

REQUEST FOR PRE-QUALIFICATIONS 20-63

HWY 19A PHASE III LANDSCAPING

December 3, 2020

The City of Campbell River has previously conducted a tender process for the Highway 19A Phase III – Civil Works project which was awarded to Wacor Holdings Ltd. The landscaping, related surface features and irrigation systems were specifically excluded from their work so that the City could establish a selected list of pre-qualified specialty landscaping firms.

It is the City's intention to allow Wacor Holdings Ltd. to seek proposals from pre-qualified landscaping contractors to sub-contract under the current agreement between the City and Wacor Holdings Ltd.

Only landscaping firms with the demonstrated landscaping experience of similar size, scope, and complexity shall be considered to participate in a selected invitation to compete as the landscape sub-contractor for Wacor Holdings Ltd.

This Pre-Qualification is available by downloading it from the City's Bids & Tenders website at: https://campbellriver.bidsandtenders.ca/Module/Tenders/en

This is not a tender. This is a non-binding Request For Pre-Qualifications and does not guarantee inclusion on a resulting shortlist of pre-qualified applicants. At its sole discretion, the City reserves the right to limit the number of pre-qualified applicants who may be invited to compete in a separate subsequent competition. Nothing in this Pre-Qualification shall obligate the City to enter into a contract with any person.

This Pre-Qualification is scheduled to close at:

Closing Time: 2:00:00 p.m. local time in Campbell River

Closing Date: Wednesday, December 16, 2020

Delivered to: Via email to purchasing@campbellriver.ca

Enquiries: Clinton Crook, SCMP, CPSM, CRM

Purchasing & Risk Officer Telephone: 250.286.5766 purchasing@campbellriver.ca

1.0 Submission Requirements

- 1.1 Submissions may be submitted via email to: purchasing@campbellriver.ca
 Ensure to state the RFPQ name, number, and "Submission" in the Subject
 Line. Email submissions should be consolidated into one (1) Adobe .PDF virus free file and no larger than 10MB's.
- 1.2 Submissions should be received by **2:00:00 p.m.**, **Wednesday December 16**th, **2020.** Pre-Qualifications will NOT be opened in public.
- 1.3 Submissions received and not conforming to Item 1.2, above, may at the *Owners* discretion, be returned (unopened) to the *Proponent*(s) without consideration.
- 1.4 All Submissions are to be in the English language.
- 1.5 Proponents assume the entire risk when submitting a Pre-Qualification via email. The Owners will not be liable for any delay or rejection for any reason, including but not limited to, technological delays or issues caused by any network or email program, rejected as suspected spam, virus, malware, or email not identified in the Subject Line as a submission and being missed. The Owners will not be liable for any damages associated with Pre-Qualifications not being received or being missed.
- 1.6 *Proponents* are solely responsible for any costs or expenses related to the preparation, submission, and presentation of qualifications.
- 1.7 After the closing time and date, all documents received by the *Owners* become the property of the *Owners*.
- 1.8 This Pre-Qualifications is subject to the terms and conditions of the Canadian Free Trade Agreement (CFTA), Mash Annex 502.4 and the New West Partnership Trade Agreement (NWPTA) between the provinces of B.C, Alberta, Saskatchewan, and Manitoba.
- 1.9 If any director, officer or employee agent or other representative of a *Proponent* makes any representation or solicitation to any Councillor, officer or employee of the *City* of Campbell River with respect to the Pre-Qualifications, whether before or after the submission of the Pre-Qualifications, the *Owners* shall be entitled to reject or not accept the Pre-Qualifications.

2.0 <u>Definitions</u>

- 2.1 "City" means The City of Campbell River.
- 2.2 "Contractor" or "Supplier" means the successful "Proponent".
- 2.3 "Proponent" means the entity submitting a qualification.

2.4 "Work" means and includes anything and everything required to be done to full fill and complete the identified scope of work.

3.0 Confidentiality and Freedom of Information

3.1 Your submission should clearly identify any information that is considered to be of a confidential or proprietary nature (the "Confidential Information"). However, the *City* is subject to the provisions of the *Freedom of Information and Protection of Privacy Act.* As a result, while Section 21 of the Act does offer some protection for third party business interests, the *City* cannot guarantee that any Confidential Information provided to the *City* will remain confidential if a request for access in respect of your qualifications is made under the *Freedom of Information and Protection of Privacy Act.*

4.0 <u>Cancellation</u>

4.1 The *City* reserves the right to cancel this Request for Pre-Qualifications at any time and for any reason, and will not be responsible for any loss, damage, cost or expense incurred or suffered by any *Proponent* as a result of that cancellation.

5.0 Accuracy of Information

5.1 The *City* makes no representation or warranty; either expressed or implied, with respect to the accuracy or completeness of any information contained or referred to in this Pre-Qualification.

6.0 Responsibility of Proponent

- 6.1 Each *Proponent* is responsible for informing themselves as to the contents and requirements of this Pre-Qualification. Each *Proponent* is solely responsible to ensure that they have obtained and considered all information necessary to understand the requirements of the Pre-Qualification and to prepare and submit their qualifications. The *City* will not be responsible for any loss, damage or expense incurred by a *Proponent* as a result of any inaccuracy or incompleteness in this Pre-Qualification, or as a result of any misunderstanding or misinterpretation of the terms of this Pre-Qualification on the part of any *Proponent*.
- 6.2 The *City* of Campbell River may at any time prior to the closing date and time issue additional information, clarifications, or modifications to the Pre-Qualification by written addenda via the *City* of Campbell River website. Information provided in the addenda shall supersede all previous information provided.
- 6.3 The *City* of Campbell River will endeavour to notify all *Proponents* of any such addenda as may be issued but it is the *Proponent's* sole responsibility to ensure they have reviewed the *City's* website for any addenda issued. By submitting a pre-qualification the *Proponent* is deemed to have accepted and to abide by all addenda issued.

- 6.4 If a *Proponent* is in doubt as to the true meaning of any part of this Request for Pre-Qualifications, or finds omissions, discrepancies or ambiguities, a request for interpretation or correction should be submitted to the Senior Buyer, in writing.
- Only the written Request for Pre-Qualifications and any addenda issued by the City should be relied upon by *Proponents* when preparing and submitting their quotations.
- 6.6 By submitting a Pre-Qualification, the *Proponent* represents that it has the expertise, qualifications, resources, and relevant experience to perform the *Work*.

7.0 Enquiries

- 7.1 All questions and enquiries should be submitted in writing no later than three (3) working days prior to the closing date of the Pre-Qualification.
- 7.2 Any questions regarding the submission of Pre-Qualifications should be directed in writing to purchasing@campbellriver.ca

8.0 References

- 8.1 The *City* shall have the right, but not the obligation, to contact any references.
- 8.2 The *City* has the right to obtain references from sources other than those supplied by the *Proponent*.

9.0 Indemnification

- 9.1 The *Contractor* hereby releases and shall indemnify and save harmless the *City*, its officers, employees, officials, agents, contractors, and representatives from and against any and all claims, costs, damages, actions, causes of action, losses, demands, payments, suits and expenses, legal fees or liability arising from:
 - errors, omissions or negligent acts of the *Contractor*, its officers, agents, members, employees, *Contractors* or subcontractors, or any other person for whom the *Contractor* is in law responsible in the performances of the Services;
 - b. the breach, violation or non-performance of this Agreement by the *Contractor*, its officers, agents, members, employees, *Contractors* or subcontractors, or any other person for whom the *Contractor* is in law responsible in the performance of the Services; or
 - c. personal injury including death, property damage and loss arising out of, suffered or experienced by any person in connection with or during the provision of the Services under this Agreement, including without limitation WorkSafeBC claims and assessments.

- 9.2 The release and indemnity contained in section 9.1 shall apply except to the extent that the claims, costs, damages, actions, causes of action, losses, demands, payments, suits, expenses or legal fees or liability arise from the negligence of the *City*, its officers, employees, officials, agents, *Contractors*, or representatives.
- 9.3 The *Contractor* is solely responsible for and shall promptly pay all WorkSafeBC premiums and assessments relating to the performance of the Services under this Agreement, whether by the *Contractor*, its officers, agents, members, employees, *Contractors* or subcontractors, or any other person for whom the *Contractor* is in law responsible.
- 9.4 The release and indemnity contained in section 9.1 shall survive the termination of this Agreement.

10.0 Declarations

- 10.1 In submitting a Pre-Qualification the *Proponent* declares that:
 - I (we) do not (or any related company) have any family, ownership, and
 operating relationships with the City, or any elected official, staff or other
 officials holding public office in the City and agree that the City reserves the
 right to reject any quotation that may be perceived to be in a conflict of
 interest.
 - I (we) am (are) not or have not:
 - a. an individual who has; or
 - b. an individual who was a shareholder or officer of a company that has; or
 - c. a company that has; or
 - d. a company with a shareholder or officer who has; or
 - e. a company that is, or was a shareholder of a company that is, or was a shareholder of a company that has; or
 - f. a company that has a shareholder or officer who is also a shareholder or officer of another company that has;
 - g. had a bid bond retained, or
 - h. had all or part of a performance bond retained, or breached a contract with the *City*, or failed to complete its obligations under any prior contract with the *City* (or any other publicly funded jurisdiction or organization in British Columbia), or has been charged or convicted of an offence in respect of a *City* (or any other publicly funded jurisdiction or organization in British Columbia) contract.

11.0 Evaluation Process

11.1 The *City* reserves the right in the case of insufficient or inadequate responses, in the sole opinion of the *City*, may cancel the Pre-Qualification and obtain the services in some other manner.

CITY OF CAMPBELL RIVER REQUEST FOR PRE-QUALIFICATIONS 20-63 HWY 19A PHASE III LANDSCAPING INSTRUCTIONS TO PROPONENTS

- 11.2 Submission of a Request For Pre-Qualifications does not guarantee inclusion of a resulting short list of Pre-Qualified applicants. The *City* reserves the right to limit the number of Pre-Qualified applicants invited to compete on any subsequent competitions.
- 11.3 The *City* reserves the right to conduct pre-selection meetings with *Proponents*. *Proponents* may be requested, as part of the evaluation process, to provide a presentation.
- 11.4 The *City* reserves the right to conduct pre-selection meetings in order to correct, change or adapt the selected qualifications to the wishes of the *City*.
- 11.5 Nothing in this Pre-Qualification is intended to indicate an offer by the *City* to enter a contract with any person who submits a response to it. While the *City* intends to evaluate Requests For Pre-Qualifications in accordance with these instructions, it has no contractual obligations to *Proponents* in connection with this Pre-Qualification process and may, without liability to any *Proponent*, evaluate submissions, or otherwise act, in accordance with its assessment of its best interest.
- 11.6 Notice in writing to a *Proponent* that it has been identified as a Pre-Qualified respondent will not constitute a contract nor give the *Proponent* any legal or equitable rights or privileges relative to the service requirements set out in this Pre-Qualification or in any subsequent competition.
- 11.7 Upon completing the evaluation process, the *City* will notify *Proponents* in writing on their status on the Selection List.
- 11.8 The *City* reserves the right to evaluate a *Proponent's* past performance and past conduct in any prior procurement processes including, but not limited to, illegal or unethical conduct, refusal of the *Proponent* to honour submitted pricing or other commitments, deficient safety practices or concerns, or demonstrated business practices that resulted in additional costs or time to the *City*.
- 11.9 An evaluation committee made up of *City* staff, consultants, and the general contractor will be reviewing Pre-Qualification submissions. The *City* is entitled to accept for consideration any or none of the Pre-Qualifications submitted. The following are some of the key considerations the *City* expects to take into account to determine best value:

Evaluation Component	Weight
Company Profile:	
Field of services offered, size, policies, memberships, safety,	10%
litigations, infractions, ability to obtain insurance, bonding, licensing,	1070
etc.	
Qualifications:	
Current employees, years of service, professional designations, site	25%
superintendent, certified horticultural technician, equipment, etc.	
Experience & References	
Municipal projects of similar size, nature, geographic location, project	30%
values, references, safety, past performance and conduct, etc.	
Approach & Methodology:	
MMCD project management, techniques, practices, deficiencies,	25%
project scheduling, maintenance, warranty, material suppliers, etc.	
Quality of Proposal:	
Completeness, overall quality and level of details of the proposal,	10%
value added services and features provided, etc.	

- 11.10 *Proponents* obtaining an overall score of 66% or higher will be considered as pre-qualified.
- 11.11 The *City* reserves the right to reduce the pre-qualification threshold of 66% based on the evaluation of submissions received.
- 11.12 The *City* reserves the right to limit the number of pre-qualified proponents to participate in any subsequent invitation to compete for a contract at its sole discretion.

A. INTRODUCTION

With the waters of Discovery Passage at our shoreline and majestic mountains as a backdrop, Campbell River is located at the 50th parallel on the east coast of northern Vancouver Island. We are the third largest city on the island, with a population of approximately 35,000, and the urban service centre and hub community for approximately 60,000 people living and working in our region. Campbell River is home to three First Nations: Wei Wai Kum First Nation (Campbell River Indian Band), We Wai Kai First Nation (Cape Mudge Indian Band), and Homalco First Nation.

B. BACKGROUND

The City of Campbell River has previously conducted a tender process for the Highway 19A Phase III – Civil Works project which was awarded to Wacor Holdings Ltd. The landscaping, related surface features and irrigation systems were specifically excluded from their work so that the City could establish a selected list of pre-qualified specialty landscaping firms.

It is the City's intention to allow Wacor Holdings Ltd. to seek proposals from pre-qualified landscaping contractors to sub-contract under the current agreement between the City and Wacor Holdings Ltd.

Only landscaping firms with the demonstrated landscaping experience of similar size, scope, and complexity shall be considered to participate in a selected invitation to compete as the landscape sub-contractor for Wacor Holdings Ltd. The successful sub-contractor will provide all labour, equipment, supplies and services required to fulfill the Scope of Work as outlined in Section C Scope of Services.

C. SCOPE OF SERVICES

This section provides an overview of the project to which this pre-qualification document is related. Proponents providing submissions for this pre-qualification will be expected to submit the requested information that addresses the aspects of the pre-qualification.

General Overview

A detailed Scope of Work will be provided to the selected pre-qualified proponents but in general the work includes, but is not limited to, acting as the sub-contractor to Wacor Holdings Ltd. to provide all labour, materials, equipment, tools, and services required to provide professional landscaping services for the Highway 19A Phase III Landscaping project.

Work under this assignment includes supply and installation of all surface plantings for a 1 kilometre stretch of Highway 19A extending from Simms Creek pumping station to the Big Rock Boat Ramp site. This will include the natural boundary within the foreshore and several dedicated park spaces and roadway boulevard.

Also included is the complete irrigation package for this same location and provision of all related street and park space furnishings.

This assignment will also include provision of a comprehensive 1 year maintenance Agreement to be entered into directly with the City upon achieving Substantial Performance of the work.

Proponents need to submit to the City, at minimum, the following information:

Submissions

All submissions should be typed including:

- a. A letter of introduction on letterhead signed by an authorized signatory of the proponent.
- b. Organization name.
- c. Address.
- d. Primary contact person.
- e. Telephone number
- f. Email address.
- g. Signed Appendix 1 Landscape Requirements

Company Profile:

- A brief description of your company profile, scope of services offered, company size, year established, areas of expertise, principal fields of activity, and description of services offered.
- b. A brief description of your company's Health and Safety policy with COVID-19 mitigation plans.
- c. Your Environmental Policy.
- d. Your Safety procedures and practices.
- e. Statement of active memberships with all trade, provincial and federal associations.
- f. Statement of all litigations against your company in the past five (5) years, if applicable.
- g. Statement of all regulatory infractions against your company in the past five (5) years, if applicable.
- h. Provide proof of Surety's Consent to Bond and copy of the following documents:
 - Letter from the Proponents bonding company stating the Proponent's total bonding limit, along with their current capacity available at the time of this submission, with respect to obtaining 100% Performance Bond; and 50% Labour & Material Payment Bond for construction value in excess of \$500,000.
 - A "clearance letter" indicating that the Proponent is in WorkSafeBC compliance.
 - A written confirmation statement that your company has in place the insurance policies as specified in MMCD GC 24 for the duration of the project. Copies must be provided upon request.
 - A written confirmation statement that your company has a Health & Safety Manual in place and that all policies will be followed for the duration of the project. A copy must be provided upon request.

