



Columbia Avenue / Washington Infrastructure Improvements

Council Presentation

October 24, 2011





Presentation Overview

- Project Overview and updates
- Community benefits
- Project phasing
- Cost estimate
- Project funding
- Construction staging
- Closing remarks
- Questions





Project overview

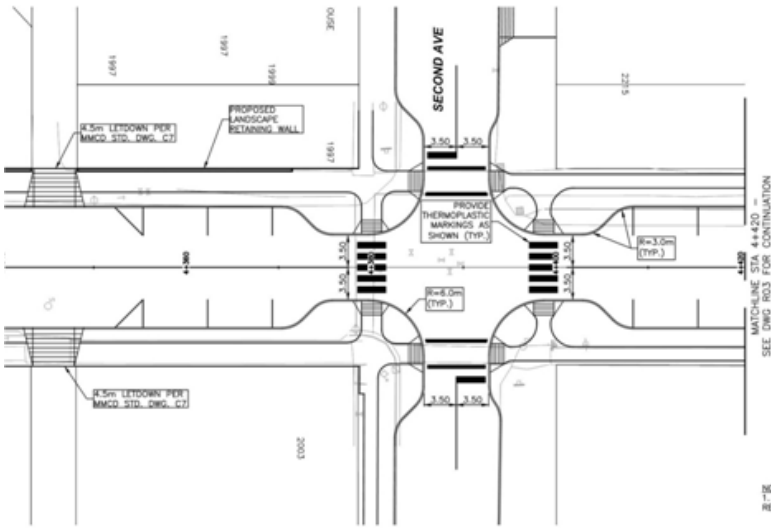
Washington Street

- Road Safety Improvements
- Utility upgrades
- Continuity with Columbia

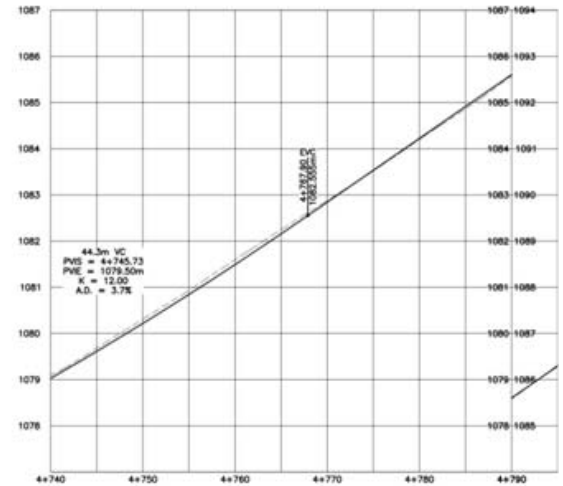
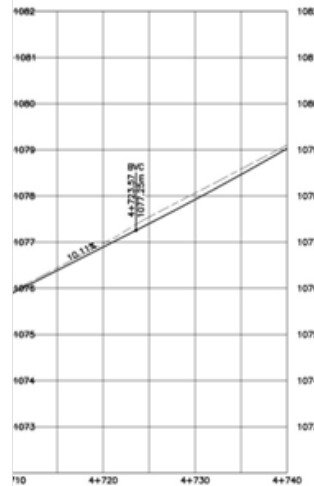
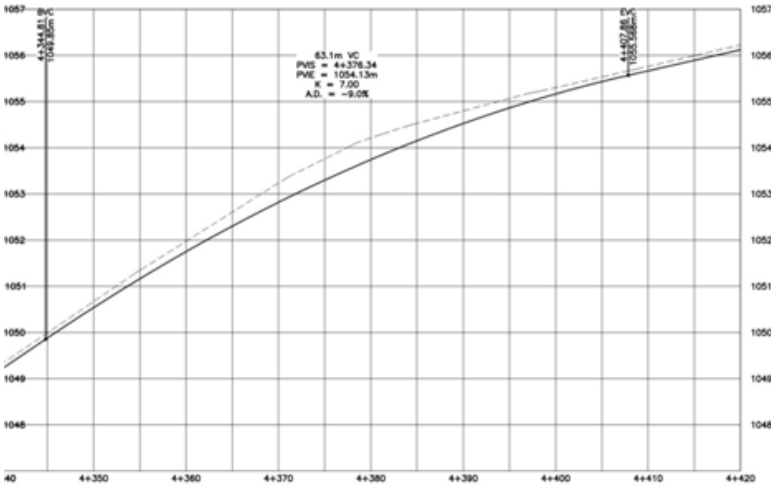
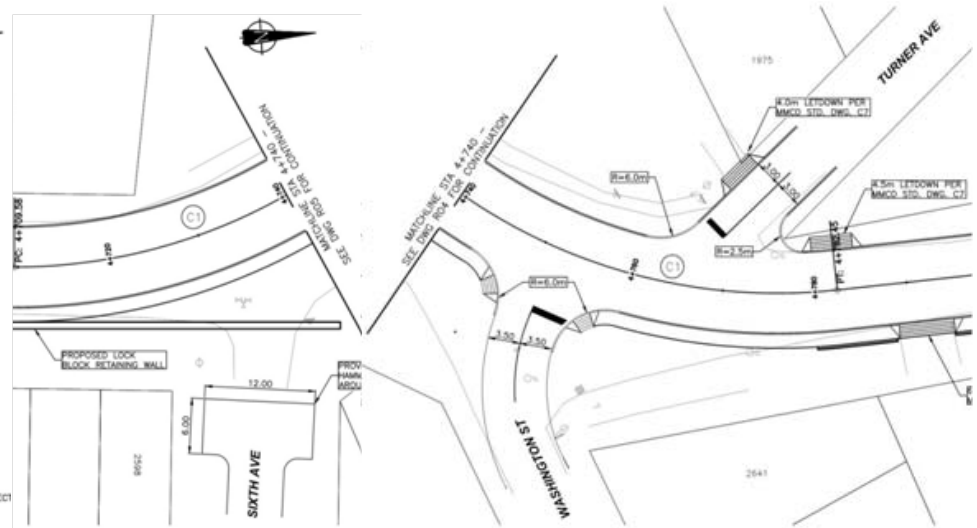
Columbia Avenue

