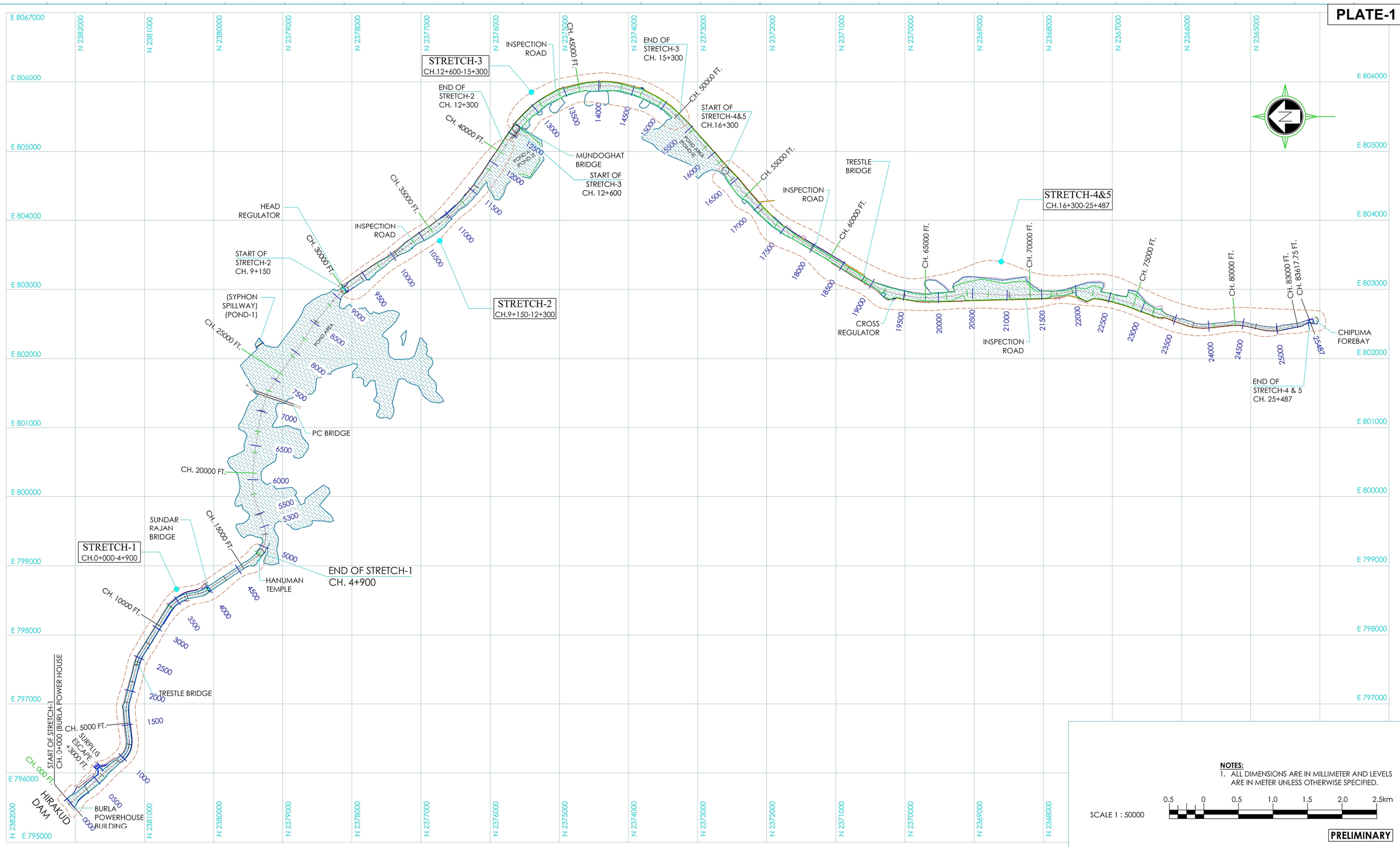
GENERAL DRAWINGS

REPAIR AND REHABILITATION OF POWER CHANNEL

PLATE-1



NOTES:

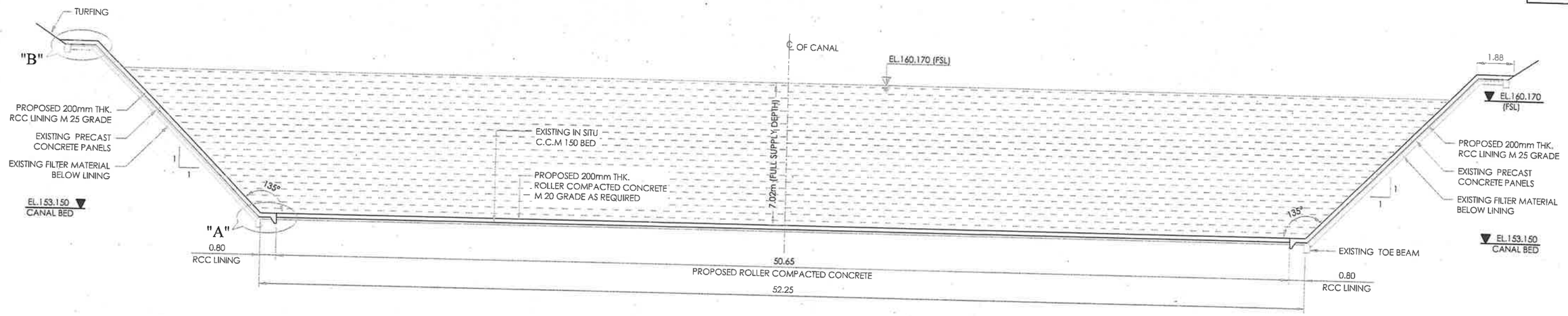
1. ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METER UNLESS OTHERWISE SPECIFIED.

