BAR
		○ GAS MAIN
		○ STOP SIGN

No.	A	ISSUED FOR TENDER	23.02.06	CB/IK
Revision				

Approved

PLAN AND PROFILE

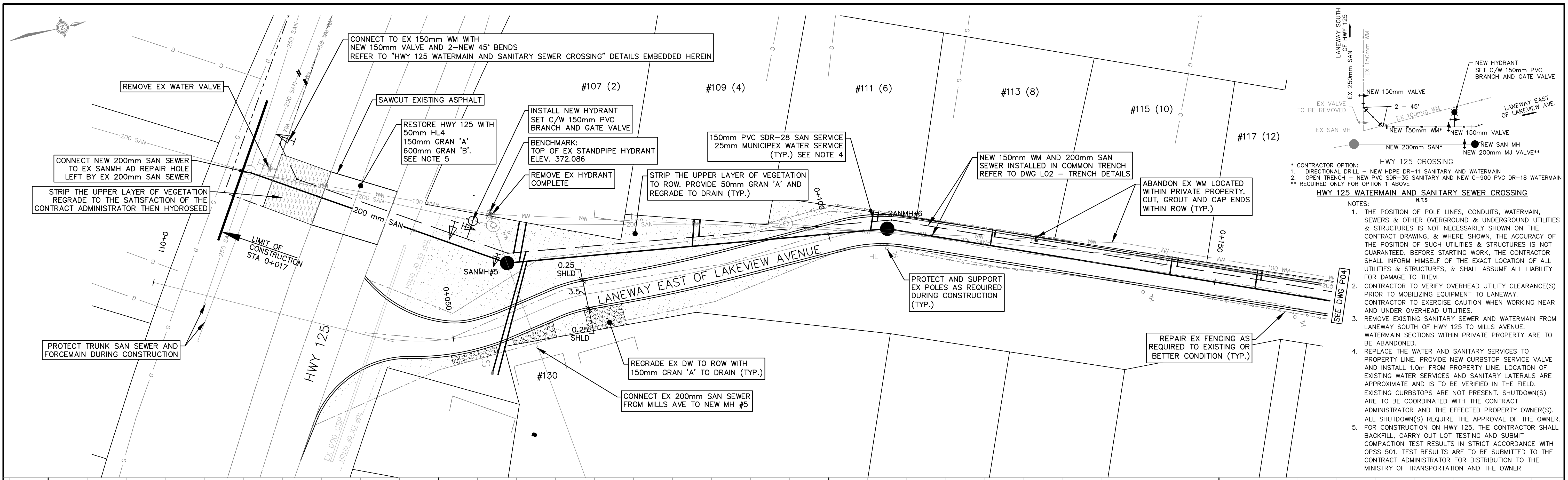
LANEWAY NORTH OF ELLIOT ST.
MILLS AVE. TO EDWARD AVE.
STA 1+150 TO 1+277

MUNICIPALITY OF RED LAKE

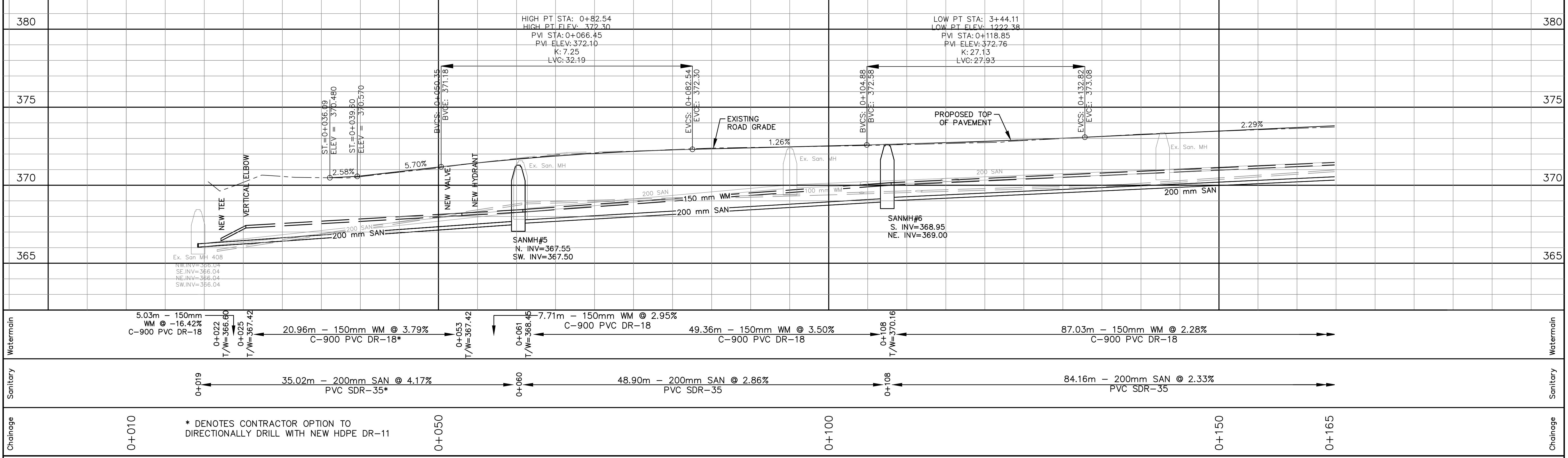
COCHENOUR
INFRASTRUCTURE UPGRADES

Scale: 0.5m 0 0.5m VERT
5m 0 2.5m HORIZ

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Ckd. By IK
Date FEBRUARY 2023
Dwg. No. A1-369682-P02
Rev. A

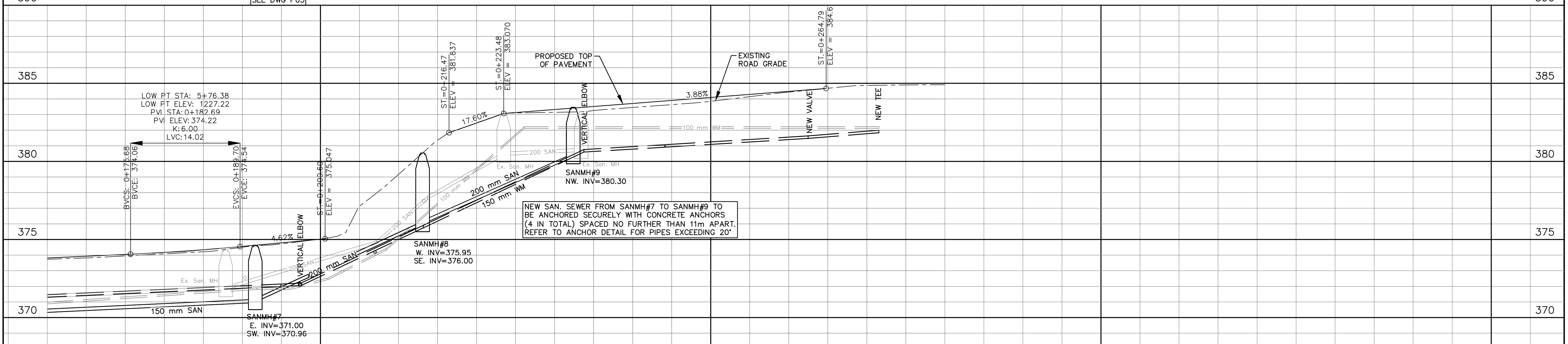
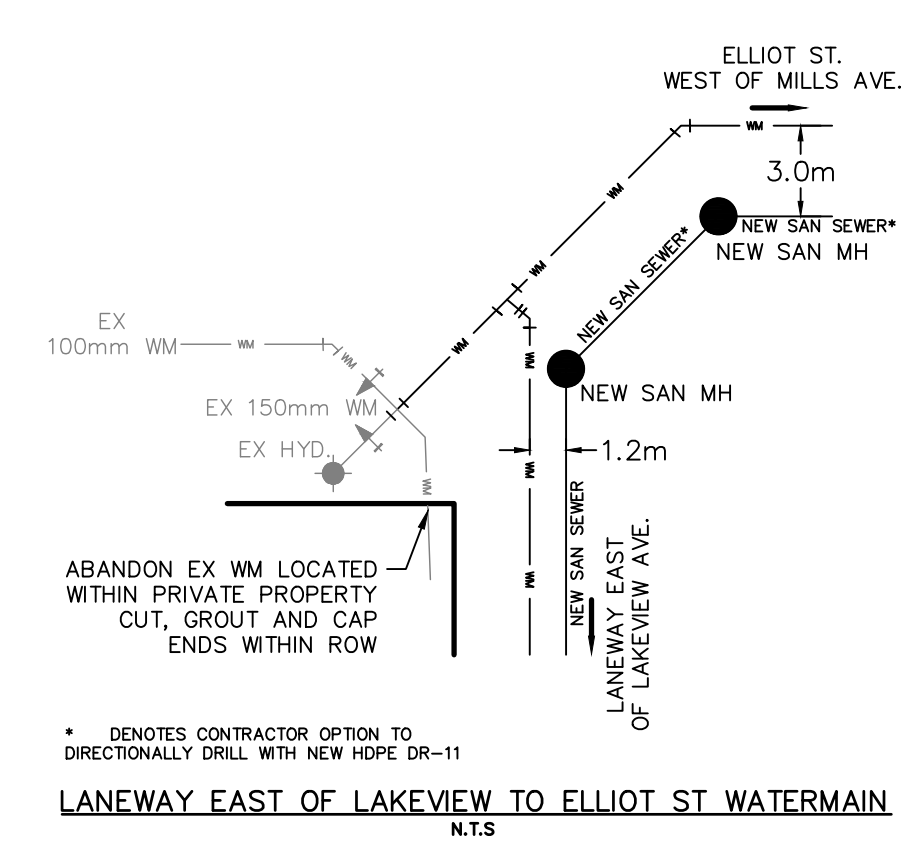
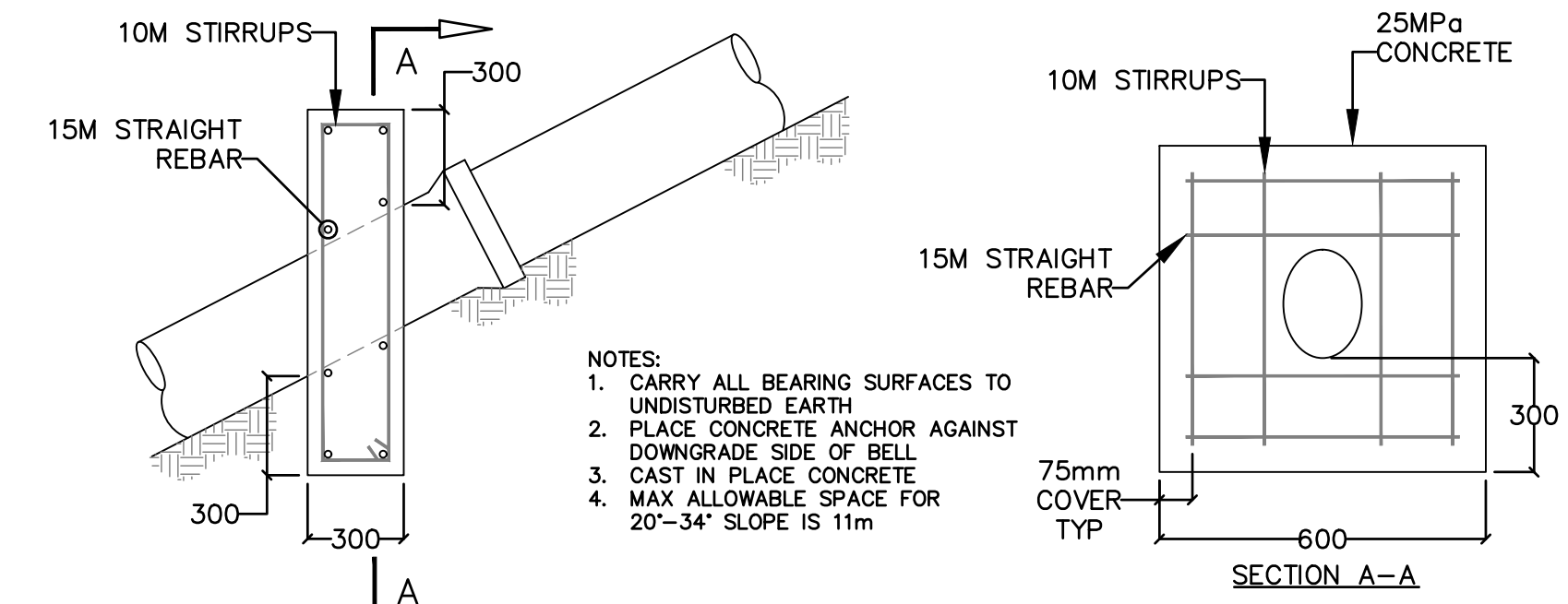
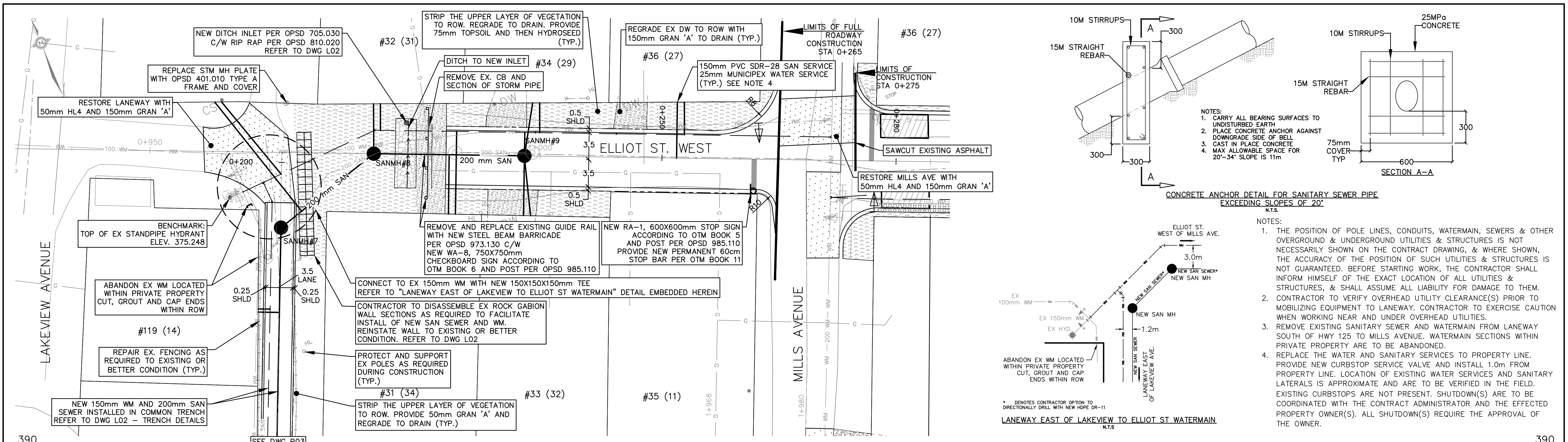


