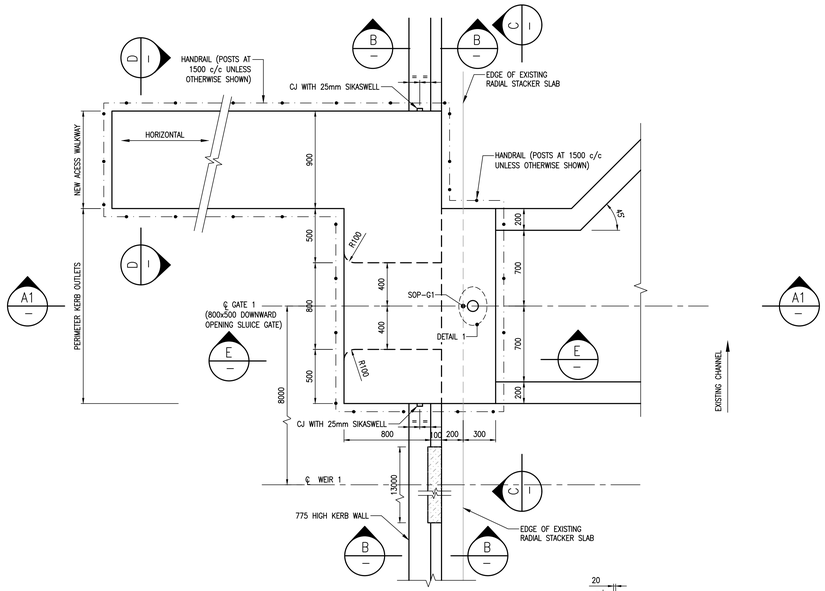
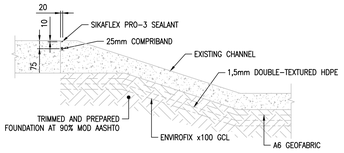


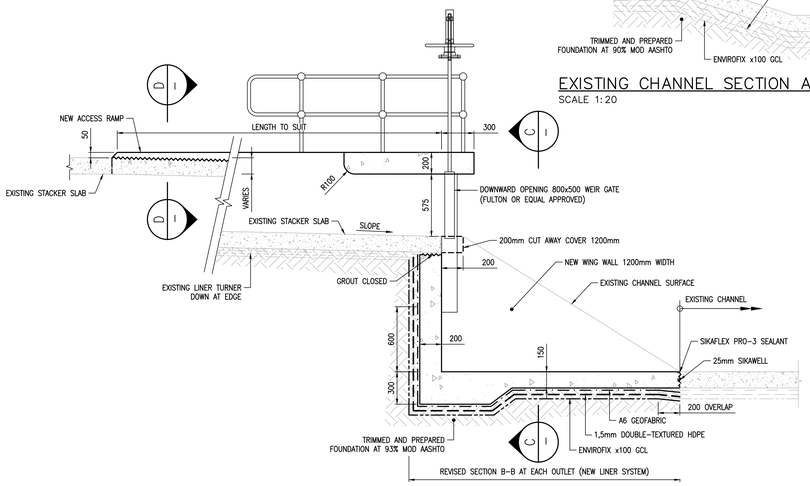
GATE G1 PLAN

SCALE 1:20



EXISTING CHANNEL SECTION AT GATE 1

SCALE 1:20

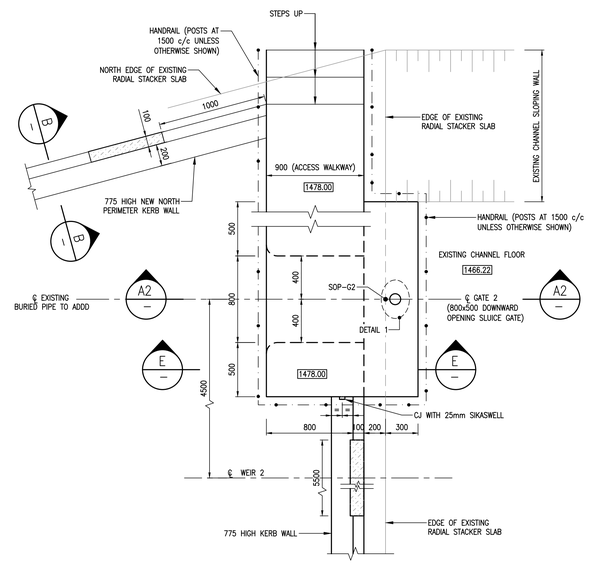


GATE G1

(SEE LOCATION ONN DWG. 30300098/06-592)

