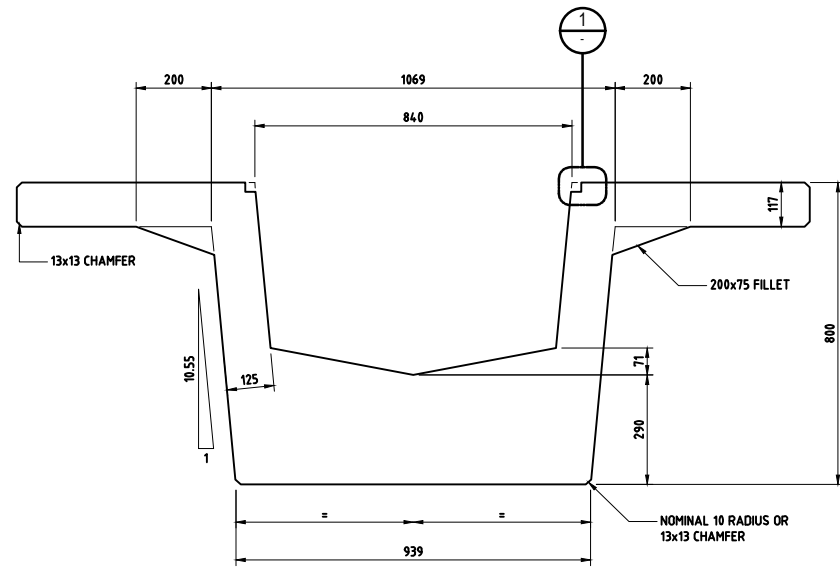
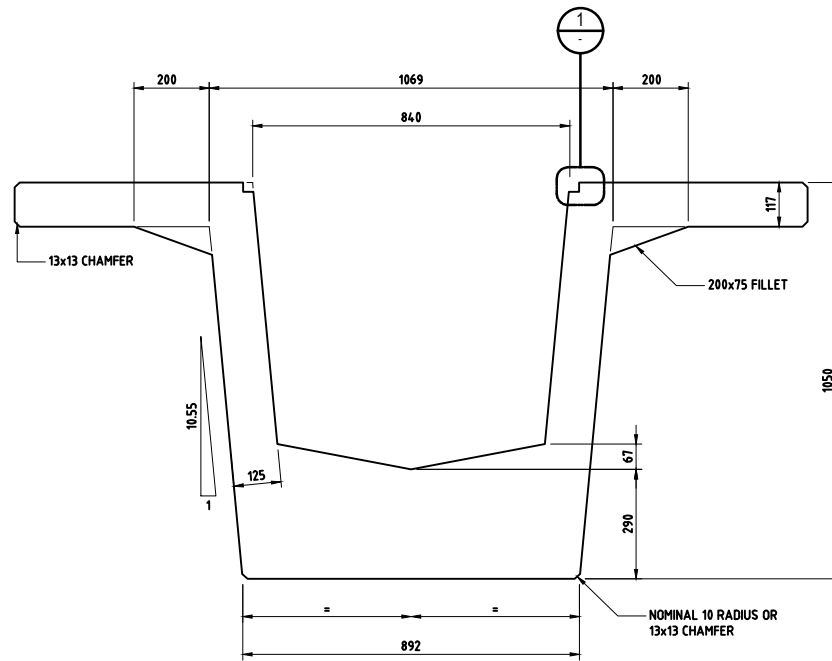
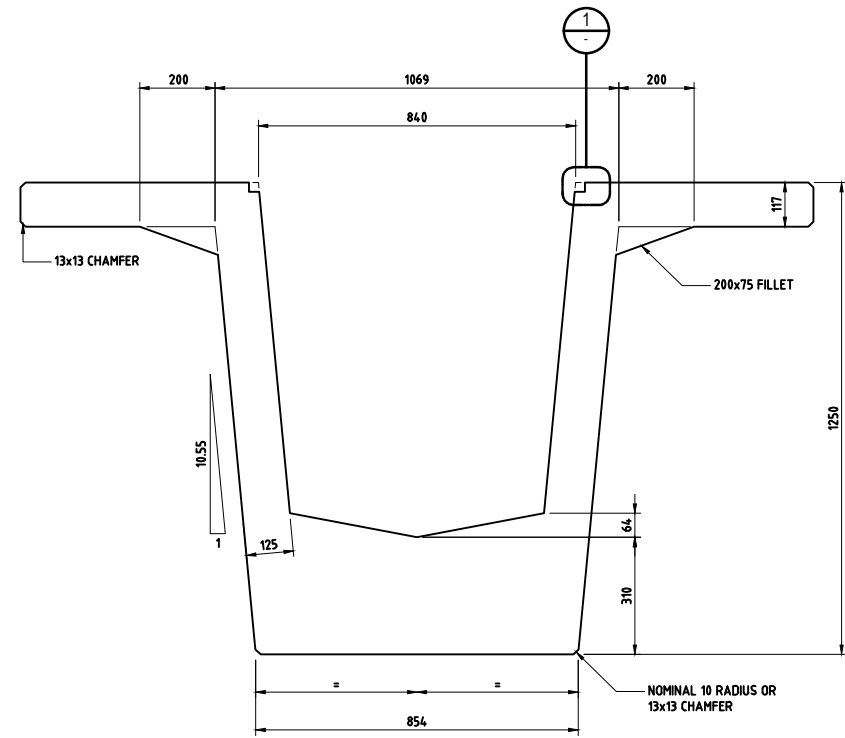




