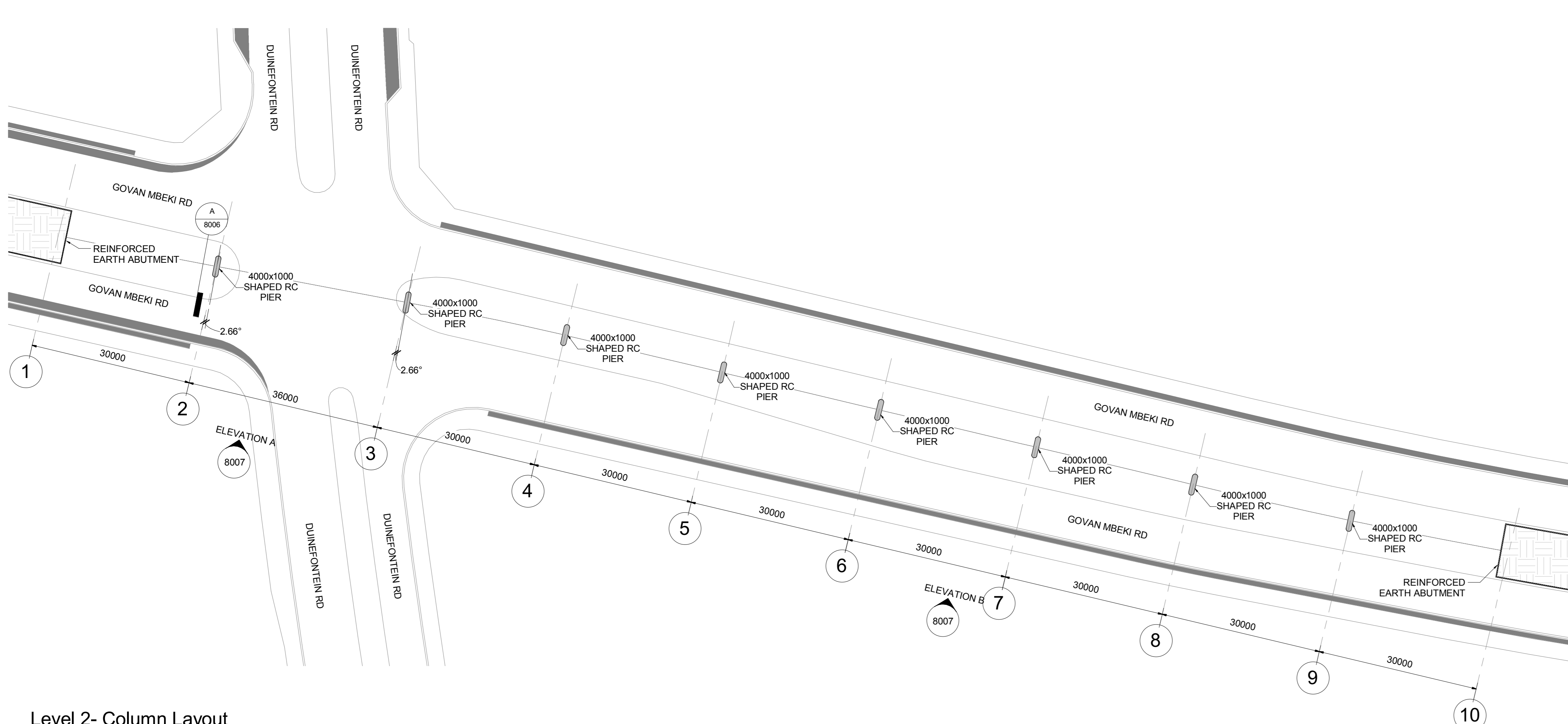
