



ADDENDUM NUMBER 3

R17-28 Chemoy-Dogwood Watermain Install & Replacement

January 4, 2018

This Addendum shall be read in conjunction with and considered as an integral part of the Request for Proposals. Respondents should acknowledge the addendum on Appendix A the Submission Form. The Addendum is as follows:

Questions & Answers

Q1. Please provide drawing for the Optional Item "Pour in Place Headwall". The note on the drawing states "sand cement headwall" does this indicate that it is a sand bag headwall and not CIP? Please clarify this.

A1. Sand cement is the requirement in the tender – CIP is optional depending on price.

Q2. Please provide updated schedule of quantities relating to the anticipated area of asphalt restoration now required due to the alignment change.

A2. 380sq.m.

Q3. Please confirm if trench dams are required. If yes, please provide details of where these are to drain to.

A3. Not required.

Q4. How is 50mm asphalt restoration to the road surface on Chemoy Road to be paid for?

A4. Sq.m.

Q5. To reduce the cost of the services to #3304 and #3308 Chemoy Road, will the CVRD allow for pricing to include bringing the new service line to the front of the building only with the assumption that a plumber can reroute the water line internally bringing it to the front.

A5. The alignment of the water service for 3304 Chemoy Road has moved to the opposite side of the property. The revised drawings shows the new alignment of the water service to the left of the driveway. All work is to be completed outside of the homes.

Q6. Will the CVRD entertain a Provisional Sum to cover the cost of landscape removals and restorations required for #3304 and #3308 Chemoy Road?

A6. No.

Q7. What is the minimum bury required for a water service past property line (onto private property)?

A7. 600mm.

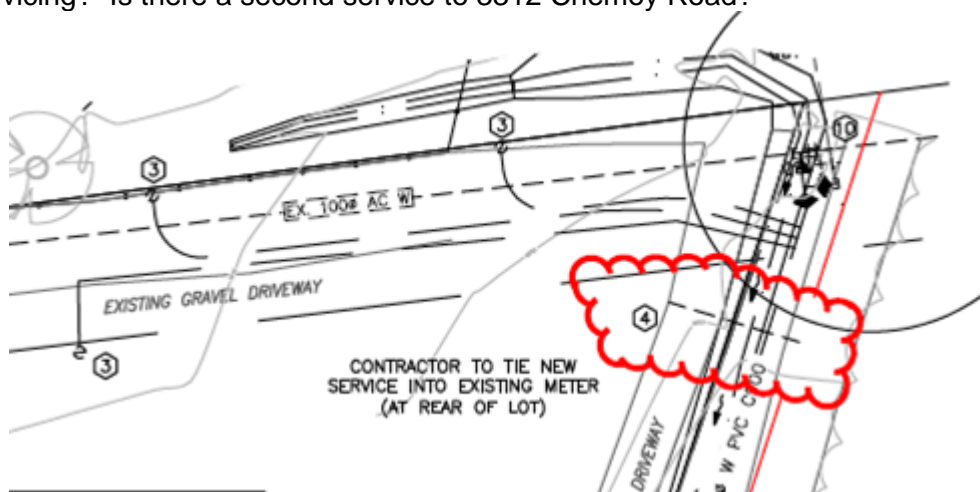
Q8. Please confirm all bacteria testing will be done by CVRD.

A8. Contractor to supply all equipment and perform all duties required to complete a successful bacteria test to the point of taking the sample.

Q9. Please provide minutes of site meeting.

A9. Minutes attached.

Q10. Drawing 1297-C-01 shows a service as highlighted below. Please clarify what this is servicing? Is there a second service to 3312 Chemoy Road?



A10. Delete – see amended drawing

Q11. I count 17ea x 19mm services, not including the services separated out as individual line items. The Current total for payment is 14. Please confirm quantity.

A11. 15 is the correct number. The remaining services are separated as individual line items in the Schedule of Prices table.

Q12. What restoration is required for the re-aligned ditchline?

A12. As per the detail on the drawing.

Q13. Please specify seed to be used for boulevard restoration

A13. As per MMCD specifications section 32 92 20.

Q14. The existing watermain on Chemoy Road is shown as 50mm Galvanized Pipe, however at the tie-in location (Detail 1 on drawing 1297-C-01) it is shown as both 50mm AC and 100mm AC. Please confirm size of pipe and material.