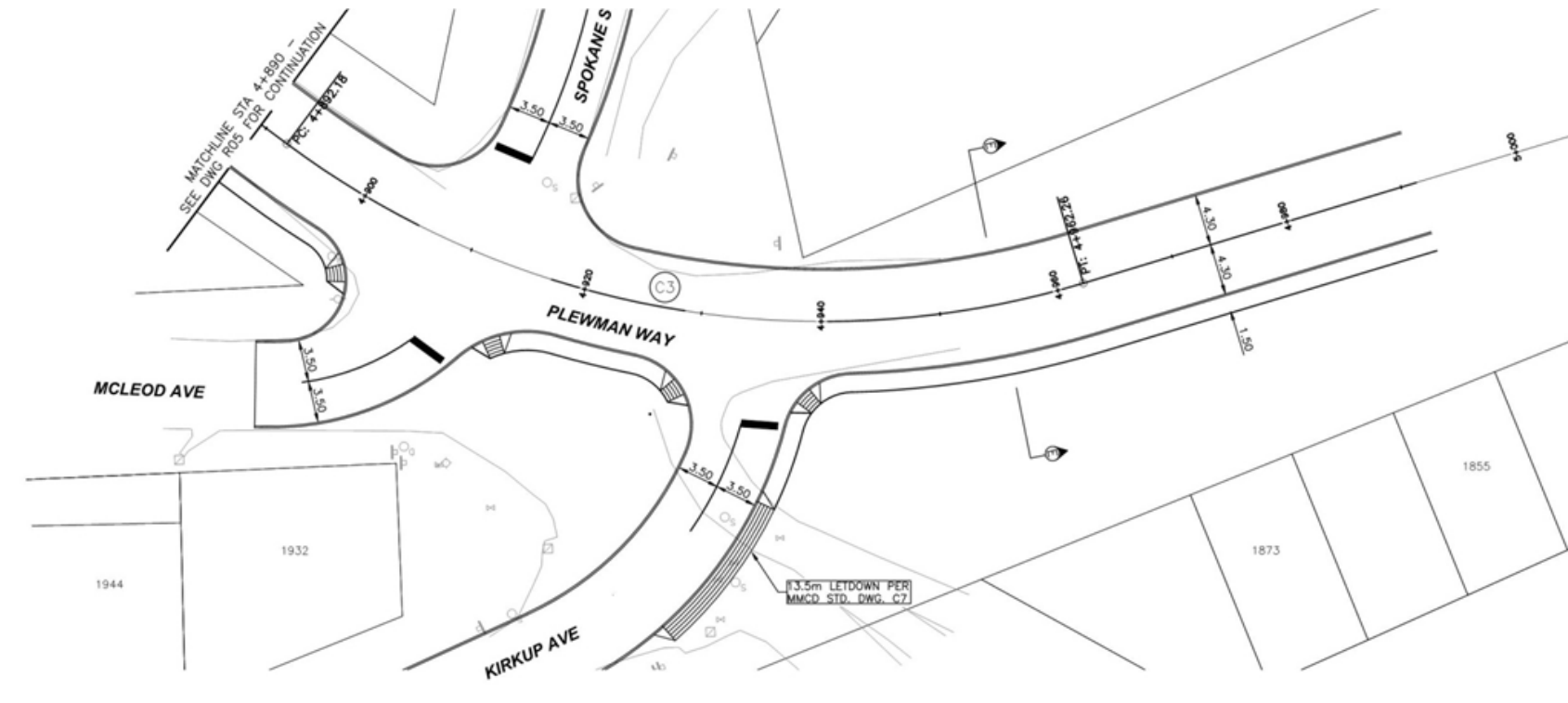
- Through traffic movements integrated with local requirements
- Traffic Calming/Pedestrian accommodation
- Parking
- Utility Upgrades
- Streetscape





