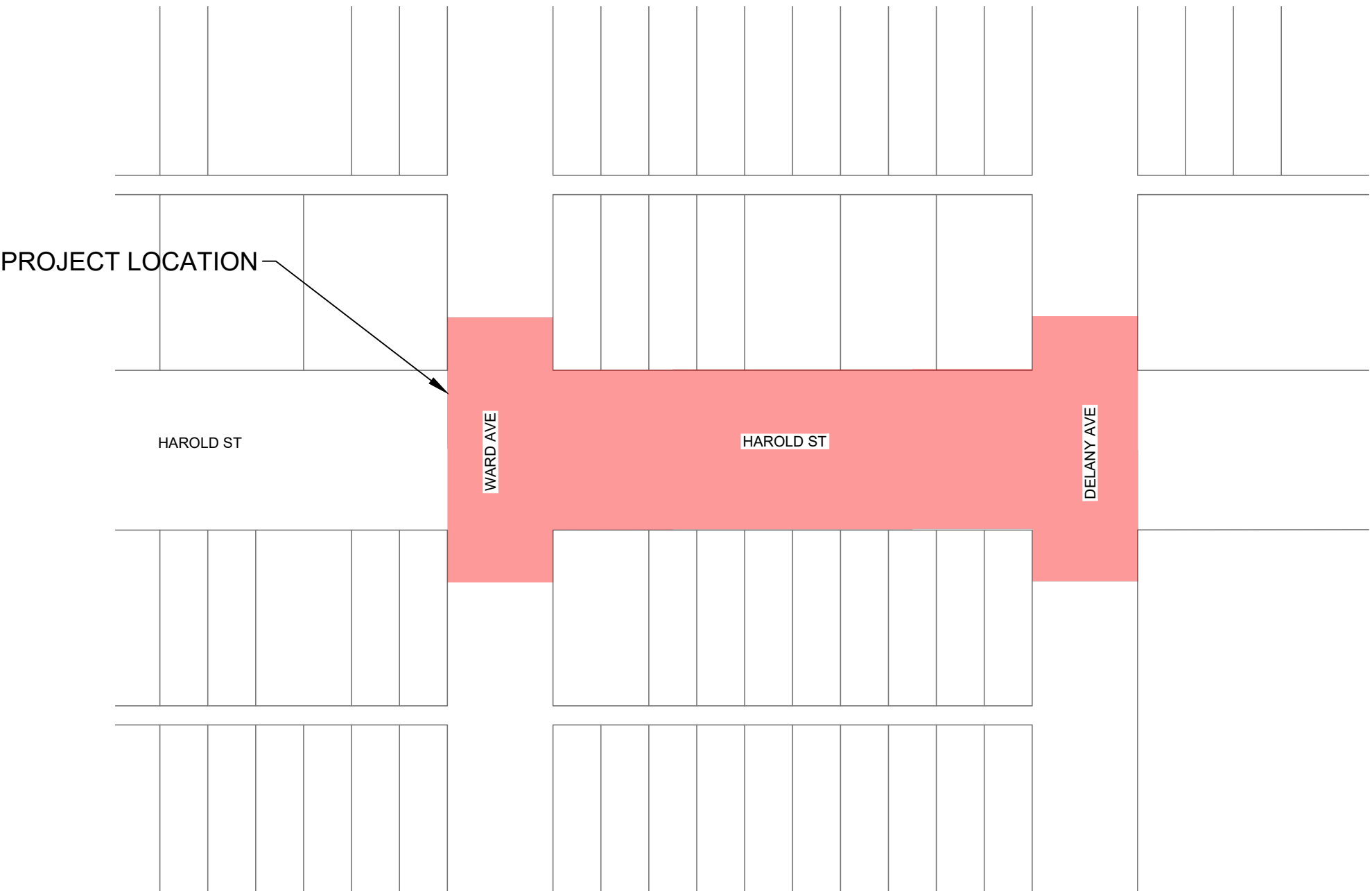
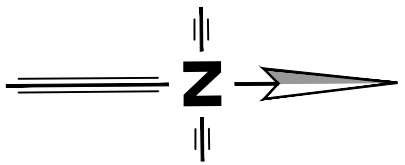
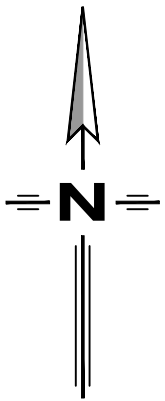


HAROLD STREET NORTH RECONSTRUCTION SLOCAN, BC

ISSUED FOR CONSTRUCTION
LEL PROJ#: 277-1



PROJECT LOCATION MAP
SCALE 1:10000



OVERALL PROJECT
SCALE 1:1000

DRAWING INDEX:

- C000 - TITLE
- C100 - OVERALL REMOVALS PLAN
- C101 - OVERALL SITE PLAN
- C102 - OVERALL SITE GRADING PLAN
- C103 - OVERALL SIGN & PAVEMENT MARKING PLAN
- C104 - PRELIMINARY TRAFFIC MANAGEMENT PLAN
- C105 - OVERALL STORMWATER MANAGEMENT PLAN
- C201 - ROADWORKS PLAN/PROFILE
- C202 - UTILITY PLAN/PROFILE
- C301 - TYPICAL ROAD CROSS-SECTIONS
- C302 - ROAD CROSS-SECTIONS - HAROLD STREET 1
- C303 - ROAD CROSS-SECTIONS - HAROLD STREET 2
- C501 - CONSTRUCTION DETAILS
- C502 - CURB RETURN DETAILS
- C503 - CRITICAL TIE-IN DETAILS 1
- C504 - CRITICAL TIE-IN DETAILS 2
- C801 - GENERAL CONSTRUCTION NOTES
- E1 - STREETLIGHT LAYOUT
- E2 - STREETLIGHTING DETAILS
- L-1.0 - LANDSCAPE PLAN
- L-1.0 - LANDSCAPE PLAN
- L-1.0 - LANDSCAPE PLAN
- L-1.3 - PLANT SCHEDULE
- L-2.0 - LANDSCAPE DETAILS
- L-2.1 - LANDSCAPE DETAILS
- L-2.2 - LANDSCAPE DETAILS
- L-2.3 - LANDSCAPE DETAILS
- L-2.4 - LANDSCAPE DETAILS

PROJECT No: 277-1 DWG No: C000 SHEET: 1 OF 17 PERMIT No: 1001279

PREPARED FOR:



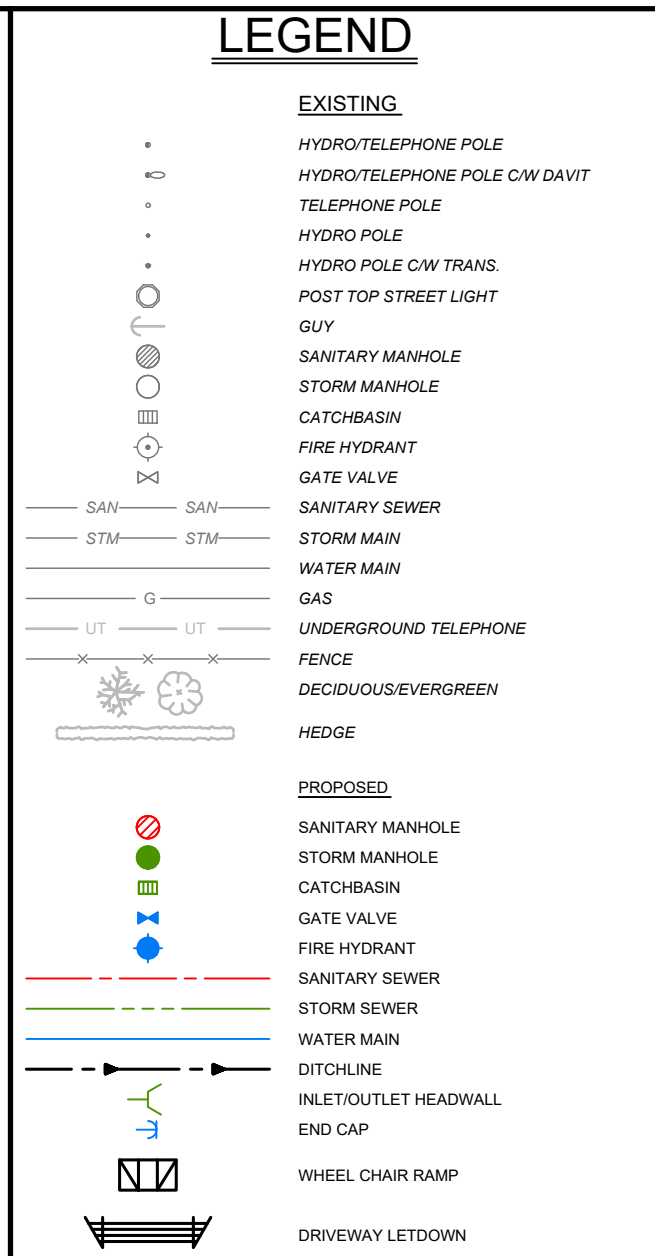
PREPARED BY:



A201 - 2110 11 AVENUE NE
PO BOX 106 SALMON ARM, BC V1E 4N2
PH. (250) 832-3220

DESIGN BY: DLP
DESIGN DATE: 2022/08/29
REVIEWED BY: BTL
DRAWN BY: PKM
REVISION NUMBER: 2
REVISION DATE: 2026/08/26

ALL MEASUREMENTS IN m UNLESS OTHERWISE NOTED.

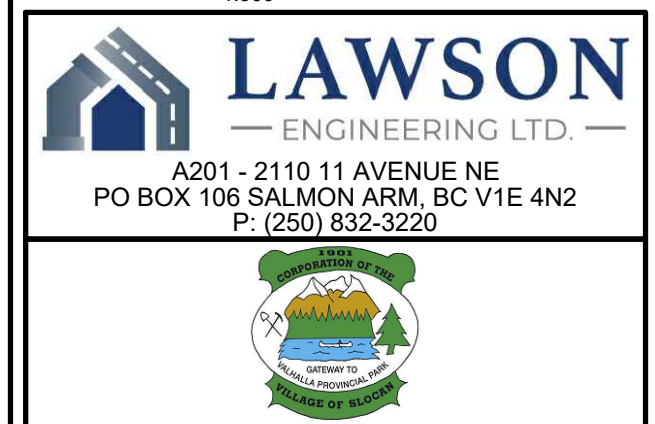


DISCLAIMER:
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DIMENSIONS AND UTILITY LOCATIONS AND REPORT ALL
ERRORS AND OMISSIONS PRIOR TO COMMENCING
WORK.

2	2026/08/26	ISSUED FOR CONSTRUCTION	ETO	BTI
1	2026/04/26	ISSUED FOR TENDER	ETO	BTI
C	2025/12/10	RE-ISSUED FOR TENDER REVIEW	ETO	BTI
0	2022/12/22	ISSUED FOR TENDER	PAH	BTI
NO.	DATE YEAR/MM/DD	DESCRIPTION	BY	APP'D

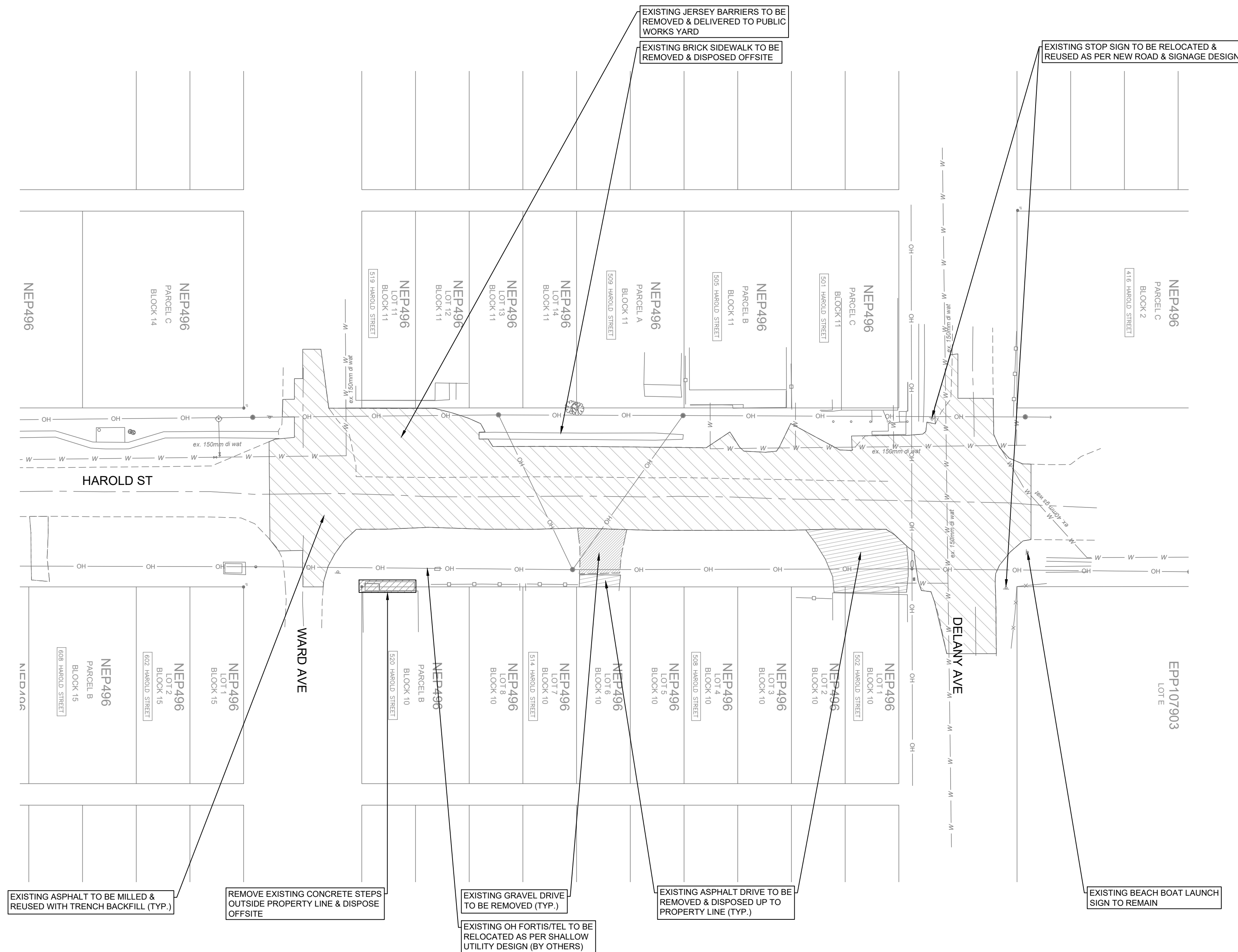
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	DATE	2022-08-26
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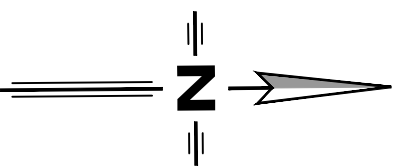
SCALES:  Meters
1:500



