



COWICHAN VALLEY REGIONAL DISTRICT

Request for Quotations

For

**Watermain Installation and Replacement
Chemoy/Dogwood Road
Saltair Water System**

Request for Quotation No.: **R17-28**

Issued: **December 6, 2017**

Submission Deadline: **December 21, 2017 @ 2 p.m. local time**

COWICHAN VALLEY REGIONAL DISTRICT
175 INGRAM STREET
DUNCAN BC V9L 1N8
www.cvrld.bc.ca

INTRODUCTION

Invitation

This Request for Quotations (“the RFQ”) issued by The Cowichan Valley Regional District (“the CVRD”) is an invitation to submit non-binding offers for the provision of **Watermain Installation and Replacement, Chemoy/Dogwood Road, Saltair Water System** as further described in Appendix A for the Rates established in Appendix B.

A mandatory site meeting will be held at the south end of Chemoy Road (fronting 3312 Chemoy Road) on December 12, 2017 @ 1:30 p.m.

Submission Instructions

Quotations must be sent by email to the RFQ Contact at the email address:

Attention: Anthony Jeffery, Procurement Officer
Email: purchasing@cprd.bc.ca

The complete quotation must be received in the inbox of the RFQ Contact’s email address by the Submission Deadline. Quotations received after the Submission Deadline will not be considered.

It is the intention of the CVRD to enter into a contract with one (1) legal entity.

RFQ Timetable

Event	Date
Release of RFQ	December 6, 2017
Site Meeting	December 12, 2017
Deadline for Questions	December 14, 2017 @ 2 p.m.
Deadline for Issuing Addenda	December 19, 2017 4 p.m.
Submission Deadline	December 21, 2017 @ 2 p.m.

The RFQ timetable is tentative only, and may be changed by the CVRD at any time prior to the Submission Deadline.

Evaluations of Quotations

The CVRD will conduct the evaluation of quotations in the following two stages:

Stage I – Mandatory Requirements

The mandatory requirements for this RFQ are each quotation **must include** a Submission Form (Appendix B) completed and signed by an authorized representative of the respondent. Subject to the Terms of Reference and Governing Law (Appendix C), those quotations that do not satisfy the mandatory requirements as of the Submission Deadline will be disqualified and will not be evaluated further.

Stage II – Rated Criteria

Stage II will consist of a scoring of quotations on the basis of the rated criteria as set out in Section C of the RFQ Particulars (Appendix A). In addition to submitting the Pricing Form, respondents should respond to any rated criteria categories set out in Section C of the RFQ Particulars (Appendix A).

Selection of Top-Ranked Respondent

Subject to the Terms of Reference and Governing Law (Appendix C), the top-ranked respondent as established under the evaluation will be selected to enter into a contract for the provision of the Deliverables. The respondent selected pursuant to this RFQ process will be informed in writing. Respondents not selected will also be informed in writing. The selected respondent will be expected to enter into a contract within the timeframe specified in the selection notice. Failure to do so may, among other things, result in the disqualification of the respondent and the selection of another respondent or the cancellation of the RFQ.

APPENDIX A – RFQ PARTICULARS

A. THE DELIVERABLES

The works include the installation of new 150mm Watermain to be installed on private property (10335 Chemainus road, the CVRD has a Right-of-Way for access to allow the installation) and the Watermain replacement on Chemoy Road and Dogwood Road. These works include installation of related fittings and appurtenances, and tie-ins to existing mains as per the Pricing Table and the attached 'Watermain Upgrades, Electoral Area G – Saltair Chemoy/Dogwood Road Watermain Replacement' drawing.

The CVRD will be purchasing the supplies from Corix for this project and the material will be stored at Corix for the Contractor to pick up.

Master Municipal Construction Documents (MMCD) specifications will be used for all constructions specifications, details and drawings. Contractors will be required to use construction methods that minimize impact to existing landscaping and residential property. The Contractor is to supply all labour, equipment and aggregates to make good the installation of the Watermain.

