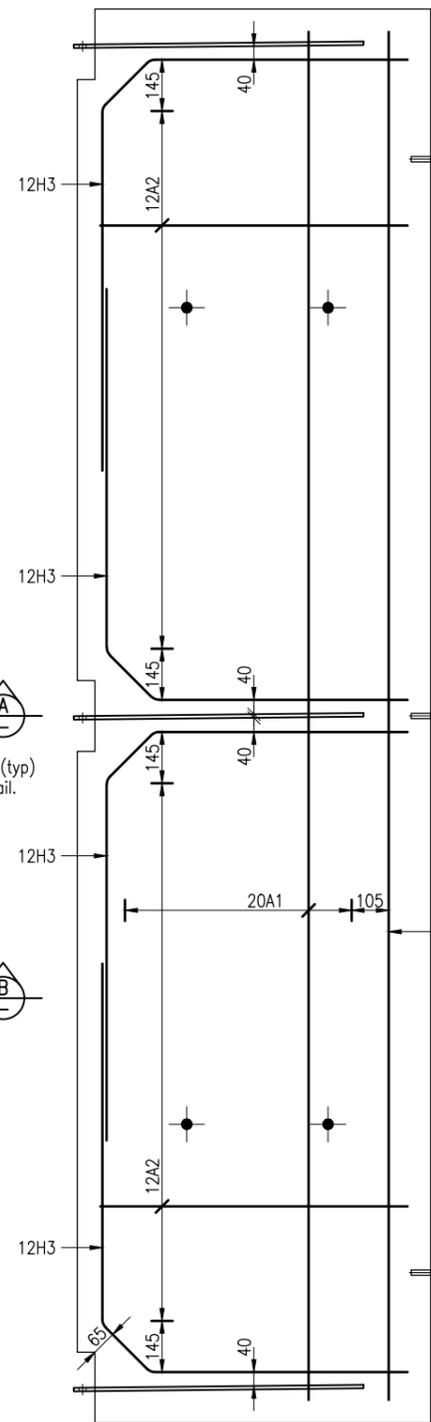
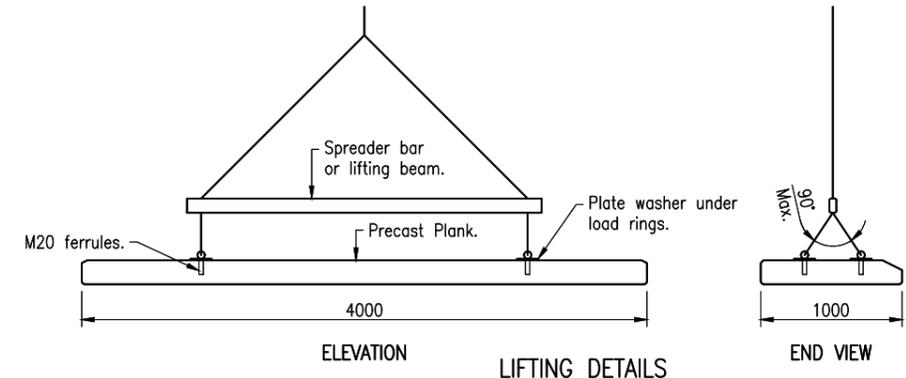


