

and also a contract for the formation and base-course metalling of approaches. For the Te Hana Overbridge, also on No. 5 State Highway, fifteen concrete piles have been cast.

On No. 6 State Highway the Coronation Bridge, a structure of 103 ft. in length, was completed over the Opanuku Stream, in Henderson Borough.

### *Surveys*

*Northern Outlet.*—Survey of the Oakley Creek to Lincoln Bridge section, a length of 4 miles 50 chains, which is in effect a deviation of No. 5 State Highway, aimed to reduce its existing length by 4 miles 55 chains, was commenced in September, 1947. At 31st March permanent pegging from Lincoln Bridge was 60 per cent. completed.

*Southern Outlet.*—Permanent pegging of approximately 5 miles from the Harp-of-Erin to Otahuhu was continued, and the 3 miles 40 chains to the junction with the proposed south-eastern outlet at Sylvia Park was completed.

Four short deviations on the No. 7 Auckland-Hamilton State Highway have been surveyed between Bombay Hills and Mercer, designed to fit in with the general scheme for improvement to this highway.

*No. 5 State Highway, Birkenhead-Maingaturoto.*—Between Birkenhead and Albany a total length of 3 miles 54 chains of shoulder widening and metalling was carried out by the Public Works Department, and of this length 1 mile 40 chains has been covered by top course.

At Dairy Flat, formation widening, together with improvements to drainage, has been carried out by the Public Works Department over a length of 1 mile 51 chains.

On the Albany - Dairy Flat section 1 mile 43 chains of priming has been completed and a length of 1 mile 21 chains sealed by the Public Works Department.

Between Orewa and Waiwera two sections, totalling 1 mile 60 chains, were resealed by the Public Works Department. A private contract was let for plant mix on four sections between Silverdale and Hatfield's Beach, a total of 4 miles 70 chains being completed.

Drainage and footpath improvements are in hand at Orewa.

Between Waiwera and Puhoi, 2 miles 39 chains of road were resealed, and plant mix was laid over a length of 2 miles 4 chains at Puhoi. Resealing was also completed over 3 miles 52 chains in Dome Valley and 78 chains at Te Hana. Between Te Hana and Topuni 4 miles 44 chains were resealed.

In Warkworth Township, 1 mile 18½ chains of highway were treated with plant mix. Mill Lane junction in this town has been covered with top course and is now ready for sealing.

*No. 6 State Highway, Auckland-Helensville.*—In Henderson Borough the new bridge over the Opanuku Stream was completed and is now open for traffic. Formation and metalling of approaches is in hand.

In Waitemata County area, resealing was carried out at Waimauku over a length of 12 chains, and between Waimauku and Huapai a length of 2 miles 23 chains was completed by contract. Formation of a parking area at Kumeu Saleyards has been completed.

On Woodhill-Ohirangi section, 28 chains of reconstruction were completed at Woodhill, and top course laid. One mile 77 chains of this section has been primed ready for sealing. At Te Pua, widening of shoulders is progressing, top-course metal being added.

In Helensville Borough a length of 8 chains was primed and sealed.

Plans are being prepared for the realignment of 47 chains of highway at the northern end of the Borough.

*No. 7 State Highway, Auckland-Hamilton.*—The work of widening the existing Great South Road from the Harp-of-Erin to Green Park Road junction involved the