

542/817

Jubilee Street Extension

COSTS (Costs net of thirds-party contributions in brackets)

Total	Renewal	Backlog	Unallocated	Growth
\$540,492	\$108,098	\$185,929	0	\$246,464
(\$280,663)	(\$56,133)	(\$96,548)		(\$127,982)

COST ALLOCATION

Primary Driver:	HVM movements continue on local roads in the area, intruding in to the residential zone. B-trains accessing the business area will continue to experience problems turning
Secondary Driver:	
Capacity discussion:	
References:	

ATTRIBUTES

Project Manager:	Chris Collins
Work Planned:	Construct new section of Jubilee St from Bamford to Rutherford St. Improvements to Barton St/Bamford St intersection.
Location:	New section of Jubilee St from Bamford to Rutherford Sts
Special features being addressed:	Provide access to B5 zone that is currently landlocked by residential land local roads. Provide a high standard of access to Jubilee St extension with provision for B-train turning.
A statement of the outcomes being addressed (LoS, Community Outcomes):	Improved network efficiency Improved Level of Service Reduction in adverse effects on residents (noise, vibration)

Options considered:	Do nothing Two options for treatment of Barton St/Bamford St intersection.
Implications of not doing the project:	HVM movements continue on local roads in the area, intruding in to the residential zone. B-trains accessing the business area will continue to experience problems turning
Linkages with other projects:	
Location of other relevant supporting information:	Contract number 02/03-87 Section 1 General Clauses 1-3. Memo from Brian Neill to Chris Collins 27 June 2001. Options Plan 02/10/01.

Project Cost Allocation Summary

Background

Project No	542/817	Activity	Transport and City Streets
Project Name	Jubilee Street Extension		
Project Manager	Chris Collins		
Year first spend on the project	2001	Project Scope	Construct new section of Jubilee St from Bamford to Rutherford St. Improvements to Barton St/Bamford St intersection.
Year of first cost allocation	2006		
Year of current cost allocation	2006		
Project cost	\$540,492		

Level of Service Definitions

Measure	Ratio	Primary Driver	HVM movements continue on local roads in the area, intruding in to the residential zone. B-trains accessing the business area will continue to experience problems turning
Existing Capacity	100.0		
Existing Demand	143.0		
Total Capacity	200.0	Secondary Driver	
Design Capacity Year	2026		
End of Life Year	2041		
Backlog Capacity	43	Capacity Discussion	
Growth Capacity	57		
New Work Capacity	100		
% Backlog of New Work	43	References	
% Growth of New Work	57		

Localities:

locality	percentage	comment
Heathcote Valley	100	

Operations and Maintenance

O&M Cost Share	\$0
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Renewal

Stand Alone Renewal Cost	\$108,098	Renewal Scope	Standard assumption for renewal component of Road Network Improvements
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New Works

Stand Alone New Works Cost	\$540,492	New Works Scope	Standard assumption for new work component of Road Network Improvement.
Renewal Cost Share	\$108,098		
New Work Cost Share	\$540,492		

Preliminary Cost Shares

Backlog Cost Share	\$185,929
Growth Cost Share	\$246,464

Growth project

Stand Alone Growth Cost	\$540,492	Growth Project Scope	Standard assumption for growth component of Road Network Improvements.
Growth Cap	\$540,492		

Unallocated costs

Unallocated Cost Share	\$0
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Project funding

External Funding	\$259,829
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Summary of Cost Allocation

	%	Total Cost	Net Cost
O&M		\$0	\$0
Renewal	20%	\$108,098	\$56,133
Backlog	34.4%	\$185,929	\$96,548
Growth	45.6%	\$246,464	\$127,982
Unallocated	0%	\$0	\$0
External Funding			\$259,829
Project Total	100%	\$540,492	\$280,663

CHRISTCHURCH CITY COUNCIL**SECTION 1****GENERAL CLAUSES****1. GENERAL DESCRIPTION**

This Contract is for the earthworks, construction of kerbs, channels, asphaltic concrete paths, grassed berms, drainage works, lighting, watermain, landscaping and carriageway construction in Jubilee Street with improvements to the Bamford Street/Barton Street intersection.