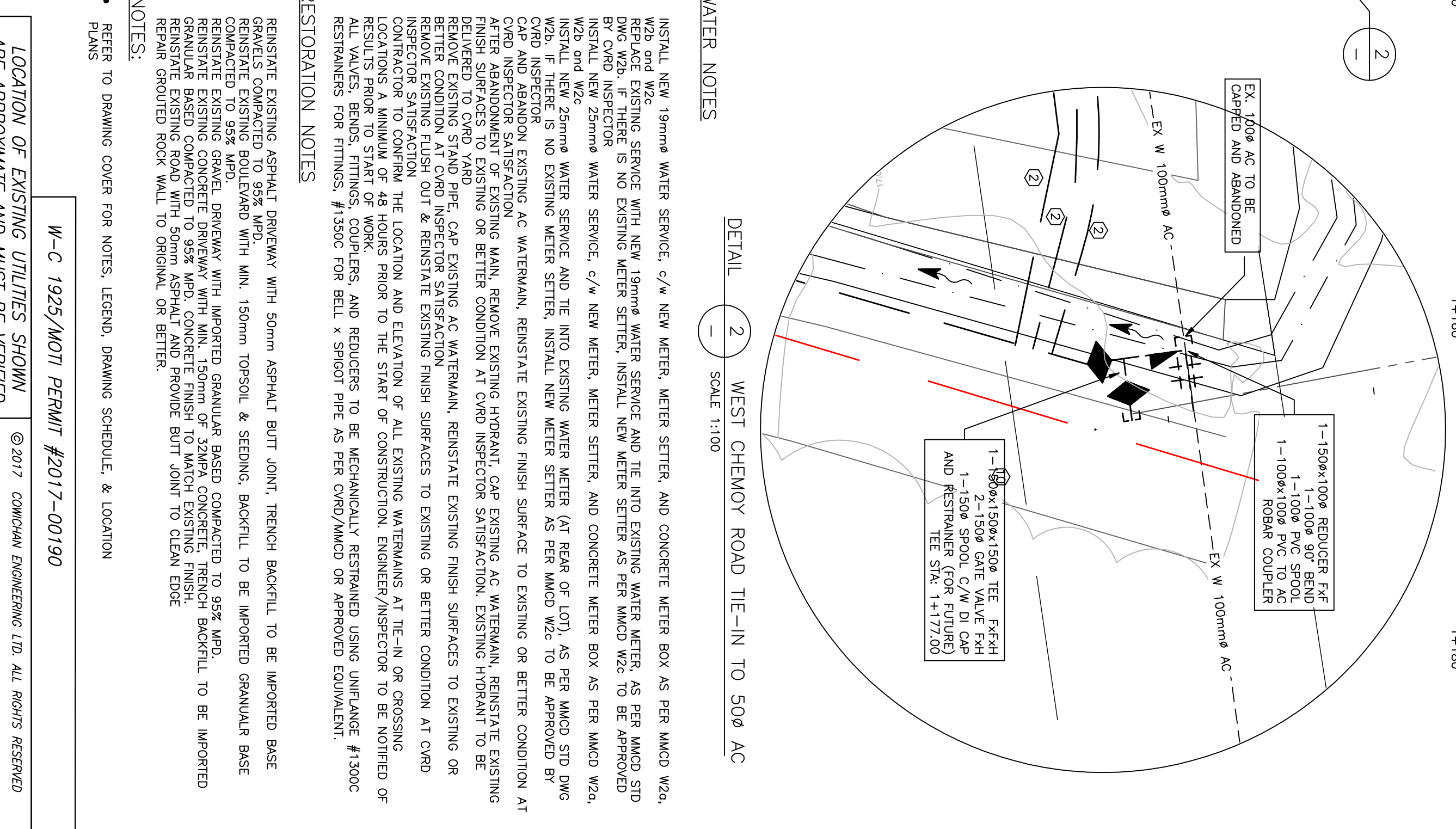
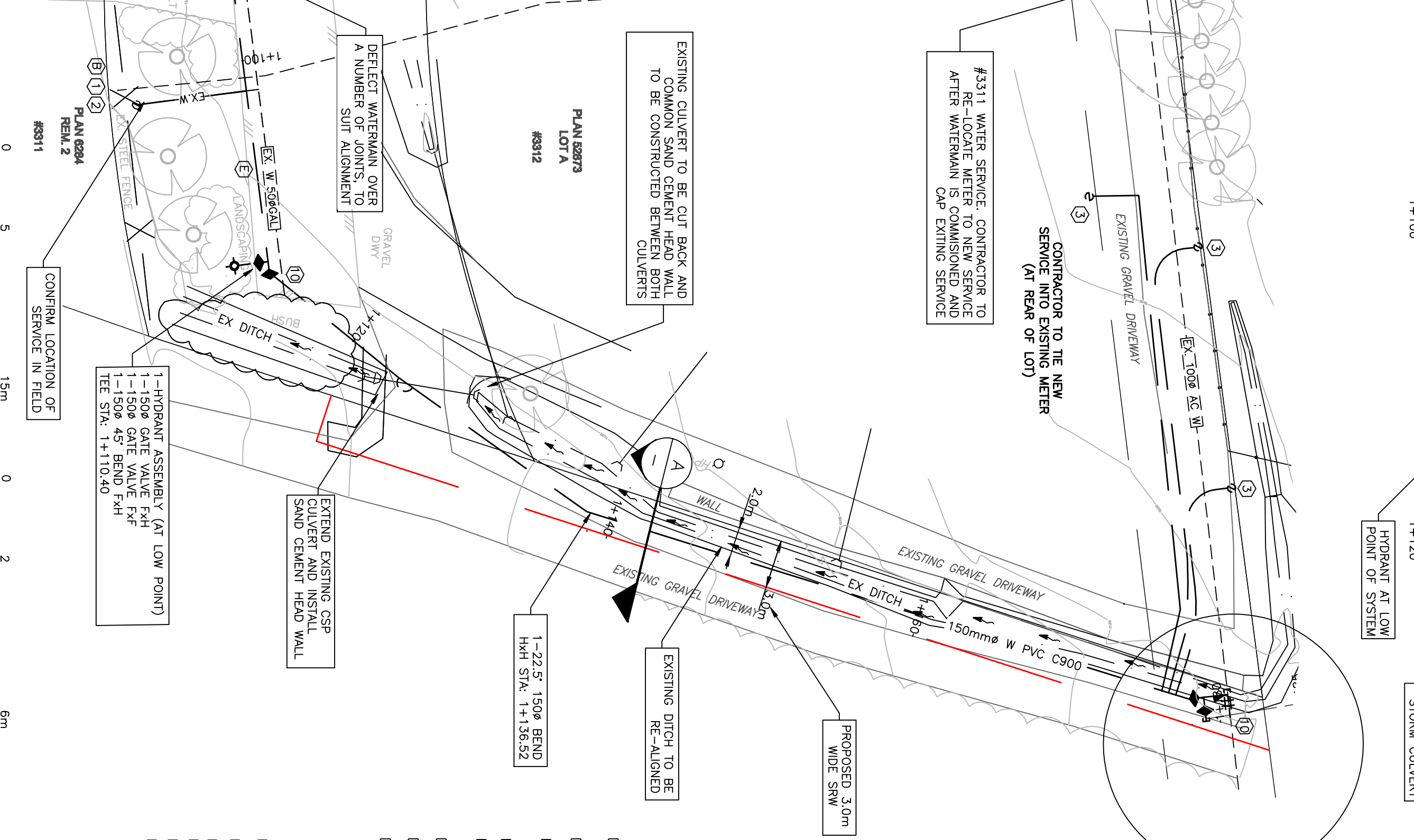
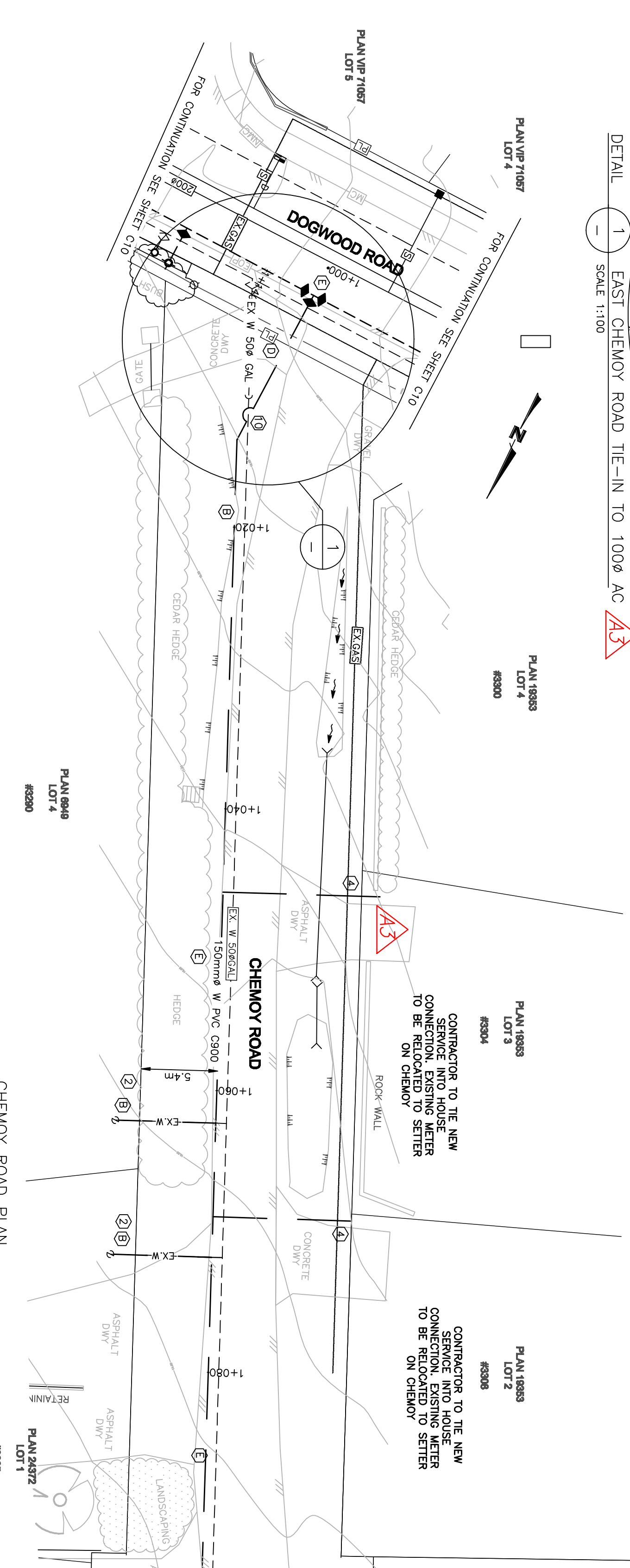
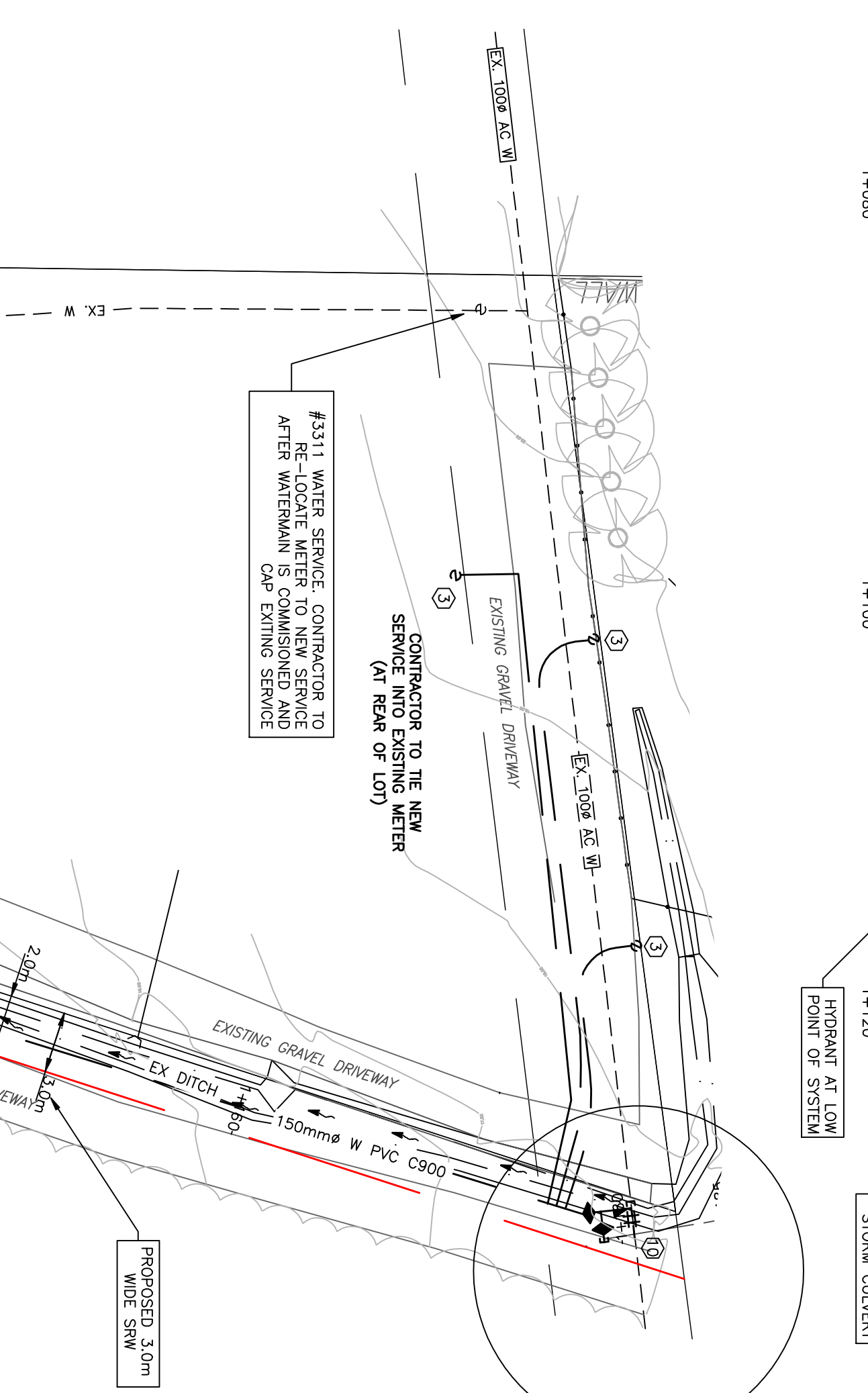
