



# Riverlea District Centre

## Access Options Feasibility Review

2 June 2021 – S195500

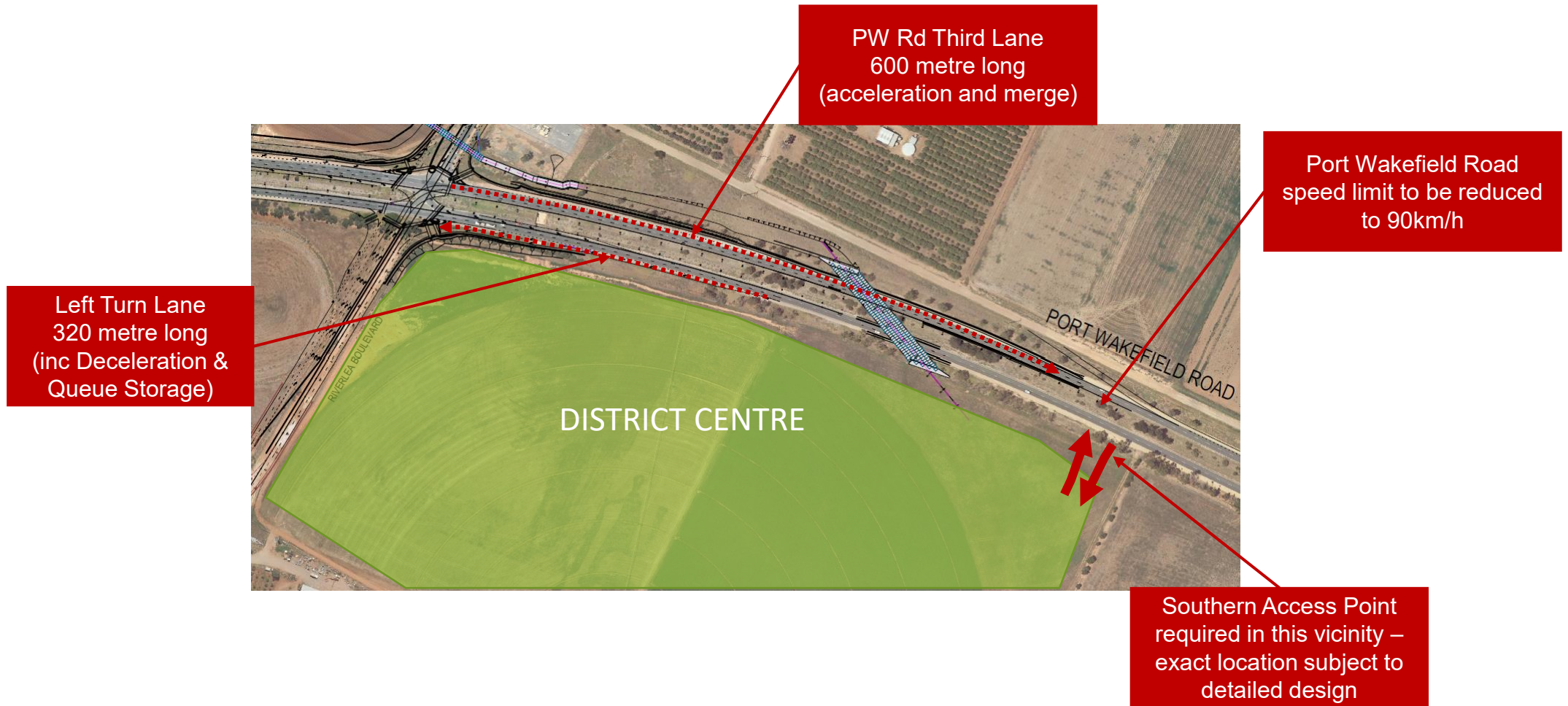
