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Re: Response to City Public Hearing comment 5398, 5410, 5448 - 208 Street, City of Langley. Planning File#: RZ 15-18 Development Permit Application: DP 16-18

#1 Construction/ Traffic Management Plan

The following is the response to council's comment regarding Construction / Traffic Management Plan on Public Hearing Meeting on Monday, November 19, 2018.

Sincerely,

Patrick Xu Yang Architect.AIBC *Principal, Architect* 

Nov.26, 2018

# Pacific West Architecture Inc. 5390, 5410, 5448 208 Street

**City of Langley** 

# Construction / Traffic Management Plan Rev-3



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# 1.0 Traffic Control Plan

## 1.1 Introduction

This traffic management plan is a site-specific document created for Pacific West Architecture Inc.

This document has the purpose to:

- Maintain traffic through and around the construction work site, with minimal traffic disruptions and provide provisions for local access.
- Protect the general public from inadvertent harm arising from activities during construction
- Maintain mobility of construction equipment, materials and workers in and out of the work zones.
- Comply with contractual requirements

# **1.2 Project Description**

This traffic management plan (TMP) has been drafted for the development and construction processes required the property located at 5398,5410, 5448 208 St in the City of Langley.

## **1.3 Affected Intersections**

The following intersections will be affected:

• Douglas crescent at 208 Street

# 1.4 Affected Lanes

The sidewalk and curb lane will be affected by the construction works required for the development.

## 1.5 Lane Configuration

The existing lane configuration within the work zone consists of a roadway with one (1) lane in each direction.

One lane of traffic in each direction will be maintained at all times along 208 St and local access will be maintained at all times on Douglas Crescent.

The minimum lane width shall be 3.25m.

## **1.6 Project Location**

The Site is located at 5398, 5410, 5448 208 St City of Langley, BC.



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## 1.7 Access to Site

To minimize traffic disruptions when accessing or leaving a work zone, the following procedures will be followed:

- 1. Construction vehicle operators will use good judgment when entering and exiting work zones.
- 2. Construction vehicle operators entering and exiting work zones will use 4-way flashers and/or rotating beacons.
- 3. Construction vehicle operators will coordinate with the Traffic Control Personnel to join in with the flow of traffic.

The access to the Work Site for heavy truck traffic shall only be on designated trucking routes. Trucks shall take the shortest route from the truck route to the actual Work Site.

## 1.8 Milestones

Project Start Date: Spring 2019 Project Substantial Completion: Dec/2019

## **1.9 Hours of Operation**

Pacific West Architecture Inc. has scheduled construction activities as follows:

Monday to Friday	7:00am – 5:00pm
Saturday (noise limited to 85dBA)	7:00am – 5:00pm
Sunday and Statutory Holidays	no work allowed

## 1.10 Delays / Closures

Pacific West Architecture Inc. is committed to minimizing the impact to pedestrians, and the traveling public as much as possible. At least one (1) lanes of traffic will be maintained at all times throughout construction to accommodate local residents, business and emergency services.

Pacific West Architecture Inc. will store all material and equipment inside the work area and will not interfere with the free and safe passage of public traffic, or in such a manner that it may create a hazard to the public. Pacific West Architecture Inc. will provide or construct, and maintain, temporary bridges across open trenches, temporary piping and wherever necessary, to provide vehicle and/or pedestrian access to houses, buildings, other properties and road crosswalks. Access to residential and business properties must be maintained at all times. If access is blocked during construction, an alternate access must be provided.



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In compliance of the City of Langley heavy vehicle regulations, Pacific West Architecture Inc. will ensure that all heavy trucks utilize the assigned truck routes to and from the site. Trucks shall take the shortest route from the truck route to the actual Work Site.

## 1.11 Site Length

It is 1 city block.

## 1.12 Type of Traffic

Local traffic from the Cul-de-sac along the affected roadway will experience minimal impacts. Pacific West Architecture Inc. will ensure a high level of safety and mobility for all traffic on the Road, especially at points of entry or departure by the Contractor's construction equipment. Contractors will be made aware of these time frames which are typical daily commuting - Am and Pm work times & School drop-off and pick-up time frames.