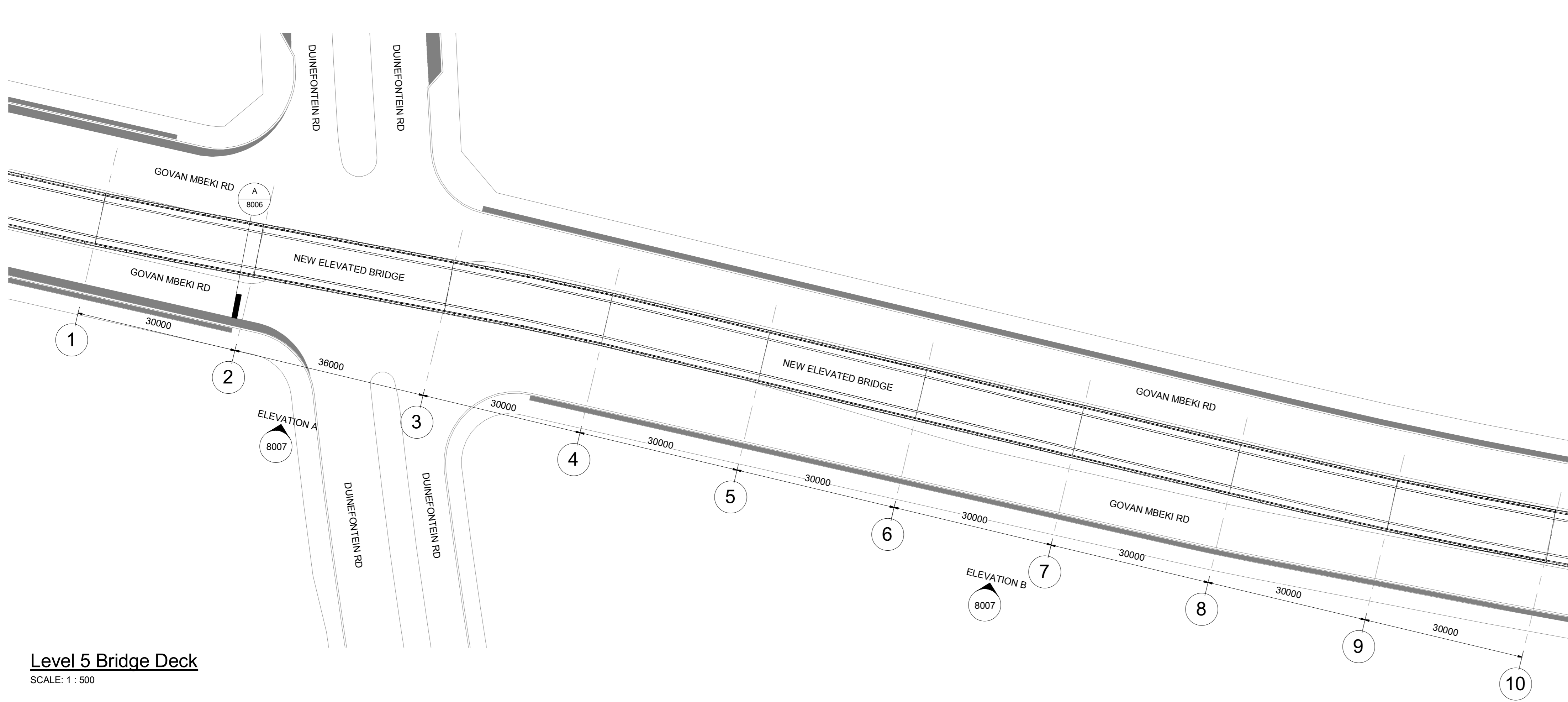