SCALE 1 : 50000

0.5 0 0.5 1.0 1.5 2.0 2.5km

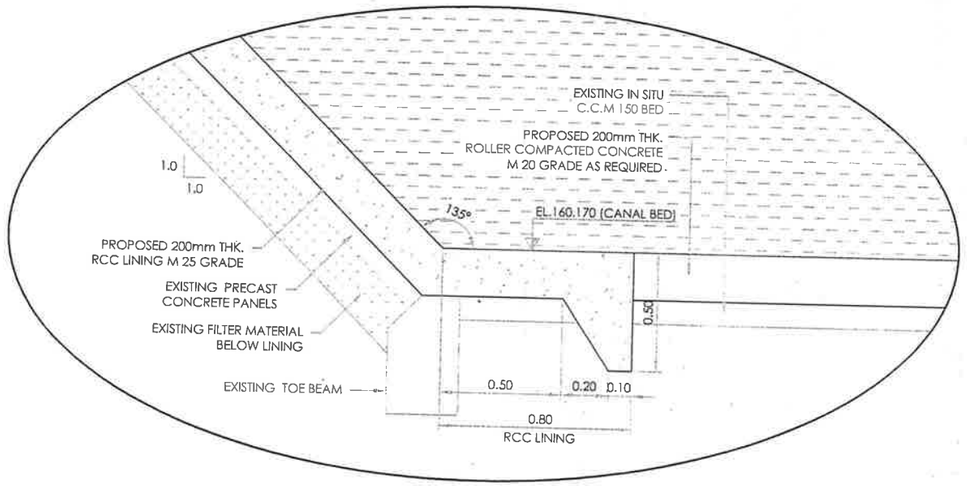
PRELIMINARY

PLATE-61



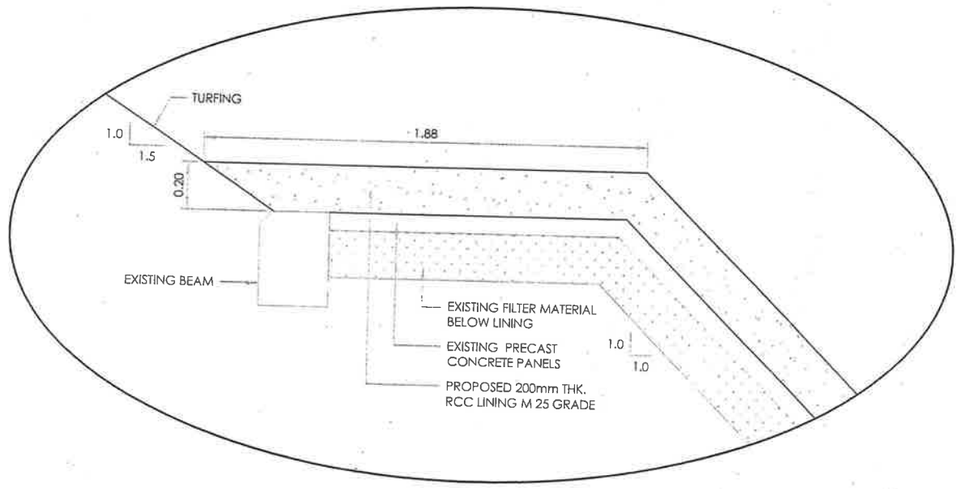
TYPICAL CROSS-SECTIONS DETAIL STRETCH-I

SCALE 1:200



DETAIL-"A"

SCALE 1:25



DETAIL-"B"

SCALE 1:25

NOTES:

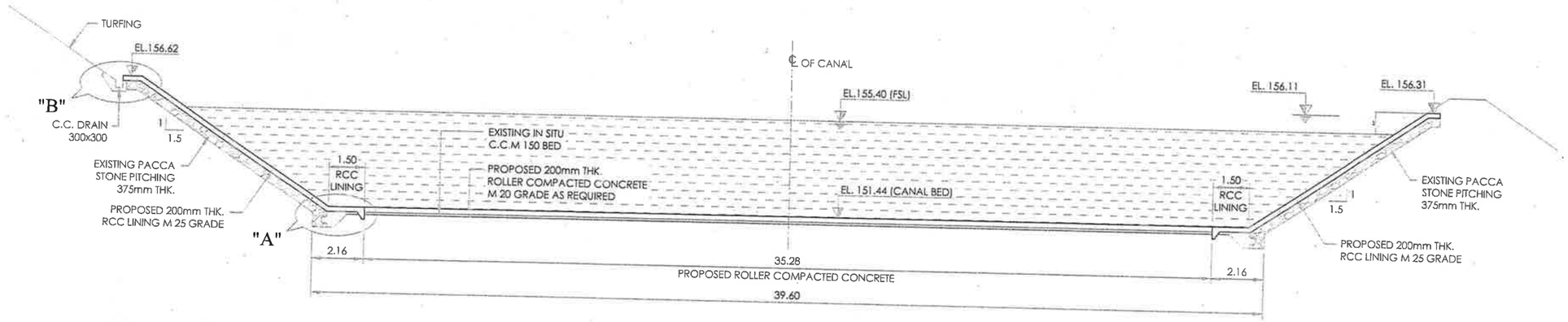
1. ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METER UNLESS OTHERWISE SPECIFIED.
2. EXISTING DAMAGES IN THE CONCRETE PANELS SHALL BE REPAIRED USING LOCAL M15 GARDE CONCRETE PRIOR TO LAYING OF 200 MM THICK RCC LINING.
3. THE EXISTING PANELS SHALL BE CLEANED AND ROUGHENED PRIOR TO LAYING OF RCC CONCRETE TO DEVELOP SUITABLE BOND BETWEEN OLD CONCRETE AND NEW CONCRETE.
4. PRIOR TO LAYING OF ROLLER COMPACTED CONCRETE IN THE BED, THE ENTIRE SURFACE SHALL BE MADE FREE FROM DIRT AND LOOSE MATERIAL.
5. CONSTRUCTION JOINTS IN THE RCC LINING SHALL BE PROVIDED AT AN INTERVAL OF 100 M. PVC WATER STOP 230 MM WIDE SHALL BE PROVIDED AT THE CONSTRUCTION JOINTS

SCALE 1 : 250

SCALE 1 : 25

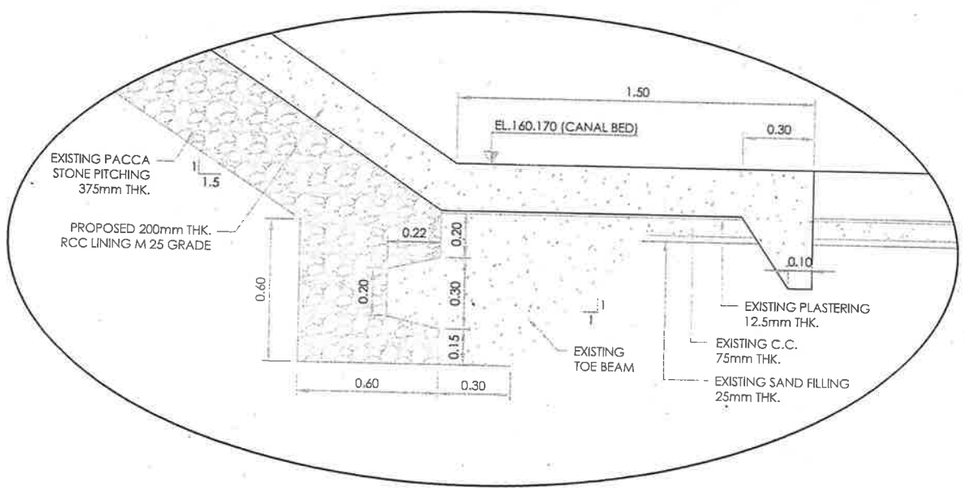
PRELIMINARY

PLATE-63



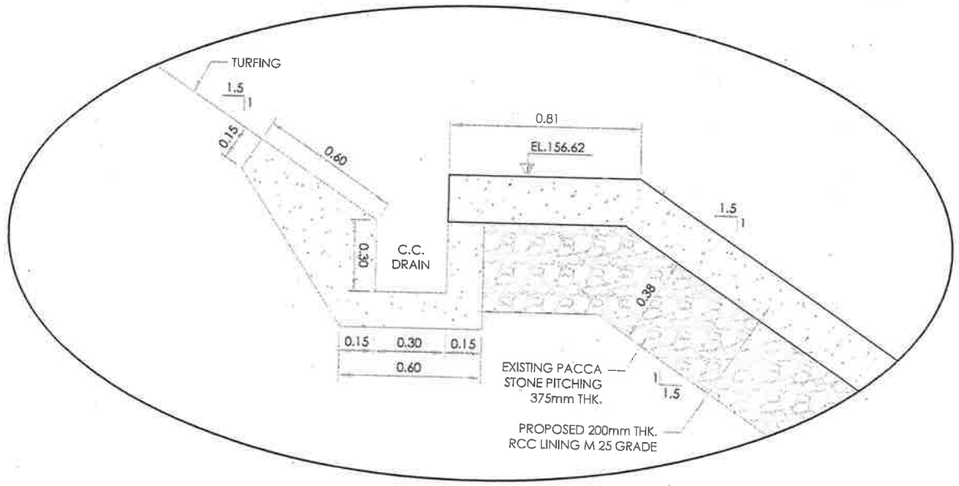
TYPICAL CROSS-SECTIONS DETAIL STRETCH-V

SCALE 1:200



DETAIL-"A"

