

Flinders Street Streetscape Improvements

JUNE 2023



Flinders Street

Project Drivers

In order to meet relevant standards and a level of compliance, renewal of Flinders Street requires more than just replacement 'like for like'. Impacts to parking, adjustments of service pits, changes to bus stops and reconfiguration of kerb ramps would be required as a minimum to enhance the street to meet minimum standard and compliance.

Both design options presented in this report offer:

- Alignment with our strategic planning goals to increase city greening and tree canopy cover to assist with climate resilience.
- Greatly increased safety for all road users by reducing conflicts and improving pedestrian facilities
- Renewal of aged assets such as road pavement, kerbs, tree surrounds and irrigation
- Ensure compliance with minimum standards
- The opportunities within the option to upgrade enables us to design-out conflicts make the street safer for all users
- Final design option to be considered in relation to Wakefield Street and Hutt Street projects.

Strategic Context

ADELAIDE DESIGN MANUAL Local City Street

Objectives should focus on:

- Ensure a balance between parking and pedestrian amenity to service the needs of the local area for activities such as waste collection
- Provide comfort, frame vistas and assist with wayfinding through continuous green canopy covers that provide shade
- Provide opportunities for community participation in greening aspects of the streets such as verge and communal gardens

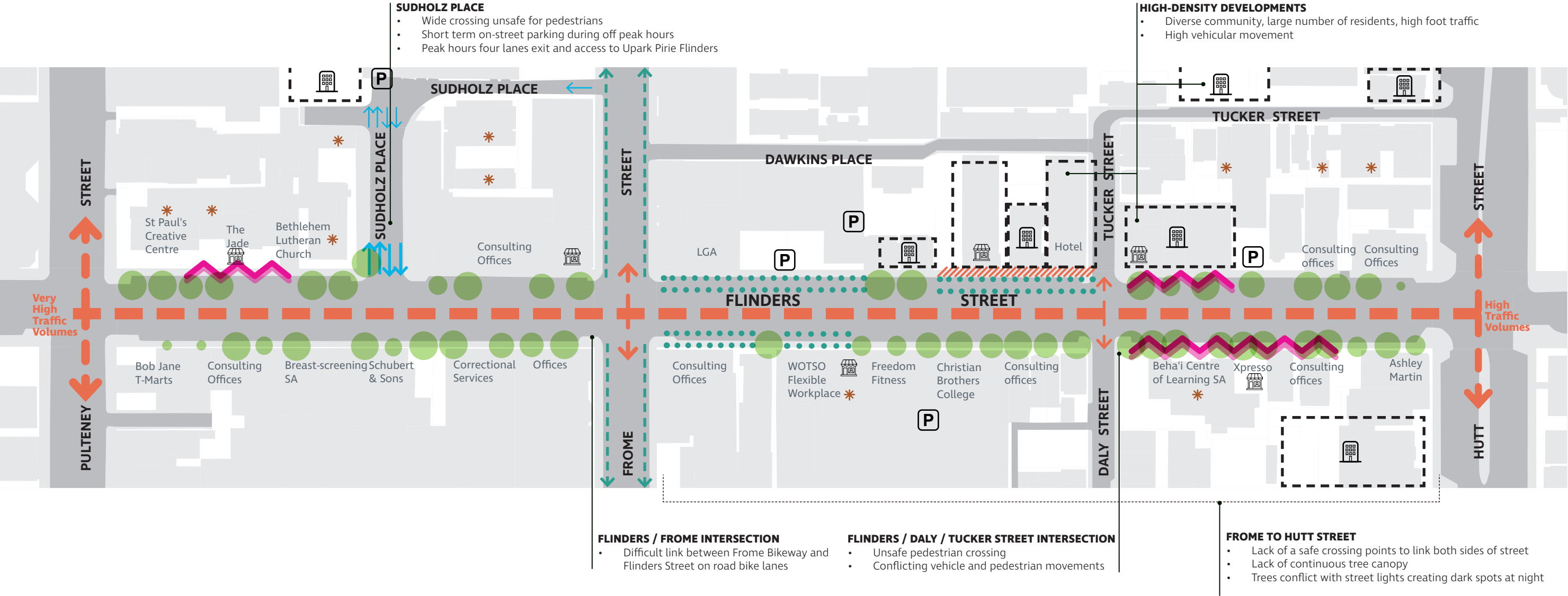
Council Decision Details - Item 19.10 - Councillor Hyde - MoN - Public Realm on Flinders Street (12/07/2022)

Noting the substantial and ongoing private investment at the eastern end of Flinders Streets, requests the Administration engage with key stakeholders regarding the potential for public realm upgrades, with a view to collaborating to deliver enhanced public realm outcomes taking into consideration asset renewal timelines.