This Contract shall be carried out in two Separable Portions:

- Stage 1** – Jubilee Street Extension - Roding (kerbs, channels, paths, drainage, lighting, watermain, road pavement etc)
- Stage 2** – Bamford Street/Barton Street (kerbs, channels, paths, drainage, road pavement etc)
- Stage 3** – Landscape planting

All work shall be carried out as specified in the Christchurch City Council's Construction Standard Specification CSS: Parts 1-7: 2002.

2. QUALITY ASSURANCE SYSTEM

The Contractor shall for the duration of the Contract operate a Quality System and have a Contract Quality Plan which complies with TNZ TQS1/TNZ TQS2.

The Contract Quality Plan shall be submitted to the Engineer at least seven working days prior to work commencing. No work shall be commenced on site until the Contractor has received approval from the Engineer for their Quality Assurance System.

The Engineer will advise acceptance of the Contract Quality Plan or indicate amendments that are required within three (3) working days of receipt.

The Engineer will carry out audits and inspections during the Contract, which may include checks of the Contractor's Quality System and records.

Tenderers must provide evidence with their tender, in the form of a draft Contract Quality Plan or by having a third party audited system in place, that they are able to meet the above requirements.

3. CONTRACT DOCUMENTS

The Contract Documents will comprise:

- (a) The completed Tender Form, Health and Safety Management Plan Confirmation Form (Appendix 4) and Schedule of Prices, if any.
- (b) The Letter of Acceptance of Tender.

- (c) The General Conditions of Contract, being NZS 3910:1998, as modified and extended by the Special Conditions of Contract.
- (d) The Conditions of Tendering and Schedule to Conditions of Tendering.
- (e) The Specification.
- (f) The Christchurch City Council's Civil Engineering Construction Standard Specification (CSS):
 - Part 1: 2002 - General,
 - Part 2: 2002 - Earthworks,
 - Part 3: 2002 - Utility Drainage,
 - Part 4: 2002 - Water Supply,
 - Part 5: 2002 - Lights
 - Part 6: 2002 - Roads
 - Part 7: 2002 - Landscapes
- (g) The Drawings -
 - 25144/01 Sheets R01-R02 - Plan and Longitudinal Section (Jubilee Street)
 - 25144/01 Sheet R03 Plan and details (Jubilee Street)
 - 25144/01 Sheet R04 Cross-Sections (Jubilee Street)
 - 25144/01 Sheet R05 Landscape Planting Plan
 - 25144/01 Sheet R06 - Bamford Street/Barton Street - Plan and Cross-Sections
 - 25144/01 Sheets R07-R08 - Roadmarking
- (h) The Agreement (being the Christchurch City Council Agreement in substitution for the Second Schedule of NZS 3910:1998).
- (i) The Bond if any (being the Christchurch City Council Bond in substitution for the Third Schedule of NZS 3910:1998).
- (j) Any notice to tenderers, relevant correspondence, additional drawings, specifications, instructions and variations necessary for the proper completion of the works, which may be issued from time to time.

4. **EXTENT OF CONTRACT**

The Contract includes:

Jubilee Street Extension

- (a) Site clearing, earthworks, breaking out old kerbs, channels, sumps etc, excavation to sub-grade level and disposal of spoil as directed.

- (b) **Laying of: 225 mm diameter VCP or approved ceramic equivalent stormwater pipes; 300 mm diameter RCRR stormwater pipes. The piping shall be concrete surrounded/capped or metal bedded as directed.**

Breaking into manholes, laying out stormwater pipes, making good etc.