Qualifications

- a. List of current employees, years with the company with their title and relevant specialized services and related professional designations.
- b. Specify the Site Superintendent and Certified Horticultural Technician or Landscape Horticulturist (Red Seal) (Appendix 2).
- c. Certified ISA Arborist (Appendix 2).
- d. Certified IIABC Technician (Appendix 2).
- e. Certified Irrigation Contractor
- f. List of all equipment owned by the company.
- g. Listing of current projects underway (Appendix 4).

Experience & References

- a. Submit a minimum of three similar municipal projects along with a brief project description with colour pictures of projects ranging in value between \$300,000 to \$600,000 completed in the last three years.
- b. Provide the contact persons name, phone number, and e-mail address for each of the above
- c. Examples of previous work should be in similar geographic area and climate of Campbell River, BC.

Approach & Methodology

- a. Demonstrated experience in delivering MMCD based contracts.
- b. Prior experience as sub-contractor to civil general contractor.
- c. Roles of horticulture, irrigation technicians, and certified arborist.
- d. Complete description of supply chain including nursery selection, planting material selection, related timing of order, material delivery, handling and storage.
- e. Description of quality control program.
- f. Maintenance programs with examples of annual programs
- g. Warranty provisions

Suppliers

a. Provide complete listing of proposed landscape material suppliers to be used (Appendix 3).

OTHER INFORMATION

The following are attached for reference purposes only:

- a. McElhanney Ltd. Highway 19A Upgrade Landscape Drawings (90% complete).
- b. McElhanney Ltd. Highway 19A Upgrade Irrigation Drawings (100% complete).

Appendix 1

LANDSCAPE REQUIREMENTS

The City of Campbell River is looking to continue the beautification of Highway 19A from Simms Creek pumping station to the Big Rock Boat Ramp site to a standard comparable with previous phases of the Highway 19A corridor improvements. Landscaping is a critical aspect of the project and the City wants to ensure all of the related landscape materials are available when planting is to occur.

There will be no street tree substitution allowed. The sub-contractor is to have purchased and obtained the street trees within one month of the Notice to Proceed being issued by Wacor Holdings Ltd. For this to occur, the Owner or assigned designate with the City's arborist must review and accept the trees prior to purchase. The plantings must have a Certified Horticulturist or Landscape Horticulturist (Red Seal) on site while planting. All plantings must following the BC Landscape Standards guidelines.

Once the trees are purchased, the sub-contractor will ensure the trees are then maintained in a healthy manner until time of planting. Trees purchased are to be of good nursery stock (tree displays, good root development and tree structure) and planted according to ANSI standards. The City and / or Wacor Holdings Ltd. may inspect the trees at any time during the maintenance period prior to planting.

Landscape sub-contractor is to send documentation from supplier that the trees have been purchased and are being maintained. Documentation required within one month of award.

Tree Supplier:
Present Location of Trees:
Responsibility of Tree Maintenance:
I have read and understand the requirements of this Appendix 1 – Landscape Requirements.
Contractor:
Authorized Signature:
Printed Name:

Appendix 2

EXPERIENCE OF SUPERINTENDENT & CERTIFIED HORTICULTURAL TECHNICIAN

Supe	erintendent Name:			
	ifications:			
Expe	rience:			
1.	Dates:			
	Project Name:			
	Responsibility:			
	References:			
2.	Dates:			
	Project Name:			
	Responsibility:			
	References:			

Hort	orticulture Name:					
	Qualifications:					
1.	Dates:					
	Project Name:					
	References:					
2.	Dates:					
	Project Name:					
	References:					

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ERI	MS OF REFERENCE	Page 4 of 7
rbo	orist Name:	
	lifications:	
	Dates:	
	Project Name:	
	Responsibility:	
	References:	
	Dates:	
	Project Name:	
	Responsibility:	
	. ,	
	References:	

TERM	MS OF REFERENCE	Page 5 of 7
Irriga	ation Technician Name:	
1.	Dates:	
	Project Name:	
	responsibility.	
	References:	
2.	Datas	
	Project Name:	
	Responsibility:	
	References:	

Appendix 3

LANDSCAPE MATERIAL SUPPLIERS

Plant Material Supplier:
Street Tree / Tree Supplier if different from above:
Site Furnishings Supplier / Manufacture:
Growing Medium Supplier:
Structural Growing Material Supplier:
Mulch Material Supplier:
Others:

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Appendix 4

TENDERERS CURRENT PROJECTS UNDERWAY

PROJECT	OWNER/ CONTRACT NAME	PHONE NUMBER	WORK DESCRIPTION	VALUE (\$)	% COMPLETE

DESCRIPTION: HIGHWAY 19A UPGRADES PHASE 3

LANDSCAPE WORKS
CAMPBELL RIVER, BC

REISSUED FOR 90% REVIEW

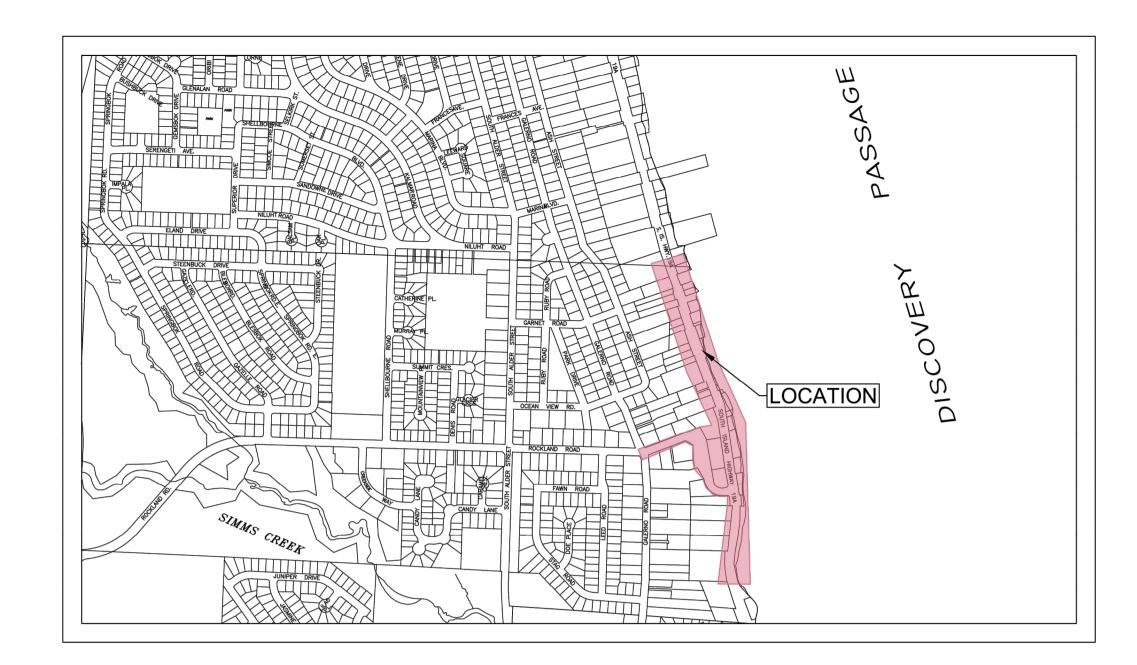
OCT 16, 2020

MCSL Project No.: 2221-49145

Tender No.: T20-01

City PFile No.: 19-XXX

	DRAWING INDEX												
No.	LOCATION/DESCRIPTION	REVISION											
	LANDSCAPING	0	1	2	3	4	5	6	7	8	9		
L-0	SCHEDULES AND MATERIALS												
L-1	LANDSCAPE PLAN												
L-2	LANDSCAPE PLAN												
L-3	LANDSCAPE PLAN												
L-4	LANDSCAPE PLAN												
L-5	LANDSCAPE PLAN												
L-6	LANDSCAPE DETAILS												
	IRRIGATION												
IR-1	IRRIGATION PLAN												
IR-2	IRRIGATION PLAN												
IR-3	IRRIGATION PLAN												
IR-4	IRRIGATION PLAN												
IR-5	IRRIGATION PLAN												
IR-6	IRRIGATION PLAN												
IR-7	IRRIGATION PLAN												



PROJECT LOCATION





1196 Dogwood Street Campbell River BC Canada V9W 3A2 T 250 287 7799

(REISSUED FOR 90% REVIEW)

PLANT IMAGES - REFER TO L1-L5 FOR LOCATIONS















PAGODA TREE LOCUST





SNOWBELL



HAWTHORN



HORSECHESTNUT JAPANESE TUPELO LAVALLE

SHRUBS

CATALPA

NORTHERN





DOGWOOD









ROSE







SEQUOIA





PERENNIALS

BOG ROSEMARY



AMERICAN **BEACH PEA** SEAROCKET









U/G TELEPHONE

— всн

U/G HYDRO

NATURAL GAS







PLANT SCHEDULE FOR L1-L5

SYMBOL	QTY	Y KEY BOTANICAL NAME		COMMON NAME	SIZE	SPACING	HT	
	TREES							
	1	CS	CATALPA SPECIOSA	NORTHERN CATALPA	50 mm B&B	N/A	6 m	
	1 SO SOPHORA JAPONICA		JAPANESE PAGODA TREE	40 mm B&B	N/A	7 m		
	1	GT	GLEDITSIA TRIACANTHOS	HONEY LOCUST	50 mm B&B	N/A	7m	
	1	АН	AESCULUS HIPPOCASTANUM	HORSECHESTNUT	50 mm B&B	N/A		
	6	SJ	STYRAX JAPONICUS	YRAX JAPONICUS JAPANESE SNOWBELL		7m		
	8	NS	NYSSA SYLVATICA	TUPELO	50 mm B&B	10m		
	7	CL	CRATAEGUS × LAVALLEI LAVALLE HAWTHORN		50 mm B&B	7.8m		
	6	SG	SEQUOIADENDRON GIGANTEUM	GIANT SEQUOIA	50 mm B&B	N/A	13m	
	SHRUBS 8	GROUNE	OCOVERS					
	209	AP	ANDROMEDA POLIFOLIA	BOG ROSEMARY	#2 POT	0.5m	0.45 m	
	26	cs	CORNUS SERICEA	RED OSIER DOGWOOD	#2 POT	1m	2.0 m	
	84	GA	GAULTHERIA SHALLON	SALAL	#1 POT	0.5 m	2.0 m	
	42	RN	ROSA NUTKANA	NOOTKA ROSE	#2 POT	1m	1 m	
	55	SD	RUDBECKIA FULGIDA 'GOLDSTURM'	HARDHACK SPIREA	#2 POT	1m	1 m	
	PERENNI <i>A</i>	ALS						
	572	AM	ACHILLEA MILLEFOLIUM	YARROW	#1 POT	0.5 m	0.6 m	
	380	SH	HEMEROCALLIS	GOLDSTURM CONEFLOWER	#1 POT	0.5 m	0.6m	
	GRASSES							
	110	CA	CAREX PANSA	SAND DUNE SEDGE	#1 POT	0.5 m	0.6 m	
	260	EM	ELYMUS MOLLIS	DUNE GRASS	#1 POT	0.5 m	1.5 m	

PLANT SCHEDULE FOR REMEDIATION SECTION

QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	HT
SHRUBS 8	& GROUNDCOVERS				
307	ROSA NUTKANA	NOOTKA ROSE	PLUG	1.5 m	1 m
556	RUBUS PARVIFLORUS	THIMBLEBERRY	PLUG	0.6 m	1 m
560	RUBUS SPECTABILIS	SALMONBERRY	PLUG	0.6 m	1 m
83	SALIX LASIANDRA	WILLOW	PLUG	0.6 m	0.6 m
2	SAMBUCUS RACEMOSA L	COASTAL RED ELDERBERRY	PLUG	3.0 m	6 m
PERENNIA	ALS				
650	LATHYRUS JAPONICUS (MARITIMUS)	BEACH PEA	PLUG	0.6 m	0.3 m
450	GRINDELIA SQUARROSA	ENTIRE-LEAVED GUMWEED	PLUG	0.6 m	0.8 m
GRASSES					
1520	ELYMUS MOLLIS	DUNE GRASS	PLUG	0.8 m	1.5 m

VEGETATION REMOVALS AND REMEDIATION

20/10/16

19/10/04

19/09/20

INVASIVE SPECIES SUCH AS HIMALAYAN BLACKBERRY AND ENGLISH IVY ARE TO BE REMOVED 450mm DEPTH. VERTICAL ROOT BARRIER MEASURES, PLANT W/ NATIVE VEGETATION.

NOTE: ALL PLANTING SHALL BE MAINTAINED AND MONITORED FOR A TIME PERIOD AS DIRECTED BY A QEP.

REISSUED FOR REVIEW - 90% DESIGN

ISSUED FOR REVIEW - 90% DESIGN (INTERNAL)

ISSUED FOR REVIEW - 90% DESIGN

REVISION

SITE FURNITURE IMAGES AND MANUFACTURER / SUPPLIER INFORMATION

MANUFACTURER INFO: AVAILABLE FROM: (OR APPROVED EQUAL)

WISHBONE SITE FURNITURE WISHBONE SITE FURNITURE #210-270990 GLUCESTER WAY LANGLEY, BC

PHONE NUMBER: 1-604-626-0476 TOLL FREE: 1-866-626-0476

RUTHERFORD PARK BENCH - ANGLED LEG MODEL NO: RAL-6

OPTIONS: BACKED BENCH FRAME - BLACK POWDERCOAT FINISH

RECYCLED PLASTIC LUMBER COLOUR - SAND 1829 mm

LENGTH: MOUNTING: SURFACE MOUNT - REFER TO **MANUFACTURER SPECIFICATIONS**

MODENA CURVED TOP WASTE RECEPTACLE MODEL NO: MCTR-21 OPTIONS:

MOUNTING: SURFACE MOUNT - REFER TO MANUFACTURER **SPECIFICATIONS**





MANUFACTURER

SPECIFICATIONS



NEW YORK CHAIR MODEL NO: CN

RECYCLED PLASTIC LUMBER OPTIONS: **COLOUR - SKYBLUE** SURFACE MOUNT - REFER TO MANUFACTURER **SPECIFICATIONS**

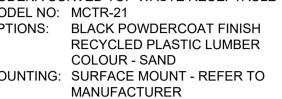


HAND WASH STATION WITH BOTTLE FILLER, DRINKING FOUNTAIN AND PET FOUNTAIN

MODEL NO: 7228

OPTIONS: POWDER COATED / TEXTURED FAIRWAY GREEN

MOUNTING: C/W A CONCRETE PEDESTAL, ANCHORING AND SELF DRANING FROST-RESISTANT VALVE AT THE SEVICE ELBOW, CONTRACTOR TO SUBMIT SHOP DRAWINGS OF FOUNTAIN





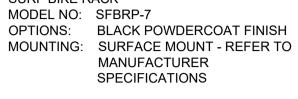


MANUFACTURER

SPECIFICATIONS



SURF BIKE RACK MANUFACTURER



SITE FURNITURE SCHEDULE - REFER TO L1 - L5 FOR LOCATIONS

Key	ltem	Qty	Manufacturer	Model # / Type	Color / Materials	Notes
	Rutherford Park Bench - Angled Leg	12	Wishbone	RAL-6	Powder coated/black, recycled plastic/sand	Surface (Refer to Manufacturer Specifications)
	Modena Curved Top Waste Receptacle	6	Wishbone	MCTR-21	Powder coated/black, recycled plastic/sand	Surface (Refer to Manufacturer Specifications)
	Parker Picnic Table	6	Wishbone	PKPTWC-6	Powder coated / Black aluminum frame	Surface (Refer to Manufacturer Specifications)
	New York Chair	9	Wishbone	CN	Skyblue / recycled plastic/sand	Surface (Refer to Manufacturer Specifications)
ø	Modena LED Bollard	28	Wishbone	MLB-37	Powder coated aluminum frame	Surface (Refer to Manufacturer Specifications)
•	Surf Bike Rack	3	Wishbone	SFBRP-7	Powder coated / Black	Surface (Refer to Manufacturer Specifications)
	Interpretive Signage Kiosk	1				See Detail 5 / L-6
$\sim\sim$	Hand Wash Station with Bottle Filler, Drinking Fountain and Pet Fountain (Big Rock Park)	1	Dog-on-it Parks	7228	Powder coated / Textured Fairway Green	c/w a concrete pedestal, anchoring and self draning frost-resistant valve at the sevice elbow, contractor to submit shop drawings of fountain and proposed installation according to manufacturer's recommendations

SITE FURNITURE NOTES: ALL SITE FURNISHING LOCATIONS TO BE COORDINATED AND ACCEPTED BY THE CONTRACT ADMINISTRATOR PRIOR TO INSTALLATION.