B. MATERIAL DISCLOSURES

The successful bidder will:

1. Provide a Performance Bond and a Labour and Material Payment Bond, each in the amount of 50% of the Contract Price, covering the performance of the Work including the Contractor's obligations during the Maintenance Period, issued by a surety licensed to carry on the business of suretyship in the province of British Columbia, and in a form acceptable to the Owner.
2. A WorkSafeBC Clearance letter.
3. Be considered by the Owner as the Prime Contractor on this project and shall be required to submit all Work Safe BC assurance and approvals for the duration of the work. The Contractor will submit a 'Notice of Project' to Work Safe BC, including work with asbestos (NOPA).
4. At its own expense, provide and maintain throughout the Term the following insurance in a form acceptable to the Regional District, with an insurer licensed in British Columbia
 - a. Commercial General Liability and Property Damage \$5,000,000.00
 - b. Automobile Insurance (owned and non-owned) \$5,000,000.00

In all policies of insurance required under this Agreement (except automobile insurance on vehicles owned by the Contractor) the Regional District shall be named as additional insured and all such policies shall contain a provision that the insurance shall apply as though a separate policy had been issued to each named insured. All such policies shall provide that no cancellation or lapse of or material alteration in the policy shall become effective until 30 days after written notice of such cancellation, lapse or alteration has been given to the Regional District.

Any deductible amounts in the foregoing insurance which are payable by the policyholder shall be in an amount acceptable to the Regional District.

5. Prior to release of final payment, the Contractor shall provide a Statutory Declaration that all employees, subcontractors and suppliers used in conjunction with the work have been fully paid and

satisfied by the Contractor and witnessed by a Notary Public or a Commissioner for taking Affidavits and submitted to the CVRD.

6. Before commencing any work the Contractor shall be responsible to locate all underground utilities and structures and consult with all utility corporation that provide electricity, communication, gas or other utility services in the area of work.
7. The Contractor shall be named Prime Contractor and be responsible for safety management for all person who are present with the boundaries of the Work Site Plan.
8. Record any anomalies noted with installation such as leaks, unusual type of pipe, exceptional depth or issues with site restoration or owner and submit to the Contract Administrator
9. Place existing meters on new services after replacement main has been pressure tested and a successful bacteriological water test has been completed
10. Restore site to "as good as" or better than the original condition including, but not limited to, placement of topsoil and grass seed. For properties where driveway rehabilitation is required contractor is to take before and after photographs. Photographs are to be provided to the CVRD upon request.
11. Obtain all necessary permits; all work must be in conformance with the Safety Authority, Work Safe BC and all other relevant regulatory requirements. Contractor will complete all work in accordance with the Ministry of Transportation and Infrastructure (MOTI) Permit to Construct # 2017-01567 (approval pending).
12. The location of the project work has been identified as having the potential for the presence of currently unrecorded archaeological sites situated within the Project area. The Contractor must work with the Golder Archaeologist and abide by the terms and conditions of the Heritage Conversation Act permit by the Provincial Archaeological Branch to the Golder Archaeologist on behalf of the Cowichan Valley Regional District.
 - a. Archaeological monitoring will be completed by the Golder Archaeologist with the assistance of First Nations with Aboriginal interest in the Project area.
 - b. Archaeological construction monitoring may be conducted that will include observation of machine excavation of soils and sediments with the Project area. Excavated material will be screened or raked for archaeological material. Machinery operators may be asked to stop the equipment on occasion to allow for closer inspection. All observed artifacts will be collected and a judgemental sample of removed soils will be screened. If undisturbed or otherwise significant remains are encountered then operators may be asked to stop machinery for an unknown period of time to allow for data recovery.
 - c. Artefacts will remain the property of the Province of British Columbia.
 - d. The Golder Archaeologist will be on call for archaeological chance find call-outs in the event archaeological sites are identified during construction activities.
 - e. The Contractor is required to provide immediate notice to the Golder Archaeologist if evidence of cultural resources are encountered excavation/construction, and await the Archaeologist's

instructions before proceeding with work in this area. A Chance Find Procedure and Contractor orientation will be provided by Golder Associates.

- f. In the event of a required shutdown, up to 5 hours, triggered by archaeological considerations, the Contractor will be paid 'standby' time. Standby time will be based on rates stated in quoted Schedule of Prices, Provisional Item.