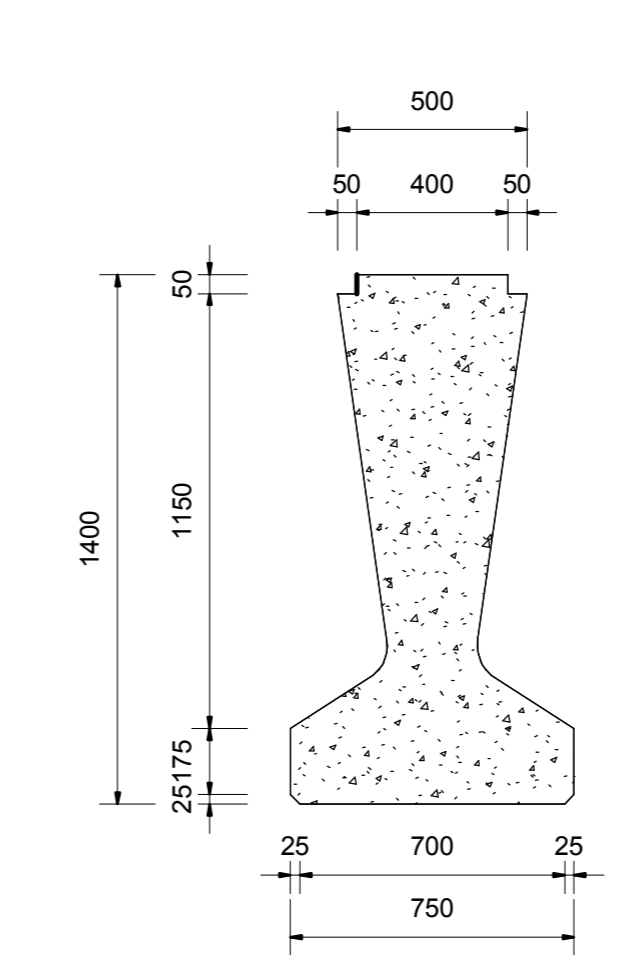
Level 0 Pile Layout
SCALE: 1 : 500



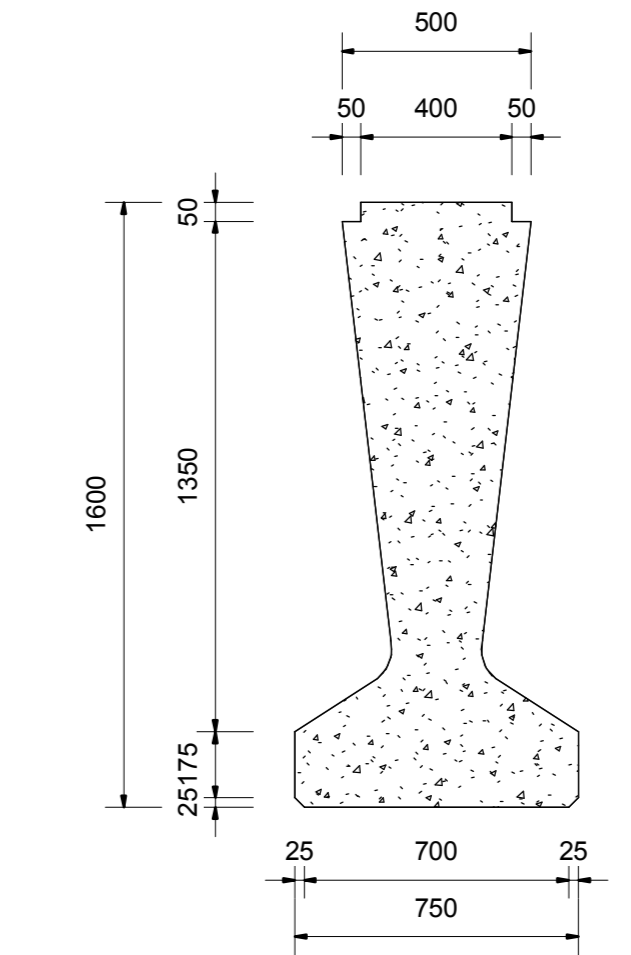
Level 2- Column Layout