NEW MEMORIAL PLAQUES TO BE EMBEDDED IN NEW SITE FURNITURE LOCATIONS - REFER TO L1 - L5 FOR LOCATIONS ONLY



1 SCALE:

19/05/03

LJ

N.T.S.

03 APR. 56 - 28 JUN

#12 BENCH

OF CAMPBELL RIVER. EXISTING PLAQUE IMAGES ARE FOR REFERENCE TO CONTENT ONLY.

NEW PLAQUES WILL BE SPECIFIED BY THE CITY

EAGLE CARVING #11 BENCH UTILITY NOTES FOR L1-L5

PLANTING NEAR UTILITIES

- 1.1 The contractor will contact BC 1 Call utility location agency no less than 48 hours prior to construction to locate and stake all underground utilities.
- 1.2 Prior to installation of plant material, the consultant will inspect and approve all staked tree locations with regards to utilities as located by utility location
- 1.3 Where possible, trees shall be set back a minimum distance, measured from the centre of the tree trunk, from above and below grade utilities and property lines as follows:

Distance from Light Standards/Power Hardware	6.0m
Distance from Steel & Wooden Utility Poles	3.0m
Distance from Fire Hydrants	2.0m
Distance from Stop Signs	3.5m
Distance from Yield Signs	3.5m
Distance from Transit Zones	3.5m*
Distance from Other Signs	2.0m
Distance from Private Property	1.0m
Distance from Shallow Underground Utilities:	1.2m
Distance from Underground Street Light conduit	
& Irrigation Main	0.6m
N.U.Lno trees within easement	
Distance from Gas or Oil ROW	Contact Utility
Distance from Deep Underground Utilities	1.2m
Distance from Sanitary and Storm Sewers	1.2m
Distance to Sanitary and Storm Sewers, Manholes	
& Valve Boxes	1.2m
Distance from Driveways	1.5m
Distance from Road Intersection	7.0m
Distance from Curb Face	1.0m
Distance from Sidewalk	0.85m

OPEN DITCH

CATCH BASIN

FIRE HYDRANT

WATER VALVE

AN. SEWER MANHOLE

● ■ SMH

SIDE INLET TOP INLE

HYD

WV

Distance from Buildings - Fasigiate (Columnar Tree) Distance from Buildings - regular crown tree 3.0-5.0m Distance from Water Mains 1.2m Distance from Catch Basins 1.5m Distance from Sewer Service Boxes 1.5m

IN MEMORY OF JOHN BRANDON

HE WAS AT PEACE WHEN FISHING IN GOD'S STREAMS AND OCEANS

#14) BENCH

Campbell

BETTY MAE "BETSY" FINNIE

L.D. "LAWRIE" ROLAND

SIT AWHILE

ENJOY THE VIEW

#13 TABLE

- * Ensure trees do not create sightline obstructions for vehicles approaching transit zones. Note: Distances from overhead power utilities shall be as per the requirements established by the Utility Authority.
- * Distances less than indicated above, are at the discretion of the City of Campbell River Note: Setback distances apply to both Boulevards and Medians.
- 1.4 Maintain the minimum defined setbacks from utilities for all excavations.
- 1.5 All tree / shrub excavation closer then the minimum distance to underground utilities shall be hand-dug. The contractor will be responsible for notifying the consultant and affected utility representatives to review and approve all hand-dug excavations. Affected utility representatives must be present to supervise all hand-dug excavations.
- 1.6 Prevent damage to fencing, plant materials, natural features, benchmarks, buildings, pavement, curbs, culverts, and utilities, and make good any changes.
- 1.7 No metal tree stakes to be used within one (1) meter of a power trench.

McElhanney

McElhanney Ltd.

ALL UTILITY LOCATIONS ARE TO BE VERIFIED PRIOR TO PROCEEDING WITH CONSTRUCTION. ALL UTILITY LOCATIONS ARE TO BE FLAGGED, REVIEWED AND APPROVED IN CONJUNCTION WITH PROPOSED TREE LOCATIONS.

GENERAL AND PLANTING NOTES FOR L1-L5:

1. LANDSCAPE SHALL CONFORM TO: DESIGN STANDARDS IN SECTION 8, LANDSCAPING. OF THE CITY OF CAMPBELL RIVER DESIGN STANDARDS CITY OF CAMPBELL RIVER SECTION III SUPPLEMENTARY SPECIFICATIONS MMCD PLATINUM EDITION CANADIAN LANDSCAPE STANDARD, OFFICIAL COMMUNITY PLAN BYLAW NO. 3475 AND THE DEVELOPMENT PERMIT GUIDELINES.

oving Huseand, Father, Friend

#15) TABLE

- 2. RELEVANT STANDARD DETAILS IN SECTION IV SUPPLEMENTARY STANDARD DRAWINGS INCLUDE: CR-L-102 SHRUB IN PLANTING BED, CR-L-103 TREE PLANTING -GRASS BOULEVARD APPLICATION
- 3. EXISTING IRRIGATION SYSTEM TO BE REMOVED AND NEW UNDERGROUND IRRIGATION SYSTEM TO BE INSTALLED, SEE IRRIGATION DWGS.

OF THEIR USE OF THESE DRAWINGS

NOT FOR CONSTRUCTION

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CCR DWG#

CCR19-501-L-0

2221-49145

SHEET 1 OF 7

CITY OF CAMPBELL RIVER

SCHEDULES AND MATERIALS

HIGHWAY 19A UPGRADE

REV. 5

ISSUED FOR REVIEW - 50% DESIGN 19/05/03 **CURB & GUTTER** UTILITY POLE **-O**- UP **-O**- UP 19/05/03 ISSUED FOR REVIEW - 50% DESIGN (INTERNAL) 19/03/08 SIDEWALK **EXISTING** LEGEND DESIGN **EXISTING** LEGEND DESIGN EXISTING LEGEND DESIGN MD 19/05/03 CAMPBELL RIVER, BC