- 13. The Safe Work Procedures for working with asbestos pipe will be submitted to the CVRD prior to the start of work.
- 14. All Tie-ins shall be performed by the Contractor, inspected and witnessed by CVRD personnel and/or the Contract Administrator
- 15. Material and compaction testing Quality Control will be required by the Contractor.
- 16. The CVRD will perform verification of pipe disinfection, with lab samples to show an absence of coliforms. Testing water will be provided from CVRD hydrants with prior permission. A recently tested DCVA assembly is to be provided by the Contractor.
- 17. The Contractor must have available for inspection by the Contract Administrator detailed records and located of all concealed, or other, work as it is completed.

C. RATED CRITERIA

Stage II will consist of an evaluation of the quotation to determine the high score based on the following criteria:

Rated Criteria Category	Weighting (Points)
Pricing	60
Experience and Qualifications	20
References	20
Total Points	100

Suggested Content for the Evaluation of Rated Criteria

1. *Experience and Qualifications – Total Points = 20 points*

Each proponent should provide the following in its proposal:

- (a) a brief description of the proponent;
- (b) a description of the goods and services the proponent has previously delivered and/or is currently delivering, with an emphasis on experience relevant to the Deliverables;
- (c) the roles and responsibilities of the proponent and any of its agents, employees and sub-contractors who will be involved in providing the Deliverables, together with the identity of those who will be performing those roles and their relevant respective expertise;
- (d) its knowledge, skills and expertise in the following areas: Watermain installation, safe work practices, public relations
- (e) a description of how the proponent will provide the Deliverables, which should include a work plan and incorporate an organizational chart indicating how the proponent intends to structure its working relationship with the Region.

2. References – Total Points = 20 points

Each proponent is requested to provide three (3) references from clients who have obtained goods or services similar to those requested in this RFP from the proponent in the last **two** years.

3. Evaluation of Pricing

Pricing is worth **60** points of the total score.

Pricing will be scored based on a relative pricing formula. Each proponent will receive a percentage of the total possible points allocated to price relative to the lowest bid price, based on the following formula:

$$\text{lowest price} \div \text{proponent's price} \times \text{total available points} = \text{proponent's score}$$

APPENDIX B – SUBMISSION FORM

Respondent Information

Please fill out the following form and name one person, to be the contact for this RFQ response and for any clarifications or amendments that might be necessary.	
Full Legal Name of Respondent:	
Any other relevant name under which the respondent carries on business is:	
Street Address:	
City, Province/State:	
Postal Code:	
Phone Number:	
Fax Number:	
Company Website (if any):	
RFQ Contact Person and Title:	
RFQ Contact Phone:	
RFQ Contact Facsimile:	
RFQ Contact E-mail:	

Acknowledgement of Terms of Reference and Governing Law

The respondent acknowledges that this RFQ process will be governed by the specific Terms of Reference and Governing Law set out in this RFQ and that, among other things, the Terms of Reference and Governing Law confirm that this procurement process does not constitute a formal legally binding bidding process and that there will be no legal relationship or obligations created until the CVRD accepts the respondent's offer in writing.

Ability to Provide Deliverables

The respondent has carefully examined this RFQ and has a clear and comprehensive knowledge of the Deliverables required. The respondent represents and warrants its ability to provide the Deliverables in accordance with the pricing set out below.

Addenda

The respondent is deemed to have read and accepted all addenda issued by the CVRD prior to the Deadline for Issuing Addenda. The onus is on respondents to make any necessary amendments to their quotations based on the addenda. The respondent is requested to confirm that it has received all addenda by listing the addenda numbers, or if no addenda were issued by writing the word "None", on the following line: _____ . Respondents who fail to complete this section will be deemed to have received all posted addenda.

Non-Binding Pricing

Non-binding rates shall be provided in Canadian funds, inclusive of all applicable duties and taxes except for applicable sales taxes, which should be itemized separately.

SCHEDULE OF PRICES

DESCRIPTION OF WORKS	UNIT	QUANTITY	UNIT RATE (\$)	TOTAL AMOUNT (\$)
Install 150mm C900 PVC Watermain and all other appurtenances as shown on Design drawings 1297-C-01,1297-C-02 & 1297-C-03, including drainage works through SRW and traffic control	LS	1		
Short Side 19mm water services c/w meter setters and boxes and/or sample port	each	14		
3308 Chemoy Road water service c/w meter setter and box and routing of service to connection at house. Works to include all required remediation of service route	LS	1		
3304 Chemoy Road water service c/w meter setter and box and routing of service to connection at house. Works to include all required remediation of service route	LS	1		
3-25mm water services through easement in the rear yard of #3312 Chemoy	LS	1		
3300 Dogwood Road water service c/w meter setter and box and routing of service to connection at house. Works to include all required remediation of service route.	LS	1		
3325 Dogwood Road water service c/w meter setter and box and routing of service to connection at house. Works to include all required remediation of service route.	LS	1		
HMAC Restoration	SQ.m	135		
GST				
TOTAL PRICE				

