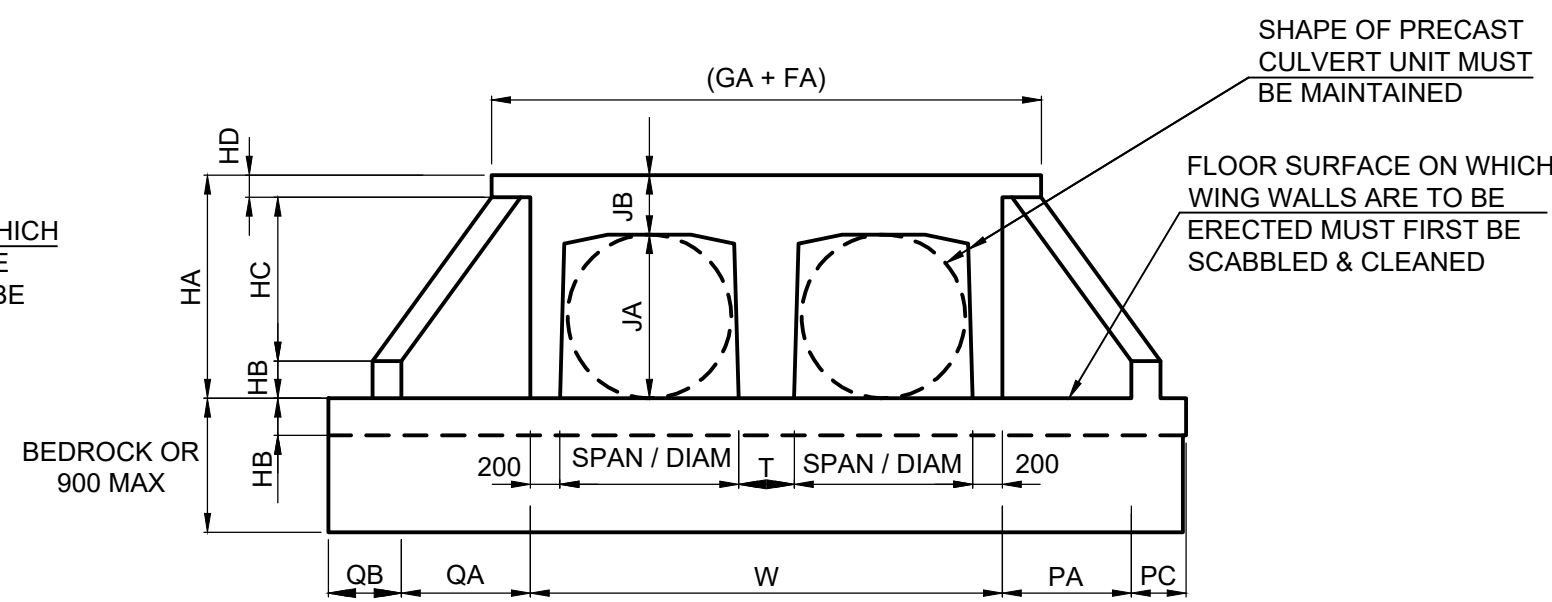
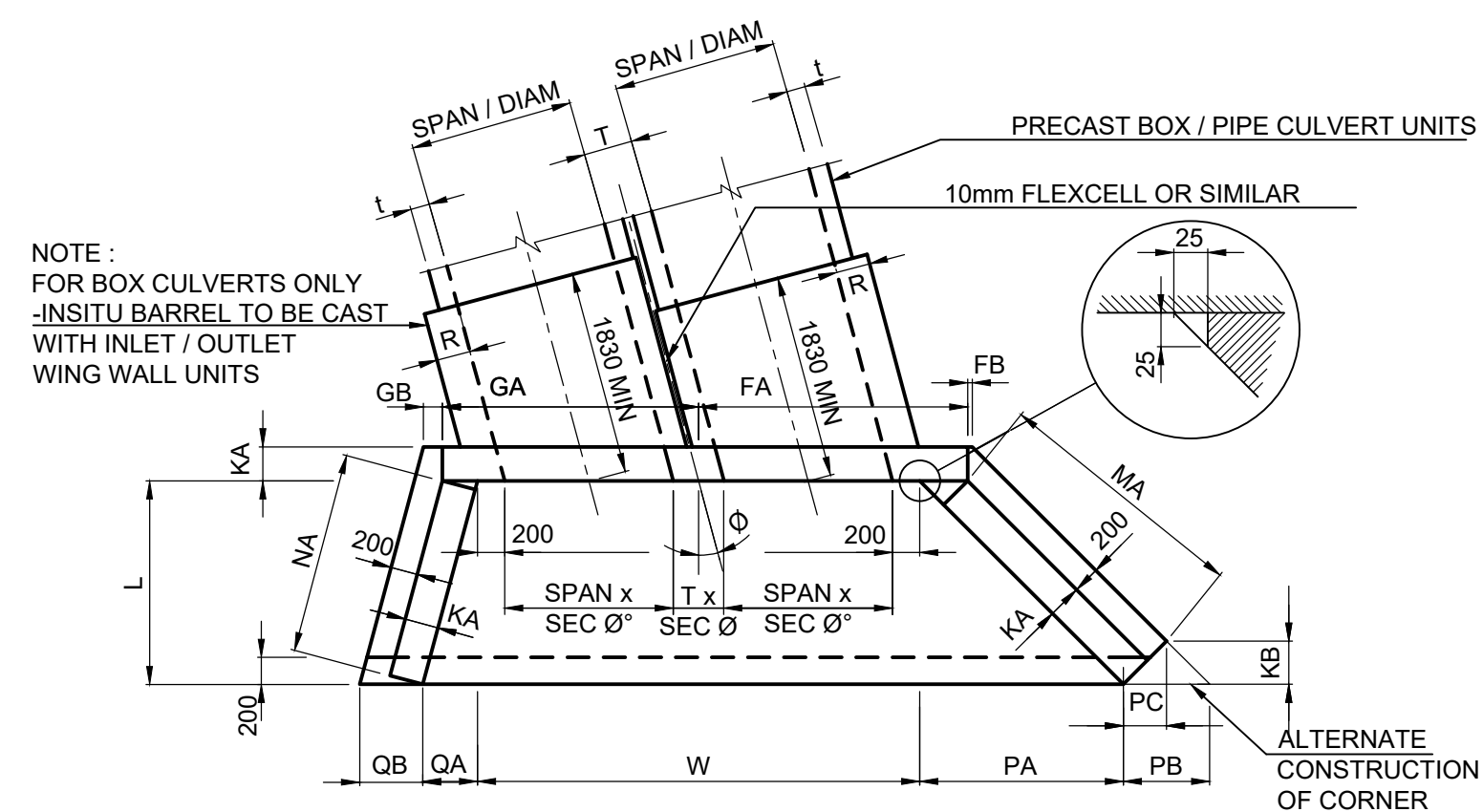