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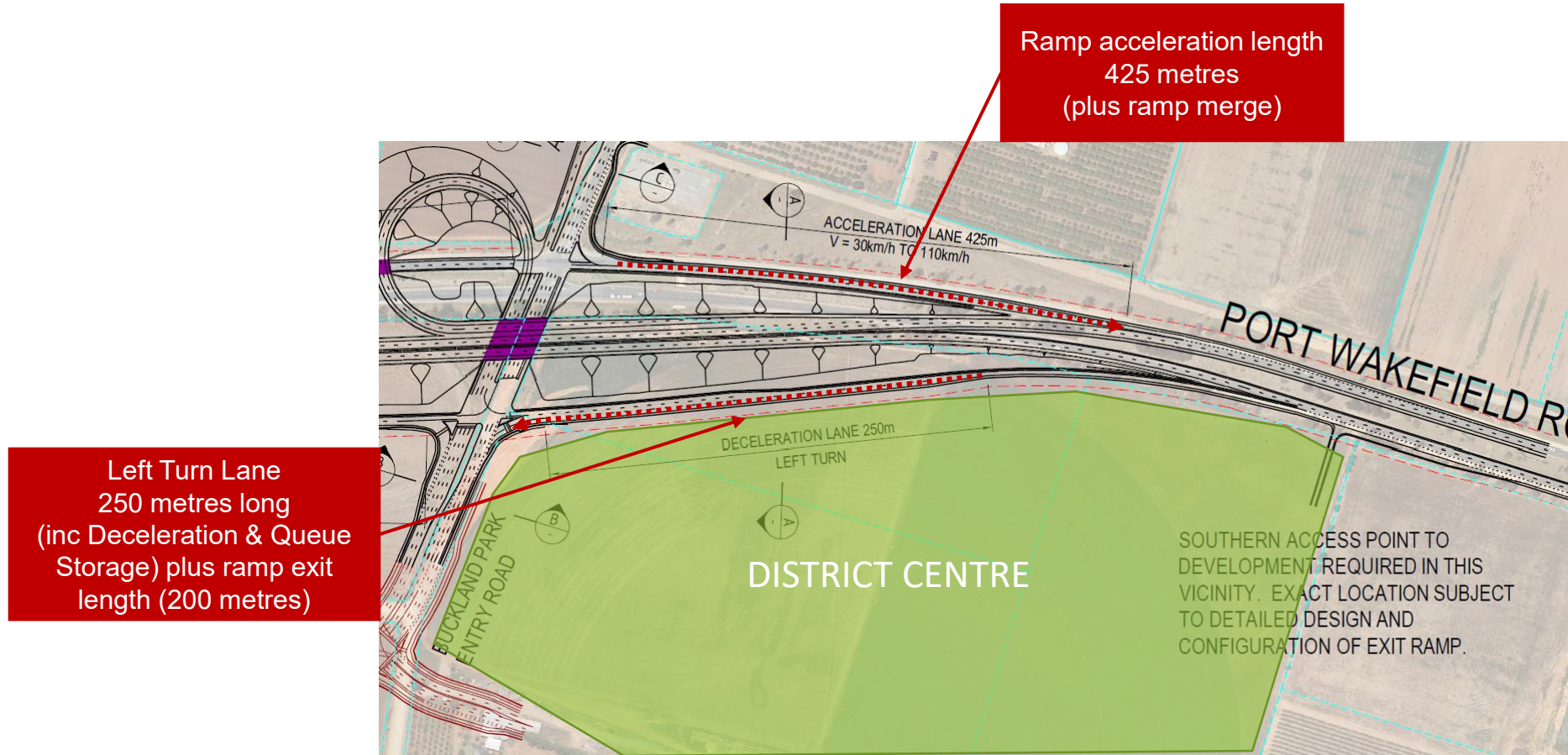
now



