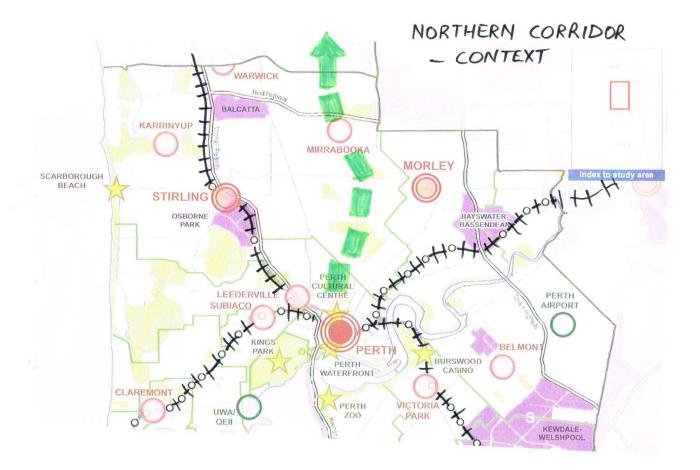
northern light rail

North Corridor Context



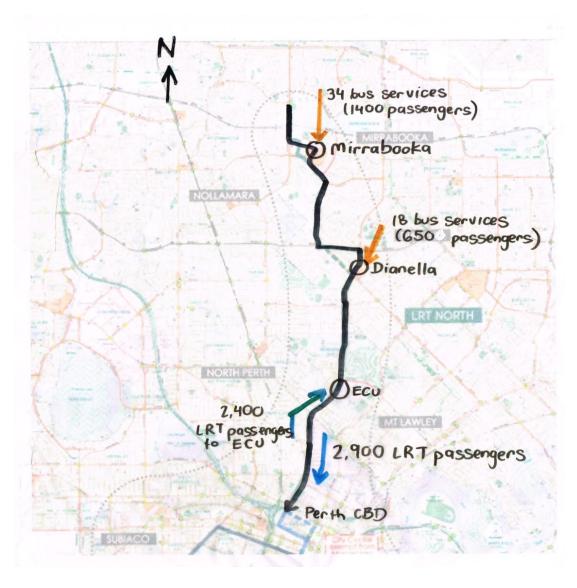
Why Light Rail?

- Projected patronage = Freo, Midland or Armadale
- × Need to move large volumes efficiently
- Heavy rail too expensive and too disruptive to urban fabric to create reserve
- **×** Buses overloading Perth City
- x Busway with separation/passing = +25m res
- Current passenger No = 1,500-2,000 (in peak)



TRAVEL TIME – Mirrabooka -Perth

- Current
 26 (30) min av /(peak)
- PTA Proposed LRT23 (26) min
- Team Proposed LRT 23+1+2=
 26 (29) min



Route Options – Catchment Densities



Option A (DoT)

Option B & C (Wanneroo alternatives)

Alternative Routes

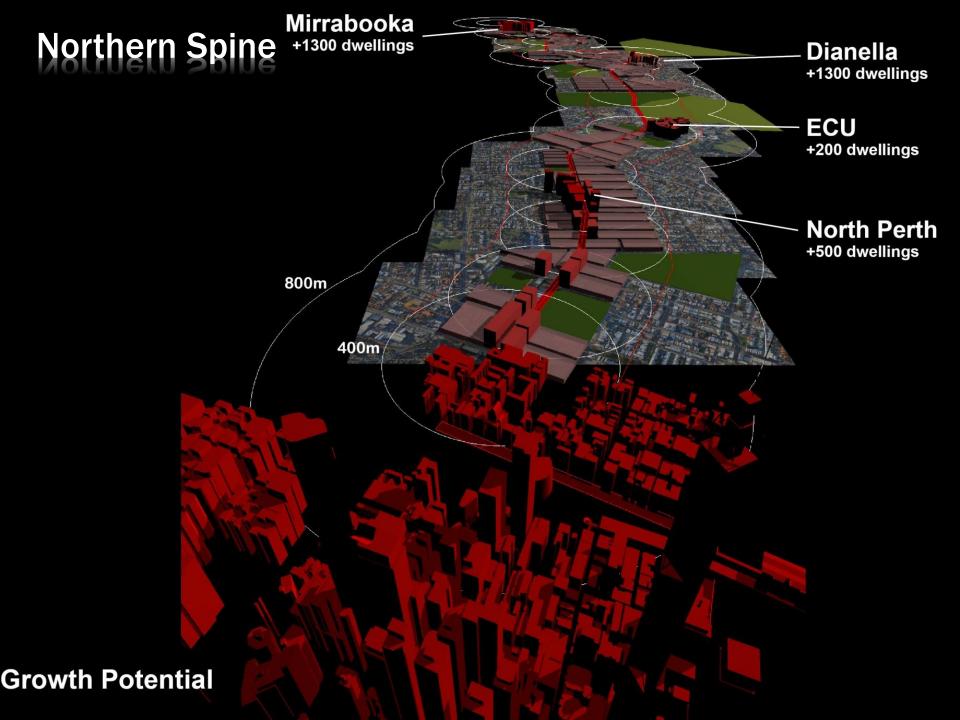
| Route | Length | No. of Stops | Time (in comparison with Route A) | Catchment Area (in comparison with Route A |
|-------|--------|--------------|---|--|
| А | 7.4 km | 10 | - | - |
| В | 7.6 km | 11 | + 1 min | + 20 ha |
| С | 6.7 km | 10 | + 2 min | + 16ha |