SCALE 1:25



DETAIL-"B"

SCALE 1:25

NOTES:

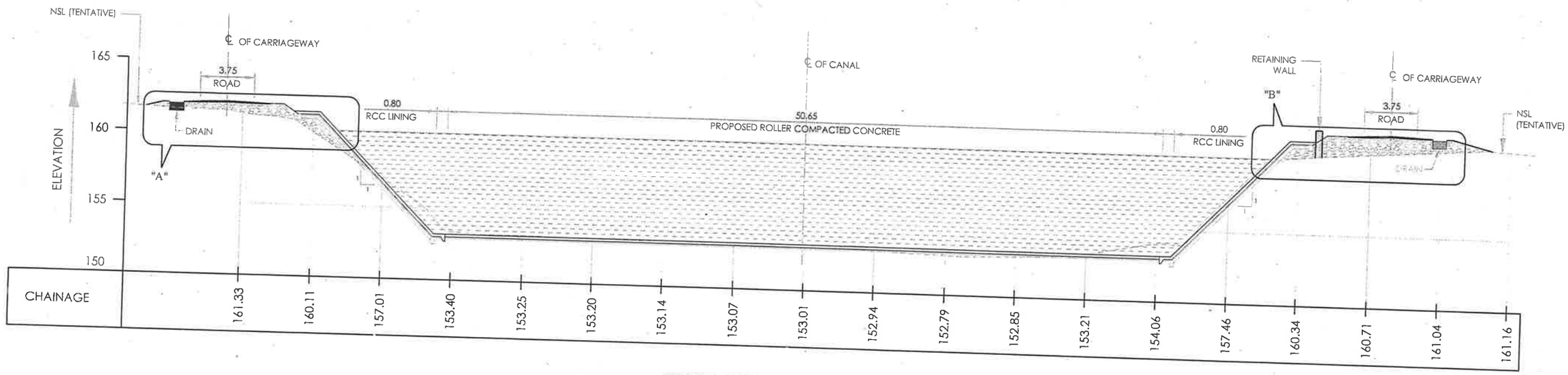
1. ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METER UNLESS OTHERWISE SPECIFIED.
2. EXISTING DAMAGES IN THE CONCRETE PANELS SHALL BE REPAIRED USING LOCAL M15 GARDE CONCRETE PRIOR TO LAYING OF 200 MM THICK RCC LINING.
3. THE EXISTING PANELS SHALL BE CLEANED AND ROUGHENED PRIOR TO LAYING OF RCC CONCRETE TO DEVELOP SUITABLE BOND BETWEEN OLD CONCRETE AND NEW CONCRETE.
4. PRIOR TO LAYING OF ROLLER COMPACTED CONCRETE IN THE BED, THE ENTIRE SURFACE SHALL BE MADE FREE FROM DIRT AND LOOSE MATERIAL.
5. CONSTRUCTION JOINTS IN THE RCC LINING SHALL BE PROVIDED AT AN INTERVAL OF 100 M. PVC WATER STOP 230 MM WIDE SHALL BE PROVIDED AT THE CONSTRUCTION JOINTS

SCALE 1 : 250 — 2.5 0 2.5 5.0 7.5 10.0 12.5m

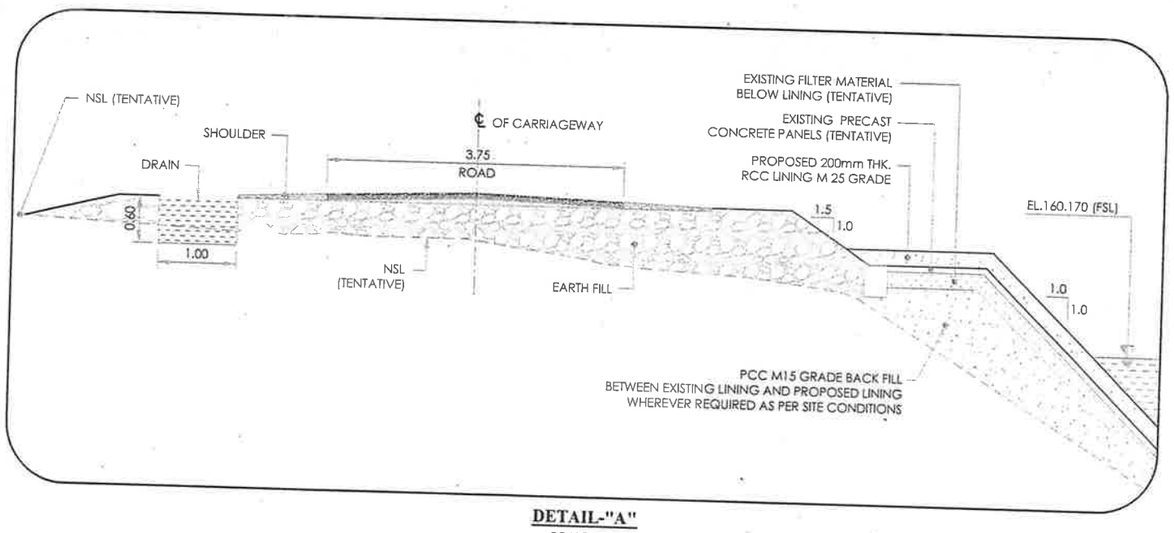
SCALE 1 : 25 — 2.5 0 2.5 5.0 7.5 10.0 12.5Cm