- (c) Construction of kerb and flat channel.
- (d) Construction of mountable median kerbs.
- (e) Construction of vehicle and pedestrian cutdowns through new kerbs. Construction of commercial crossing beam at 96 Bamford Street.
- (f) Construction of asphaltic concrete paths and the commercial vehicle crossing at 96 Bamford Street.
- (g) Treatment of topsoil in landscape planting areas and tree planting areas.
- (h) Reinstatement of grassed berms.
- (i) Landscape planting (plants, shrubs, trees supplied by CCC at Nursery).
- (j) Supply and laying of cobblestones.
- (k) Supply and laying of PVC ducting (some ducting supplied by Orion and Telecom).
- (l) **Relocation of one existing lighting standard, supply and installation of new lighting standards, fittings etc, and associated cabling/trenching.**
- (m) Installation of a 200 mm diameter watermain with associated fittings.
- (n) Supply and installation of new traffic signs and posts.
- (o) Application of road markings including reflective markers on kerbs and pavement including markings along Rutherford Street..
- (p) Road construction - Supply and construction of metalcourses, supply and construction of chipseal surfacing.
- (q) Construction of paling fences and post and cable fences.
- (r) Provision for temporary traffic control.
- (s) **All other work indicated, described or implied on the drawings or in this Specification, or in any other document so as to render the Contract complete.**

Bamford Street/Barton Street Intersection

- (t) Breaking out old kerb, channels, sumps etc, excavation to sub-grade level and disposal of spoil as directed.

- (u) Laying of: 225 mm diameter VCP or approved ceramic equivalent stormwater pipes; 300 mm diameter RCRR stormwater pipes. The piping shall be concrete surrounded/capped or metal bedded as directed.

Construction of single, double and corner sumps.

Modification of existing sumps.

Breaking into sumps/manholes, laying out stormwater pipes, making good etc.
- (v) Construction of kerb and flat channel.
- (w) Relaying and/or extending 100 mm diameter and 150 mm diameter property drains into new side channels or stormwater line where and if directed.
- (x) Construction of vehicle and pedestrian cutdowns through new kerbs.
- (y) Construction of asphaltic concrete paths and residential crossings as directed.
- (z) Supply and placement of 300 mm (nominal depth) topsoil in landscape planting areas and up to 1,000 mm topsoil in tree planting areas.
- (aa) Construction of grassed berms.
- (bb) Landscape planting (plants, shrubs, trees, supplied by CCC at Nursery).
- (cc) Supply and laying of interlocking concrete blocks at the existing threshold into Bamford Street.
- (dd) Supply and installation of new lighting fittings etc.
- (ee) Recovery of surplus traffic signs and posts.
- (ff) Supply and installation of new traffic signs and posts.
- (gg) Supply and installation of bollards.
- (hh) Application of road markings including reflective markers on kerbs and pavement.
- (ii) Road reconstruction – excavation and disposal of spoil, supply and construction of metalcourses, supply and construction of chipseal surfacing.
- (jj) Provision for temporary traffic control.
- (kk) All other work indicated, described or implied on the drawings or in this Specification, or in any other document so as to render the Contract complete.

JUBILEE STREET EXTENSION

Project Leader: Brian Neill

Project Aim:

- To advance the work involved in providing capital funding for the proposed Jubilee Street Extension that has a 10 year City Plan designation.
- To improve access to the landlocked B5 business zone bounded by the loop in the Heathcote River serviced from the ring road route minor arterial road (Rutherford Street).

Problem Definition:

- Businesses in the loop area have been lobbying the Council for some time on the need for this new road link. G L Bowron and Independent Fisheries in particular are most affected by the poor access. Independent Fisheries alone employs 975 people, and, like G L Bowron, are a 24 hour operation.
- Existing access is almost exclusively provided via a local residential street (Barton Street) which leads directly into the G L Bowron site.
- Traffic problems generated by the need to use Barton Street for trucking movements as well as employee travel overloads the local road network at shift change times. B-trains have difficulty in maneuvering into and out of Barton Street; the proposed Jubilee Street Extension (from Bamford Street to Rutherford Street) will alleviate these problems.
- Although Rutherford Street, Barton Street, Bamford Street and Jubilee Street have been upgraded within the last few years, along with other roads within the loop, access for HMV's is still not satisfactory. The Living 2 zone bordering the B4 and B5 zones needs more protection from HMV movements which need to use Barton Street as the way into, and out of, the area.