Optional Item

DESCRIPTION OF WORKS	UNIT	QUANTITY	UNIT RATE (\$)	TOTAL AMOUNT (\$)
Pour in place Headwall	1			

Provisional Items

DESCRIPTION OF WORKS	UNIT	QUANTITY	UNIT RATE (\$)
Trench Rock	Cu. m.	1	
Stand-by time for excavator	Hr.	1	
Stand-by time for compactor	Hr.	1	
Stand-by time for Dump Truck	Hr.	1	
Stand-by time for staff (Operator)	Hr.	1	
Stand-by time for staff (Labourer)	Hr.	1	
Stand-by time for staff (Superintendent)	Hr.	1	

Conflict of Interest

“Conflict of Interest” includes, but is not limited to, any situation or circumstance where:

- (a) in relation to the bidding process, the respondent has an unfair advantage or engages in conduct, directly or indirectly, that may give it an unfair advantage, including but not limited to (i) having or having access to information in the preparation of its quotation that is confidential and not available to other respondents; (ii) communicating with any person with a view to influencing preferred treatment in the RFQ process; or (iii) engaging in conduct that compromises or could be seen to compromise the integrity of the open and competitive RFQ process and render that process non-competitive and unfair; or
- (b) in relation to the performance of its contractual obligations contemplated in the contract that is the subject of this procurement, the respondent's other commitments, relationships or financial interests (i) could or could be seen to exercise an improper influence over the objective, unbiased and impartial exercise of its independent judgement; or (ii) could or could be seen to compromise, impair or be incompatible with the effective performance of its contractual obligations.

If the box below is left blank, the respondent will be deemed to declare that: (1) there was no Conflict of Interest in preparing its quotation; and (2) there is no foreseeable Conflict of Interest in performing the contractual obligations contemplated in the RFQ.

Otherwise, if the statement below applies, check the box.

- ☐ The respondent declares that there is an actual or potential Conflict of Interest relating to the preparation of its quotation, and/or the respondent foresees an actual or potential Conflict of Interest in performing the contractual obligations contemplated in the RFQ.

If the respondent declares an actual or potential Conflict of Interest by marking the box above, the respondent must state on a separate sheet details of the actual or potential Conflict of Interest.

Signature of Witness:

Signature of Respondent Representative:

Name of Witness:

Name and Title:

Date of Signature:

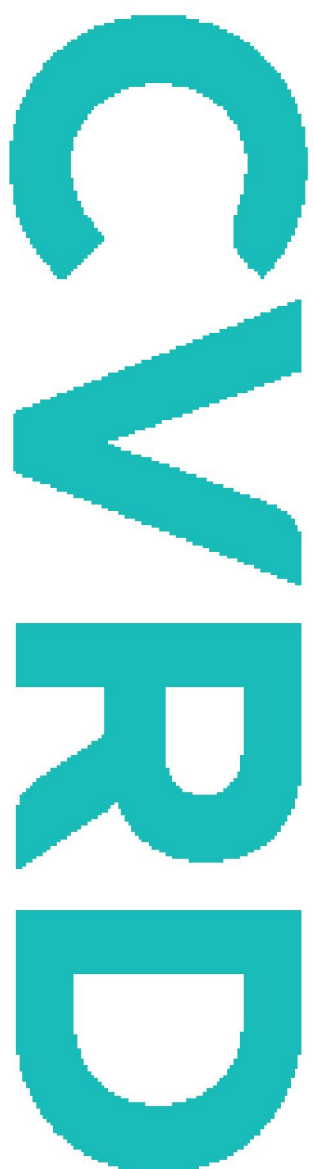
I have authority to bind the Respondent.