PRELIMINARY

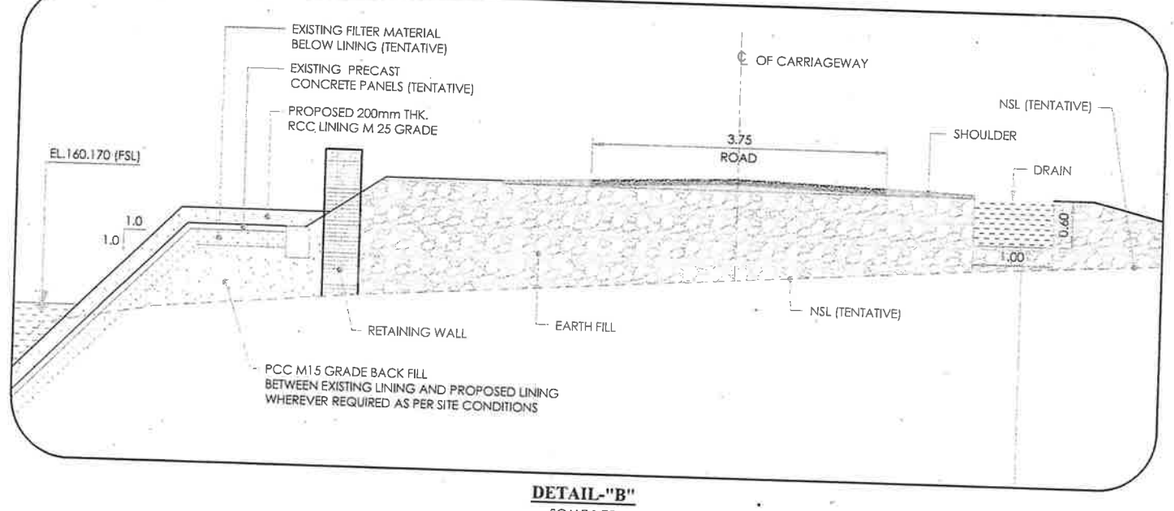
PLATE-65



TYPICAL CROSS-SECTIONS DETAIL STRETCH
(CHAINAGE 2500.000)
SCALE 1:300



DETAIL-"A"
SCALE 1:75



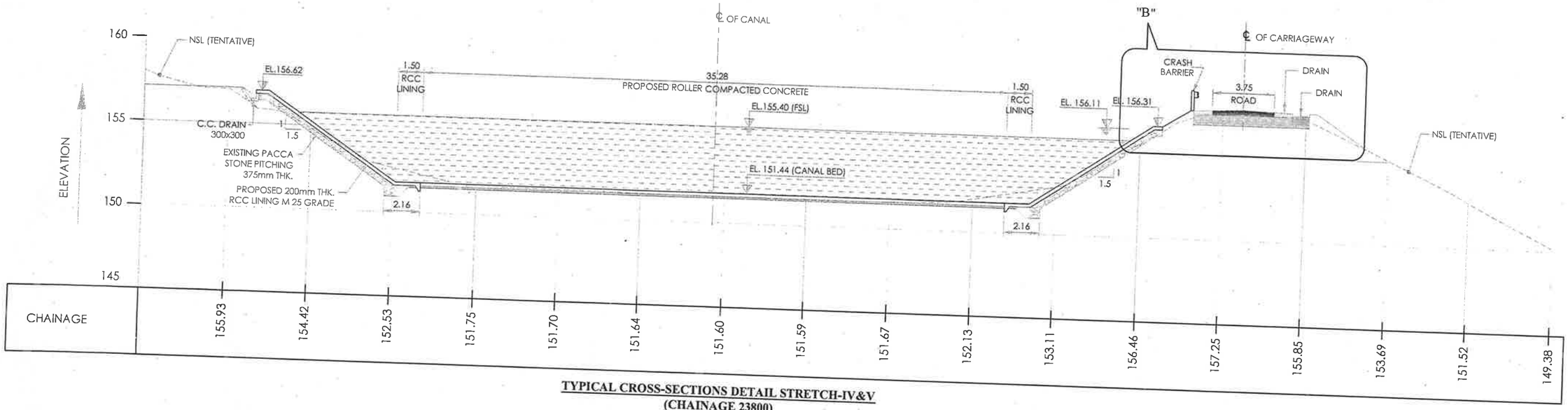
DETAIL-"B"
SCALE 1:75

NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METER UNLESS OTHERWISE SPECIFIED.
2. EXISTING DAMAGES IN THE CONCRETE PANELS SHALL BE REPAIRED USING LOCAL M15 GARDE CONCRETE PRIOR TO LAYING OF 200 MM THICK RCC LINING.
3. THE EXISTING PANELS SHALL BE CLEANED AND ROUGHENED PRIOR TO LAYING OF RCC CONCRETE TO DEVELOP SUITABLE BOND BETWEEN OLD CONCRETE AND NEW CONCRETE.
4. PRIOR TO LAYING OF ROLLER COMPACTED CONCRETE IN THE BED, THE ENTIRE SURFACE SHALL BE MADE FREE FROM DIRT AND LOOSE MATERIAL.
5. CONSTRUCTION JOINTS IN THE RCC LINING SHALL BE PROVIDED AT AN INTERVAL OF 100 M. PVC WATER STOP 230 MM WIDE SHALL BE PROVIDED AT THE CONSTRUCTION JOINTS