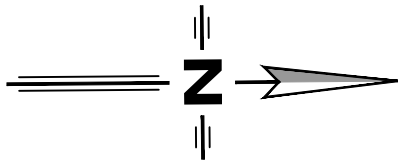
OVERALL REMOVALS PLAN

DWG. No. C100

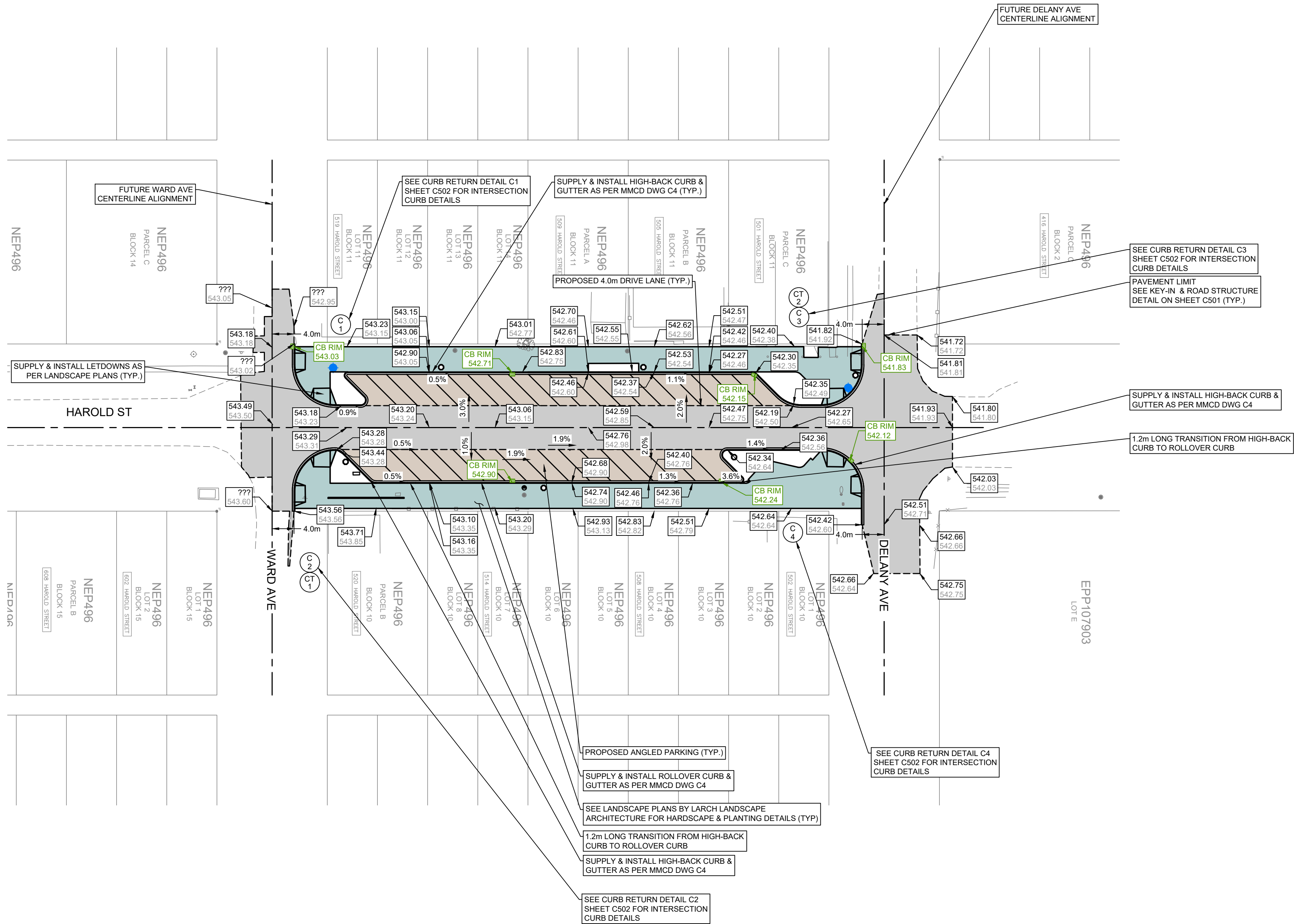
REV. No.
2



NOTE:
1 - ALL WATER SERVICE ELEVATIONS AND EXISTING COMPOSITIONS TO BE CONFIRMED IN FIELD.
2 - ALL PROPOSED WORKS ON THE EAST SIDE OF HAROLD STREET ARE TO BE CONSIDERED OPTIONAL WORKS IN THE RFP. DRYWELL CONSTRUCTION IS EXCLUDED FROM THIS, ALONG WITH SANITARY SERVICES STUBS TO WESTERN PROPERTIES.



DESIGN ELEV.
EXISTING ELEV.



LEGEND

EXISTING	
	HYDRO/TELEPHONE POLE
	TELEPHONE POLE
	HYDRO POLE
	HYDRO POLE CW TRANS
	POST TOP STREET LIGHT
	GUY
	SANITARY MANHOLE
	STORM MANHOLE
	CATCH BASIN
	FIRE HYDRANT
	GATE VALVE
	SANITARY SEWER
	STORM SEWER
	WATER MAIN
	GAS
	UNDERGROUND TELEPHONE
	FENCE
	DECIDUOUS/EVERGREEN
	HEDGE
PROPOSED	
	SANITARY MANHOLE
	STORM MANHOLE
	CATCH BASIN
	GATE VALVE
	FIRE HYDRANT
	SANITARY SEWER
	STORM SEWER
	WATER MAIN
	DITCH LINE
	INLET/OUTLET HEADWALL
	END CAP
	WHEEL CHAIR RAMP
	DRIVEWAY/LETDOWN
	ASPHALT
	CONCRETE HARDSCAPE

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WORK.

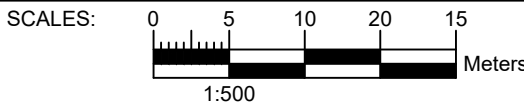
DRAWINGS ARE NOT TO BE SCALED

NO.	DATE	DESCRIPTION	BY	APPD
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1	2026/04/26	ISSUED FOR TENDER	ETD	BTL
C	2025/12/10	RE-ISSUED FOR TENDER REVIEW	ETD	BTL
0	2022/12/22	ISSUED FOR TENDER	PAH	BTL

REVISIONS

	DESIGN	DLP
	DRAWN	PKM
	DATE	2022/08/26
	CHECKED	BTL

PERMIT No.: 1001279



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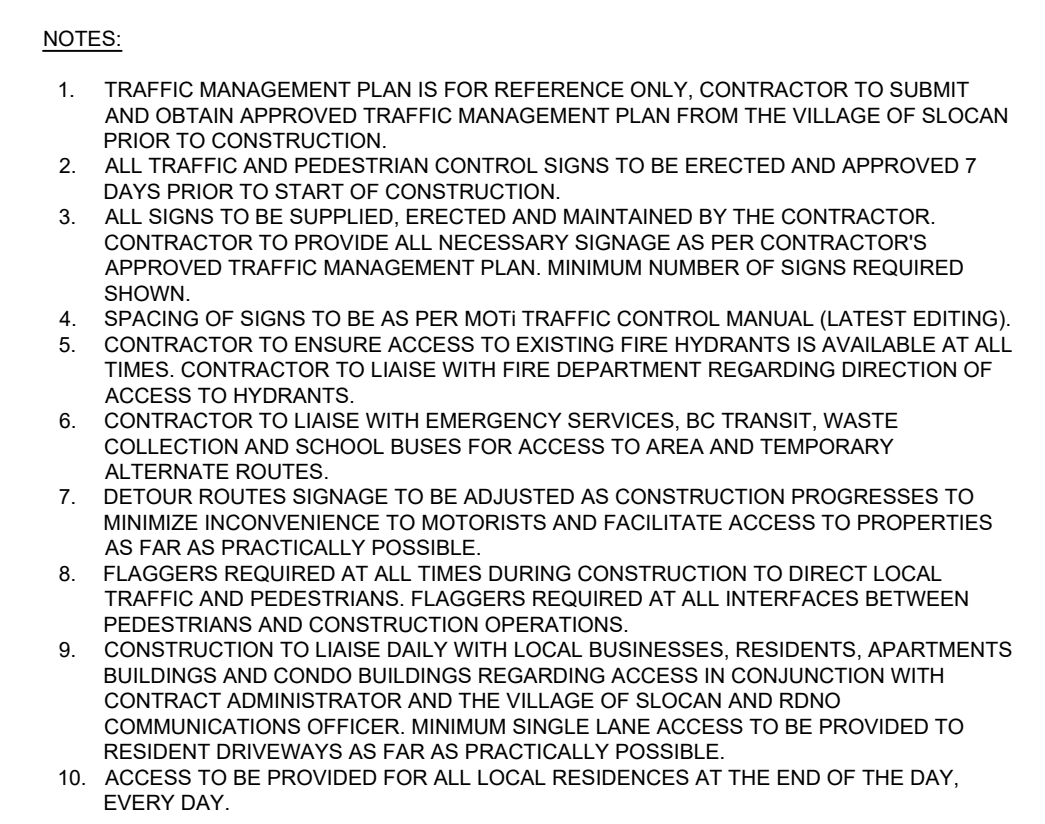
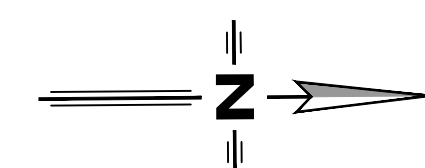
A201 - 2110 11 AVENUE NE
PO BOX 106 SALMON ARM, BC V1E 4N2
P: (250) 832-3220

HAROLD STREET
NORTH
RECONSTRUCTION
SLOCAN, BC

OVERALL SITE GRADING PLAN

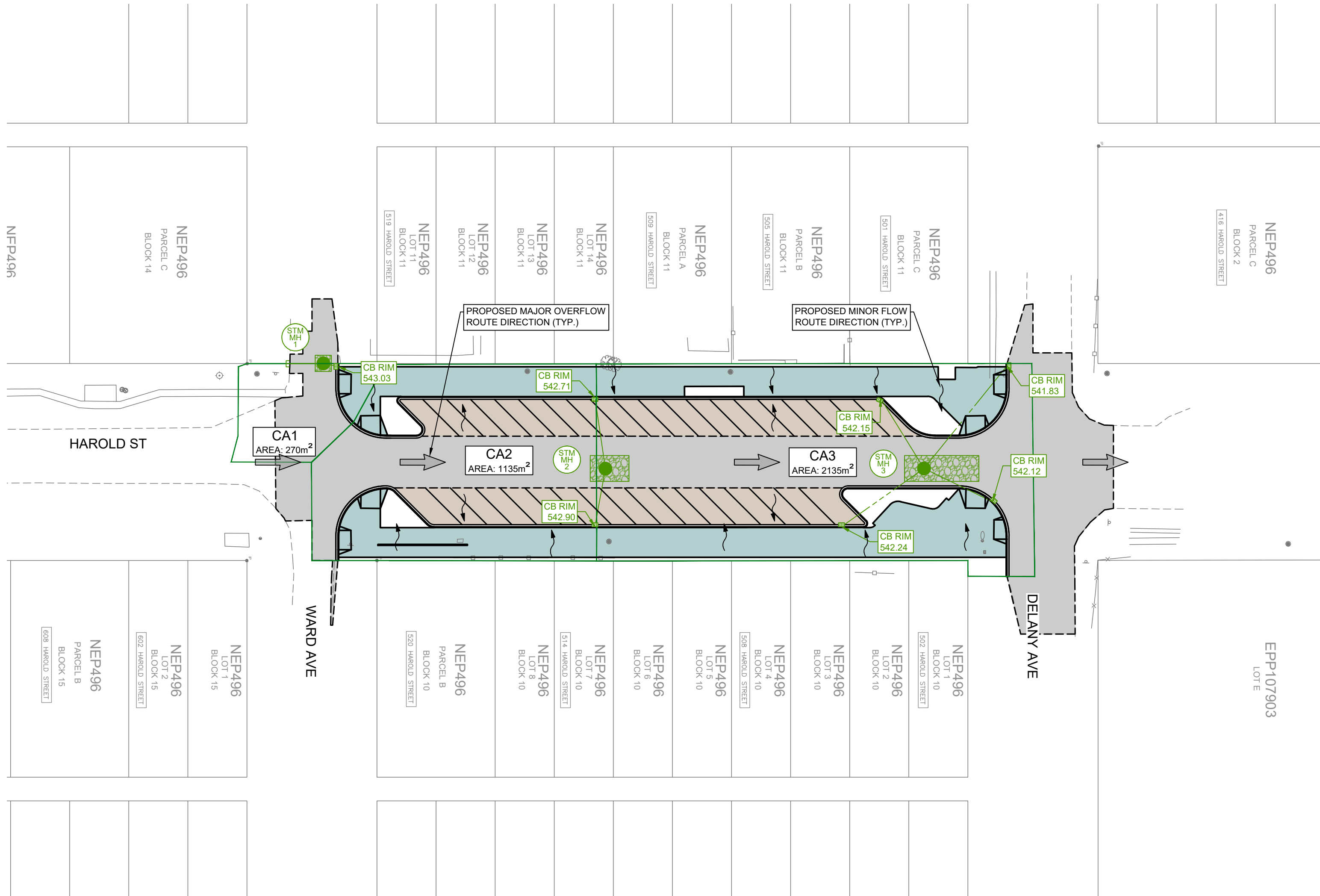
PROJECT No.	277-1
SHEET	4 OF 17
DWG. No.	C102
REV. No.	2

FLOT August 26, 2026 COMPUTER+2PROJECTS2771 - CIVIL ENGINEERING DRAWINGS1 - DESIGN2771 - HAROLD STREET RECONSTRUCTION - DESIGN - PE.DWG (PE.DWG NAMES)