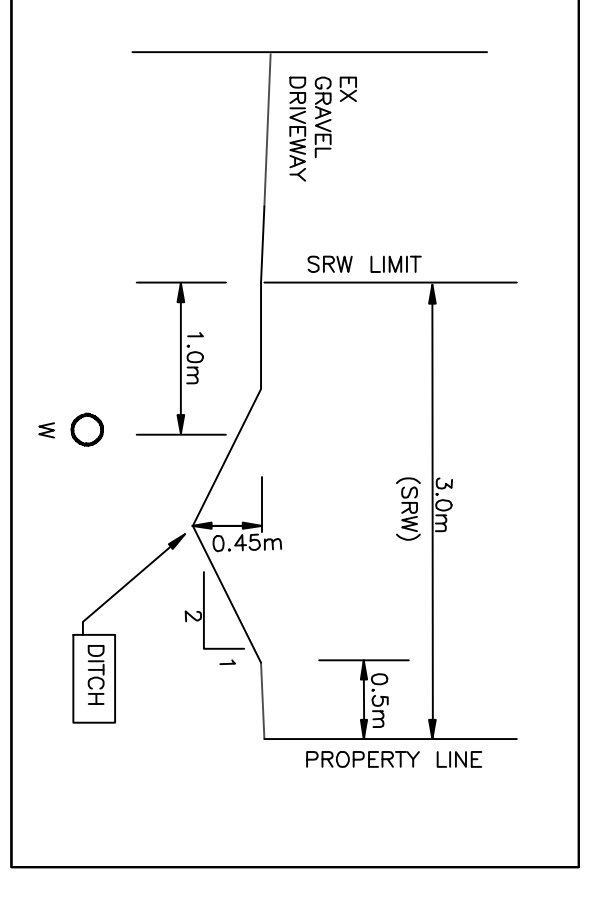
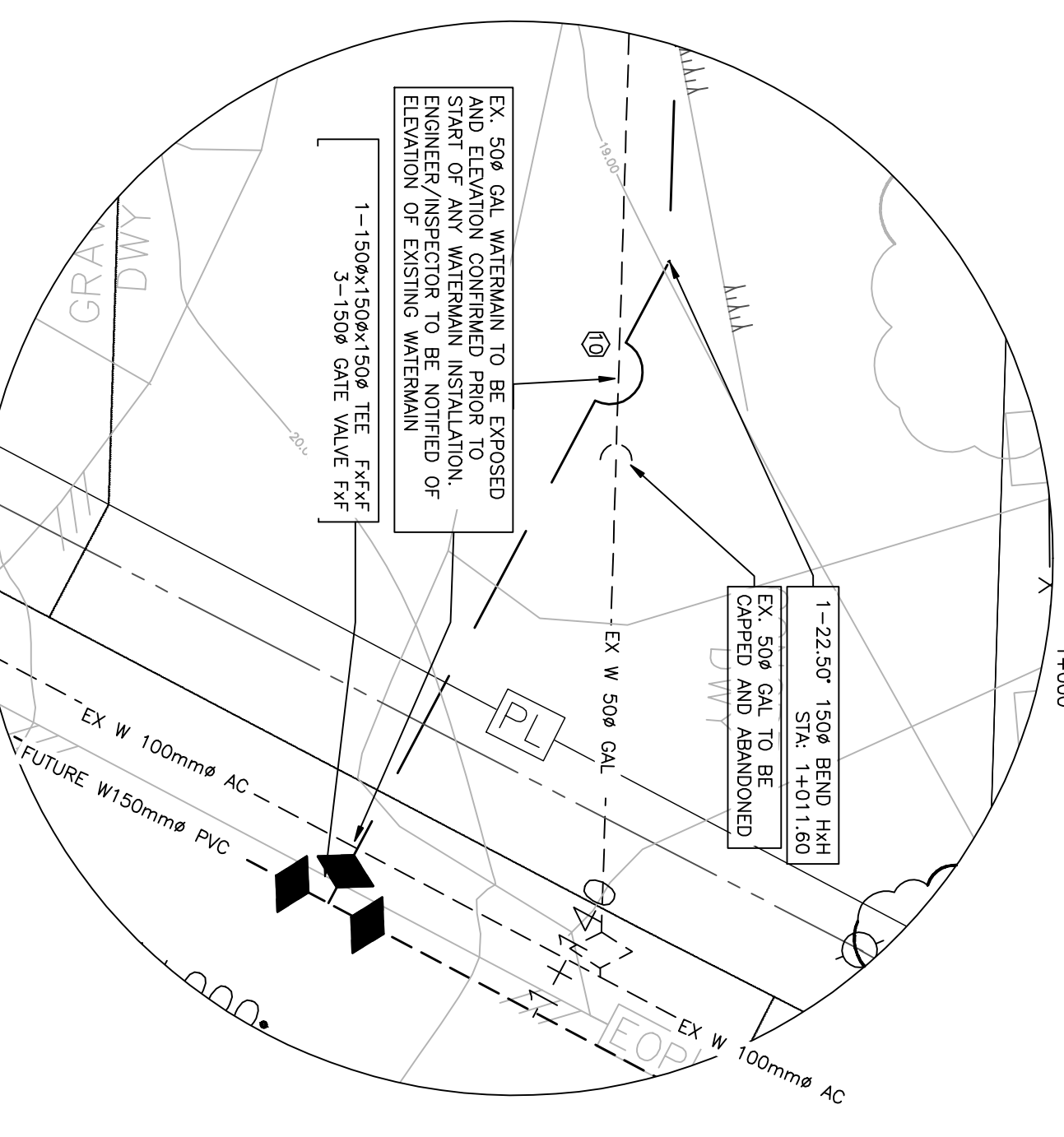
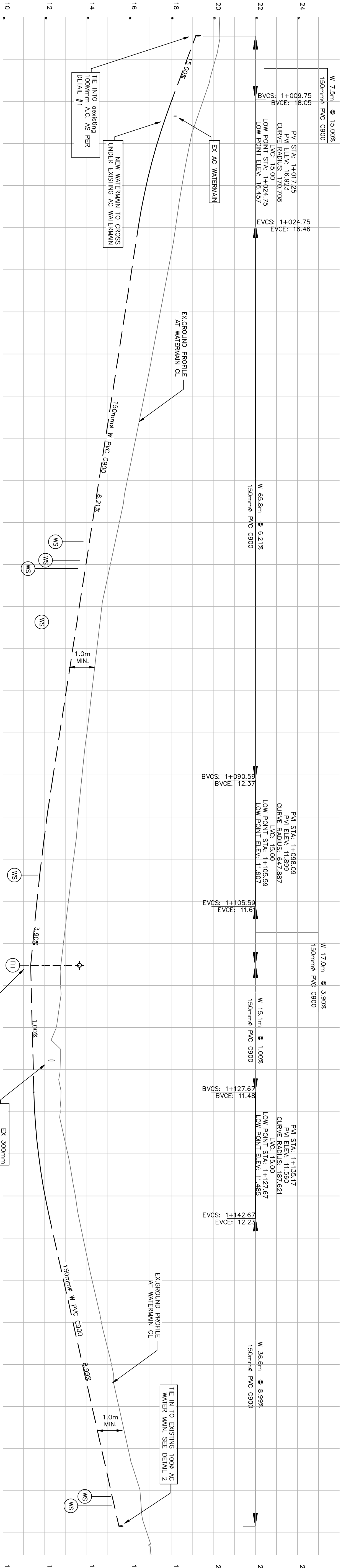
A14. The addendum #3 drawing will reflect the change.