- CONTRACTOR OPTION:**
 1. DIRECTIONAL DRILL - NEW HDPE DR-11 SANITARY AND WATERMAIN
 2. OPEN TRENCH - NEW PVC SDR-35 SANITARY AND NEW C-900 PVC DR-18 WATERMAIN
**** REQUIRED ONLY FOR OPTION 1 ABOVE**
- HWY 125 WATERMAIN AND SANITARY SEWER CROSSING**
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 2. CONTRACTOR TO VERIFY OVERHEAD UTILITY CLEARANCE(S) PRIOR TO MOBILIZING EQUIPMENT TO LANEWAY. CONTRACTOR TO EXERCISE CAUTION WHEN WORKING NEAR AND UNDER OVERHEAD UTILITIES.
 3. REMOVE EXISTING SANITARY SEWER AND WATERMAIN FROM LANEWAY SOUTH OF HWY 125 TO MILLS AVENUE. WATERMAIN SECTIONS WITHIN PRIVATE PROPERTY ARE TO BE ABANDONED.
 4. REPLACE THE WATER AND SANITARY SERVICES TO PROPERTY LINE. PROVIDE NEW CURBSTOP SERVICE VALVE AND INSTALL 1.0m FROM PROPERTY LINE. LOCATION OF EXISTING WATER SERVICES AND SANITARY LATERALS ARE APPROXIMATE AND IS TO BE VERIFIED IN THE FIELD. EXISTING CURBSTOPS ARE NOT PRESENT. SHUTDOWN(S) ARE TO BE COORDINATED WITH THE CONTRACT ADMINISTRATOR AND THE EFFECTED PROPERTY OWNER(S). ALL SHUTDOWN(S) REQUIRE THE APPROVAL OF THE OWNER.
 5. FOR CONSTRUCTION ON HWY 125, THE CONTRACTOR SHALL BACKFILL, CARRY OUT LOT TESTING AND SUBMIT COMPACTION TEST RESULTS IN STRICT ACCORDANCE WITH OPS5 501. TEST RESULTS ARE TO BE SUBMITTED TO THE CONTRACT ADMINISTRATOR FOR DISTRIBUTION TO THE MINISTRY OF TRANSPORTATION AND THE OWNER



LEGEND: PROPOSED: STORM SEWER, CATCH-BASIN, SANITARY SEWER, SANITARY MANHOLE, CURB BOX, WATERVALVE, WATERMAIN, BELL MANHOLE, HYDRANT, REDUCER EXISTING: HYDRO BELL POLE, HYDRO UNDERGROUND, GUY WIRE, EDGE OF PAVEMENT, EDGE OF GRAVEL, BELL POLE, FENCE, TRAFFIC SIGN SWALE, SIDEWALK, HYDRO BELL LIGHT POLE, HYDRO UNDERGROUND, HYDRO LIGHT, TELEPHONE UNDERGROUND, TELEVISION CABLE MARKER, STANDARD IRON BAR, ROUND IRON BAR, IRON BAR, GAS MAIN, STOP SIGN PROPOSED TREES: CONIFEROUS TREE, DECIDUOUS TREE, LIGHT STANDARD, BELL UNDERGROUND, CABLE MARKER	Approved PLAN AND PROFILE LANEWAY EAST OF LAKEVIEW AVE. HIGHWAY 125 TO LAKEVIEW AVE. STA. 0+010 - STA. 0+165	MUNICIPALITY OF RED LAKE COCHENOUR INFRASTRUCTURE UPGRADES	 Scale: 1m = 1m VERT, 5m = 0.25m HORIZ Drawn By: CB Ckd. By: IK Date: FEBRUARY 2023 Dwg. No.: A1-369682-P03 Rev: A
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Watermain	89.78m - 150mm WM @ 2.28% C-900 PVC DR-18	0+197	36.39m - 150mm WM @ 23.49% C-900 PVC DR-18*	0+234	18.27m - 150mm WM @ 3.06% C-900 PVC DR-18	0+262	9.08m - 150mm WM @ 4.01% C-900 PVC DR-18	0+272	Watermain
Sanitary	84.16m - 200mm SAN @ 2.33% PVC SDR-35	0+192	15.20m - 200mm SAN @ 32.57% PVC SDR-35*	0+213	19.30m - 200mm SAN @ 22.28% PVC SDR-35*	0+232			Sanitary
Chainage	0+165		0+200		0+250				Chainage

* DENOTES CONTRACTOR OPTION TO DIRECTIONALLY DRILL WITH NEW HDPE DR-11

LEGEND:

PROPOSED	EXISTING	SWALE	PROPOSED TREES
STORM SEWER	STORM SEWER	SIDEWALK	CONIFEROUS TREE
CATCH-BASIN	CATCH-BASIN	HYDRO BELL POLE	DECIDUOUS TREE
STORM MANHOLE	STORM MANHOLE	HYDRO BELL LIGHT POLE	LIGHT STANDARD
SANITARY SEWER	SANITARY SEWER	HYDRO UNDERGROUND	BELL LIGHT POLE
SANMH	SANMH	HYDRO LIGHT	BELL UNDERGROUND
CURB BOX	CURB BOX	GUY WIRE	CABLE MARKER
WATERVALVE	WATERVALVE	EDGE OF PAVEMENT	TELEPHONE UNDERGROUND
WATERMAIN	WATERMAIN	EDGE OF GRAVEL	TELEVISION CABLE MARKER
BELL MANHOLE	BELL MANHOLE	FENCE	STANDARD IRON BAR
HYDRANT	HYDRANT	TRAFFIC SIGN	ROUND IRON BAR
REDUCER	REDUCER		IRON BAR
			GAS MAIN
			STOP SIGN

No.	Revision	Date	Initial
A	ISSUED FOR TENDER	23.02.06	CB/IK

Approved

J. DE LUCA
100099251
PROVINCIAL ENGINEER
PROVINCE OF ONTARIO

I. M. KELLY
100501584
PROVINCIAL ENGINEER
PROVINCE OF ONTARIO

PLAN AND PROFILE

ELLIOT ST.
WEST END TO MILLS AVE
STA. 0+165 - STA. 0+275

MUNICIPALITY OF RED LAKE

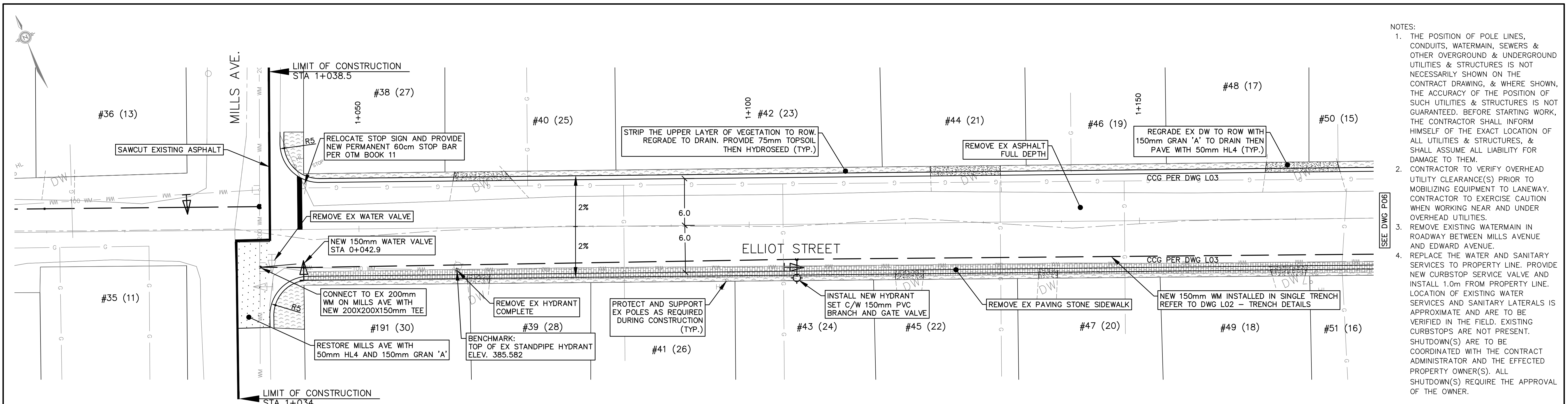
COCHENOUR
INFRASTRUCTURE UPGRADES

HATCH

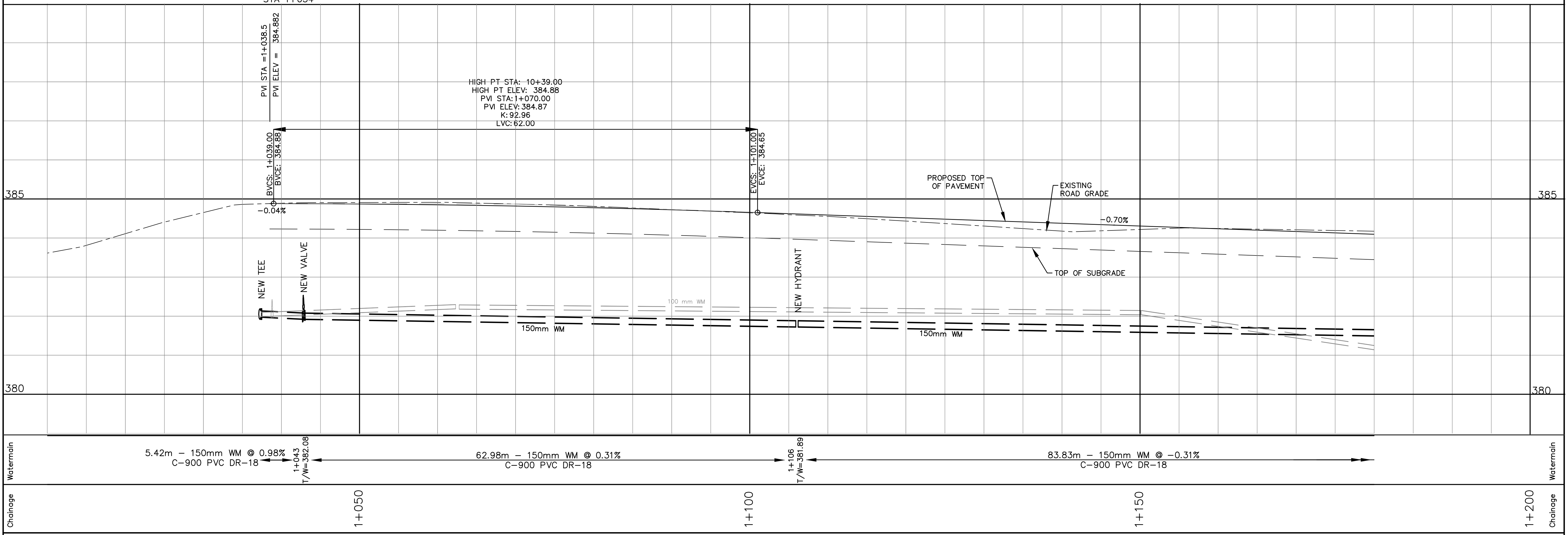
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Date: FEBRUARY 2023
Dwg. No.: A1-369682-P04
Rev. A

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LEGEND:

PROPOSED	EXISTING	SYMBOL	DESCRIPTION
CS	CS	Circle with cross	STORM SEWER
CB	CB	Square	CATCH-BASIN
SMH	SMH	Circle with cross	STORM MANHOLE
SMH	SMH	Circle with cross	SANITARY MANHOLE
CS	CS	Circle with cross	CURB BOX
WV	WV	Circle with cross	WATERVALVE
WM	WM	Circle with cross	WATERMAIN
BM	BM	Circle with cross	BELL MANHOLE
HYD	HYD	Circle with cross	HYDRANT
RED	RED	Circle with cross	REDUCER
SW	SW	Circle with cross	SWALE
HW	HW	Circle with cross	HYDRO BELL POLE
HL	HL	Circle with cross	HYDRO BELL LIGHT POLE
HL	HL	Circle with cross	HYDRO UNDERGROUND
HL	HL	Circle with cross	HYDRO LIGHT
GW	GW	Circle with cross	GUY WIRE
EP	EP	Circle with cross	EDGE OF PAVEMENT
EG	EG	Circle with cross	EDGE OF GRAVEL
CUL	CUL	Circle with cross	CULVERT
BM	BM	Circle with cross	BELL POLE
IRB	IRB	Circle with cross	ROUND IRON BAR
IRB	IRB	Circle with cross	IRON BAR
GM	GM	Circle with cross	GAS MAIN
STOP	STOP	Circle with cross	STOP SIGN
TR	TR	Circle with cross	TRAFFIC SIGN
PT	PT	Circle with cross	PROPOSED TREES
CT	CT	Circle with cross	CONIFEROUS TREE
DT	DT	Circle with cross	DECIDUOUS TREE
LS	LS	Circle with cross	LIGHT STANDARD
BLP	BLP	Circle with cross	BELL LIGHT POLE
BLU	BLU	Circle with cross	BELL UNDERGROUND
CM	CM	Circle with cross	CABLE MARKER
TU	TU	Circle with cross	TELEPHONE UNDERGROUND
TCM	TCM	Circle with cross	TELEVISION CABLE MARKER
SIB	SIB	Circle with cross	STANDARD IRON BAR
RIB	RIB	Circle with cross	ROUND IRON BAR
IB	IB	Circle with cross	IRON BAR
GM	GM	Circle with cross	GAS MAIN
STOP	STOP	Circle with cross	STOP SIGN

No.	Revision	Date	Initial
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Approved

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 100099251
 FEB 6/23
 PROVINCE OF ONTARIO