NOTE: 1. FOR TYPICAL CROSS SECT REFER TO DRAWING R07







Detailed Design Update

Changes Since Concept Design

Washington

- Added pedestrian access on both sides of road with landscape
- Adjustment of the Plewman Intersection

Columbia

- Negotiated bulb outs with MOT and reached an agreement
- Formalized crossing locations with MOT (three dedicated crossings)
- Confirmed design of concrete drainage swales
- Project limits have been adjusted (not including rock bluff)
- Two bus stops at Columbia and Spokane





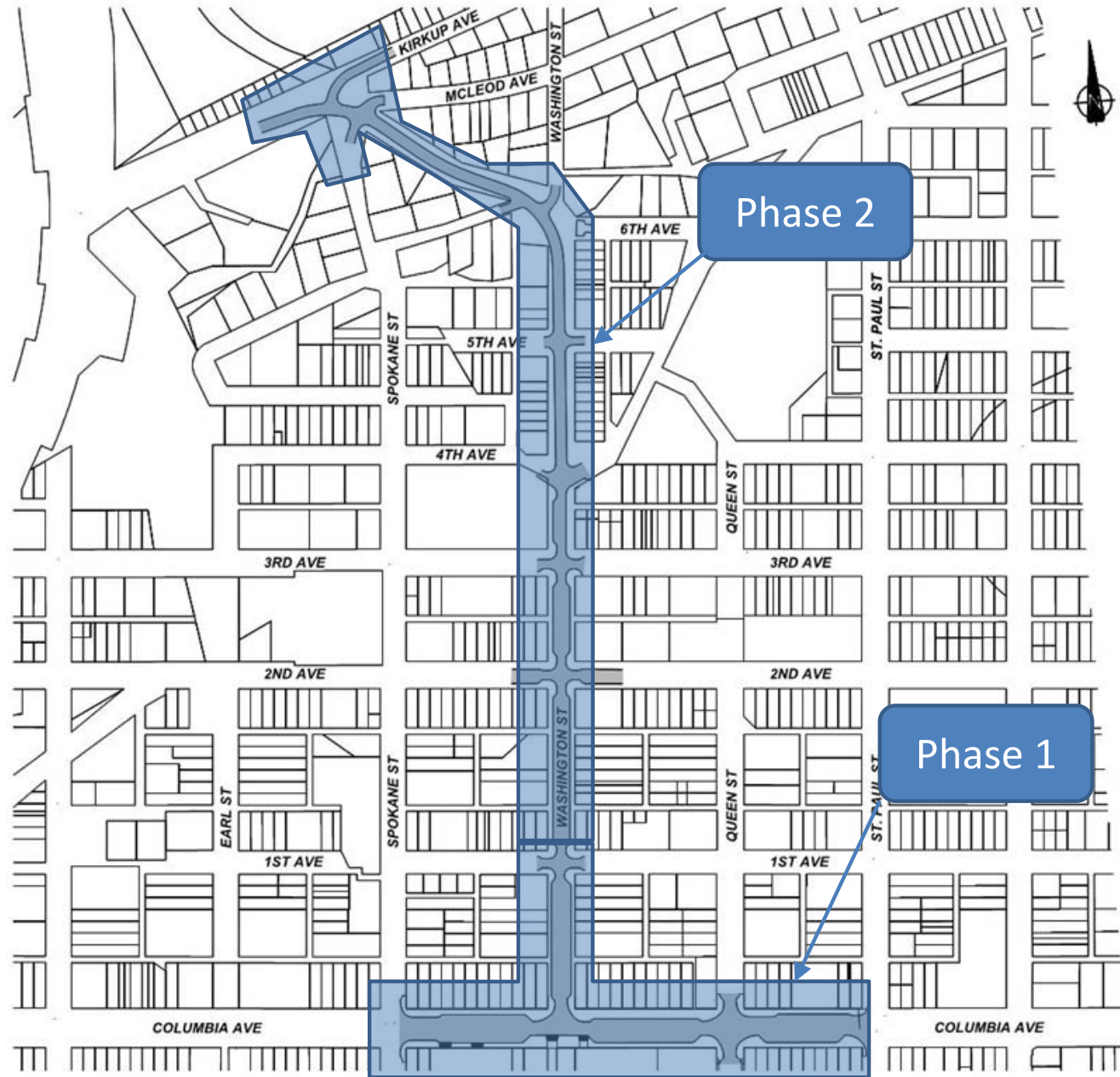
Community Benefits with Streetscape Improvements