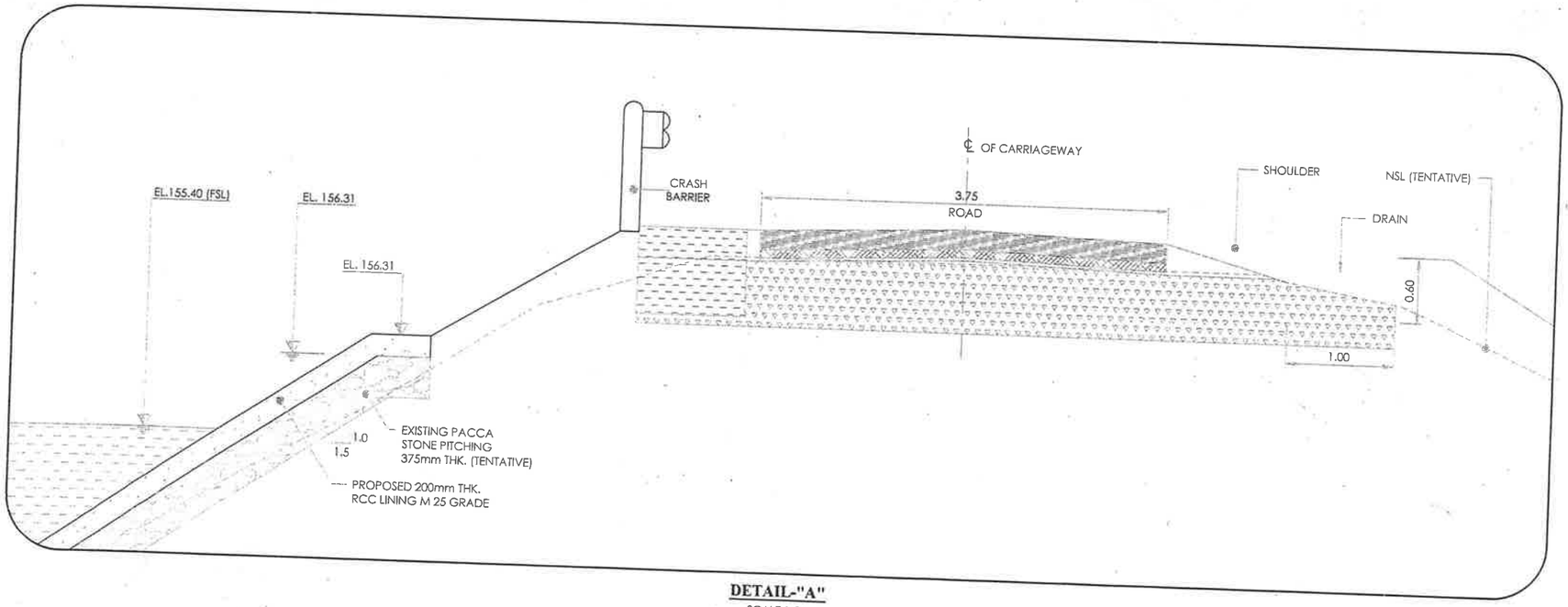
SCALE 1 : 300

3 0 3 6 9 12 15m

PRELIMINARY



TYPICAL CROSS-SECTIONS DETAIL STRETCH-IV&V
(CHAINAGE 23800)
SCALE 1:250



DETAIL-"A"
SCALE 1:50

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METER UNLESS OTHERWISE SPECIFIED.
2. EXISTING DAMAGES IN THE SLOPES SHALL BE REPAIRED USING LOCAL M15 GARDE CONCRETE PRIOR TO LAYING OF 200 MM THICK RCC LINING.
3. THE EXISTING SLOPE SURFACE SHALL BE CLEANED AND ROUGHENED PRIOR TO LAYING OF RCC CONCRETE TO DEVELOP SUITABLE BOND BETWEEN OLD STONE PITCHING LINING AND NEW CONCRETE LINING.
4. PRIOR TO LAYING OF ROLLER COMPACTED CONCRETE IN THE BED, THE ENTIRE SURFACE SHALL BE MADE FREE FROM DIRT AND LOOSE MATERIAL.
5. CONSTRUCTION JOINTS IN THE RCC LINING SHALL BE PROVIDED AT AN INTERVAL OF 100 M. PVC WATER STOP 230 MM WIDE SHALL BE PROVIDED AT THE CONSTRUCTION JOINTS