I. M. KELLY
 100501584
 FEB 6/23
 PROVINCE OF ONTARIO

PLAN AND PROFILE

ELLIOT STREET
 MILLS AVE. TO EDWARD AVE.
 STA 1+034 - 1+180

MUNICIPALITY OF RED LAKE

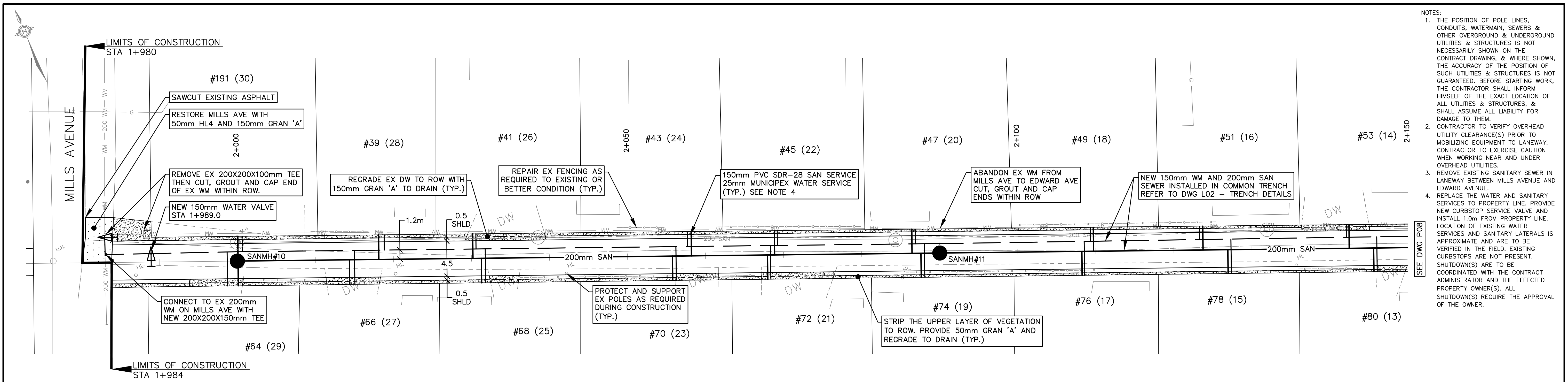
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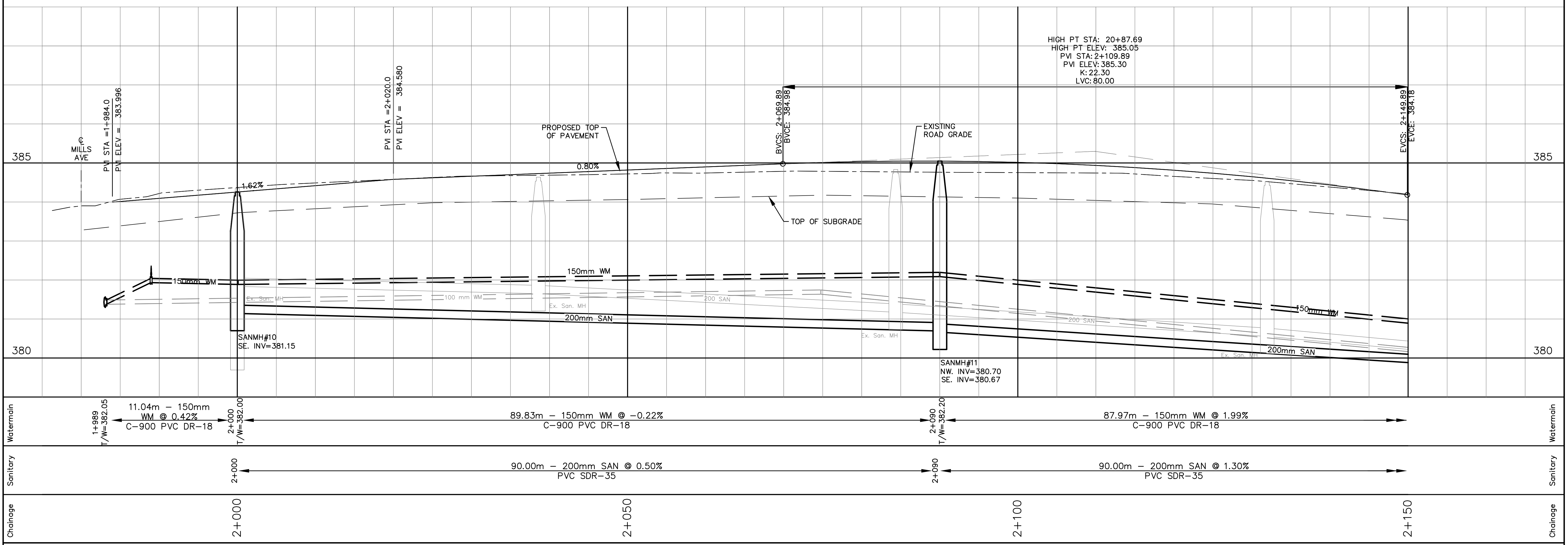
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 5m 0 2.5m
 VERT
 HORIZ

Drawn By CB
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LEGEND:

PROPOSED	EXISTING	SYMBOL	DESCRIPTION
●	○	○	STORM SEWER
●	○	○	CATCH-BASIN
●	○	○	STORM MANHOLE
●	○	○	SANITARY SEWER
●	○	○	SANITARY MANHOLE
●	○	○	CURB BOX
●	○	○	WATERVALVE
●	○	○	WATERMAIN
●	○	○	BELL MANHOLE
●	○	○	HYDRANT
●	○	○	REDUCER
—	—	—	SWALE
—	—	—	SIDEWALK
—	—	—	HYDRO BELL POLE
—	—	—	HYDRO BELL LIGHT POLE
—	—	—	HYDRO UNDERGROUND
—	—	—	HYDRO LIGHT
—	—	—	GUY WIRE
—	—	—	EDGE OF PAVEMENT
—	—	—	EDGE OF GRAVEL
—	—	—	CULVERT
—	—	—	BELL POLE
—	—	—	FENCE
—	—	—	TRAFFIC SIGN
●	○	○	PROPOSED TREES
●	○	○	CONIFEROUS TREE
●	○	○	DECIDUOUS TREE
●	○	○	LIGHT STANDARD
●	○	○	BELL LIGHT POLE
●	○	○	BELL UNDERGROUND
●	○	○	CABLE MARKER
●	○	○	TELEPHONE UNDERGROUND
●	○	○	TELEVISION CABLE MARKER
●	○	○	STANDARD IRON BAR
●	○	○	ROUND IRON BAR
●	○	○	IRON BAR
●	○	○	GAS MAIN
●	○	○	STOP SIGN

No.	Revision	Date	Initial
A	ISSUED FOR TENDER	23.02.06	CB/IK

Approved

PLAN AND PROFILE
 LANEWAY SOUTH OF ELLIOT ST.
 MILLS AVE. TO EDWARD AVE.
 STA 1+984 - 2+150

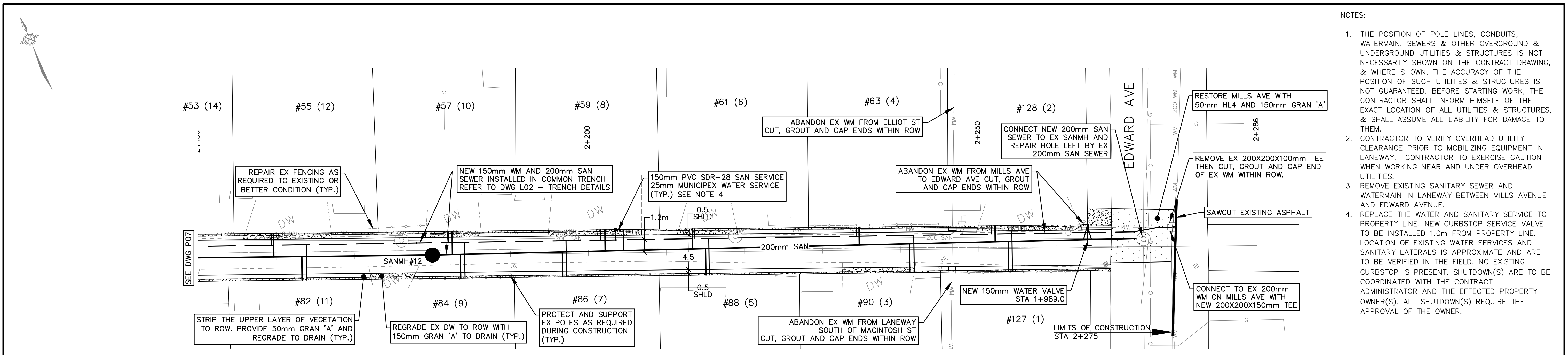
MUNICIPALITY OF RED LAKE
 COCHENOUR
 INFRASTRUCTURE UPGRADES

Scale

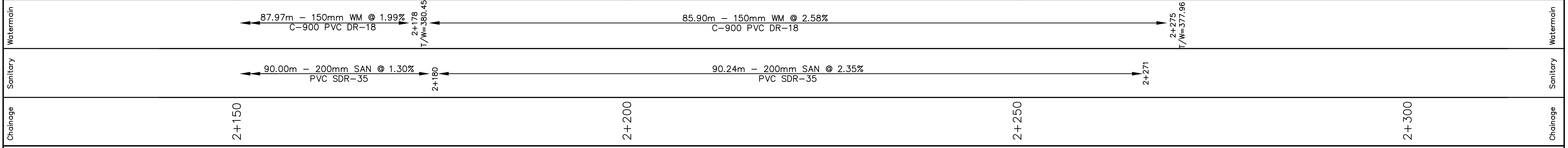
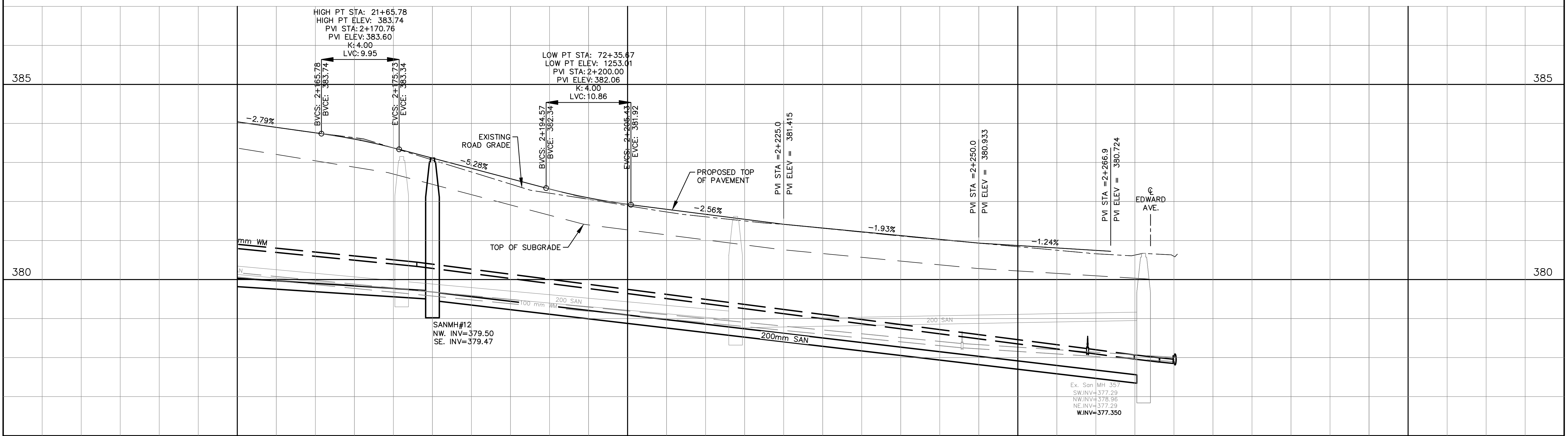
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 Ckd. By IK
 Dwg. No. A1-369682-P07

Date FEBRUARY 2023
 Rev. A

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- NOTES:
1. THE POSITION OF POLE LINES, CONDUITS, WATERMAIN, SEWERS & OTHER OVERGROUND & UNDERGROUND UTILITIES & STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWING, & WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES & STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL UTILITIES & STRUCTURES, & SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
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 3. REMOVE EXISTING SANITARY SEWER AND WATERMAIN IN LANEWAY BETWEEN MILLS AVENUE AND EDWARD AVENUE.
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LEGEND:

PROPOSED	EXISTING	SYMBOL	DESCRIPTION
●	○	○	CATCH-BASIN
●	○	○	STORM MANHOLE
●	○	○	SANITARY SEWER
●	○	○	SANITARY MANHOLE
●	○	○	CURB BOX
●	○	○	WATERVALVE
●	○	○	WATERMAIN
●	○	○	BELL MANHOLE
●	○	○	HYDRANT
●	○	○	REDUCER
—	—	—	SWALE
—	—	—	SIDEWALK
—	—	—	HYDRO BELL POLE
—	—	—	HYDRO BELL LIGHT POLE
—	—	—	HYDRO UNDERGROUND
—	—	—	HYDRO LIGHT
—	—	—	GUY WIRE
—	—	—	EDGE OF PAVEMENT
—	—	—	EDGE OF GRAVEL
—	—	—	CULVERT
—	—	—	BELL POLE
—	—	—	FENCE
—	—	—	TRAFFIC SIGN
●	○	○	PROPOSED TREES
●	○	○	CONIFEROUS TREE
●	○	○	DECIDUOUS TREE
●	○	○	LIGHT STANDARD
●	○	○	BELL LIGHT POLE
●	○	○	BELL UNDERGROUND
●	○	○	CABLE MARKER
●	○	○	TELEPHONE UNDERGROUND
●	○	○	TELEVISION CABLE MARKER
●	○	○	STANDARD IRON BAR
●	○	○	ROUND IRON BAR
●	○	○	IRON BAR
●	○	○	GAS MAIN
●	○	○	STOP SIGN

No.	Revision	Date	Initial
A	ISSUED FOR TENDER	23.02.06	CB/IK

Approved

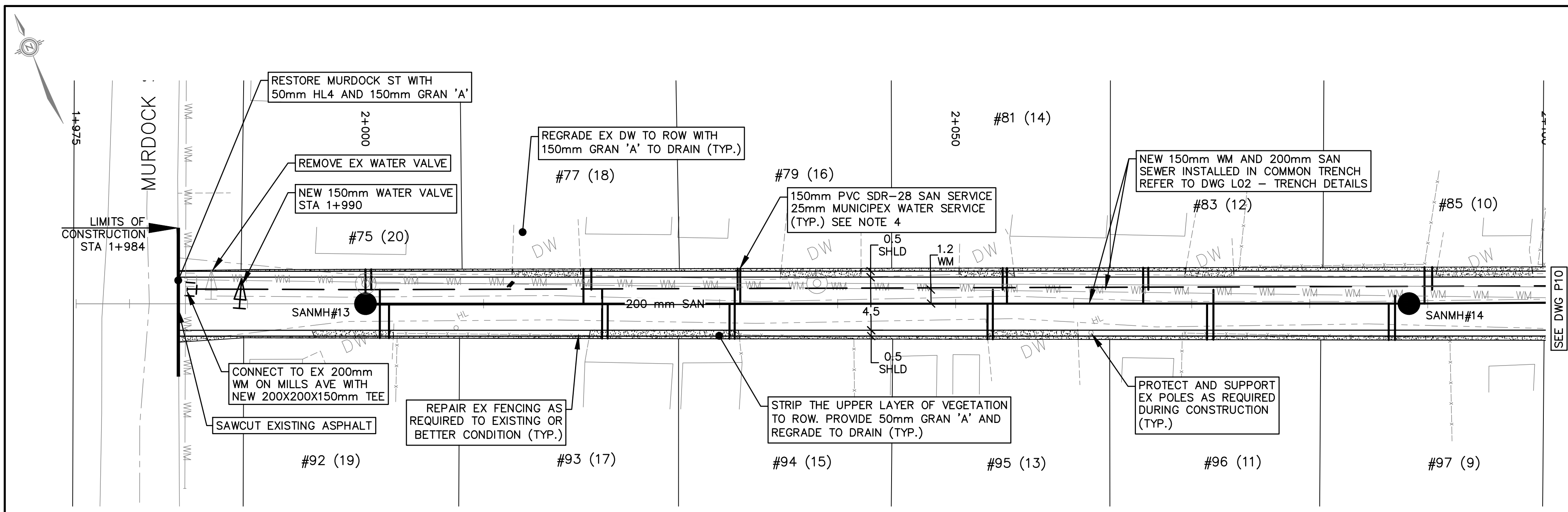
PLAN AND PROFILE
 LANEWAY SOUTH OF ELLIOT ST.
 MILLS AVE. TO EDWARD AVE.
 STA 2+150 - 2+275