# At-Grade Intersection (under construction) and District Centre

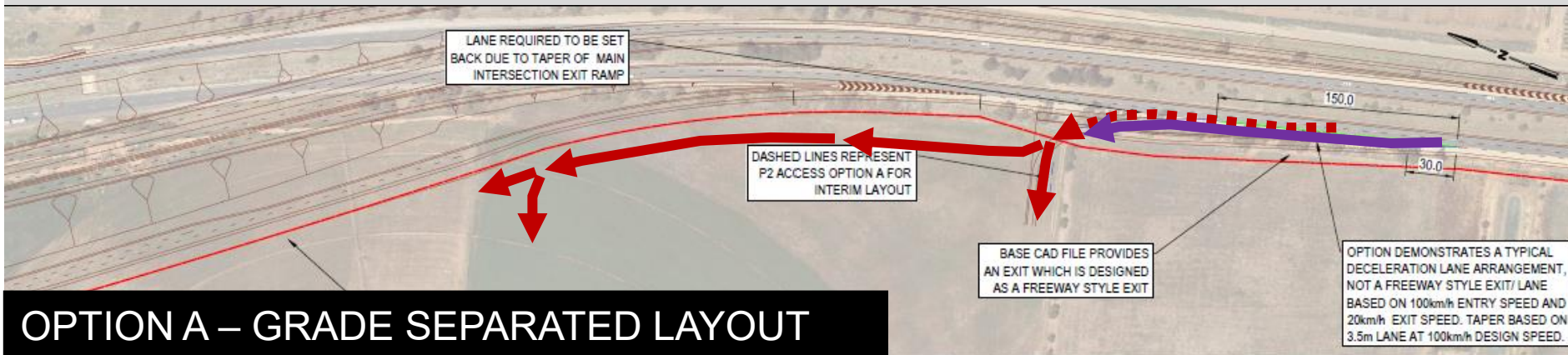
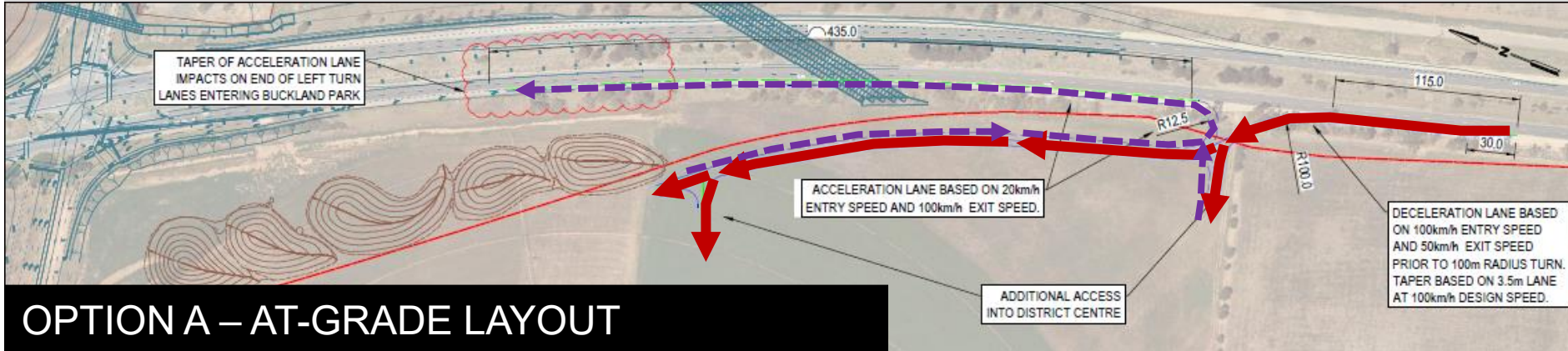


# Proposed Grade Separated Intersection (Future)



# Feasibility – Option A – Southern Access with Service Road

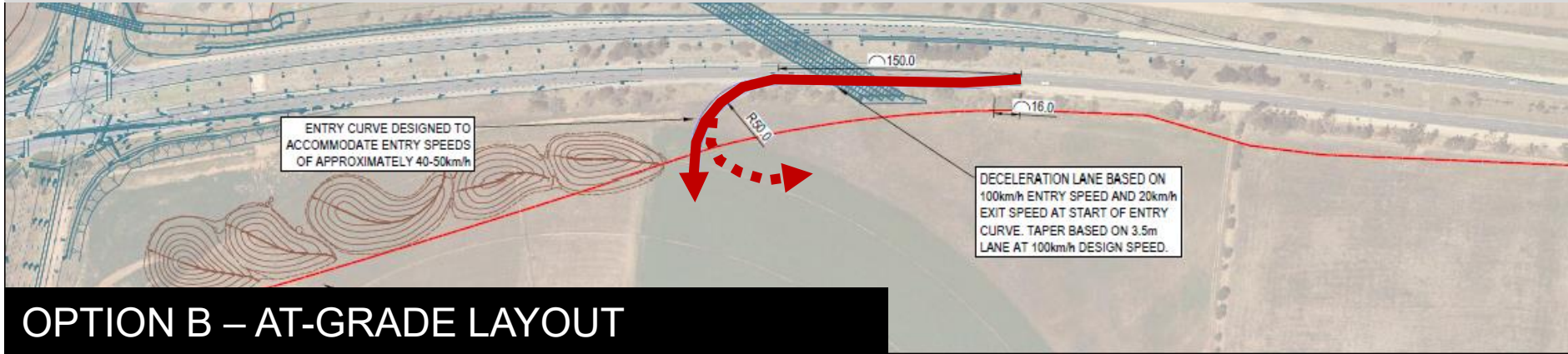
Port Wakefield Road speed limit to be reduced to 90km/h