APPENDIX C - TERMS OF REFERENCE AND GOVERNING LAW

In responding to this RFQ, each respondent must submit a completed and signed Submission Form (Appendix B) that, among other things, acknowledges its acceptance of the following RFQ Terms of Reference and Governing Law:

- (a) This RFQ process is not intended to create a formal, legally binding bidding process and shall not give rise to the legal rights or duties applied to a formal Contract A binding bidding process or any other legal obligations arising out of any tendering process contract or collateral contract, and instead shall be governed by the common law applicable to direct commercial negotiations.
- (b) No legal obligation regarding the procurement of any good or service shall be created until the CVRD and the selected respondent have entered into a written contract for the Deliverables.
- (c) Neither party shall have the right to make any claims (in contract, tort, or otherwise) against the other with respect to the award of a contract, failure to award a contract or a decision of the respondent to withdraw its quotation.
- (d) The CVRD may cancel this RFQ process at any time.
- (e) Procurements falling within the scope of Chapter 5 of the Agreement on Internal Trade and/or the New West Partnership Trade Agreement are subject to those trade agreements but that the rights and obligations of the parties will be governed by the specific terms of this RFQ.
- (f) The respondent consents to the collection and use by the CVRD of the information as contemplated under this RFQ for the uses contemplated under this RFQ.
- (g) The respondent will bear its own costs associated with, or incurred in, the preparation and presentation of its quotation, including, if applicable, costs incurred for interviews or demonstrations.
- (h) Respondents may direct questions or seek additional information in writing by e-mail to the RFQ Contact on or before the Deadline for Questions. The CVRD is under no obligation to provide additional information but may do so at its sole discretion. It is the responsibility of the respondent to seek clarification from the RFQ Contact on any matter it considers to be unclear. The CVRD is not responsible for any misunderstanding on the part of the respondent concerning this RFQ or its process.
- (i) This RFQ may be amended only by addendum issued in accordance with this section. If the CVRD, for any reason, determines that it is necessary to provide additional information relating to this RFQ, such information will be communicated to all respondents by addendum. Each addendum forms an integral part of this RFQ and may contain important information, including significant changes to this RFQ. Respondents are responsible for obtaining all addenda issued by the CVRD. In the Submission Form (Appendix B), respondents should confirm their receipt of all addenda by setting out the number of each addendum in the space provided.
- (j) When evaluating quotations, the CVRD may request further information from the respondents or third parties in order to verify, clarify or supplement the information provided in the respondent's quotation, and the CVRD may revisit and re-evaluate the respondent's quotation or ranking on the basis of any such information.
- (k) The CVRD may consider the respondent's past performance on previous contracts or any other information considered relevant by the CVRD when determining the acceptability of a respondent.
- (l) The CVRD may disqualify a respondent for any conduct, situation or circumstance that constitutes a Conflict of Interest, as solely determined by the CVRD. "Conflict of Interest" shall have the meaning ascribed to it in the Submission Form (Appendix B).