Flinders Street

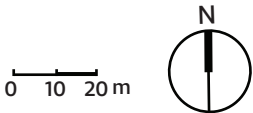
Site Analysis

- STREET SCALE**
 - Wide roadway dominated by vehicles
 - No medians no refuge islands
 - Lack of safe pedestrian crossing points between intersections
 - No public transport services
 - Inconsistent on-street bike lane offers cyclists limited protection
- STREET CHARACTER**
 - Lack of street furniture and amenity (greening and public art)
 - Heritage buildings façades are ignored
 - Visual clutter due to stobie poles, overhead powerlines and fire hydrants
- ON-STREET PARKING**
 - Inconsistency of parking (angled and parallel) along length of street
 - Stobie poles and street trees clash with car parks
 - Car park sizes are not compliant with Australian Standards
 - Unused driveway
- FOOTPATH**
 - Kerbs and kerb ramps in poor condition
 - Asphalt footpath along length of street - lack of character
 - Width does not easily accommodate outdoor dining areas Lack of weather protection for pedestrians
- GREENING**
 - Health and condition of existing trees is varied, with some requiring removal due to poor health
 - Tree surrounds in poor condition and constraint potential growth of trees
 - Gaps in existing tree canopy and avenue and missing trees to be reinstated from development.



- LEGEND**
- HIGH DENSITY DEVELOPMENTS
 - EXISTING TREES
 - PUBLIC CAR PARKS
 - CONSTRUCTION SITE (AS OF DEC 2022)
 - HERITAGE BUILDING
 - ACTIVE STREET INTERFACE
 - RETAIL/ CAFE / RESTAURANT

- EXISTING FROME BIKEWAY
- LACK OF GREENING



Flinders Street

Existing Conditions



Tree pit small for tree growth in poor condition



Unsafe crossing across four lane vehicular traffic



Car parking linemarking unclear Asphalt surface in poor condition



Abandoned driveway



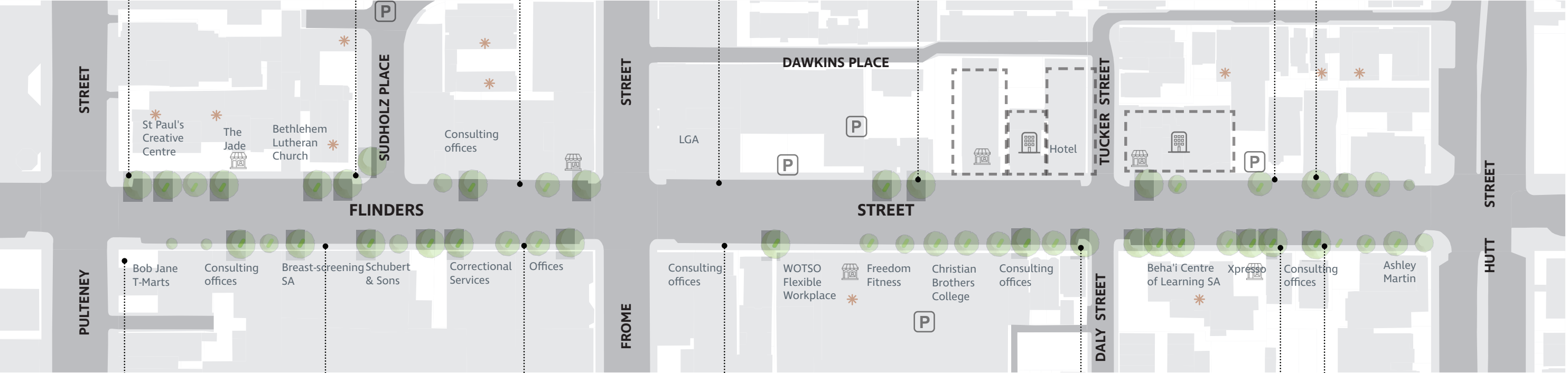
Construction site removed trees to be reinstated by agreement



Littering and untidiness against tree pit



Tree pit too small stobie pole in middle of car parks



Car Service Business - car park on the footpath during weekdays



Wide road, hard for wheelchair across it safely



Confusing accessible car park line marking and tree pit



Integrate stobie pole and tree into one garden bed



Tree protuberance and kerb to be improved



Stobie pole in the middle of road causes driveway hazards

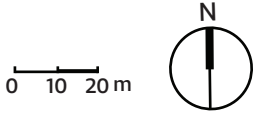


Small scale outdoor dining area footpath and tree surrounds to improve



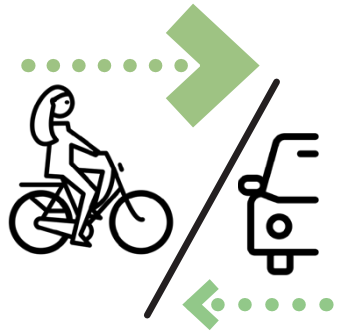
LEGEND

- HIGH DENSITY DEVELOPMENTS
- EXISTING PUBLIC CAR PARKS
- HERITAGE BUILDING
- RETAIL / CAFE / RESTAURANT
- EXISTING TREES



Flinders Street

Design Principles



01

Reconfigure & Renew

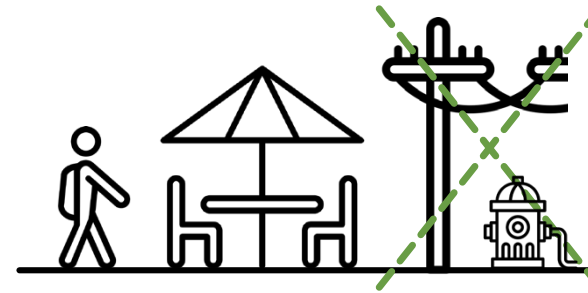
Reconfigure the road corridor to create narrowed vehicle lanes, wider bike lanes and compliant parking spaces to complement planned asset renewals.



