

RETURN BIDS TO:
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Bid Receiving Public Works and Government
Services Canada/Réception des soumissions
Travaux publics et Services gouvernementaux
Canada
800 Burrard Street, Room 219
800, rue Burrard, pièce 219
Vancouver
British Columbia
V6Z 0B9
Bid Fax: (604) 775-9381

SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION

The referenced document is hereby revised; unless otherwise
indicated, all other terms and conditions of the Solicitation
remain the same.

Ce document est par la présente révisé; sauf indication contraire,
les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

Vendor/Firm Name and Address
Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution
Public Works and Government Services Canada -
Pacific Region
800 Burrard Street, Room 219
800, rue Burrard, pièce 219
Vancouver
British C
V6Z 0B9

Title - Sujet Perimeter Fence Upgrades	
Solicitation No. - N° de l'invitation EZ899-161281/A	Amendment No. - N° modif. 002
Client Reference No. - N° de référence du client EZ899-161281	Date 2015-10-23
GETS Reference No. - N° de référence de SEAG PW-\$PWY-022-7630	
File No. - N° de dossier PWY-5-38203 (022)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2015-10-29	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Arthur (PWY), Carolyn	Buyer Id - Id de l'acheteur pwy022
Telephone No. - N° de téléphone (604) 775-6667 ()	FAX No. - N° de FAX (604) 775-6633
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: CSC - Various Institutions, Various, BC	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

Solicitation No. - N° de l'invitation

EZ899-161281/A

Client Ref. No. - N° de réf. du client

EZ899-161281

Amd. No. - N° de la modif.

002

File No. - N° du dossier

PWY-5-38203

Buyer ID - Id de l'acheteur

pw022

CCC No./N° CCC - FMS No/ N° VME

This Amendment 002 is raised to provide the list of Site Visit Attendees and to incorporate Addendum No. 1.

Site Visit Attendees

DGBK Architects

Rite-Way Fencing

Houle Electric

Pro-Line Fence Ltd.

Steamline Fencing Ltd.

Progressive Fence Installations Ltd.

Blue Pine Enterprises Ltd.

Please see the attached Addendum No. 1.

All other terms and conditions remain unchanged.

The following changes in the tender documents are effective immediately. This addendum will form part of the contract documents.

SPECIFICATIONS

.1 01 01 50 GENERAL INSTRUCTIONS

a) 1.1 Summary of Work: Revise 1.1.1 thru 1.1.2 as follows:

1.1.1 Work covered by Contract Documents:

- .1 Pacific Region Perimeter Fence Upgrades
- .2 This Contract covers the following work at the:

.1 Kent Institution – Agassiz, B.C.

Including but not limited to gate removal, new gates, fence infills, fence removal, road work, crash bar and FDS modifications.

.2 Mountain Institution – Agassiz, B.C.

Including but not limited to gate removal, new and modified gates, fence infills, fence removal, crash bar and FDS modifications.

.3 Mission Medium Institution – Mission, B.C.

Including but not limited to gate removal, new and modified gates, fence infills, FDS modifications, and excavation and backfill.

.4 Pacific Institution – Abbotsford, B.C.

Including but not limited to gate removal, new and modified gates, fence removal, crash bar and FDS modifications.

.5 Fraser Valley Institution – Abbotsford, B.C.

Including but not limited to gate removal, new gates, fence infills, fence removal, road work and FDS modifications.

.6 Matsqui Institution – Abbotsford, B.C.

Including but not limited to gate removal, new and modified gates, fence infills, fence mesh replacement, fence removal, crash bar, road work and FDS modifications.

1.1.2 Work to be performed under this Contract includes, but not limited to, the above and the following items covered further in the Contract documents:

- .1 Provide a detailed work plan including a project schedule and phasing. This detailed work plan shall be submitted to the Departmental Representative for review to verify that there will be no interruption of service.
-

- .2 Do not start work until all essential equipment is delivered to the site and the work can proceed without delays.
- .3 Provide as-built drawings and closeout submittals.
- .2 31 23 10 EXCAVATION, TRENCHING, AND BACKFILLING
 - a) Delete full section
 - b) Add 31 23 10 EXCAVATION, TRENCHING, AND BACKFILLING – Revision 1
- .3 32 31 13 CHAIN LINK FENCING AND GATES
 - a) 2.1.6 Vehicle Swing and Sliding Gates: Add the following:
 - .7 Provide the following integration for lock hardware:
 - .1 Provide welded on brackets with holes, at top and bottom of gates as a guide for cremone bolt lock vertical rods.
 - .2 Provide head and foot bolt keepers with a 38mm diameter opening for vertical rods. Bottom keeper to have spring loaded cap that retracts when rod lowered.
 - .3 Concrete base for foot bolt keeper to be min. 300mm diameter x 600mm deep.
 - .4 Hinges to be welded to gate and post.
 - .5 Provide watertight enclosure for Cremone lock.
 - .6 Paint complete Cremone lock assembly MPDA EXT 5.1J Premium Grade
 - .7 Provide two cylinder shields for each lock.

