

October 8, 2010

Preparations for Hornby Street Separated Bike Lane Construction

The goal of the construction program for the Hornby Street Separated Bike Lane pilot program was to have the bike lane completed in time for the spring season while minimizing impact to the community during the construction program.

As part of the consultation process this summer, many local businesses told the City that they had concerns about the bike lane and the impact it would have to their operations. Staff made note to finish major construction prior to the Christmas shopping season.

The public consultation period concluded mid-September and the pilot was approved by City Council on October 5.

In order for the separated bike lane to be ready for the spring, the City developed a tight timeline for construction whereby work would begin as soon as possible pending city council approval, so that most of the heavy construction work could be complete in November, ahead of the Christmas rush, minimizing the impact on local businesses.

Given the tight timeline for construction of the pilot program, and the length of time it takes to organize and deploy work crews, resources and contractors, much of the standard paperwork and scheduling of crews was prepared in advance so that work could begin as quickly as possible should council approve the project. This is standard practice for jobs of this magnitude.

All preparations put in place prior to the council meeting had no impact on the council decision. Should council have not approved the program, none of the construction work would have been initiated and the crews would have been redeployed to other projects.

Attached to this document are some examples paperwork and other preparations made in advance of council's decision to approve the bike lane on Tuesday, October 5, 2010.

/encl.

ni? ct xa?əmətəl, tə ʔnimət, tə təmoxʷ ʔi? tə kʷaʔkʷə 1 *

We watch over the land and sea and in turn they watch over us.

September 27, 2010

TO WHOM IT MAY CONCERN

In accordance with Section 17 of the Noise Control By-law No. 6555, exception is hereby granted to the City of Vancouver - Engineering (Design & Construction), 507 West Broadway, for October 3rd, 11th, 17th, 24th, 31st, November 7th, 11th, 14th, 21st, 28th, and December 5th, 12th, and 19th, 2010, from 7:00am to 10:00am, for work on the Hornby Street bike lane. This exemption is for street work - no other construction is allowed during the exempted hours. Vehicle movements should be arranged so as to minimize the sounding of back-up warning devices. Crews are to eliminate all unnecessary noise.

It should be noted that this exception of the Noise Control By-law does not alter the applicant's responsibility to obtain whatever permits or approvals are required from other City Departments.

It is also understood that City of Vancouver - Engineering (Design & Construction) will notify all residential accommodations within a one-block radius concerning the work. The City of Vancouver - Engineering (Design & Construction) agrees that every effort will be made to keep noise to a minimum and this permit is subject to curtailment or cancellation if reasonable complaints are received.

Yours truly,



Gregor Robertson
MAYOR

cc Chief Constable
City Engineer
Noise Control Officer

PERMIT REQUESTED BY: Harley Machielse - 604-871-6680



CITY OF VANCOUVER

NOISE BYLAW EXCEPTION APPLICATION

A non-refundable application fee of \$75.00 and a completed application form is required five (5) working days prior to the date of the proposed activity. Applicants will be contacted regardless of consent or denial of their request. Inquiries: 604.873.7753

City of Vancouver, Revenue Services, 453 West 12th Ave, Vancouver, BC V5Y 1V4
Payment method: Cash, Debit, Cheque, Visa, MasterCard, American Express
Credit Card payments may be mailed or faxed to 604-873-7051

Credit Card Type (circle one)	Visa	MasterCard	American Express
Credit Card # _____	Expiry Date _____	Signature _____	

Name of Applicant Harley Machielse New application
 Address of Applicant City Hall ^{Design & Construction} Engineering Extension of existing application (no charge)
 Site of Work or Event Hornby St Building Permit # _____

Date Exception Required: FROM 10/10/05 (YY/MM/DD) TO 10/12/10 (YY/MM/DD)

Time Exception Required: FROM 7:00 (AM/PM) TO 8:00 (AM/PM)

Describe the Source of Noise Trucks backing up, hammering, small tool noise, paving

Describe the reason why this exception should be given:
Council priority to complete Hornby's separated bike lanes by mid-December. In order to complete the work, crews will need to work weekends on an as and when needed basis.

State measures planned or presently being taken to minimize the sound or noise:
Major construction will try to be deferred until later in the morning.