O O SMH

SIDE INLET TOP INL

 \mathbf{Q}_{HYD} HYD

⋈ W∨

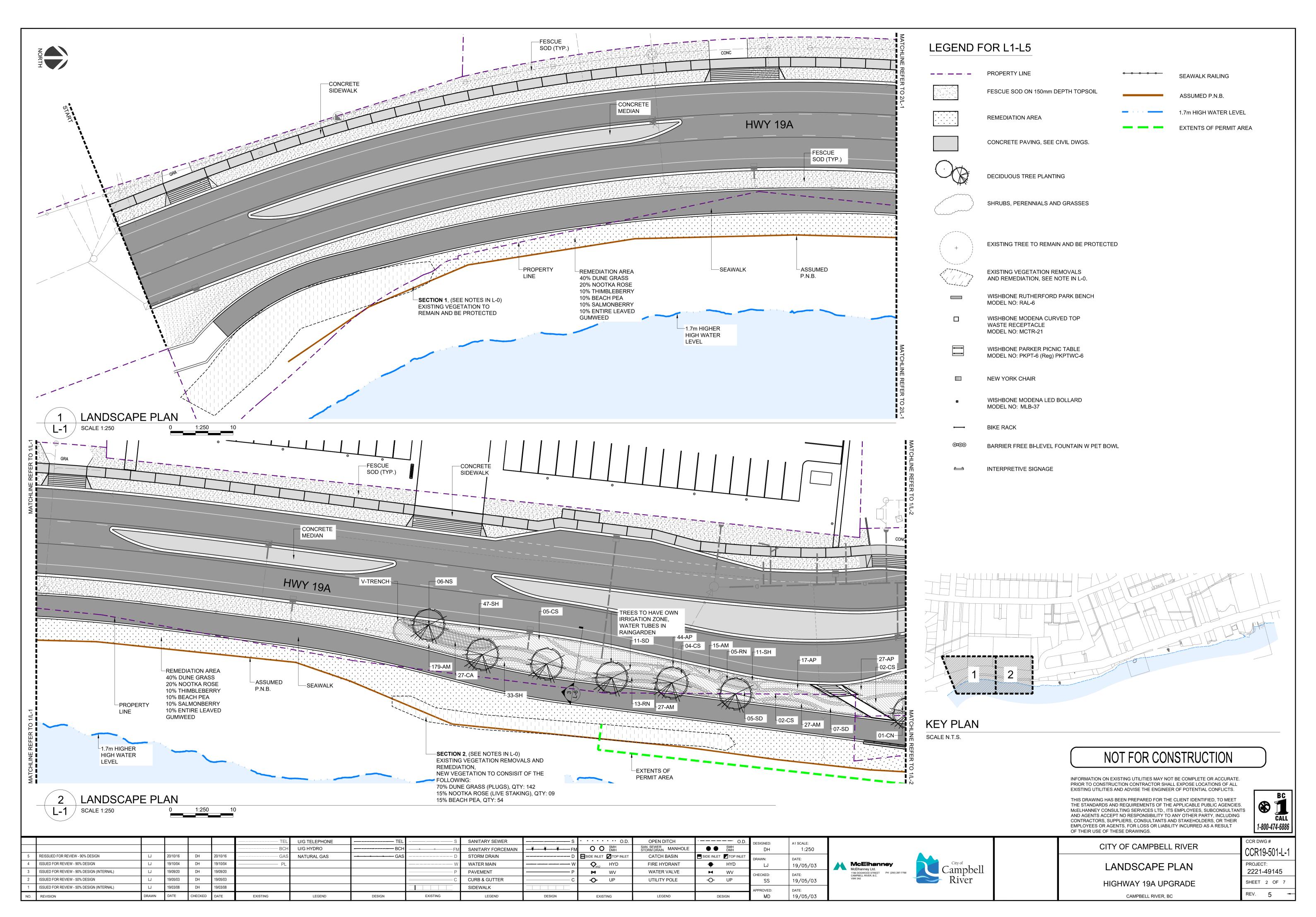
SANITARY SEWER

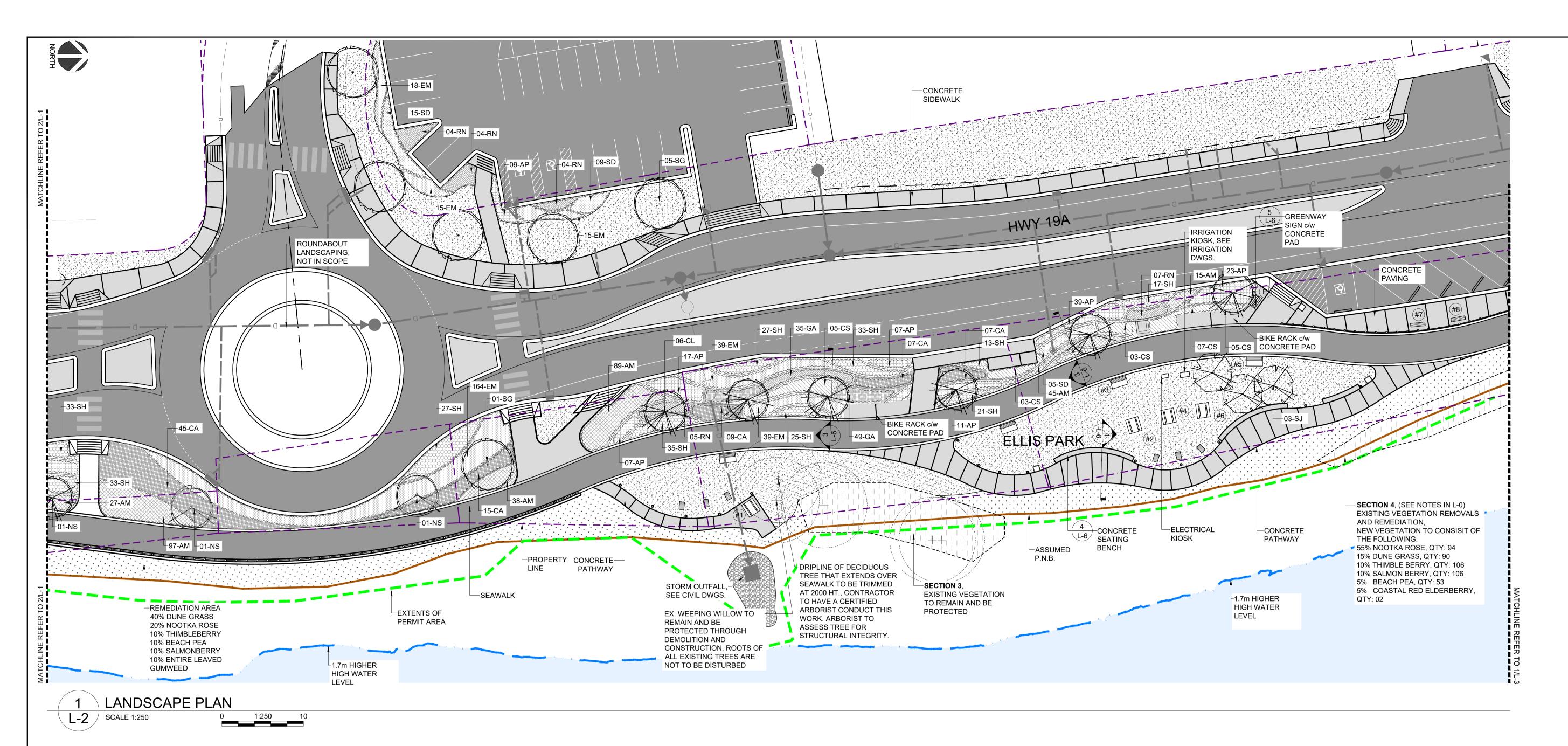
STORM DRAIN

WATER MAIN

PAVEMENT

SANITARY FORCEMAIN





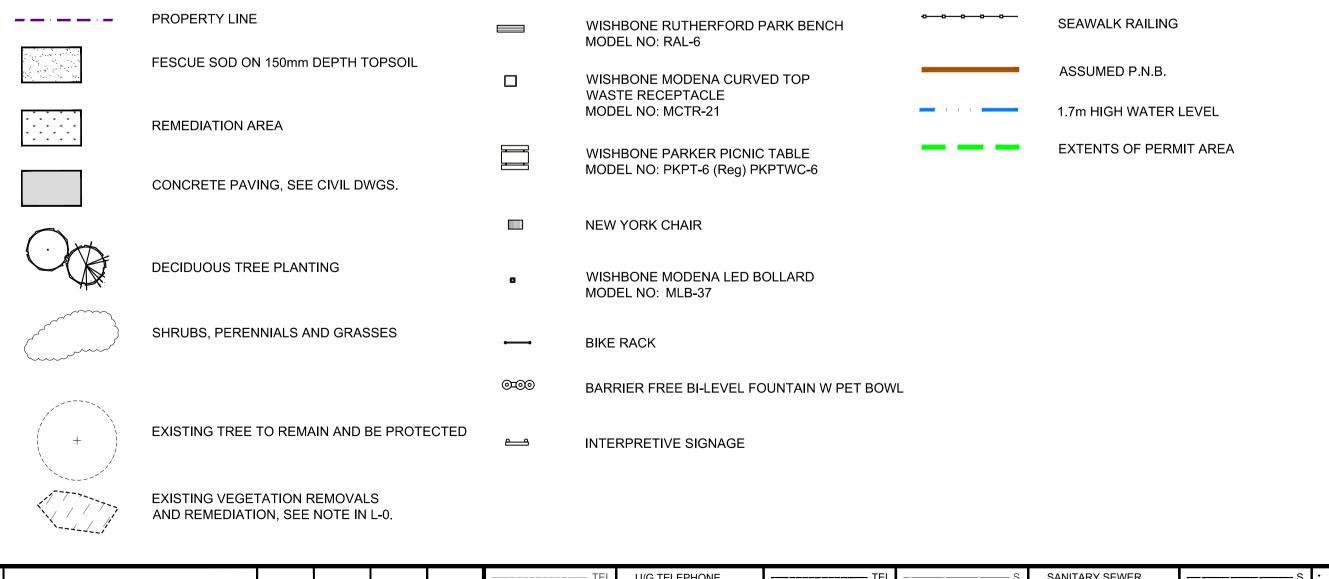
LEGEND FOR L1 AND L5

NO. REVISION

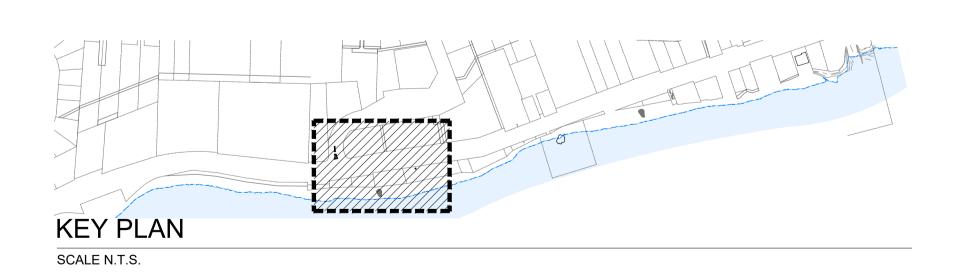
DRAWN DATE

CHECKED DATE

EXISTING



LEGEND



NOT FOR CONSTRUCTION

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						TEL	U/G TELEPHONE	TEL	S	SANITARY SEWER	s	· · · · · · · · O.D.	OPEN DITCH	· O.D.	DESIGNED:	A1 SCALE:
						ВСН	U/G HYDRO	———— ВСН	FM	SANITARY FORCEMAIN		O O SMH	SAN. SEWER STORM DRAIN MANHOLE	● ● SMH DMH	DH	1:250
5	REISSUED FOR REVIEW - 90% DESIGN	LJ	20/10/16	DH	20/10/16		NATURAL GAS	GAS	D	STORM DRAIN	D	SIDE INLET TOP INLET	CATCH BASIN	SIDE INLET TOP INLET	DRAWN:	DATE:
4	ISSUED FOR REVIEW - 90% DESIGN	LJ	19/10/04	DH	19/10/04	PL				WATER MAIN	W	∙Ç _{HYD} HYD	FIRE HYDRANT	→ HYD	LJ	19/05/03
3	ISSUED FOR REVIEW - 90% DESIGN (INTERNAL)	LJ	19/09/20	DH	19/09/20				——— Р	PAVEMENT	Р	⋈ WV	WATER VALVE	₩ WV	CHECKED:	DATE:
2	ISSUED FOR REVIEW - 50% DESIGN	LJ	19/05/03	DH	19/05/03				С	CURB & GUTTER	с	-O- UP	UTILITY POLE	- O - UP	SS	19/05/03
1	ISSUED FOR REVIEW - 50% DESIGN (INTERNAL)	LJ	19/03/08	DH	19/03/08					SIDEWALK					ADDDOVED.	DATE

EXISTING

DESIGN

EXISTING

LEGEND

DESIGN

MD

19/05/03

DESIGN





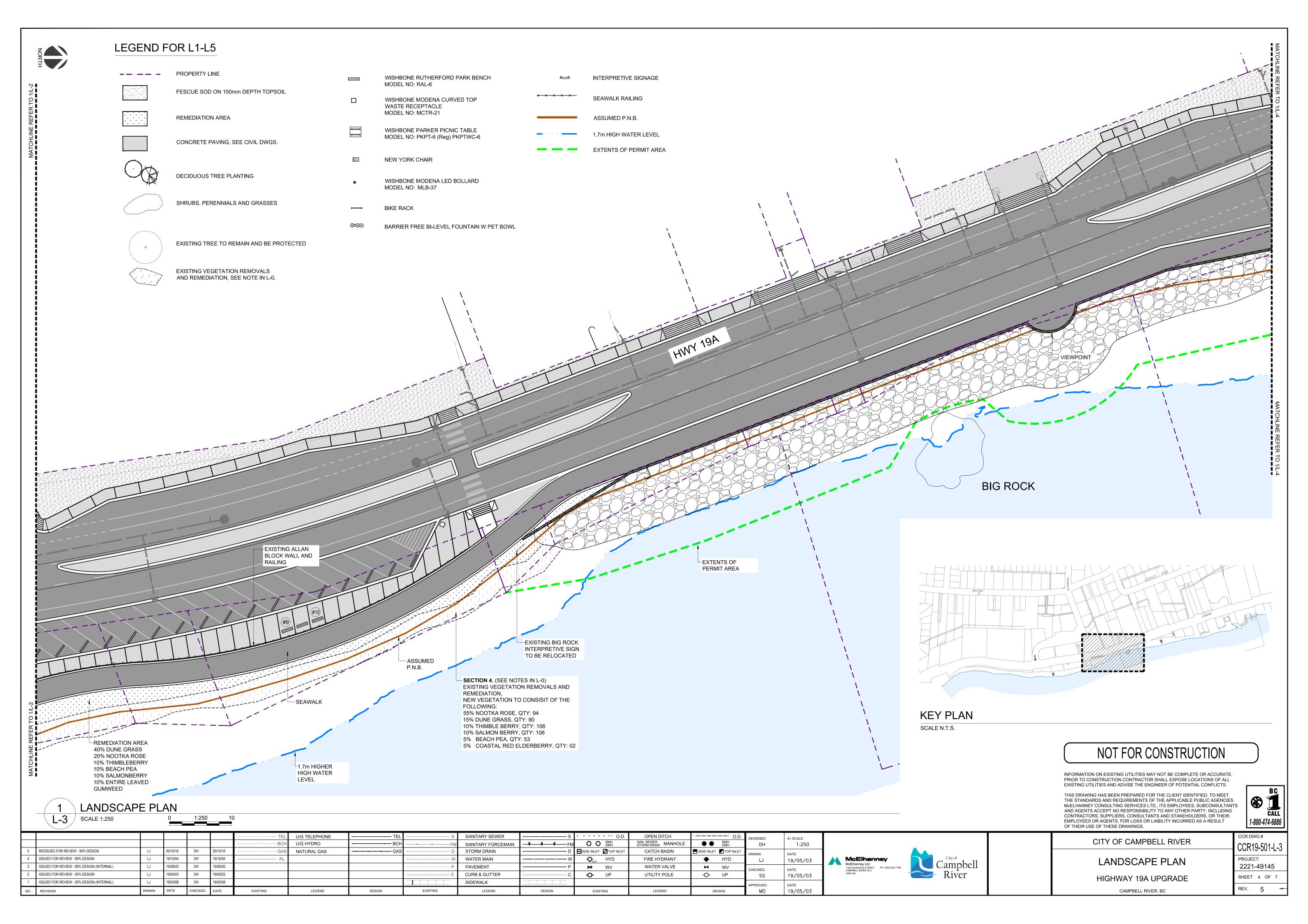
CITY OF CAMPBELL RIVER

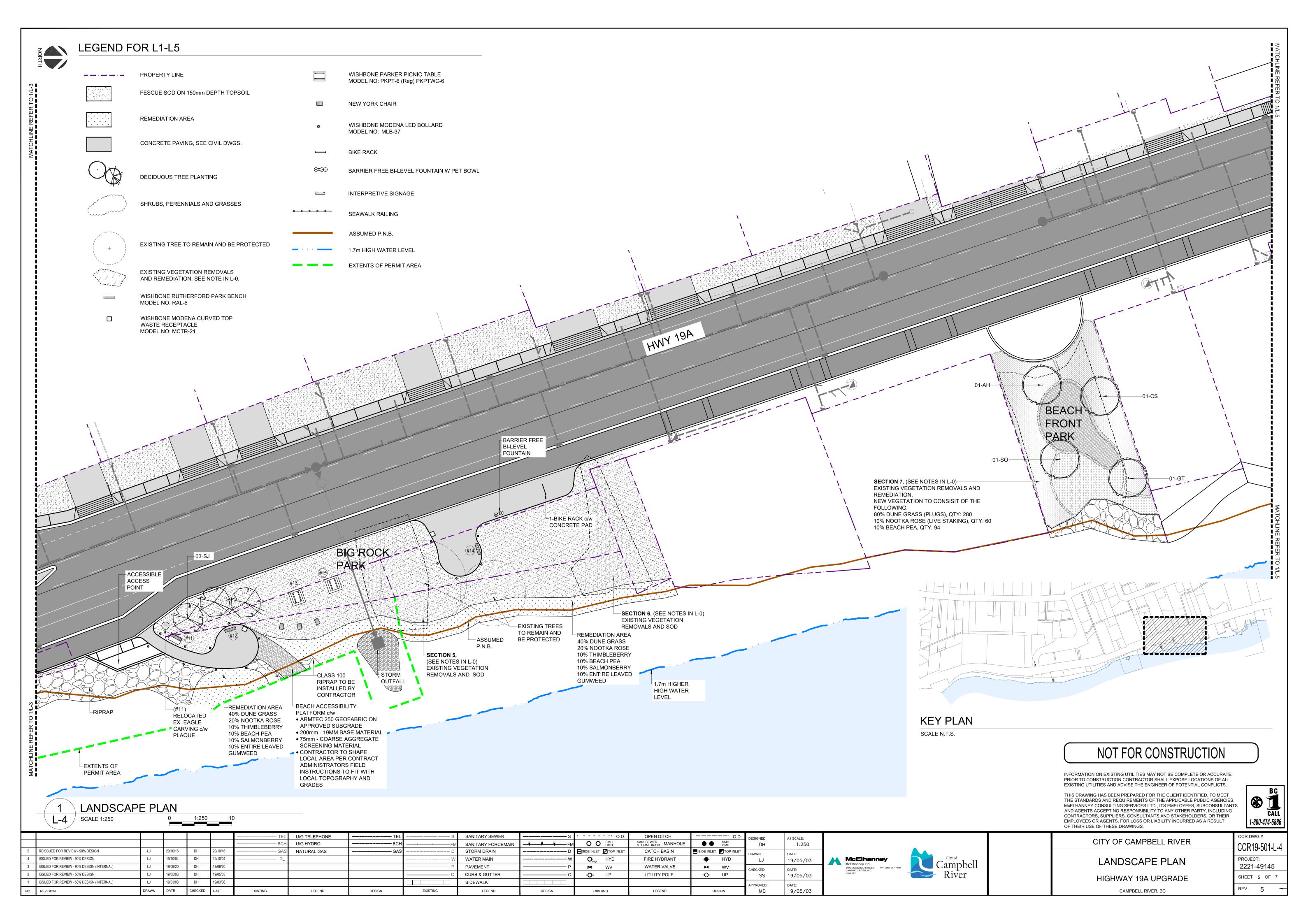
LANDSCAPE PLAN

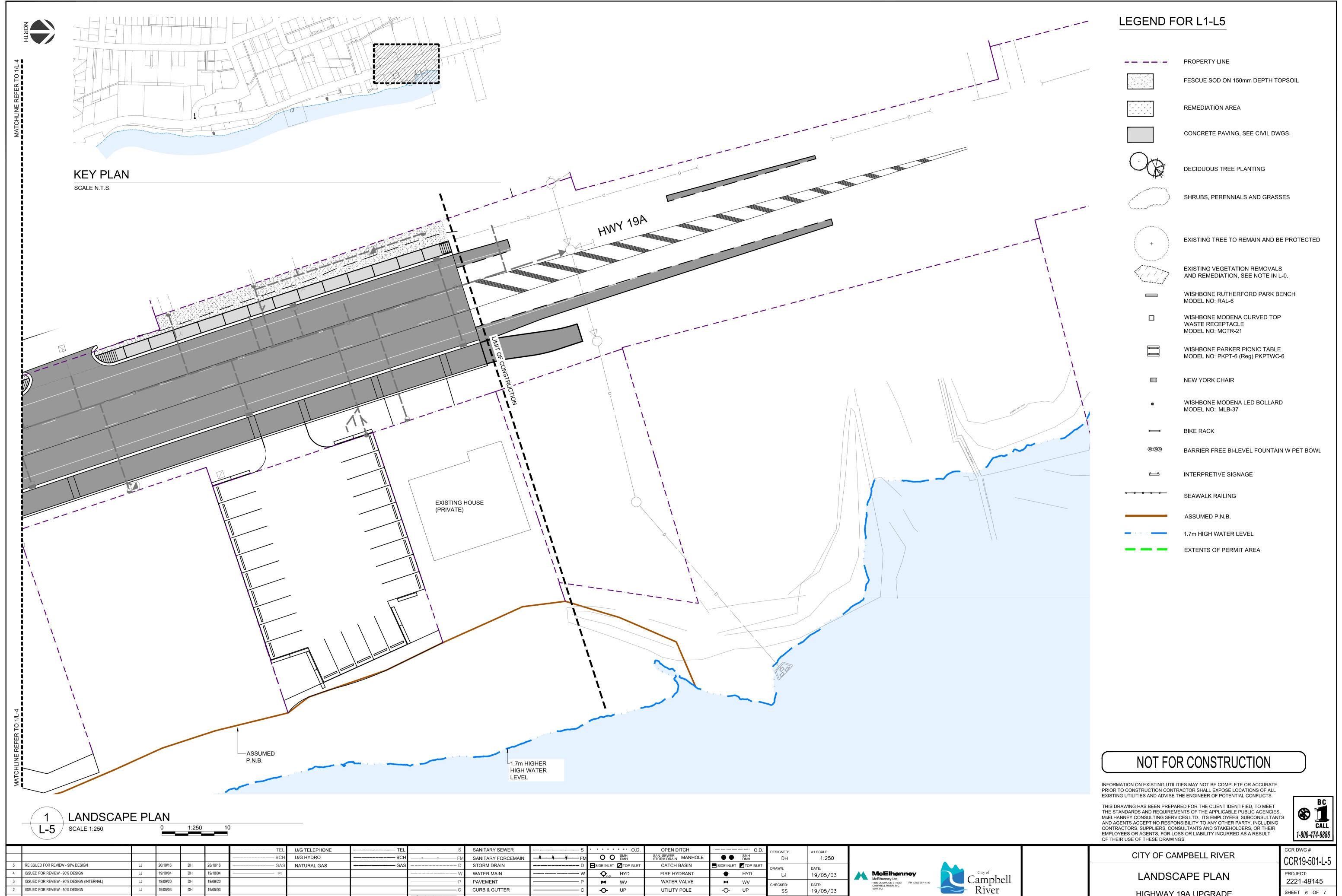
HIGHWAY 19A UPGRADE

CAMPBELL RIVER, BC

CCR DWG #
CCR19-501-L-2
PROJECT:
2221-49145
SHEET 3 OF 7
REV. 5







-O- UP

EXISTING

LEGEND

DESIGN

DESIGN

SIDEWALK

LEGEND

EXISTING

ISSUED FOR REVIEW - 50% DESIGN (INTERNAL)

NO. REVISION

19/03/08

EXISTING

LEGEND

DESIGN

CHECKED DATE

DATE

19/05/03

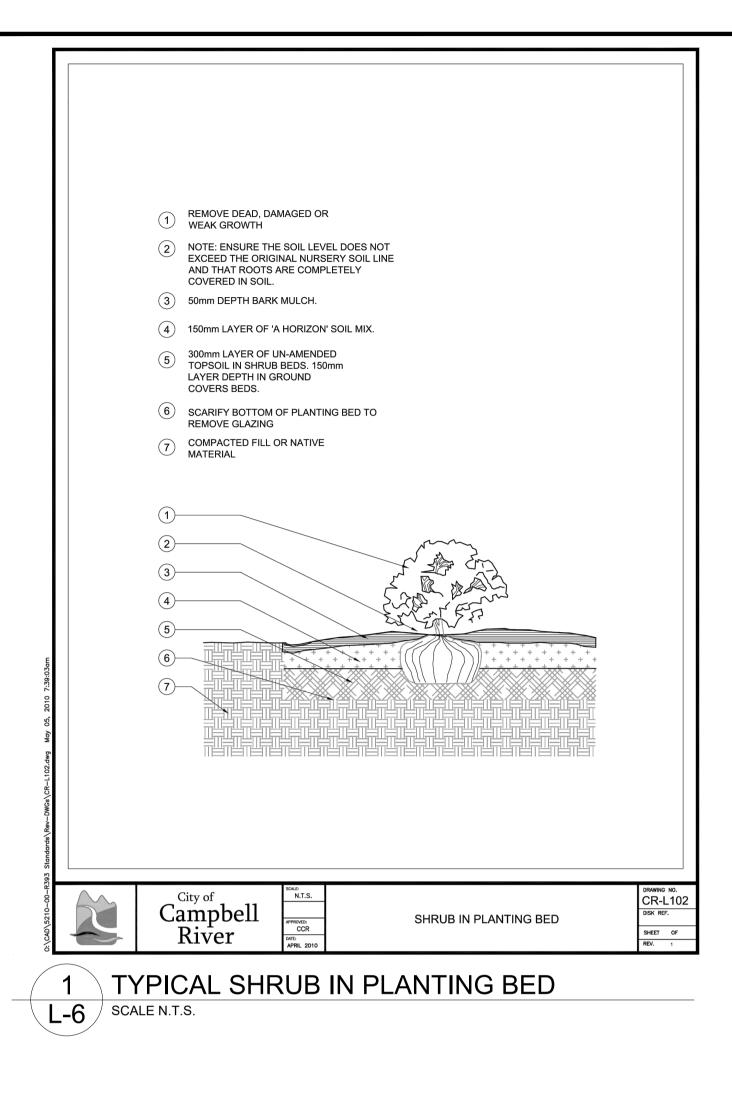
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MD