DRAWINGS

- .1 A1-KT – Kent Institution
 - a) Revise road work notation at new gates Detail 2:
 - a. Remove soil +/- 26M x 6M x 350mm deep and replace with road gravel as specified section 31 23 10 – Rev 1
 - b. Co-ordinate with electrical modifications to in ground detection system.
 - b) Add: Note to remove man gate from sallyport to exterior.
- .2 A1-MA – Matsqui Institution
 - a) Revise notation road work area of gates detail 4 and 5:
 - a. Widen existing road by 3M x 10M long both side of gate and angle back to existing road in 10M length.
 - b. Excavate and provide road gravel as specified section 31 23 10 – Rev 1
- .3 A3-MI – Mission Medium Institution
 - a) Details 5 & 6
 - a. Add note to existing for removal of gate posts
 - b. Add note to modified gate for the addition of new posts and footings.
- .4 ASK-01 - A2-MO – Mountain Institution
 - a) Revise Detail 1 Revision 1 per attached
 - a. Change from single gate to double gate as detailed.
- .5 ASK-02 & ASK-03 – Man Gate Kent Institution
- .6 E1-KT – Kent Institution
 - a) Reference New Gates on Inner and Outer Perimeter Fence at South East corner of Fence Line.
 - b) Add Note to read:
Supply & Install new 103mm Rigid PVC Conduit cut in half lengthways and place over existing MDS cables encased in sand and geotechnical fabric where new road gravel is to be placed. Install conduit over MDS cables in the area of the new road gravel between the new inner and outer gates (+/- 6M).
- .7 E2-MI – Mission Institution

- a) Reference Existing Elevation.
 - b) Remove existing Pull Box `A` and Pull Box `B` on existing cable tray.
 - .8 E2-MI – Mission Institution
 - a) Reference New Elevation.
 - b) Supply & Install new Pull Box at locations shown as Pull Box `A` and Pull `B`.
 - c) New Pull Boxes to be 500 x 500 x 150mm Deep, NEMA 3R Rated, 14 Gauge steel, with hinged lockable cover.
 - d) Provide two 78mm nipples from new Pull Box and connect to existing cable tray.
 - e) Connect new underground 78mm RPVC conduits to new Pull Boxes.
 - f) Supply and install new steel plates at end of existing cable tray at each location of new pull boxes.
 - .9 E2-FV – Fraser Valley Institution
 - g) Replace Elevations A, B, C, D, E and F with attached Sketches SK-E1, SK-E2 and SK-E3.
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1 General

1.1 RELATED SECTIONS

- .1 Section 01 01 50 – General Instructions.

1.2 REFERENCES

- .1 American Society for Testing and Materials (ASTM)
 - .1 ASTM C 117, Standard Test Method for Material Finer Than 0.075 mm (No.200) Sieve in Mineral Aggregates by Washing.
 - .2 ASTM C 136, Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates.
 - .3 ASTM D 698, Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft³) (600 kNm/m³).
 - .4 ASTM D 1557, Test Method for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft³) (2,700 kNm/m³).
 - .5 ASTM D995-95B, Standard Specification for Mixing Plants for Hot-Mixed, Hot-Laid Bituminous Paving Mixtures.
- .2 Canadian Standards Association (CSA International)
 - .1 CSA-A23.1/A23.2-09, Concrete Materials and Methods of Concrete Construction.
 - .2 CSA/CGSB-16.1-M89, Cutback Asphalts for Road Purposes.
 - .3 CAN/CGSB-16.2-M90, Asphalt Cements for Road Purposes.

1.3 DEFINITIONS

- .1 Unclassified excavation: excavation of deposits of whatever character encountered in Work.
- .2 Topsoil: material capable of supporting good vegetative growth and suitable for use in top dressing, landscaping and seeding.
- .3 Waste material: excavated material unsuitable for use in Work or surplus to requirements.
- .4 Borrow material: material obtained from locations outside area to be graded, and required for construction of fill areas or for other portions of Work.

1.4 SUBMITTALS

- .1 Samples:
 - .1 Submit samples in accordance with Section 01 01 50 - Submittal Procedures.
 - .2 Inform Departmental Representative at least 4 weeks prior to commencing Work, of proposed source of fill materials and provide access for sampling.

1.5 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate and recycle waste materials in accordance with Section 01 01 50 - Construction/Demolition Waste Management And Disposal.
- .2 Collect and separate plastic, paper packaging and corrugated cardboard in accordance with Waste Management Plan.
- .3 Place materials defined as hazardous or toxic in designated containers.
- .4 Ensure emptied containers are sealed and stored safely.