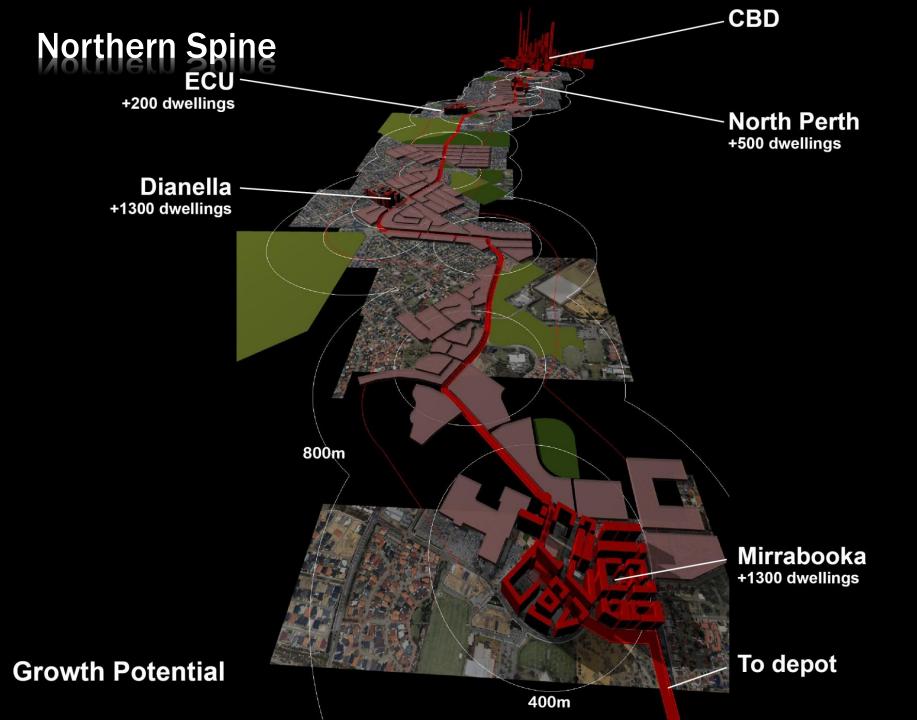
Analysis

- × Destinations City, ECU, Mirrabooka.
- × Northern walkable catchments limited
- (POS, lack of interconnected road network, low density)
- Three distinct characters- North Perth & ECU, Dianella, Mirrabooka
- Development opportunity North Perth,
 Dianella Plaza & Mirrabooka.

Analysis

| | Existing Density | Worker Population | Additional Dwellings | Destination |
|--|---------------------|----------------------|-------------------------|-------------|
| Perth/ Northbridge | High | | 1600 | D / D.O |
| North Perth | Medium | | 500 | D/D.O |
| ECU | | 10,000 | 200 | D |
| Dianella Plaza | Low | | 100 | D.O |
| Mirrabooka | Low | | 1300 | D / D.O |
| Additional Incremental Dwellings | | | 500 | |
| Total | | | 4,200 | |