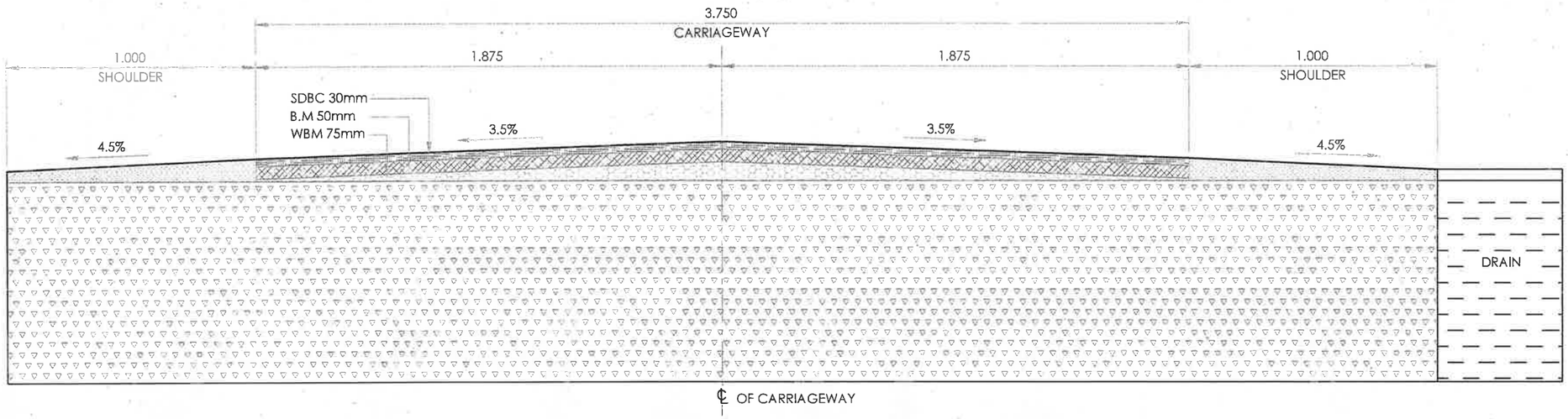
SCALE 1 : 300

3 0 3 6 9 12 15m

PRELIMINARY

INSPECTION ROAD

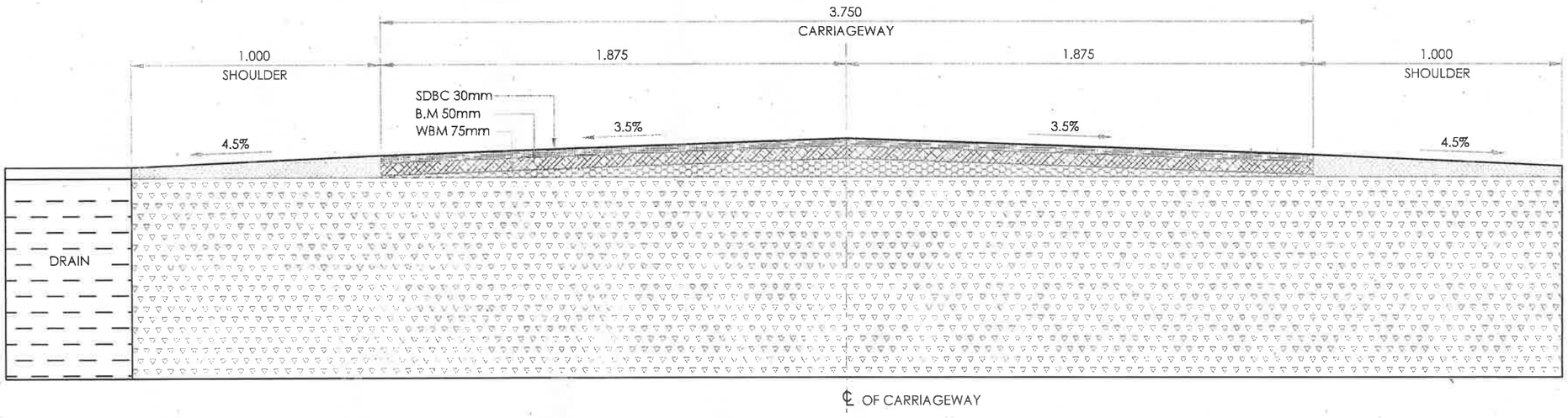
REPAIR AND REHABILITATION OF POWER CHANNEL



TYPICAL CROSS-SECTION OF ROAD FIRST STRETCH (LEFT BANK)

CH. 0+630-3+367m (2070-11047 FT.)