MUNICIPALITY OF RED LAKE
 COCHENOUR
 INFRASTRUCTURE UPGRADES

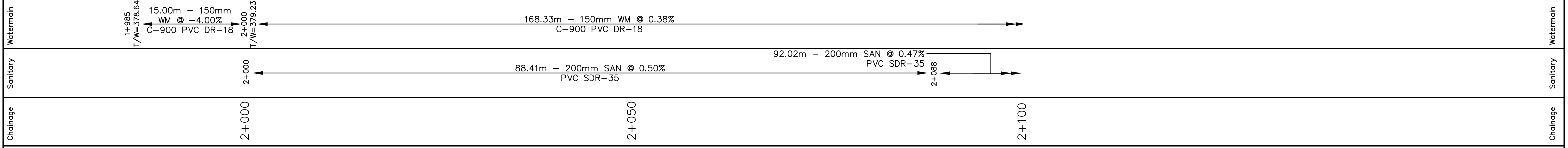
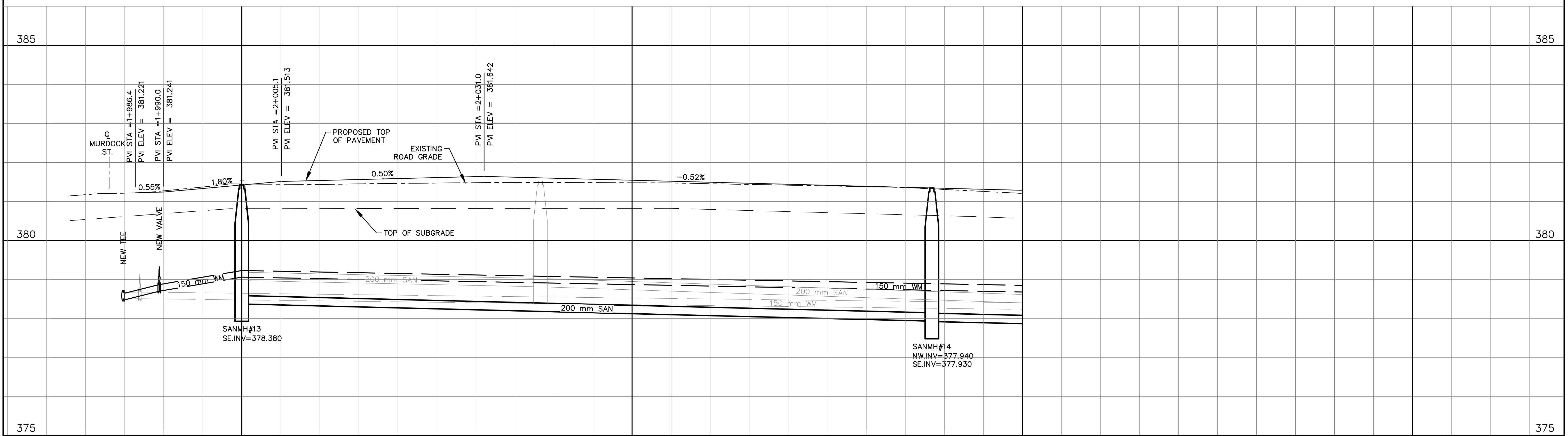
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Drawn By CB
 Ckd. By IK
 Date FEBRUARY 2023
 Dwg. No. A1-369682-P08
 Rev. A

Drawing file: C:\Users\REBEI7~1\AppData\Local\Temp\AcPublish_16260\A1-355806-P30-Updated-CURRENT.dwg
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LEGEND:

PROPOSED	EXISTING	SWALE	PROPOSED TREES
<ul style="list-style-type: none"> CSB CATCH-BASIN SMH STORM MANHOLE SSW SANITARY SEWER SANMH SANITARY MANHOLE CS CURB BOX WV WATERVALVE WM WATERMAIN TELH BELL MANHOLE HYD HYDRANT REDUCER 	<ul style="list-style-type: none"> CSB CATCH-BASIN SMH STORM MANHOLE SSW SANITARY SEWER SANMH SANITARY MANHOLE CS CURB BOX WV WATERVALVE WM WATERMAIN TELH BELL MANHOLE HYD HYDRANT REDUCER 	<ul style="list-style-type: none"> SW SWALE HWB HYDRO BELL POLE HLB HYDRO BELL LIGHT POLE HL HYDRO UNDERGROUND HL HYDRO LIGHT GW GUY WIRE EP EDGE OF PAVEMENT EG EDGE OF GRAVEL CULV CULVERT BP BELL POLE IRB ROUND IRON BAR IB IRON BAR GM GAS MAIN STOP STOP SIGN 	<ul style="list-style-type: none"> CT CONIFEROUS TREE DT DECIDUOUS TREE LS LIGHT STANDARD BLB BELL UNDERGROUND CM CABLE MARKER TU TELEPHONE UNDERGROUND TC TELEVISION CABLE MARKER SB STANDARD IRON BAR RIB ROUND IRON BAR IB IRON BAR GM GAS MAIN STOP STOP SIGN

No.	Revision	Date	Initial
A	ISSUED FOR TENDER	23.02.06	CB/IK

Approved

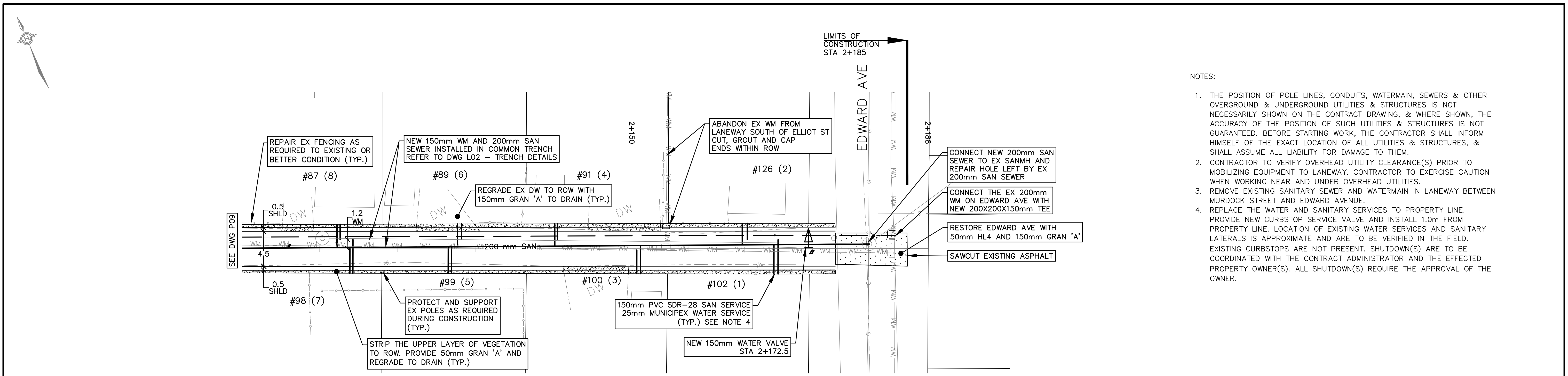
PLAN AND PROFILE
 LANEWAY SOUTH OF MACINTOSH ST.
 MURDOCK ST. TO EDWARD AVE.
 STA 1+984 TO 2+100

MUNICIPALITY OF RED LAKE
 COCHENOUR
 INFRASTRUCTURE UPGRADES

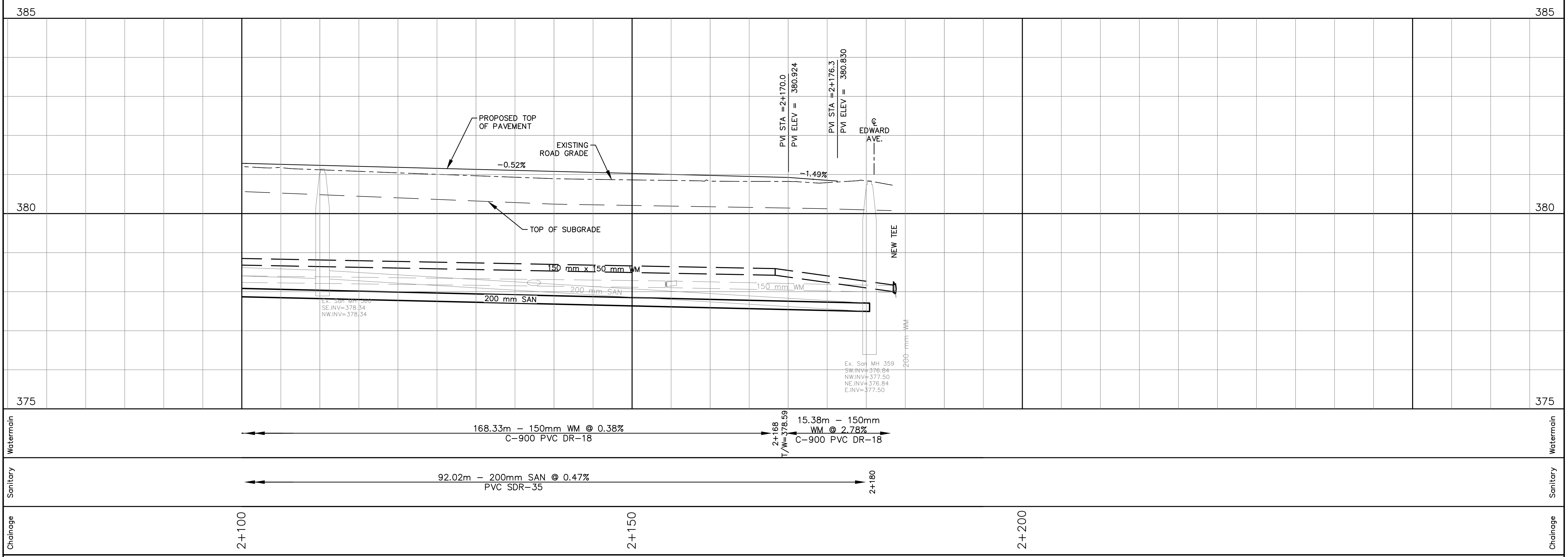
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Drawn By CB	Date FEBRUARY 2023
Ckd. By IK	
Dwg. No. A1-369682-P09	Rev. A

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LEGEND:

PROPOSED	EXISTING	SYMBOL	DESCRIPTION
CS	CS	Circle with cross	CATCH-BASIN
SMH	SMH	Circle with 'S'	STORM MANHOLE
SMH	SMH	Circle with 'S'	SANITARY MANHOLE
CS	CS	Circle with cross	CURB BOX
WV	WV	Circle with 'W'	WATERVALVE
WM	WM	Circle with 'W'	WATERMAIN
TMH	TMH	Circle with 'T'	BELL MANHOLE
HTD	HTD	Circle with 'H'	HYDRANT
RED	RED	Circle with 'R'	REDUCER
SW	SW	Circle with 'S'	SWALE
HW	HW	Circle with 'H'	HYDRO BELL POLE
HL	HL	Circle with 'H'	HYDRO BELL LIGHT POLE
HL	HL	Circle with 'H'	HYDRO UNDERGROUND
HL	HL	Circle with 'H'	HYDRO LIGHT
GW	GW	Circle with 'G'	GUY WIRE
EP	EP	Circle with 'E'	EDGE OF PAVEMENT
EG	EG	Circle with 'E'	EDGE OF GRAVEL
C	C	Circle with 'C'	CULVERT
BP	BP	Circle with 'B'	BELL POLE
FB	FB	Circle with 'F'	FENCE
TS	TS	Circle with 'T'	TRAFFIC SIGN
PT	PT	Circle with 'P'	PROPOSED TREE
CT	CT	Circle with 'C'	CONIFEROUS TREE
DT	DT	Circle with 'D'	DECIDUOUS TREE
LS	LS	Circle with 'L'	LIGHT STANDARD
BLP	BLP	Circle with 'B'	BELL UNDERGROUND
CM	CM	Circle with 'C'	CABLE MARKER
TU	TU	Circle with 'T'	TELEPHONE UNDERGROUND
TCM	TCM	Circle with 'T'	TELEVISION CABLE MARKER
SB	SB	Circle with 'S'	STANDARD IRON BAR
RB	RB	Circle with 'R'	ROUND IRON BAR
IB	IB	Circle with 'I'	IRON BAR
GM	GM	Circle with 'G'	GAS MAIN
ST	ST	Circle with 'S'	STOP SIGN