02

Prioritise Safety

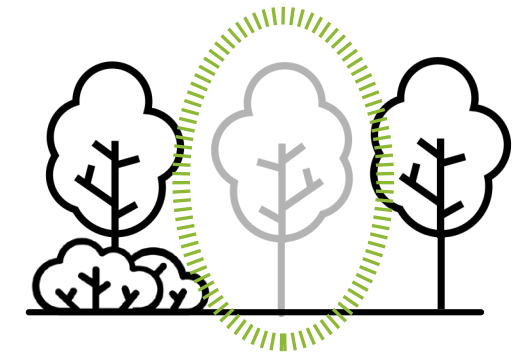
- Minimise pedestrian crossing distances by introducing continuous footpaths and protuberances
- Introduce new mid-block pedestrian crossing points by adding median or refuge islands
- Provide more space for safer cycling
- Rationalise traffic movements to reduce conflicts between vehicles, pedestrians and cyclists.



03

Maximise Space for People & Activation

Reduce large expanses of bitumen and de-clutter footpath areas to free up space for on-street activation including outdoor dining.



04

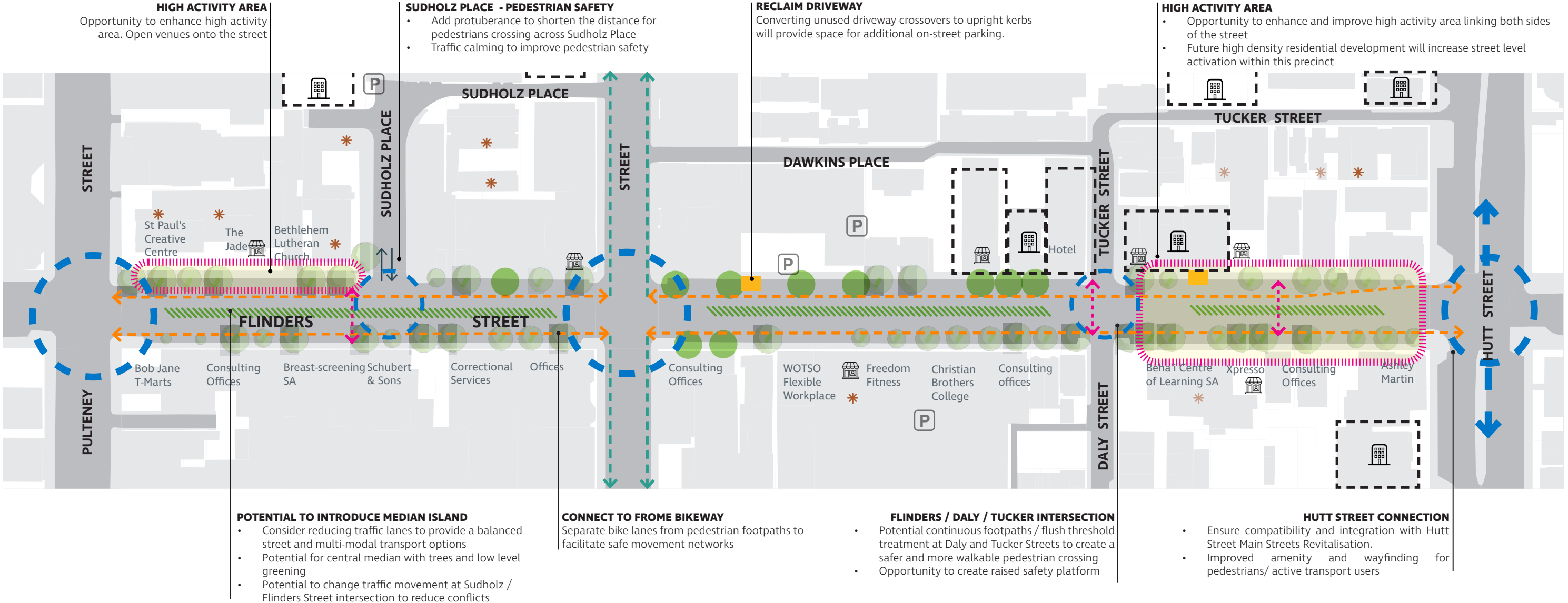
Improve Greening

- Infill gaps in street tree avenue to establish a continuous tree canopy
- Improve existing tree surrounds to enhance existing street trees
- Introduce low level planting for amenity and to buffer traffic
- Potential to introduce a median with robust greening.