- Focal point of the community
- Supports programming activities
- Improves existing gathering locations
- Improves linkages to and through the down town core
- Provides way finding to local destinations
- Raises the profile of the City

Economic Benefits

- Increases property values
- Increase draw for new businesses with potential for commercial infill
- Longer exposure to store fronts
- Attracts visitors by creating a boutique shopping atmosphere







Cost Estimate – Phase 1

Columbia Ave - St. Paul's Street to Spokane Street
Washington Street - Columbia Ave to 1st Ave

DESCRIPTION OF WORK	AMOUNT
COLUMBIA STREET	
GENERAL	\$120,432.00
GRADING	\$391,451.40
PAVING	\$410,092.20
DRAINAGE ROADWAY	\$71,700.00
DRAINAGE SITE SERVICING	\$200,000.00
SANITARY	\$400,000.00
WATERMAIN / IRRIGATION	\$400,000.00
SIGNING AND PAVEMENT MARKINGS	\$30,548.00
LANDSCAPING/STREETSCAPING	\$997,494.08
PROVISIONAL SUMS	\$150,000.00
ELECTRICAL	\$450,000.00
SUBTOTAL	\$3,621,717.68
WASHINGTON STREET - COLUMBIA TO 1ST	
LANDSCAPING/STREETSCAPING	\$100,000.00
PAVING/ROADWORKS	\$195,000.00
DRAINAGE ROADWAY	\$46,000.00
DRAINAGE SITE SERVICING	\$9,000.00
SANITARY	\$95,000.00
WATERMAIN / IRRIGATION	\$130,000.00
ELECTRICAL	\$50,000.00
SUBTOTAL	\$625,000.00
CONSTRUCTION ESTIMATE	\$4,246,717.68
ENGINEERING CONSTRUCTION SERVICES	\$300,000.00
CONTINGENCIES	\$454,671.77
TOTAL ESTIMATE COLUMBIA	\$5,001,389.45