SCALE: 1 : 500



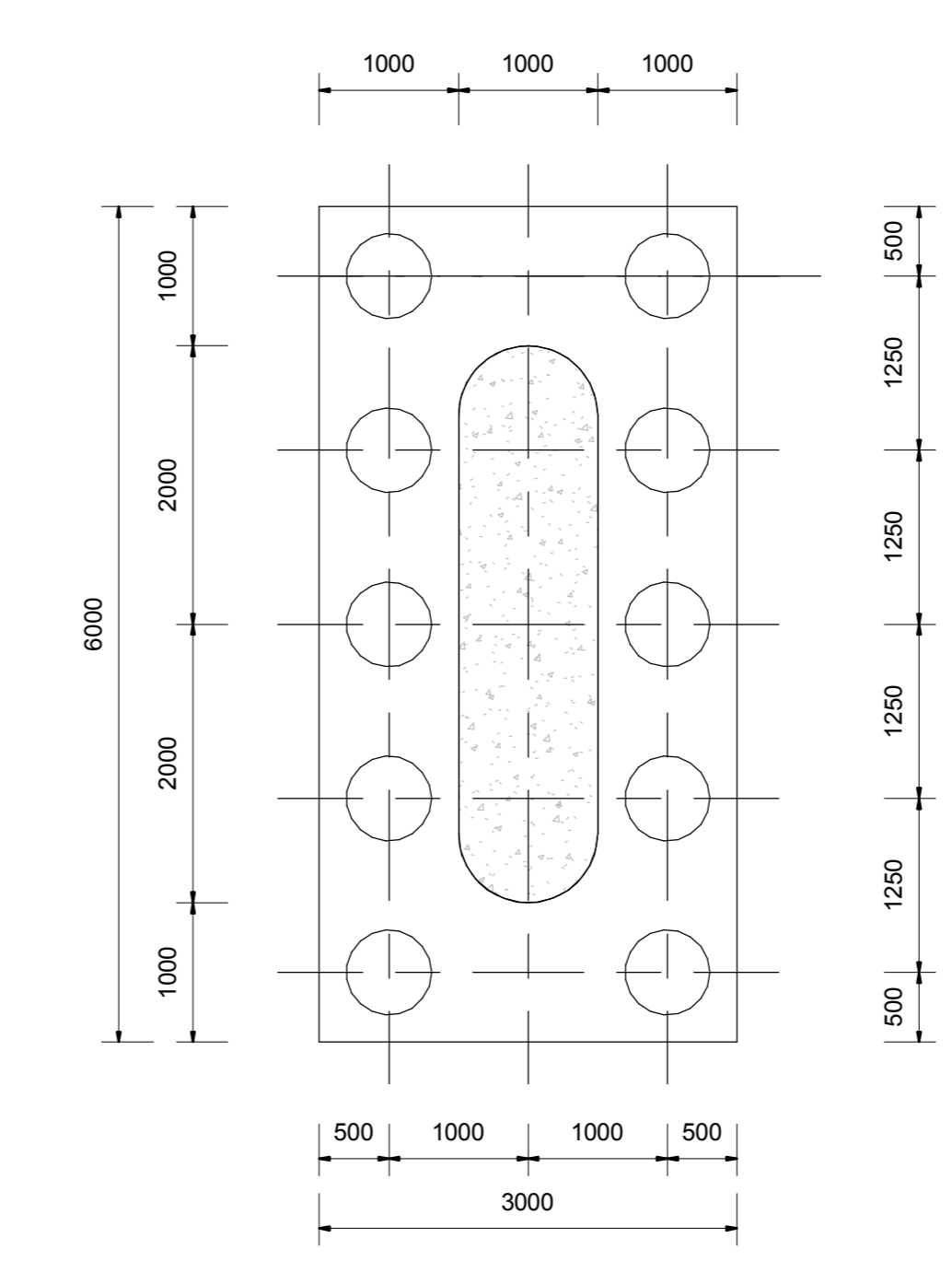
Level 5 Bridge Deck
SCALE: 1 : 500



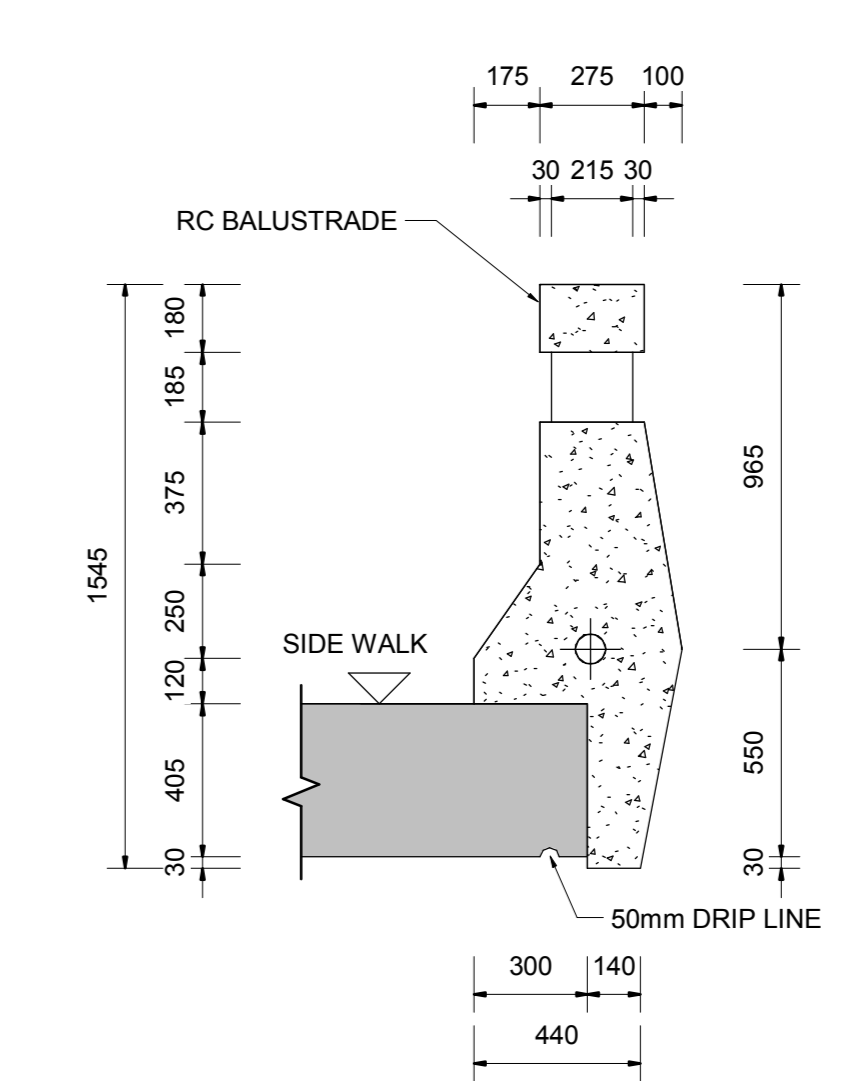