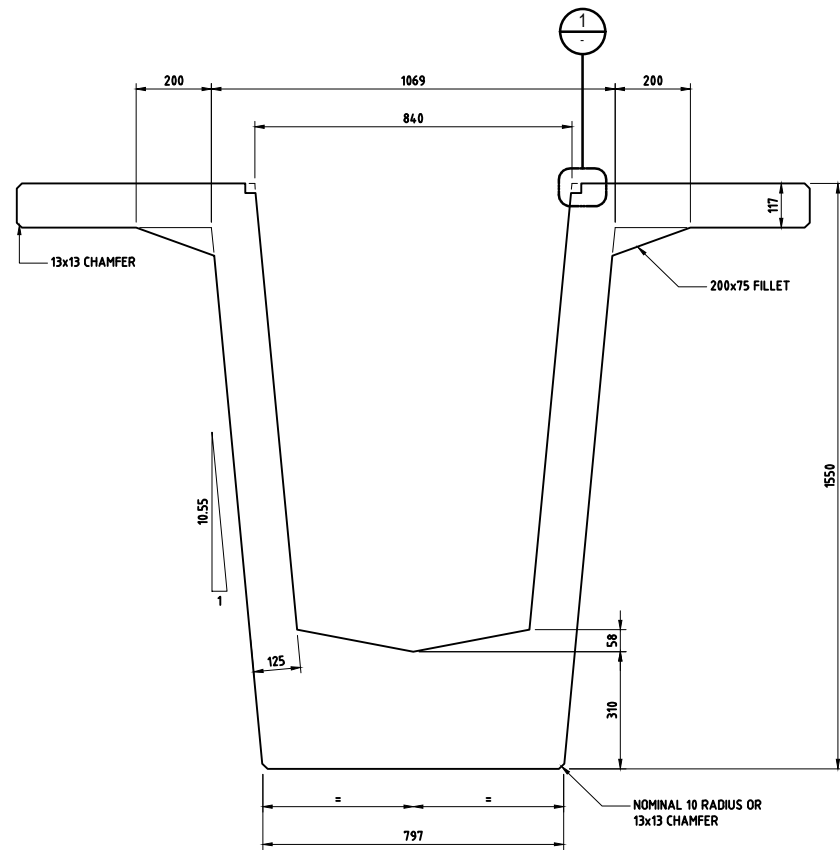
TYPE 1 (800 DEEP)
SCALE 1:10



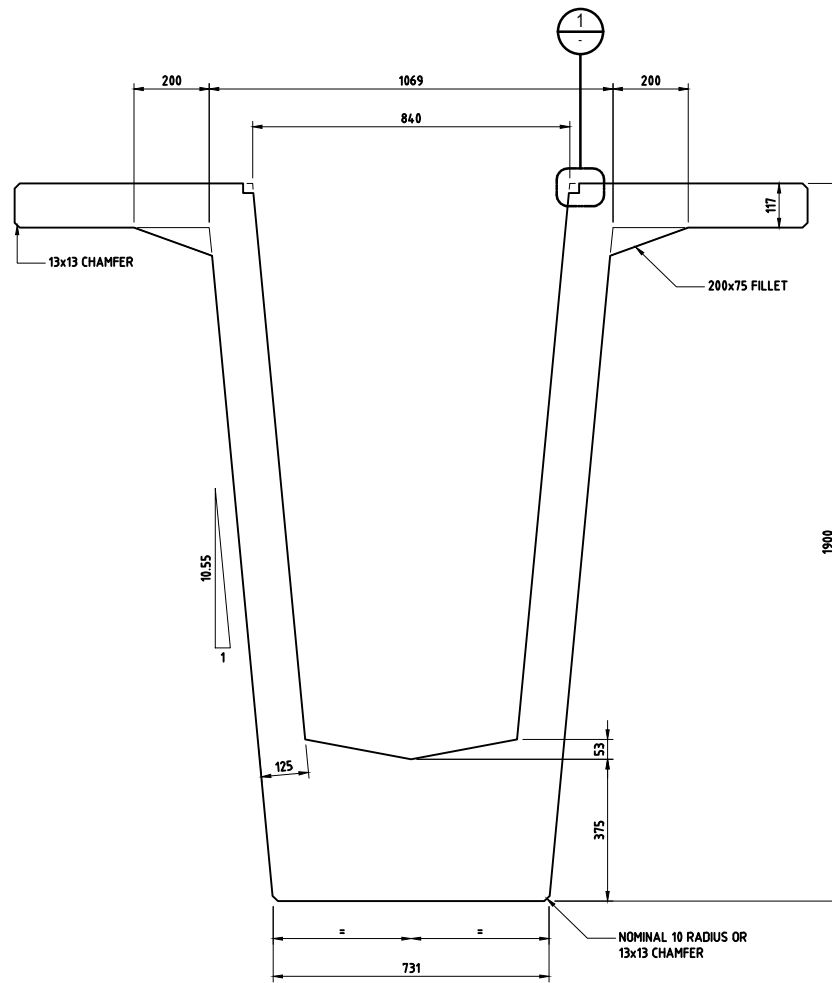
TYPE 2 (1050 DEEP)
SCALE 1:10



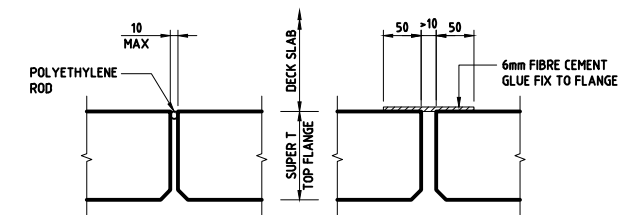
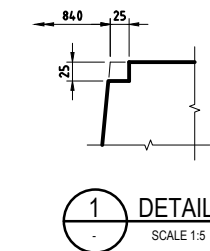
TYPE 3 (1250 DEEP)
SCALE 1:10



TYPE 4 (1550 DEEP)
SCALE 1:10

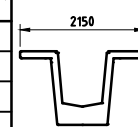


TYPE 5 (1900 DEEP)
SCALE 1:10



SEALING DETAILS
JOINTS BETWEEN Q-BEAMS
(TO PREVENT LOSS OF CONCRETE AT DECK POUR)
SCALE 1:5

OPEN FLANGE - SECTION PROPERTIES BASED ON TOP FLANGE WIDTH OF 2150mm							
TYPE	INDICATIVE SPAN (m)	DEPTH (mm)	A (mm ²)	I (x10 ⁹) (mm ⁴)	Y _b (mm)	Z _x (x10 ³) (mm ³)	Z _y (x10 ³) (mm ³)
T1	12-17	800	565861	4.043	381	9.650	10.613
T2	14-21	1050	611622	8.182	496	14.770	16.497
T3	16-24	1250	661823	12.761	588	19.276	21.702
T4	20-28	1550	716068	21.633	740	26.707	29.234
T5	25-34	1900	815801	36.251	903	36.360	40.145



- NOTES:
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