Risk assessment

A risk assessment for AC pipe has been completed and is attached. It is assumed that the new services will be installed above the existing AC pipe and a minimum vertical separation of 35mm vertical separation will be maintained. If the existing AC pipe is too shallow to allow the new services to be installed above the AC pipe, and the services will be installed below the existing AC pipe, then the AC pipe will need to be removed 1.5m from both sides of the crossings (as per the attached risk assessment). A horizontal separation of 1.5m between new and old pipe is to be maintained.

End of Addendum 3

Anthony Jeffery
Procurement Officer
Cowichan Valley Regional District
175 Ingram Street, Duncan, BC V9L 1N8
Email: purchasing@cprd.bc.ca
Tel: 250.746.2580 / Toll free: 1.800.665.3955



LEGEND:

PROPOSED	EXISTING
WATERMAIN	UTILITY POLE
SAWTOOTH SEWER	WATER VALVE
STORM DRAIN	HOBRANT
UTILITY	ELUSOUT
UTILITY	CATCHERMAN
U/G UTILITY	AIR VALVE
EDGE OF PAVEMENT	WATER METER
	ANCHOR
	HYDRO
	TEL
	CABLE
	Wd.

DESIGN:

DESIGN	DATE
DESIGN	CW
CHECKED	C.W./S.B.
APPROVED	JAN 03, 2018
APPROVED	SEP 21, 2017
APPROVED	MAR 29, 2017
APPROVED	NOV 16, 2016
APPROVED	CW

COMICHAU ENGINEERING SERVICES LTD.

6449 NORCROSS ROAD

DUNCAN, BC

250-797-1440

comichauengineering@shaw.ca

LEGAL DESCRIPTION:

LOT 1 PLAN 29355 SHAWMUN DISTRICT

CLIENT:

CVRD

PROJECT:

CHEMOY WATERMAIN REPLACEMENT

CLIENT FILE:

1297-C-01

REVISION:

C

DRAWING:

1297-C-01

FILE:

1297-C

LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE AND MUST BE VERIFIED IN AREAS OF POTENTIAL CONFLICT WITH PROPOSED SERVING

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W-C 1926/MOT PERMIT #2017-00190

PLAN/PROFILE IN DETAILS

RESTORATION NOTES

1. REINSTATE EXISTING ASPHALT DRIVEWAY WITH 50mm ASPHALT BUTT JOINT, TRENCH BACKFILL TO BE IMPORTED BASE GRAVELS COMPACTED TO 95% MGD.

2. REINSTATE EXISTING BOULEVARD WITH MIN. 150mm TOPSOIL & SEEDING, BACKFILL TO BE IMPORTED GRANULAR BASE GRAVELS COMPACTED TO 95% MGD.

3. REINSTATE EXISTING ASPHALT DRIVEWAY WITH IMPORTED GRANULAR BASE GRAVELS COMPACTED TO 95% MGD.

4. REINSTATE EXISTING CONCRETE DRIVEWAY WITH MIN. 150mm OF 30MPA CONCRETE, TRENCH BACKFILL TO BE IMPORTED BASE GRAVELS COMPACTED TO 95% MGD.