No.	Revision	Date	Initial
A	ISSUED FOR TENDER	23.02.06	CB/IK

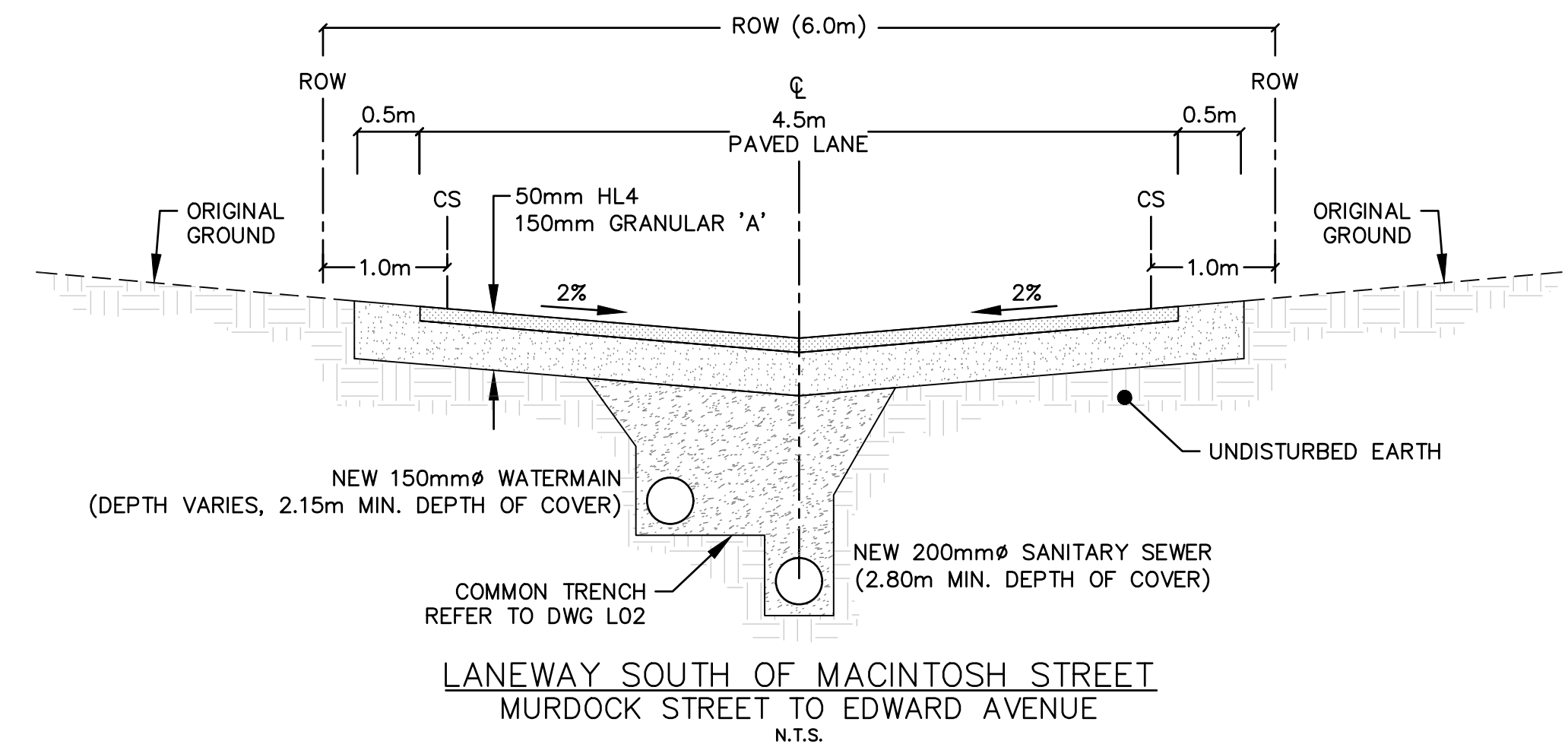
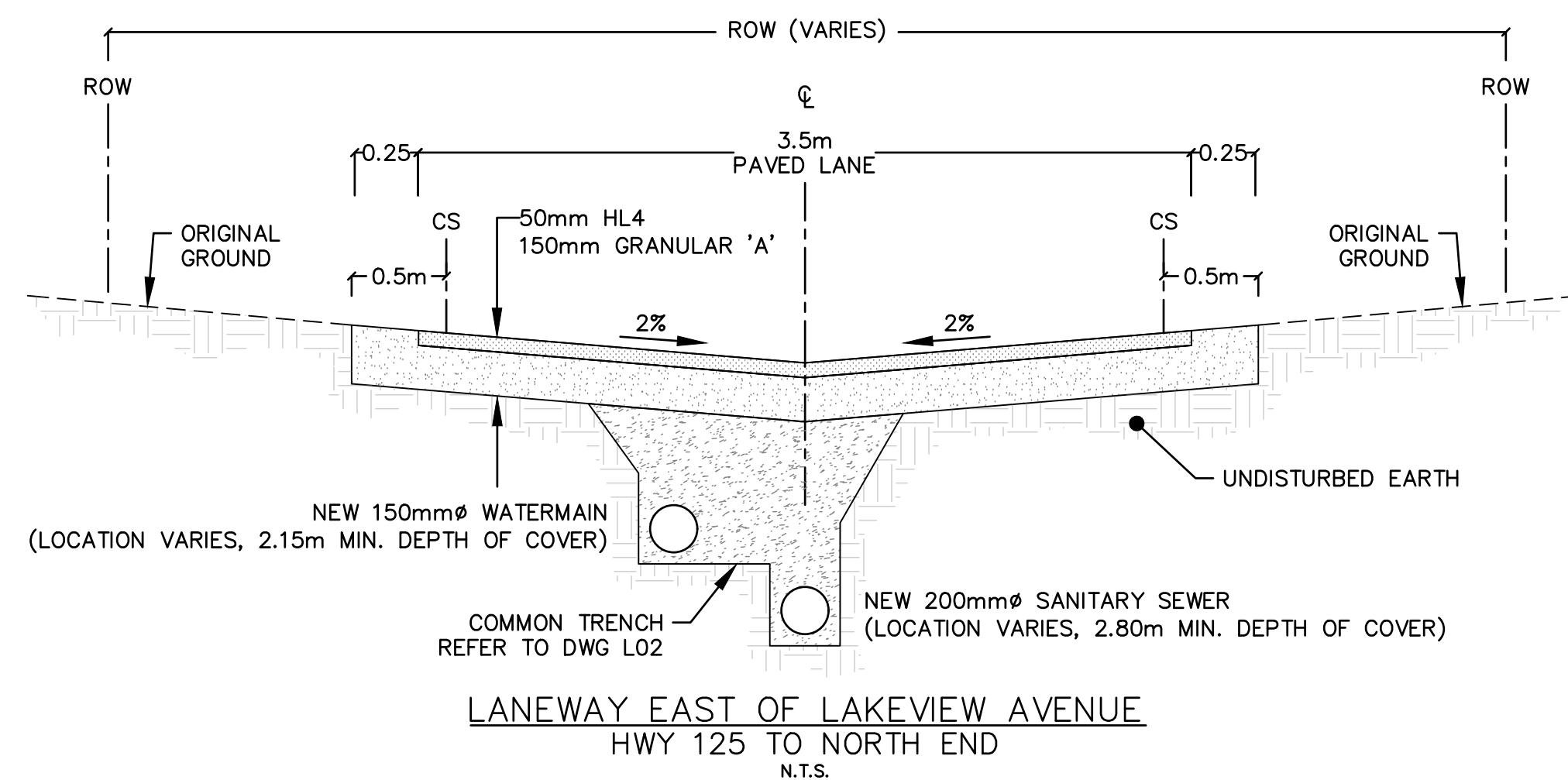
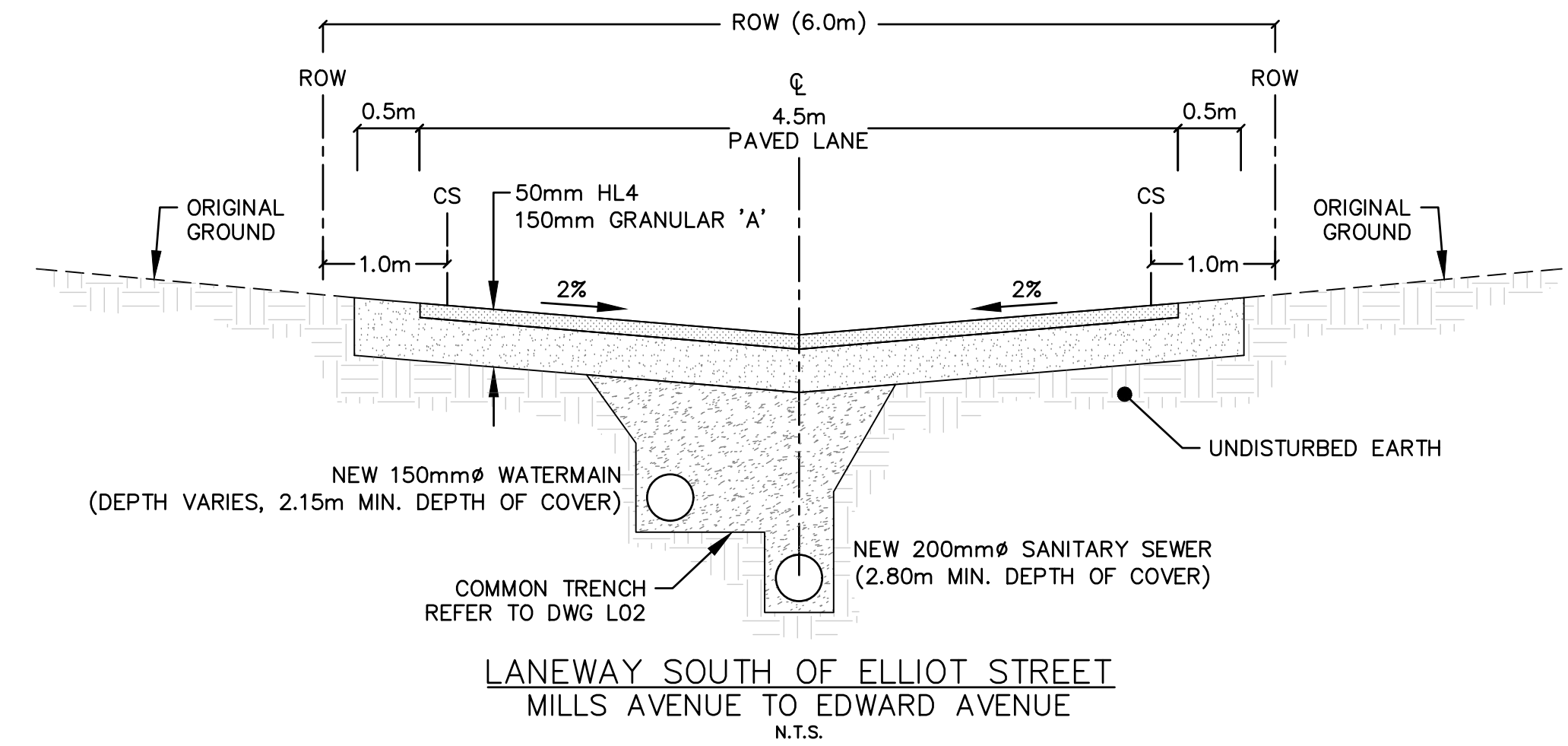
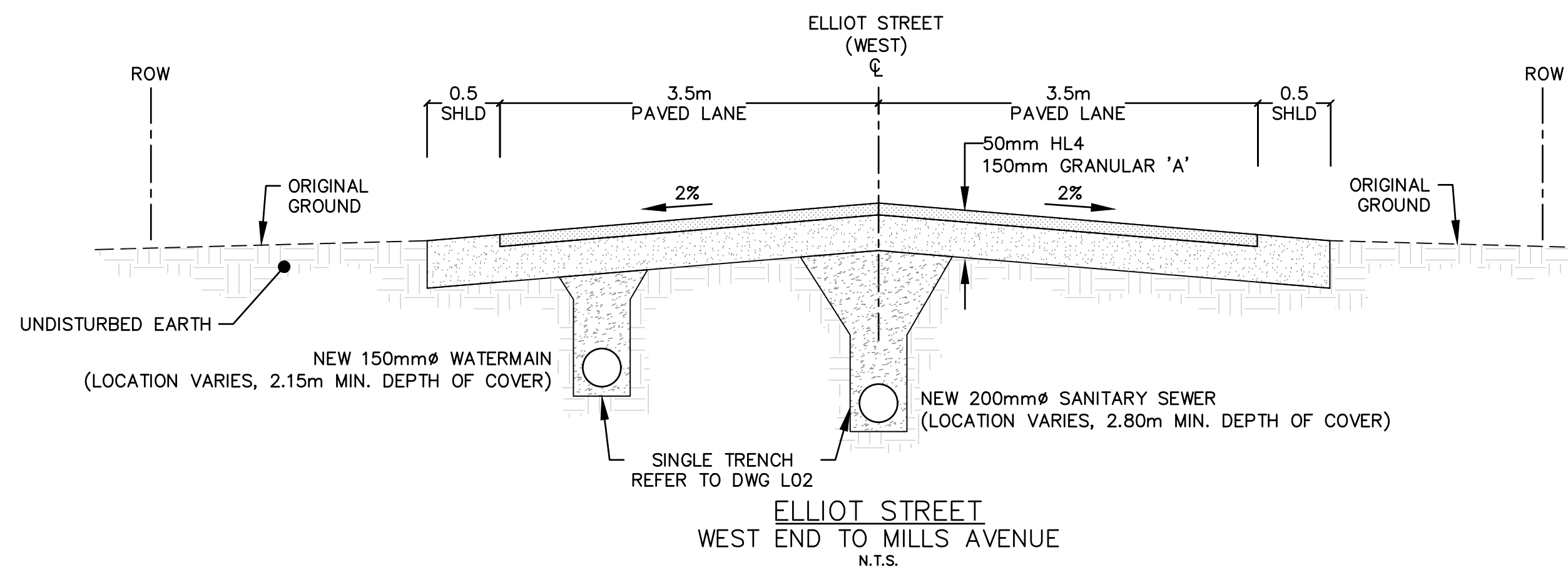
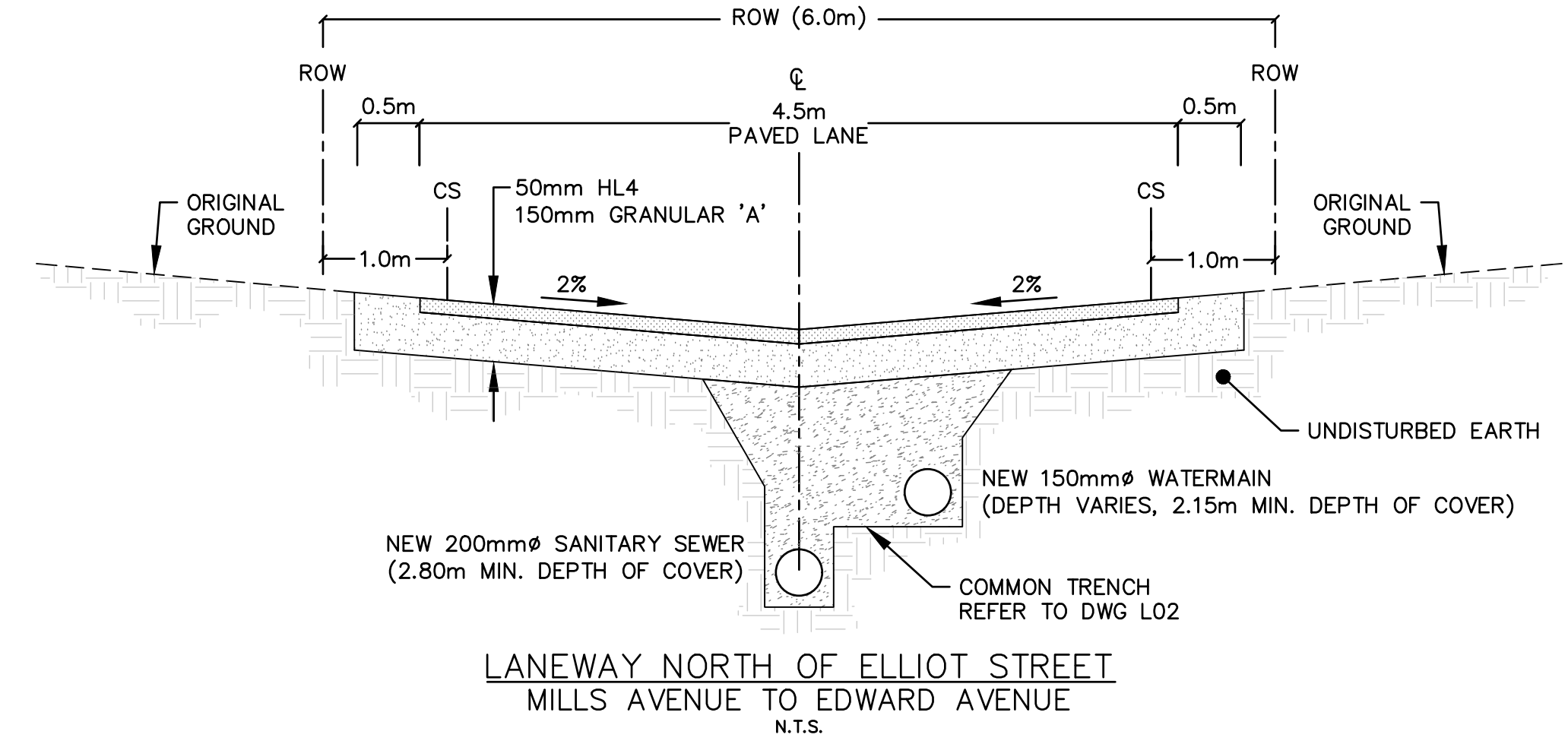
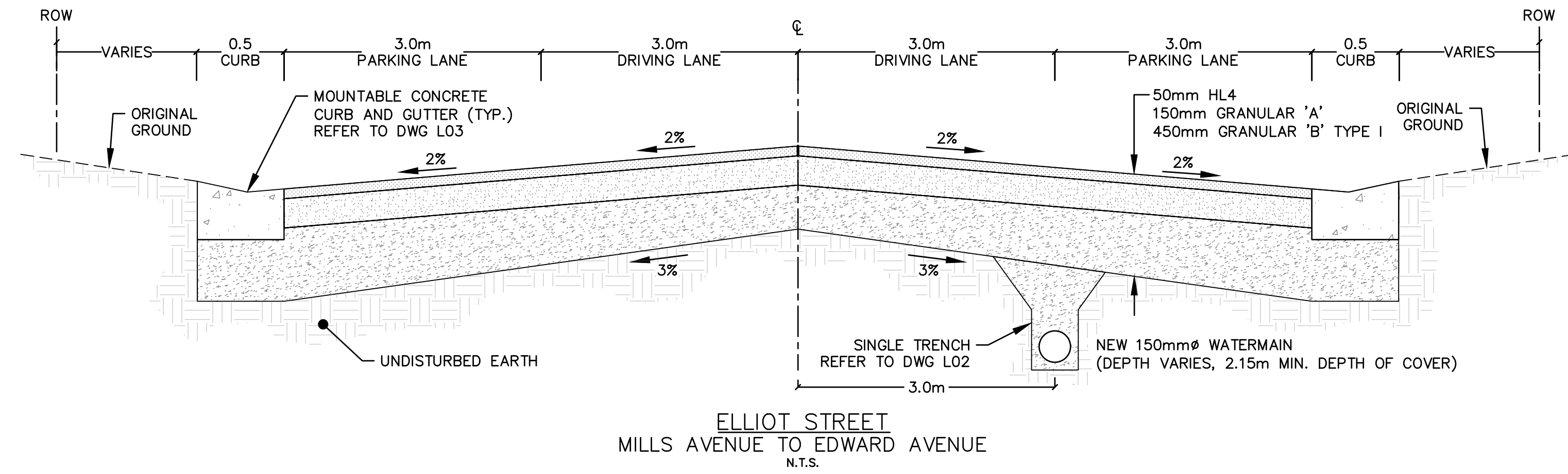
Approved