TYPICAL PRECAST BEAM - TYPE Y8
(30m SPANS)
SCALE: 1 : 20



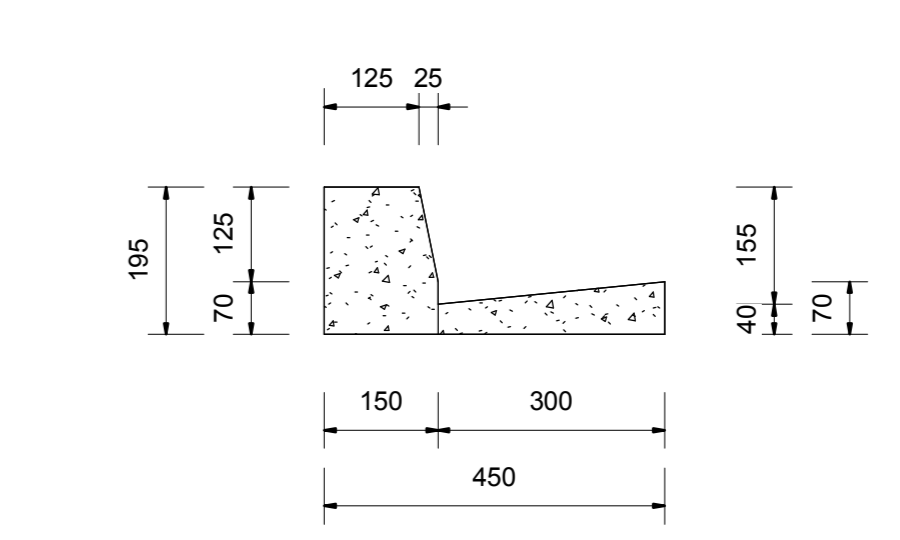
TYPICAL PRECAST BEAM - TYPE Y10
(36m SPAN)
SCALE: 1 : 20