1.6 PROTECTION OF EXISTING FEATURES

- .1 Existing buried utilities and structures:
 - .1 Prior to commencing excavation Work, notify applicable Departmental Representative or authorities having jurisdiction, establish location and state of use of buried utilities and structures. Department Representative or authorities having jurisdiction to clearly mark such locations to prevent disturbance during Work.
 - .2 Confirm locations of buried utilities by careful test excavations.
 - .3 Maintain and protect from damage, water, sewer, gas, electric, telephone and other utilities and structures encountered as indicated.
 - .4 Where utility lines or structures exist in area of excavation, obtain direction of Departmental Representative before re-routing.
 - .5 Record location of maintained, re-routed and abandoned underground lines.
- .2 Existing buildings and surface features:
 - .1 Conduct, with Department Representative, condition survey of existing underground services, lawns, fencing, service poles, wires, rail tracks,

pavement, survey bench marks and monuments which may be affected by Work.

- .2 Protect existing buildings and surface features from damage while Work is in progress. In event of damage, immediately make repair to approval of Department Representative.
- .3 Where required for excavation, coordinate the schedule with the Departmental Representative.

2 Products

2.1 MATERIALS

- .1 Type 1 fill: clean, hard, durable crushed gravel or stone, free from shale clay, friable materials, organic material and other deleterious substances and graded within the following limits when tested to ASTM C136 and ASTM C117 and giving a smooth curve without sharp breaks when plotted on a semi-log grading chart:

<u>ASTM Sieve Designation</u>	<u>% Passing</u>
20 mm	100
12.5 mm	64 – 100
5 mm	35 – 72
1.25 mm	12 – 42
0.3	4 – 22
0.075	3 – 8

- .2 Type 2 fill: clean, hard, durable sand, free from shale clay, friable materials, organic material and other deleterious substances when tested to ASTM C136 and ASTM C117 and giving a smooth curve without sharp breaks when plotted on a semi-log grading chart:

<u>ASTM Sieve Designation</u>	<u>% Passing</u>
80 mm	100
25 mm	60 - 100
12.5 mm	40 - 90
5 mm	20 - 65
1.25 mm	9 - 35
0.3	3 - 15
0.075	0 - 5

- .3 Type 3 fill: selected material from excavation or other sources, approved by Department Representative for use intended, unfrozen and free from rocks larger than 75 mm, construction materials, cinders, ashes, wood-waste and organic matter, sods, refuse or other deleterious materials. Remove rocks large than 75 mm in fill used as common backfill in non-structural areas.
- .4 Type 4 fill: clean coarse, washed sand, free from clay, shale and organic matter.

- .5 Road Gravel
 - .1 Base - Pit run gravel 200 mm thick compacted.
 - .2 Top - 3/4 minus crushed rock 200 mm thick compacted.
 - .3 Excavate 350 mm and install gravel with a crown or taper to drain

- .6 Surface treatment: ¾ minus crushed limestone.

- .7 Asphalt Paving Mix:
 - .1 Mix design to AI MS-2.
 - .2 Job mix formula to be approved by the Departmental Representative.
 - .3 Design of mix: by Marshall method to requirements below:
 - .1 Compaction blows on each face of test specimens: 75.
 - .2 Mix physical requirements:

	Upper Course
Property	
Marshall Stability at 60 degrees C, kN minimum	5.5
Flow Value, mm	2-4
Air Voids in Mixture, %	3-5
Voids in Mineral Aggregate, % minimum	14
Index of Retained Stability, % minimum	75
 - .4 Do not change job-mix without prior approval of the Departmental Representative. When change in material source proposed, new job-mix formula to be reviewed by Departmental Representative.

3 Execution

3.1 SITE PREPARATION

- .1 Remove obstructions from surfaces to be excavated within limits indicated.
- .2 Cut pavement or sidewalk neatly along limits of proposed excavation in order that surface may break evenly and cleanly.

3.2 EXCAVATION

- .1 Try to excavate and backfill in the same day.
- .2 For trench excavation, unless otherwise authorized by Department Representative in writing, do not excavate more than 30 m of trench in advance of installation operations and do not leave open more than 15 m at end of day's operation.
- .3 Keep excavated and stockpiled materials a safe distance away from edge of trench as directed by Department Representative.
- .4 Restrict vehicle operations directly adjacent to open trenches.
- .5 Dispose of surplus and unsuitable excavated material off site.
- .6 Do not obstruct flow of surface drainage or natural watercourses.
- .7 Earth bottoms of excavations to be undisturbed soil, level, free from loose, soft or organic matter.
- .8 Notify Department Representative when bottom of excavation is reached.
- .9 Obtain Department Representative approval of completed excavation.
- .10 Remove unsuitable material from trench bottom to extent and depth as directed by Department Representative.

3.3 BACKFILLING

- .1 Do not proceed with backfilling operations until Department Representative has inspected and approved installations.
- .2 Areas to be backfilled to be free from debris, snow, ice, water and frozen ground.
- .3 Do not use backfill material which is frozen or contains ice, snow or debris.
- .4 Place backfill material in uniform layers not exceeding 150 mm compacted thickness. Compact each layer before placing succeeding layer.
- .5 Backfilling around installations.
 - .1 Place bedding and surround material as specified elsewhere.
 - .2 Place layers simultaneously on both sides of installed Work to equalize loading. Difference not to exceed 20 m.