PLAN AND PROFILE
 LANEWAY SOUTH OF MACINTOSH ST.
 MURDOCK ST. TO EDWARD ST.
 STA 2+100 TO 2+185

MUNICIPALITY OF RED LAKE
 COCHENOUR
 INFRASTRUCTURE UPGRADES

Scale: 0 0.5m 1m 1.5m 2m 2.5m 3m
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 Drawn By: CB
 Ckd. By: IK
 Date: FEBRUARY 2023
 Dwg. No.: A1-369682-P10
 Rev. A

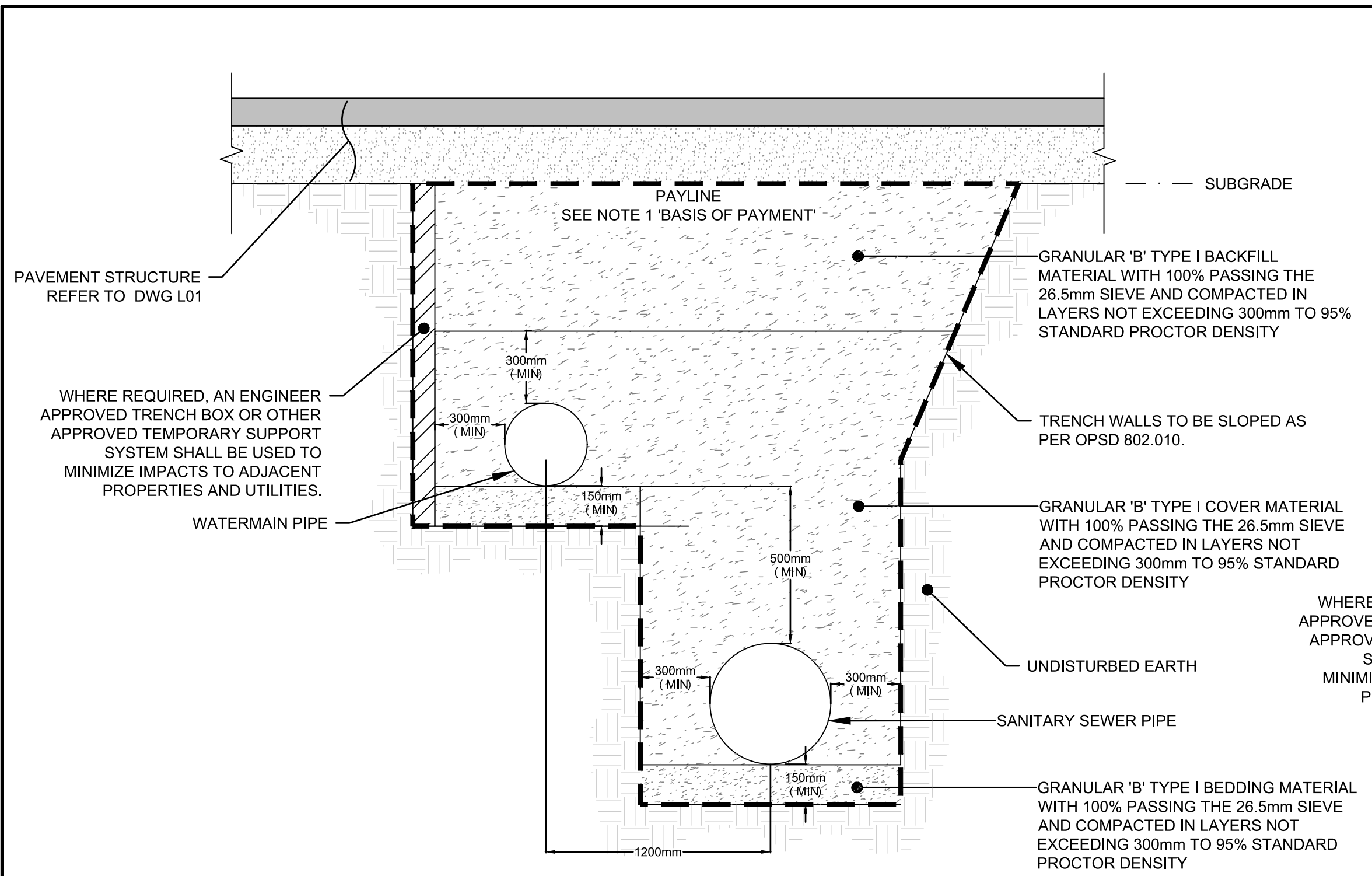
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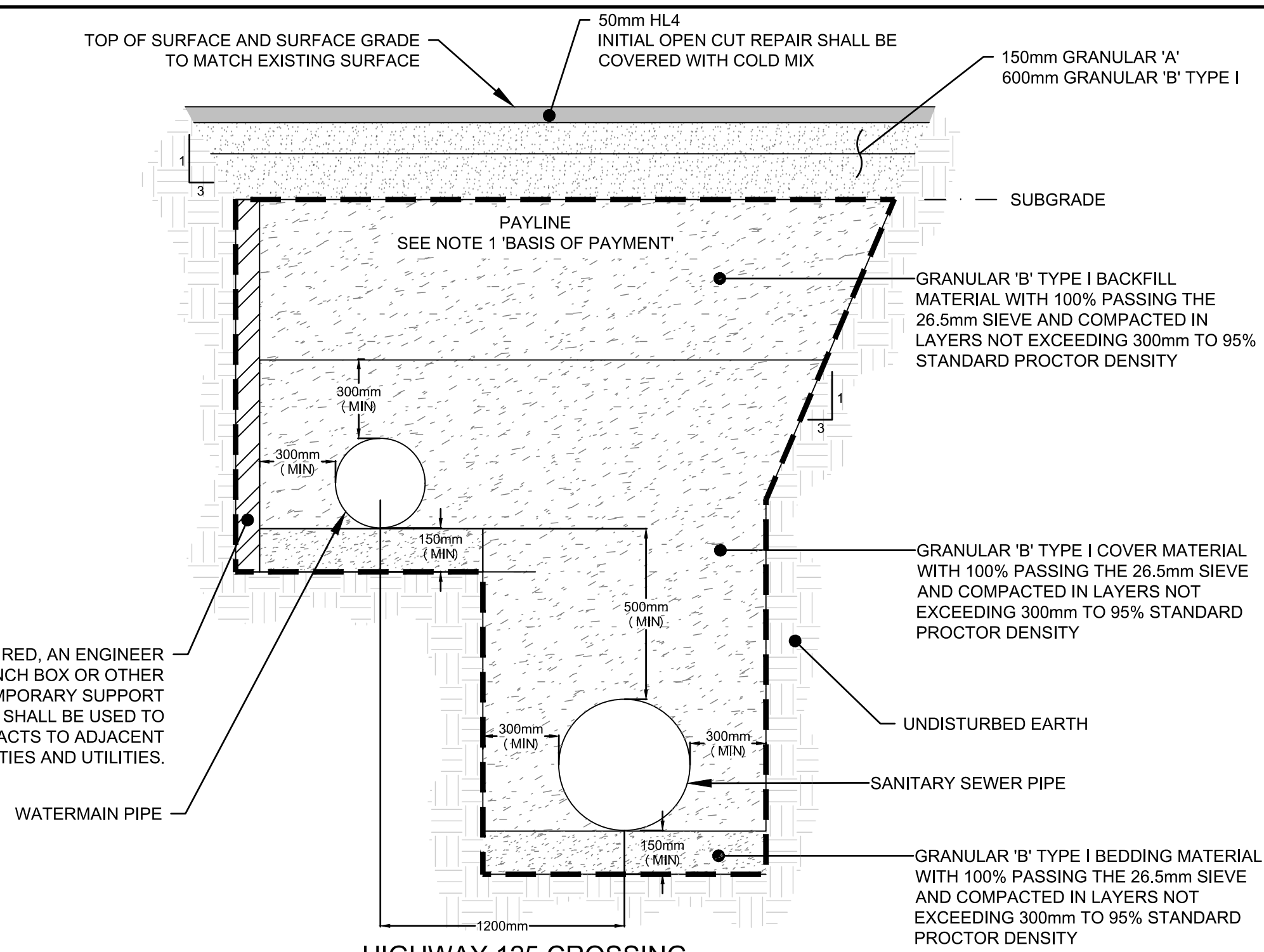
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 Plotted: Feb 06, 2023 3:04pm

LEGEND:	No.	Revision	Date	Initial	Approved 	DETAILS & NOTES	MUNICIPALITY OF RED LAKE		Scale N.T.S.	Drawn By AR Ckd. By IK Dwg. No. A1-369682-L01	Date FEBRUARY 2023 Rev. A
	A	ISSUED FOR TENDER	23.02.06	AR/IK							

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 Last Saved: Feb 06 2023 2:39pm



WATERMAIN AND SANITARY SEWER INSTALLATION IN COMMON TRENCH
N.T.S.



HIGHWAY 125 CROSSING WATERMAIN AND SANITARY SEWER IN COMMON TRENCH
N.T.S.

THE POSITION OF POLE LINES, CONDUITS, WATERMAIN, SEWERS & OTHER OVERGROUND & UNDERGROUND UTILITIES & STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWING, & WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES & STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL UTILITIES & STRUCTURES, & SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM

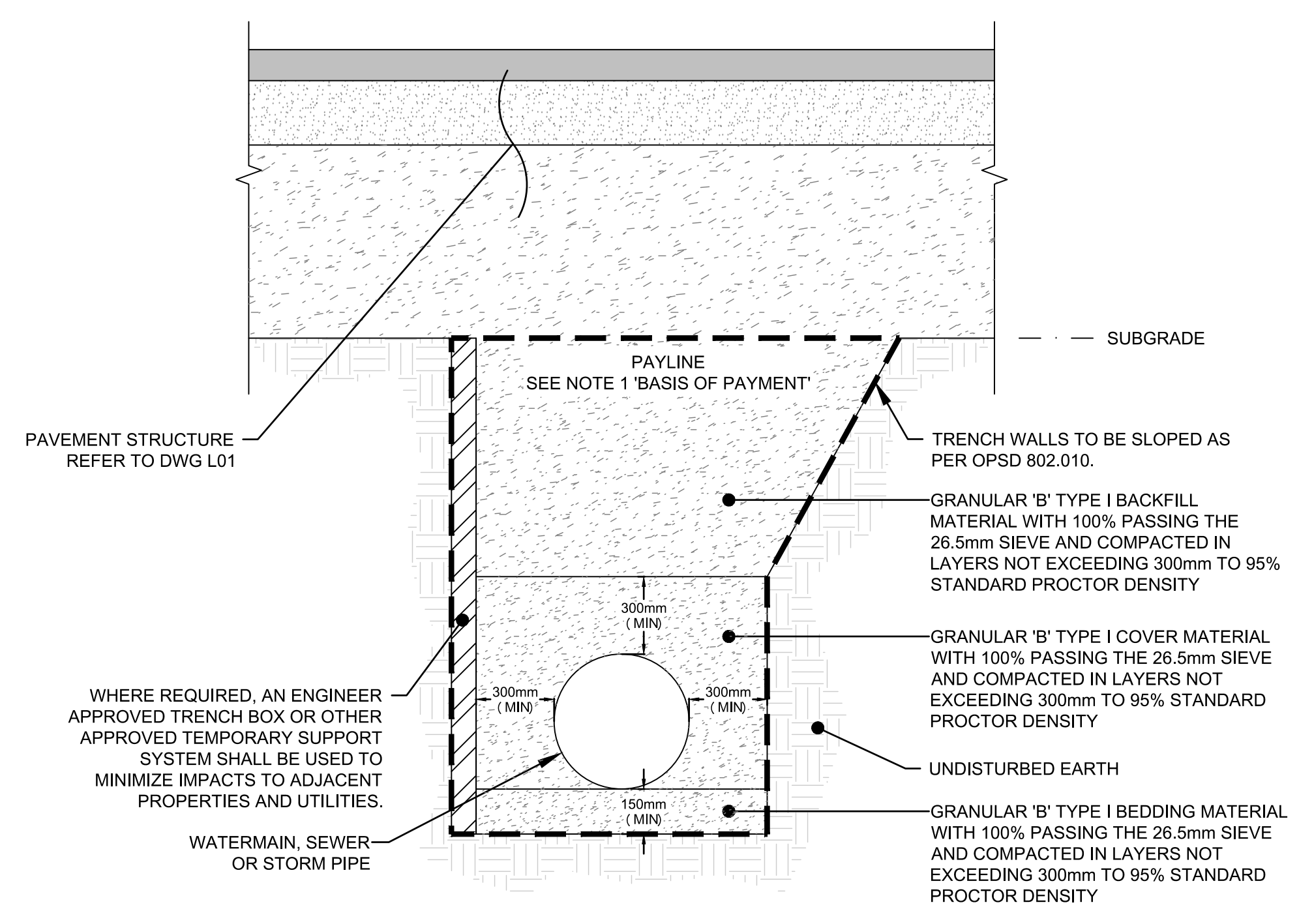
- GENERAL NOTES:**
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCY BEFORE PROCEEDING WITH THE WORK.
 - CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING ALL LINES, LEVELS AND SLOPES TO PRODUCE THE INTENT OF THE WORK.
 - CONTRACTOR TO IDENTIFY AND PROTECT ALL UTILITIES AFFECTED BY THE WORK. CONTRACTOR TO ARRANGE FOR LOCATES PRIOR TO ANY EXCAVATION. CONTRACTOR TO COORDINATE WITH THE APPROPRIATE UTILITY COMPANIES PRIOR TO ANY EXCAVATION ADJACENT TO EXISTING POLE LINES.
 - CONTRACTOR TO PROVIDE STANDARD PROCTOR DENSITIES FOR GRANULAR A AND GRANULAR B TYPE I USED ON THE CONTRACT. GRANULAR MATERIALS TO MEET SPECIFICATIONS OF OPSS.MUNI 1010.
 - CONTRACTOR TO PROVIDE MIX DESIGNS (CURRENT WITHIN THE LAST YEAR) FOR ASPHALT AND CONCRETE MATERIALS USED ON THE CONTRACT. ASPHALT TO MEET SPECIFICATIONS OF OPSS.MUNI 1003 AND CONCRETE TO OPSS.MUNI 1350.
 - CONTRACTORS SHALL INFORM THE MUNICIPALITY A MINIMUM OF 48 HOURS IN ADVANCE OF THEIR INTENTIONS TO PERFORM WORK ON THE WATER AND WASTEWATER INFRASTRUCTURE.