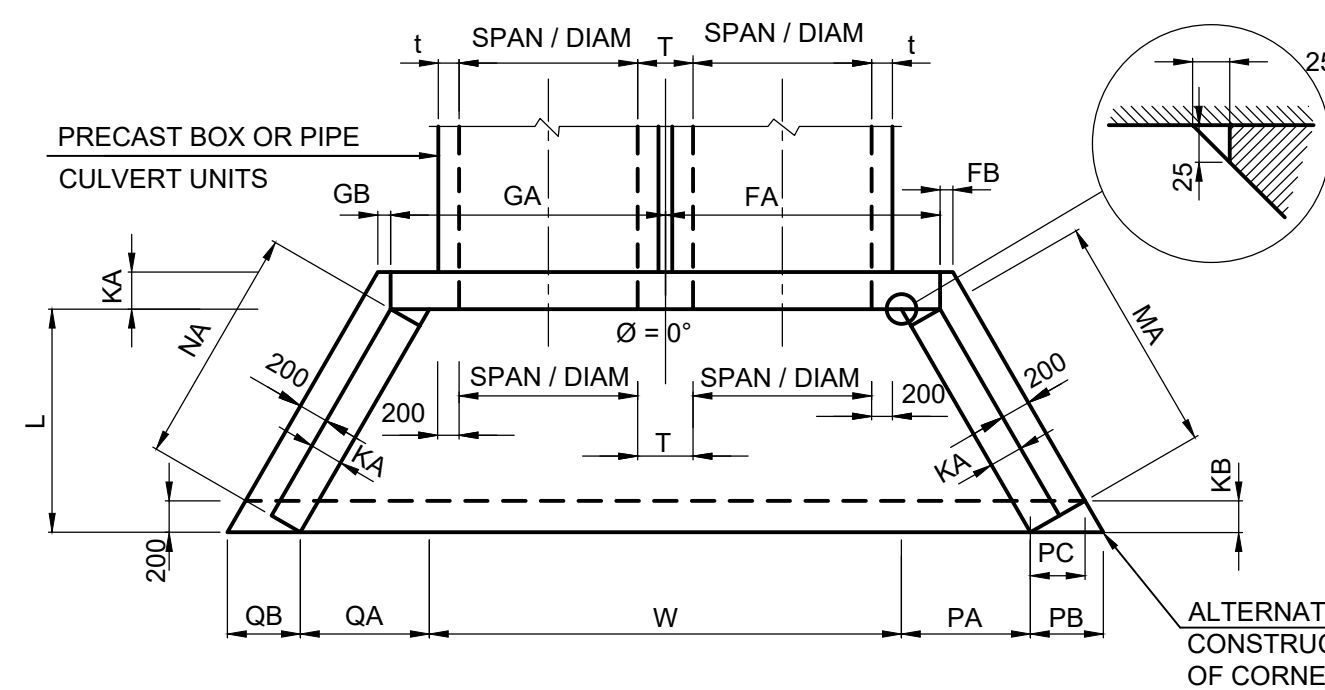
TYPICAL ELEVATION OF INLET / OUTLET
WING WALLS - MAX Ø = 30°
N.T.S.