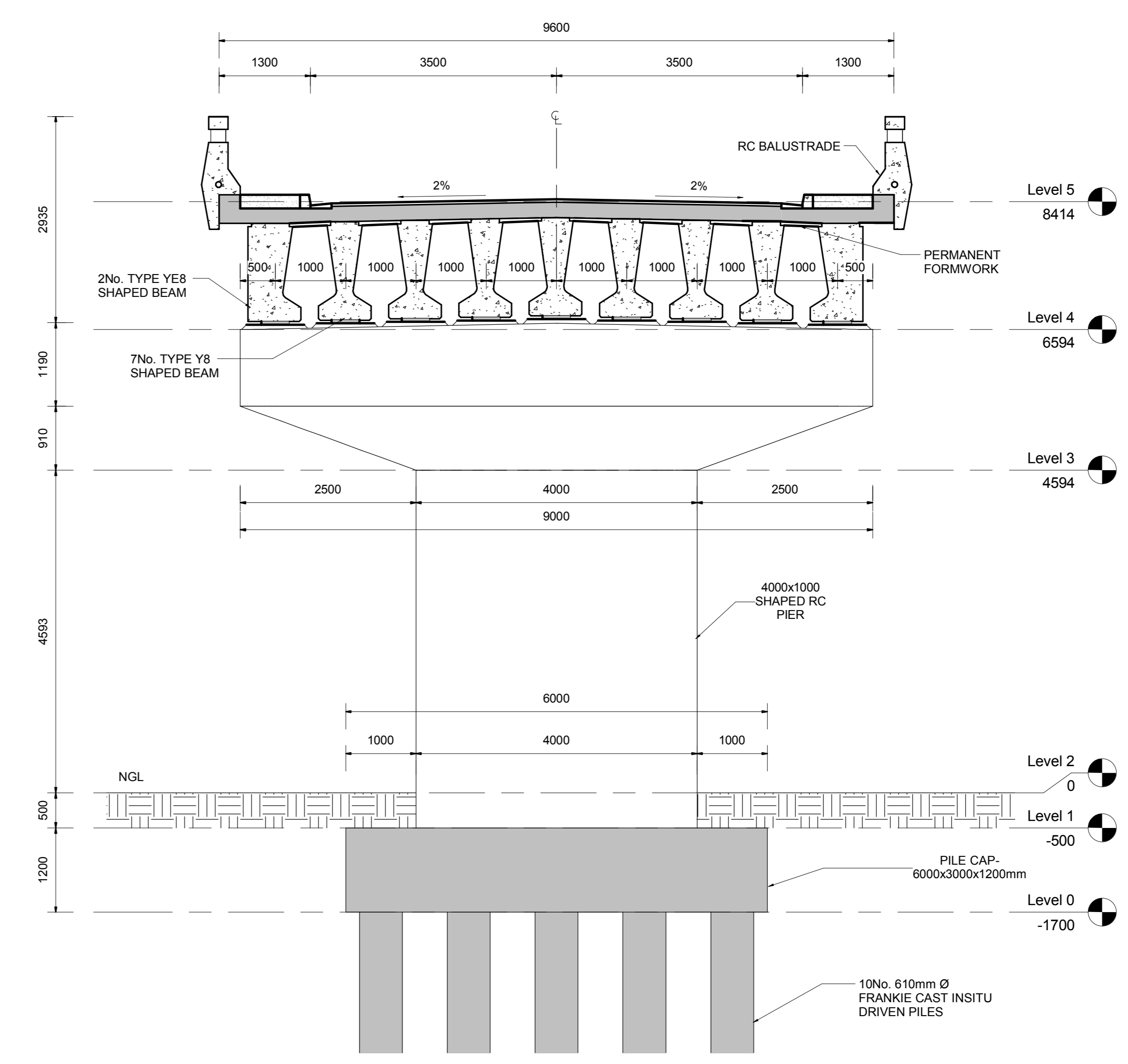
6000x3000x1200 DP PILE CAP
SCALE: 1 : 50



