

Over 1.64km in new & improved drainage will be installed as a part of the project

North Wagga Drainage Improvement Works

Following from issues raised regarding poor drainage in North Wagga, Council have developed a program of works in one of the most impacted areas. Detailed survey and draft designs for a stormwater drainage works to address these drainage issues in the eastern area of North Wagga have now been completed with initial works ready to commence.

The stormwater drainage works includes a combination of open earthen table drains, open concrete dish drains, buried gravity stormwater pipes and pits, along with a stormwater pump and pressure pipeline (rising main).

Stormwater Pump Station

The new stormwater pump station will be located in the nature strip on the western side of Marah Street just north of Elizabeth Street.

The pump station will be below ground and contained in a concrete pit. It will be connected to the power supply and controlled by a float switch. When the pit fills with water the float will rise activating the pump, pumping the stormwater under pressure via the rising main to the existing stormwater pit in Hampden Avenue. The pump will continue to operate until the level of water in the pit drops causing the float to drop and the pump to turn off. The pump will only be activated when the pit starts to fill with water.

Rising Main

The rising main is designed to operate under pressure pushing the stormwater uphill from the pump station to the existing drainage pit in Hampden Avenue at the intersection of Marah Street. The rising main is approximately 143.5m long and will be laid in the nature strip on the western side of Marah Street. The rising main will be buried and will undercross Elizabeth Street.

Gravity Stormwater Pipes

The gravity stormwater pipes will also be buried. They comprise of 375mm diameter pipes totalling approx 650m in length. The gravity pipes are laid on grade (sloping downwards to the pump station) and will convey the stormwater collected in Marah, Elizabeth, Dunn, Hayes and

Hurst Streets via gravity to the stormwater pump station in Marah Street.

Letter Box Pits

The stormwater drainage works also includes the installation of 16 letter box pits. These are concrete pits with openings at the sides at ground level that receive the stormwater at ground level from the table drains and concrete dish drains into the buried gravity stormwater pipes which then conveys the stormwater to the stormwater pump station.

Open Concrete Dish Drains

The works also includes the construction of 3 separate open concrete dish drains to assist in capturing and conveying stormwater at ground level to the letter box pits. The concrete dish drains are 900mm wide and are used when there is insufficient fall for open table drains. The concrete dish drains can be laid at a flatter grade and will convey water when the natural surface is too flat for the conveyance of water along open earthen table drains.

Concrete dish drains will be installed on;

- western side of Marah Street just north of Hampden Avenue,
- northern side of Hampden Avenue between Marah Street and McGrath Street. This concrete dish drain will also extend across the Road at Hayes Street.

Open Earthen Table Drains

The works also incorporates the reforming and regrading of the roadside table drains in Marah Street, Dunn Street, Hayes Street, Hurst Street and McGrath Street to optimise the flow of stormwater that runs off the roads and nature strips which in turn will minimise pooling.

The depth and width of the table drains will vary according to the slope of the natural surface and their location. Generally they will be formed with a base that is approximately 500mm wide and battered at 1:4. (ie. If the drain is 100mm deep the batter will extend 400mm horizontally). By constructing the batters at 1:4 the table drains are able to be easily mowed and maintained.

Help maintain the drainage systems. Avoid driving or parking on nature strips and table drains.



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Because the area is so flat it is critical that the integrity of the table drains are maintained. The functionality of the table drains can be easily disturbed causing pooling if they are driven through, particularly when it is wet.

To try and reduce vehicular damage to the table drains it is planned to install additional concrete dish drains at driveways. This should help in reducing instances of pooling at driveways due to vehicular traffic and assist in keeping the functionality of the table drains maintained at their optimum level.

Timeframe for works

The works will be built over several years as funding becomes available. We will be utilising existing stormwater funding for building the works. It doesn't have its own budget.

Subject to feedback from the community we would like to be able to build Stage 1 of the works commencing in the next month.

Stage 1 will include the construction of the stormwater pump station and rising main in Marah Street along with the gravity stormwater pipes and the associated pits on the west side of Marah Street from Elizabeth Street to Dunn Road. Stage 1 will also included the reforming of the open earthen table drains that flow into Line 1 and Line 4.

Affected Properties

All properties included in the works will be contacted in writing prior to the works commencing. The North Wagga Residents Association will also be updated throughout the project.

Nature Strips

It is anticipated to commence repair works in the next month alongside the first stage of the drainage works in Marah Street.

Properties that require repairs to nature strips and are located in the drainage improvement works area will

receive temporary repairs until the drainage works are completed.

Once repairs to the nature strips have commenced and regrading some of the table drains, it would be appreciated if every effort is made not to drive or park on nature strips and table drains especially when it is wet.

Because the area is so flat, tyre ruts in and across the drains can cause pooling and impede on the flow of water in the drains and across your nature strips.

More Information

Vanessa Keenan

Community Engagement Officer

1300 292 442

keenan.vanessa@wagga.nsw.gov.au



Letter box pit