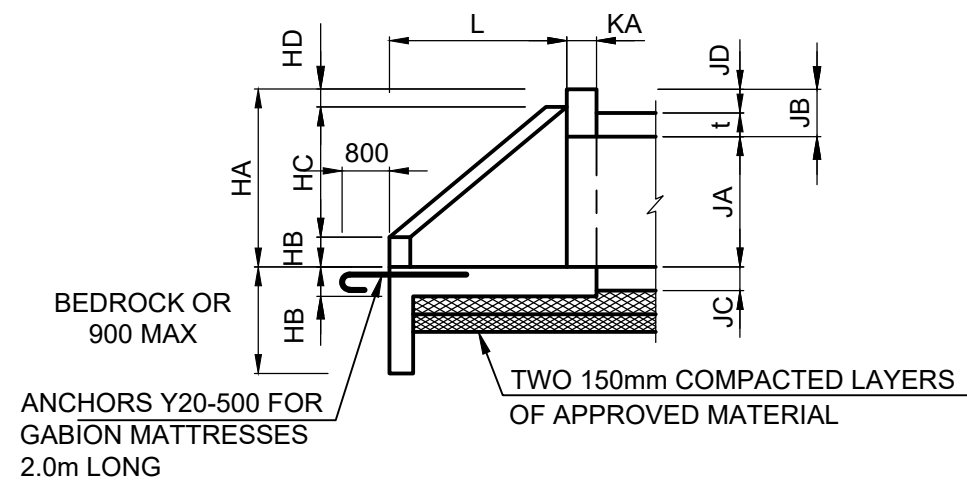
TYPICAL ELEVATION OF INLET / OUTLET
WING WALLS - Ø = 0° (SQUARE)
N.T.S.



TYPICAL PLAN OF INLET / OUTLET
WING WALLS - MAX Ø = 30°
N.T.S.



TYPICAL PLAN OF INLET / OUTLET
WING WALLS - Ø = 0° (SQUARE)
N.T.S.



TYPICAL END-ELEVATION OF
INLET / OUTLET WING WALLS - MAX Ø =
30°
N.T.S.

DATA SHEET AND FORMULAE

VERTICAL HEIGHT OF CULVERT	HB	HD	KA	JB
JA < 900	150	150	225	300
JA > 900	250	150	250	400
INSITU FLOOR SLAB (JC) AND PRECAST UNIT DECK THICKNESS (t)				
	JC	t		
900mm SPAN	150mm	110mm		
1200mm SPAN	160mm	125mm		
1500mm SPAN	175mm	145mm		
1800mm SPAN	190mm	150mm		
2100mm SPAN	220mm	155mm		
2400mm SPAN	260mm	170mm		

All dimensions in mm

FORMULAE

$$L = HC \times S \quad (\text{min. 1500mm}) \quad S = \text{BATTER SLOPE}$$

$$QA = L \times \tan(\theta - 30) \quad \theta = \text{CULVERT SKEW ANGLE}$$

$$PA = L \times \tan(\theta + 30) \quad t = \text{PRECAST WALL THICKNESS}$$

$$NA = L \times \sec(\theta - 30) - KA \times \tan(\theta - 30)$$

$$MA = L \times \sec(\theta + 30) - KA \times \tan(\theta + 30)$$

$$T = t \times 2 + 80$$

$$QB = (KA + 200) \times \sec(\theta - 30)$$

$$PB = (KA + 200) \times \sec(\theta + 30)$$

$$KB = (KA + 200) \times \sin(\theta + 30)$$

$$PC = (KA + 200) \times \cos(\theta + 30)$$

$$GA = W/2 + KA \times \sec(\theta - 30)$$

$$GB = \{[200 \times \csc(\theta - 30)] - KA\} \times \tan(\theta - 30)$$

$$FA = W/2 + KA \times \sec(\theta + 30)$$

$$FB = \{[200 \times \csc(\theta + 30)] - KA\} \times \tan(\theta + 30)$$

$$R = t + 100 \quad (\text{INSITU BARREL SLAB THICKNESS})$$