The exemption is for Sundays from 7:00am to 10:00am and holidays Oct 11 & Nov 7 (7am-8pm)

Signature of Applicant [Signature] Date Sept 23/10

Contact Name Harley Machielse, Streets Design
Phone # 604 871 6680

CASHIER STAMP AREA	

For office use only	
Misc Misc (code 52)	
Business Area	9200
Account	490200
Cost Centre	91220

Judd, Peter

From: Manarin, Doug
Sent: Friday, October 08, 2010 1:12 PM
To: Dobrovolny, Jerry
Cc: Judd, Peter
Subject: RE: Noise Variance Process

It currently takes 1-2 weeks to receive an approved noise variance from the date of application to CSG.

Doug

Jerry Dobrovolny, P.Eng., MBA
Director of Transportation

-----Original Message-----

From: Manarin, Doug
Sent: Friday, October 08, 2010 10:01 AM
To: Dobrovolny, Jerry
Subject: Noise Variance Process

Standard process is followed for noise variances (City and public):

- 1) Application for noise variance form is completed (see attached)
- 2) Form is forwarded to the Noise Division (Community Services - Licences & Inspections - Administration Branch)
- 3) The Noise Division reviews the application, and determines if it will be approved.
- 4) If approved, the noise variance is then forwarded to the Mayor for signature.

Doug

Dobrovolny, Jerry

From: Machielse, Harley
Sent: Friday, October 08, 2010 12:55 PM
To: Dobrovolny, Jerry
Subject: Fw: Hornby St Project : CMS Boards - Email #1

Fyi

From: Jenn [mailto:Jenne@inprotectsystems.com]
Sent: Friday, October 01, 2010 03:52 PM
To: Walls, Joe
Cc: Terry <Terryh@inprotectsystems.com>; Kevin <Kevinw@inprotectsystems.com>; Campbell, Barbara; Machielse, Harley; Chow, Linda; Chou, Winston; Edwards, Scott
Subject: RE: Hornby St Project : CMS Boards - Email #1

Hi Joe,

Received this one and will wait for further instructions from you on Tuesday.

From: Walls, Joe [mailto:joe.walls@vancouver.ca]
Sent: Friday, October 01, 2010 3:50 PM
To: Jenn
Cc: Terry; Kevin; Campbell, Barbara; Machielse, Harley; Chow, Linda; Chou, Winston; Edwards, Scott
Subject: Hornby St Project : CMS Boards - Email #1

Hi Jenn,

Thank you for your assistance on this project. I must preface this email with the condition that the Hornby St project is contingent on a City of Vancouver Council approval. Consequently, this request is subject to cancellation.

Should council approve the Hornby St project on Tuesday Oct 5th, then your services would be required and we would aim to have the boards in place and operational by 7am on Wednesday Oct 6th. Should Council not come to a conclusive decision on the project by Oct 5th, then it would go back for a further meeting on Oct 7th. If at that time it were approved, then your services would be required and we would aim to have the boards in place and operational by 7am on Friday Oct 8th. I will keep you up to date and confirm as soon as I know on Tuesday where it stands.

I will be sending this in two separate emails as to not overload your inbox and ensure mail delivery. Please find attached the specific locations and messaging (messages to be displayed for 1.5sec with a 0.3sec blank flash):

<<Hornby bikeway cms board and advisory sign locations.pdf>> <<Hornby bikeway CMS board layouts.pdf>>
<<01 - Kingsway & 12th.pdf>> <<02 - Hastings & Dunlevy.pdf>> <<03 - 4th & Cypress.pdf>> <<04 - Broadway &

10/8/2010

Dobrovolny, Jerry

From: Machielse, Harley
Sent: Friday, October 08, 2010 12:57 PM
To: Dobrovolny, Jerry
Subject: Fw: Hornby Trees

Fyi

From: Machielse, Harley
Sent: Thursday, September 30, 2010 03:44 PM
To: Gandha, Amit; Niedjalski, Jim; Gilchrist, Drew
Subject: RE: Hornby Trees

Hello,

Council is still scheduled for Tuesday but there is a possibility it could be deferred until Thursday due to the amount of speakers. I will be contacting you on Tuesday regardless to either give you an account or to let you know it was deferred and not to start work.

Harley

From: Gandha, Amit
Sent: Monday, September 20, 2010 2:38 PM
To: Machielse, Harley; Niedjalski, Jim
Subject: RE: Hornby Trees

Hi Jim,

Please arrange when convenient to have trees removed based on council approval.