Flinders Street

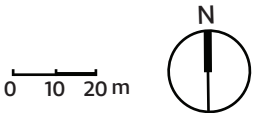
Opportunities

- HERITAGE BUILDINGS AND SURROUNDINGS**
 - Highlight cultural heritage buildings through design considerations
 - Opportunity to create street identity and branding and highlight significant historic building façades
- ON-STREET PARKING**
 - Improve tree surrounds and protect trees
 - New line marking compliant with AS2890
 - Use leftover spaces for motorbike parking and optimal spaces for accessible park and loading zones
- GREENING**
 - New tree planting for continuous tree canopy and avenue
 - Incorporate water sensitive urban design (WSUD) for new garden bed tree pits
 - Create buffer zones for traffic through low level planting
- LIGHTING**
 - Provide comfortable and compliant public lighting for high pedestrian activity
 - Potential undergrounding of powerlines to reduce visual clutter
 - Convert pillar fire hydrants to in-ground plugs to reduce visual clutter



- LEGEND**
- HIGH DENSITY DEVELOPMENTS
 - EXISTING TREES
 - EXISTING PUBLIC CAR PARKS
 - HERITAGE BUILDING
 - RETAIL / CAFE / RESTAURANT

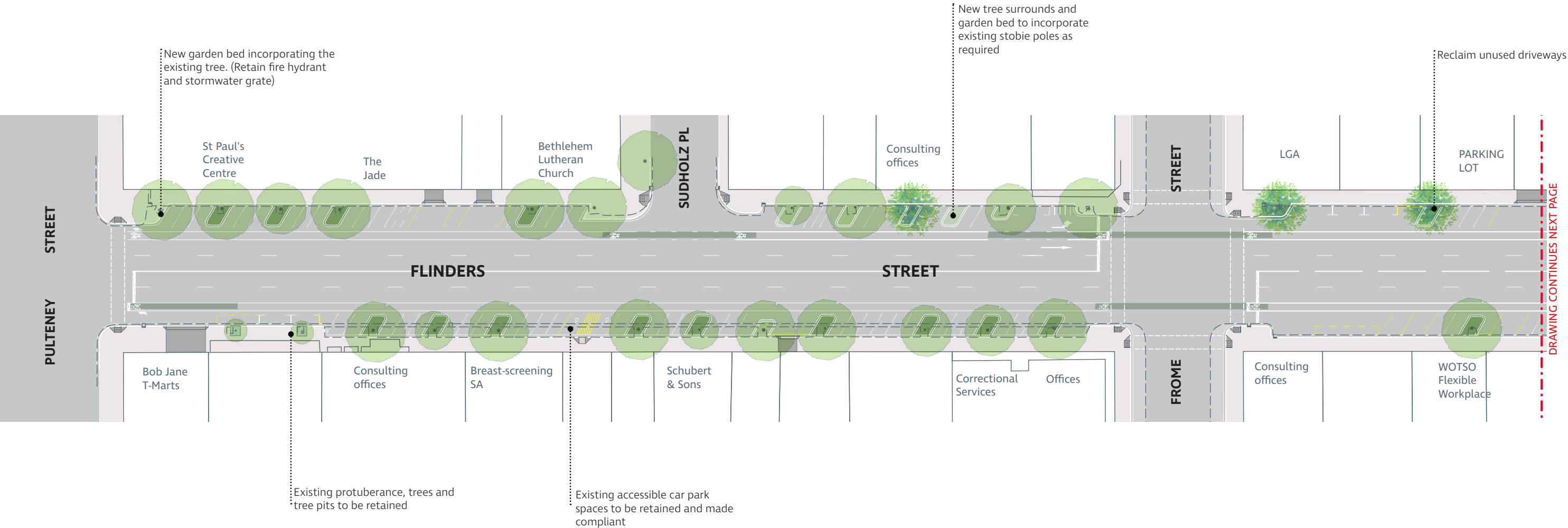
- IMPROVED CROSSING POINTS
- INTERSECTION IMPROVEMENTS
- POTENTIAL GREENING IN MEDIAN
- POTENTIAL NEW TREES
- SAFE BIKE CONNECTIONS



Flinders Street

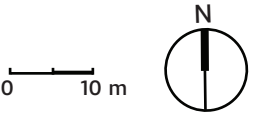
Concept Option 1 - Pulteney to Frome Street

- Key moves:**
- Renewal of road surface, kerbs and footpaths
 - Retain existing angled car parks with linemarking to ensure compliant with AS2890
 - New trees to infill gaps in tree canopy / avenue
 - New tree surrounds with garden bed to protect existing trees
 - New compliant linemarking to on road bike lane
 - New compliant kerb ramps