5. REINSTATE EXISTING ROAD WITH 50mm ASPHALT AND PROVIDE BUTT JOINT TO CLEAN EDGE.

6. REPAIR GROUTED ROCK WALL TO ORIGINAL OR BETTER.

NOTES:

1. REFER TO DRAWING COVER FOR NOTES, LEGEND, DRAWING SCHEDULE & LOCATION PLANS

WATER NOTES

1. INSTALL NEW 19mm WATER SERVICE, C/W NEW METER, METER SETTER, AND CONCRETE METER BOX AS PER MMCD W2a.

2. REPAIR EXISTING SERVICE WITH NEW 19mm WATER SERVICE AND TIE INTO EXISTING WATER METER AS PER MMCD W2a.

3. REPAIR EXISTING SERVICE WITH NEW 19mm WATER SERVICE AND TIE INTO EXISTING WATER METER AS PER MMCD W2a.

4. REPAIR EXISTING SERVICE WITH NEW 19mm WATER SERVICE AND TIE INTO EXISTING WATER METER AS PER MMCD W2a.

5. REPAIR EXISTING SERVICE WITH NEW 19mm WATER SERVICE AND TIE INTO EXISTING WATER METER AS PER MMCD W2a.

6. REPAIR EXISTING SERVICE WITH NEW 19mm WATER SERVICE AND TIE INTO EXISTING WATER METER AS PER MMCD W2a.

7. REPAIR EXISTING SERVICE WITH NEW 19mm WATER SERVICE AND TIE INTO EXISTING WATER METER AS PER MMCD W2a.

8. REPAIR EXISTING SERVICE WITH NEW 19mm WATER SERVICE AND TIE INTO EXISTING WATER METER AS PER MMCD W2a.

9. REPAIR EXISTING SERVICE WITH NEW 19mm WATER SERVICE AND TIE INTO EXISTING WATER METER AS PER MMCD W2a.

10. REPAIR EXISTING SERVICE WITH NEW 19mm WATER SERVICE AND TIE INTO EXISTING WATER METER AS PER MMCD W2a.



Cowichan Valley Regional District
175 Ingram Street
Duncan, BC
V9L 1N8

File Number: F2412-165

Date: January 2, 2018

Attention: Ms. Lisa Daugenet, ASCT
Via Email: ldaugenet@cvrd.bc.ca

PROJECT: SALTAIR WATERMAIN UPGRADE-DOGWOOD & CHEMOY ROADS
SUBJECT: RISK ASSESSMENT –AC PIPE CUTTING & ABANDONMENT

Dear Madam:

Lewkovich Engineering Associates Ltd. was engaged by the Cowichan Valley Regional District to produce a Risk Assessment for the proposed work conducted at the aforementioned address.

(1) Introduction:

The subject site is an excavation where work will be conducted on Asbestos Cement (AC) pipe. Pipe will be cut at approximately 7 to 10 crossing points where new services will be installed underneath the existing AC pipe. AC Pipe typically contains >60 % chrysotile Asbestos. This Risk Assessment is limited to the materials, conditions and/or areas described in the following Table and in Section 2:

ID No.	Material	Location	Quantity
MISC-1	100mm dia. AC Pipe	Dogwood Road & Chemoy Road	3± LM per location

(2) Assessed Risk (MISC-1):

- Condition of Material: Fair
- Friability: Low to Moderate (cutting method dependent)
- Percent of Asbestos: >60±%
- Exposure risk to abatement workers: Moderate
- Material not in a moving Air System
- Exposure risk to persons outside contained work area: Moderate

Overall Hazard: **Moderate**

(3) Recommendations:

AC pipe containing asbestos will be cut using a wetted 'pipe snapper' under 'Moderate Risk' procedures in accordance with WorkSafe BC publication 'Safe Work Practices for Handling Asbestos' (BK27).

Note that if proper protocols are not followed, this material has the potential to disperse high concentrations of asbestos fibres into the environment.



See also the appended Table(s) for additional risk assessment data. Based on site conditions, existing AC pipe may be abandoned in place except:

- At crossings, remove existing 1.5± m both sides from closest approach to new;
- Use Moderate Risk Procedures for cutting & removal of existing AC pipe;
- All damaged AC pipe must be removed;
- Any sections that are undermined or not overlying 'Good' substrate support must be removed;
- As-built drawings must clearly show abandoned sections and sections removed.

This Risk Assessment assumes certain conditions based on information provided by the Client, to the best of their knowledge. *Unless otherwise stated, actual subsurface conditions have not been observed. Should actual conditions differ from those anticipated, this document must be amended accordingly.*

(4) Report Use and Limitations:

This Risk Assessment meets the requirements of Section 6.6 of the BC OHS Regulations (Assessment and classification), and is not a Hazardous Materials Assessment (Report), as defined in Section 20.112. In addition to this Risk Assessment, WorkSafe BC may require Section 20.144 to be met prior to commencement of work.

In preparing this report Lewkowich Engineering Associates Ltd. (LEA Health, Safety & Environmental) reviewed historical records, conducted interviews with certain private and public officials, and conducted an on-site visual inspection of the property.

We examined and relied upon documents referenced in the report and have relied on oral statements made by certain individuals but we have not conducted an independent examination of the facts contained in referenced materials and statements.

LEA Health, Safety & Environmental assumes the genuineness of the documents and that the information provided in documents or statements is true and accurate.

LEA Health, Safety & Environmental has prepared this report in a professional manner, using that level of skill and care normally exercised for similar projects under similar conditions by reputable and competent consultants and in accordance with our normal terms and conditions. LEA Health, Safety & Environmental shall not be responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed at the time the report was prepared.

We also note that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report. Conclusions and recommendations were made within the operative constraints of the scope, budget, and schedule for this project. We believe the conclusions stated herein to be factual, but no guarantee is made or implied.



The methods employed for collection and analysis of samples are those of the American Conference of Governmental Industrial Hygienists (ACGIH), the National Institute for Occupational Safety and Health (NIOSH), provincial WCB, and/or other accepted scientific practices.

The data and commentary presented herein reflects these standards, however no other warranty is offered or implied respecting the acceptance of this report by any Regulatory authority.

(5) Closure:

Should you have any questions or require further information please contact us. Thank you for the opportunity to be of service.

Yours truly,

LEA HEALTH SAFETY & ENVIRONMENTAL

Prepared by:



Paul Johnston, D. Tech., RIHT
EPA-AHERA Building Inspector #13-0406
E-mail: pjohnston@lewkowich.com

Reviewed by:



Johanne Picard, B.Sc., RPIH
EPA-AHERA Building Inspector #13-0407
E-mail: jpicaard@lewkowich.com

Lewkowich Engineering Associates Ltd.