SHEET 6 OF 7 REV. 5

HIGHWAY 19A UPGRADE

CAMPBELL RIVER, BC

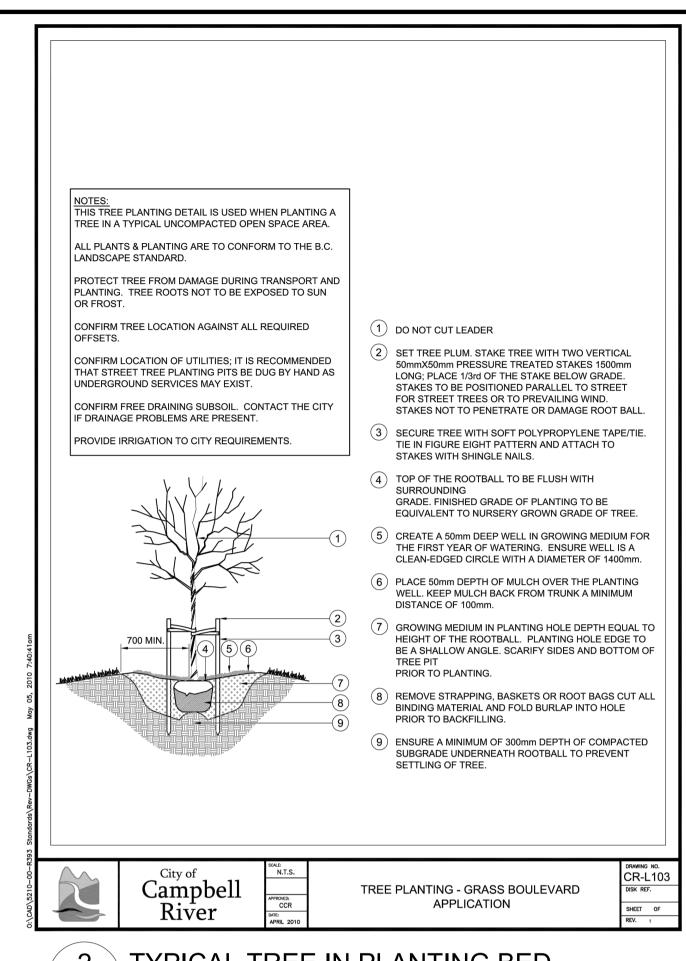


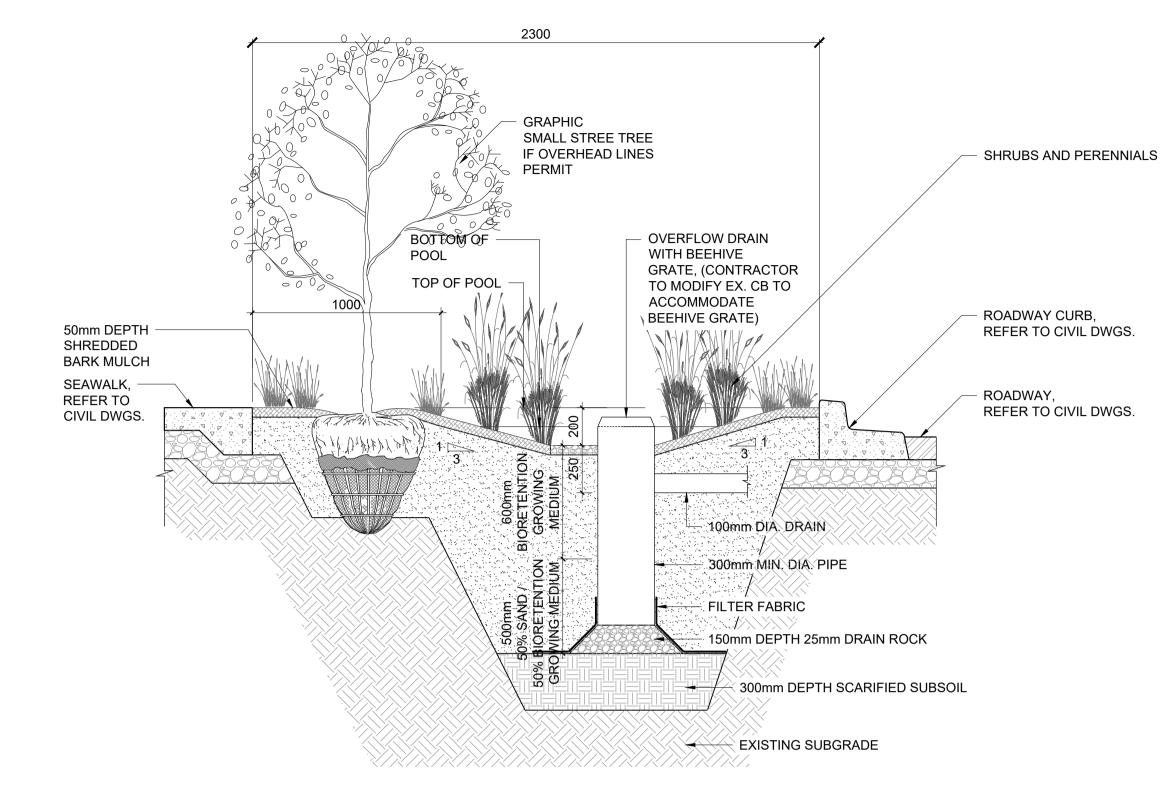
CONCRETE BENCH - SECTION

L-6 /

SSUED FOR REVIEW - 50% DESIGN (INTERNAL)

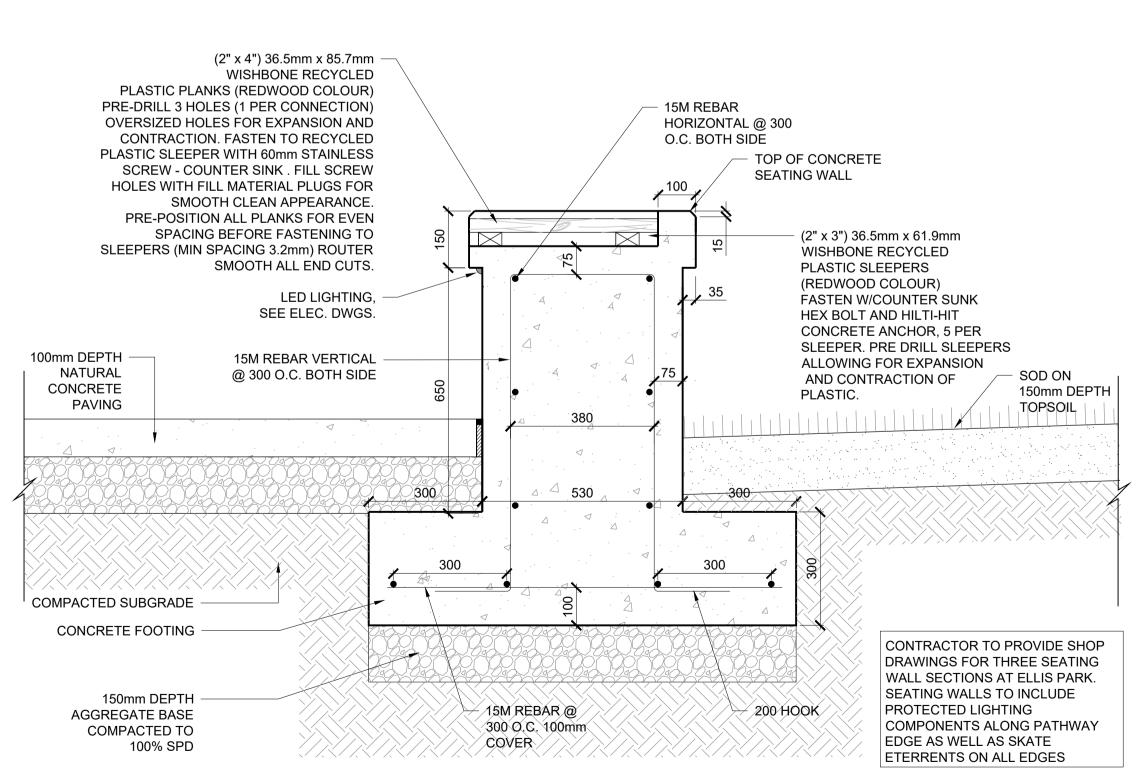
SCALE 1:10

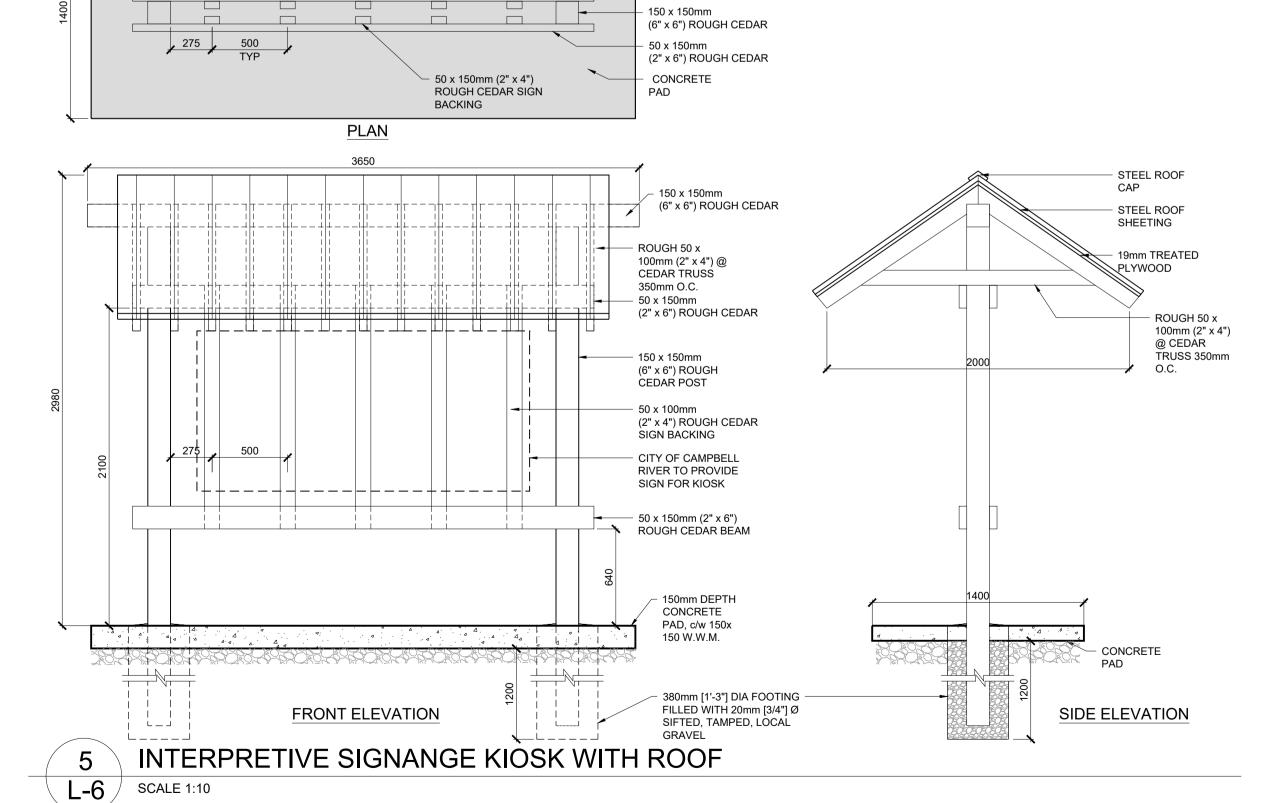




2 TYPICAL TREE IN PLANTING BED L-6 SCALE N.T.S.

TYPICAL RAIN GARDEN SCALE 1:20





19/05/03

MD

DESIGN

NOT FOR CONSTRUCTION

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1-800-474-6886

CCR DWG#

							U/G TELEPHONE	 ss	SANITARY SEWER	ss	· · O.D.	OPEN DITCH	· — · O.D.	DESIGNED:	A1 SCALE:
						-ш	U/G HYDRO	 —	SANITARY FORCEMAIN	— ₩ —FN	O O SMH	SAN. SEWER STORM DRAIN MANHOLE	● ● SMH DMH	DH	AS SHOWN
5	REISSUED FOR REVIEW - 90% DESIGN	LJ	20/10/16	DH	20/10/16		NATURAL GAS	 	STORM DRAIN	—D	SIDE INLET TOP INLET	CATCH BASIN	SIDE INLET TOP INLET	DRAWN:	DATE:
4	ISSUED FOR REVIEW - 90% DESIGN	LJ	19/10/04	DH	19/10/04	PL		w W	WATER MAIN		∙Ç _{HYD} HYD	FIRE HYDRANT	→ HYD	LJ	19/05/03
3	ISSUED FOR REVIEW - 90% DESIGN (INTERNAL)	LJ	19/09/20	DH	19/09/20			P	PAVEMENT	——— Р	⋈ WV	WATER VALVE	⋈ WV	CHECKED:	DATE:
2	ISSUED FOR REVIEW - 50% DESIGN	LJ	19/05/03	DH	19/05/03			С	CURB & GUTTER	с	-O - UP	UTILITY POLE	-O- UP	SS	19/05/03
														4	

SIDEWALK

DESIGN

EXISTING

McElhanney McElhanney Ltd.