## 1.13 Speed Limits

Maximum posted work zone speed limit is 50 Km/h. Existing speed limit is 50 Km/h

## **1.14 Traffic Control Drawings**

The custom traffic control drawings developed for the project are contained in Appendix #3, and incorporate the guidelines, procedures, and specifications established in the following publications:

- Ministry of Transportation *Traffic Control Manual for Work on Roadways (2015 edition);*
- WorkSafe BC Occupational Health and Safety Regulation;

## 1.15 Key Construction Personnel

Contractor: Pacific West Architecture Inc. Main 604.267.7072 1200 West 73rd Ave (Airport Square), Suite 1100 Vancouver, BC V6P 6G5 www.pwaarchitecture.com

Title	Contact	Phone
Pacific West Architecture Inc. Principal Architect	Patrick Yang	C: 604-616-7892 pyang@pwaarchitecture.com



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Traffic Engineer	Daryl Sarauer,	W 604-513-0210
Valley Traffic Systems	P.Eng	F: 604-513-3661
		C: 778-580-7641
		daryls@valleytraffic.ca

# 2.0 Public Information Plan

# 2.1 Introduction

Pacific West Architecture Inc. will communicate in coordination with City of Langley and affected stakeholders via an Advisory Letter.

This advisory letter will be distributed to all properties within a 1 block radius which may be affected by construction not less the one (1) week and not more than two (2) weeks prior the construction. The Advisory Letter will outline the construction boundaries and general site access/egress and a contact number for the site representative for the project. For apartment Buildings with restricted access we will conduct the Building management group to ensure proper notification.

# 2.2 Construction Signage

Project signs will be installed at least one week prior to the start of work.

Construction signage (black on Diamond Grade orange reflective sheeting) will be erected as required to clearly convey messages to the traveling public. During working hours when the contractor is on the road, there also will be construction signs setup before the work zone. All signage will conform to the BC Ministry of Transportation and Traffic Control Manual for Work on Roadways (2015 edition).

# 2.3 City of Langley

The City of Langley Representative will be routinely notified of scheduled work plans during project meetings.

# 2.4 Emergency Services and Municipalities

Pacific West Architecture Inc. in coordination with City of Langley will provide Notification to all emergency services (Hospital, Police, Fire and Ambulance), all municipalities impacted by the work, transit and any other major stakeholders (see Communication Check List below) two (2) weeks prior to any changes in traffic pattern. Notification will be done by fax or e-mail.

# 2.5 Radio Stations

Not applicable



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#### 2.6 Newspapers

Not applicable.

## 2.7 Traffic Control Log

The Traffic Control Supervisor (or designate) will complete a daily traffic control log whenever traffic control measures are instituted. This log will be kept on file in the contractor's office and a copy will be made available upon request by any governing body or regulatory authority

Type of Communication	Organization	Phone	Fax/e-mail		
Phone	City of Langley- Alexis Mazerole	778-835-9724			
Phone	City of Langley - Hirod Gill	604-514-2929			
Written	BC Truckers Association	604- 888-5319	604- 888-2941		
Written	RCMP – Langley	604-514-2870			
Written	Ambulance Service BC Fatima	O:604-660-2185 C:604-2300114	media@bcehs.ca		
Written	BC Emergency Health Services	O:604-660-6897	caddatar@bcehs.ca		
Written	Langley Fire Department	604-514-2880	604-530-3853		
Written	BC Hydro Raj Sandhu	604-543-6067	raj.sandhu@bchydro.com		
Written	Fortis BC Erin Sagarbarria	604-543-6067	TBD		
Written	Shaw Bill Lo	604-629-3218	<u>bill.lo@sjrb.ca</u>		
Written	Telus Robby Kirk	6044532051	TBD		
Written	Workers Compensation Board (24h)	1 888 967-5377 1-866-922-4357	1 888 922-8807		
Phone	WorkSafeBC	1-888-621-7233	prevnop@worksafebc.com		
Phone	Langley General Hospital	604-534-4121			

### **Communications Check List**

# 3.0 Incident Management Plan

To assist in establishing the standards for incident management and response for the construction site, Valley Traffic Systems has developed Incident Management Procedures, which forms one component within the comprehensive project Traffic Management Plan.

In order to maintain a successful and effective Incident Management Plan, all incident response team members will meet specific criteria and be knowledgeable about the resources available to them. It is important for the team members to understand the importance of effective and efficient incident management procedures.



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# 3.1 Incident Definition

An incident is defined as a motor vehicle collision, with or without injuries, with the potential of: reducing public safety; reducing worker safety; and negatively impacting the existing level of service of the road(s) within and preceding the work zone. Possible sources of incidents include construction activities (including temporary traffic control activities) and/or the natural traffic activities occurring within the work zone. Examples of possible incidents might include vehicle stalls, hazardous spills, construction vehicle operators/equipment accessing/egressing the work area or damage from falling objects. Adverse weather conditions, such as heavy rain, fog or icing conditions, increase the potential for an incident occurrence.