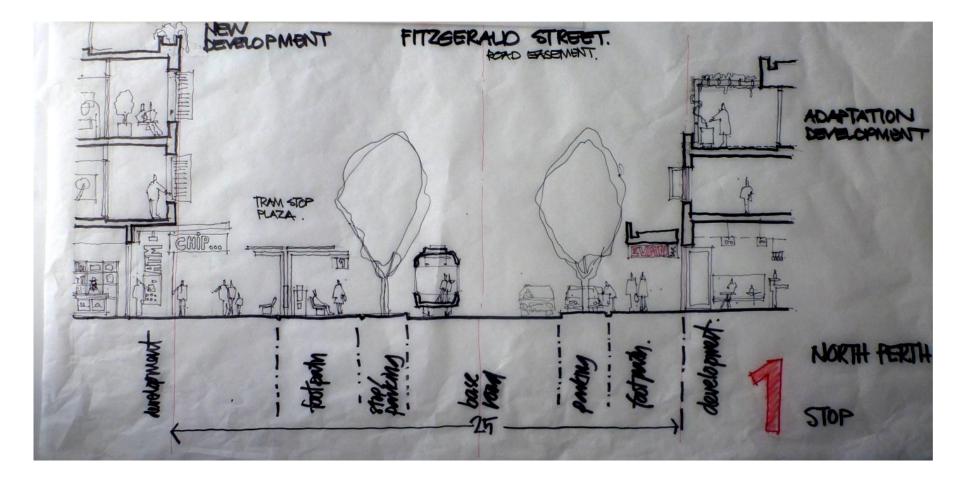
- Development Opps (Low, Med, High)
- × 2 Portal Sites
- × 2 Anchoring Stations (bar-bell)
- × Unifying landscape
- North Perth Plaza as the heart