PLAN

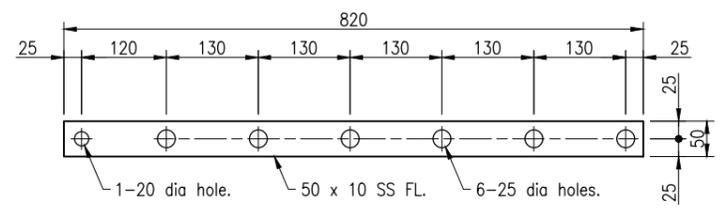


REINFORCEMENT PLAN

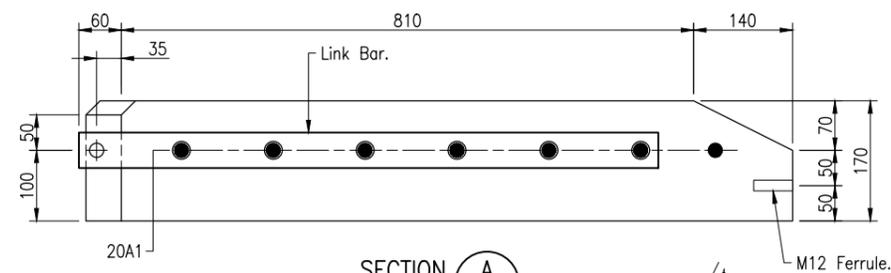


ELEVATION LIFTING DETAILS

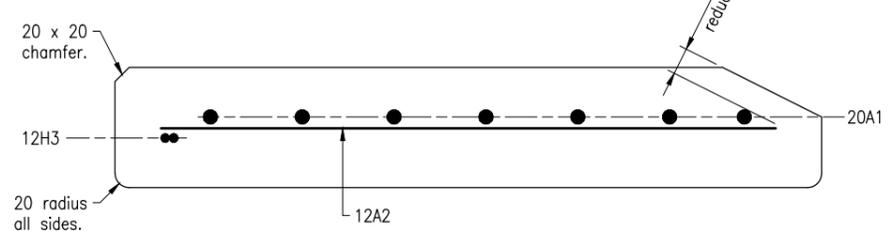
END VIEW



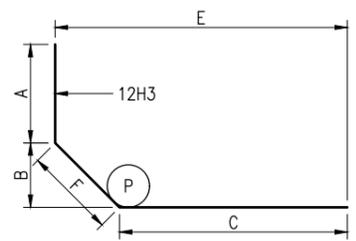
LINK BAR DETAIL
(Quantity = 3)



SECTION A



SECTION B



BAR DIMENSIONS

NOTES:

- FABRICATION: Precast planks shall be manufactured to MRTS72.
- DESIGN LOADING: This plank is designed for a multi axle trailer of maximum 2 tonnes per axle at minimum 750 centres. This plank shall only be used for recreational boating facilities with a signed maximum load limit of 8 tonnes per lane.
- CONCRETE: The design mix shall be S50/20 Exposure Class C2 in accordance with MRTS70.
- REINFORCING STEEL: All reinforcing steel shall be supplied in accordance with MRTS71. Carbon reinforcing steel and tie wires shall be hot dip galvanised to AS/NZS 4680. Deformed bars: Grade D500N. Minimum cover to carbon reinforcing steel: 65 unless shown otherwise.
- LINK BARS: Link bars shall be Grade 316 stainless steel flats in accordance with ASTM A276. All sharp edges shall be removed and neatly finished.
- TRAFFICABLE SURFACE FINISH: The concrete matrix shall be removed to about 1mm below the top of the exposed aggregate to achieve a non-slip finish.



- MASS of Type T4000 plank is 1650 kg. MASS of Type T3500 plank is 1450 kg. The mass shall be clearly and permanently marked on a side surface.
- M12 and M20 FERRULES shall be Grade 316 stainless steel footed ferrules - either:

Registered Supplier	Product Number (M20)	Product Number (M12)
Reid	FE20095SS	FE12055SS
Ancon	FF2096S316	FF1250S316

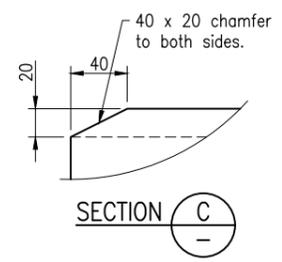
- LIFTING, TRANSPORTATION AND STORAGE: Planks shall not be moved before attaining a minimum strength of 32 MPa. Lifting shall be in accordance with the Lifting Details diagram. Transport and storage shall be in accordance with MRTS72.
- DIMENSIONS are in millimetres unless shown otherwise.

Departmental Specifications:

- MRTS70 Concrete.
- MRTS71 Reinforcing Steel.
- MRTS72 Manufacture of Precast Elements.

Australian and International Standards:

- AS/NZS 4680 Hot-dip Galvanized (Zinc) Coatings on Fabricated Ferrous Articles.
- ASTM A276 Standard Specification for Stainless Steel Bars and Shapes.



SECTION C

SCHEDULE

PLANK TYPE	DIMENSIONS		REINFORCEMENT											
	'X'	'Y'	Bar Mark	Grade and Size	Shape	P	A	B	C	E	F	Length	Quantity	Centres
T4000	4000	1800	20A1	N20	A	-	3870	-	-	-	-	3870	7	130
			12A2	N12	A	-	870	-	-	-	-	870	24	138
			12H3	N12	H	60	1020	140	715	855	198	1933	4	-
T3500	3500	1550	20A1	N20	A	-	3370	-	-	-	-	3370	7	130
			12A2	N12	A	-	870	-	-	-	-	870	20	138
			12H3	N12	H	60	900	140	715	855	198	1813	4	-

Department of Transport and Main Roads

PRECAST PLANKS FOR BOAT RAMP

TYPES T4000 AND T3500

Standard Drawing No **4002**
Date 7/23

Not to Scale

CC BY

© The State of Queensland (Department of Transport and Main Roads) 2022
<http://creativecommons.org/licenses/by/4.0/>