Consultation:

- Councillors, board members and staff met at the intersection of Barton Street and Rutherford Street on 13/03/01. Staff had previously met with the principals of G L Bowron and Independent Fisheries to discuss options/timeframes etc for progressing this project.
- The two companies have had a lot of feedback from residents about the effect of the HMV traffic that is generated in the area and the use of Barton Street to access the ring road route.
- The area has seen many changes and the community has had a lot of input into developments in the area. The Council, following the construction of the Woolston Cut, settled on strategies to deal with both local and through traffic. The existing roading patterns, intersection controls etc were set up in 1987; the reconstruction of roads in the area followed over the next 5 or 6 years.

Objectives:

- To construct the Jubilee Street extension.
- To make appropriate changes to the local road network to ensure that HMV intrusion into the L2 zone is kept to a minimum.
- To provide a high standard of access to the Jubilee Street extension with provision for B-train turning at the junctions of Rutherford Street and Bamford Street. Traffic signals may need to be installed at the new Jubilee Street/Rutherford Street Junction and new intersection controls at the Bamford Street/Jubilee Street intersection.
- King Edward Terrace is an important link for a number of businesses in the area. The existing Rutherford Street junction will most likely need remodelling.

- Short term solutions to assist in the management of traffic (especially HMV's) need to be found and acted upon.

Options:

- Options for the form, cross section, alignment (within the existing road designation) are to be developed. Intersection controls and the possibility of installing traffic signals at the new junction will need to be considered.
- Short term options for improvements to the Barton Street/Rutherford Street intersection are to be developed.

Technical Assessment:

- To be carried out once the options have been examined.
- Crash rate data has been examined and traffic counts at the Barton St/Rutherford St junction partially completed. Although delays are experienced at peak times (especially during shift changes at 3:30 pm) and apart from the difficulty HMV drivers have in negotiating turns, the intersection performs up to expectations and will be more than adequate to handle 'local' residential traffic once the Jubilee St extension has been completed.

Audit:

- Scheme plan audits will be required for the Jubilee Street extension.
- An existing road audit is required for the Barton St/Rutherford St intersection.

Scheme Plan:

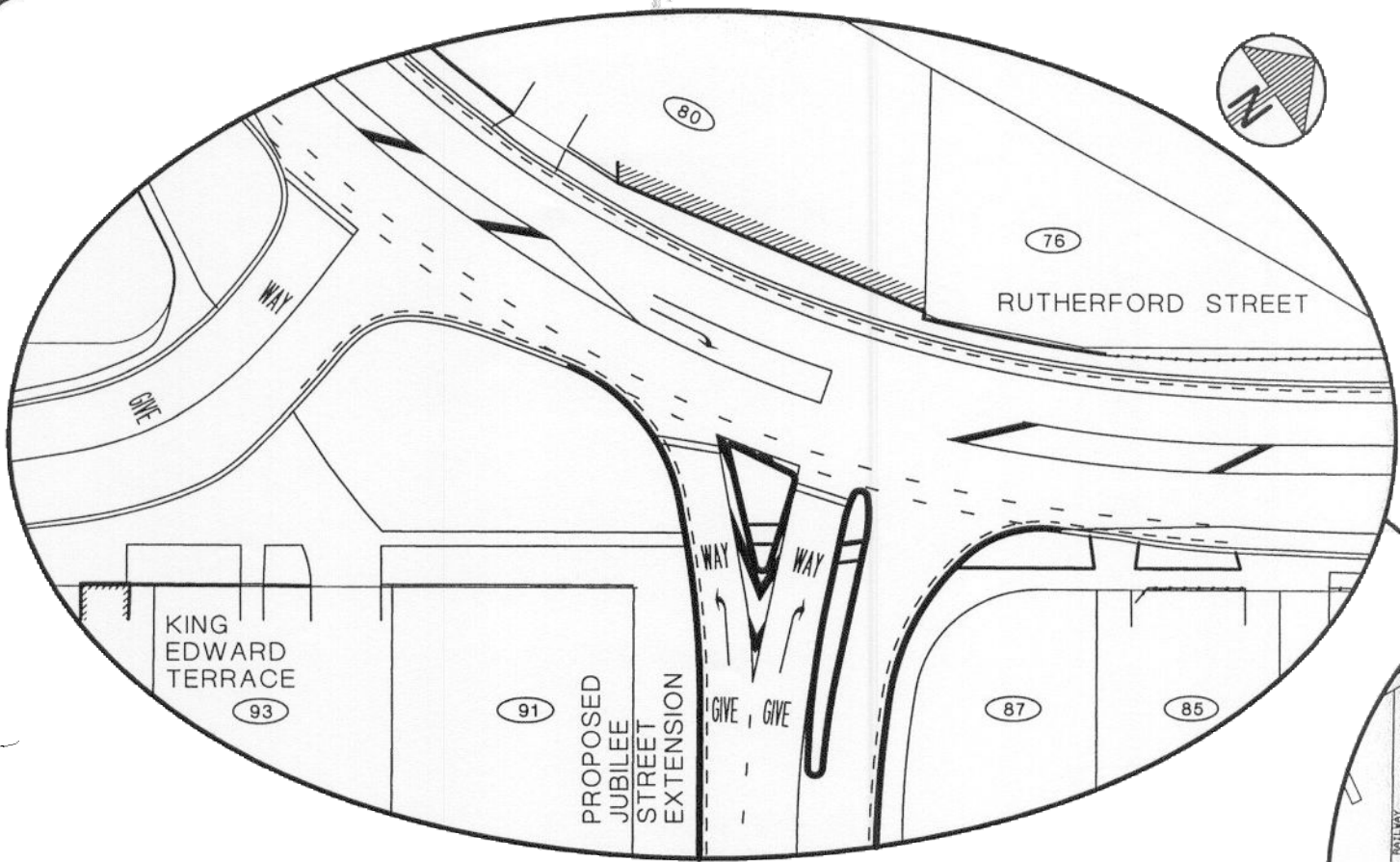
- To be developed.