Tram Stop One

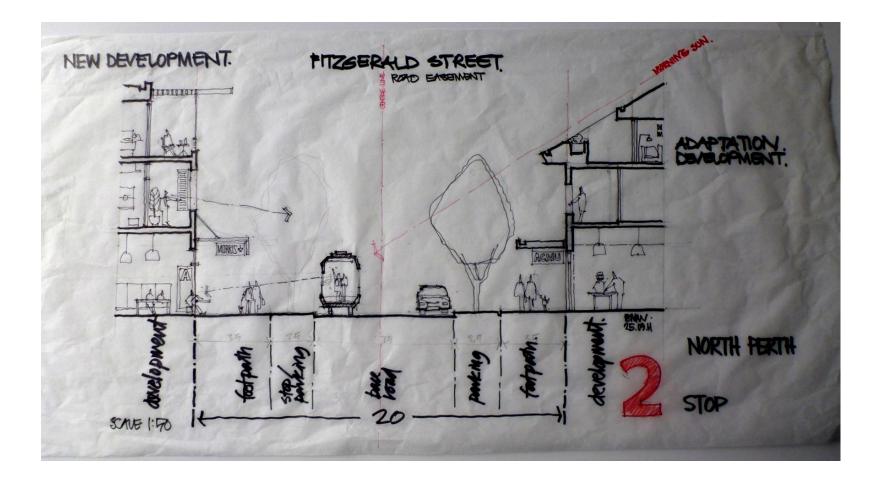




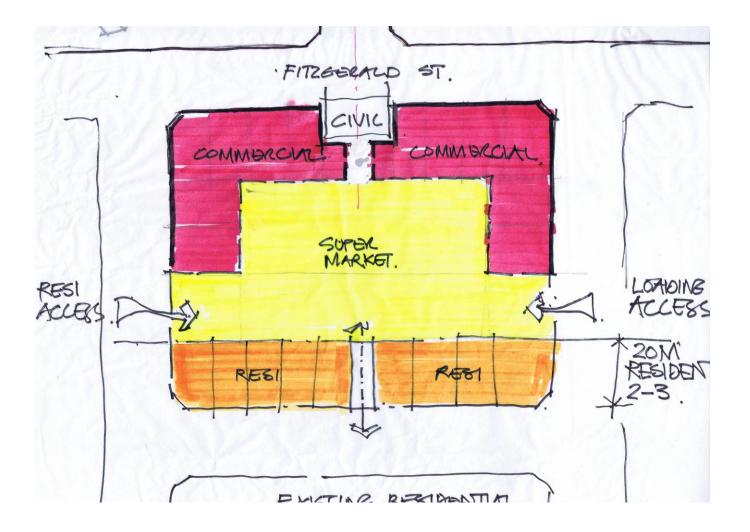




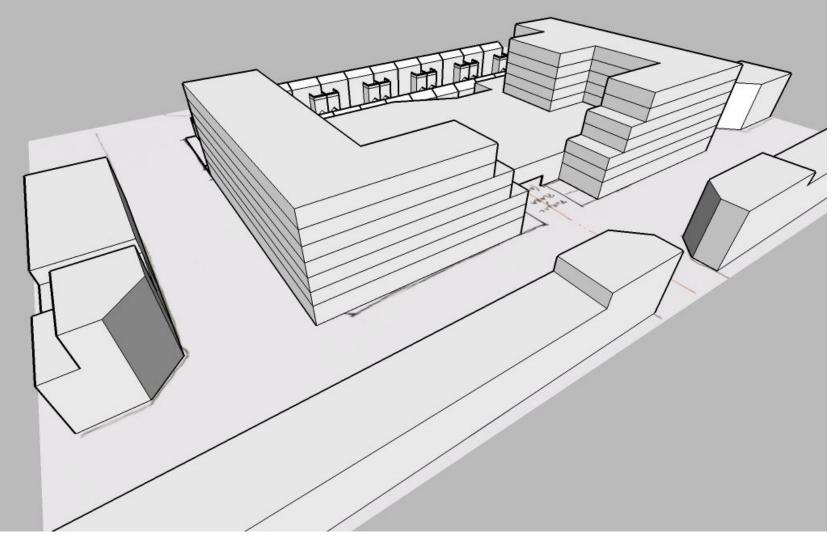
Tram Stop Two



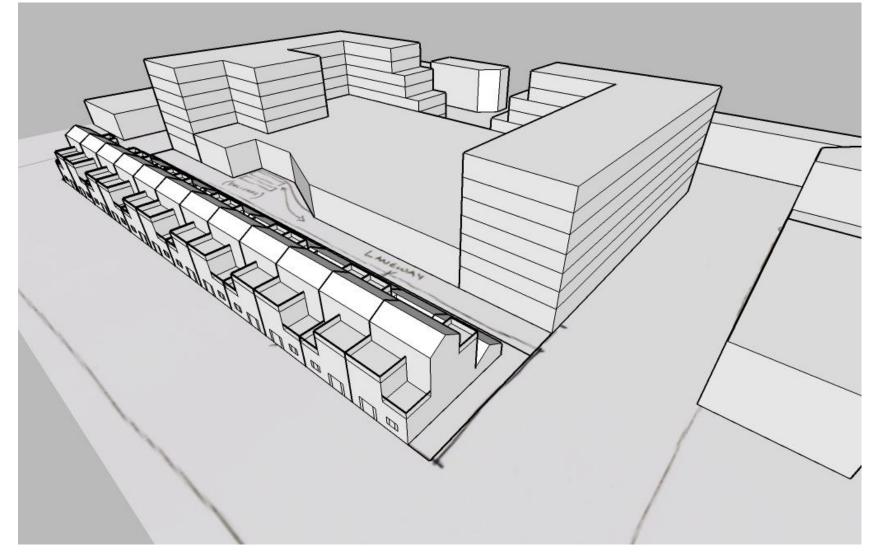
North Perth Plaza



North Perth Plaza

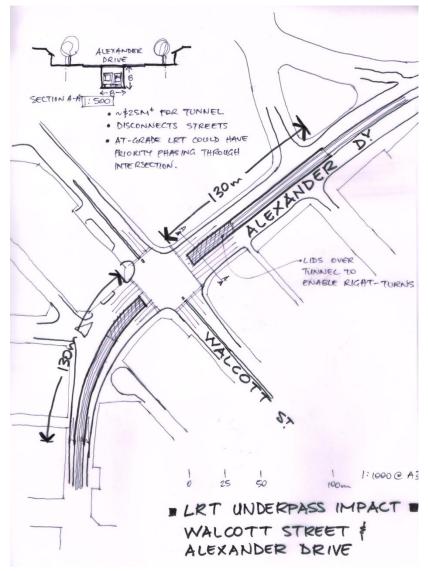


North Perth Plaza

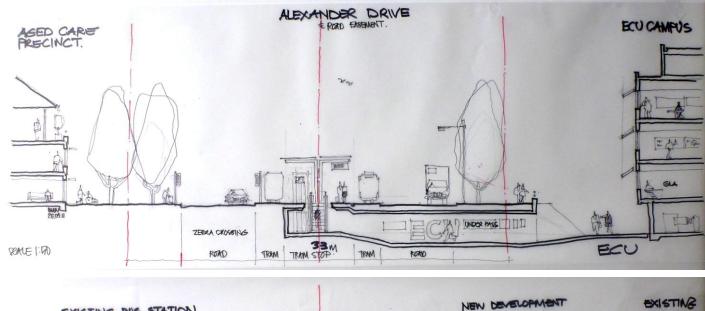


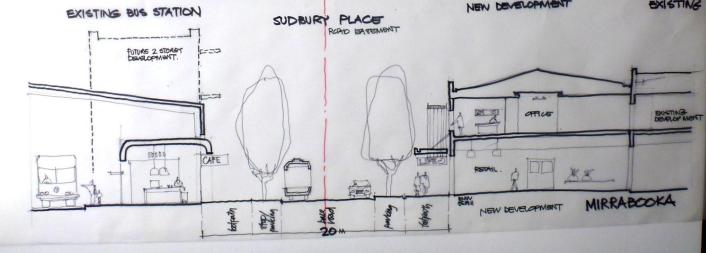
Walcott/Fitzgerald ST Tunnel