LEGEND				
<u>EXISTING</u>				
*	HYDRO/TELEPHONE POLE			
+	HYDRO/TELEPHONE POLE CW DAVIT			
•	TELEPHONE POLE			
—	HYDRO POLE			
—○—	HYDRO POLE CW TRANS.			
C	POST TOP STREET LIGHT			
●	GUY			
●	SANITARY MANHOLE			
●	STORM MANHOLE			
■	CATCHBASIN			
⬢	FIRE HYDRANT			
—V—	GATE VALVE			
——S—S——	SANITARY SEWER			
——STM—STM——	STORM MAIN			
—————	WATER MAIN			
——G——	GAS			
——UT——UT——	UNDERGROUND TELEPHONE			
X X X X	DECIDUOUS/EVERGREEN			
~~~~~	HEDGE			
<u>PROPOSED</u>				
●	SANITARY MANHOLE			
●	STORM MANHOLE			
■	CATCHBASIN			
⬢	GATE VALVE			
⬢	FIRE HYDRANT			
——S—S——	SANITARY SEWER			
——STM—STM——	STORM SEWER			
—————	WATER MAIN			
——- - - - -	DITCHLINE			
→	INLET/OUTLET HEADWALL			
	END CAP			
□	WHEEL CHAIR RAMP			
=	DRIVEWAY LETDOWN			
[Grey Box]	ASPHALT			
[Blue Box]	CONCRETE/HARDSCAPE			
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No.	DATE	DESCRIPTION	BY	APP'D
2	2026/08/26	ISSUED FOR CONSTRUCTION	ETD	BTL
1	2026/04/26	ISSUED FOR TENDER	ETD	BTL
C	2025/12/10	RE-ISSUED FOR TENDER REVIEW	ETD	BTL
0	2022/12/22	ISSUED FOR TENDER	PAH	BTL
No.	DATE YEAR/MONTH	DESCRIPTION	BY	APP'D
<b>REVISIONS</b>				
			DESIGN	DLP
			DRAWN	PKM
			DATE	2022/08/26
			CHECKED	BTL
PERMIT No.: 1001279				
SCALES: 0      5      10      20      15  ----- ----- ----- -----  1:500                                          Meters				
LAWSON      — ENGINEERING LTD. —   A201 - 2110 11 AVENUE NE PO BOX 106 SALMON ARM, BC V1E 4N2 P: (250) 832-3220				
HAROLD STREET NORTH RECONSTRUCTION SLOCAN, BC				
PRELIMINARY TRAFFIC MANAGEMENT PLAN				
PROJECT No. <span style="float: right; font-size: 1.5em;">277-1</span>				
SHEET <span style="font-size: 1.5em;">6</span> OF <span style="font-size: 1.5em;">17</span>				
DWG. No. <span style="font-size: 1.5em;">C104</span>			REV. No. <span style="font-size: 1.5em;">2</span>	

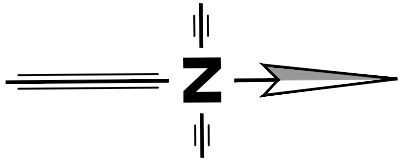
PLOT August 26, 2026 COMPUTER = Z:\PROJECTS\277-1 - CIVIL ENGINEERING\DRAWINGS\SI - DESIGN\277-1 - HAROLD STREET RECONSTRUCTION - DESIGN - ECDWG (XREF-DWG-WALES).



Drywell Sizing Summary

Drywell #	Drainage Area	50% MAR	MAR	Assumed Permeability Rate	Infiltrative Surface Area Required	Infiltrative Surface Area Provided	Storage Required	Storage Provided	Width	Length	Depth
	(m ² )	(m)	(m)	(m/s)	(m ² )	(m ² )	(m ³ )	(m ³ )	(m)	(m)	(m)
DW1	270.00	0.015	0.03	1.00E-05	4.7	6.3	4.1	4.5	2.5	2.5	1.80
DW2	1135.00	0.015	0.03	1.00E-05	19.7	24.0	17.0	17.3	4.0	6.0	1.80
DW3	2135.00	0.015	0.03	1.00E-05	37.1	46.0	32.0	33.1	4.0	11.5	1.80
SUM	3540.000				61.5	76.3	53.1	54.9			

* PERMEABILITY RATE & GROUND WATER DEPTH TO BE CONFIRMED DURING CONSTRUCTION BY GEOTECHNICAL ENGINEER



LEGEND

- EXISTING**

  - HYDROTELEPHONE POLE
  - TELEPHONE POLE
  - HYDRO POLE
  - HYDRO POLE CW TRANS
  - POST TOP STREET LIGHT
  - GUY
  - SANITARY MANHOLE
  - STORM MANHOLE
  - CATCHBASIN
  - FIRE HYDRANT
  - GATE VALVE
  - SANITARY SEWER
  - STORM MAIN
  - WATER MAIN
  - GAS
  - UNDERGROUND TELEPHONE
  - FENCE
  - DECIDUOUS/EVERGREEN
  - HEDGE
- PROPOSED**

  - SANITARY MANHOLE
  - STORM MANHOLE
  - CATCHBASIN
  - GATE VALVE
  - FIRE HYDRANT
  - SANITARY SEWER
  - STORM SEWER
  - WATER MAIN
  - DITCHLINE
  - INLET/OUTLET HEADWALL
  - END CAP
  - WHEEL CHAIR RAMP
  - DRIVEWAY LETDOWN
  - ASPHALT
  - CONCRETE/HARDSCAPE

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2	2026/08/26	ISSUED FOR CONSTRUCTION	ETD	BTL
1	2026/04/26	ISSUED FOR TENDER	ETD	BTL
C	2025/12/10	RE-ISSUED FOR TENDER REVIEW	ETD	BTL
0	2022/12/22	ISSUED FOR TENDER	PAH	BTL
NO.	DATE YEARMMDD	DESCRIPTION	BY	APPD

REVISIONS

	DESIGN	DLP
	DRAWN	PKM
	DATE	2022/08/26
	CHECKED	BTL

PERMIT No.: 1001279



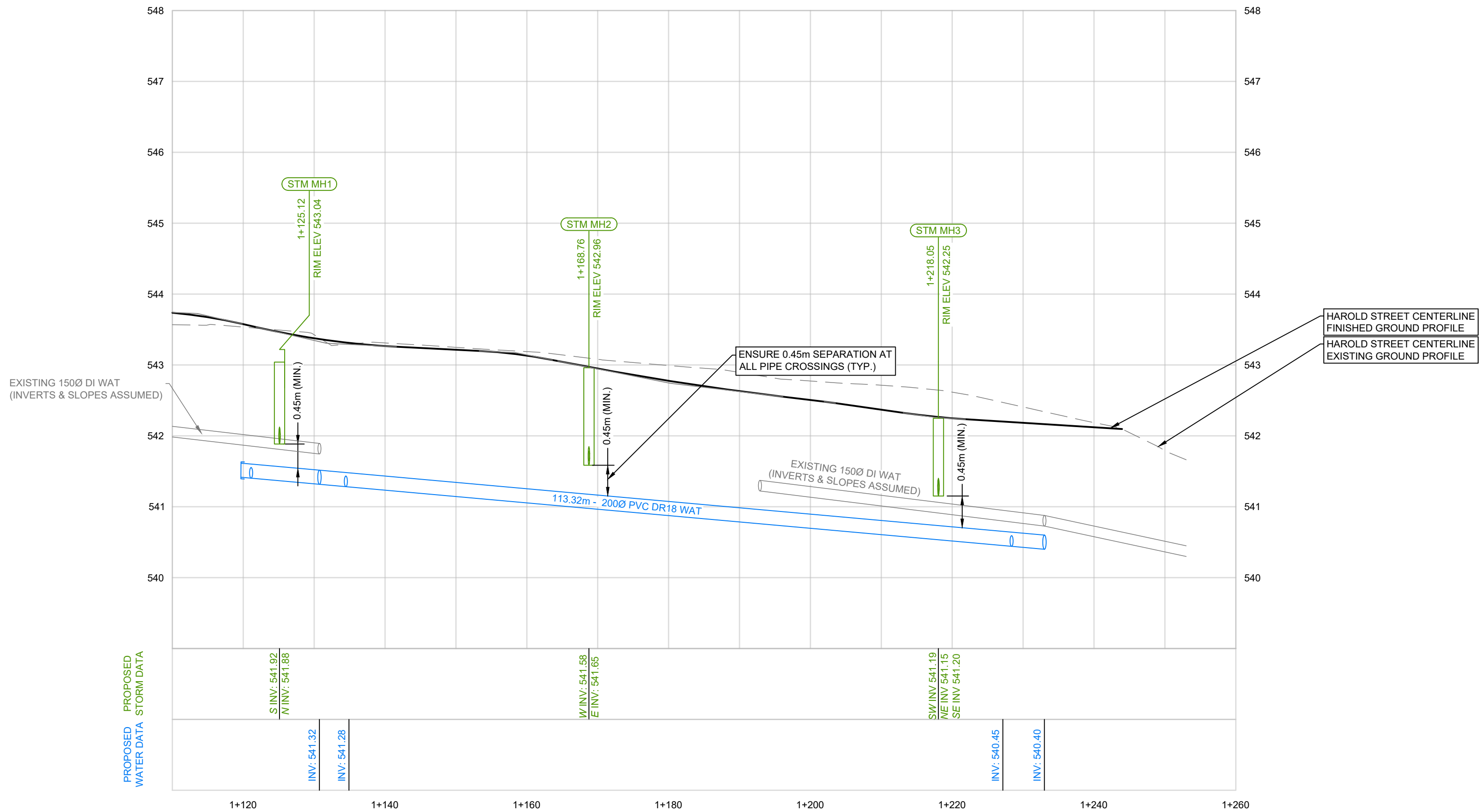
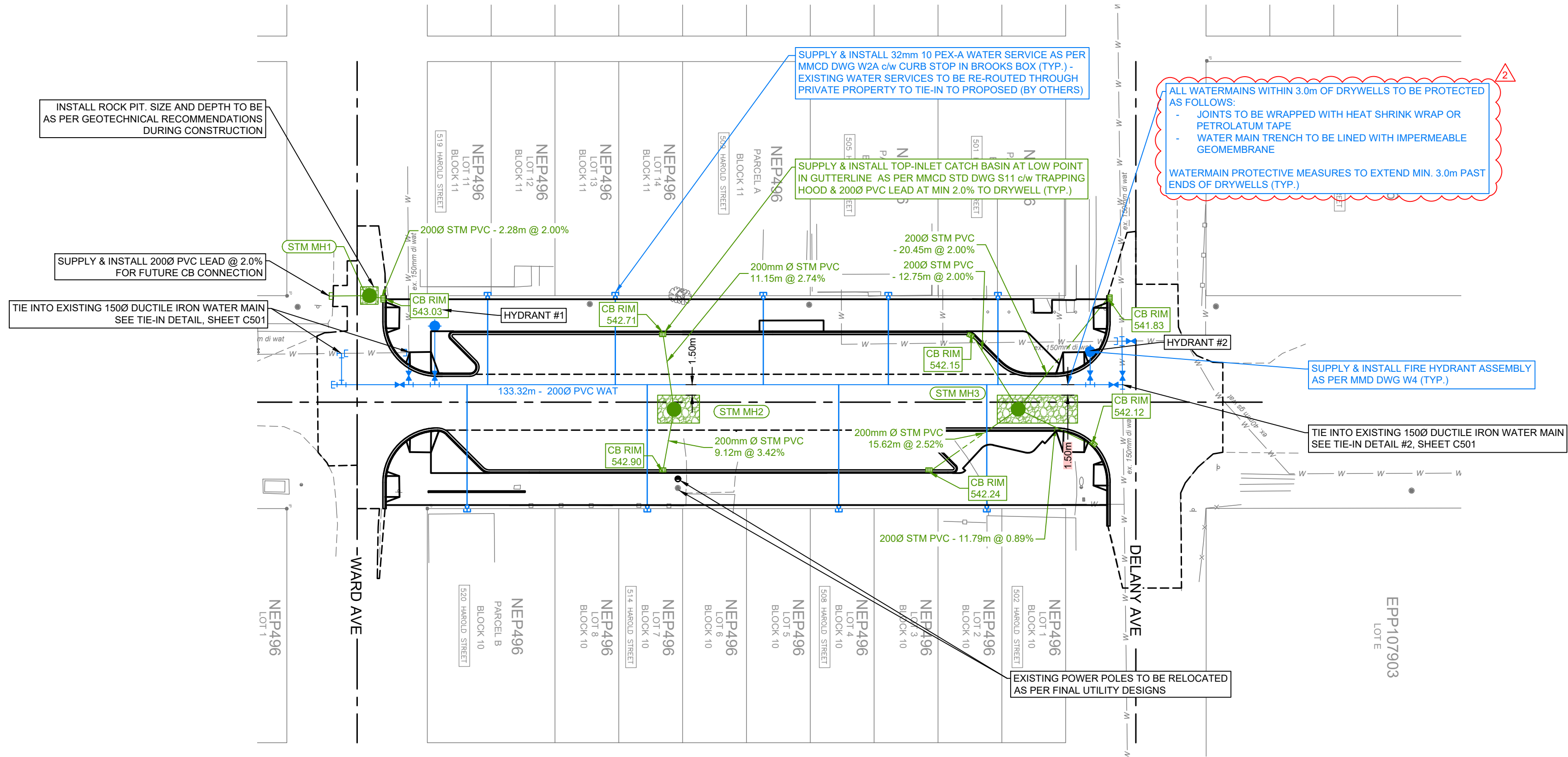
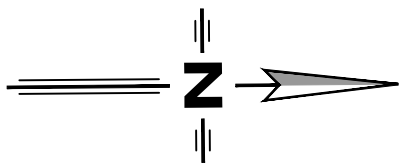
HAROLD STREET  
NORTH  
RECONSTRUCTION  
SLOCAN, BC

OVERALL  
STORMWATER  
MANAGEMENT PLAN

PROJECT No.	277-1
SHEET	7 OF 17
DWG. No.	C105
REV. No.	2

PLOT August 26, 2026 COMPUTER-A2-PROJECTB2771 - CIVIL ENGINEERING DRAWINGS - DESIGN - F2-DWG (REF-DWG-NAMES)