- LEGEND**
- NEW TREES
 - EXISTING TREES
 - NEW GARDEN BED
 - EXISTING KERB / WT
 - PROPERTY BOUNDARY

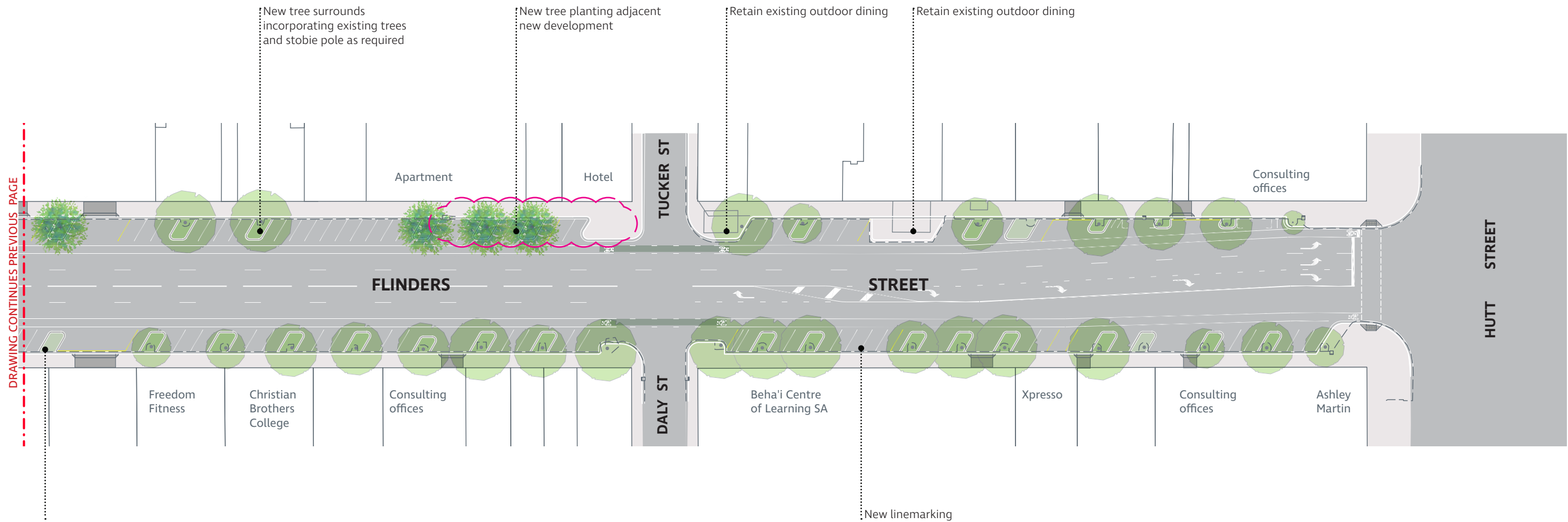
- DRIVEWAY AND CROSSOVER
- KERB RAMPS AND TACTILE PAVERS



Flinders Street

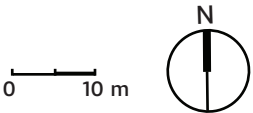
Concept Option 1 - Frome Street to Hutt Street

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LEGEND

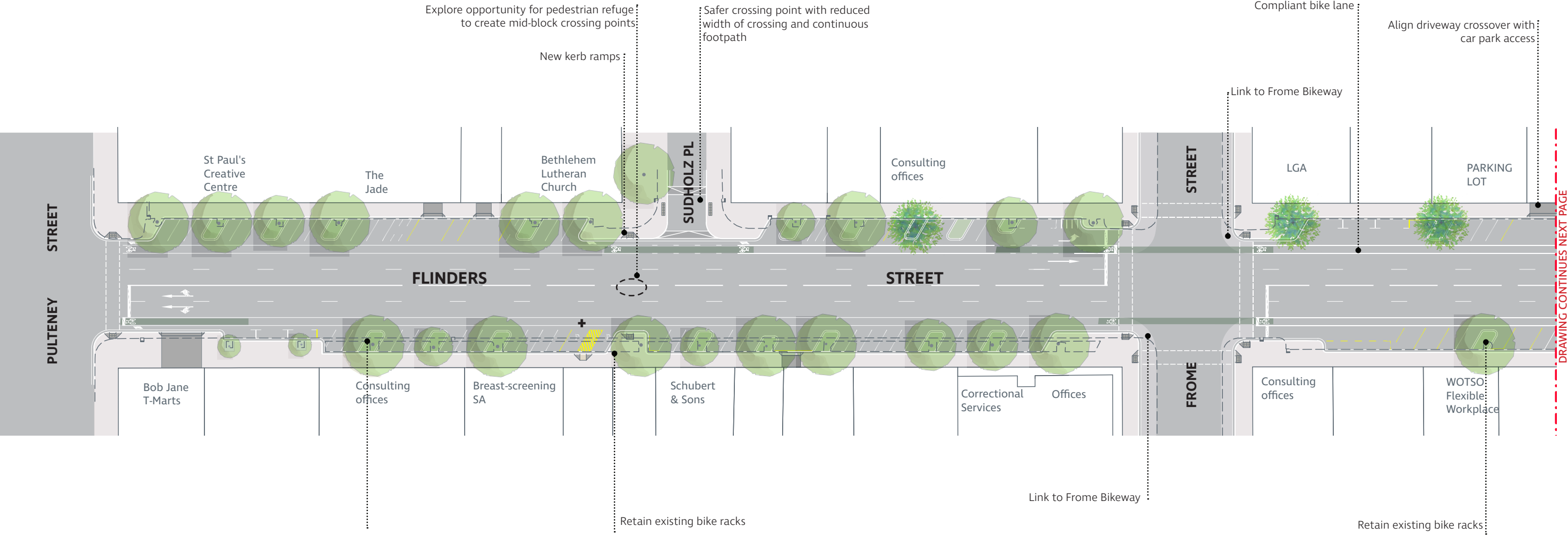
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|--|--------------------------|--|------------------------------------|
| | NEW TREES | | DRIVEWAY AND CROSSOVER |
| | EXISTING TREES | | KERB RAMPS AND TACTILE PAVERS |
| | NEW GARDEN BED | | CONSTRUCTION SITE (AS OF DEC 2022) |
| | EXISTING KERB/WATERTABLE | | |
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Flinders Street