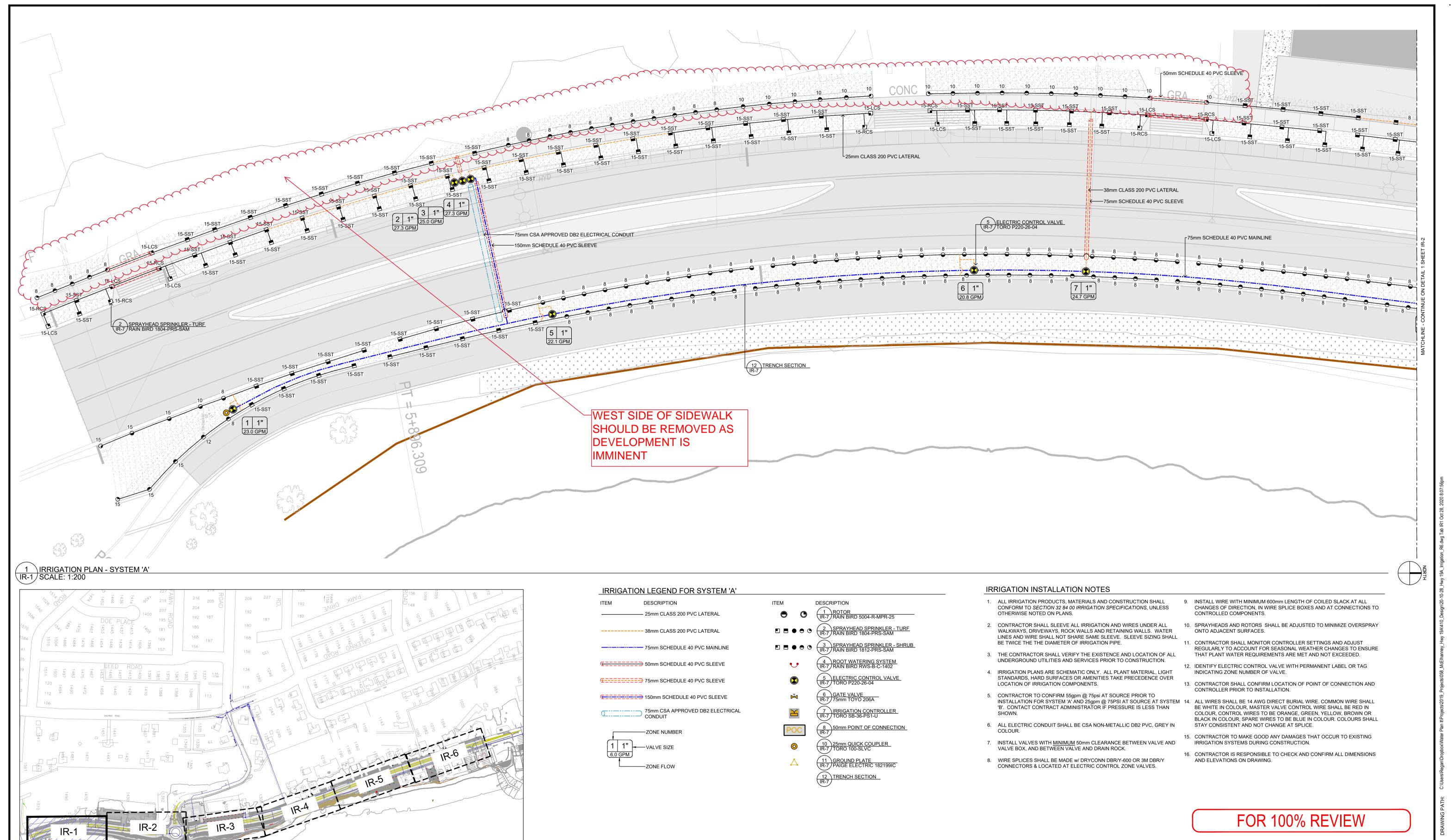
LANDSCAPE DETAILS

CITY OF CAMPBELL RIVER

HIGHWAY 19A UPGRADE

CAMPBELL RIVER, BC

CCR19-501-L-6 PROJECT: 2221-49145 SHEET 7 OF 7 REV. 5

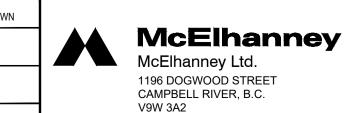


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	2 KEY PLAN R-1 N.T.S.															
						— т— —	U/G TELUS	T	s	SANITARY SEWER	—— s ——		SWALE		DESIGNED:	A1 SCALE:
						c	U/G SHAW	c	FM		FM	0 0	SAN. SEWER STORM DRAIN MANHOLE	• •	RH	AS SHOWN
						— U /G— —	U/G HYDRO	— U /G— —	- D $-$ D	STORM DRAIN	— — D — —	☐SIDE INLET ☐TOP INLET	CATCH BASIN	SIDE INLET TOP INLET	DRAWN:	DATE:
						— —E— —	OVERHEAD HYDRO	— —E — —	—w	WATER MAIN	—-— w—-—	\Diamond	FIRE HYDRANT	•	RH	20/10/28
2	FOR 100% REVIEW	RH	20/10/26	RH	20/10/26	G	NATURAL GAS	G		PAVEMENT		\bowtie	WATER VALVE	H	CHECKED:	DATE:
1	FOR 95% REVIEW	RH	20/01/24	RH	20/01/24					CURB & GUTTER		-	UTILITY POLE	•	RH	20/10/28
0	FOR 90% REVIEW	RH	19/10/15	RH	19/10/15					SIDEWALK			GUY LINE ANCHOR		APPROVED:	DATE:
NO.	REVISION	DRAWN	DATE	CHECKED	DATE	EXISTING	LEGEND	DESIGN	EXISTING	LEGEND	DESIGN	EXISTING	LEGEND	DESIGN	RH	20/10/28



PH (250) 287-7799



WATERPLANIT

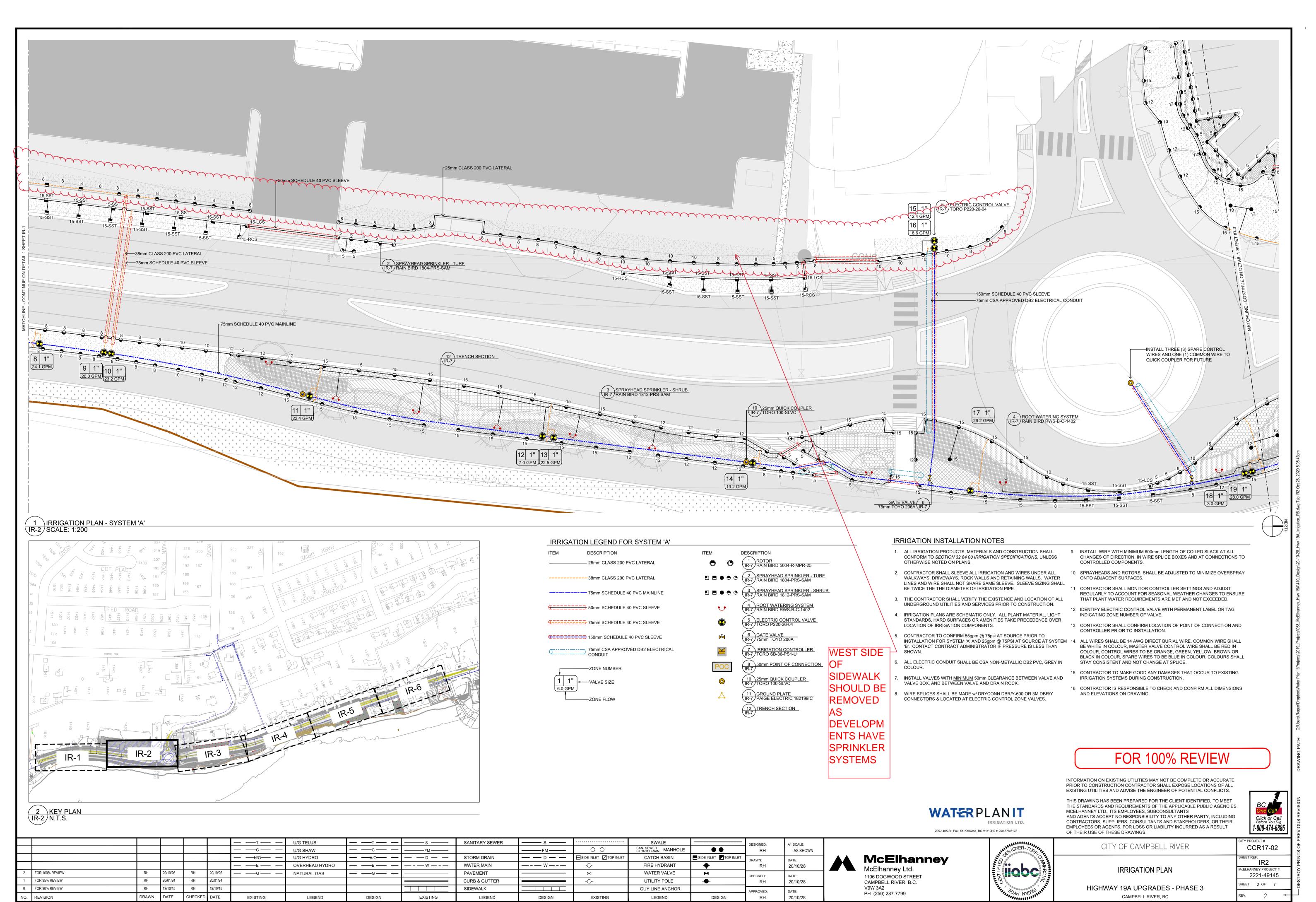
CITY OF CAMPBELL RIVER

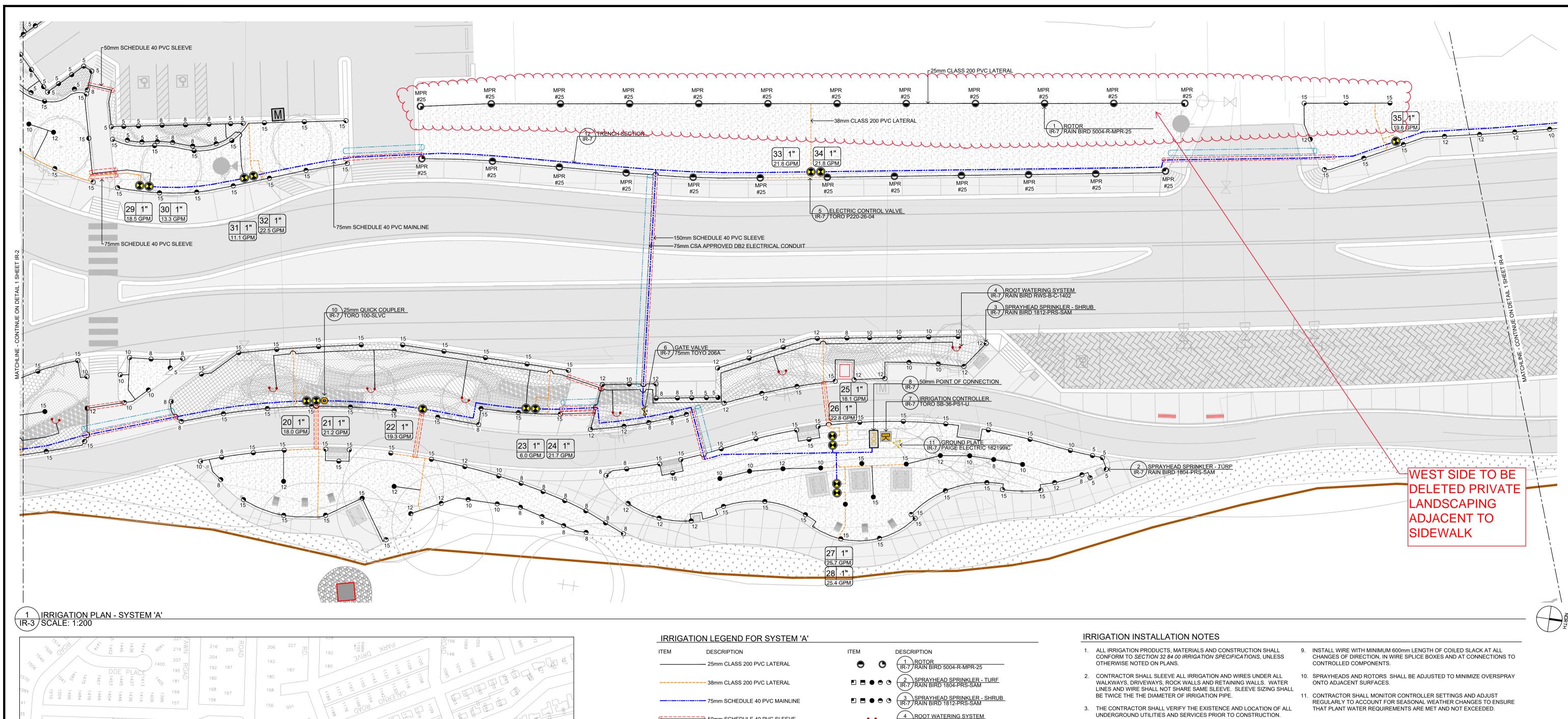
CAMPBELL RIVER, BC

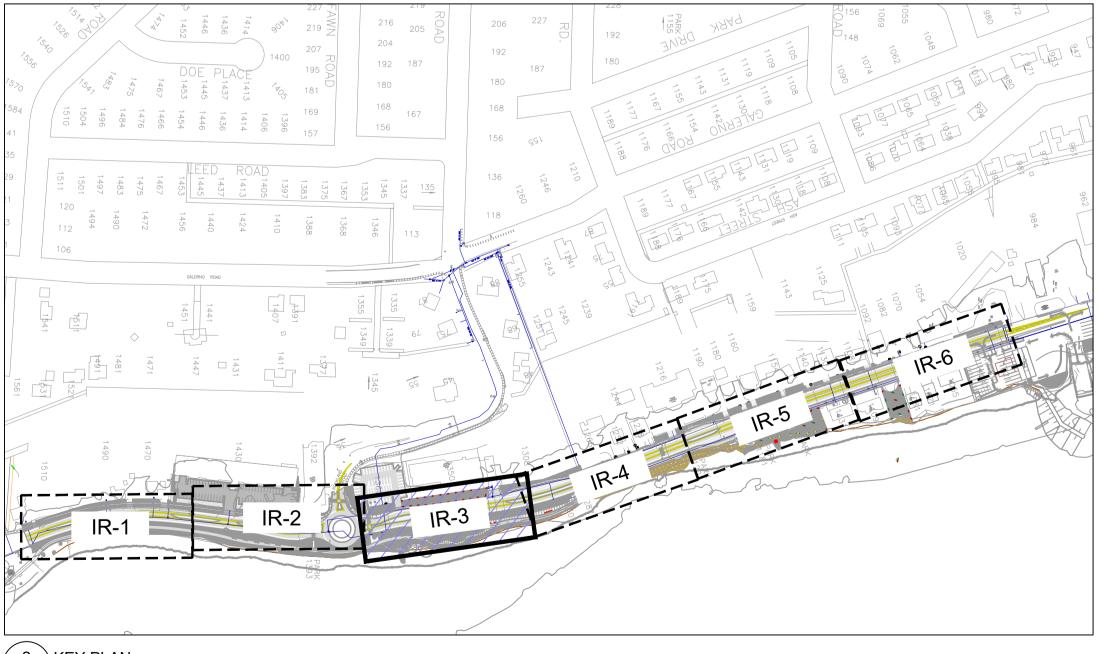
IRRIGATION PLAN HIGHWAY 19A UPGRADES - PHASE 3

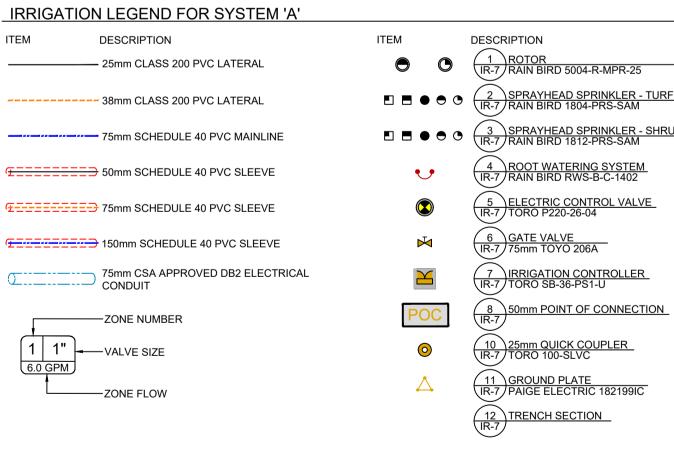
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SHEET OF 7	VOSTROY
REV. 1 2 -	Ш

CCR17-02









- 4. IRRIGATION PLANS ARE SCHEMATIC ONLY. ALL PLANT MATERIAL, LIGHT STANDARDS, HARD SURFACES OR AMENITIES TAKE PRECEDENCE OVER LOCATION OF IRRIGATION COMPONENTS.
- 5. CONTRACTOR TO CONFIRM 55gpm @ 75psi AT SOURCE PRIOR TO
 INSTALLATION FOR SYSTEM 'A' AND 25gpm @ 75PSI AT SOURCE AT SYSTEM 14.
 'B'. CONTACT CONTRACT ADMINISTRATOR IF PRESSURE IS LESS THAN

 BE WHITE IN COLOUR, MASTER VALVE CONTROL WIRE SHALL BE RED IN
- 6. ALL ELECTRIC CONDUIT SHALL BE CSA NON-METALLIC DB2 PVC, GREY IN
- 7. INSTALL VALVES WITH MINIMUM 50mm CLEARANCE BETWEEN VALVE AND VALVE BOX, AND BETWEEN VALVE AND DRAIN ROCK.

WATERPLANIT

- 8. WIRE SPLICES SHALL BE MADE w/ DRYCONN DBR/Y-600 OR 3M DBR/Y CONNECTORS & LOCATED AT ELECTRIC CONTROL ZONE VALVES.
- 12. IDENTIFY ELECTRIC CONTROL VALVE WITH PERMANENT LABEL OR TAG
- INDICATING ZONE NUMBER OF VALVE.
- 13. CONTRACTOR SHALL CONFIRM LOCATION OF POINT OF CONNECTION AND CONTROLLER PRIOR TO INSTALLATION.
- COLOUR, CONTROL WIRES TO BE ORANGE, GREEN, YELLOW, BROWN OR BLACK IN COLOUR, SPARE WIRES TO BE BLUE IN COLOUR. COLOURS SHALL STAY CONSISTENT AND NOT CHANGE AT SPLICE.
- 15. CONTRACTOR TO MAKE GOOD ANY DAMAGES THAT OCCUR TO EXISTING IRRIGATION SYSTEMS DURING CONSTRUCTION.
- 16. CONTRACTOR IS RESPONSIBLE TO CHECK AND CONFIRM ALL DIMENSIONS AND ELEVATIONS ON DRAWING.