- ROADWAY AND GRADING NOTES:**
- EXCAVATE AND GRADE EXISTING SUBGRADE TO THE SLOPES SHOWN ON THE DRAWINGS. NATIVE SUBGRADE SHALL HAVE A CROSSFALL OF 3% AND THE MATERIAL SHALL BE APPROVED BY THE MUNICIPALITY.
 - FINAL BOULEVARD GRADES TO MATCH SURROUNDING GRADES AND NOT INHIBIT SURFACE RUNOFF. ADJUST ADJACENT EXISTING GROUNDS TO MATCH NEW PROFILE GRADE.
 - REMOVE AND DISPOSE ALL EXCAVATED MATERIAL AT A SITE DESIGNATED BY THE MUNICIPALITY.
 - ROADWAY TO BE RECONSTRUCTED AS FOLLOWS: 50mm HL4 ASPHALT, 150mm GRANULAR 'A', 450mm GRANULAR 'B' TYPE I (WHERE REQUIRED, REFER TO DWG L01)
 - COMPACT ALL ROADWAY GRANULARS TO 100% STANDARD PROCTOR DENSITY.
 - CONCRETE MOUNTABLE CURB AND GUTTER AS PER DETAIL AND CONCRETE SIDEWALKS TO COMPLY WITH OPSS 310.010 AND ARE TO BE 1.5M WIDE.

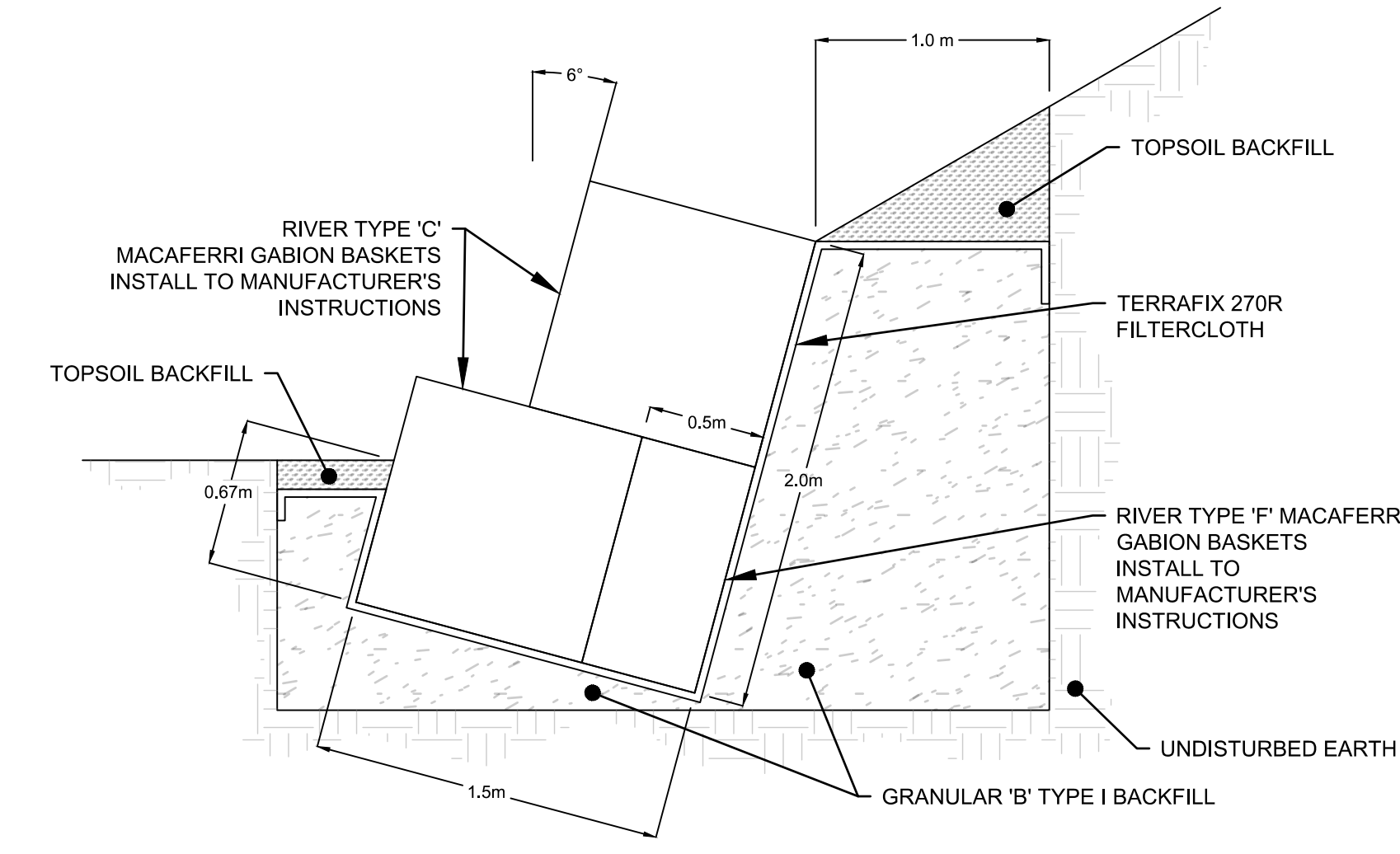
- WATERMAIN NOTES:**
- NEW WATERMAIN SHALL BE "PUSH-ON" JOINT POLYVINYL CHLORIDE (PVC) 150mm DIAMETER DR18, CLASS 150, CONFORMING TO THE REQUIREMENTS OF AWWA C-900-75.
 - WATER SERVICES TO BE BLUE804 MUNICIPAL PEX PIPE (20mm IN DIAMETER, MINIMUM DEPTH OF COVER 2.15M) MEETING THE SPECIFICATIONS OF THE WATERMAIN.
 - EXISTING WATER SERVICES SHALL BE CONNECTED TO THE NEW WATERMAIN WITH NEW MAIN STOPS AND SERVICE SADDLES, AS PER OPSS 1104.010.
 - NEW CURB STOPS TO BE LOCATED AT PROPERTY LINE AND OUT OF DRIVEWAYS AND SIDEWALKS.
 - PRESSURE TEST ALL WATERMANS AT 1035 KPA, AS PER OPSS 701.
 - DISINFECT ALL WATERMANS AND FITTINGS AND PROVIDE BACTERIAL TEST RESULTS, AS PER OPSS 701.
 - POTABLE WATER SUPPLY MUST BE MAINTAINED DURING WATERMAIN REPLACEMENT ACTIVITIES.

- SANITARY SEWER NOTES:**
- NEW SANITARY GRAVITY SEWER PIPE SHALL BE 200mm DIAMETER PVC SDR-35.
 - NEW SANITARY SERVICE CONNECTIONS SHALL BE 125mm DIAMETER PVC SDR-28. A MINIMUM GRADE OF 2% SHALL BE MAINTAINED ON ALL NEW SERVICE CONNECTIONS. ALL CONNECTIONS TO NEW SANITARY MAINS SHALL BE PRE-MANUFACTURED, FABRICATED TEES. SEWER SERVICE CONNECTIONS AS PER OPSS 1006.010.
 - NEW SANITARY MANHOLES SHALL BE PRECAST CONCRETE, 1200mm DIAMETER, AS PER OPSS 701.010.
 - EXISTING SEWAGE FLOW MUST BE MAINTAINED DURING SANITARY SEWER REPLACEMENT ACTIVITIES. CONTRACTOR TO COMPLETE AND REINSTATE ONE SECTION OF SEWER PIPING AT A TIME AND IMPLEMENT A SANITARY BY-PASS PLAN.

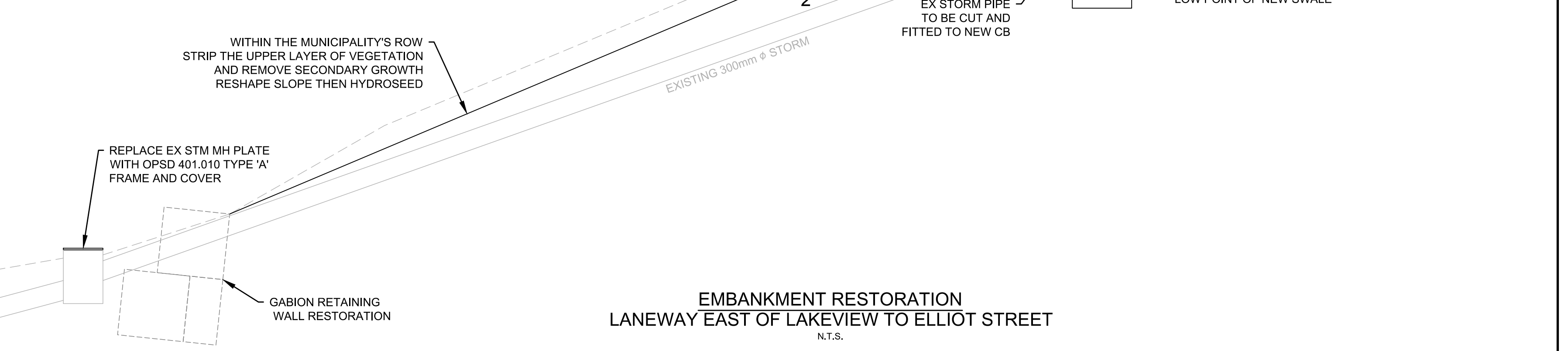
- BASIS OF PAYMENT:**
- THE UNIT PRICE TENDERED FOR THE WATERMAIN AND SANITARY SEWER SHALL INCLUDE PROVISIONS OF ALL GRANULAR MATERIAL INCLUDING PIPE BEDDING, COVER MATERIAL AND BACKFILL MATERIAL UP TO THE TOP OF SUBGRADE.



PIPE INSTALLATION IN SINGLE TRENCH DETAIL
N.T.S.



GABION RETAINING WALL RESTORATION
N.T.S.



EMBANKMENT RESTORATION LANEWAY EAST OF LAKEVIEW TO ELLIOT STREET
N.T.S.