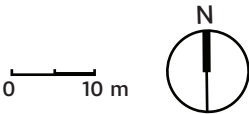
Concept Option 2 - Pulteney to Frome Street

- Key moves**
- Renewal of road surface, kerbs and footpaths
 - Retain existing angled car parks with linemarking to ensure compliant with AS2890
 - New trees to infill gaps in tree canopy / avenue
 - New tree surrounds with garden bed to protect existing trees
 - New compliant linemarking to on road bike lane
 - New compliant kerb ramps
 - + Continuous footpaths across Sudholz Place, Daly Street and Tucker Street
 - + New protuberances and rationalise street furniture
 - + Potential midblock crossing points
 - + Potential for Permeable pavement to back of tree surrounds



LEGEND

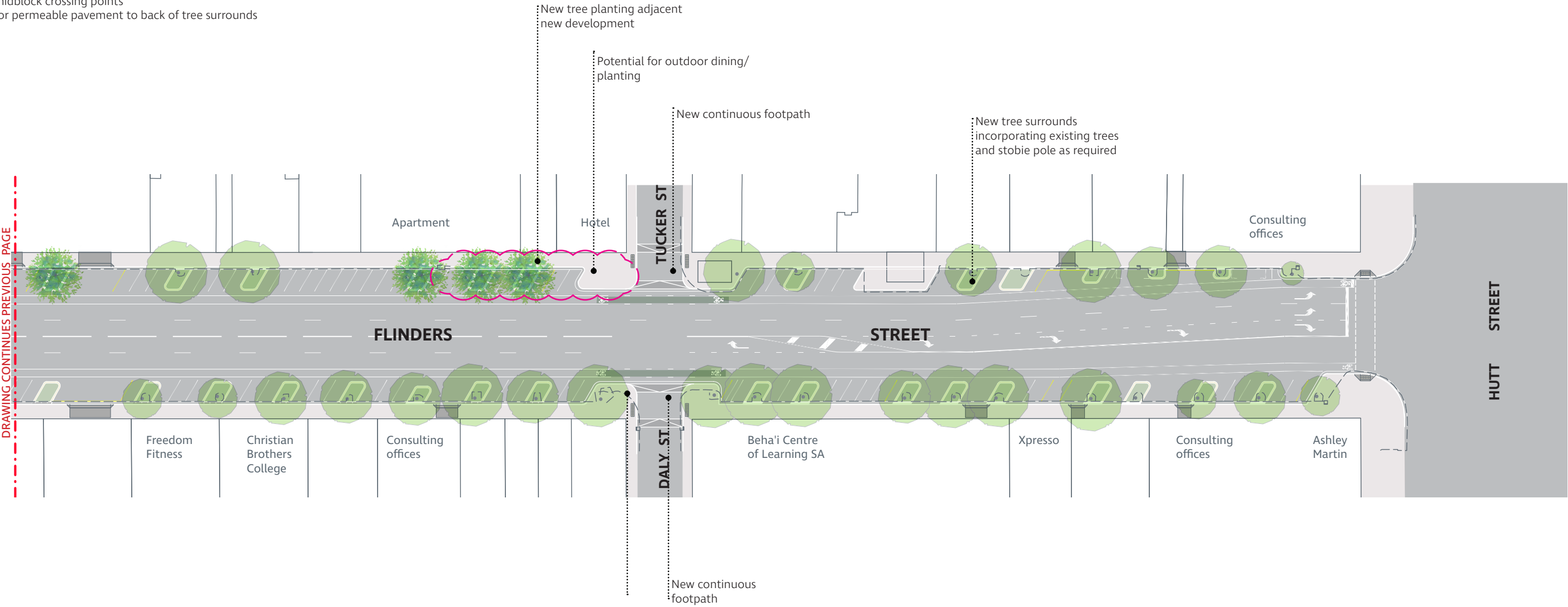
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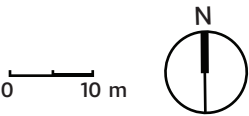
Flinders Street