AC Pipe Abandonment Worksheet

SECTION ID	Dogwood Road-Chemoy Road		LEA Project No.	F2412-165		Location	Saltair Watermain Replacement					
Risk Level	Nominal SAE	Pipe Diameter	Section Length	Number of Crossings	Number of Connections	Trench Depth BGS	AC Pipe Condition**	Under/Over Existing	Substrate Support *	Crossing Angle	Vertical Separation	Horizontal Separation
1	<6"	<150mm	>100m	<3	<3	>1.75m	Good	Over	Good	90°	>150cm	≥1.5m
2	6 - 8"	150 - 200 mm	60-100m	3 - 5	3 - 5	1.25 - 1.75m	Fair	Unknown	Fair	60 - 90°	75-150cm	1 - 1.5m
3	8 - 10"	200 - 250mm	20-60m	5 - 10	5 - 10	1 - 1.25m	Poor	-	Poor	45 - 60°	50 - 75cm	0.5 - 1m
4	>10"	>250mm	<20m	>10	>10	<1m	Unknown	Under	Unknown	<45°	<50cm	<0.5m

All criteria are new installation relative to existing AC pipe installation

* Geotechnical opinion may be required

** QP opinion required

Enter Risk Level	1	1	3	1	3	3	4	1	1	4	1
Overall Risk Assessment	23	11 - 25	Existing AC pipe may be abandoned in place if separated from new by at least 1.5m. <i>As-built drawings must clearly show abandoned sections and sections removed. At crossings, remove existing 1.5m both sides closest approach to new. Use Moderate Risk Procedures for cutting & removal of existing AC pipe. All damaged AC pipe must be removed. Any sections that are undermined or not overlying 'Good' substrate support must be removed.</i>								
			26 - 44 Existing AC pipe which is not connected to new services must be fully removed.								

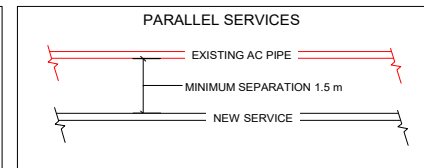
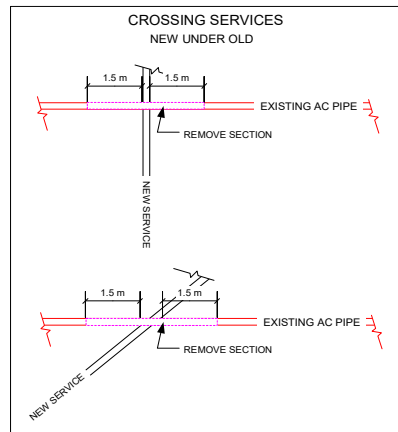
NOTE: Wherever practicable, the preferred approach is to fully remove all abandoned AC pipe, defined by WSBC as 'Asbestos Waste'. Abandonment in place must be justified in the Risk Assessment document.

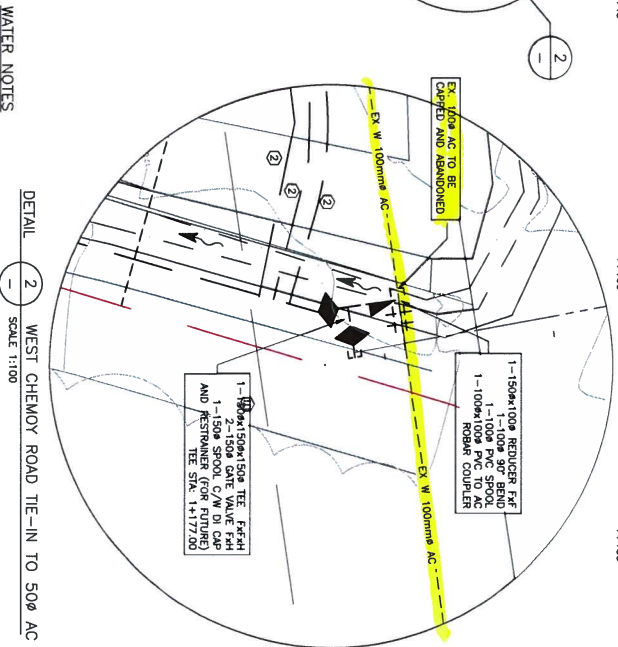
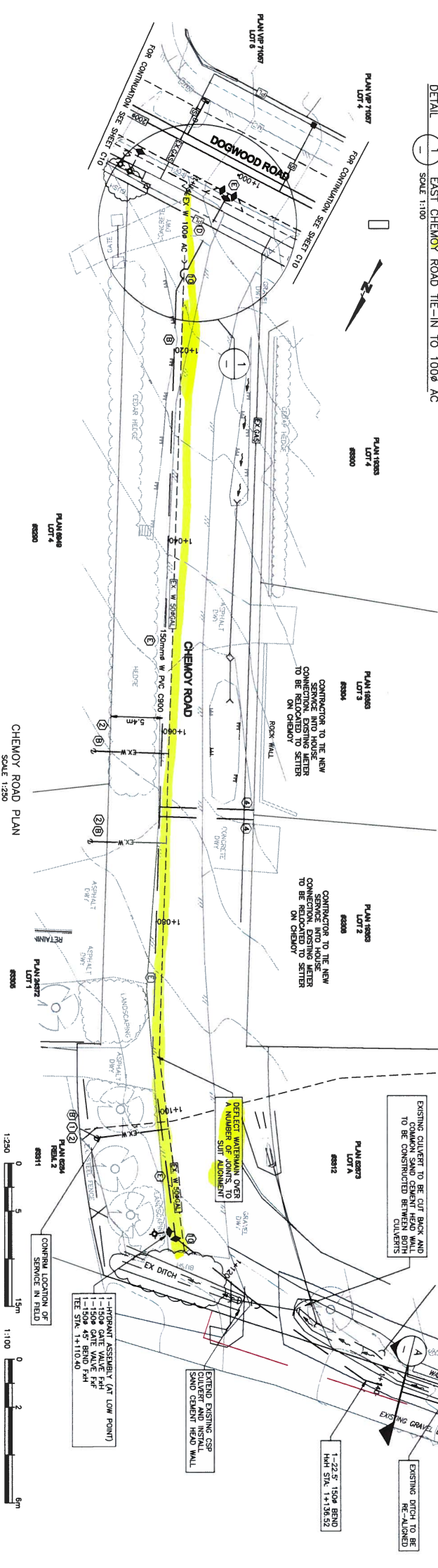
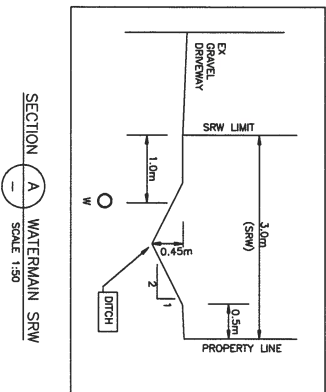
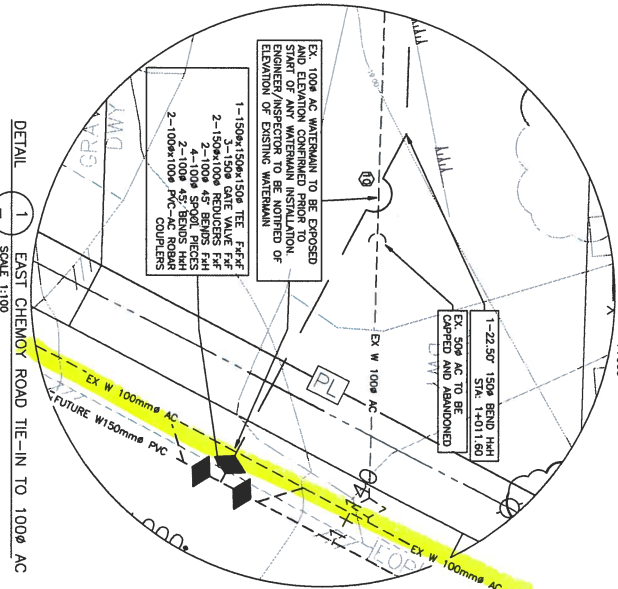
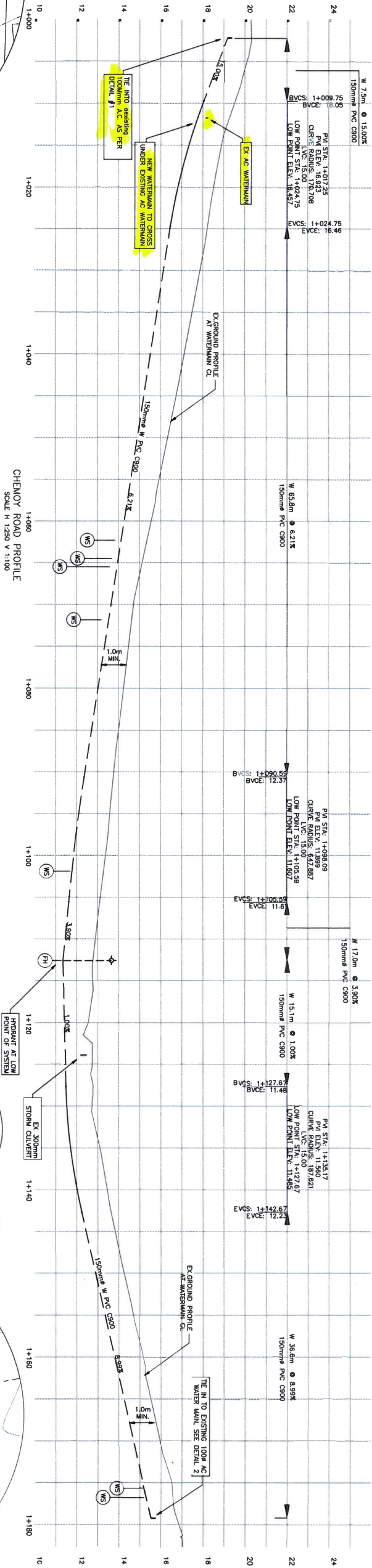
This Risk Assessment assumes certain conditions based on information provided by the Client, to the best of their knowledge. *Unless otherwise stated, actual subsurface conditions have not been observed. Should actual conditions differ from those anticipated, this document must be amended accordingly.*