Hi Harley,

Will there be new trees going back in the locations, or along the bike route stretch?

Thanks,
Amit

From: Machielse, Harley
Sent: Monday, September 20, 2010 2:24 PM
To: Gandha, Amit; Gilchrist, Drew
Subject: RE: Hornby Trees

I haven't heard back.

The bulge is still on track to be removed. I don't have any indication of it changing but this project in general seems to be changing daily.

10/8/2010

Harley

From: Gandha, Amit
Sent: Monday, September 20, 2010 2:14 PM
To: Machielse, Harley; Gilchrist, Drew
Subject: RE: Hornby Trees

Hi Harley,

Has this issue been resolved?

Thanks,
Amit

From: Machielse, Harley
Sent: Thursday, September 16, 2010 4:30 PM
To: Gandha, Amit; Gilchrist, Drew
Subject: Hornby Trees

Hello,

As part of the Hornby Separated Bike Lane we will be removing eight trees on the West side of Hornby North of Pacific. The trees in question are location in a street bulge. The bulge will be removed which places the curb and gutter down the middle of the trees.

The coordination for this work is extensive and we cannot begin work prior to October 5th (Council date). However, we would like the trees removed on the 6th.

Please give me a call to discuss when you have time. We can also have a meeting to go over some of the scheduling details.

Thank you,
Harley

10/8/2010

Dobrovolny, Jerry

From: Machielse, Harley
Sent: Friday, October 08, 2010 12:53 PM
To: Dobrovolny, Jerry
Subject: Fw: Wording from the report

Fyi

From: Hirtle, Lacey
Sent: Tuesday, October 05, 2010 06:24 PM
To: Machielse, Harley
Subject: Wording from the report

Construction would begin as soon as possible following Council approval. It is estimated that the facility would be completed within 10 weeks subject to weather. Staff would commit to no construction during the Christmas period (exact dates to be confirmed with businesses in the area) to limit impact on the surrounding businesses. Staff would develop a detailed implementation plan that accommodates special events and would coordinate this work with private construction activities along the corridor.

Dobrovolny, Jerry

From: Machielse, Harley
Sent: Friday, October 08, 2010 12:52 PM
To: Dobrovolny, Jerry
Subject: Fw: Parking Meters - Hornby Separated Bike Lane
Importance: High

Fyi

From: Machielse, Harley
Sent: Tuesday, October 05, 2010 07:04 PM
To: Langley, Roy; Melten, Paul; Robson, Steve; Sirsiris, George; Somerville, Gil; Yeomans, Ralph
Cc: Edwards, Carli
Subject: RE: Parking Meters - Hornby Separated Bike Lane

We will not be starting our major construction tomorrow due to Council's late meeting and challenges around communication. As a result, **do not bag any meters on the Hornby Project until Thursday (pending approval from Council).**

The parking restriction plan is changing to reflect the change in construction. I will phone George and Paul regarding the new plan tomorrow.

Harley

From: Machielse, Harley
Sent: Thursday, September 23, 2010 3:53 PM
To: Langley, Roy; Melten, Paul; Robson, Steve; Sirsiris, George; Somerville, Gil
Cc: Brown, Ken; Kawaza, Nick; Elford, Dan; Edwards, Carli; Hirtle, Lacey
Subject: Parking Meters - Hornby Separated Bike Lane

Hello,

The separated bike lanes are scheduled to go to Council on October 5th and we plan to start construction on the 6th. If possible, we would like all the parking meters hooded in one day so Nick's crews can grind the paint lines for the entire project on the 6th. If not, below shows our priority broken up into two days.

The drawing indicates where we want permanent (red bag/remove mechanism) hooding and the locations of new meters. All the other meters on the streets need to be bagged (24hours no stopping) temporarily until the project finishes.

We will need to assess how the project is moving in the first week and decide if temporary restrictions can be lifted for specific blocks. Particularly if we anticipate a significant delay between construction activities (more than 3 days) or when a block is completed. Basically, we need to do the best we can to open blocks where possible.

Priority 1 - Hood October 5th/6th (AFTER COUNCIL APPROVAL)

Priority 2 - Hood October 6th

Burrard - Pacific to Drake ---

10/8/2010

Dobrovolny, Jerry

From: Machielse, Harley
Sent: Friday, October 08, 2010 12:54 PM
To: Dobrovolny, Jerry
Subject: Fw: Draft letter

Fyi

From: Machielse, Harley
Sent: Monday, October 04, 2010 07:55 PM
To: Fenby, Colin; Chow, Linda
Subject: Re: Draft letter

Excellent. I will wait for your final word. We have staff available to distribute the letter first thing on Wednesday pending approval from Council.