## LEGEND

EXISTING	
	HYDRO/TELEPHONE POLE
	HYDRO/TELEPHONE POLE c/w DAVIT
	TELEPHONE POLE
	HYDRO POLE
	HYDRO POLE c/w TRANS
	POST TOP STREET LIGHT
	GUY
	SANITARY MANHOLE
	STORM MANHOLE
	CATCH BASIN
	FIRE HYDRANT
	GATE VALVE
	SANITARY SEWER
	STORM MAIN
	WATER MAIN
	GAS
	UNDERGROUND TELEPHONE
	FENCE
	DECIDUOUS/EVERGREEN
	HEDGE
PROPOSED	
	SANITARY MANHOLE
	STORM MANHOLE
	CATCH BASIN
	GATE VALVE
	FIRE HYDRANT
	SANITARY SEWER
	STORM SEWER
	WATER MAIN
	DITCH LINE
	INLET/OUTLET HEADWALL
	END CAP
	WHEEL CHAIR RAMP
	DRIVEWAY LETDOWN
	ASPHALT
	CONCRETE
	LANDSCAPING

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WORK.

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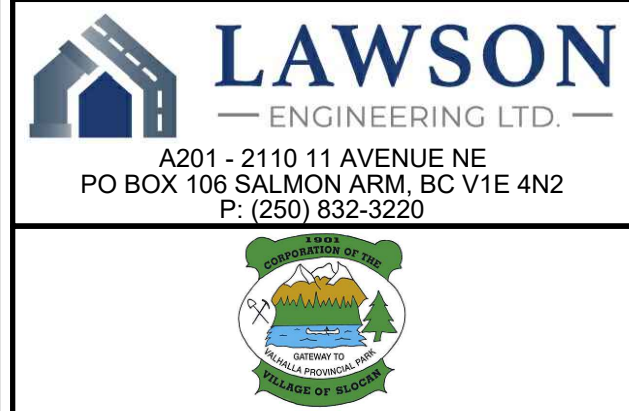
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1	2026/04/26	ISSUED FOR TENDER	ETD	BTL
C	2025/12/10	RE-ISSUED FOR TENDER REVIEW	ETD	BTL
0	2022/12/22	ISSUED FOR TENDER	PAH	BTL

### REVISIONS

	DESIGN	DLP
	DRAWN	PKM
	DATE	2022/08/26
	CHECKED	BTL

PERMIT No.: 1001279

SCALES: 0 5 10 20 15  
H = 1:500 V = 50 Meters



HAROLD STREET  
NORTH  
RECONSTRUCTION  
SLOCAN, BC

UTILITY  
PLAN/PROFILE  
STA. 1+100 TO 1+260

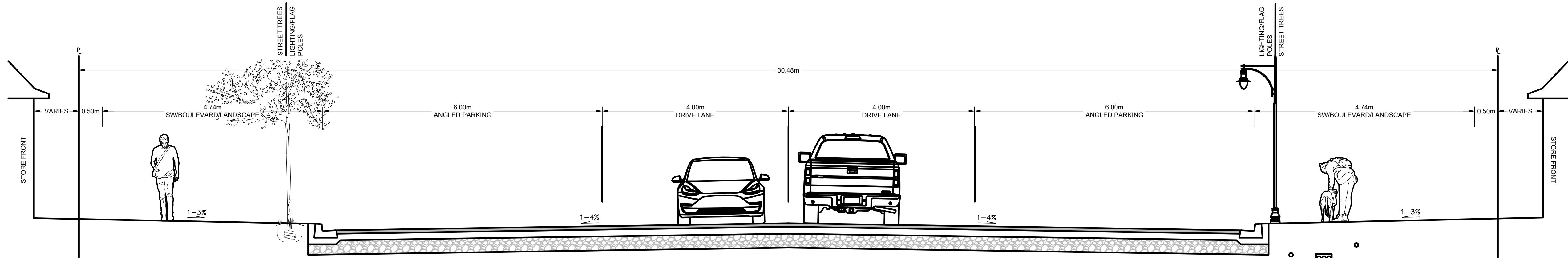
PROJECT No. 277-1

SHEET 9 OF 17

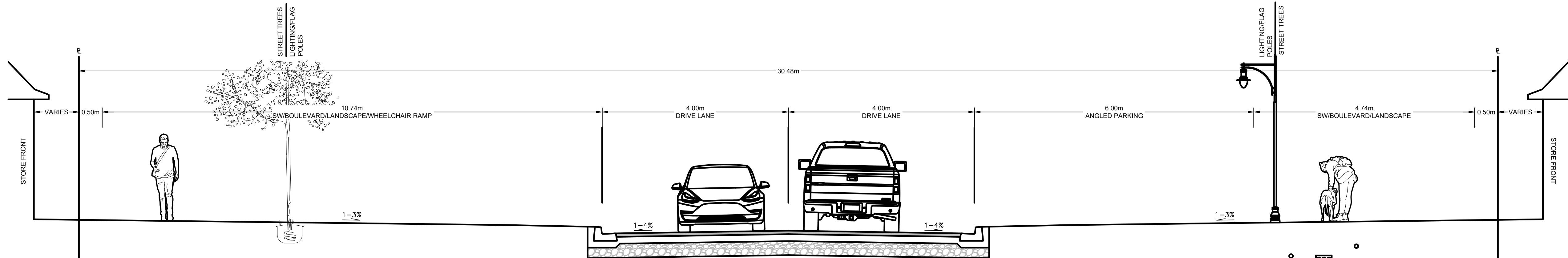
DWG. No. C202

REV. No. 2

FL07 August 26, 2026 COMPUTER-AIDED PROJECTS 277-1 - CIVIL ENGINEERING DRAWINGS 1 - HAROLD STREET RECONSTRUCTION - DESIGN - PFC DWG (REF-DWG-NAMES)



A - A  
HAROLD ROAD - 30.48m (100') R/W WITH 8.0m TRAVELED ROAD AND 6.0m ANGLED PARKING  
SCALE - 1:50



B - B  
HAROLD ROAD - 30.48m (100') R/W WITH 8.0m TRAVELED ROAD  
SCALE - 1:50

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1	2026/04/26	ISSUED FOR TENDER	ETD	BTL
C	2025/12/10	RE-ISSUED FOR TENDER REVIEW	ETD	BTL
0	2022/12/22	ISSUED FOR TENDER	PAH	BTL
NO.	DATE YEARMMDD	DESCRIPTION	BY	APPD

REVISIONS

DESIGN	DLP
DRAWN	PKM
DATE	2022/08/26
CHECKED	BTL

PERMIT No.: 1001279



**LAWSON**  
ENGINEERING LTD.  
A201 - 2110 11 AVENUE NE  
PO BOX 106 SALMON ARM, BC V1E 4N2  
P: (250) 832-3220

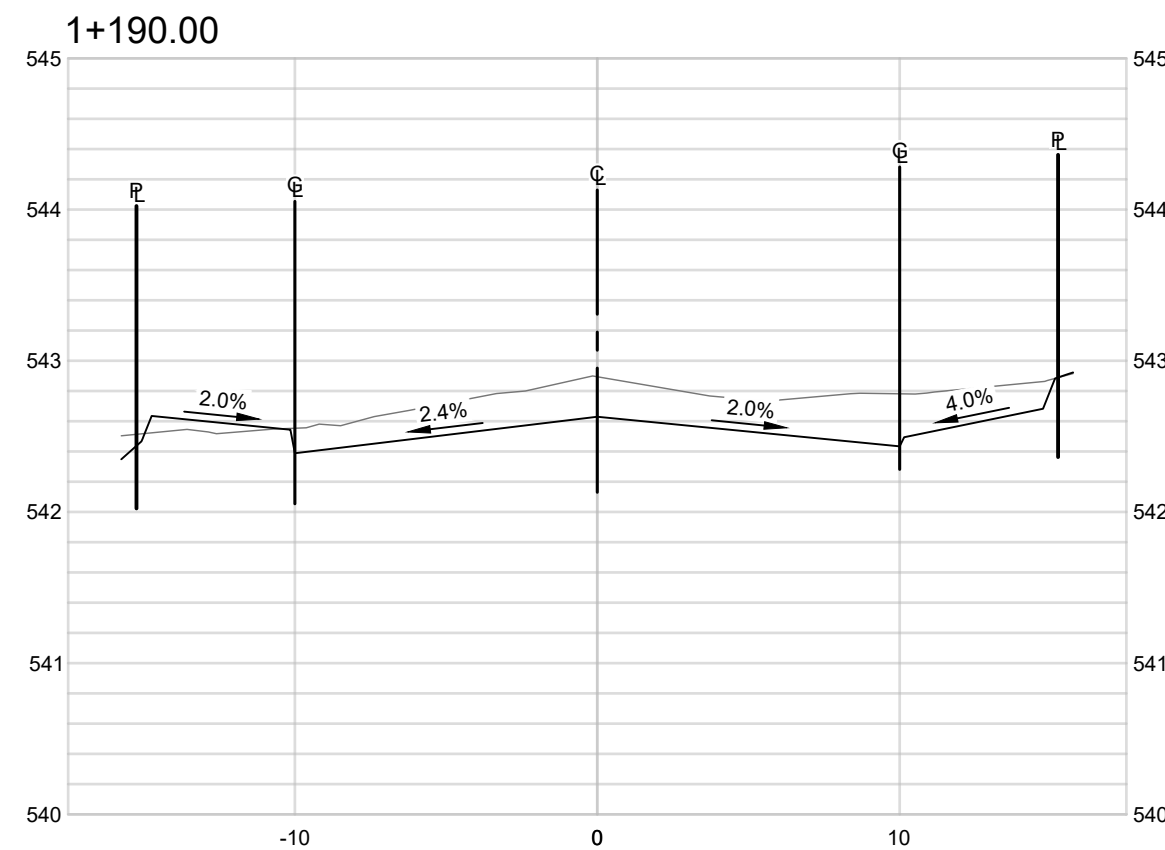
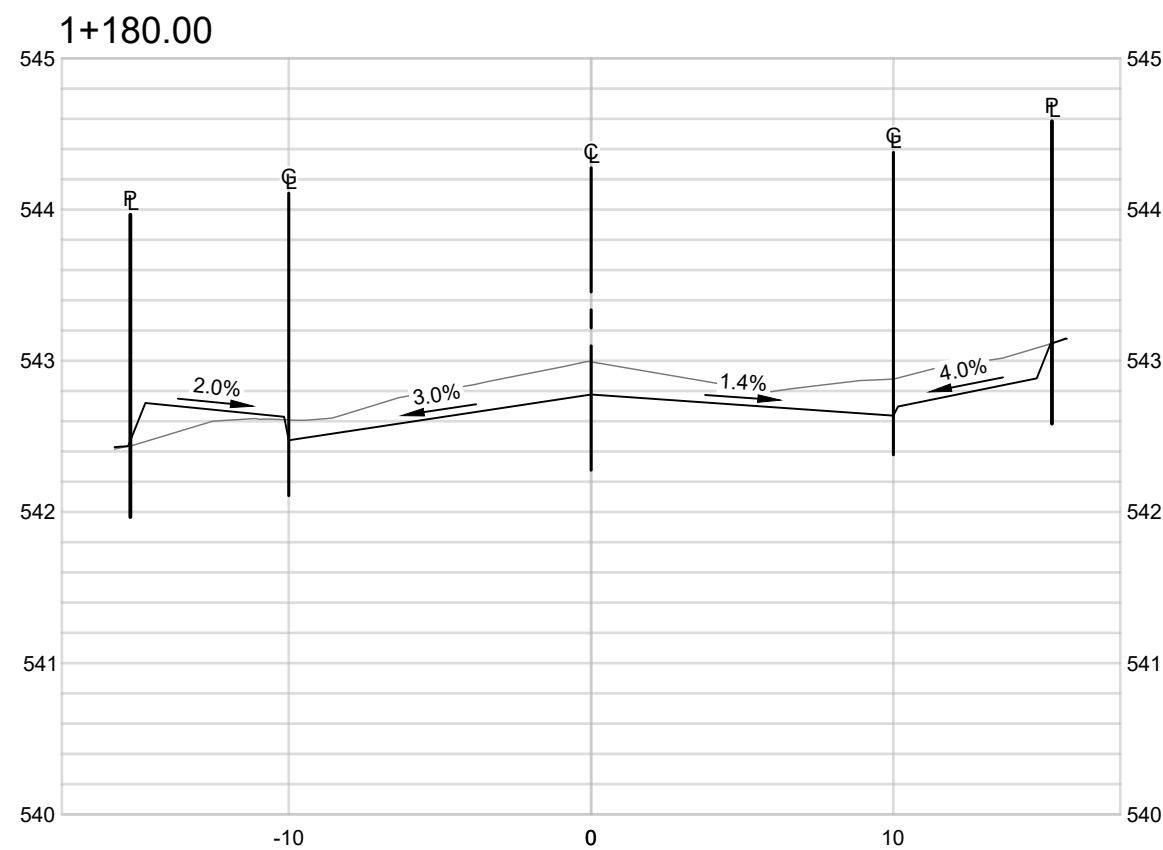
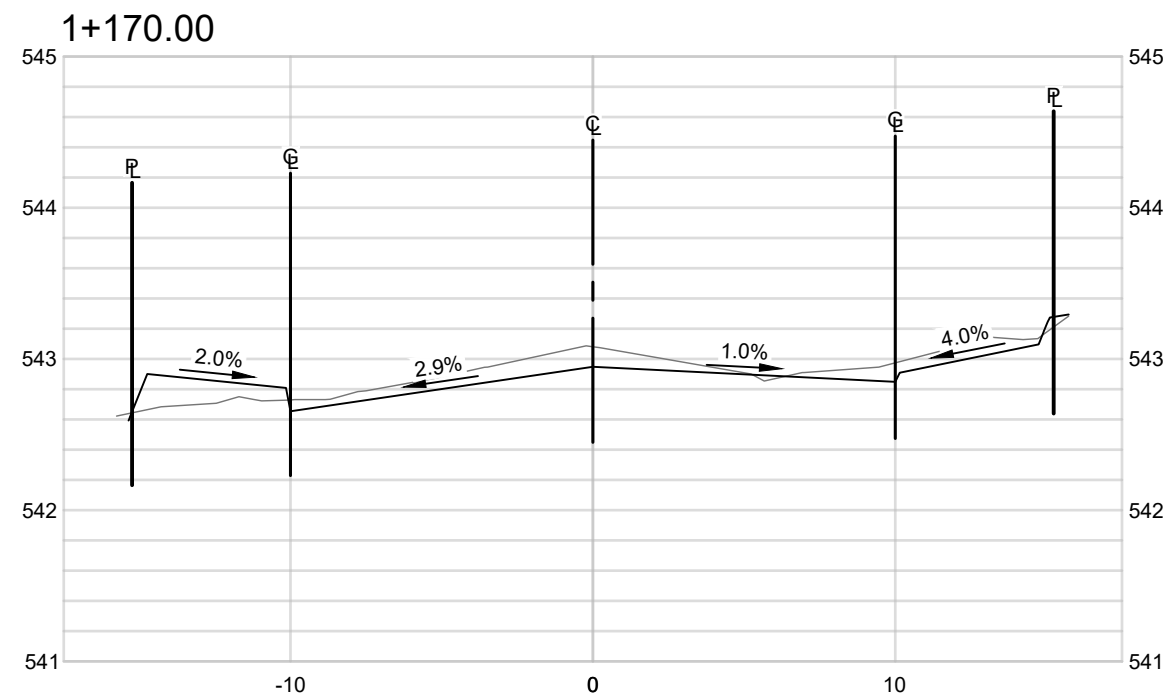
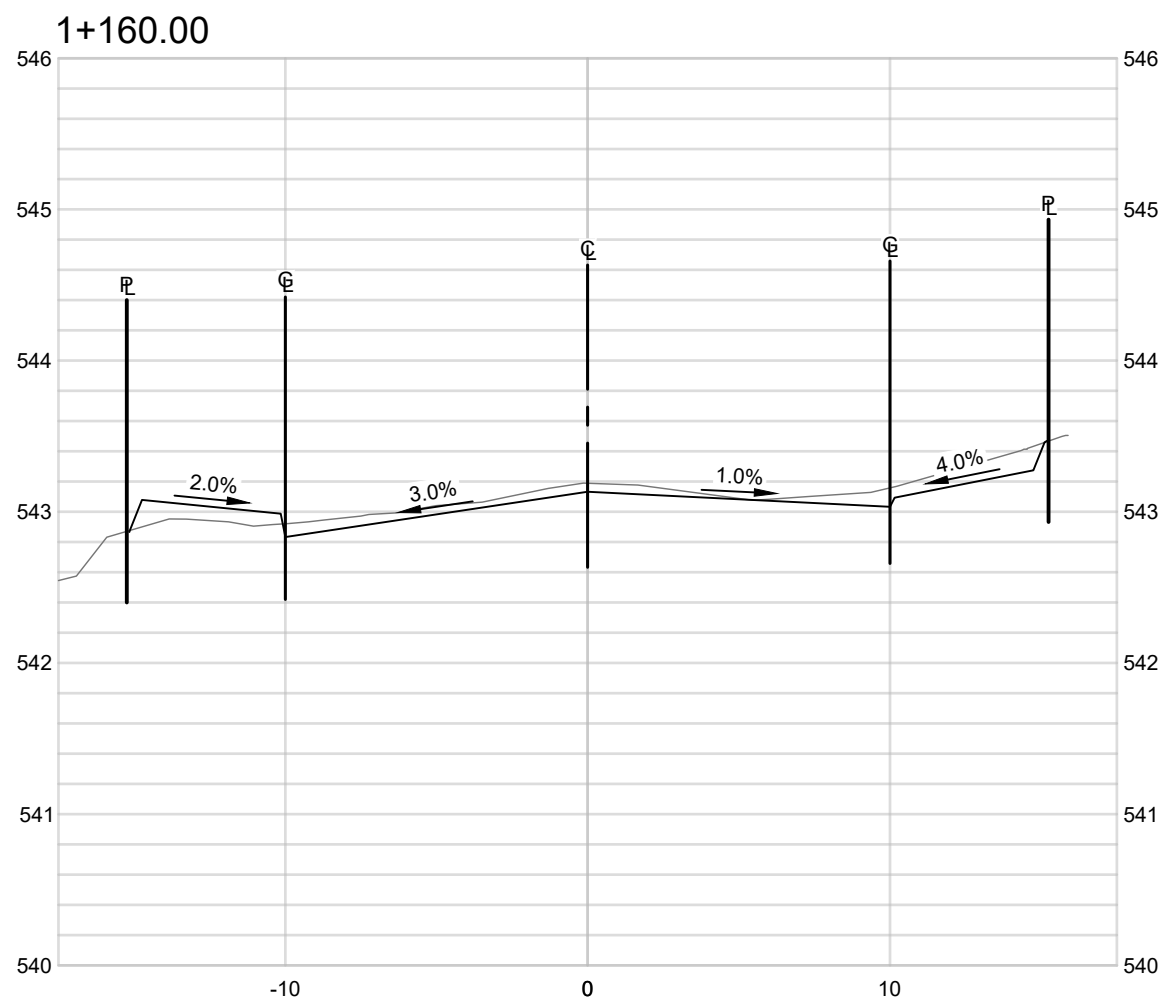
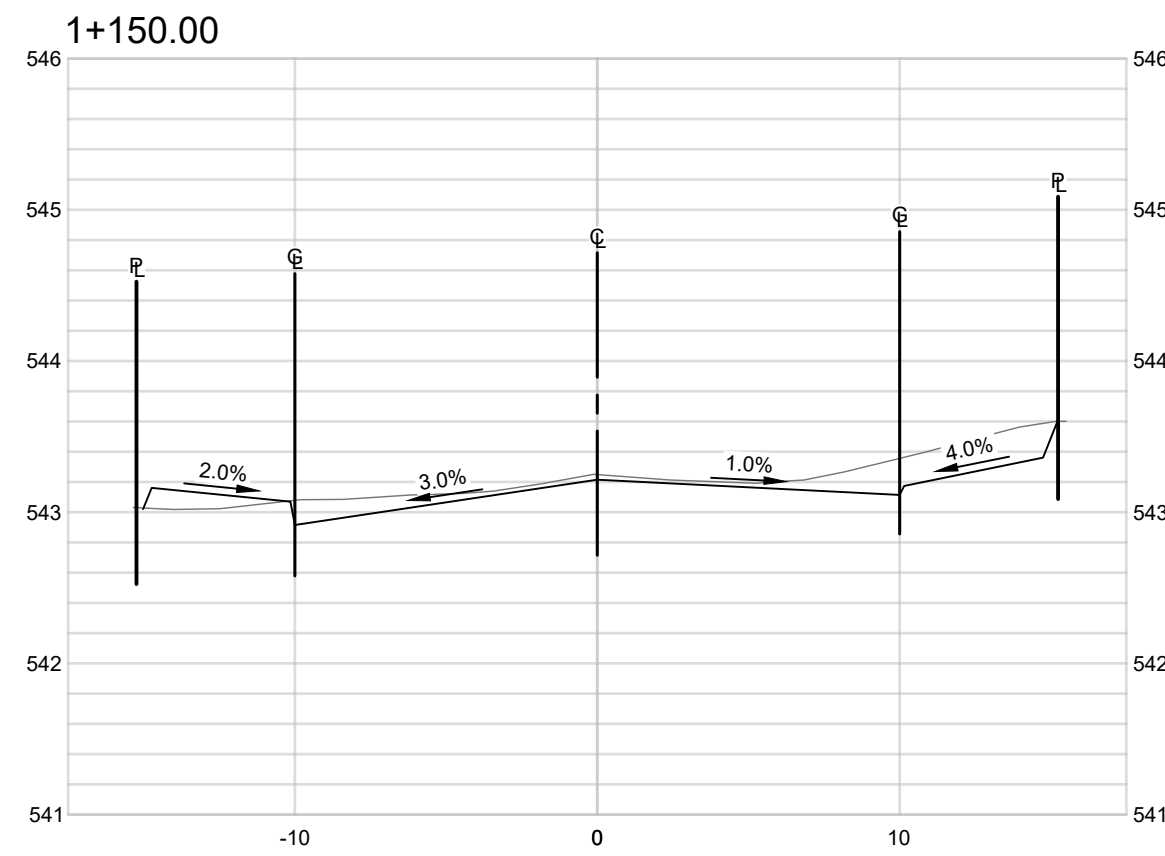
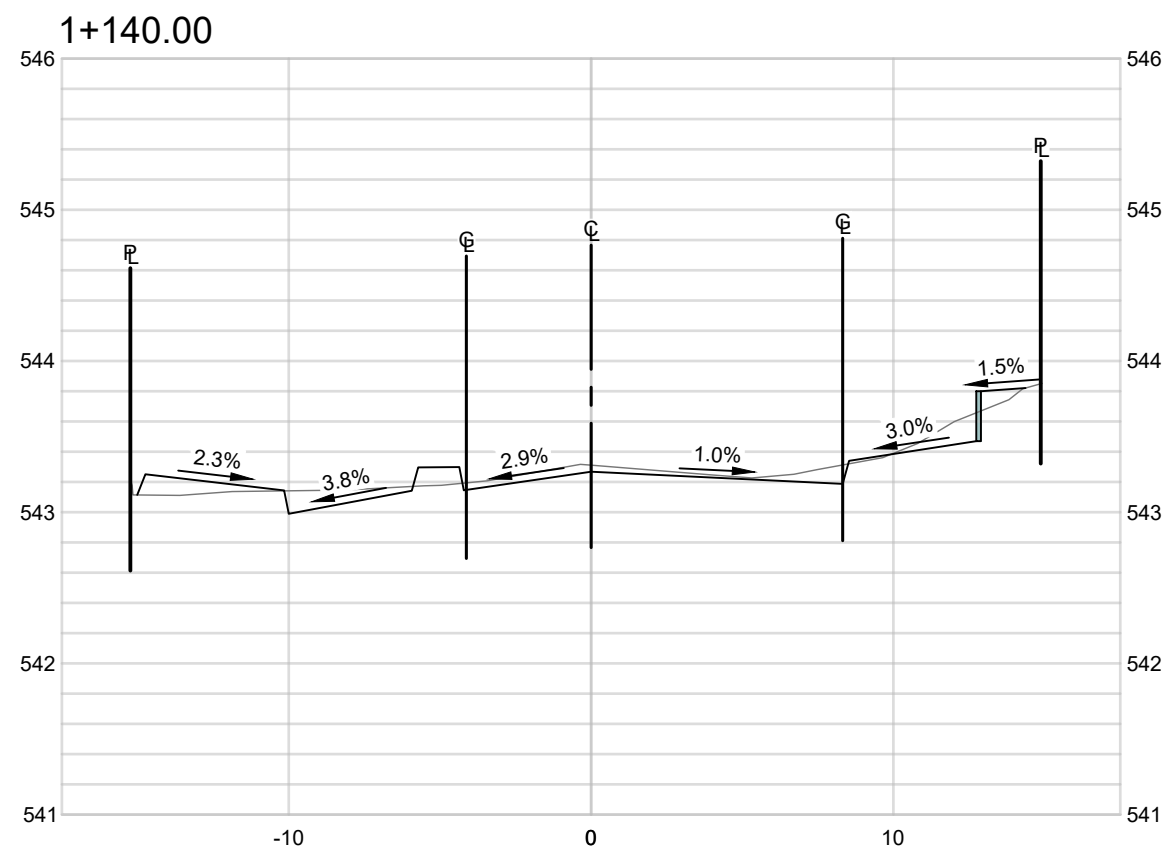
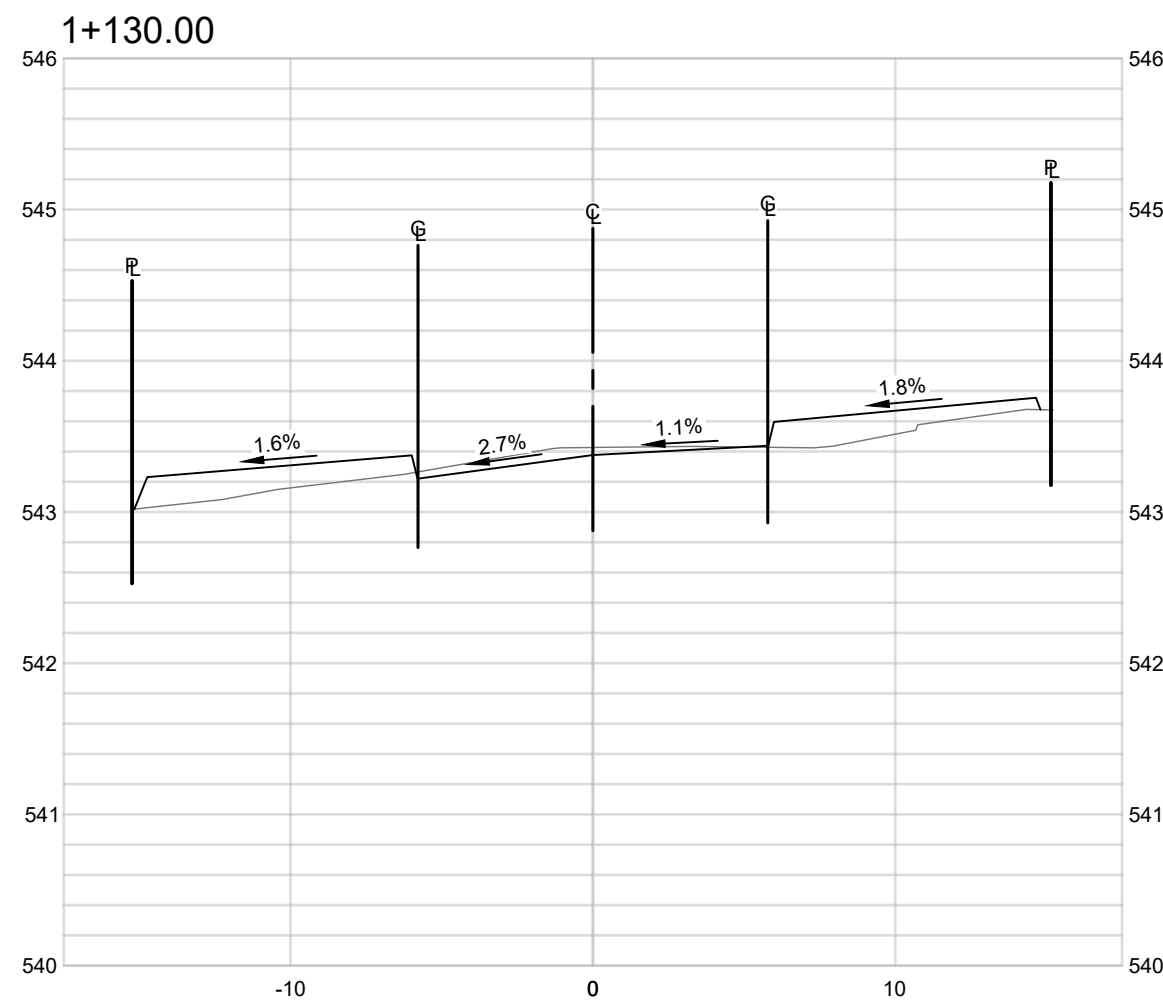
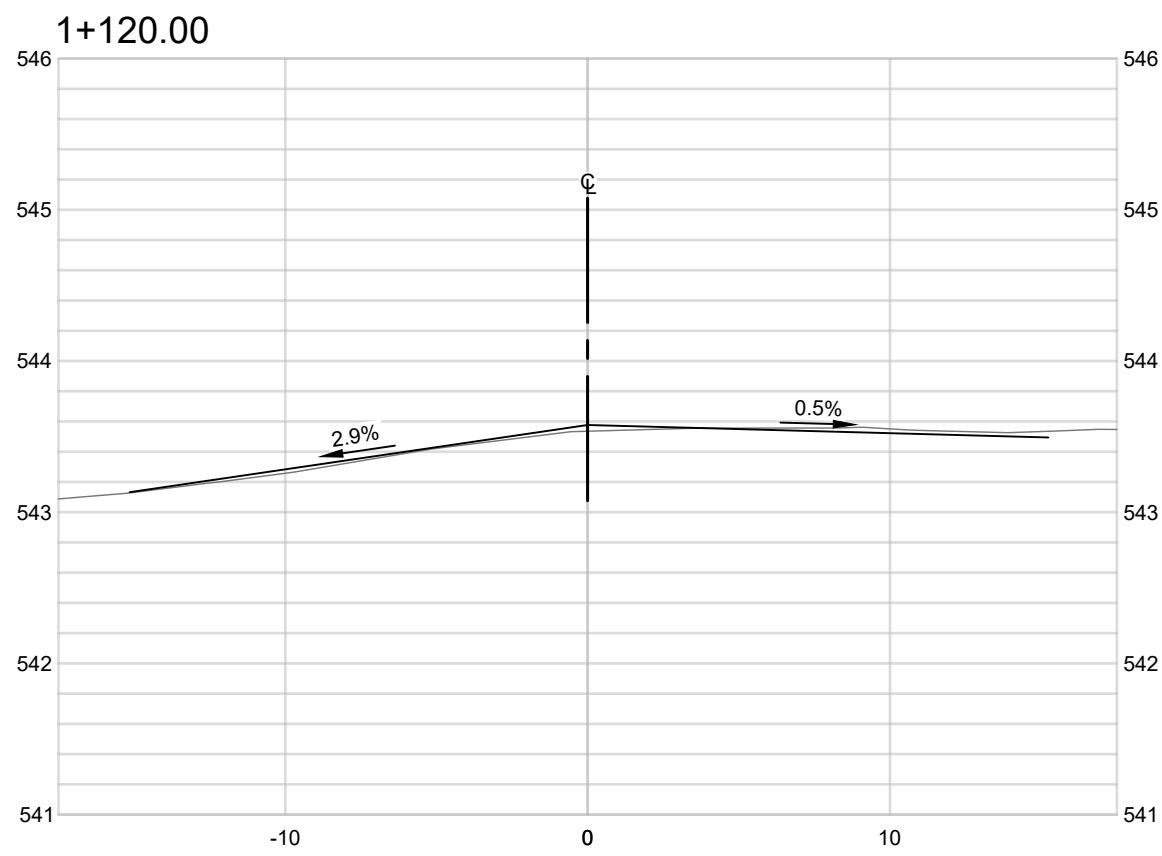


HAROLD STREET  
NORTH  
RECONSTRUCTION  
SLOCAN, BC

TYPICAL ROAD  
CROSS-SECTIONS

PROJECT No.	277-1
SHEET	10 OF 17
DWG. No.	C301
REV. No.	2

PLOT August 26, 2026 COMPUTER+2PROJECTB2771 - CIVIL ENGINEERING DRAWINGS1 - DESIGN - FE.DWG (REV.DWG NAMES)



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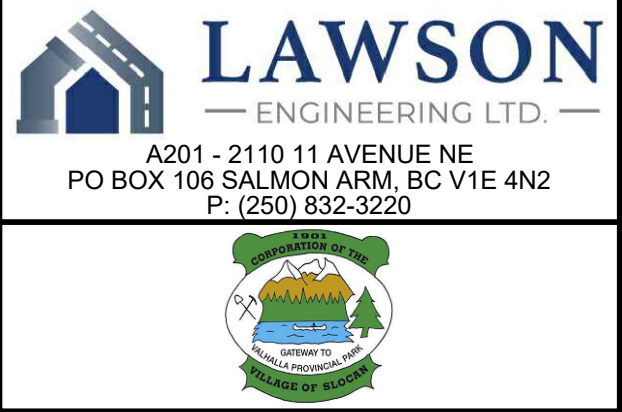
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1	2026/04/26	ISSUED FOR TENDER	ETD	BTL
C	2025/12/10	RE-ISSUED FOR TENDER REVIEW	ETD	BTL
0	2022/12/22	ISSUED FOR TENDER	PAH	BTL
NO.	DATE YEARMMDD	DESCRIPTION	BY	APPD

REVISIONS

	DESIGN	DLP
	DRAWN	PKM
	DATE	2022/08/26
	CHECKED	BTL

PERMIT No.: 1001279

SCALES: 0 5 1 1.5 2 Meters  
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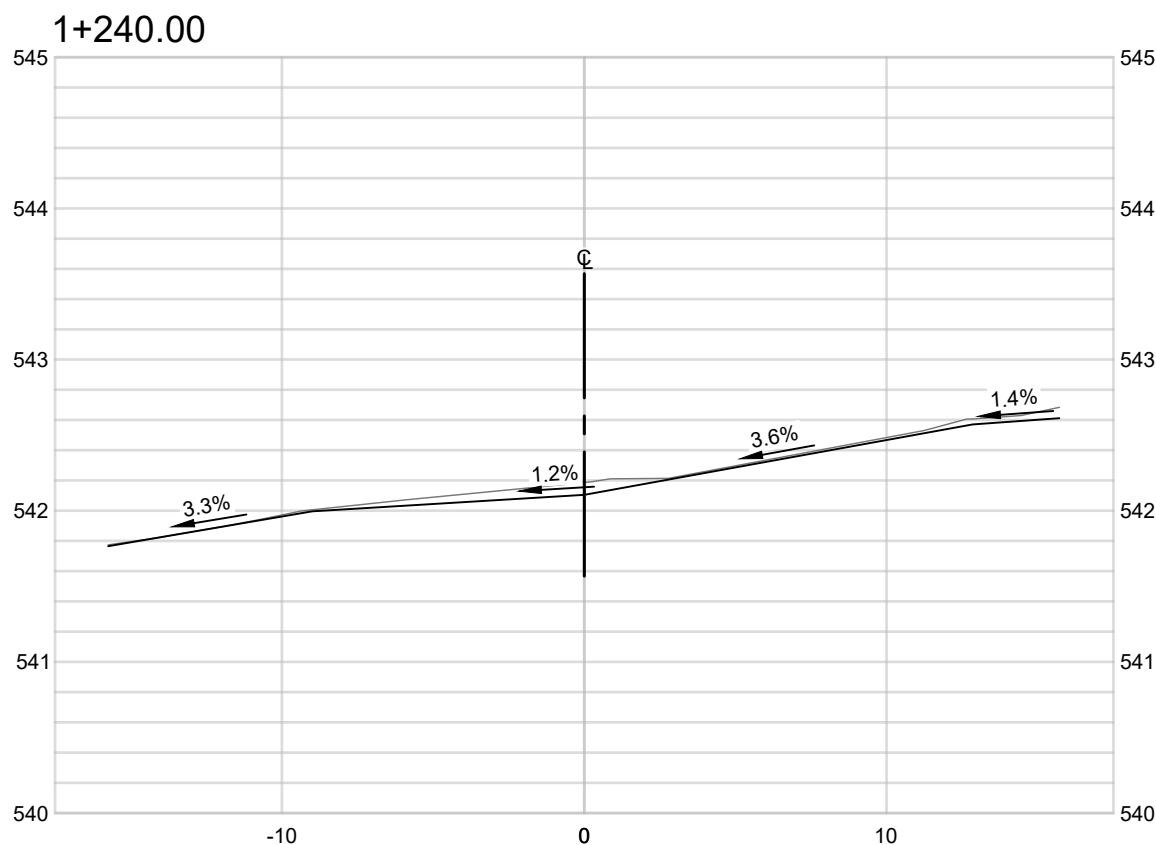
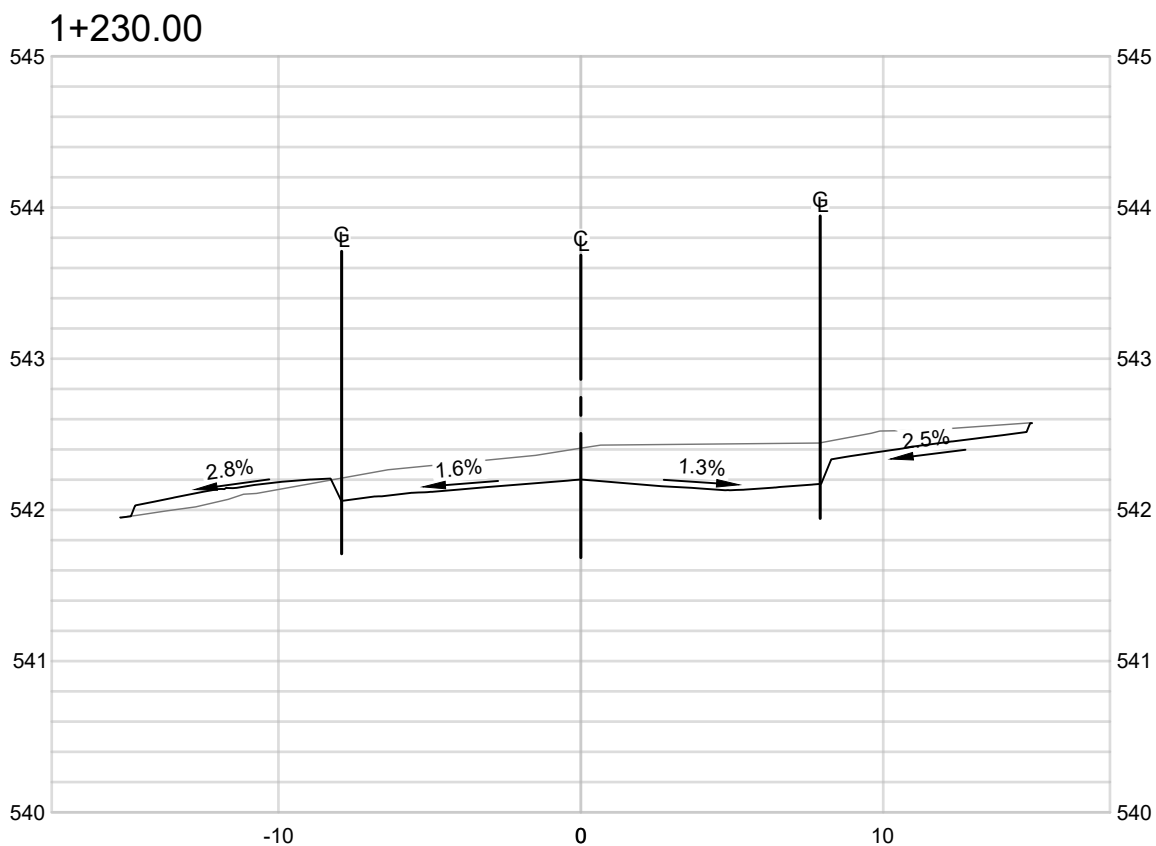
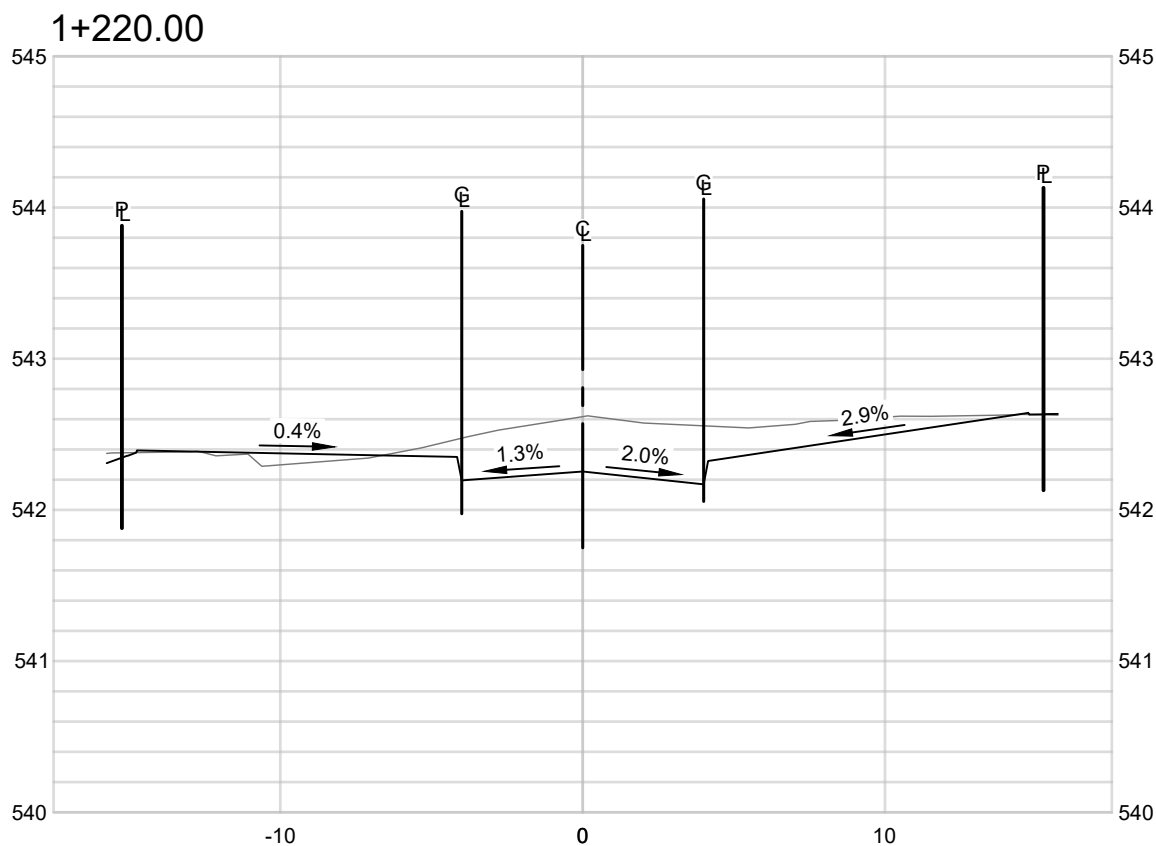
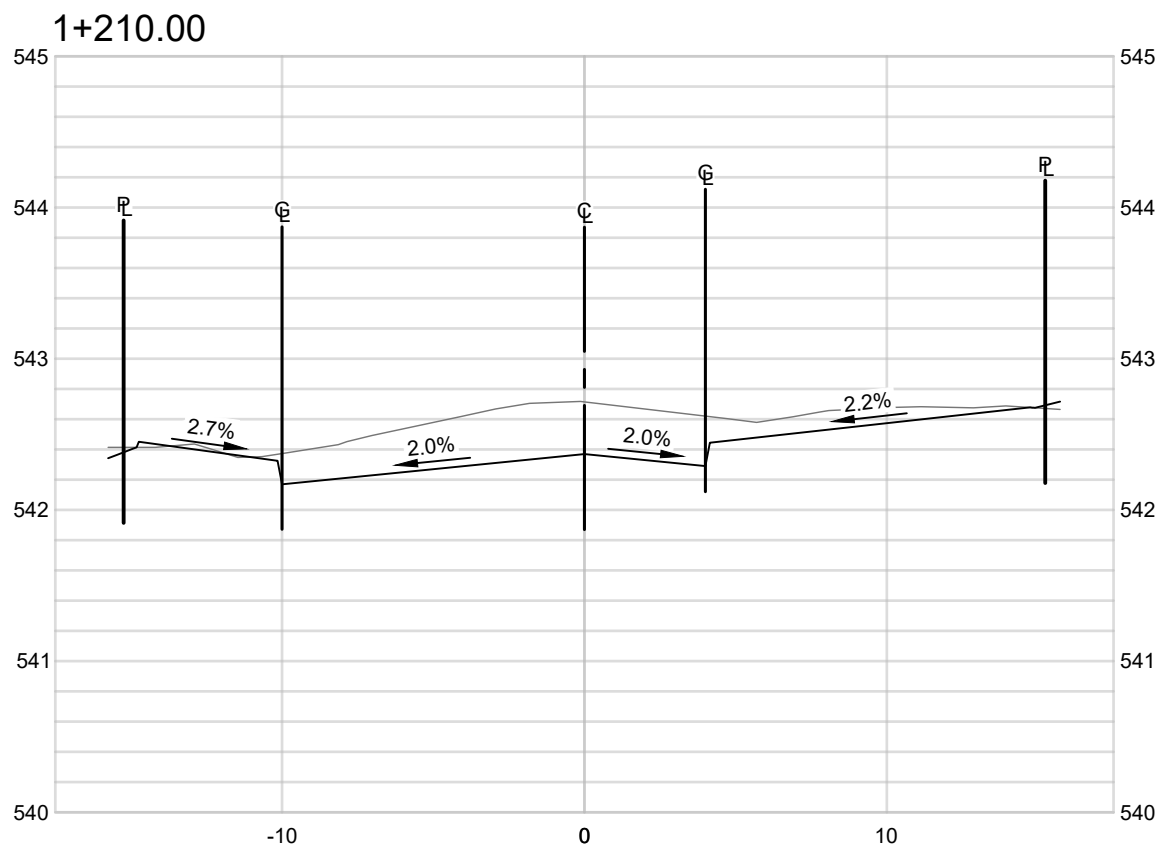
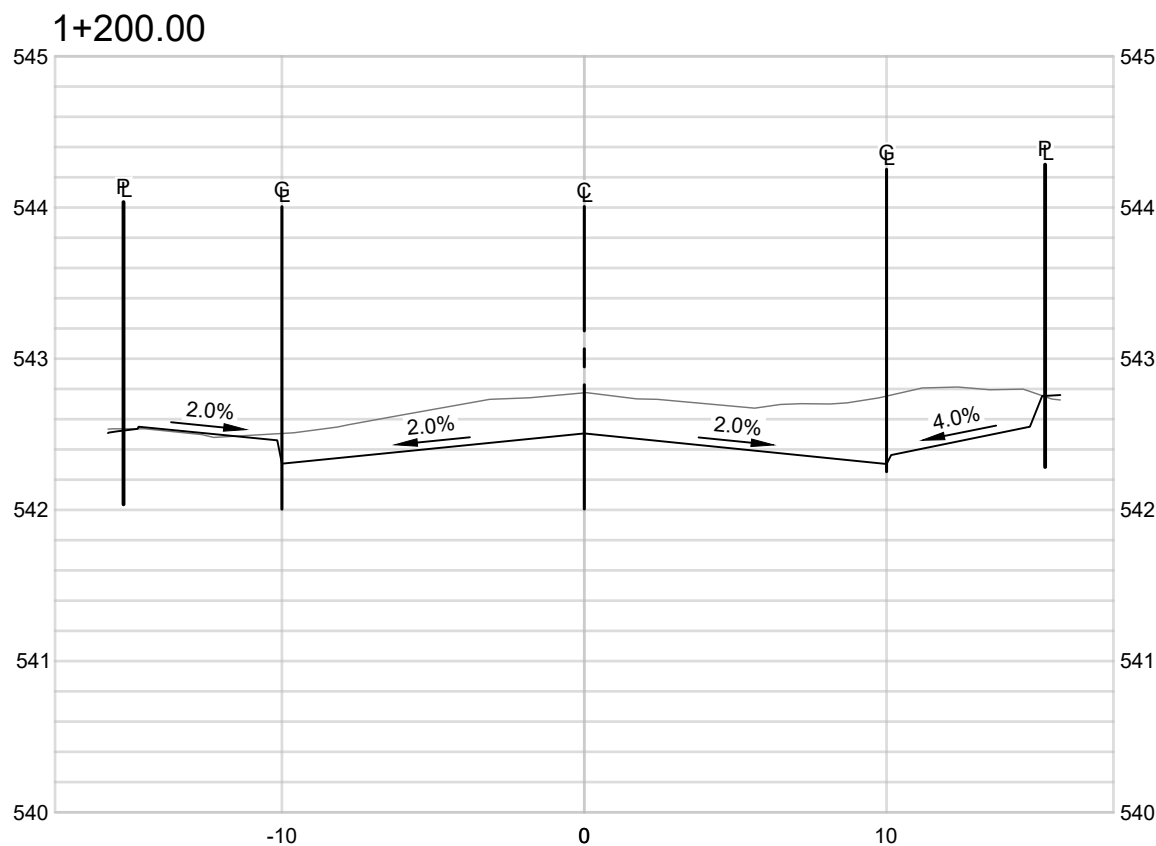


HAROLD STREET  
NORTH  
RECONSTRUCTION  
SLOCAN, BC

ROAD CROSS  
SECTIONS -  
HAROLD STREET 1

PROJECT No.	277-1
SHEET	11 OF 17
DWG. No.	C302
REV. No.	2

PLOT August 26, 2026 COMPUTER+2PROJECT82771 - CIVIL ENGINEERINGDRAWINGS1 - DESIGN277-1 HAROLD STREET RECONSTRUCTION - DESIGN - FE2.DWG (REF.DWG NAMES)



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2	2026/08/26	ISSUED FOR CONSTRUCTION	ETD	BTL
1	2026/04/26	ISSUED FOR TENDER	ETD	BTL
C	2025/12/10	RE-ISSUED FOR TENDER REVIEW	ETD	BTL
0	2022/12/22	ISSUED FOR TENDER	PAH	BTL
NO.	DATE YEARMMDD	DESCRIPTION	BY	APPD

REVISIONS

	DESIGN	DLP
	DRAWN	PKM