This document is to be used for guidance by a 'Qualified Person' as defined by WSBC. Any related Risk Assessment may consider other external factors that may influence decisions respecting abandonment in place.

Attach construction drawings, specifications and photographs as necessary for clarity.

- NOTES
- (1) Establish condition of existing AC pipe before finalizing Risk Assessment
 - (2) Establish subgrade conditions before finalizing Risk Assessment





WATER NOTES

1. INSTALL NEW 150mm WATER SERVICE, C/W NEW METER, METER SETTER, AND CONCRETE METER BOX AS PER MAND WZO.
2. WZO AND EXISTING SERVICE WITH NEW 150mm WATER SERVICE AND TIE INTO EXISTING WATER METER, AS PER MAND STD WZO. IF THERE IS NO EXISTING METER SETTER, INSTALL NEW METER SETTER AS PER MAND WZO.
3. BY CROD INSPECTOR, EXISTING WATER SERVICE, C/W NEW METER, METER SETTER, AND CONCRETE METER BOX AS PER MAND WZO.
4. WZO AND WZO.
5. INSTALL NEW 25mm WATER SERVICE AND TIE INTO EXISTING WATER METER (AT REAR OF LOT), AS PER MAND STD WZO.
6. CROD INSPECTOR, EXISTING WATER SERVICE AND TIE INTO EXISTING WATER METER (AT REAR OF LOT), AS PER MAND STD WZO.
7. AFTER ABANDONMENT OF EXISTING MAIN, REMOVE EXISTING APPROPRIATE, CAP EXISTING AC WATERMAIN, REINSTATE EXISTING FINISH SURFACES TO EXISTING OR BETTER CONDITION AT CROD INSPECTOR'S SATISFACTION.
8. BEFORE EXISTING STAND PREP, CAP EXISTING AC WATERMAIN, REINSTATE EXISTING FINISH SURFACES TO EXISTING OR BETTER CONDITION AT CROD INSPECTOR'S SATISFACTION.
9. REMOVE EXISTING FINISH OUT & REINSTATE EXISTING FINISH SURFACES TO EXISTING OR BETTER CONDITION AT CROD INSPECTOR'S SATISFACTION.
10. CONTRACTOR TO CONFORM THE LOCATION AND ELEVATION OF ALL EXISTING WATERMANS AT THE IN-OR CROSSING LOCATIONS A MINIMUM OF 48 HOURS PRIOR TO THE START OF ANY CONSTRUCTION. ENGINEER/INSPECTOR TO BE NOTIFIED OF ALL VALVES, BENDS, FITTINGS, AND REDUCERS TO BE MECHANICALLY RESTRAINED USING LINPLANGE #1300C RESTRAINERS FOR FITTINGS, #1300C FOR BELL, X SPOUT PIPE AS PER CROD/MAND OR APPROVED EQUIVALENT.

RESTORATION NOTES

1. REINSTATE EXISTING ASPHALT DRIVEWAY WITH 50mm ASPHALT BUTT JOINT, TREKCH BACKFILL TO BE IMPORTED BASE GRANULARS COMPACTED TO 95% MPO.
2. WZO AND EXISTING SERVICE WITH NEW 150mm WATER SERVICE AND TIE INTO EXISTING WATER METER, AS PER MAND STD WZO. IF THERE IS NO EXISTING METER SETTER, INSTALL NEW METER SETTER AS PER MAND WZO.
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NOTES

- 1. REFER TO DRAWING COVER FOR NOTES, LEGEND, DRAWING SCHEDULE, & LOCATION PLANS

W-C 1925/MOIT PERMIT #2017-00190

LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE AND MUST BE VERIFIED IN AREAS OF POTENTIAL CONFLICT WITH PROPOSED SERVING