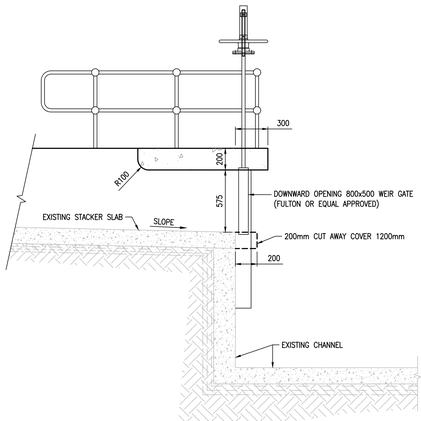
SECTION A

SCALE 1:20



GATE G2 PLAN

SCALE 1:20

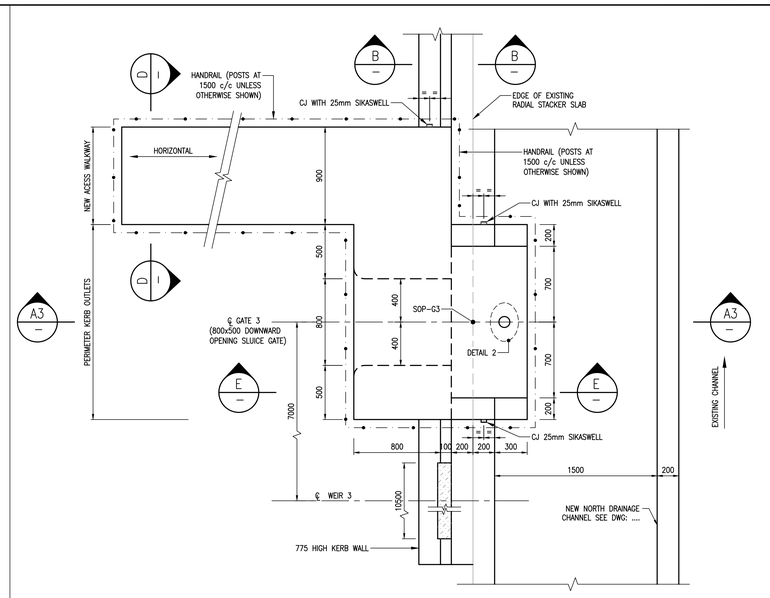


SECTION A2

SCALE 1:20

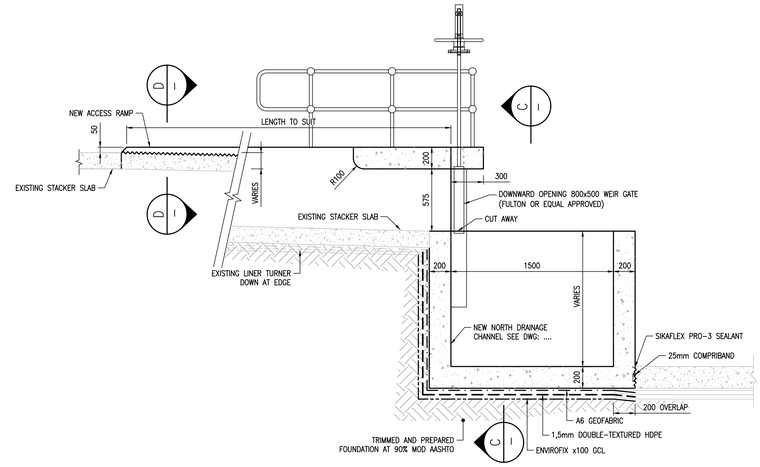
GATE G2

(SEE LOCATION ONN DWG. 30300098/06-592)



GATE G3 PLAN

SCALE 1:20

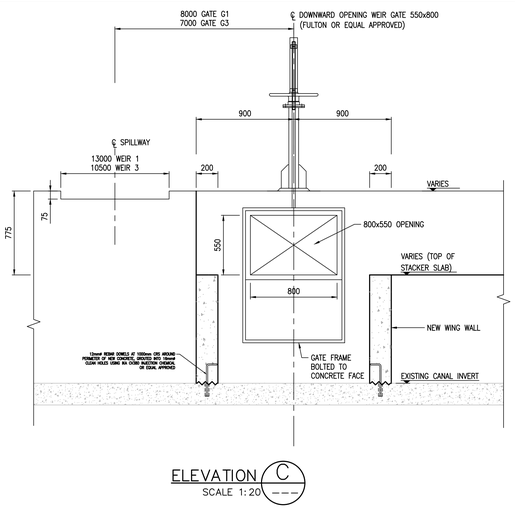


SECTION A3

SCALE 1:20

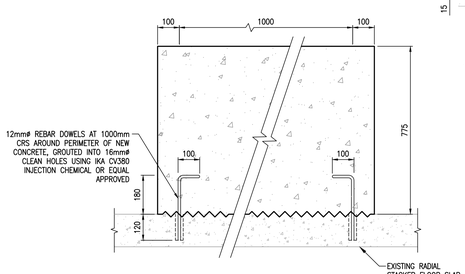
GATE G3

(SEE LOCATION ONN DWG. 30300098/06-592)