Cost Estimate Phase 1

MOT / City of Rossland Cost Sharing



Ministry of
Transportation
and Infrastructure

DESCRIPTION OF WORK	AMOUNT	PROVINCIAL SHARE	PROVINCIAL AMOUNT	MUNICIPAL SHARE	MUNICIPAL AMOUNT
SECTION 1 - GENERAL	\$120,432.00	66%	\$79,485.12	34%	\$40,946.88
SECTION 2 - GRADING	\$391,451.40	98%	\$383,135.20	2%	\$8,316.20
SECTION 3 - PAVING	\$410,092.20	90%	\$367,792.20	10%	\$42,300.00
SECTION 5 - DRAINAGE AND UTILITIES	\$71,700.00	50%	\$35,850.00	50%	\$35,850.00
SECTION 6 - SIGNING AND PAVEMENT MARKINGS	\$30,548.00	100%	\$30,548.00	0%	\$0.00
SECTION 8 - PROVISIONAL SUMS	\$150,000.00	66%	\$99,000.00	34%	\$51,000.00
CONSTRUCTION CONTINGENCY	\$117,000.00	66%	\$77,220.00	34%	\$39,780.00
CONSTRUCTION ESTIMATE COLUMBIA ROADWORKS	\$1,291,223.60	83.1%	\$1,073,030.52	16.9%	\$218,193.08
CONSTRUCTION SUPERVISION	\$115,000.00	64%	\$73,600.00	33%	\$37,950.00
ENGINEERING DESIGN	\$200,000.00	85%	\$170,000.00	15%	\$30,000.00
PROJECT MANAGEMENT	\$40,000.00	100%	\$40,000.00	0%	\$0.00
CONTINGENCIES (LTC, SUPERVISION, DESIGN & PM)	\$36,000.00	--	\$28,000.00	--	\$7,000.00
TOTAL ESTIMATE COLUMBIA ROADWORKS	\$1,682,223.60	82.3%	\$1,384,630.52	17.4%	\$293,143.08