 - INDICATIVE SPAN RANGE SHOWN IS FOR SIMPLY SUPPORTED CONDITIONS. DESIGNERS ARE TO CONSIDER ECONOMISING THE BEAMS IN CONTINUOUS CONSTRUCTION.
 - TOP FLANGE WIDTH SHOWN AT 2150mm. MAXIMUM FLANGE WIDTH TO BE 2300mm, MINIMUM SPACING OF 1800mm FOR ALL FLANGES.
 - MINIMUM 28 DAY COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 60 MPa (CUBE)
 - MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT TRANSFER TO BE 50 MPa (CUBE)
 - PERMANENT FORMWORK SHALL BE IN ACCORDANCE WITH BA 36/90. GALVANISED STEEL FORMWORK WILL NOT BE PERMITTED. LONGITUDINAL JOINTS IN BETWEEN PANELS AND AT JOINT WITH PRECAST BEAM SHALL BE SEALED TO PREVENT GROUT LOSS.
 - SLAB THICKNESS SHALL BE TYPICALLY 200mm THICK.

Rev.	Date	Revision Details	Appd.
1	23/10/2013	REVISED LOGO AND DWG NUMBER	I. FLYNN

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PA
PROJECTS AFFAIRS

QCS Section: 5 (CONCRETE)
PART 1 (GENERAL)

Drawing Title: Q-GIRDER SECTIONS

Approved: I. FLYNN	Sheet No: 1 OF 1
Date: OCTOBER 2013	Scale: AS SHOWN @ A1
Drawing Number: SD 5-1-101	Revision: 1