	DATE	2022/08/26
	CHECKED	BTL

PERMIT No.: 1001279

SCALES:	0 5 1 1.5 2 Meters
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HAROLD STREET  
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RECONSTRUCTION  
SLOCAN, BC

ROAD CROSS  
SECTIONS -  
HAROLD STREET 2

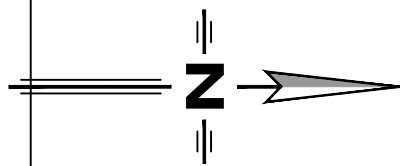
PROJECT No.	277-1
SHEET	12 OF 17
DWG. No.	C303
REV. No.	2

PLOT August 26, 2026 COMPUTER+2PROJECT82771 - CIVIL ENGINEERING DRAWINGS1 - DESIGN - REF.DWG (REF.DWG NAMES)



PROJECT No.		277-1	
SHEET	13	OF	17
DWG. No.		C501	REV. No. 2





CRITICAL TIE-IN DETAIL CT1  
SCALE 1:100

EV, No. **2**      **N**      **L**      **08/26**      **M**  
 2028 COMPUTER-1-PROJECTS(2771) - CIVIL ENGINEERING DRAWINGS - DESIGN - FC DWG (XREF-DWG-NAMES)  
 PLOT August 26, 2028



GENERAL NOTES:

1. ALL WORKS TO CONFORM TO THE VILLAGE OF SLOCAN BYLAWS AND THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD) AND STANDARD DETAIL DRAWINGS, UNLESS OTHERWISE SPECIFIED.
2. ALL MATERIALS SHALL CONFORM TO THE VILLAGE OF SLOCAN APPROVED PRODUCTS LIST.
3. SCHEDULE 40 AND SCHEDULE 80 PLASTIC PIPE SHALL NOT BE USED FOR ANY SITE APPLICATIONS IN THE SITE WORK.
4. ANY REVISIONS TO THESE DRAWINGS MUST BE APPROVED BY THE DESIGN ENGINEER, WHO SHALL REVIEW ANY CHANGES WITH THE VILLAGE OF SLOCAN.
5. CONTRACTOR MUST REQUEST A UTILITY LOCATE THROUGH BC ONE CALL BEFORE EXCAVATING WITH ANY POWER EQUIPMENT.
6. WORKSAFE BC IS TO BE NOTIFIED PRIOR TO THE START OF CONSTRUCTION AND THE CONTRACTOR SHALL BE REGISTERED WITH WORKSAFE BC.
7. CONTRACTOR TO EXPOSE ALL EXISTING UTILITIES AT ALL UTILITY CROSSINGS PRIOR TO CONSTRUCTION. CONTRACTOR IS TO VERIFY LOCATION AND INVERTS AND REPORT TO ENGINEER ANY CONFLICTS OR DISCREPANCIES.
8. UTILITY TRENCH TO CONFORM TO MMCD STANDARD DRAWING G4.
9. EXISTING UNDERGROUND UTILITIES MAY NEED TO BE LOWERED OR RAISED TO SUIT THE FINAL DESIGN GRADES IN ACCORDANCE WITH MINIMUM AND MAXIMUM COVER REQUIREMENTS FOR EACH UTILITY.
10. RESIDENTS AND BUSINESS OWNERS AFFECTED BY THE PROPOSED CONSTRUCTION ARE TO BE NOTIFIED BY THE CONTRACTOR IN WRITING 48 HOURS PRIOR TO THE START OF CONSTRUCTION AND PROVIDED WITH THE CONTRACTORS PHONE NUMBER AND SCHEDULE.
11. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE CAUSED TO EXISTING STREETS OR SERVICES BY CONSTRUCTION EQUIPMENT AND/OR TRUCKS HAULING MATERIALS TO THE SITE. THIS WILL INCLUDE DAILY CLEANING OR SWEEPING OF ALL EXISTING ROADS OF DIRT AND DEBRIS CAUSED BY CONSTRUCTION ACTIVITY.
12. TRAFFIC CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL COMPLY WITH SECTION 52 OF THE INDUSTRIAL HEALTH AND SAFETY REGULATIONS OF THE WORKER'S COMPENSATION BOARD OF B.C. THE DEVELOPER IS TO HAVE, ON SITE, A COPY OF THE CURRENT "B.C. TRAFFIC CONTROL MANUAL FOR WORK ON ROADWAYS" AS PUBLISHED BY THE MINISTRY OF TRANSPORTATION (MOT). VEHICULAR AND PEDESTRIAN ACCESS IS TO BE MAINTAINED ALONG EXISTING ROADS DURING CONSTRUCTION.
13. A TRAFFIC MANAGEMENT PLAN WITH LANE CLOSURES MUST BE APPROVED BY THE VILLAGE OF SLOCAN PRIOR TO CONSTRUCTION.
14. LEGAL SURVEY MONUMENTS ARE TO BE PROTECTED. SHOULD THEY REQUIRE RAISING OR RELOCATING, THE CONTRACTOR MUST NOTIFY THE INSPECTOR AT LEAST 72 HOURS IN ADVANCE OF SCHEDULING WORK AFFECTING THEM.
15. PIPE BEDDING TO BE MMCD TYPE 1 GRANULAR PIPE BEDDING COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
16. PIPE BACKFILL TO BE IMPORTED 75mm MINUS PIT RUN GRAVEL COMPACTED TO 95% MODIFIED PROCTOR DENSITY. WHEN NATIVE SITE GRANULAR BACKFILL IS PROPOSED FOR USE IN TRENCHES THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND PROVIDE SAMPLES TO THE GEOTECHNICAL MATERIALS TESTING AGENCY FOR APPROVAL, BEFORE PROCEEDING WITH THE RE-USE OF NATIVE BACKFILL MATERIALS. THE SITE MATERIAL MUST BE APPROVED FOR RE-USE BY THE GEOTECHNICAL ENGINEER.
17. WHEN INFILLING OF EXISTING DITCHES, ETC., IS REQUIRED OR PROPOSED, AND WHERE SERVICES ARE CONSTRUCTED IN FILL SECTIONS, THE FILL MATERIAL IS TO BE APPROVED GRANULAR MATERIAL PLACED IN LIFTS NOT EXCEEDING 300MM AND COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