BALUSTRADE DETAIL
SCALE: 1 : 20



KERB AND CHANNEL DETAIL
SCALE: 1 : 10



SECTION A-A
SCALE: 1 : 50

TO BE READ IN CONJUNCTION WITH DRAWING E01-8007

ALL DIMENSIONS AND LEVELS ARE TO BE VERIFIED ON SITE BY THE CONTRACTOR BEFORE COMMENCING ANY WORK.

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- GENERAL NOTES:**
- CODES OF PRACTICE**
DESIGN LOADING: IN ACCORDANCE WITH PARTS 1 AND 2 (1981), AS AMENDED (1988); CODE OF PRACTICE FOR THE DESIGN OF HIGHWAY BRIDGES AND CULVERTS IN SOUTH AFRICA. PRIMARY LEVEL LOAD CAPACITY IS NA.
 - DESIGN:** IN ACCORDANCE WITH TMH7 - PART 3 (1989); CODE OF PRACTICE FOR THE DESIGN OF HIGHWAY BRIDGES AND CULVERTS IN SOUTH AFRICA WHERE APPLICABLE.
 - LEVEL OF PRESTRESS:**
COMBINATION 1 WITH 50% NA TRAFFIC LOAD CLASS 1
COMBINATION 2 WITH FULL NA TRAFFIC LOAD CLASS 2
 - CONCRETE CLASSES**
CONCRETE SCREED 30 / 19
MASS CONCRETE 30 / 28
FOUNDATIONS, PLINTHS & APPROACH SLABS W40 / 19
PIER & PIER HEADS W30 / 19
ABUTMENTS & EARWINGS W30 / 19
DECK SLABS & END DIAPHRAGMS W40 / 13
PARAPETS & END BLOCKS W30 / 19
 - CONCRETE COVER**
SPREAD FOOTINGS 60mm
ABUTMENTS, EARWINGS & APPROACH SLABS 50mm
PIER & PIER HEADS 50mm
DECK SLABS AND DIAPHRAGMS 40mm
CONCRETE PARAPET AND END BLOCKS 40mm
 - REINFORCEMENT TO SANS 920 (2011) & SANS 1024 (2012) YIELD STRESS**
a) HOT-ROLLED MILD STEEL PLAIN ROUND (R-BARS) 250 MPa
b) HOT-ROLLED DEFORMED HIGH YIELD STRESS STEEL (Y-BARS) 450 MPa
c) HIGH TENSILE INDENTED WELDED MESH STEEL FABRIC 460 MPa
 - PRESTRESSING NOTES:**
15,7mm DIA 7-HI LOW RELAXATION STRAND TO BS 5896
CHARACTERISTIC BREAKING LOAD OF STRAND 265 kN
E-MODULUS 196 GPa
100% RELAXATION AT 70% OF BREAKING LOAD 2.5% (45 MPa)

ISSUED FOR APPROVAL

No	Date	Details	HB	CS
P0 31/08/17		ISSUED FOR EMPLOYER APPROVAL		



Approved By: _____ Date: _____

Approved By: C. SEPTEMBER

Drawn By: H. BENJAMIN | Designed By: P. DE KLERK | Reviewed By: P. LOUBSER

Project: **IRT PHASE 2A TRUNK & FEEDER INFRASTRUCTURE (EAST)**

Description: **WORK PACKAGE: E01 DUINEFONTEIN ELEVATED BRIDGE CROSSING - LAYOUTS, SECTIONS & DETAILS**

Scale: AS SHOWN @ A0 | Date: AUG 2017

C:\Users\m\OneDrive\Documents\Projects\IRT Phase 2A\Drawings\E01-8007.dwg