- .6 Place unshrinkable fill in areas as indicated.
- .7 Consolidate and level unshrinkable fill with internal vibrators.

3.4 ASPHALT CONCRETE PAVING

- .1 Obtain approval of base and tack coat from the Departmental Representative before placing asphalt mix.
- .2 Place asphalt mix only when base is dry and air temperature is above 5 degrees C.
- .3 Place asphalt concrete in compacted, single layers, 50 mm one lift to same depth as existing.
- .4 Minimum 135 degrees C mix temperature required when spreading.
- .5 Maximum 160 degrees C mix temperature permitted at any time.
- .6 Compact with roller as soon as it can support roller weight without undue cracking or displacement.
- .7 Compact asphalt concrete to density not less than 95 % of density obtained with Marshall specimens prepared in accordance with ASTM D1559 from samples of mix being used. Roll until roller marks are eliminated.
- .8 Keep roller speed slow enough to avoid mix displacement and do not stop roller on fresh pavement.
- .9 Moisten roller wheels with water to prevent pick up of material.
- .10 Compact mix with hot tampers or other equipment in areas inaccessible to roller.
- .11 Finish surface to be within 10 mm of design elevation and with no irregularities greater than 10 mm in 4.5 m.
- .12 Repair areas showing checking, rippling or segregation.
- .13 Paint contact surfaces of existing surfaces and structures such as manholes, curbs or gutters with bituminous material prior to placing adjacent pavement.
- .14 For cold joints, cut back to full depth vertical face and tack face with hot asphalt.

3.5 RESTORATION

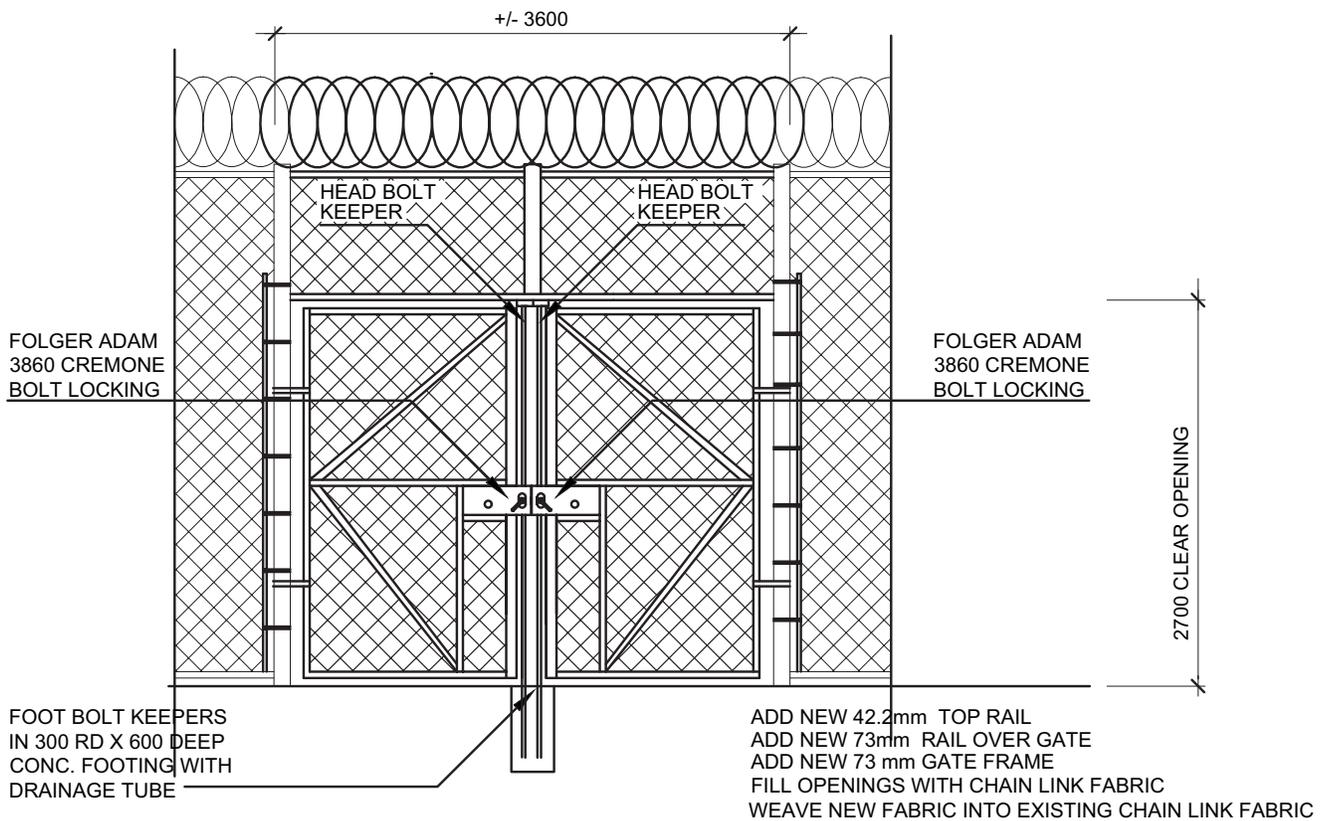
- .1 Upon completion of Work, remove waste materials and debris in accordance to Section 01 01 50 - Construction/Demolition Waste Management and Disposal, trim slopes, and correct defects as directed by Department Representative.
- .2 Replace damaged gravel as directed by Department Representative.
- .3 Reinstate surfaces to elevation which existed before excavation.
- .4 Reinstate pavements and sidewalks disturbed by excavation to thickness, structure and elevation which existed before excavation.
- .5 Clean and reinstate areas affected by Work as directed by Department Representative.
- .6 Use temporary plating to support traffic loads over unshrinkable fill for initial 24 hours.