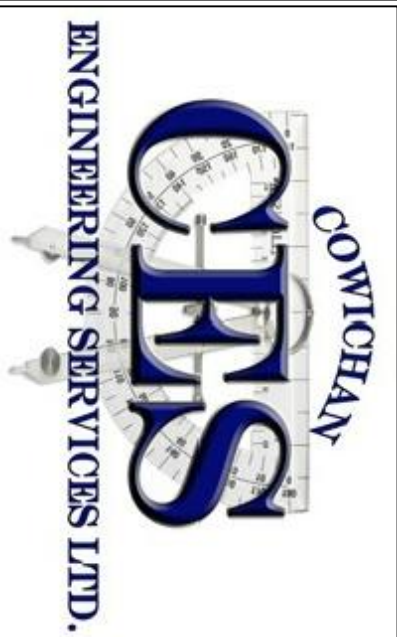
- (m) Respondents shall not engage in any illegal business practices, including such activities as bid-rigging, price-fixing, bribery, fraud or collusion. Respondents shall not engage in any unethical conduct, including lobbying or other inappropriate communications; offering gifts to elected officials, employees, officers or other representatives of the CVRD; deceitfulness; submitting quotations containing misrepresentations or other misleading or inaccurate information; or any other conduct that compromises or may be seen to compromise the competitive process.
- (n) The CVRD may elect not to consider a respondent who engages in conduct prohibited by this RFQ or whose quotation contains misrepresentations or any other inaccurate, misleading or incomplete information.
- (o) The CVRD may prohibit a respondent from participating in a procurement process based on poor past performance or inappropriate conduct in a prior procurement process, including but not limited to (i) illegal and unethical conduct; (ii) the submission of quotations containing misrepresentations or any other inaccurate, misleading or incomplete information, (iii) the refusal of the respondent to honour submitted pricing or other commitments, or (iv) any conduct, situation or circumstance determined by the CVRD, in its sole and absolute discretion, to have constituted an undisclosed Conflict of Interest.
- (p) Respondents may request a debriefing after receipt of a notification of the outcome of the procurement process. All requests must be made in writing to the RFQ Contact and must be made within sixty (60) days of such notification. The intent of the debriefing information session is to aid the respondent in presenting a better submission in response to subsequent procurement opportunities. Any debriefing provided is not for the purpose of providing an opportunity to challenge the procurement process or its outcome.
- (q) The CVRD makes no guarantee of the value or volume of work to be assigned to the successful respondent. The contract with the selected respondent will not be an exclusive contract for the provision of the described Deliverables. The CVRD may contract with others for goods and services the same as or similar to the Deliverables or may obtain such goods and services internally.
- (r) These terms (i) are intended to be interpreted broadly and independently (with no particular provision intended to limit the scope of any other provision); (ii) are non-exhaustive and shall not be construed as intending to limit the pre-existing rights of the parties to engage in pre-contractual discussions in accordance with the common law governing direct commercial negotiations; and (iii) are to be governed by and construed in accordance with the laws of the province of British Columbia and the federal laws of Canada applicable therein.



- **1297-C-01 CHEMOY ROAD**

- **1297-C-02 DOGWOOD ROAD 1+000 - 1+120**

- **1297C-03 DOGWOOD ROAD 1+120 - 1+305**



COWICHAN ENGINEERING SERVICES LTD
6468 NORCROSS ROAD
DUNCAN, BC
V9L 6C5
P-250-737-1440
cowichanengineering@shaw.ca

1. REEVE LEASE SURVEY PLAN FOR TRUE LOT DIMENSIONS AND
2. ALL DIMENSIONS AND ELEVATIONS ARE IN METRIC.
3. CONSTRUCT ALL WORKS IN ACCORDANCE WITH THE RELEVANT
4. CONSTRUCTION CODES AND STANDARDS OF ALL UNDERGROUND
5. SERVICE IN AND AROUND THE WORK SITE.
6. CONTACT THE CONSULTANT AT LEAST 24 HOURS IN ADVANCE OF
7. THE SATISFACTION OF THE CARD, REPLACE ALL UTILITIES AND
8. INFRASTRUCTURE DAMAGED DURING CONSTRUCTION. CONSTRUCTED
9. DRAWINGS TO PROVIDE TO THE CONSULTANT PRIOR TO FINAL
10. COMPLETION OF THE WORK. NOTE THE LOCATION OF ANY
11. COMPENSATION BOARD.
12. COMPENSATION BOARD RESPONSIBLE FOR CONSTRUCTING IS ONE CALL
13. AND ANY OTHER UTILITIES FOR LOCATES PRIOR TO CONSTRUCTION.
14. A WORK SCHEDULE MUST BE SUBMITTED AND APPROVED PRIOR TO
15. EXCEEDING COMPLETION DATES AND SPECIFY THE RESOURCES THAT
16. WILL BE ASSIGNED TO THE PROJECT UNTIL COMPLETION.

1. ANY RAIL-OFF CREATED FROM CONSTRUCTION TO BE DIRECTED TOWARDS THE SILT FENCED AREA.
2. PRIOR CONSTRUCTION IN FILL AREAS INSTALL SILT FENCING ALONG A DESIGNATED OUTLET
3. SILT FENCING TO BE PROPERLY INSTALLED WITH THE BOTTOM OF THE FENCING BEING EMBEDDED 100mm INTO THE GROUND PER THE DETAIL
4. EROSION AND SEDIMENTATION MEASURES TO STAY IN PLACE UNTIL CONSTRUCTION IS 90% COMPLETE AND ALL DISTURBED SURFACES HAVE BEEN GRAVEELED.