The Traffic Supervisor will regularly drive through the work zone to monitor if any incidents have occurred within the work zone and take any measures deemed necessary to reduce risk of any incidents.

## 3.2 Obscure Hazard

The hazards known within the site are, but are not limited to:

- High vehicular volume
- Overhead utilities
- Vehicle stalls
- Hazardous spills
- Excavation drop off
- Construction vehicle/equipment accessing/egressing the work area
- Adverse weather conditions, such as heavy rain, fog or icing condition
- Car Accident
- Disable vehicle
- Emergency road repair

## 3.3 Incident Response

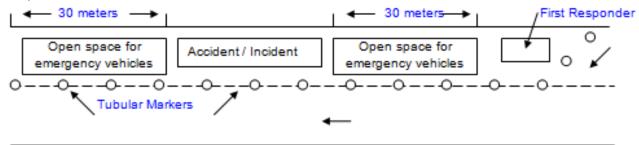
The Traffic Control Personnel will direct and coordinate the movement of traffic safely and expeditiously around incidents and will assist in providing access to and from the incident for emergency vehicles. If the incident results in a full blockage of the road right-of-way, then the area will be secured to ensure public and worker safety. Incident Management will be carried out regardless whether the contractor is or is not onsite.

The following steps will be carried out to assist and minimize the impacts to all affected:

- 1. Secure area by stopping traffic a safe distance and re-direct traffic from the obstruction. Manage traffic using proper traffic control devices and traffic control techniques.
- 2. If necessary, arrange for first aid and emergency evacuation of injured persons.



- 3. Report all breakdowns to the Foreman.
- 4. Traffic Control Supervisor will notify emergency personnel of the accident. The following authorities are listed in priority sequence:
- 5. Call 911 (Fire Services, Ambulance, and/or RCMP will be dispatched)
- 6. Call the City of Langley Representative
- 7. Remove the obstruction from the traveled road right-of-way.
- 8. Restore traffic as soon as possible using proper traffic control devices and traffic control techniques.
- 9. Manage traffic accommodations and work with the foreman to minimize the impact on traffic patterns (this may involve stopping work and removal of traffic accommodations until the incident has been mitigated and vehicle queues have cleared).
- 10. Gather as much information as possible about the incident (i.e. time, date, pictures, etc.).
- 11. The first responder to arrive at the incident site will establish a minimum space of 30 meters ahead and behind the incident to provide adequate parking for emergency response services vehicles



12. The Traffic Supervisor will be responsible for updating the City of Langley Representative (as identified in the Comm checklist) with information with respect to traffic conditions and actions taken. As soon as the roadway is cleared the City of Langley Representative will be informed immediately.

Pacific West Architecture Inc. shall ensure access to existing fire hydrants is available at all times and to liaise with fire department regarding direction of access to hydrants.

Pacific West Architecture Inc. is obligated to first response if they are working in the immediate area of the incident.

# 3.4 Notification

In the event of an incident, Emergency Services will be contacted if warranted. The Project Supervisor will inform all crews working within the area of the incident and inform them of the possibility emergency crews will be entering the work zone.



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The City of Langley Representative on the project will be notified by the TCS of all delays impacting traffic. Further, the City of Langley Representative will be notified immediately of all incidents occurring within the work zone with the following information:

- A description of the response measures taken as a result of the incident up to the time of the notification phone call;
- An explanation of further measures anticipated to achieve final clearance of the incident; and
- An estimation of the amount of time required before final clearance of the incident can be achieved.

In addition to the above, the City of Langley Representative will be notified immediately upon final clearance of the incident.

# **3.5 Review of Incidents**

An Incident Response Team consisting of Superintendent and the Traffic Control Supervisor will be formed for this project. The team members will know the importance of an effective and efficient Incident Management Plan.

After every incident within the construction zone, the Incident Management Team will meet and discuss what happened, why did it happen, how could it have been prevented and what measures will be taken on Site to help reduce similar types of incidents from occurring in the future. For Example, skid marks or devices that have been moved, knocked over, or damaged may indicate that traffic control changes are required.

The City of Langley Representative will be informed of all conclusions reached by the Incident Response Team.