- × Approx \$25 M for Tunnel
- × Disconnects Streets
- At-grade LRT could have priority phasing through intersection



Edith Cowan University





Dianella Plaza

- Deviated Bus
 Route through 'main street'
- Redevelopment of Alexander
 Drive frontage
- Residential and retail expansion

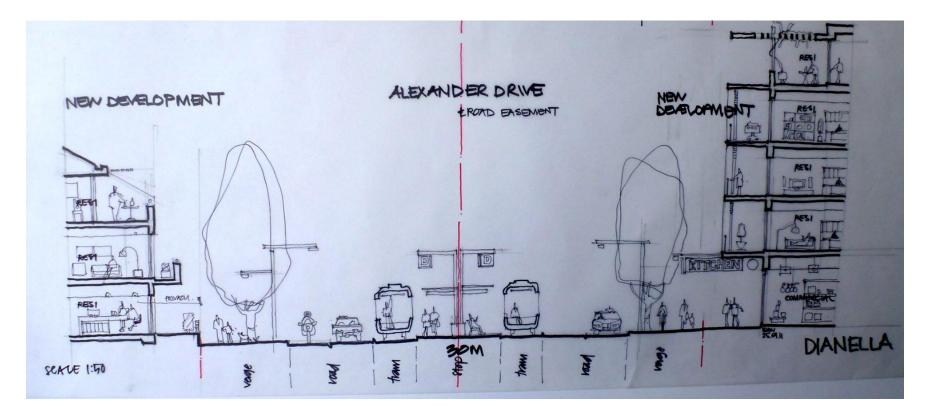


Dianella Plaza

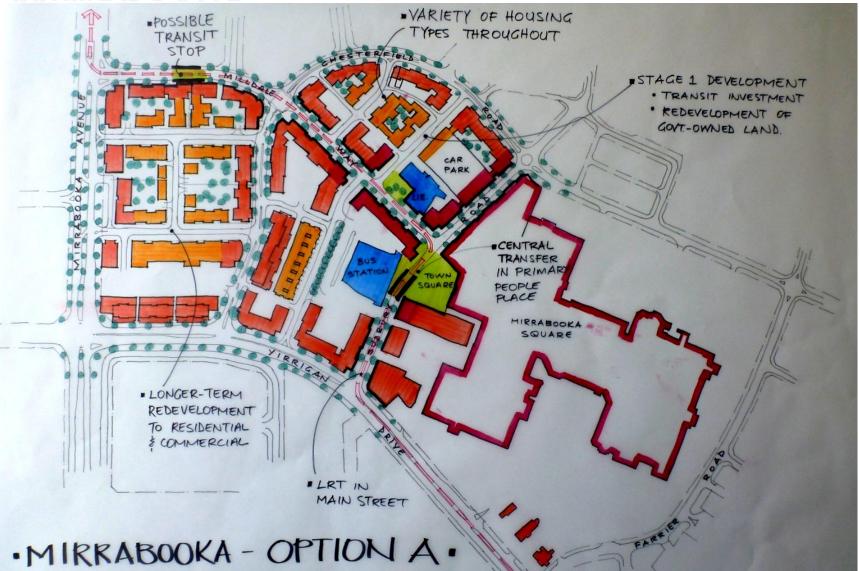
- × 6 Bus stops, 3 layover bays
- × Tram stop