1. USE EROSION MANAGEMENT PRACTICES DURING CONSTRUCTION, ADJUST WORK ACTIVITIES DURING HEAVY RAIN TO MINIMIZE SEDIMENTS CONTRIBUTING TO THE STORM DRAINAGE SYSTEM. SOME STEPS TO CONSIDER:
 - CHECK ALL EQUIPMENT FOR FLUID LEAKS PRIOR TO ENTERING THE WORK AREA
 - SMALL PROTECTION MEASURES ARE IN PLACE
 - A SPILL KIT IS TO BE MAINTAINED ON SITE THROUGHOUT CONSTRUCTION
 - EROSION IS TO BE MANAGED WITHIN THE WORK AREA AND BE TREATED BEFORE DISCHARGED. THIS MAY INCLUDE:
 - ONE-SITE DETENTION AND/OR CULVERT ALTERNATION
 - COVER EXPOSED SOIL STOCKPILES IN INCLEMENT WEATHER
 - STOCKPILE SOILS AWAY FROM CULVERT INLETS AND ENSURE THEY ARE COVERED IF LEFT FOR MORE THAN 48 HOURS
 - PLACE THIN RAIN BAR AND PLET FABRIC AT THE INLET OF CULVERT
 - SURROUND PROTECTED TREES WITH SNOW FENCING AT DBP LINE OR CRITICAL ROOT ZONE OF TREE DURING CONSTRUCTION