18. FIGURED DIMENSIONS SHALL GOVERN OVER SCALED DIMENSIONS.
19. AFTER CONSTRUCTION, RESTORE WORK AREAS AND EXISTING FEATURES TO THEIR ORIGINAL CONDITION OR BETTER.
20. ADJUST ALL PROPOSED AND EXISTING APPURTENANCES TO MEET FINAL DESIGN GRADES.
21. DEWATERING FOR UTILITY INSTALLATIONS WILL BE COMPLETED AT THE CONTRACTORS EXPENSE.

ROADWORKS NOTES:

1. SEE PLAN AND PROFILE DRAWINGS FOR TYPICAL ROAD CROSS-SECTIONS. WHERE INDICATED, PROVIDE DRIVEWAY CROSSINGS IN CONFORMANCE WITH MMCD STANDARD DRAWING C7.
2. CHANGES OF GRADE ARE TO BE FORMED BY SMOOTH VERTICAL CURVES.
3. ALL LOOSE, ORGANIC, OTHERWISE DELETERIOUS MATERIALS OR SOFT SPOT(S) ARE TO BE EXCAVATED AND REMOVED FROM THE ROADWAY AND UTILITY TRENCHES IN THE ROADWAY.
4. SUB-BASE AND GRANULAR BASE MATERIALS SHALL BE COMPACTED TO 95% MODIFIED PROCTOR MAXIMUM DRY DENSITY AND WITHIN 2% OF OPTIMUM MOISTURE CONTENT.
5. THE ROAD BASE SHALL EXTEND A MINIMUM OF 0.3m BEYOND THE CURB & GUTTER.
6. CATCH BASIN RIM ELEVATIONS GIVEN ARE THE ELEVATION OF THE SURFACE INLET.
7. EXISTING VALVE BOXES, MANHOLES, ETC. WITHIN THE ROAD R.O.W ARE TO BE ADJUSTED TO SUIT THE PROPOSED FINISHED GRADE.

8. THE CONDITIONS FOR PLACING ASPHALT PAVEMENT AND CONCRETE SHALL BE IN ACCORDANCE WITH VILLAGE OF SLOCAN STANDARD CONSTRUCTION DOCUMENTS AND MMCD SPECIFICATIONS AND STANDARD DETAIL DRAWINGS APPLICABLE AT THE TIME OF CONSTRUCTION. WEATHER CONDITIONS MUST ALSO BE IN CONFORMANCE WITH MMCD SPECIFICATIONS. SHOULD DEVIANCIES BE ALLOWED FROM THESE SPECIFICATIONS, THE CONTRACTOR IS TO ASSUME ALL RESPONSIBILITY FOR THESE PRODUCTS.
9. TIE-INS TO EXISTING PAVEMENT SHALL BE MADE BY CUTTING BACK THE EXISTING PAVEMENT TO SOUND MATERIAL AS NECESSARY TO PROVIDE A NEAT VERTICAL FACE AND PROVIDE A KEY-WAY. PRIOR TO PLACING ASPHALTIC CONCRETE, EXPOSED PAVEMENT FACES AND OTHER ABUTTING STRUCTURES SHALL BE TACK COATED WITH ASPHALT EMULSION.
10. ALL EXISTING ASPHALT TO BE REMOVED MUST BE DISPOSED OF AT AN APPROVED SITE.
11. REPAIR ANY PAVEMENT DAMAGE OR DAMAGE TO PRIVATE PROPERTY. PAVEMENT RESTORATION AS PER MMCD STANDARD DRAWING G5. REFER TO ROADWORKS PLAN DRAWINGS FOR SPECIFIED PAVEMENT STRUCTURE.

WATERWORKS NOTES:

1. WATER MAIN AND SERVICE CONNECTION MATERIALS SHALL CONFORM TO THE VILLAGE OF SLOCAN APPROVED PRODUCTS LIST AND MMCD SECTION 33 11 01. 150 - 200mm DIAMETER PVC CLASS 150 TO AWWA C900. ALL FITTINGS AND VALVES TO BE DUCTILE IRON (DI) TYTON JOINT WITH CLOSED LUGS UNLESS OTHERWISE SPECIFIED. ALL CURB STOPS TO BE FITTED WITH MUELLER TELESOPING SERVICE BOXES OR APPROVED EQUIVALENT.
2. ALL WATERMAINS, PIPES, FITTINGS, AND APPURTENANCES TO MEET NSF 61 CERTIFICATION OR EQUIVALENT.
3. THE CONTRACTOR AND CONSULTANT ARE TO COMPLETE ALL TIE-INS AND DISCONNECTS FOR VILLAGE WATER, SEWER AND DRAINAGE SYSTEMS IN THE PRESENCE OF VILLAGE PERSONNEL. THE CONTRACTOR IS TO COORDINATE THIS WITH THE UTILITIES DEPARTMENT AT LEAST TWO (2) FULL WORKING DAYS PRIOR TO SCHEDULING. FOR WATER TIE-INS, PRIOR APPROVAL IS REQUIRED FROM THE VILLAGE DIRECTOR OF INFRASTRUCTURE SERVICES TO CONFIRM SUCCESSFUL PRESSURE TESTING, CHLORINATION, AND FLUSHING. PRIOR TO SCHEDULING, THE CONTRACTOR MUST OBTAIN A ROAD USAGE PERMIT.
4. CONTRACTOR TO PROVIDE A MINIMUM 1.8m COVER OVER ALL PROPOSED OFFSITE WATER MAINS.
5. MINIMUM GRADE OF WATER MAINS TO BE 0.10%
6. ALL DOMESTIC SERVICE CONNECTIONS TO BE A MINIMUM OF 25mm DIAMETER UNLESS OTHERWISE SPECIFIED. SERVICE CONNECTION TO CONFORM TO MMCD STANDARD DRAWING W2.
7. DURING CONSTRUCTION AND AT ANY TIME PRIOR TO ACCEPTANCE AND PRESSURIZING OF WATER MAINS BY THE VILLAGE, THE CONTRACTOR, ON BEHALF OF THE OWNER, SHALL INSTALL A PLASTIC BAG OVER EACH HYDRANT TO INDICATE THAT HYDRANT IS NOT IN USE.