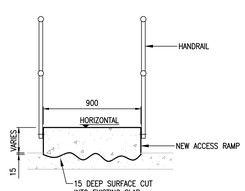
ELEVATION C

SCALE 1:20



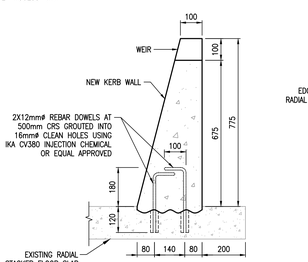
TYPICAL SECTION E

SCALE 1:10



SECTION D

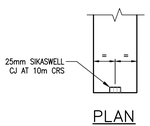
SCALE 1:20



KERB WALL ANCHOR DETAIL B

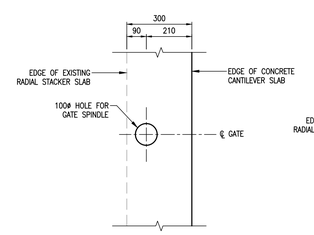
SCALE 1:10

(900 SETS OF 2 ANCHOR BARS FOR 450mm OF KERB WALL)



PLAN

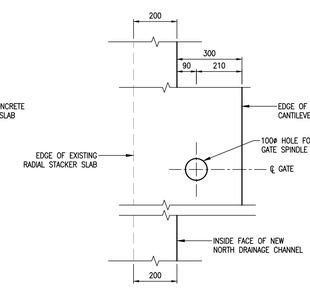
SCALE 1:10



TYPICAL DETAIL 1

SCALE 1:10

(AT GATE 1 AND GATE 2)



TYPICAL DETAIL 2

SCALE 1:10

(AT GATE 3)

GENERAL NOTES:

1. BACKFILL SOILS AROUND STRUCTURES SHALL BE OF G7 QUALITY OR BETTER (Mn CBR = 15%, COMPACTION 93% MOD AASHTO IN 200 MM LAYERS).
2. FOUNDATION PREPARATION: FOUNDATION SOILS TO BE PREPARED TO ACHIEVE THE MINIMUM SPECIFIED FOUNDATION BEARING PRESSURE.
3. MINIMUM REQUIRED BEARING PRESSURE = 120 kPa TO BE CONFIRMED BEFORE CASTING.

NOTES:

1. CONCRETE TO BE TO ESKOM SPEC 203-770 Rev 4/SANS 1200
2. STRUCTURAL CONCRETE TO BE GRADE 35/19
3. MASS CONCRETE (BLINDING, MASS FILL) TO BE GRADE 15/19 SPEC 45-17/19
4. HAND-RAILING AND CAT LADDERS TO BE IN ACCORDANCE WITH ESKOM DRAWING No: 0.00/2901 Rev 9
5. GALVANIZING TO BE PER SANS 121:2000
6. GENERAL CORROSION PROTECTION TO BE PER MEDUPI CORROSION PROTECTION SPECIFICATION SSZ_17 Rev 2
7. SEE DRAWING 303-00098/06-566 FOR (WEST TANK) SETTING OUT POINTS AND DRAWING 303-00098/06-571 FOR (EAST TANK) SETTING OUT POINTS
8. SLUICE GATE BOLTS INSTALLATION AS PER FULTON SPECIFICATION.
9. ALL EXCAVATIONS ARE TO BE INSPECTED AND APPROVED IN WRITING BY THE GEOTECHNICAL ENGINEER BEFORE THE BLINDING OR FOUNDATION IS BEING CAST.
10. A 25mm x 25mm CHAMFER SHALL BE PROVIDED ON ALL VISIBLE CORNERS OF CONCRETE.
11. ALL MIX DESIGNS TO BE APPROVED BY THE ENGINEER IN WRITING BEFORE ANY CONCRETE CAST.

REV	DATE	EXTRA NOTES ADDED	MKM	EN	JRW
1	04/03/19				
0	14/12/18	ISSUED FOR CONSTRUCTION	MKM	EN	JRW
B	23/11/18	ISSUED FOR APPROVAL	MKM	EN	JRW

D.O. REV DATE — ** REVISION ** — REV BY | CHKD BY | AUTH BY | KKS APP

INDEX REFERENCE

	SIGNATURE FOR ESKOM RTL	DATE
DRG REGISTR		
DESIGN APPROVED		16/12/18
KKS APP		
DO AUTH		
CHKD BY		
DRAWN BY		
SCALE		

DESIGN ENGINEER M.K.Mkhonto Pr.Eng.704323

PANEL B CONSULTANTS JOINT VENTURE — Knight Piésold CONSULTING

REFERENCE DRAWINGS

KUSILE POWER STATION

2018 RADIAL STACKER UPGRADE

RADIAL STACKER SLAB SLUICE GATES

PLAN AND TYPICAL SECTIONS

DRG. No. K30300098/06-592 — REV 1

366-238333 — SHEET A0 — REV 1