Timeframe:

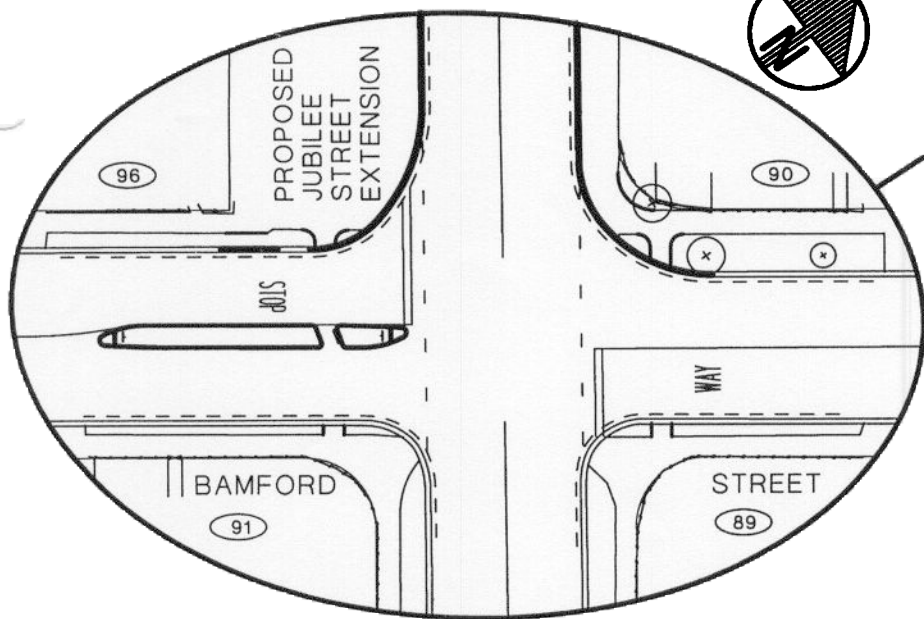
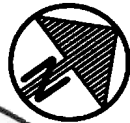
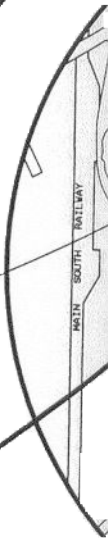
- March 2001 – prepare project brief and commence studies.
- May/June 2001 – carry out an existing road audit of the Barton St/Rutherford St intersection and develop appropriate plans for improved turning facilities for HMV's.
- June/July 2001 – commission City Solutions to prepare scheme plan options for the Jubilee Street extension.
- July/August 2001 – take appropriate action to improve turning facilities at the Barton St/Rutherford St intersection. Report progress to the Hagley/Ferrymead Community Board and City Services Committee.
- July - September 2001 – complete work on developing options for the Jubilee Street extension and provide guidance as to the likely funding source/timing for this project. Report to the Hagley/Ferrymead Community Board and City Services Committee.