7. WATER MAINS SHALL BE LAID A MINIMUM OF 3.0m HORIZONTALLY EDGE OF PIPE TO EDGE OF PIPE FROM ANY SANITARY OR STORM SEWER. WHERE THIS HORIZONTAL SEPARATION IS NOT POSSIBLE, AND/OR WHERE WATER MAINS AND SEWERS MUST CROSS OR SHARE THE SAME TRENCH, THE WATER MAIN SHOULD BE AT LEAST 0.45m ABOVE THE SEWER (MEASURED BETWEEN THE BOTTOM OF THE WATER MAIN AND THE TOP OF THE SEWER) AND SUFFICIENTLY TO ONE SIDE OF THE SEWER TO ALLOW FOR SEWER REPAIRS WITHOUT DISTURBING THE WATER MAIN. IF THE WATER MAIN MUST CROSS BELOW THE SEWER THE FOLLOWING PROVISIONS MUST BE MET:
  - VERTICAL SEPARATION OF AT LEAST 0.45m (FROM WATER MAIN CROWN TO SEWER INVERT). IF THIS CANNOT BE ACHIEVED DUE TO EXTREME SITE CONDITIONS, FOR VERTICAL SEPARATION BETWEEN 0.15m TO 0.45m, STRUCTURAL SUPPORT IS TO BE PROVIDED TO PROTECT AGAINST DEFLECTION AND SETTLING. CLEAR VERTICAL SEPARATION OF LESS THAN 0.15m IS NOT PERMITTED.
  - WATER MAIN AND SEWER JOINTS WITHIN 3.0m EITHER SIDE OF THE CROSSING SHALL BE RESTRAINED AND PROTECTED WITH AWWA APPROVED PIPELINE PROTECTION PRODUCT (IE. HEAT SHRINK WRAP, PETROLATUM TAPE).
  - THE LENGTH OF WATER MAIN IS TO BE CENTERED AT THE POINT OF CROSSING SO JOINTS ARE EQUAL DISTANCE FROM SEWER MAIN.
  - A CONTINUOUS HYDRAULIC BARRIER SHALL BE INSTALLED WITHIN THE TRENCH BETWEEN THE WATER AND SEWER LINES. BARRIER MAY CONSIST OF CLAY SPOIL OR GEOMEMBRANE AND MUST EXTEND A MINIMUM OF 0.3m BEYOND THE EDGES OF THE PIPE BEDDING ZONE.WHERE A WATER MAIN CROSSES A SANITARY OR STORM SEWER, THE JOINTS OF THE WATER MAIN, OVER A LENGTH EXTENDING 3M EITHER SIDE OF THE SANITARY/STORM SEWER ARE TO BE WRAPPED WITH HEAT SHRINK PLASTIC OR PACKED WITH COMPOUND AND WRAPPED WITH PETROLATUM TAPE IN ACCORDANCE WITH THE LAST VERSION OF THE AWWA STANDARDS C217, AND C214 OR C209. IF REQUIRED, CONTRACTOR TO INSTALL U-BEND AS PER MMCD STANDARD DRAWING W51.
8. A MINIMUM OF 1.5m HORIZONTAL CENTRE TO CENTRE AND 150mm CLEAR VERTICAL SEPARATION SHALL BE MAINTAINED BETWEEN WATER MAINS AND ELECTRICAL CONDUITS, GAS MAINS AND TELEPHONE CONDUITS EXCEPT WHERE NOTED.
9. CONTRACTOR SHALL CONDUCT PRESSURE TEST IN ACCORDANCE WITH MMCD AND AWWA SPECIFICATIONS.
10. CONTRACTOR SHALL FLUSH AND DISINFECT WATER MAINS IN ACCORDANCE WITH AWWA STANDARDS AND AS APPROVED BY THE VILLAGE OF SLOCAN.
11. CHLORINE SOLUTIONS SHALL BE NEUTRALIZED IN ACCORDANCE WITH MINISTRY OF THE ENVIRONMENT AND DEPARTMENT OF FISHERIES AND OCEAN PRIOR TO DISCHARGE TO ANY DRAINAGE COURSE.
12. WHERE PRACTICAL, SERVICE LINES AND METER BOXES SHALL BE INSTALLED TO FINISH GRADE, OUTSIDE OF DRIVEWAYS OR PAVED AREAS.

SANITARY AND STORM SEWER NOTES

1. SANITARY SEWER AND STORM SEWER MATERIALS SHALL CONFORM TO VILLAGE OF SLOCAN APPROVED PRODUCTS LIST AND MMCD PLATINUM SECTIONS 33 30 01 AND 33 40 01. SANITARY AND STORM SEWER MAINS UNDER 600mm DIAMETER TO BE MINIMUM PVC SDR35 TO ASTM D2412 AND ASTM D3034 (UNLESS OTHERWISE NOTED).
2. CONTRACTOR TO PROVIDE A MINIMUM 1.2m COVER OVER ALL PROPOSED OFFSITE SANITARY MAINS AND 1.2m COVER OVER ALL PROPOSED OFFSITE STORM MAINS. WHERE MINIMUM COVER CANNOT BE PROVIDED FOR OFFSITE MAINS.
3. CONTRACTOR IS TO EXPOSE AND CONFIRM LOCATIONS AND INVERTS OF ALL EXISTING SANITARY AND STORM SERVICE CONNECTIONS PRIOR TO CONSTRUCTION AND REPORT TO ENGINEER ANY CONFLICTS OR DISCREPANCIES. ALL EXISTING SERVICE CONNECTIONS TO BE REPAIRED IN REQUIRED AND TIED IN TO THE PROPOSED SANITARY OR STORM SEWER.
4. ALL SANITARY SEWER SERVICE CONNECTIONS ARE TO BE A MINIMUM 100mm DIAMETER PVC SDR28 TO ASTM D3034 FOR SINGLE-FAMILY RESIDENTIAL AND MINIMUM 150mm DIAMETER PVC SDR28 TO ASTM D3034 FOR MULTI-FAMILY RESIDENTIAL UNLESS OTHERWISE NOTED. COMMERCIAL AND INDUSTRIAL MINIMUM GRADE FOR SERVICE CONNECTIONS FROM THE MAIN TO THE PROPERTY LINE SHALL BE 2.0% UNLESS OTHERWISE NOTED. REFER TO MMCD DRAWINGS S7.
5. ALL EXISTING AND PROPOSED SERVICE CONNECTIONS ARE TO BE PROVIDED WITH AN INSPECTION CHAMBER. SANITARY SERVICE CONNECTIONS TO HAVE A 200mm DIAMETER INSPECTION CHAMBER AS PER MMCD DRAWING S9.
6. CONNECTIONS TO THE NEW SANITARY STORM MAINS UNDER 450mm DIAMETER SHALL BE MADE USING STANDARD WYE FITTINGS. CONNECTIONS TO NEW SANITARY AND STORM MAINS 450mm DIAMETER AND LARGER AND TO EXISTING MAINS SHALL BE MADE USING WYE SADDLES OR INSERTA-TEES WHERE NOTED. REFER TO MMCD STANDARD DRAWING S1 FOR MANHOLE REQUIREMENTS.