1. ALL WORKS TO BE IN ACCORDANCE WITH MDCO PLATINUM SPECIFICATIONS.
2. ALL WATER MAINS TO BE 6000 PSI UNLESS OTHERWISE SPECIFIED.
3. ALL WATER MAINS WITHIN 300' HORIZONTAL OR 0.45% VERTICAL OF SANITARY OR STORM DRAIN MAINS TO BE WAREPiped AND COVERED WITH A PETROLATUM BASED WAX AND TIE COATING TO A MIN. C21722.
4. ALL WATER MAINS FOR POKABLE WATER USE AND CONFORMANCE WITH AWC C21722.
5. A MINIMUM 3.000" HORIZONTAL CLEAR SEPARATION SHALL BE MAINTAINED BETWEEN ALL WATER MAINS AND SANITARY SEWERS, SANITARY SEWERS, EXCEPT WHERE NOTED AND APPROVED BY THE CDDO.
6. ALL WATER MAINS SHALL BE INSTALLED WITH A 0.45% VERTICAL SEPARATION FROM ALL LVED JOINTS WITH A PETROLATUM BASED WATER RESISTANT TO BE 13"MINIMUM UNLESS OTHERWISE NOTED.
7. ALL EXISTING SUE-B STANDARD 12"min WATER SERVICES FROM THE STREET TO THE PROPERTY LINE GENERAL SERVICE MAIN TO THE PROPERTY LINE GENERAL SERVICE MAIN TO BE 12" MINIMUM UNLESS OTHERWISE NOTED.
8. ALL COLD WATER BOARDS OF EXISTING WATERMAIN TO BE REPAIR, RESTRAIN, ALL TESTS, REPAIRS AND CLOS (EXCEPT CLOS ON EXISTING BLOCKS) WITH MECHANICAL JOINT RESTRAINTS OR ANCHORED BLOCKS.
9. ALL EXISTING WATER SERVICE 7/8" (110 PSI) AND WATERMAIN 8" (150 PSI) SHALL BE REPLACED WITH 1" (150 PSI) AND 12" (150 PSI) PRESSURE 1380 PSI (600 PSI) AS PER MDCO SPECIFICATIONS.
10. ALL NEW MAINS TO BE INSTALLED WITH STORZ CONNECTIONS.
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1. ALL WORKS TO BE IN ACCORDANCE WITH MDCO PLATINUM SPECIFICATIONS.
2. ALL WATER MAINS TO BE 6000 PSI UNLESS OTHERWISE SPECIFIED.
3. ALL WATER MAINS WITHIN 300' HORIZONTAL OR 0.45% VERTICAL OF SANITARY OR STORM DRAIN MAINS TO BE WAREPiped AND COVERED WITH A PETROLATUM BASED WAX AND TIE COATING TO A MIN. C21722.
4. ALL WATER MAINS FOR POKABLE WATER USE AND CONFORMANCE WITH AWC C21722.
5. A MINIMUM 3.000" HORIZONTAL CLEAR SEPARATION SHALL BE MAINTAINED BETWEEN ALL WATER MAINS AND SANITARY SEWERS, SANITARY SEWERS, EXCEPT WHERE NOTED AND APPROVED BY THE CDDO.
6. ALL WATER MAINS SHALL BE INSTALLED WITH A 0.45% VERTICAL SEPARATION FROM ALL LVED JOINTS WITH A PETROLATUM BASED WATER RESISTANT TO BE 13"MINIMUM UNLESS OTHERWISE NOTED.
7. ALL EXISTING SUE-B STANDARD 12"min WATER SERVICES FROM THE STREET TO THE PROPERTY LINE GENERAL SERVICE MAIN TO THE PROPERTY LINE GENERAL SERVICE MAIN TO BE 12" MINIMUM UNLESS OTHERWISE NOTED.
8. ALL COLD WATER BOARDS OF EXISTING WATERMAIN TO BE REPAIR, RESTRAIN, ALL TESTS, REPAIRS AND CLOS (EXCEPT CLOS ON EXISTING BLOCKS) WITH MECHANICAL JOINT RESTRAINTS OR ANCHORED BLOCKS.
9. ALL EXISTING WATER SERVICE 7/8" (110 PSI) AND WATERMAIN 8" (150 PSI) SHALL BE REPLACED WITH 1" (150 PSI) AND 12" (150 PSI) PRESSURE 1380 PSI (600 PSI) AS PER MDCO SPECIFICATIONS.
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1. ALL WORKS TO BE IN ACCORDANCE WITH MMSD PLATINUM EDITION 2008.
2. ALL MANHOLES TO BE IN ACCORDANCE WITH MMSD PLATINUM EDITION 2008 PRIOR TO BE C900 PVC UNLESS OTHERWISE SPECIFIED.
3. ALL WETWEAR JOINTS WITHIN 3.00m HORIZONTAL OR 0.45m VERTICAL SEPARATION SHALL BE CONCRETE OR CAST IN PLACE AND COATED WITH A PETROLATUM BASED WAX AND TAPE COATING SYSTEM APPROVED FOR POTABLE WATER USE AND CONFORMING TO THE MMSD SPECIFICATIONS.
4. MINIMUM 3.00m HORIZONTAL CLEAR SEPARATION SHALL BE MAINTAINED BETWEEN WETWEAR JOINTS AND ALL SANITARY SERVICE SERVICES AND DRAIN SERVICE SERVICES EXCEPT WHERE THE WETWEAR JOINT IS LOCATED WITHIN 1.50m OF THE SERVICE.
5. WHERE NEW CATCHBASIN (CB) LEADS DO NOT HAVE 0.45m VERTICAL SEPARATION, WRAP OR LEAD JOINTS WITH PETROLATUM BASED WAX AND TAPE COATING SYSTEM APPROVED FOR POTABLE WATER SERVICES TO BE 19mm* UNLESS OTHERWISE NOTED.
6. ALL NEW WATER SERVICES TO BE 19mm* UNLESS OTHERWISE NOTED.
7. ALL EXISTING SUB-STANDARD 12mm* WATER SERVICE CONNECTIONS TO BE REPLACED WITH 19mm* WATER SERVICES FROM THE MAIN TO THE PROPERTY LINE GENERALLY.
8. ALL GATE VALVE BOXES OR EXISTING WETWEAR TO BE REPLACED WITH 19mm* WATER SERVICES FROM THE MAIN TO THE PROPERTY LINE GENERALLY.
9. RESTRAIN ALL TIES, BRIDS AND COPS (EXCEPT COPS ON ABANDONED MAINS) WITH MECHANICAL JOINT RESTRAINTS OR THURST BLOCKS.
10. ALL SLOPE 748 P90 (110 P90) AND WETWEAR RESTRAINTS SHALL BE 1380 P90 (100 P90) AS PER MMSD SPECIFICATIONS.
11. ALL NEW WETWEARS TO BE INSTALLED WITH STOVE CONNECTIONS.
12. WATER WETWEAR IN BOULEVARD LANDSCAPE OR GRASS AREAS SHALL BE INSTALLED WITH STOVE CONNECTIONS ON TRAFFIC COVER REFER TO MMSD SPECIFICATIONS DETAILS.

W-C 1925 & 1935
MOTI PERMIT # 2017-0

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

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