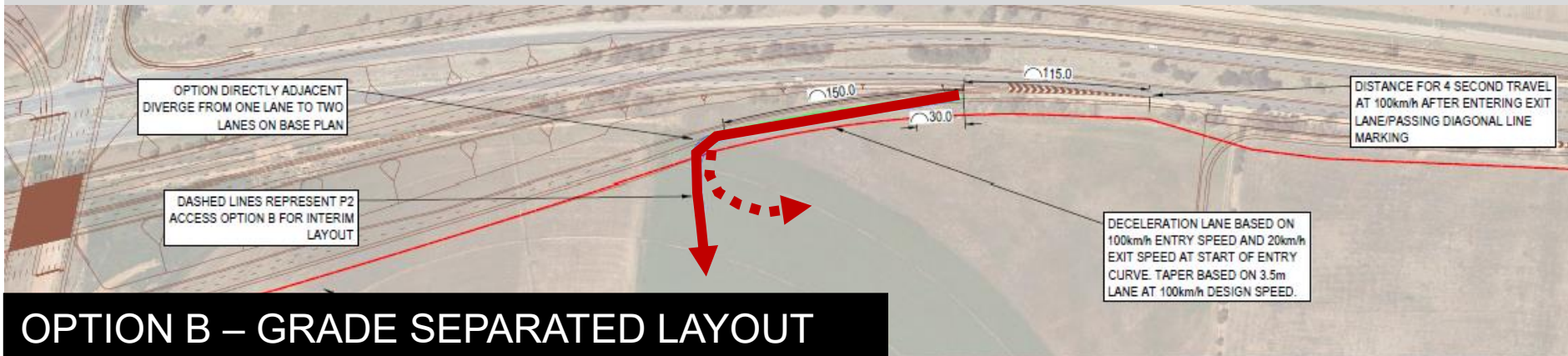
- Entry from PWRd based on standard deceleration lane requirements
- Options for multiple internal access with service road connectivity
- Can avoid earth mounds as required
- Exit to PwRd will conflict with intersection left turn lane if full acceleration lane is required (subject to DIT agreement)

- Similar entry from PWRd based on standard deceleration lane requirements as per at-grade above
- However – entry deceleration lane different to at-grade version due to grade separated lane design
- Opportunity to coordinate design to minimise future changes
- Options for single or dual internal access with service road connectivity as per above

# Feasibility – Option B – Mid-block access

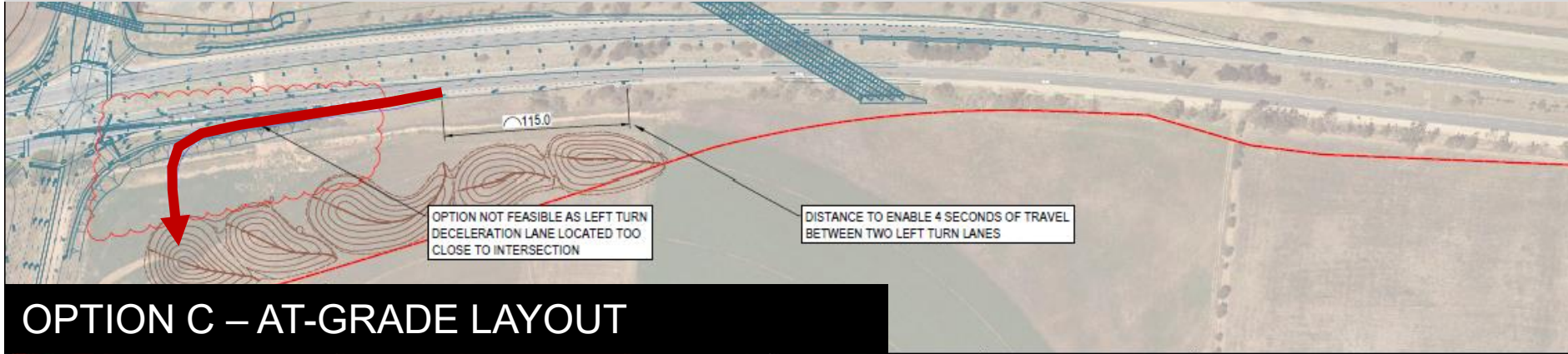


- Entry from PWRd based on standard deceleration lane requirements
- Single access point with internal connectivity (subject to design)
- Can avoid earth mounds as required
- Location constrained by need to be prior to left turn lane at main intersection to north.
- Can move to south if required (subject to culvert location)
- Opportunity for additional connectivity internally as shown