Harley

From: Fenby, Colin
Sent: Monday, October 04, 2010 06:16 PM
To: Machielse, Harley
Subject: Draft letter

Hi Harley,

Sorry I missed your calls. Attached is a draft update of the earlier version you sent, which was pretty good but have made a few tweaks throughout. It's working it's way through approvals with the City Manager and the Mayor's office and we should have word back tomorrow. My apologies for the delay.

Best regards,
-Colin

<<Hornby Notification_Oct4_2.doc>>

Dobrovolny, Jerry

From: Machielse, Harley
Sent: Friday, October 08, 2010 12:58 PM
To: Dobrovolny, Jerry
Subject: Fw: Hornby Separated Bikeway

Fyi

From: Machielse, Harley
Sent: Monday, September 27, 2010 12:42 PM
To: Chow, Linda; Walls, Joe
Subject: RE: Hornby Separated Bikeway

Correction Joe. We cant put up any signs until after Council approval.

Harley

From: Machielse, Harley
Sent: Monday, September 27, 2010 11:18 AM
To: Chow, Linda; Walls, Joe
Subject: FW: Hornby Separated Bikeway

Hi Joe,

Here is what Rich sent out last week. Also, Lacey confirmed we can put out the CMS boards early but with no message.

Harley

From: Franco, Richard
Sent: Tuesday, September 21, 2010 1:52 PM
To: Traffic Operations
Cc: Elford, Dan; Morin, Gordon; Machielse, Harley
Subject: Hornby Separated Bikeway

Attached is the Traffic signage request for the Hornby Separated Bikeway project. Also, a list of CMS board locations are also attached below.

- Granville south of 41st - N/B
- 1st south of Cornwall - N/B
- Cornwall west of Burrard - E/B
- 4th west of Burrard - E/B
- Granville Bridge south of 5th - N/B
- Cambie south of 7th - N/B
- Broadway west of Burrard - E/B

10/8/2010

Hirtle, Lacey

From: Hirtle, Lacey
Sent: Monday, September 27, 2010 10:47 AM
To: Machielse, Harley
Subject: RE: Hornby Signs

Hi Harley,

We could get the CMS boards out, but **no messaging until after Council decides.**

-Lacey

-----Original Message-----

From: Machielse, Harley
Sent: Wednesday, September 22, 2010 10:54 AM
To: Hirtle, Lacey
Subject: Re: Hornby Signs

That sounds good. Also let me know about bagging the static signs.

----- Original Message -----

From: Hirtle, Lacey
Sent: Wednesday, September 22, 2010 09:28 AM
To: Machielse, Harley
Subject: RE: Hornby Signs

I'll ask Jerry. It may be that we use the CMS boards to advertise the Council meeting date for Hornby.

-----Original Message-----

From: Machielse, Harley
Sent: Wednesday, September 22, 2010 7:24 AM
To: Hirtle, Lacey
Subject: Hornby Signs

What did we decide about the road ahead signs and the cms boards for timing. Can we bag and put them up early? Install the cms boards early without anything displayed?

Hirtle, Lacey

From: Boyd, Matthew [matt.boyd@coastmountainbus.com]
Sent: Wednesday, September 29, 2010 2:35 PM
To: Boyd, Matthew; Halliday, Sandy; Olson, Steve; Wall, Les; Opstad, Eunice; Thompson, Gord; Williams, Devon
Cc: McCune, Katherine; Robertson, Judie; Hetu, Leonard; Hirtle, Lacey; Jamieson, Rachel; O'Reilly, Teresa; Sidhu-Kambo, Harjit; Machielse, Harley
Subject: RE: C21 Field Test on Howe Street

Thanks everyone for attending today's field test. In regards to the new turning movements, everything was OK. The new movements are summarized below:

new roadway and turns:		Meets Standards	
Left turn from Beach Avenue to Howe Street	Turn	Yes:	No:
NB Howe Street to Pacific Street	Roadway	Yes:	No:
Right turn from NB Howe to EB Pacific	Turn	Yes:	No:

In regards to the re-location of the bus-stop off of Hornby, the #1 option seems to be EB Beach at FS Hornby. Gord and Les, please review and let us know if this is feasible.