3.6 REPAIR

- .1 Contractor shall repair all existing infrastructure damaged during the construction.

END OF SECTION

LOWER CHAIN LINK FABRIC
TO NEW TOP RAIL



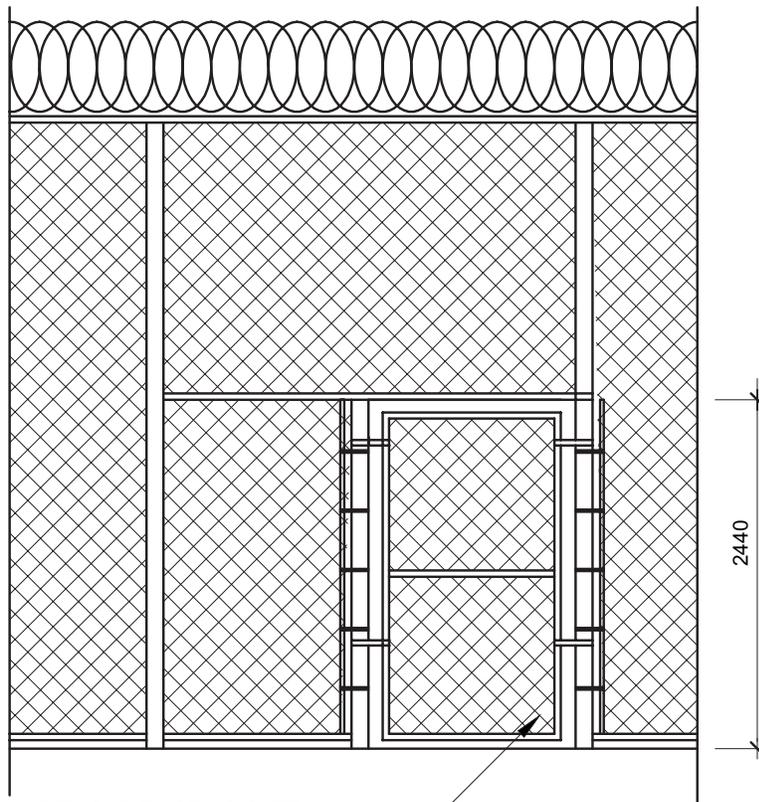
GAPS AROUND GATES TO BE NO
GREATER THAN 125mm

NEW MAINTENANCE GATE
TO CSC STANDARDS - SEE SPECIFICATION

DETAIL 1
REVISION 1

scale 1:50

 Public Works and Government Services Canada Pacific Region	Travaux publics et Services gouvernementaux Canada Région du Pacifique	drawing title		RD designed by	OCT. 16/15 date
		MOUNTAIN INSTITUTION REMOVED DETAIL 1 (REFERENCE DWG. A2-MO)		RD drawn by	OCT 16/15 date
				R.071529.001 project number	ASK-01 drawing no.