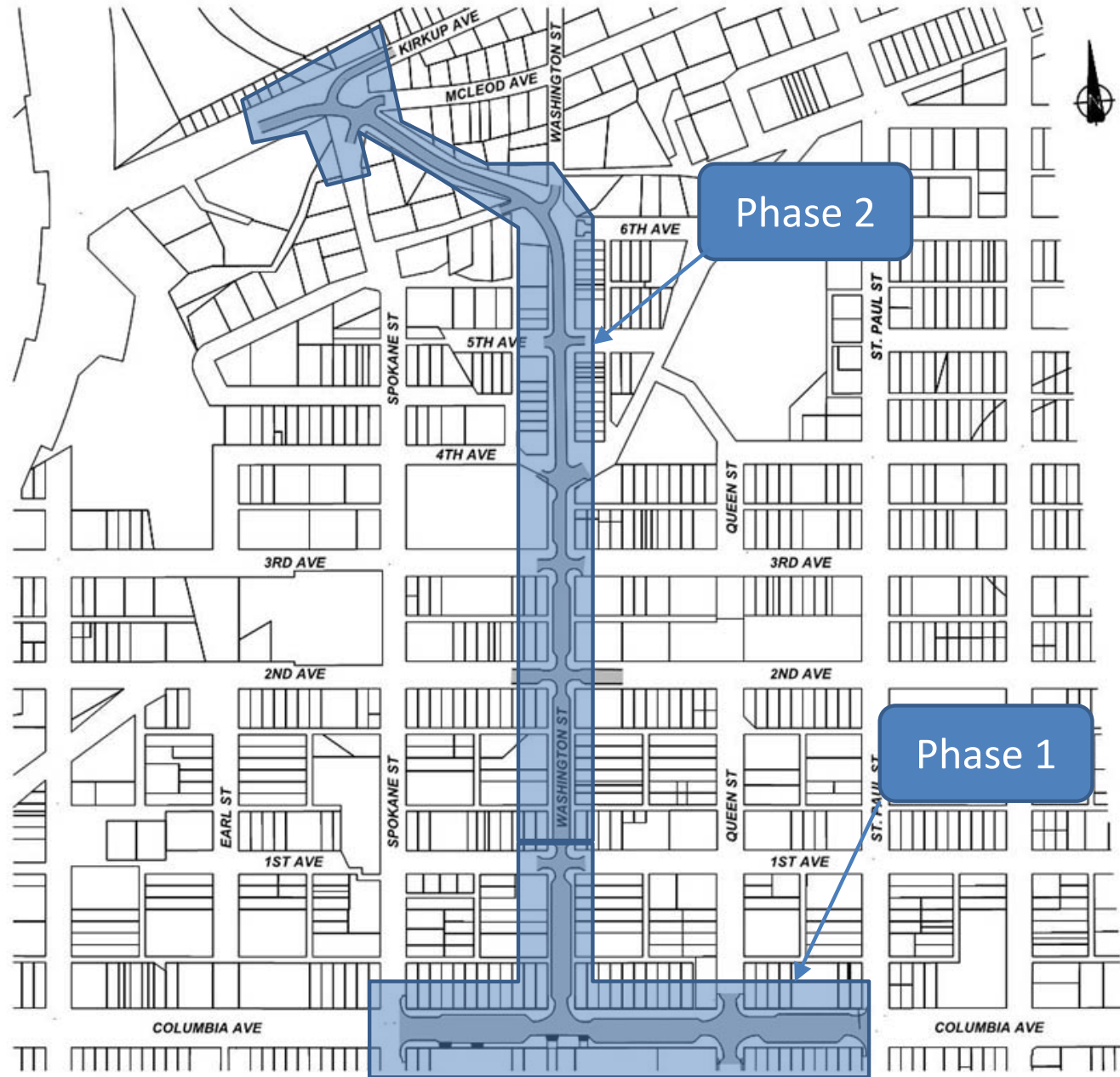
Cost Estimate – Phase 1 Summary

Columbia Ave - St. Paul's Street to Spokane Street

Washington Street - Columbia Ave to 1st Ave

WASHINGTON STREET - COLUMBIA TO 1ST	\$625,000.00
CONSTRUCTION TOTAL COLUMBIA	\$3,621,717.68
MOT CONTRIBUTION	(\$1,384,631.00)
ENGINEERING CONSTRUCTION SERVICES	\$300,000.00
CONTINGENCIES	\$454,671.77
CAPTIAL COST	\$3,616,758.45