We now wait for CoV City Council's decision on the fate of the Hornby Bicycle lane on October 6th. If the project is approved, then we will proceed with this permanent C21 route change which will take effect on October 25th, 2010. If the project is not approved, then we will continue status quo.

Sandy, can you please forward this information to James Kricken and the OTC Safety Committee.

Regards,
Matt

From: Boyd, Matthew
Sent: Tuesday, September 28, 2010 12:57 PM
To: Halliday, Sandy; Olson, Steve; Wall, Les; Opstad, Eunice; 'gord.thompson@vancouver.ca'; Williams, Devon
Subject: Reminder - C21 Field Test on Howe Street

Hello all,

With the possible introduction of the bicycle lane on Hornby Street, the C21 may have to be rerouted to northbound Howe between Beach and Pacific. This field test will review the safety standards of this new roadway and turning movements as well as investigate possible new bus stops on Howe Street to replace the potential loss of the stop on Hornby.

We will meet at Oakridge Transit Centre at 9:00am. The address is 949 W. 41st Ave, Vancouver ([map](#)). Please let me know if you wish to meet somewhere else.

Sandy, please arrange to have a Community Shuttle and Operator available for this time. Also, please forward this invitation to representatives of the OTC Safety Committee.

Service Planning will prepare a hand-out for the field test.

Cheers,
Matt

10/8/2010

Hirtle, Lacey

From: Ballard, Elizabeth
Sent: Tuesday, October 05, 2010 3:53 PM
To: Machielse, Harley; Hirtle, Lacey
Subject: FW: Wedgewood Hotel zone adjustments

Attachments: Wedgewood Hotel.dwg

From: Ballard, Elizabeth
Sent: Tuesday, October 05, 2010 3:39 PM
To: Luongo, Al; Yeomans, Ralph
Cc: Kawaza, Nick; Elford, Dan; Melten, Paul; Langley, Roy
Subject: FW: Wedgewood Hotel zone adjustments

Al,

Jerry wants this work done tomorrow if Council approves the bike lane tonight. There are 2 new sign designs that are being worked on right now. This needs to be coordinated with Parking Operations. I will call you to explain.

Thanks

Elizabeth

From: Hiltz, Diane
Sent: Tuesday, October 05, 2010 3:17 PM
To: Ballard, Elizabeth
Subject: Wedgewood Hotel zone adjustments



Wedgewood
Hotel.dwg (1 MB)

Hirtle, Lacey

From: Chow, Linda
Sent: Friday, October 08, 2010 1:07 PM
To: Hirtle, Lacey
Subject: FW: CMS Board Z08 - Hornby

Attachments: COVhornby st project2010.xls

As requested.

From: Walls, Joe
Sent: Friday, October 01, 2010 11:23 AM
To: Campbell, Barbara
Cc: Machielse, Harley; Chow, Linda; Chou, Winston
Subject: FW: CMS Board Z08 - Hornby

Hi Barbara,

As we discussed briefly about the upcoming "potential" project, can you please prepare to have **9 CMS boards rented and delivered** as per the attached quote from Inprotect. We are going to use 5 CMS Boards with the Jamlogics capabilities, and 4 CMS boards without.

If council approves the project on Tuesday Oct 5th, then we are aiming to have the boards in place and operational by 7am on Wednesday Oct 6th. Should Council not be able to come to a conclusive decision on the project on the 5th, then it would go back to Council on Oct 7th. If at that time it were approved, the boards could be delivered anytime on Oct 8th as the project would not commence until the following Monday.

I will send the specifics on locations, messaging, etc. directly to them for their information and CC you on the correspondence.

Many thanks,



COVhornby st
project2010.xls (...)

Joe Walls

City of Vancouver | Transportation | Traffic Management
507 W Broadway
Vancouver, BC V5Z 0B4
tel: 604.873.7689 | Fax: 604.873.7212
e-mail: joe.walls@vancouver.ca

From: Machielse, Harley
Sent: Friday, October 01, 2010 10:36 AM
To: Walls, Joe
Cc: Chow, Linda
Subject: CMS Board Z08 - Hornby

Hi Joe,

Hirtle, Lacey

From: Chow, Linda
Sent: Friday, October 08, 2010 1:11 PM
To: Hirtle, Lacey
Subject: FW: Tomorrow

As requested.