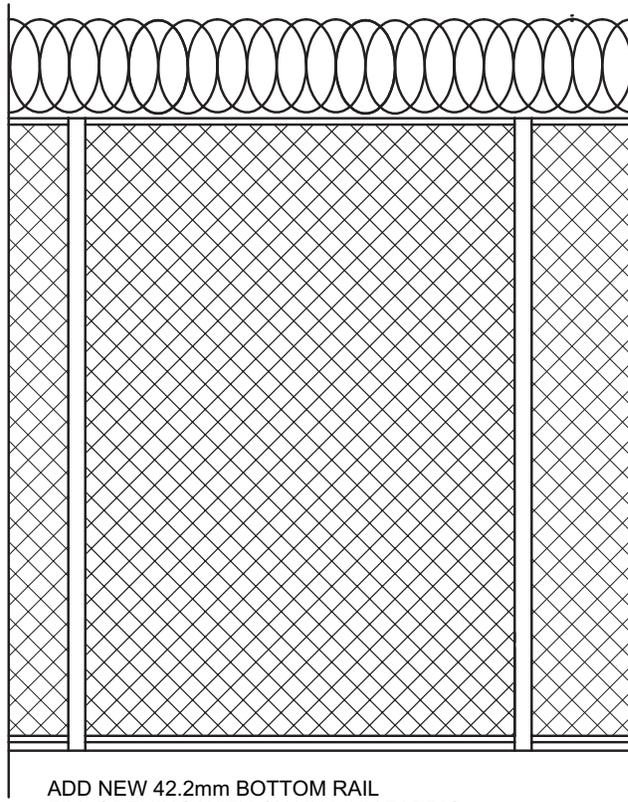


REMOVE EXISTING GATE
AND TOP RAIL

REMOVE EXISTING GATE

scale 1:50

 Public Works and Government Services Canada Pacific Region	Travaux publics et Services gouvernementaux Canada Région du Pacifique	drawing title		RD designed by	OCT. 16/15 date
		CORRECTIONAL SERVICE CANADA PACIFIC REGION PERIMETER FENCE UPGRADES		KENT INSTITUTION MAN GATE REMOVED (REFERENCE DWG. A1-KT)	
				R.071529.001 project number	ASK-02 drawing no.



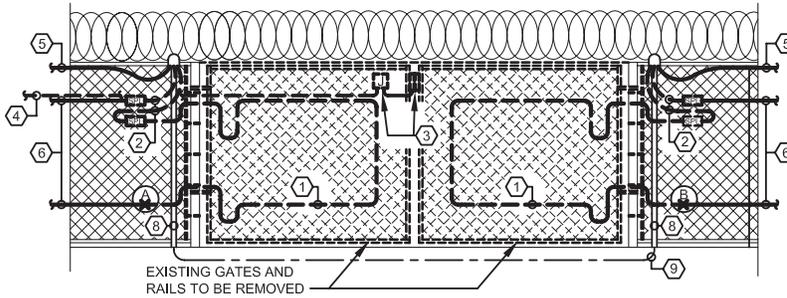
ADD NEW 42.2mm BOTTOM RAIL
 FILL OPENING WITH CHAIN LINK FABRIC
 WEAVE NEW CHAIN LINK FABRIC INTO EXISTING

FENCE INFILL

TO CSC STANDARDS - SEE SPECIFICATION

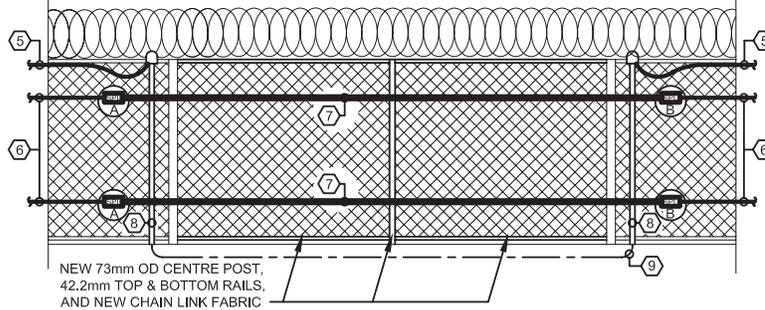
scale 1:50

 Public Works and Government Services Canada Pacific Region	Travaux publics et Services gouvernementaux Canada Région du Pacifique	drawing title		RD	OCT. 16/15
		KENT INSTITUTION MAN GATE REMOVED (REFERENCE DWG. A1-KT)		designed by	date
				RD	OCT 16/15
CORRECTIONAL SERVICE CANADA PACIFIC REGION PERIMETER FENCE UPGRADES		drawn by	date	R.071529.001	ASK-03
		project number	drawing no.		