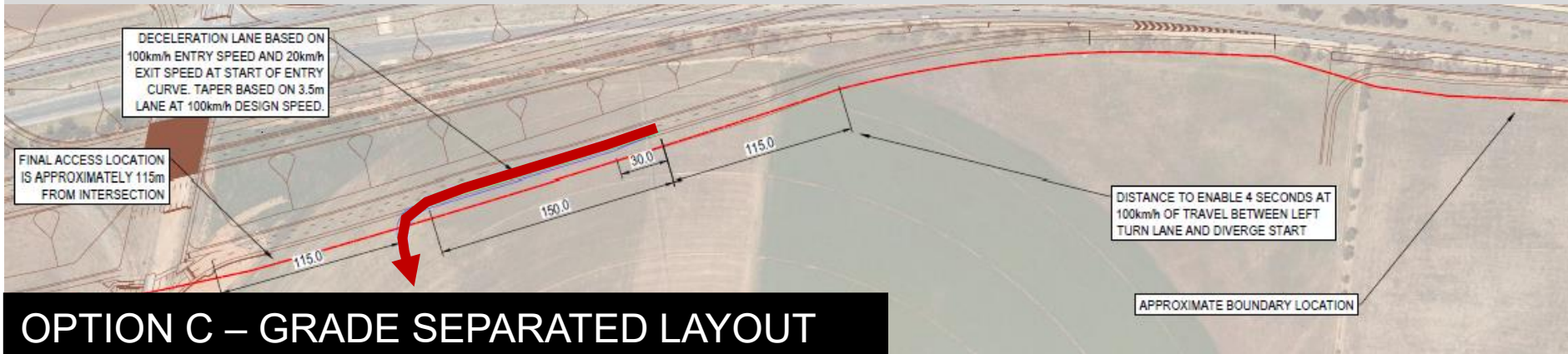
- Similar entry from PWRd based on standard deceleration lane requirements as per at-grade above
- Location constrained by exit ramp arrangement and cannot be moved from location shown
- Coordination with at-grade layout possible to maintain access point into the site
- Opportunity for additional connectivity internally as shown

# Feasibility – Option C – Northern Access



**OPTION C – AT-GRADE LAYOUT**

- Entry from PWRd based on standard deceleration lane requirements
- Single access point with lane based on spacing from start of intersection left turn lane
- Earth mounds will be impacted by access point
- Location constrained by location of left turn lane for intersection



**OPTION C – GRADE SEPARATED LAYOUT**

- Entry from PWRd based on standard deceleration lane requirements
- Single access point with lane based on spacing from start of intersection left turn lane
- Location constrained by location of left turn lane for intersection
- Coordination with at-grade layout not possible due to grade separation ramp location

## OPTION A

### SOUTHERN ACCESS WITH SERVICE ROAD

- Entry from PWRd based on standard deceleration lane requirements
- Options for multiple internal access with service road connectivity
- Can avoid earth mounds as required
- Exit to PWRd will conflict with intersection left turn lane if full acceleration lane is required (subject to DIT agreement)
- At-grade layout access point location can be coordinated with grade separated layout to minimise impacts

**PREFERRED OPTION**

## OPTION B

### MID-BLOCK ACCESS

- Entry from PWRd based on standard deceleration lane requirements
- Single access point with internal connectivity (subject to design)
- Can avoid earth mounds as required
- Location constrained by need to be prior to left turn lane at main intersection to north.
- Can move to south if required (subject to culvert location)
- Opportunity for additional connectivity internally as shown
- At-grade access point location can be coordinated with future grade separated option

**FEASIBLE**

## OPTION C

### NORTHERN ACCESS

- Entry from PWRd based on standard deceleration lane requirements
- Single access point with lane based on spacing from start of intersection left turn lane
- Earth mounds will be impacted by access point
- Location constrained by location of left turn lane for intersection
- At-grade access point cannot be coordinated with future grade separated layout due to ramp design

**NOT FEASIBLE**