SALTAR WATERMAIN REPLACEMENT

CLIENT: CVRD
PROJECT: CHEMOY WATERMAIN REPLACEMENT
PLAN/PROFILE IN DETAILS

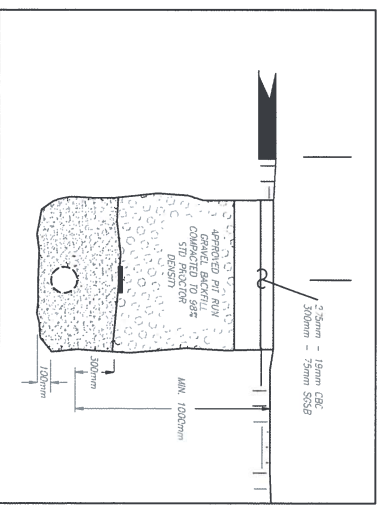
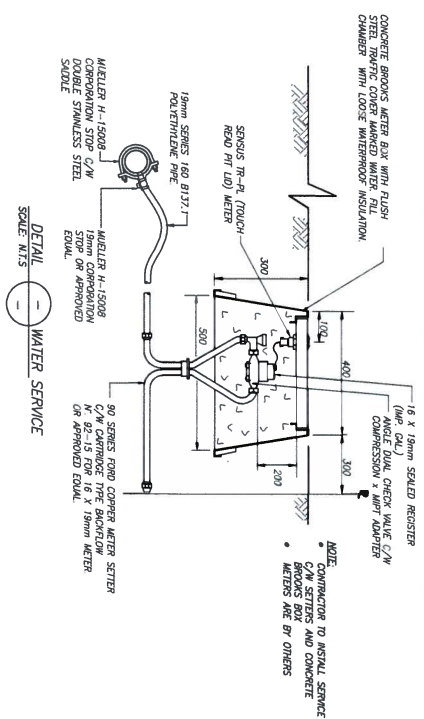
LEGEND:		PROPOSED	EXISTING
UTILITY POLE	UTILITY POLE	UTILITY POLE	UTILITY POLE
SAINTARY SINK	SAINTARY SINK	SAINTARY SINK	SAINTARY SINK
STORM DRAIN	STORM DRAIN	STORM DRAIN	STORM DRAIN
UTILITY	UTILITY	UTILITY	UTILITY
CATCH BASIN	CATCH BASIN	CATCH BASIN	CATCH BASIN
WATER VALVE	WATER VALVE	WATER VALVE	WATER VALVE
WATER METER	WATER METER	WATER METER	WATER METER
ANCHOR	ANCHOR	ANCHOR	ANCHOR
EDGE OF PAVEMENT	EDGE OF PAVEMENT	EDGE OF PAVEMENT	EDGE OF PAVEMENT

DESIGN: CV	CHECKED: M.A.	DATE: SEPT 21, 2017
DRAWN: C.W./S.R.	APPROVED: M.A.	DATE: SEPT 21, 2017
DATE: SEPT 21, 2017	DATE: SEPT 21, 2017	DATE: SEPT 21, 2017
SCALE: AS NOTED	SCALE: AS NOTED	SCALE: AS NOTED

CORRECTION ENGINEERING LTD.
200-737-1100
200-737-1100
200-737-1100

LEGAL DESCRIPTION:
LOT 1 PLAN 2535 SHAWANAN DISTRICT

2442-165

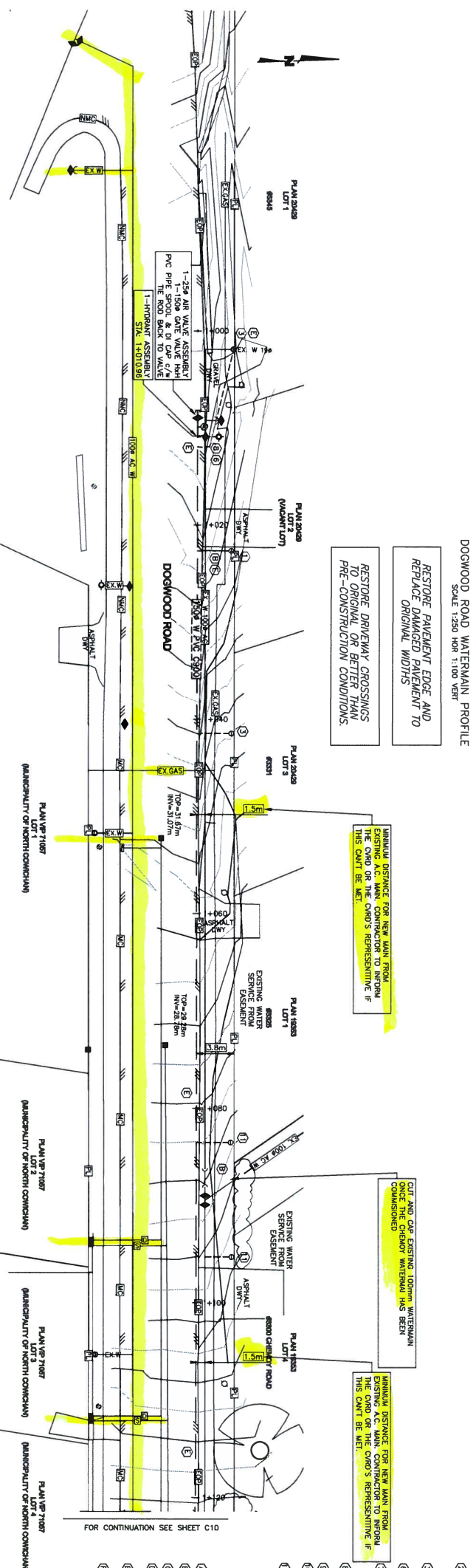


DETAIL TYPICAL TRENCH DETAIL
SCALE: N.T.S.

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NOTES:

- REFER TO DRAWING CO FOR NOTES, LEGEND, DRAWING SCHEDULE, & LOCATION PLANS



DOGWOOD ROAD PLAN
SCALE 1:250

[illegible]

 <p>Call 800-4-A-ONE or 1-800-477-2259</p>	<p>LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE AND MUST BE VERIFIED IN AREAS OF POTENTIAL CONFLICT WITH PROPOSED SEWERING</p>
<p>VIA WATER SUPPLY SYSTEM CONSTRUCTION PERMIT W-C-1935</p>	<p>© 2017 COMCHAM ENGINEERING, LTD. ALL RIGHTS RESERVED THIS DOCUMENT IS PROTECTED BY COPYRIGHT LAW AND MAY NOT BE REPRODUCED IN ANY MANNER, OR FOR ANY PURPOSE, EXCEPT BY WRITTEN PERMISSION OF COMCHAM ENGINEERING, LTD.</p>

SALT AIR WATERMAIN REPLACEMENT

CVRD

DOGWOOD WATERMAIN REPLACEMENT PLAN/PROFILE IN DETAILS

LEGAL DESCRIPTION:

Cowichan
CITS
Engineering Services Ltd.

COMICLAN ENGINEERING SERVICES LTD.

VBL 1V1
250-737-1440
powellharrington@att.net

APPROVED: _____
DATE: SEPT 21, 2017
SCALE: AS NOTED

SEPT 21, 2017	CW
MAY 02/17	CW

D FOR TENDER
D FOR TENDER

ISS	ISS
ISS	ISS

FLUSHOUT
AIR VALVE

CATCHBASIN	
DITCH	

QUALITY	<input checked="" type="checkbox"/>
	<input type="checkbox"/>

UTL
4/6[illegible]



Meeting Minutes

Chemoy/Dogwood Watermain Upgrade Tender Meeting

December 12, 2017

1:30 pm

Meeting Location: Onsite at Dogwood and Chemoy Road, Saltair

-contractor will need to pull a permit from DNC, \$200 for the permit. Cow. Eng will inquire if DNC will require the \$2000 deposit.

\$2000 bond will be required (January 2, 2018)

-driveway crossings are part of lump sum pricing

-is a risk assessment required for the asbestos pipe? CVRD will inquire with Worksafe about the requirements

Risk assessment has been completed and is attached as part of this addendum (January 2, 2018)

-3312 Chemoy. The service will be renewed to the meter box. The new pipe is to go underneath the concrete walkway

-pressure testing of the services located on 3312 Chemoy should be done during the watermain shut down to avoid breaks in the old line.

-existing ROW on 3312 Chemoy will be marked out prior to construction

-3304 Chemoy, an addendum will be issued adding a line item for pricing of the water service with the aligned on the south side of the property (to the left of the driveway)

- patch at the corner of Dogwood and Chemoy (driveway for 3290 Chemoy) will be asphalt not concrete

-contractor will ask DNC for use of the hydrant on Dogwood for water

-does the CVRD want the hydrant at the corner of Chemoy and Dogwood?

Yes (January 2, 2018)