BN 24/03/01

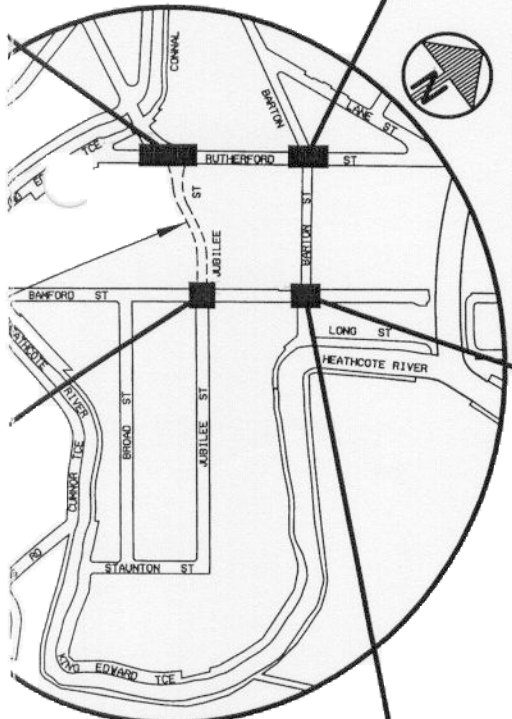
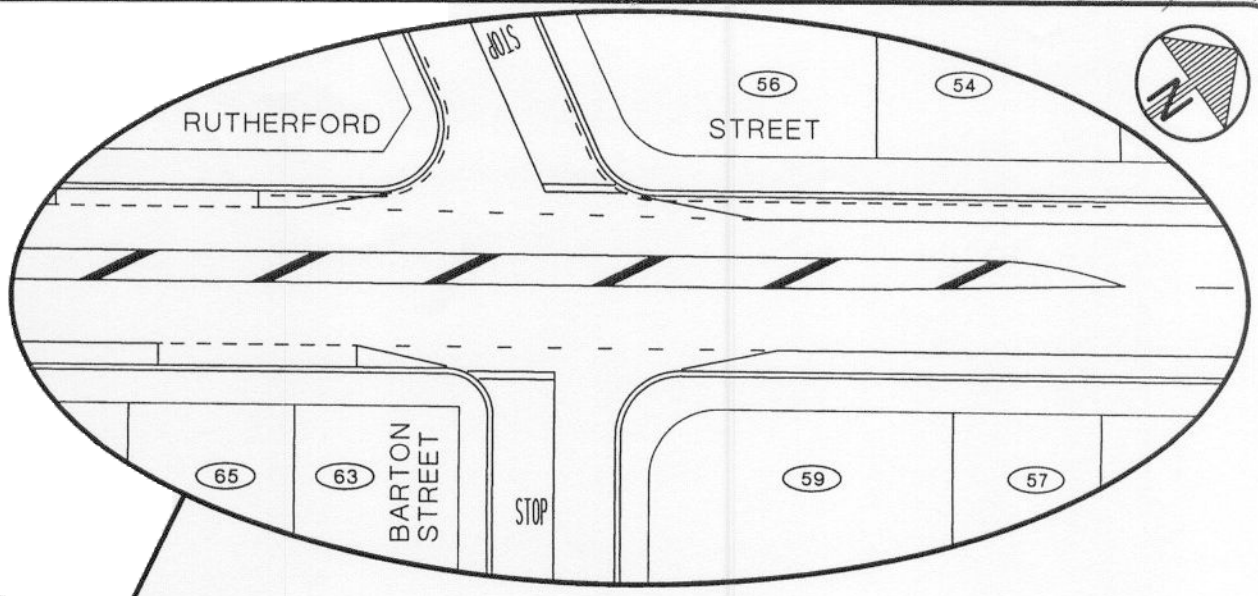
(Timeframe updated 25/06/01)