FOR 100% REVIEW

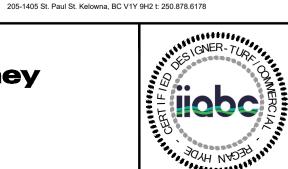
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BC One Call Click or Call Before You Dig	

						— т— —	U/G TELUS		s	SANITARY SEWER	s		SWALE		DESIGNED:	A1 SCALE:
						c	U/G SHAW	c	FM		——— FМ ———	0 0	SAN. SEWER STORM DRAIN MANHOLE	• •	RH	AS SHOWN
						— U /G— —	U/G HYDRO	— U /G— —	- D $-$ D	STORM DRAIN	— — D — —	SIDE INLET ☐ TOP INLET	CATCH BASIN	SIDE INLET TOP INLET	DRAWN:	DATE:
						— — E — —	OVERHEAD HYDRO	— —E — —	— - — w — - —	WATER MAIN	—-— w—-—	\Diamond	FIRE HYDRANT	•	RH	20/10/28
2	FOR 100% REVIEW	RH	20/10/26	RH	20/10/26	— — G — —	NATURAL GAS	G		PAVEMENT		\bowtie	WATER VALVE	н	CHECKED:	DATE:
1	FOR 95% REVIEW	RH	20/01/24	RH	20/01/24					CURB & GUTTER		-	UTILITY POLE	•	RH	20/10/28
0	FOR 90% REVIEW	RH	19/10/15	RH	19/10/15					SIDEWALK			GUY LINE ANCHOR		APPROVED:	DATE:
NO.	REVISION	DRAWN	DATE	CHECKED	DATE	EXISTING	LEGEND	DESIGN	EXISTING	LEGEND	DESIGN	EXISTING	LEGEND	DESIGN	RH	20/10/28



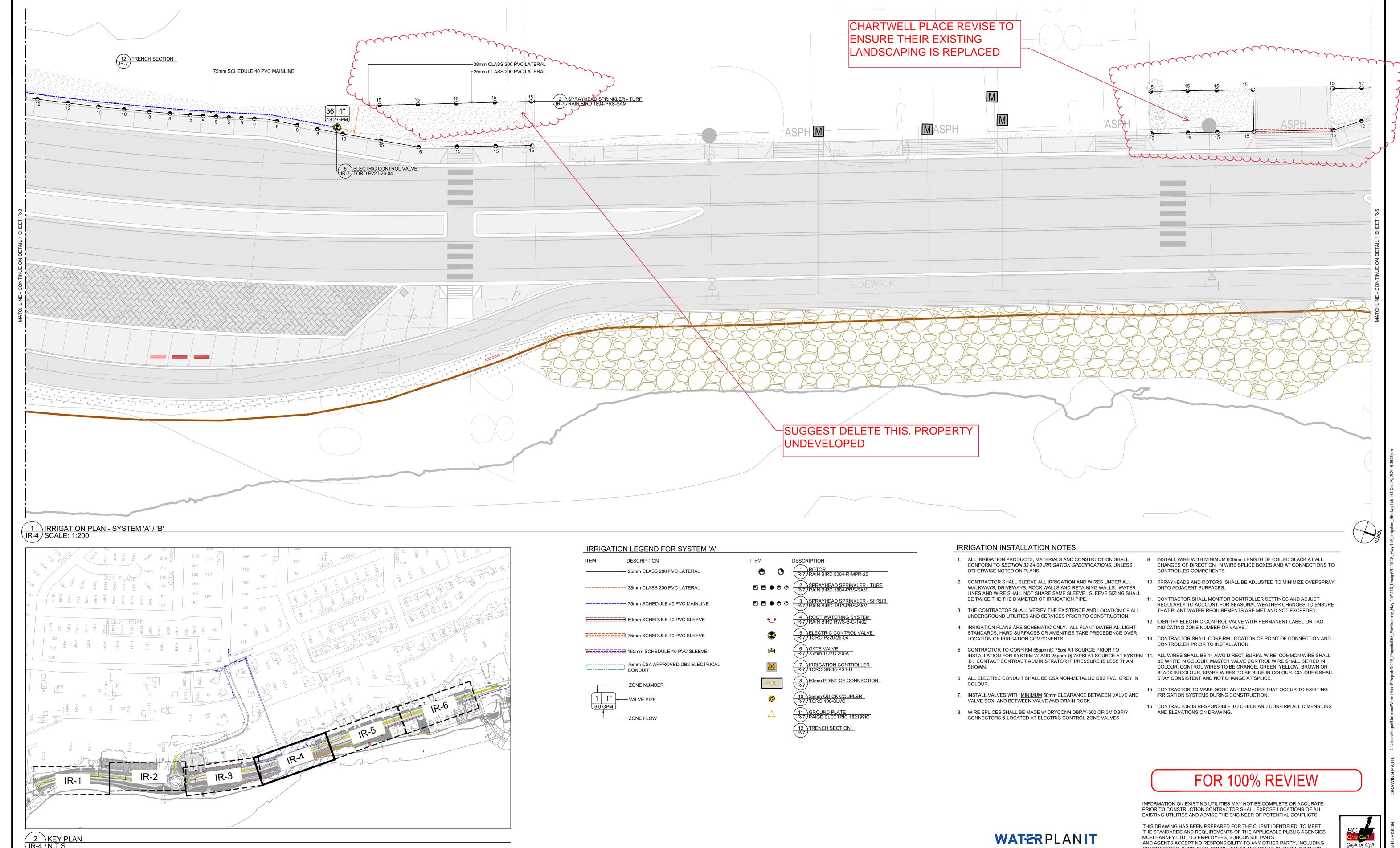


CITY	OF	CAMPBELL	RIVER

CAMPBELL RIVER, BC

IRRIGATION PLAN HIGHWAY 19A UPGRADES - PHASE 3

CCR17-02 IR3 LHANNEY PROJECT #: 2221-49145 HEET 3 OF 7



DESIGN

CONTRACTORS, SUPPLIERS, CONSULTANTS AND STAKEHOLDERS, OR THEIR EMPLOYEES OR AGENTS, FOR LOSS OR LIABILITY INCURRED AS A RESULT OF THEIR USE OF THESE DRAWINGS.



						— т— —	U/G TELUS	T	s	SANITARY SEWER	s		SWALE		DESIGNED:	A1 SCALE:
						c	U/G SHAW	c	FM		——FM——	0 0	SAN. SEWER STORM DRAIN MANHOLE	• •	RH	AS SHOW
						— U /G— —	U/G HYDRO	— U /G— —	— — D — —	STORM DRAIN	— — D — —	☐SIDE INLET ☐ TOP INLET	CATCH BASIN	SIDE INLET TOP INLET	DRAWN:	DATE:
						— —E — —	OVERHEAD HYDRO	— — Е — —	— - — w — - —	WATER MAIN	—-— w—-—	\Diamond	FIRE HYDRANT	•	RH	20/10/28
2	FOR 100% REVIEW	RH	20/10/26	RH	20/10/26	— — G — —	NATURAL GAS	G		PAVEMENT		\bowtie	WATER VALVE	H	CHECKED:	DATE:
1	FOR 95% REVIEW	RH	20/01/24	RH	20/01/24					CURB & GUTTER		$\dot{ ho}$	UTILITY POLE	•	RH	20/10/28
0	FOR 90% REVIEW	RH	19/10/15	RH	19/10/15					SIDEWALK			GUY LINE ANCHOR			+

EXISTING

DESIGN

EXISTING

DESIGN

NO. REVISION

CHECKED DATE





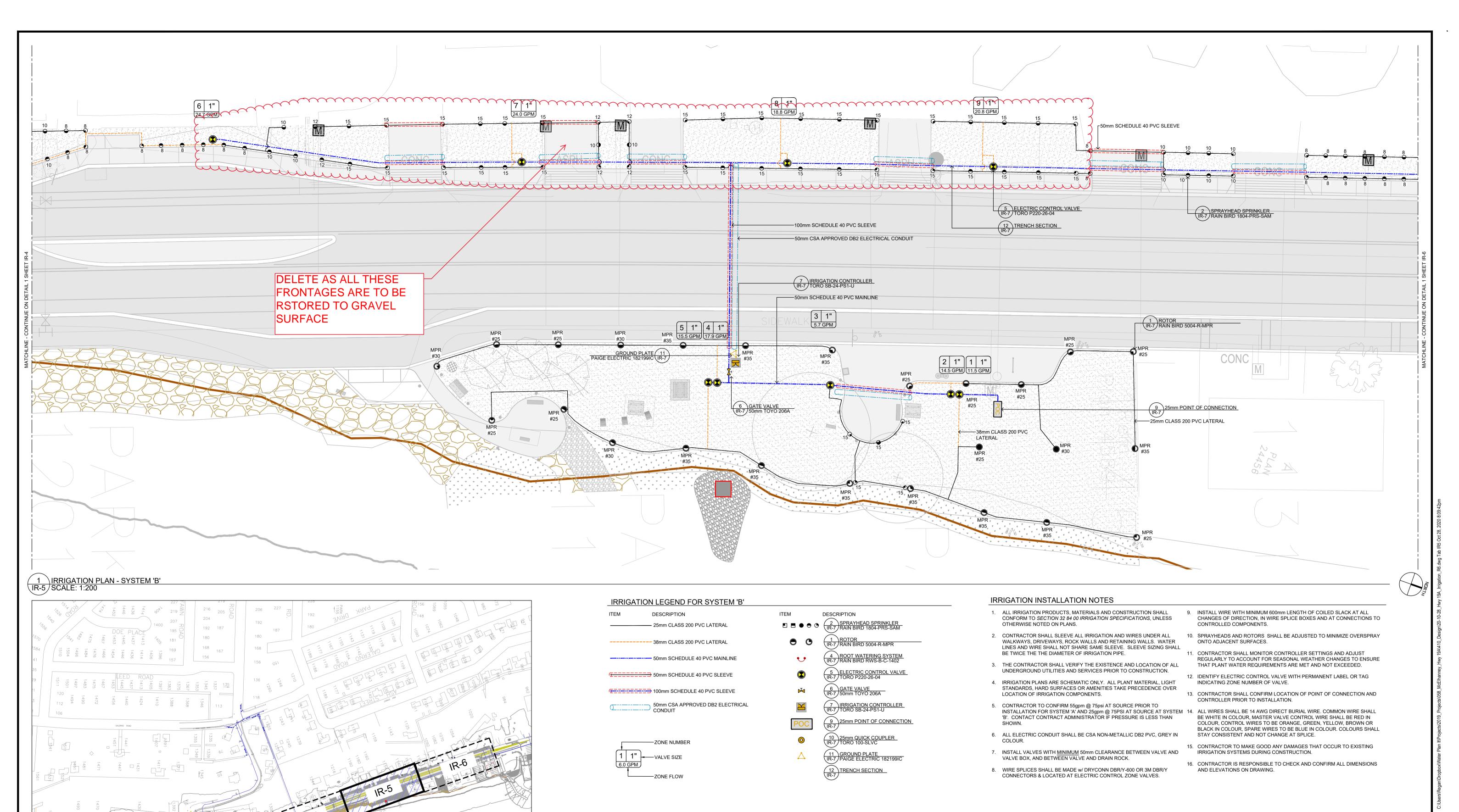
205-1405 St. Paul St. Kelowna, BC V1Y 9H2 t: 250.878.6178

CITY	OF	CAMPBELL	RIVER

CAMPBELL RIVER, BC

IRRIGATION PLAN HIGHWAY 19A UPGRADES - PHASE 3

	C	CR17-	-02						
SHEET REF:									
	McELHANNEY PROJECT #: 2221-49145								
	SHEET	4 OF	7						
	REV.	2		1					



FOR 100% REVIEW

INFORMATION ON EXISTING UTILITIES MAY NOT BE COMPLETE OR ACCURATE. PRIOR TO CONSTRUCTION CONTRACTOR SHALL EXPOSE LOCATIONS OF ALL EXISTING UTILITIES AND ADVISE THE ENGINEER OF POTENTIAL CONFLICTS.

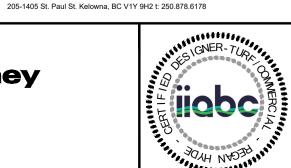
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						C	U/G SHAW U/G HYDRO	C	l IVI	STORM DRAIN	——FM—— —— D ——	○ ○ □ SIDE INLET □ TOP INLET	SAN. SEWER STORM DRAIN MANHOLE CATCH BASIN	SIDE INLET TOP INLET	RH DRAWN:	AS SHOWN DATE:
						— —E— —	OVERHEAD HYDRO	— —E — —	w	WATER MAIN	—-— w—-—	\Diamond	FIRE HYDRANT	•	RH	20/10/28
2	FOR 100% REVIEW	RH	20/10/26	RH	20/10/26	— —G— —	NATURAL GAS	G		PAVEMENT		×	WATER VALVE	H	CHECKED:	DATE:
1	FOR 95% REVIEW	RH	20/01/24	RH	20/01/24					CURB & GUTTER		-	UTILITY POLE	-	RH	20/10/28
0	FOR 90% REVIEW	RH	19/10/15	RH	19/10/15					SIDEWALK			GUY LINE ANCHOR		APPROVED:	DATE:
NO.	REVISION	DRAWN	DATE	CHECKED	DATE	EXISTING	LEGEND	DESIGN	EXISTING	LEGEND	DESIGN	EXISTING	LEGEND	DESIGN	RH	20/10/28



PH (250) 287-7799



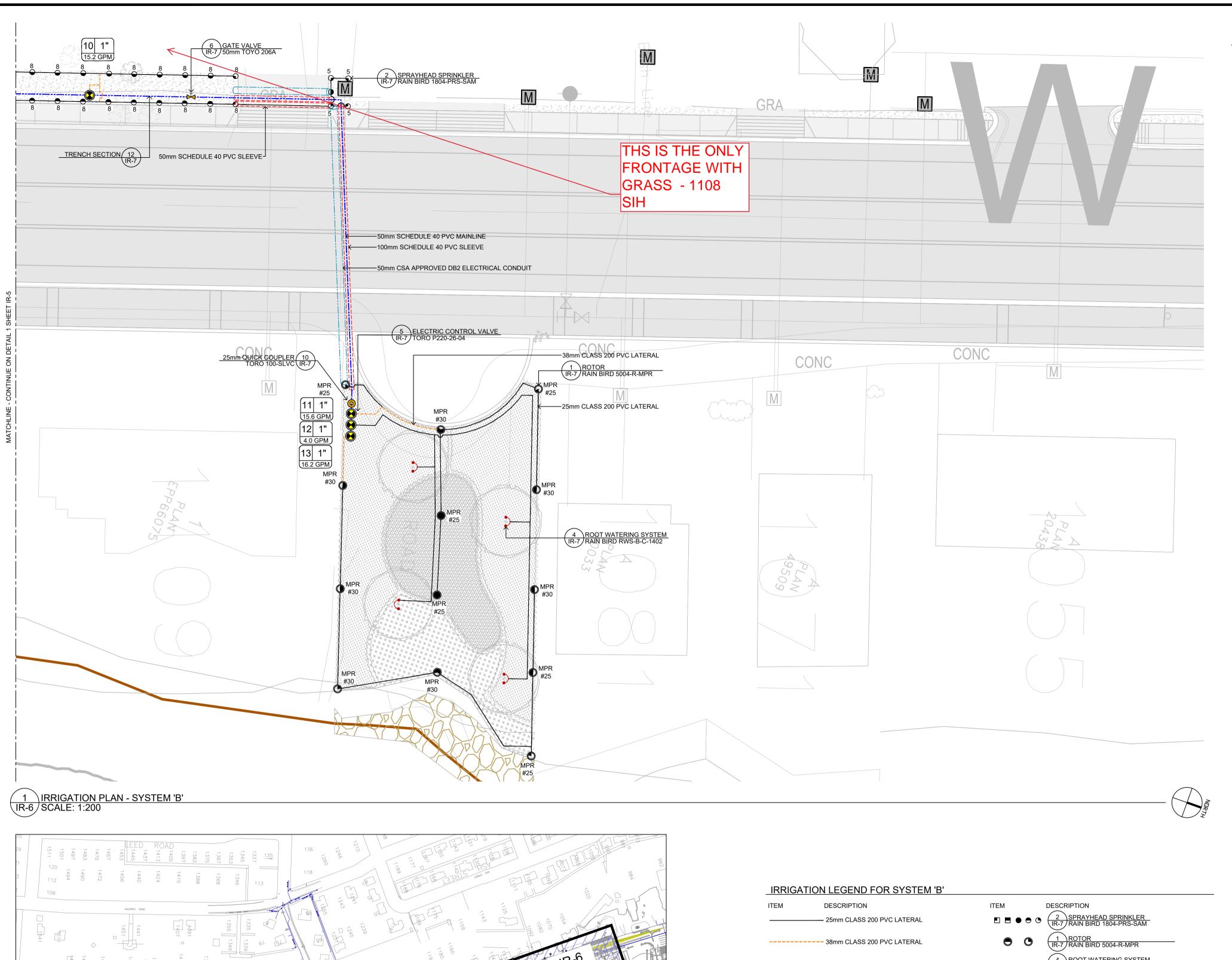
WATERPLANIT

CITY OF CAMPBELL RIVER

CAMPBELL RIVER, BC

IRRIGATION PLAN
HIGHWAY 19A UPGRADES - PHASE 3





50mm SCHEDULE 40 PVC MAINLINE 50mm SCHEDULE 40 PVC SLEEVE 100mm SCHEDULE 40 PVC SLEEVE 50mm CSA APPROVED DB2 ELECTRICAL CONDUIT (9) 25mm POINT OF CONNECTION —ZONE NUMBER -VALVE SIZE