Concept Option 2 - Frome Street to Hutt Street

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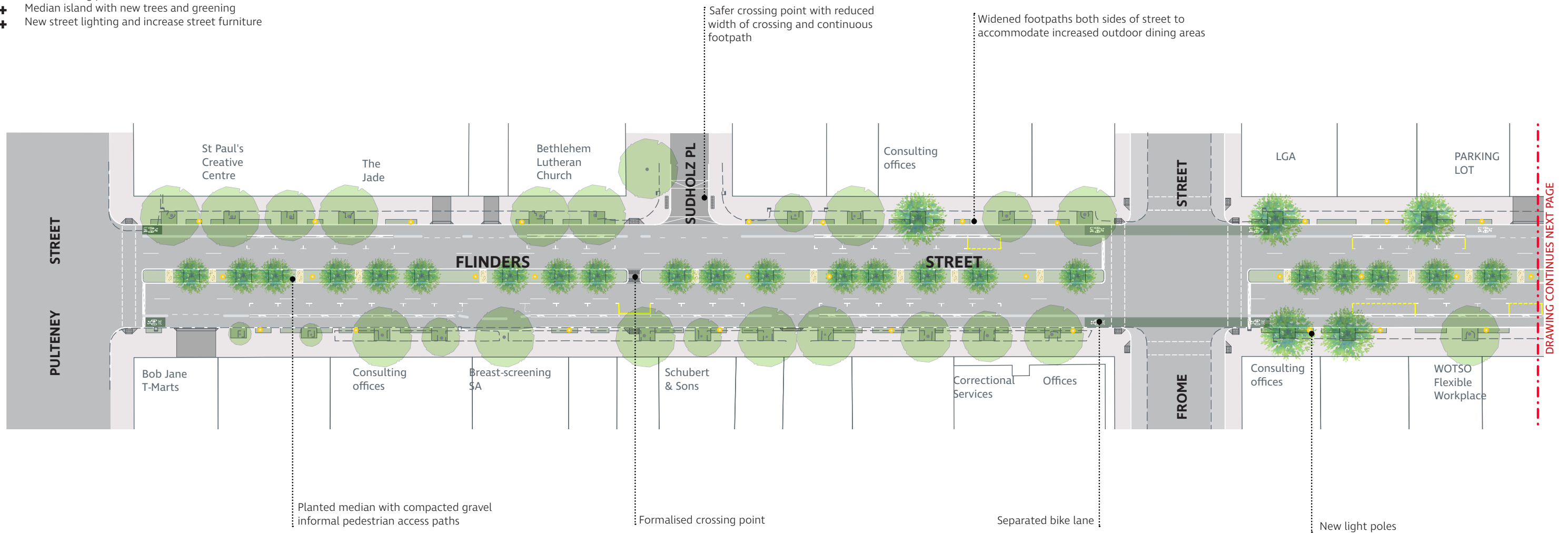
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Flinders Street

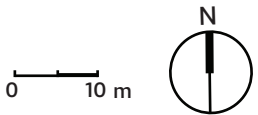
Concept Option 3 - Pulteney to Frome Street

- Key moves:**
- Renewal of road surface, kerbs and footpaths
 - New trees to infill gaps in tree canopy / avenue
 - New tree surrounds with garden bed to protect existing trees
 - New compliant linemarking to on road bike lane
 - New compliant kerb ramps
 - + Widened footpaths and new protuberances
 - + Separated bike lane
 - + Better connections to Frome Bikeway
 - + In-ground plugs for all fire hydrants
 - + Potential to underground powerlines and remove stobie poles
 - + Parallel parking during off peak hours
 - + Safer crossing points
 - + Median island with new trees and greening
 - + New street lighting and increase street furniture



LEGEND

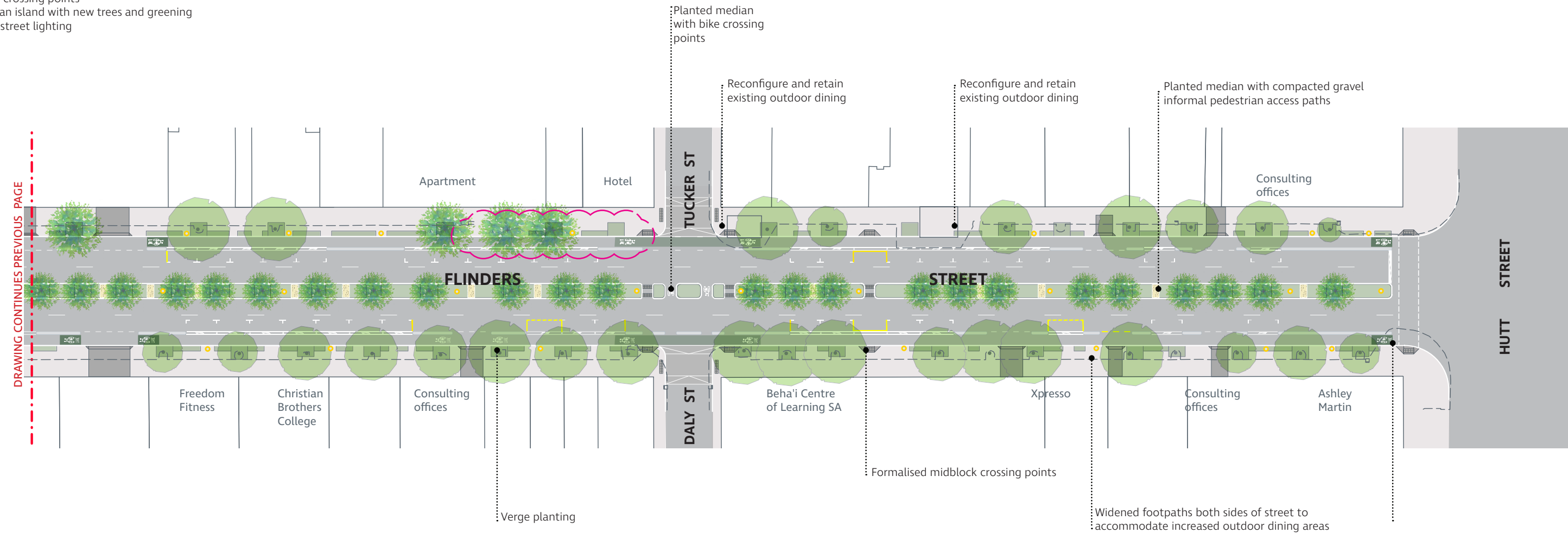
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| | NEW TREES | | DRIVEWAY AND CROSSOVER | | COMPACTED GRAVEL PEDESTRIAN REFUGE |
| | EXISTING TREES | | KERB RAMPS AND TACTILE PAVERS | | PEDESTRIAN CROSSING |
| | NEW GARDEN BED | | CONTINUOUS FOOTPATH | | LIGHT POLES |
| | EXISTING KERB/WATERTABLE | | | | |
| | PROPERTY BOUNDARY | | | | |