Emergency Response Agencies / Assistance			
AGENCY		Emergency Contact Number	
RCMP		911	
BC Ambulance		911	
Fire Department		911	
Work Safe BC		1-888-621-7233	
Work Safe BC	After Hours	1-866-922-4357	
Provincial Emergency Program		1-800-663-3456	
BC Hydro	Power Outages & Electrical Emergencies	1-888-769-3766	
Fortis Gas	Gas Emergencies	1-866-436-7847	
Dangerous Goods Spill	Spills >100L (24/7)	1-800-663-3456	
Dangerous Goods Spill	Spills <100L (8:30 to 4:30)	1-604-360-3256	
Call Before You Dig		1-800-474-6886	

# 3.6 Emergency Contact List



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# 4.0 Implementation Plan

# 4.1 Introduction

Pacific West Architecture Inc. will at all times make provisions for traffic through the Site in accordance with contract requirements for the convenience and the safety of the workers on the Project, the safety of the traveling public, driver expectancy and the protection of the workers.

All traffic control procedures will be in accordance with the BC Ministry of Transportation Traffic Control Manual for Work on Roadways (2015 edition) and the WorkSafe BC Occupational Health & Safety Regulation Part 18. Safety Apparel and Traffic Control Retro-Reflectivity signs and devices will be as per Traffic Management Manual for Work on Highway (2015 edition)

City of Langley will be kept informed and updated when approved changes to the Traffic Management Plan are required. Unplanned closures shall be immediately notified to the City of Langley Representative.

# 4.2 Traffic Control Supervisor

The Traffic Control Supervisor (TCS) for this project TBD. The TCS or qualified designate will be responsible for all the traffic control required by this project. The person or qualified designate will be available at all times both when the contractor is working and during weekends or other periods when the contractor's forces are not active on the project. The site shall be checked a minimum once every per day whether there are construction activities or not. The TCS or qualified designate will respond to calls from the police, City of Langley or any other stakeholder concerning traffic control and shall remedy any deficiencies in a timely manner.

The TCS or qualified designate will also be responsible to ensure that:

- 1. Daily traffic control logs are completed.
- 2. The required traffic control devices are in place as per the traffic management plan and that these devices are properly maintained and checked during the hours of construction and will be checked to ensure that all traffic control devices are in place during non-working hours at least once.
- 3. The original intent of the traffic control plan is maintained.
- 4. To ensure that each member of the traffic control operation wears the required personal protective clothing and equipment as per WorkSafe BC regulations.
- 5. All Traffic Control Personnel (TCP) during active work hours are positioned in a safe location clear of all potential hazards.
- 6. All TCP are performing their duties competently and safely.
- 7. All signs will be maintained regularly to allow for maximum visibility. All signs will remain clear of dirt and any other materials, which may reduce their visibility.



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- 8. Revisions to the traffic control plan and minor changes to accommodate site conditions are finalize with the Traffic Engineer.
- 9. All changes and adjustments will be recorded and submitted daily and/or weekly to the Project Site Office and made available upon request.
- 10. If an incident occurs, the TCS will respond immediately in a safe and proper manner, in accordance with the Incident Management Plan (Section 3.0).
- 11. Records of inspections and changes will be maintained by the TCS throughout the project.
- 12. Have full line of authority over all of the traffic control personnel on site.
- 13. Direct the implementation of the traffic control plan, public information plan, and incident management plan.
- 14. Traffic operations are monitored to determine the effectiveness of the traffic control plan.
- 15. Ensure compliance with the requirements of Part 18 of the WCB Occupational Health and Safety Regulation regarding supervision of traffic control persons at the work zone.
- 16. Attend regular meetings with the City of Langley Representative to discuss performance, issues and plans.
- 17. Not be the Construction Manager or Project Superintendent
- 18. Oversees modifications to the Traffic Management Plans
- 19. Ensure the Traffic Management Plan is up to date.

# 4.3 Traffic Control Personnel

- 1. All TCP will be qualified to perform this job and have valid certification from an acceptable body to the Ministry Representative.
- 2. All TCP will at all times adhere to the BC Ministry of Transportation Traffic Management Manual for Work on Roadways (2015 edition) and WorkSafe BC Regulations.
- 3. TCPs quickly become familiar with their work zone, assess the Traffic Management Plan through the eyes of a visiting driver who is arriving at the zone in the worst foreseeable conditions. This will help them to anticipate traffic control issues and identify required changes to the Traffic Control Plan.
- 4. TCP will implement the set up and take down of lane closures and/or detours.
- 5. TCP will work together as a team when working in groups of two or more.
- 6. TCP will understand and follow the Traffic Management Plan.
- 7. TCP will communicate with the traveling public effectively by using standard traffic control motions and signals that are precise and deliberate to be clearly understood by road users.
- 8. TCP will assist pedestrians and cyclists through the work zone.