EXISTING GATES AND
RAILS TO BE REMOVED

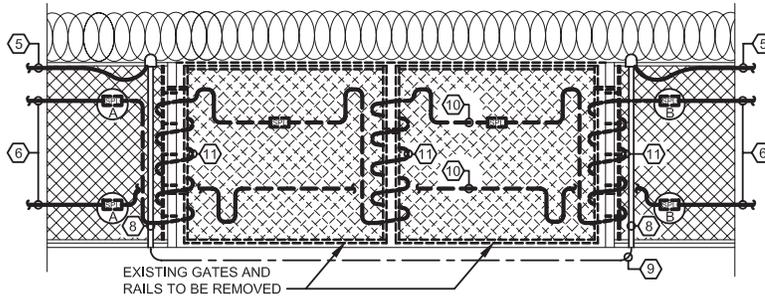
EXISTING ELEVATION



NEW 73mm OD CENTRE POST,
42.2mm TOP & BOTTOM RAILS,
AND NEW CHAIN LINK FABRIC

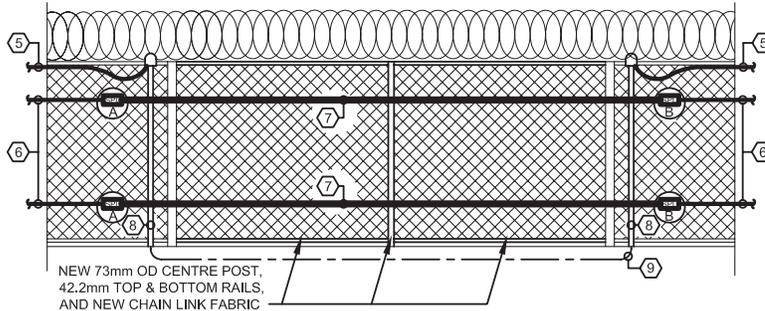
NEW ELEVATION

ELEVATION A
E1
SCALE N.T.S.



EXISTING GATES AND
RAILS TO BE REMOVED

EXISTING ELEVATION

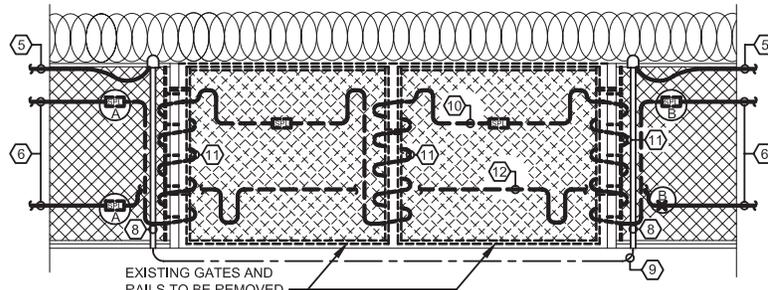


NEW 73mm OD CENTRE POST,
42.2mm TOP & BOTTOM RAILS,
AND NEW CHAIN LINK FABRIC

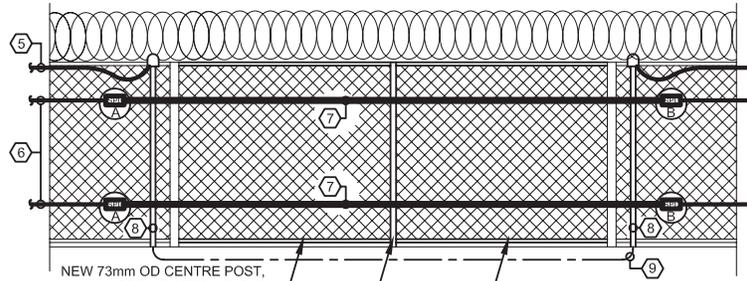
NEW ELEVATION

ELEVATION B
E1
SCALE N.T.S.

 Public Works and Government Services Canada Pacific Region	Travaux publics et Services gouvernementaux Canada Région du Pacifique	drawing title	T. JEREB designed by	OCT. 16/15 date
		CORRECTIONAL SERVICE CANADA PACIFIC REGION PERIMETER FENCE UPGRADES	FRASER VALLEY INSTITUTION REVISED ELEVATION 'A' and 'B' (REFERENCE DWG. E2-FV)	T. JEREB drawn by
			R.071529.001 project number	SK-E1 drawing no.

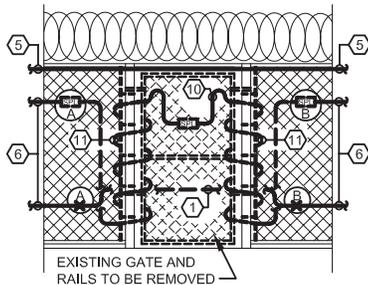


EXISTING ELEVATION

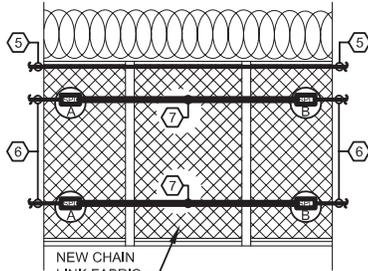


NEW ELEVATION

ELEVATION (C) E1
SCALE N.T.S.

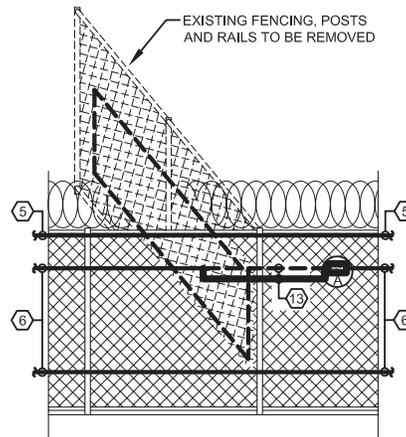


EXISTING ELEVATION



NEW ELEVATION

ELEVATION (D) E1
SCALE N.T.S.