DESIGN

-ZONE FLOW

EXISTING

DESIGN

12 TRENCH SECTION IR-7

IRRIGATION SCHEDULE NOTE: IRRIGATION RUN TIMES ARE FOR ESTABLISHED PLANT MATERIAL ONLY. PROGRAM CONTROLLER TO OPERATE MULTIPLE ZONES SIMULTANEOUSLY

SYS	TEM 'A'					BASED ON	PEAK DE		-OR MON (ET=0.12"	
ZONE	LANDSCAPE	IRRIGATION TYPE	VALVE SIZE	DESIGN FLOW (GPM)	DESIGN PRESSURE (PSI)	PRECIPITATION RATE (IN/HR)	SOIL TYPE	INTERVAL DAYS	CYCLES PER RUN TIME	RUI TIMI (MIN
1	TURF	RAIN BIRD 1804PRSSAM	25mm	23.0	30	1.59	CLAY LOAM	2	1	10
2	TURF	RAIN BIRD 1804PRSSAM	25mm	27.3	30	1.59	CLAY LOAM	2	1	10
3	TURF	RAIN BIRD 1804PRSSAM	25mm	25.0	30	0.91	CLAY LOAM	2	1	18
4	TURF	RAIN BIRD 1804PRSSAM	25mm	27.3	30	1.59	CLAY LOAM	2	1	10
5	TURF	RAIN BIRD 1804PRSSAM	25mm	22.1	30	1.59	CLAY LOAM	2	1	10
6	TURF	RAIN BIRD 1804PRSSAM	25mm	20.8	30	1.59	CLAY LOAM	2	1	10
7	TURF	RAIN BIRD 1804PRSSAM	25mm	24.7	30	1.59	CLAY LOAM	2	1	10
8	TURF	RAIN BIRD 1804PRSSAM	25mm	24.1	30	1.59	CLAY LOAM	2	1	10
9	TURF	RAIN BIRD 1804PRSSAM	25mm	20.0	30	0.91	CLAY LOAM	2	1	18
10	TURF	RAIN BIRD 1804PRSSAM	25mm	23.2	30	1.59	CLAY LOAM	2	1	10
11	SHRUB	RAIN BIRD 1812PRSSAM	25mm	22.4	30	1.59	CLAY LOAM	2	1	7
12	TREE	RAIN BIRD RWSBC1402	25mm	7.0	30	n/a	CLAY LOAM	2	1	10
13	SHRUB	RAIN BIRD 1812PRSSAM	25mm	22.5	30	1.59	CLAY LOAM	2	1	10
14	SHRUB	RAIN BIRD 1812PRSSAM	25mm	19.2	30	1.59	CLAY LOAM	2	1	7
15	TURF	RAIN BIRD 1804PRSSAM	25mm	12.4	30	1.59	CLAY LOAM	2	1	7
16	TURF	RAIN BIRD 1804PRSSAM	25mm	16.6	30	0.91	CLAY LOAM	2	1	18
17	SHRUB	RAIN BIRD 1812PRSSAM	25mm	26.2	30	1.59	CLAY LOAM	2	1	7
18	TREE	RAIN BIRD RWSBC1402	25mm	3.0	30	n/a	CLAY LOAM	2	1	0
19	SHRUB	RAIN BIRD 1812PRSSAM	25mm	28.0	30	1.59	CLAY LOAM	2	1	7
20	SHRUB	RAIN BIRD 1812PRSSAM	25mm	18.0	30	1.59	CLAY LOAM	2	1	7
21	TURF	RAIN BIRD 1804PRSSAM	25mm	21.2	30	1.59	CLAY LOAM	2	1	10
22	SHRUB	RAIN BIRD 1812PRSSAM	25mm	21.7	30	1.59	CLAY LOAM	2	1	7
23	TREE	RAIN BIRD RWSBC1402	25mm	6.0	30	n/a	CLAY LOAM	2	1	0
24	SHRUB	RAIN BIRD 1812PRSSAM	25mm	21.7	30	1.59	CLAY LOAM	2	1	7
25	SHRUB	RAIN BIRD 1812PRSSAM	25mm	18.1	30	1.59	CLAY LOAM	2	1	7
27	TURF	RAIN BIRD 1804PRSSAM	25mm	25.7	30	1.59	CLAY LOAM	2	1	10
28	TURF	RAIN BIRD 1804PRSSAM	25mm	25.4	30	1.59	CLAY LOAM	2	1	10
28	TURF	RAIN BIRD 1804PRSSAM	25mm	25.4	30	1.59	CLAY LOAM	2	1	10
29	TURF	RAIN BIRD 1804PRSSAM	25mm	18.5	30	1.59	CLAY LOAM	2	1	10
30	TURF	RAIN BIRD 1804PRSSAM	25mm	13.3	30	0.91	CLAY LOAM	2	1	18
31	SHRUB	RAIN BIRD 1812PRSSAM	25mm	11.1	30	1.59	CLAY LOAM	2	1	7
32	TURF	RAIN BIRD 1804PRSSAM	25mm	22.5	30	0.91	CLAY LOAM	2	1	18
33	TURF	RAIN BIRD 5004+PCSAMR-MPR-25	25mm	21.8	45	0.61	CLAY LOAM	2	1	28
34	TURF	RAIN BIRD 5004+PCSAMR-MPR-25	25mm	21.8	45	0.61	CLAY LOAM	2	1	28
35	TURF	RAIN BIRD 1804PRSSAM	25mm	19.6	30	0.91	CLAY LOAM	2	1	18
36	TURF	RAIN BIRD 1804PRSSAM	25mm	18.2	30	0.91	CLAY LOAM	2	1	18

IRRIGATION SCHEDULE NOTE: IRRIGATION RUN TIMES ARE FOR ESTABLISHED PLANT MATERIAL ONLY. PROGRAM CONTROLLER TO OPERATE MULTIPLE ZONES SIMULTANEOUSLY

SYS [.]	STEM 'B'						BASED ON PEAK DEMAND FOR MONTH OF JULY (ET=0.12"/DAY						
ZONE	LANDSCAPE	IRRIGATION TYPE	VALVE SIZE	DESIGN FLOW (GPM)	DESIGN PRESSURE (PSI)	PRECIPITATION RATE (IN/HR)	SOIL TYPE	INTERVAL DAYS	CYCLES PER RUN TIME	RUN TIME (MIN)			
1	TURF	RAIN BIRD 5004R-MPR	25mm	11.5	45	0.63	CLAY LOAM	2	1	25			
2	TURF	RAIN BIRD 5004R-MPR	25mm	14.5	45	0.63	CLAY LOAM	2	1	25			
3	TURF	RAIN BIRD 1804PRSSAM	25mm	5.7	30	1.56	CLAY LOAM	2	1	10			
4	TURF	RAIN BIRD 5004R-MPR	25mm	17.9	45	0.63	CLAY LOAM	2	1	25			
5	TURF	RAIN BIRD 5004R-MPR	25mm	15.5	45	0.63	CLAY LOAM	2	1	25			
6	TURF	RAIN BIRD 1804PRSSAM	25mm	24.7	30	1.56	CLAY LOAM	2	1	10			
7	TURF	RAIN BIRD 1804PRSSAM	25mm	24.0	30	1.56	CLAY LOAM	2	1	10			
8	TURF	RAIN BIRD 1804PRSSAM	25mm	18.8	30	1.56	CLAY LOAM	2	1	10			
9	TURF	RAIN BIRD 1804PRSSAM	25mm	20.8	30	1.56	CLAY LOAM	2	1	10			
10	TURF	RAIN BIRD 1804PRSSAM	25mm	15.2	30	1.56	CLAY LOAM	2	1	10			
11	SHRUB	RAIN BIRD 5004R-MPR	25mm	15.6	45	0.63	CLAY LOAM	2	1	17			
12	TREE	RAIN BIRD 5004R-MPR	25mm	4.0	30	n/a	CLAY LOAM	2	1	10			
13	SHRUB	RAIN BIRD 5004R-MPR	25mm	16.2	45	0.63	CLAY LOAM	2	1	17			
		<u> </u>							TOTAL:	204			

IRRIGATION INSTALLATION NOTES

- 1. ALL IRRIGATION PRODUCTS, MATERIALS AND CONSTRUCTION SHALL CONFORM TO SECTION 32 84 00 IRRIGATION SPECIFICATIONS, UNLESS OTHERWISE NOTED ON PLANS.
- 2. CONTRACTOR SHALL SLEEVE ALL IRRIGATION AND WIRES UNDER ALL WALKWAYS, DRIVEWAYS, ROCK WALLS AND RETAINING WALLS. WATER LINES AND WIRE SHALL NOT SHARE SAME SLEEVE. SLEEVE SIZING SHALL BE TWICE THE THE DIAMETER OF IRRIGATION PIPE.
- 3. THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES AND SERVICES PRIOR TO CONSTRUCTION.
- 4. IRRIGATION PLANS ARE SCHEMATIC ONLY. ALL PLANT MATERIAL, LIGHT STANDARDS, HARD SURFACES OR AMENITIES TAKE PRECEDENCE OVER LOCATION OF IRRIGATION COMPONENTS.
- 5. CONTRACTOR TO CONFIRM 55gpm @ 75psi AT SOURCE PRIOR TO
 INSTALLATION FOR SYSTEM 'A' AND 25gpm @ 75PSI AT SOURCE AT SYSTEM 14.
 'B'. CONTACT CONTRACT ADMINISTRATOR IF PRESSURE IS LESS THAN

 BE WHITE IN COLOUR, MASTER VALVE CONTROL WIRE SHALL BE RED IN
- 6. ALL ELECTRIC CONDUIT SHALL BE CSA NON-METALLIC DB2 PVC, GREY IN
- 7. INSTALL VALVES WITH MINIMUM 50mm CLEARANCE BETWEEN VALVE AND VALVE BOX, AND BETWEEN VALVE AND DRAIN ROCK.

WATER PLANIT

8. WIRE SPLICES SHALL BE MADE w/ DRYCONN DBR/Y-600 OR 3M DBR/Y CONNECTORS & LOCATED AT ELECTRIC CONTROL ZONE VALVES.

- 9. INSTALL WIRE WITH MINIMUM 600mm LENGTH OF COILED SLACK AT ALL CHANGES OF DIRECTION, IN WIRE SPLICE BOXES AND AT CONNECTIONS TO CONTROLLED COMPONENTS.
- 10. SPRAYHEADS AND ROTORS SHALL BE ADJUSTED TO MINIMIZE OVERSPRAY ONTO ADJACENT SURFACES.
- 11. CONTRACTOR SHALL MONITOR CONTROLLER SETTINGS AND ADJUST REGULARLY TO ACCOUNT FOR SEASONAL WEATHER CHANGES TO ENSURE THAT PLANT WATER REQUIREMENTS ARE MET AND NOT EXCEEDED.
- 12. IDENTIFY ELECTRIC CONTROL VALVE WITH PERMANENT LABEL OR TAG
- INDICATING ZONE NUMBER OF VALVE. 13. CONTRACTOR SHALL CONFIRM LOCATION OF POINT OF CONNECTION AND
- CONTROLLER PRIOR TO INSTALLATION.
- COLOUR, CONTROL WIRES TO BE ORANGE, GREEN, YELLOW, BROWN OR BLACK IN COLOUR, SPARE WIRES TO BE BLUE IN COLOUR. COLOURS SHALL STAY CONSISTENT AND NOT CHANGE AT SPLICE.
- 15. CONTRACTOR TO MAKE GOOD ANY DAMAGES THAT OCCUR TO EXISTING IRRIGATION SYSTEMS DURING CONSTRUCTION.
- 16. CONTRACTOR IS RESPONSIBLE TO CHECK AND CONFIRM ALL DIMENSIONS AND ELEVATIONS ON DRAWING.

FOR 100% REVIEW

INFORMATION ON EXISTING UTILITIES MAY NOT BE COMPLETE OR ACCURATE. PRIOR TO CONSTRUCTION CONTRACTOR SHALL EXPOSE LOCATIONS OF ALL EXISTING UTILITIES AND AD

THIS DRAWING HAS BEEN THE STANDARDS AND REC MCELHANNEY LTD., ITS EM AND AGENTS ACCEPT NO I CONTRACTORS, SUPPLIER EMPLOYEES OR AGENTS, F OF THEIR USE OF THESE D

PREPARED FOR THE CLIENT IDENTIFIED, TO MEET QUIREMENTS OF THE APPLICABLE PUBLIC AGENCIES. MPLOYEES, SUBCONSULTANTS RESPONSIBILITY TO ANY OTHER PARTY, INCLUDING Click or O	NGINEER OF POTENTIAL CONFLICTS.
	OR THE CLIENT IDENTIFIED, TO MEET OF THE APPLICABLE PUBLIC AGENCIES. UBCONSULTANTS LITY TO ANY OTHER PARTY, INCLUDING ANTS AND STAKEHOLDERS, OR THEIR BC One Call Click or Call Before You Dig

						т	U/G TELUS	— т— —	s	SANITARY SEWER	s		SWALE		DESIGNED:	A1 SCALE
						c	U/G SHAW	c	FM		FM	0 0	SAN. SEWER STORM DRAIN MANHOLE	• •	RH	AS S
						— U /G— —	U/G HYDRO	— U /G— —	— — D — —	STORM DRAIN	— — D — —	☐SIDE INLET ☐TOP INLET	CATCH BASIN	SIDE INLET TOP INLET	DRAWN:	DATE:
						— —E — —	OVERHEAD HYDRO	— — E — —	— - — w — - —	WATER MAIN	—-— w—-—	\Diamond	FIRE HYDRANT	•	RH	20/10/2
2	FOR 100% REVIEW	RH	20/10/26	RH	20/10/26	— — G — —	NATURAL GAS	G		PAVEMENT		\bowtie	WATER VALVE	H	CHECKED:	DATE:
1	FOR 95% REVIEW	RH	20/01/24	RH	20/01/24					CURB & GUTTER		-	UTILITY POLE	•	RH	20/10/2
0	FOR 90% REVIEW	RH	19/10/15	RH	19/10/15					SIDEWALK			GUY LINE ANCHOR		—	+

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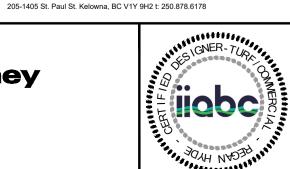
NO. REVISION

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CITY OF CAMPBELL RIVER

IRRIGATION PLAN

CAMPBELL RIVER, BC

HIGHWAY 19A UPGRADES - PHASE 3

C	JR17-	.02	
SHEET R	IR6		
	INEY PROJ 221-49		
SHEET	6 OF	7	
REV.	2		-