LEGEND:				
No.	Revision	Date	Initial	
A	ISSUED FOR TENDER	23.02.06	AR/IK	

Approved

J. DE LUCA
10009251
FEB 6/23
PROVINCE OF ONTARIO

I. M. KELLY
100501684
FEB 6/23
PROVINCE OF ONTARIO

DETAILS & NOTES

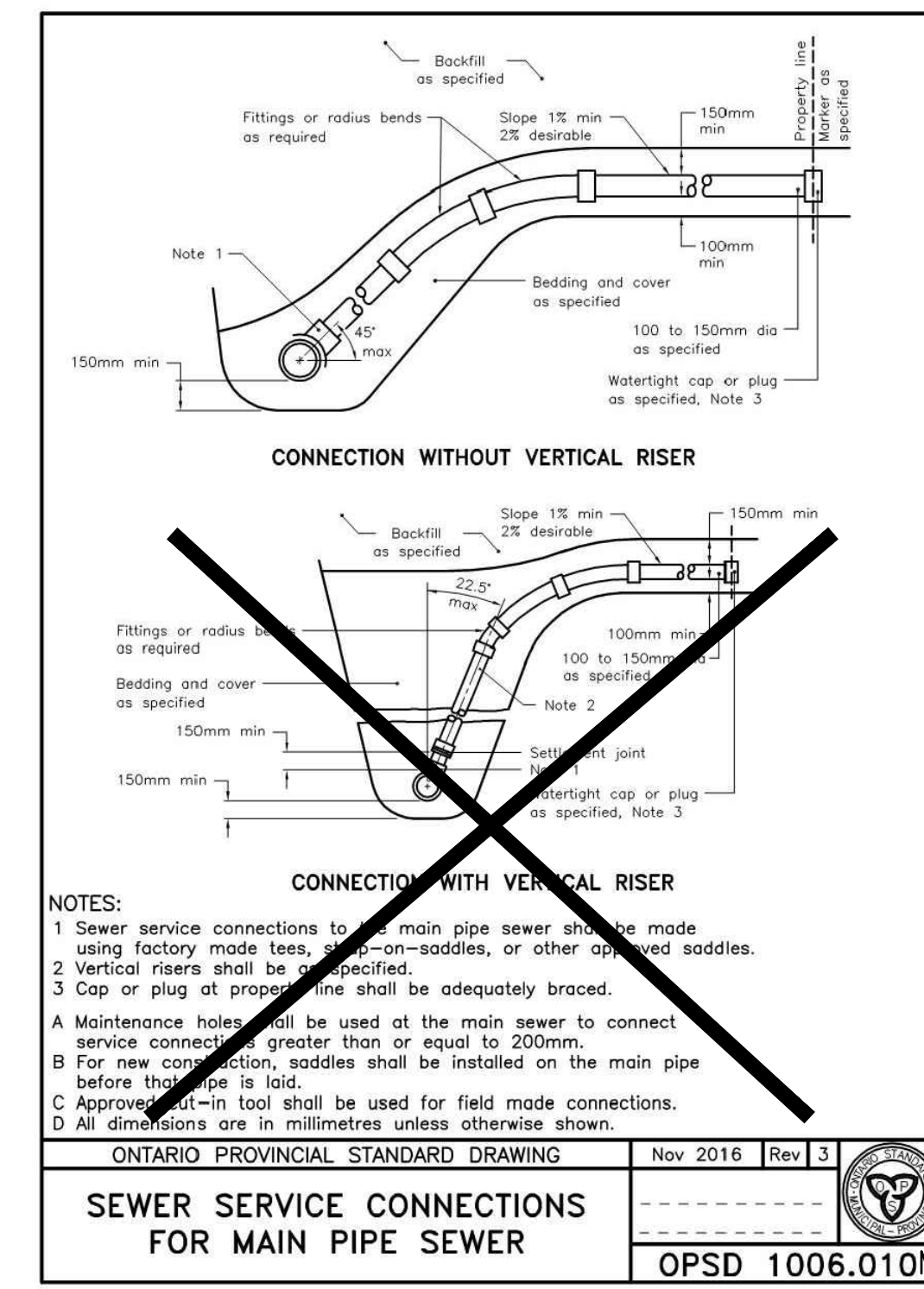
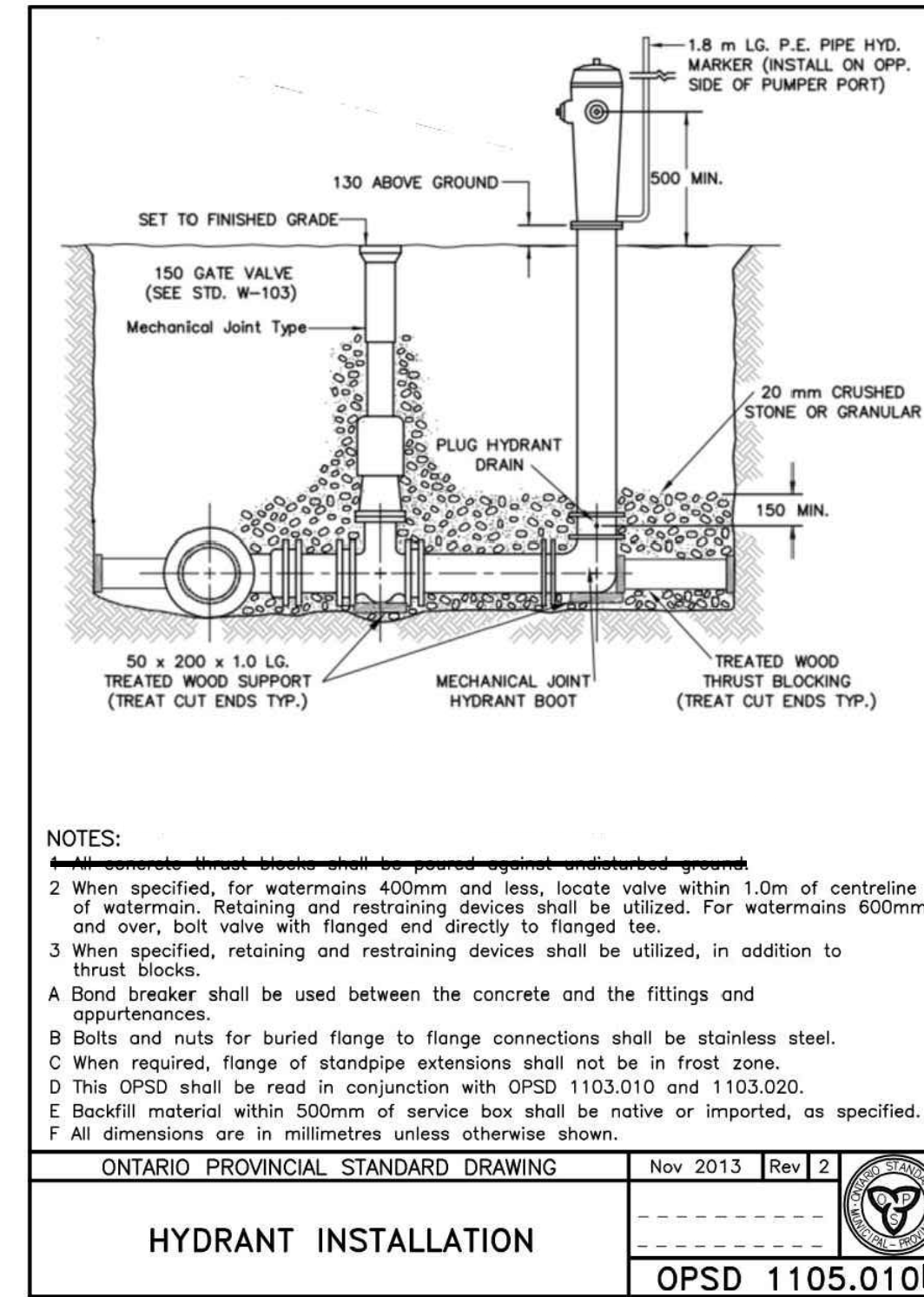
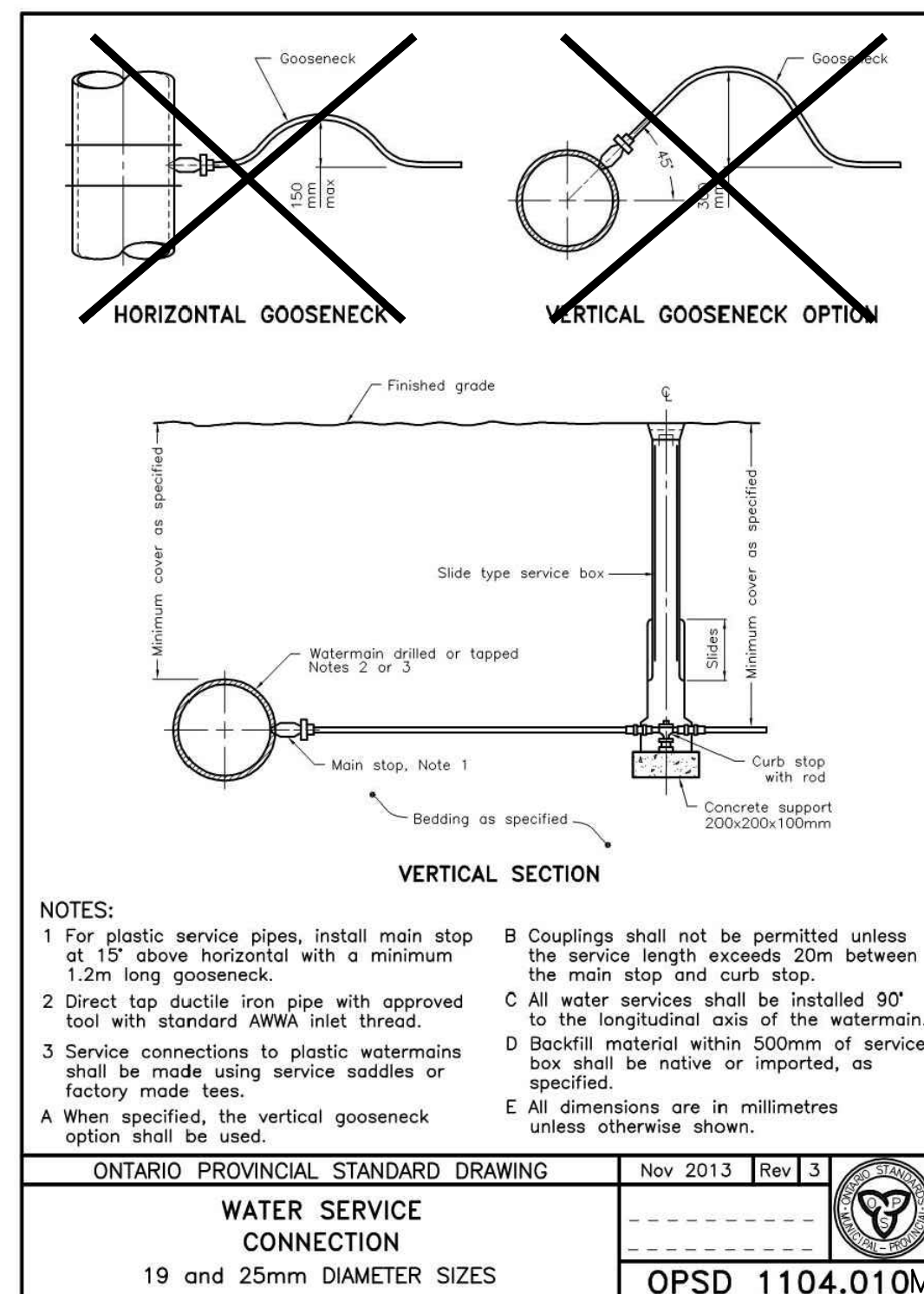
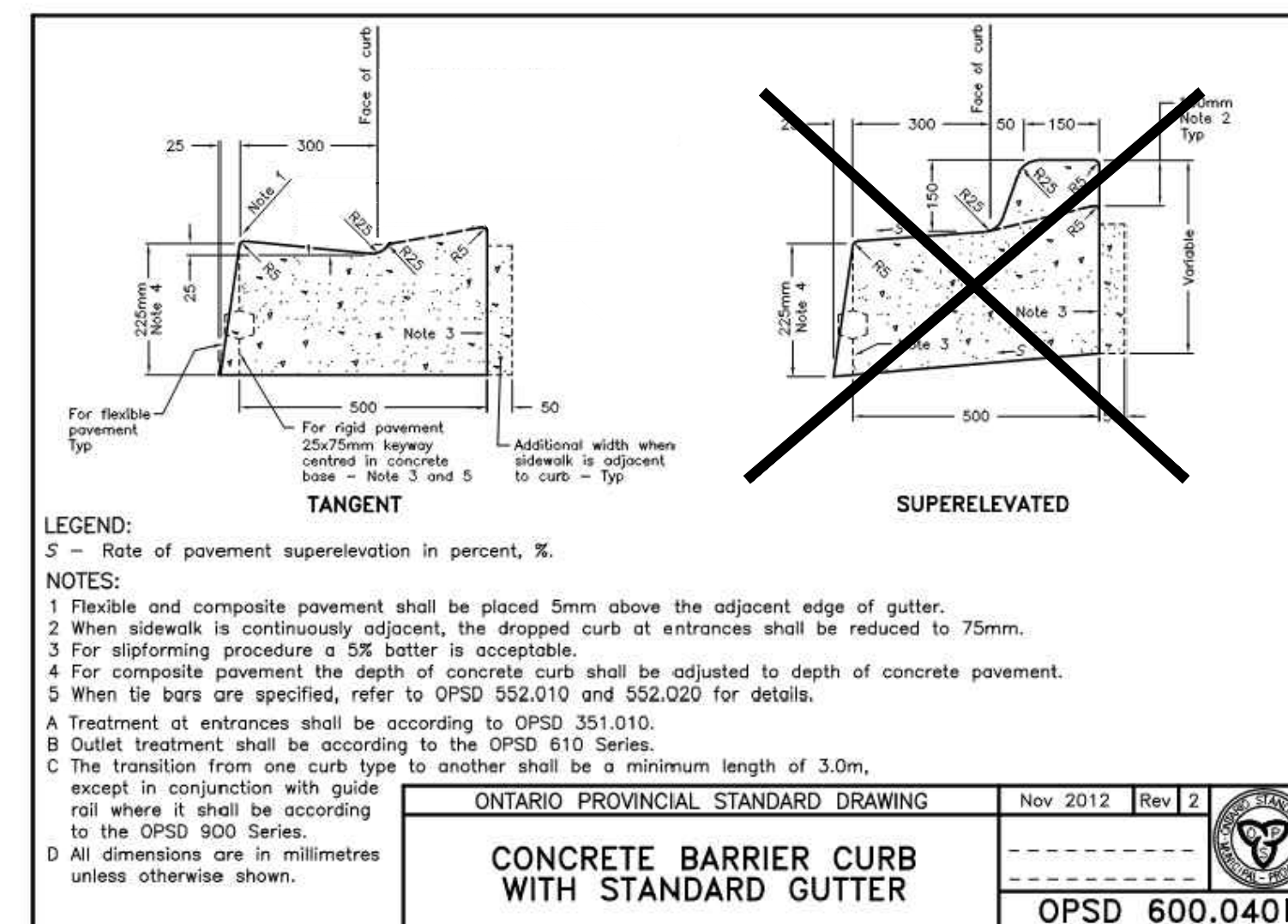
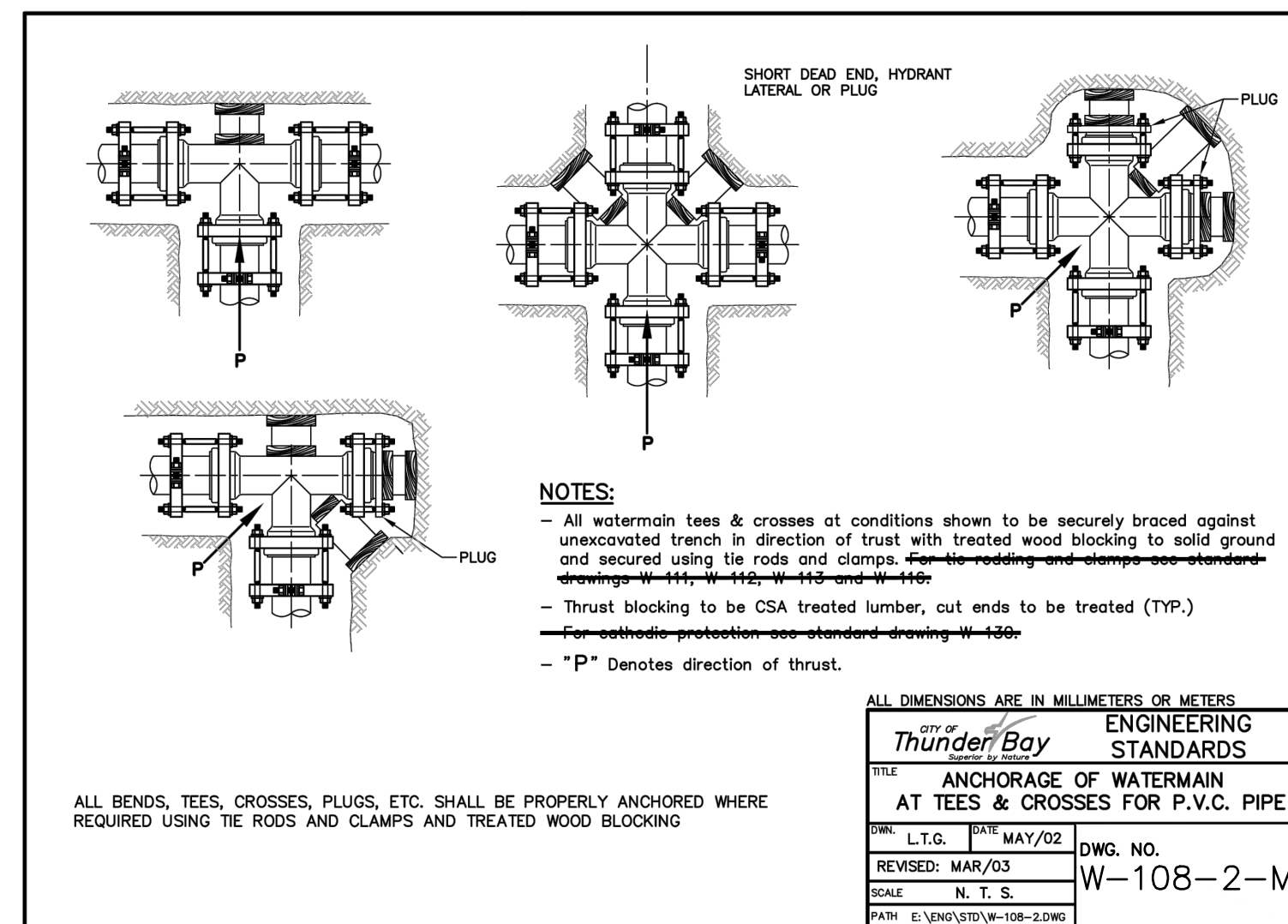
TYPICAL TRENCH AND EMBANKMENT DETAILS

MUNICIPALITY OF RED LAKE

COCHENOUR INFRASTRUCTURE UPGRADES

Scale	Drawn By AR	Date
N.T.S.	Ckd. By IK	FEBRUARY 2023
	Dwg. No. A1-369682-L02	Rev. A

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 Plotted: Feb 06, 2023 3:04pm

LEGEND		Approved		DETAILS & NOTES		MUNICIPALITY OF RED LAKE			
				MODIFIED STANDARD DRAWINGS		COCHENOUR INFRASTRUCTURE UPGRADES			
No.	Revision	Date	Initial			Scale: N.T.S.		Drawn By: AR Ckd. By: IK Dwg. No.: A1-369682-L03	Date: FEBRUARY 2023 Rev.: A