

Making, moving and lifting— here come the Super T girders

Coffs Harbour bypass - Fact sheet

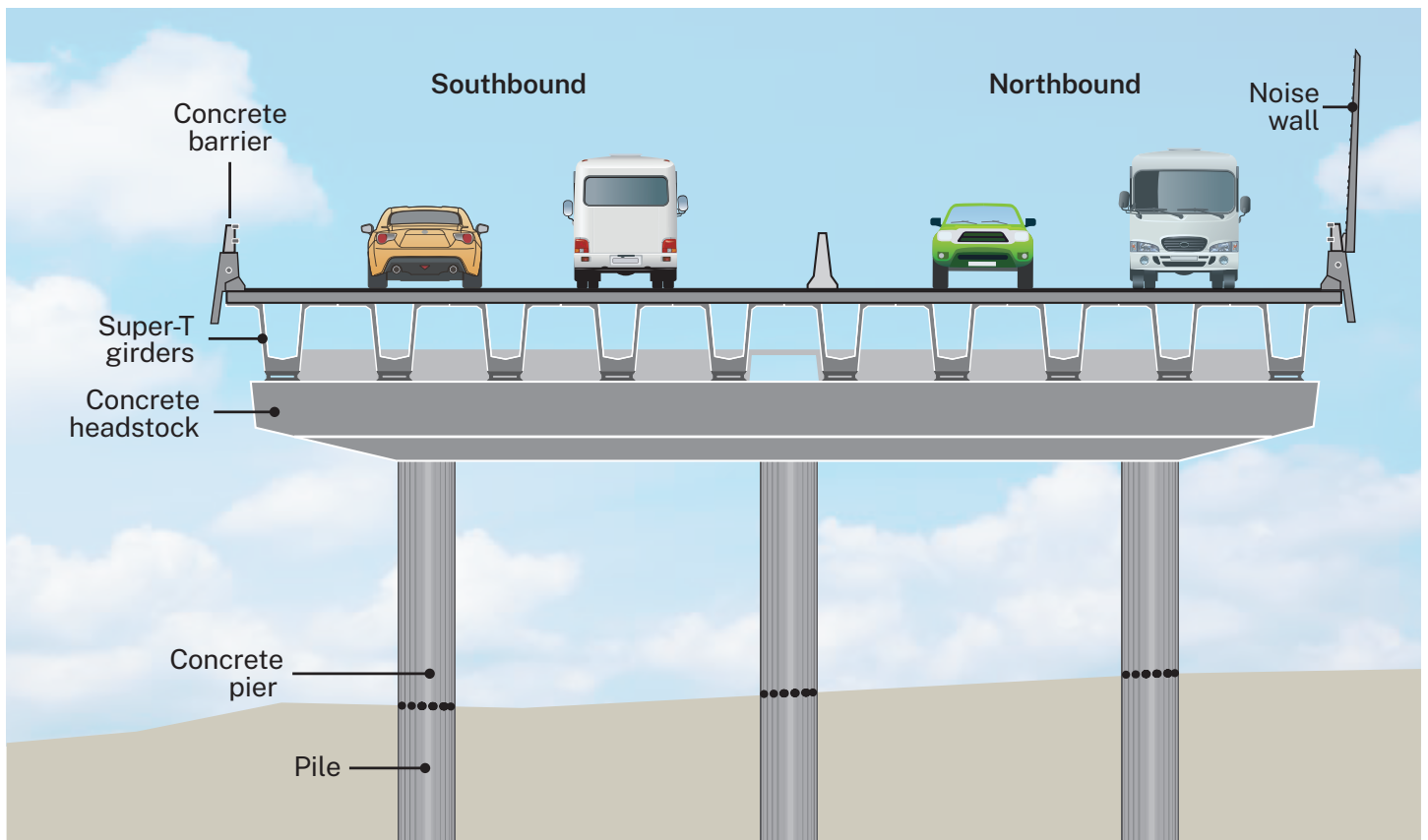
May 2024



Transport for NSW acknowledges the Gumbaynggirr people as the Traditional Custodians of the lands on which we work and pays respect to Elders past and present.

The Australian and NSW governments are funding the 14-kilometre Coffs Harbour bypass project. The bypass will boost the regional economy and improve connectivity, road transport efficiency and safety for all local and interstate motorists.

The Coffs Harbour bypass includes 17 bridge structures that will form a series of overpasses, underpasses, and waterway crossings for the project. Bridge construction started in September 2023 and will continue through to December 2025. For more information on bridge building, read our fact sheet online. The majority of our bridges will be built using precast concrete Super T girders to support the base of the bridge deck. These large concrete bridge segments will be made at an off-site precast yard and transported to our bridge sites for lifting with a crane.



Benefits of using Super T girders

Coffs Harbour bypass bridges have been designed with uniformity and simplicity in mind, optimising construction outcomes and ensuring consistency with other sections of the Pacific Highway.

Using precast Super T girders allows us to build bridges faster than if we were to form and pour the elements on site. This is a more environmentally friendly approach and means less truck movements for improved community and traffic outcomes.

There will be traffic impacts during transportation of the Super T girders to construction sites, however, our

team is committed to minimising impacts by having the oversize, over-mass vehicles operating during off-peak traffic periods.