From: Lam, Jason
Sent: Tuesday, October 05, 2010 2:56 PM
To: Leisa Lowe; Mak Matesan
Cc: Mack Peters; Chow, Linda
Subject: Tomorrow

Leisa and Mack,

For tomorrow, please plan to do the travel time study, however, prior to starting, please give Linda Chow a call at 604.512.1082.

As mentioned, if the bike lane is approved, we will proceed with notice delivery. Linda will make the decision on what you will be doing tomorrow.

Thank you,

Jason Lam
City of Vancouver, Engineering Services
tel. 604.873.7912 fax. 604.873.7212

Hirtle, Lacey

From: Kenny, Ross
Sent: Friday, October 08, 2010 1:11 PM
To: Hirtle, Lacey
Subject: FW: Bicycle Counters for Hornby Street - prospective project

Attachments: Picture (Metafile)

FYI

From: Kenny, Ross
Sent: Monday, September 27, 2010 3:37 PM
To: 'Jean-Francois Rheault'
Subject: Bicycle Counters for Hornby Street - prospective project

Hello Jean Francois,

As we discussed last week, the Hornby Street bicycle lane project will be going before council next Tuesday for funding approval. **If approved**, we will be looking at purchasing 7 new bicycle counters with vehicle relays as part of the project. One of these locations is at Robson and Hornby which is the proposed location of the display. Will it be possible to install this in the short term and replace with the display later (if we go that route)?

I can give you confirmation next week in regards to the bicycle counter order. I just wanted to send this through to you so we can get in the schedule for equipment delivery and possibly have a shorter delivery time to help with our expedited construction schedule.

In regards to the display, our electrical department has raised a couple of questions. What is the power requirement for the display? We will have to work out a power supply which may be separate from our traffic control system. Is the display hardwired to receive power at 60Hz and 120 Volts? Europe runs on 240V power and we need to be sure it will be compatible.

Thanks,

Ross Kenny, E.I.T.
Project Engineer
Greenways & Neighbourhood Transportation Branch
City of Vancouver
tel: 604-871-6967
fax: 604-871-6192
email: ross.kenny@vancouver.ca



[Click Here](#)

Hirtle, Lacey

From: Chow, Linda
Sent: Friday, October 08, 2010 1:06 PM
To: Hirtle, Lacey
Subject: FW: Hornby St Project : CMS Boards - Email #1

Attachments: Hornby bikeway cms board and advisory sign locations.pdf; Hornby bikeway CMS board layouts.pdf; 01 - Kingsway & 12th.pdf; 02 - Hastings & Dunlevy.pdf; 03 - 4th & Cypress.pdf; 04 - Broadway & Burrard.pdf

As requested.

From: Walls, Joe
Sent: Friday, October 01, 2010 3:50 PM
To: 'Jenne@inprotectsystems.com'
Cc: 'Terry'; 'kevinw@inprotectsystems.com'; Campbell, Barbara; Machielse, Harley; Chow, Linda; Chou, Winston; Edwards, Scott
Subject: Hornby St Project : CMS Boards - Email #1

Hi Jenn,

Thank you for your assistance on this project. I must preface this email with the condition that the Hornby St project is contingent on a City of Vancouver Council approval. Consequently, this request is subject to cancellation.

Should council approve the Hornby St project on Tuesday Oct 5th, then your services would be required and we would aim to have the boards in place and operational by 7am on Wednesday Oct 6th. Should Council not come to a conclusive decision on the project by Oct 5th, then it would go back for a further meeting on Oct 7th. If at that time it were approved, then your services would be required and we would aim to have the boards in place and operational by 7am on Friday Oct 8th. I will keep you up to date and confirm as soon as I know on Tuesday where it stands.

I will be sending this in two separate emails as to not overload your inbox and ensure mail delivery. Please find attached the specific locations and messaging (messages to be displayed for 1.5sec with a 0.3sec blank flash):



Hornby bikeway
cms board and a...



Hornby bikeway
CMS board layou...



01 - Kingsway &
12th.pdf (1,01...



02 - Hastings &
Dunlevy.pdf (2...



03 - 4th &
Cypress.pdf (1 MB)



04 - Broadway &
Burrard.pdf (2...

If there are any questions, please do not hesitate to contact me directly on my cell at 604.240.1921. Second email to follow. Please confirm receipt of these emails.

Thanks,