# 4.4 Signage

- 1. All signage and supports shall conform to the BC Ministry of Transportation Traffic Control Manual for Work on Roadways (2015 edition).
- 2. Signage will be located as shown in the Traffic Control Drawings found in this document- see Appendix 3



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- 3. Long term signs will be post-mounted and mounted at approximately the same height and position as permanent installations. Signs required for short-term duration operations shall be mounted on windmaster portable sign stands or equivalent.
- 4. Any permanent signs that conflict with the work of this project will be covered or removed while it conflicts and will be uncovered or reinstalled at the end of the Work.
- 5. All signs will be maintained regularly to allow for maximum visibility. All signs will remain clear of dirt and any other materials, which may reduce their visibility.
- 6. All signage will be set up so as to command the respect of vehicles, cyclists and pedestrians in order to ensure the safety of both the traveling public and the workers.

# 4.5 Access and Egress from Work Zone

To minimize traffic disruptions when accessing or leaving a work zone, the following procedures will be followed:

1. Construction vehicle operators shall proceed under the direction of a TCP to help them in and out as required.

2. Construction vehicle operators entering and exiting work zones will use 4-way flashers and/or rotating beacons.

Access to business/residences shall be maintained at all times.

# 4.6 Truck Staging

The staging area for trucks will be staged adjacent to the site so as to not affected vehicular traffic movements in the area. For the smaller utilities works such as watermains and tie ins the staging area is planned to be within the worksite.

## 4.7 General Considerations

All traffic control will be implemented to minimize disruption to traffic flow and to provide maximum safety to traveling public, cyclists and workers.

Lane Closures may be curtailed by the City of Langley Representative if there is serious inconvenient to traffic such and significant queuing or delays. In the event of a traffic incident or an emergency, the Contractor shall vacate any traffic control measures if this lane is occupied by him, to allow the lane to be reopened to traffic.

The traveling public will encounter an advance warning area, which will allow them time to adjust their driving pattern before they encounter any traffic delays or detours.



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Pacific West Architecture Inc. will provide access to emergency vehicles through the site at all times.

All accepted changes or modifications to the Traffic Management Plan will be submitted to the City of Langley for approval.

All C-4 and C-1 signs will have flags attached to the top.

Permanent signage, which conflicts with construction signage will be either removed or covered up. It must get approval from the City and reinstated after.

All Construction signs will conform to the Technical Circular T-09/05 (Revised in March 2, 2006 and issued in September 16, 2005

Pacific West Architecture Inc. shall use Moduloc Fencing to separate all active construction zones from pedestrian and vehicle traffic using flaggers as required. Fencing will be positioned back of any sidewalk/ pedestrian walkways to ensure all trip hazards are eliminated.

Pedestrian access along 208 Street to be maintained during construction of frontage and sidewalk works.

Parking arrangements will be coordinated with St. Josephs Catholic Church. Parking requirements will vary dependent on scheduled trades requirements for the construction site.

## 4.8 Dust and Dirt Control

The paved surface or gravel surface shall have dust control measures to ensure visibility.

All loose dirt, gravel, and debris are to be removed from the trucks prior to departing the site. To ensure the roadways are clean and free of dust, dirt, and debris, the Contractor will complete daily manual road-sweeping activities. The Contractor will also complete motorized road-sweeping activities as often as required to ensure that the area immediately adjacent to the construction site is kept clean.



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# APPENDIX # 01 Daily Traffic Control Log



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# **Daily Traffic Control Log**

Northbound	Southbound
Time Removed:	
Northbound	Southbound
Time Removed:	
	Northbound Time Removed:



Date:	 Page	of
Notes:		

Signature of Traffic Supervisor



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# APPENDIX # 02 Incident Report Form



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Incident Management Report Date of Incident (dd/mm/yy): Date of Report (dd/mm/yy):				
Incident Report by	Signature:			
Type of Incide	nt: Fire Motor Vehicle Accident Other:			
Direction of Incid	ent:       Road Name:       Northbound       Southbound         Eastbound       Westbound			
Key Times:	Time Incident Occurred:			
	Time Incident Cleared:			
Location Description /				
Construction I	Related: Yes No			
Photologged:	Yes No			
Description	Number of Vehicles			
of Incident, if MVA	Types of Vehicles			
Emergency Services:	RCMP Attended   Yes   No   File #     Ambulance Attended   Yes   No     Fire Trucks Attended   Yes   No			
	Injuries or Fatalities Yes No If Yes, which:			



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Comments:			
Distribution:	Within 24-hour to Project Team:		
	Construction Project Manager	]	
	Construction Project Supervisor	[	
	Construction Project Supervisor	[	
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# APPENDIX # 03 TRAFFIC CONTROL PLANS