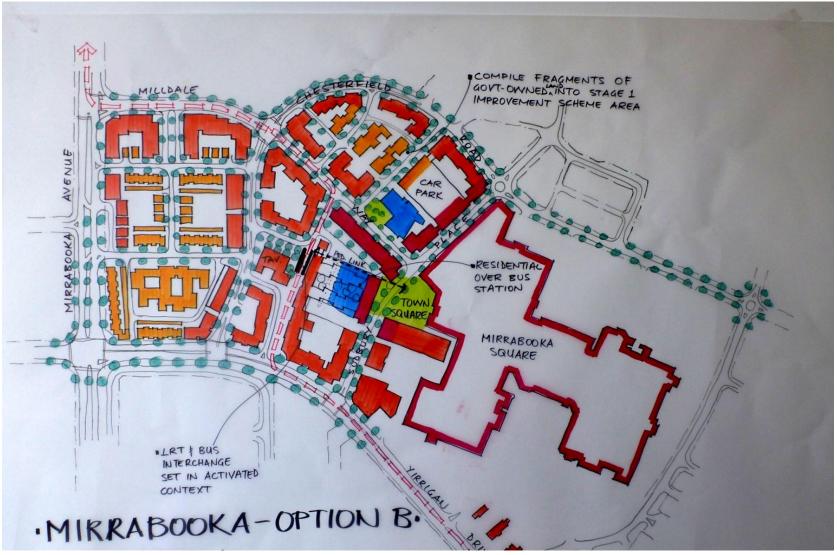
Dianella - Alexander Drive



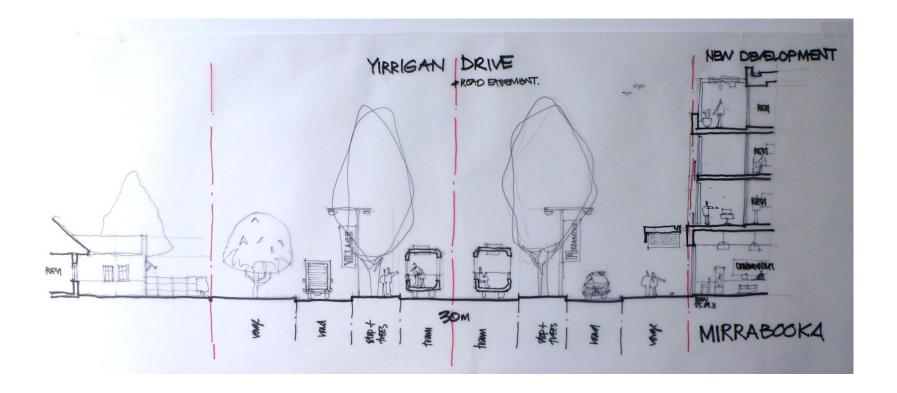
Mirrabooka



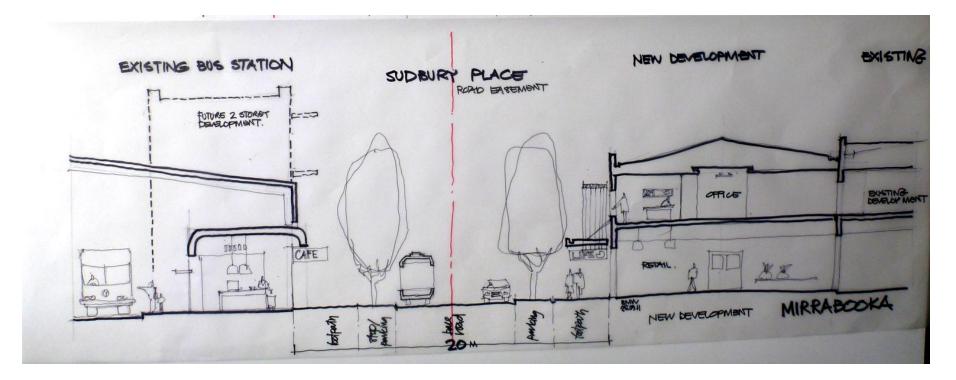
Mirrabooka



Mirrabooka – Yirrigan Drive



Mirrabooka – Sudbury Place



Mirrabooka

- Gradual redevelopment of car-based commercial into a variety of residential and mixed-use types.
- × Approx 450 new dwellings