Flinders Street

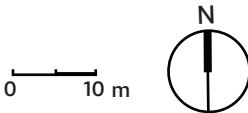
Concept Option 3 - Frome Street to Hutt Street

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 - + New street lighting



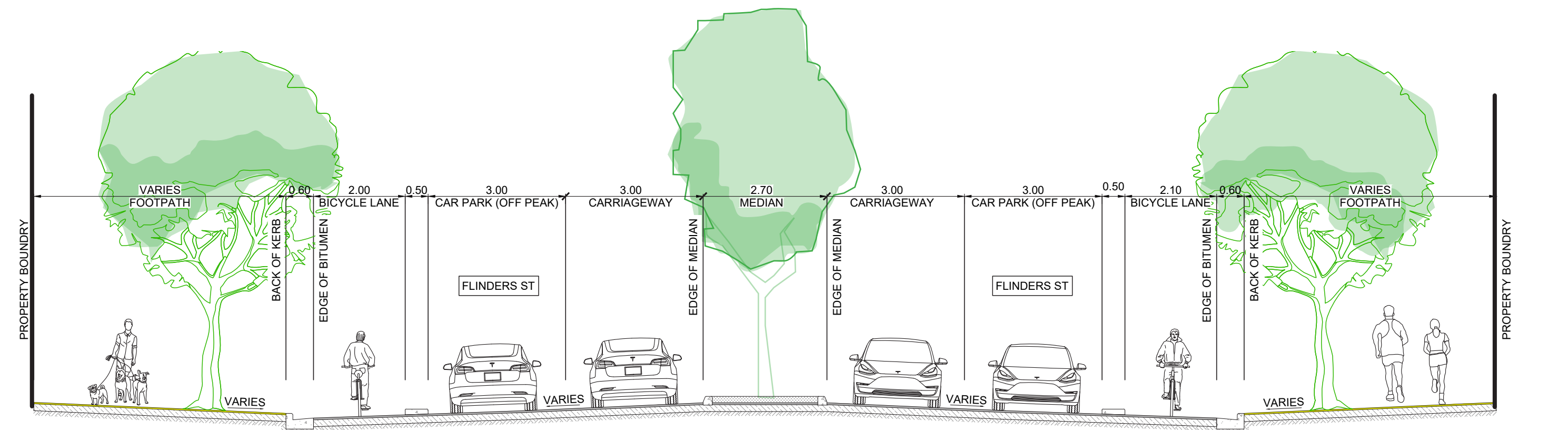
LEGEND

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| | NEW GARDEN BED | | CONSTRUCTION SITE (AS OF DEC 2022) | | LIGHT POLES |
| | EXISTING KERB/WATERTABLE | | CONTINUOUS FOOTPATH | | |
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Flinders Street

Concept Option 3 - Typical Section



Flinders Street

Precedent Images



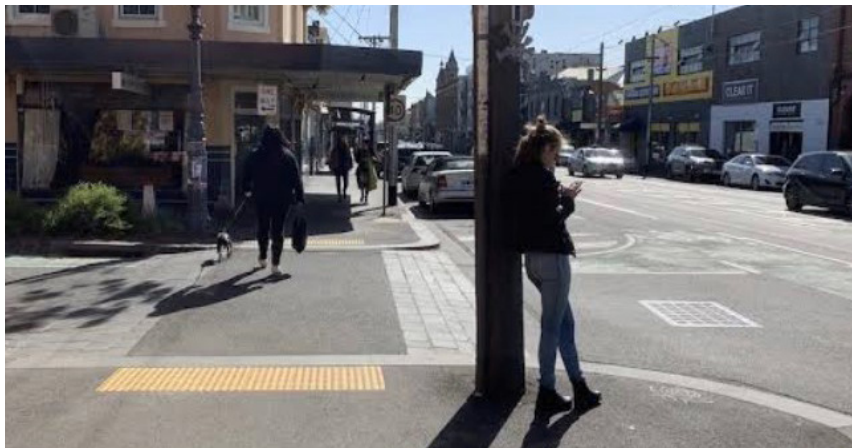
Active street corner and pedestrian crossing



Outdoor dining area



Verge planting



Continuous footpath crossings



Formalise crossing points



Generous footpaths to accommodate on-street activation



Median with trees planting, shrubs and informal crossing points



Separated / protected bike lanes

Flinders Street

Concept Option 1 & 2 - Artist's Impression

Proposed view looking west along Flinders Street at Frome Street intersection



Flinders Street

Concept Option 3 - Artist's Impression

Proposed view looking west along Flinders Street at Frome Street intersection