Girder deliveries

The bypass will make, move, and lift 260 Super T girders in total. These will be transported from our precast yard in Macksville using oversize and over-mass vehicles and escorted with pilot vehicle escorts, where required. The table below outlines how many Super T girders will be delivered to each bridge and which local roads they will travel on.

Bridge	Description	Super T girders required	Transportation via local road
Bridge 02	Bridge over Englands Road Interchange	12	Englands Road
Bridge 03	Bridge over Newports Creek	10	North Boambee Road
Bridge 04	Bridge over North Boambee Road	20	North Boambee Road
Bridge 06	Bridge over Coffs Creek	12	Coramba Road
Bridge 09	Bridge over Hwy10 on Coramba Road	6	Coramba Road
Bridge 11	Bridge over Hwy10 on Shephards Lane	12	Bray Street, Mackays Road, Donn-Patterson Drive, Shephards Lane
Bridge 12	Twin bridges over North Coast Railway	70	Bray Street, Mackays Road, Donn-Patterson Drive, Shephards Lane
Bridge 13	Twin bridges over Mackays Road	11	Bray Street, Mackays Road
Bridge 16	Twin bridges over West Korora Road	10	West Korora Road
Bridge 18	Bridge over northbound entry ramp, Korora Hill Interchange	24	Bruxner Park Road
Bridge 19	Bridge over southbound exit ramp, Korora Hill Interchange	8	Bruxner Park Road
Bridge 21	Bridge over Pine Brush Creek	13	Pacific Highway
Bridge 22	Bridge over Fernleigh Avenue	11	Pacific Highway
Bridge 23	Bridge over Newports Creek (northern tributary)	30	North Boambee Road
Bridge 26	Twin bridges over Jordans Creek tributary	11	Pacific Highway
Total: 260 Super T girders			



Bridge locations:



During peak construction, we expect about five Super T girder deliveries, during off-peak travel times, per day.



Heavy vehicle restrictions during school pickup and drop off:



Did you know heavy vehicles aren't allowed on local roads past schools during pick up and drop off times? To help keep the community safe, no Coffs Harbour bypass construction heavy vehicles use North Boambee Road or James Small Drive during school pick up and drop off times. Learn other traffic safety initiatives at <https://www.pacifichighway.nsw.gov.au/document-library/coffs-harbour-bypass-traffic-safety-fact-sheet>



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How are Super T girders made?

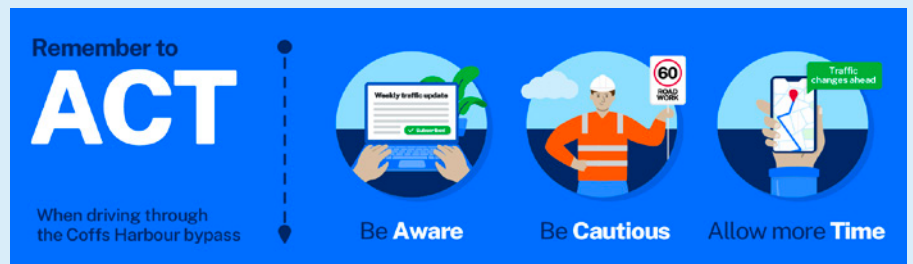


Our Super T girders are being made locally in the Coffs Harbour region. Here's a brief outline of how they are made:

- To construct a Super T girder, reinforcement and pre-stressing strands are placed into a casting bed. The casting bed is the length and depth the Super T girder is required to be to support the bridge.
- Concrete is then poured into the casting bed and given time to cure
- The Super T girder is then transported to the bypass bridge site via the Pacific Highway on an oversize, over-mass truck, sometimes with an escort convoy. This will cause some minor delays for motorists travelling on the highway and local roads.
- Once delivered to the bridge site, the Super T girder is lifted into position using a large crane. Generally, there will be a maximum of two Super T lifting operations on the project at any given time.

Please remember to ACT

It's important to **ACT** when driving near trucks delivering Super T girders. These vehicles are unable to stop suddenly and may require traffic control to assist them through tight intersections. You will be given an opportunity to overtake when it is safe to do so.



Stay updated with traffic changes



For the latest traffic updates, you can call 132 701, visit livetraffic.com or download the **Live Traffic NSW App**.

The Coffs Harbour bypass electronically distributes weekly traffic updates to keep the community and motorists informed about changes to traffic arrangements and road conditions during construction. If you would like to be added to our email notification distribution list, please send an email to community@chbteam.com.au including your name, contact details and address.



Underneath a Super T in place for an oversize, over-mass delivery.

For more information, read our bridge building fact sheet at pacifichighway.nsw.gov.au/coffsharbourbypass or sign up to our weekly update to learn the exact timings of Super T deliveries and bridge works.



Contact us

If you have any enquiries and complaints, please contact the project team on 1800 550 621 or community@chbteam.com.au

https://www.transport.nsw.gov.au/privacy-statement#Your_Privacy



Translation and interpreting service

If you need help understanding this information, please contact the Translating and Interpreting Service on 131 450 and ask them to call us on 1800 550 621



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