7. A MINIMUM OF 3m HORIZONTAL CLEAR SEPARATION SHALL BE MAINTAINED BETWEEN WATER MAINS AND ALL SANITARY AND STORM SEWERS/SERVICES EXCEPT WHERE NOTED.
8. WHERE A SANITARY SEWER OR STORM SEWER CROSSES A WATER MAIN, THE SEWER SHALL BE BELOW THE WATER MAIN WITH A MINIMUM CLEAR VERTICAL SEPARATION OF 0.45m AND THE JOINTS OF THE WATER MAIN, OVER A LENGTH EXTENDING 3.0m EITHER SIDE OF THE SEWER MAIN, ARE TO BE WRAPPED WITH HEAT SHRINK PLASTIC (CANUS) IN ACCORDANCE WITH THE LATEST VERSION OF THE AWWA STANDARDS C217, AND C214 OR C209.
9. ALL MANHOLES TO BE A MINIMUM OF 1050MM DIAMETER PER-CAST REINFORCED CONCRETE TO ASTM C478 OR AS NOTED ON DRAWINGS. REFER TO MMCD DRAWINGS S1.
10. ALL MANHOLE FRAMES WITHIN PAVED ROADWAYS TO BE TERMINAL CITY IRONWORKS LTD. C44A ADJUSTABLE MH FRAME WITH SR-SUPPORT RING. IF ROAD GRADE IS GREATER THAN 8% A TAPERED CONCRETE GRADE RING UNDER THE DI SUPPORT RING IS ALSO REQUIRED. MANHOLE FRAMES OUTSIDE PAVED ROADWAYS TO BE IN ACCORDANCE WITH THE VILLAGE OF SLOCAN APPROVED PRODUCT LIST.
11. SANITARY AND STORM PIPE LENGTHS SHOW IN PROFILE REPRESENT THE LENGTH FROM CENTER OF MANHOLE TO CENTER OF MANHOLE.
12. CONTRACTOR TO COMPLETE TIE-INS AND DISCONNECTIONS OF EXISTING SERVICE FOR VILLAGE WATER, SANITARY AND DRAINAGE IN THE PRESENCE OF THE CONSULTANT'S REPRESENTATIVE AND UNDER SUPERVISION OF VILLAGE OF SLOCAN PERSONNEL AFTER APPROPRIATE VILLAGE APPROVALS ARE OBTAINED.
13. SANITARY AND STORM SEWER TESTING IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL VIDEO INSPECT COMPLETED SANITARY AND STORM SEWERS UNDER 900mm IN DIAMETER FOLLOWING COMPLETION OF INSTALLATION. SHOULD VIDEO INDICATE APPARENT DEFICIENCIES, ADDITIONAL TESTING AND/OR REPLACEMENT WILL BE REQUIRED AT THE DIRECTION OF THE CONTRACT ADMINISTRATION AND AT THE COST OF THE CONTRACTOR.
14. STORM SEWERS ARE TO BE CONSTRUCTED WITH SEALED JOINTS UNLESS OTHERWISE SPECIFIED ON THE DESIGN DRAWINGS.
15. ALL CATCH BASINS TO BE DOBNEY FOUNDRY LTD. B-39B SIDE INLET WITH B-39A FRAME, B-39 GRATE AND ALUMINUM TRAPPING HOOD OR APPROVED EQUIVALENT. CATCH BASIN LEADS TO BE A MINIMUM 200 DIAMETER PVC DR35 * 2.0% MINIMUM SLOPE UNLESS OTHERWISE NOTED
16. ALL LAWN BASINS TO BE 600mm DIAMETER WITH CLOSED BOTTOM AND ALUMINUM TRAPPING HOOD AND SHALL CONFORM TO MMCD DWG S12 (TYPE 2) UNLESS OTHERWISE NOTED. LAWN BASIN LEADS TO BE A MINIMUM 150MM DIAMETER PVC DR35 * 1.0% MINIMUM SLOPE UNLESS OTHERWISE NOTED.

PAVEMENT MARKING AND SIGNAGE NOTES:

1. ALL PAVEMENT MARKINGS AND SIGNAGE TO BE MINISTRY OF TRANSPORTATION STANDARDS (MANUAL OF STANDARD TRAFFIC SIGNS & PAVEMENT MARKINGS).

EXISTING UTILITIES

1. THE LOCATION OF EXISTING SERVICES IS NOT GUARANTEED TO BE ACCURATE. THE INFORMATION HAS BEEN COMPILED FROM THE VILLAGE AS-CONSTRUCTED RECORDS AND FROM TOPOGRAPHIC SURVEY. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL INVESTIGATE THE WORK AREA, TO CONFIRM THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES. NOTIFY LAWSON ENGINEERING LTD. IMMEDIATELY IF THERE ARE ANY DISCREPANCIES.
2. NOTIFY TELUS, BC HYDRO, FORTIS BC, CITY WATER & SEWER AND CABLE 72 HOURS PRIOR TO CONSTRUCTION FOR LOCATION, IF APPLICABLE.
3. ALL DRAWING DISCREPANCIES TO BE REPORTED TO THE ENGINEER.
4. CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES PRIOR TO THE START OF EXCAVATION.

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NO.	DATE YEAR/MM/DD	DESCRIPTION	BY	APPD

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	DATE	2022/08/26
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BRITISH COLUMBIA  
ENGINEERING  
2026-08-27  
SEAL

HAROLD STREET  
NORTH  
RECONSTRUCTION  
SLOCAN, BC

GENERAL  
DRAWING NOTES

PROJECT No.	277-1	
SHEET	17	OF 17
DWG. No.	C801	REV. No. 2

PLOT August 26, 2026 COMPUTER-A2-PROJECTB2771 - CIVIL ENGINEERING DRAWINGS - DESIGN - FCF.DWG (REF-DWG-NAMES)