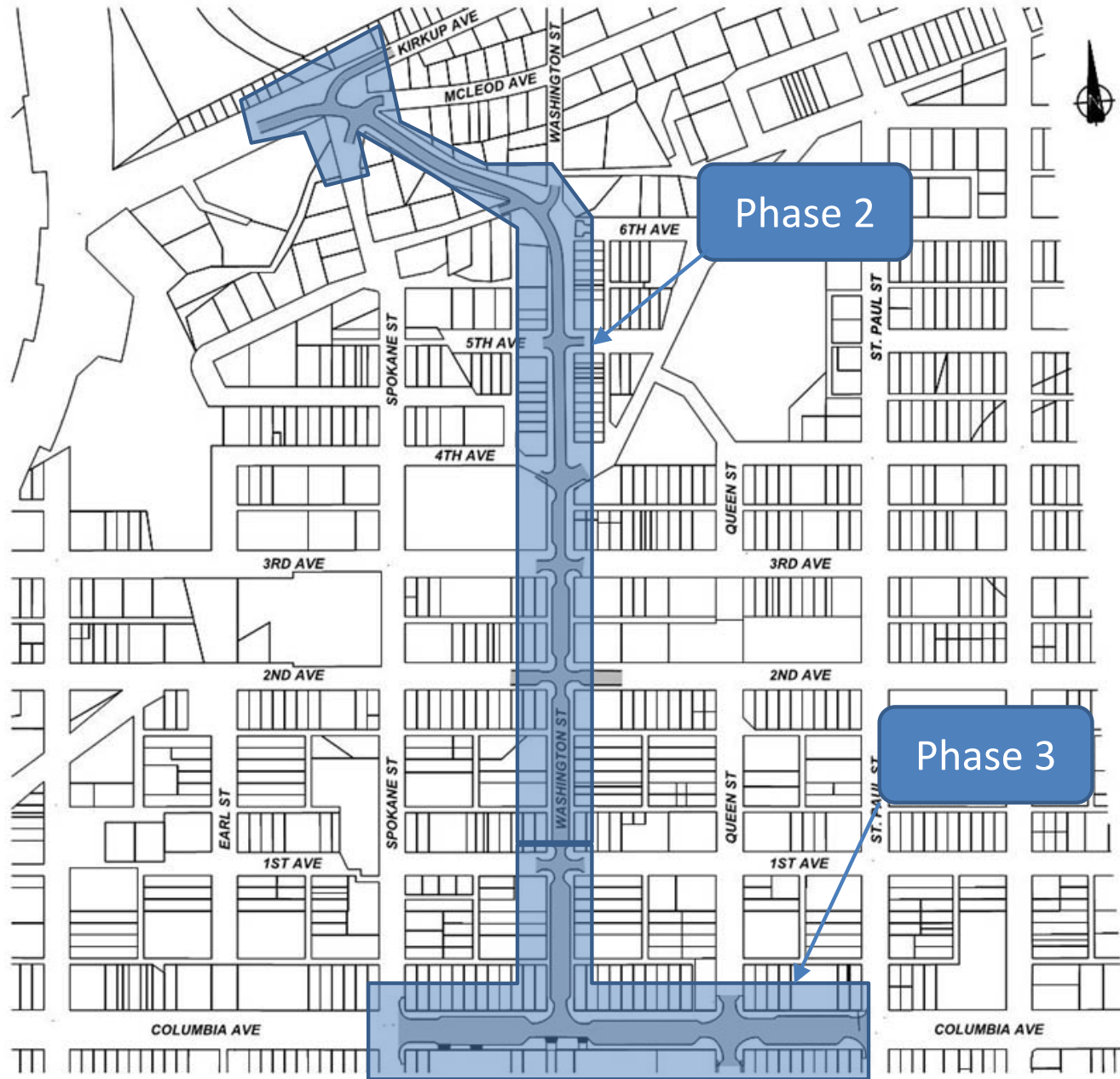


Cost Estimate – Phase 2

Washington Street - 1st Ave to Kirkup Avenue

DESCRIPTION OF WORK	AMOUNT
WASHINGTON STREET - COLUMBIA TO 1ST	
CONCRETE CURBS/SIDEWALKS/RETAINING WALLS	\$425,000.00
ROADWORKS	\$882,000.00
DRAINAGE ROADWAY	\$160,000.00
DRAINAGE SITE SERVICING	\$331,000.00
SANITARY	\$351,000.00
WATERMAIN / IRRIGATION	\$595,000.00
SIGNING AND PAVEMENT MARKINGS	\$12,000.00
LANDSCAPING/STREETSCAPING	\$215,000.00
ELECTRICAL	\$350,000.00
CONSTRUCTION ESTIMATE	\$3,321,000.00
ENGINEERING CONSTRUCTION SERVICES	\$125,000.00
CONTINGENCIES 10%	\$344,600.00
TOTAL ESTIMATE COLUMBIA	\$3,790,600.00







Cost Estimate – Phase 3

Columbia Ave - St. Paul's Street to Spokane Street

DESCRIPTION OF WORK	AMOUNT
WASHINGTON STREET - OPTIONAL	
IRRIGATION TANK	\$150,000.00
SUBTOTAL	\$150,000.00
COLUMBIA AVE - OPTIONAL	
BOARDWALK	\$40,000.00
HOPE SPRINGS PARK	\$50,000.00
PEDESTRIAN PARK	\$86,000.00
SUBTOTAL	\$176,000.00
CONSTRUCTION ESTIMATE PHASE 3	\$326,000.00





Cost Estimate – Summary

PHASE 1 - COLUMBIA AVE	\$5,001,389.45
PHASE 2 - WASHINGTON	\$3,790,600.00
PHASE 3 - OPTIONAL WORKS	\$326,000.00
SUBTOTAL	\$9,117,989.45
MOT CONTRIBUTION	(\$1,384,631.00)
TOTAL CAPITAL	\$7,733,358.45

*Current grant applications total 8.5 million an announcement is expected prior to Christmas





Construction Impacts / Mitigation

- Business / pedestrian Access
 - Access from rear of store
 - Fenced walkways along roadway
 - Gravel Pathways
- Traffic
 - Localized parking restrictions
 - Shifting traffic lanes to accommodate construction
 - Stage construction / construct bulb outs last
- Trenching
 - Some lane closures for crossings





Discussion