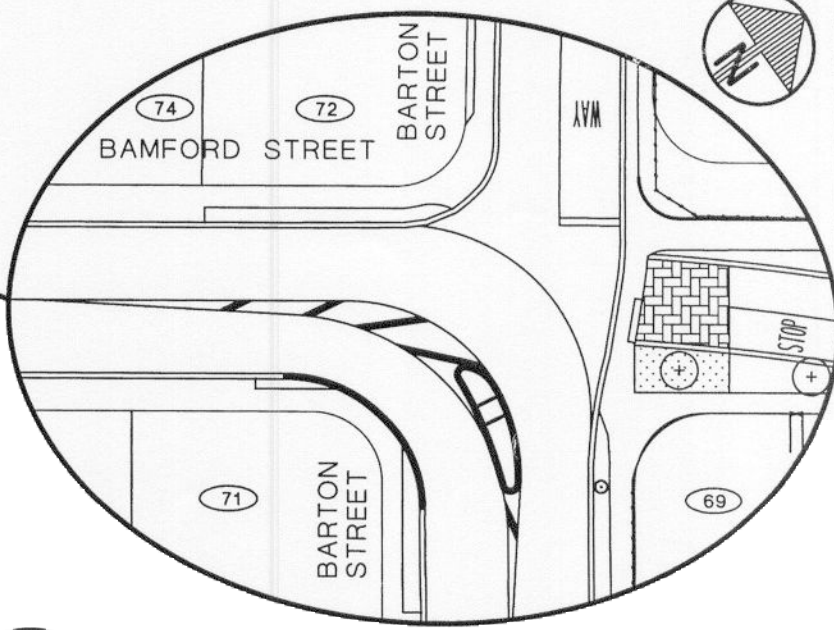
PROPOSED NEW ROAD



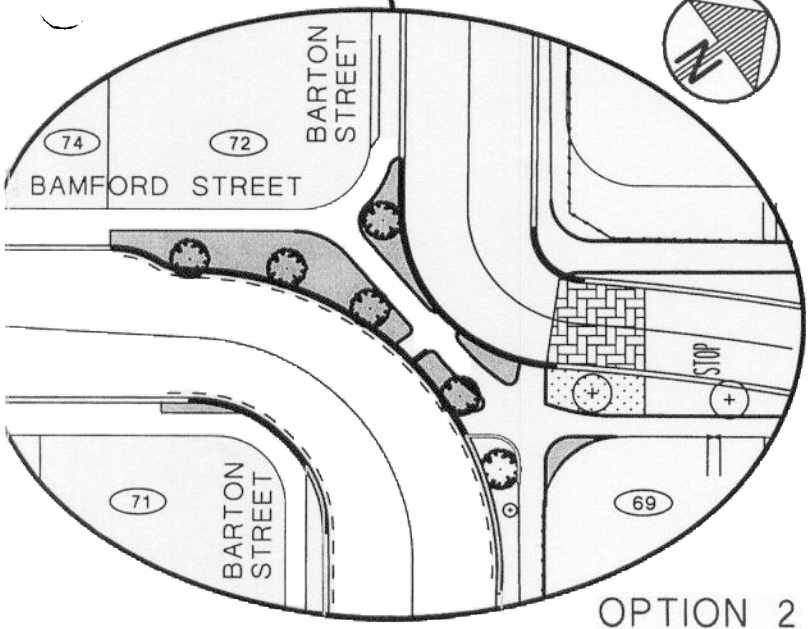
JUBILEE STREET



LOCALITY



OPTION 1



OPTION 2

KEY	
EXISTING KERB	
PROPOSED KERB	
NO STOPPING	
GRASS	
HOLLAND PAVERS	
LANDSCAPE PLANTING	
EXISTING TREE	
PROPOSED TREE	

BCB 02/10/01
TP134902

ST EXTENSION