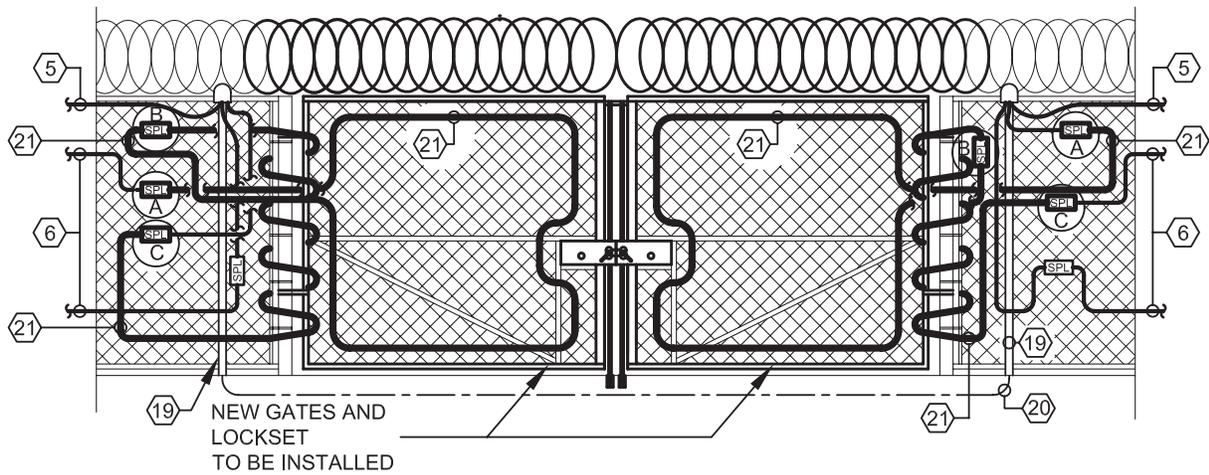
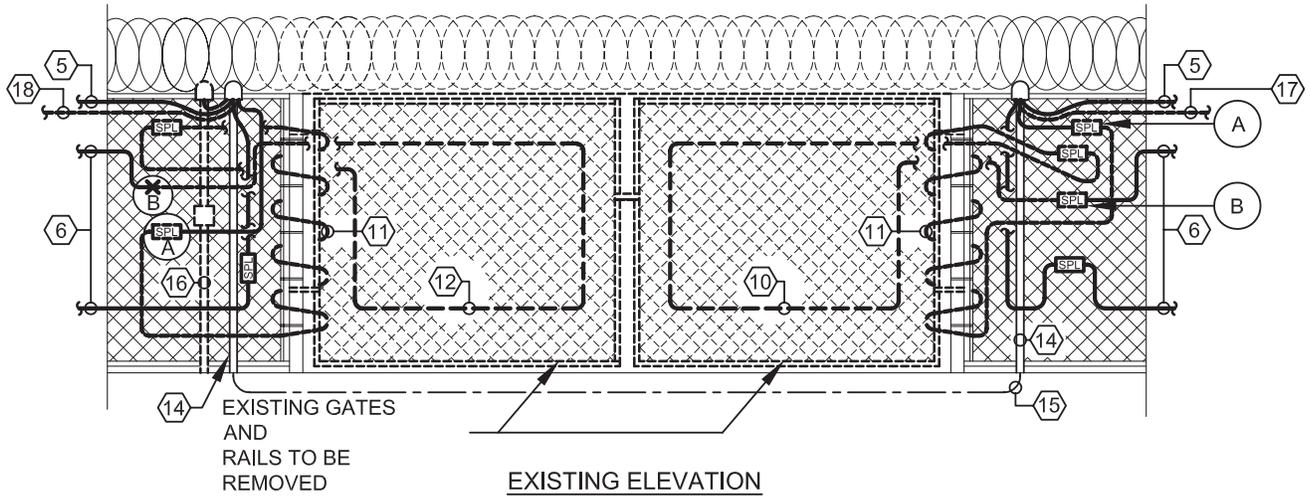


ELEVATION (E) E1
SCALE 1:50

	Public Works and Government Services Canada Pacific Region	Travaux publics et Services gouvernementaux Canada Région du Pacifique
	CORRECTIONAL SERVICE CANADA PACIFIC REGION PERIMETER FENCE UPGRADES	

drawing title FRASER VALLEY INSTITUTION REVISED ELEVATION 'C', 'D' and 'E' (REFERENCE DWG. E2-FV)

T. JEREB designed by	OCT 14/15 date
T. JEREB drawn by	OCT 14/15 date
R.071529.001 project number	SK-E2 drawing no.



ELEVATION

F
E1

SCALE
1:50

 Public Works and Government Services Canada Travaux publics et Services gouvernementaux Canada Pacific Region / Région du Pacifique	drawing title FRASER VALLEY INSTITUTION REVISED ELEVATION 'F' (REFERENCE DWG. E2-FV)	T. JEREB designed by OCT 14/15 date
	CORRECTIONAL SERVICE CANADA PACIFIC REGION PERIMETER FENCE UPGRADES	T. JEREB drawn by OCT 14/15 date R.071529.001 project number