SCALE 1:20



TYPICAL CROSS-SECTION OF ROAD FIRST STRETCH (RIGHT BANK)

CH. 0+951-3+680m (3120-13451 FT.)

SCALE 1:20

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METER UNLESS OTHERWISE SPECIFIED.

SCALE 1 : 20

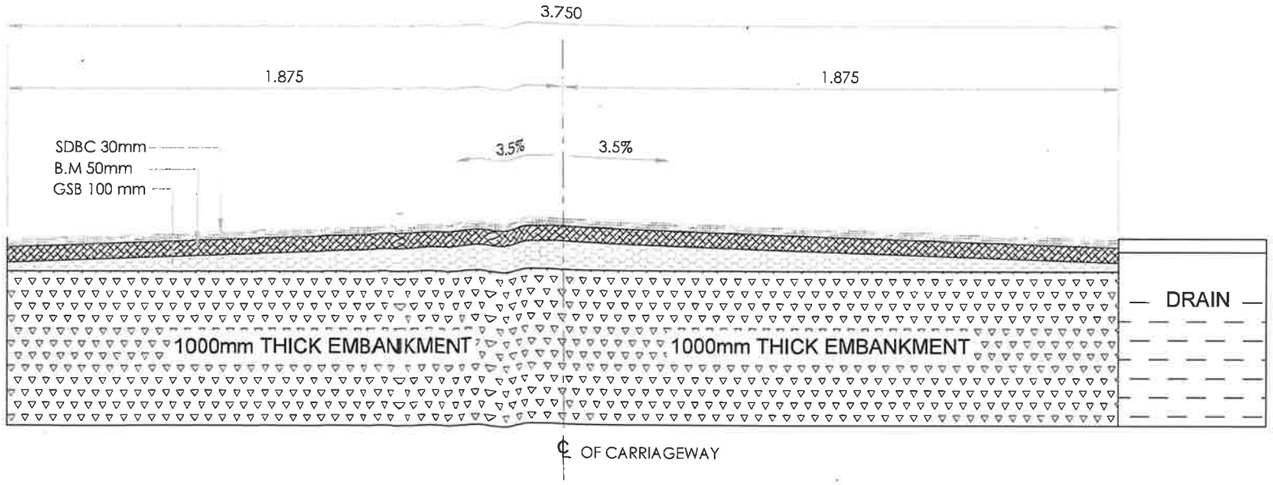
2.0 0 2.0 4.0 6.0 8.0 10.0Cm

DMP | CHPBMA | HBCC [OHPC]

CAD File Name :

ROAD TYPICAL CROSS-SECTION (25.05.2022)

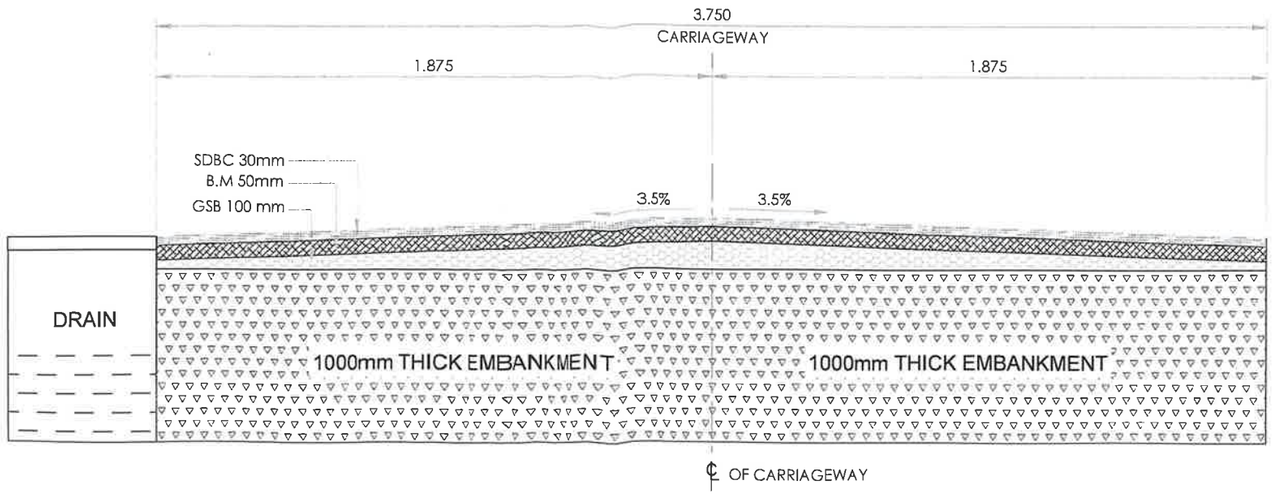
PLATE-76



TYPICAL CROSS-SECTION OF ROAD STRETCH-IV&V (LEFT BANK)

CH. 17+982 - 18+776m (59000-61600 FT.)

SCALE 1:20



TYPICAL CROSS-SECTION OF ROAD STRETCH-IV&V (RIGHT BANK)

CH. 18+776 - 25+440m (61600-83465 FT.)

SCALE 1:20

NOTES:

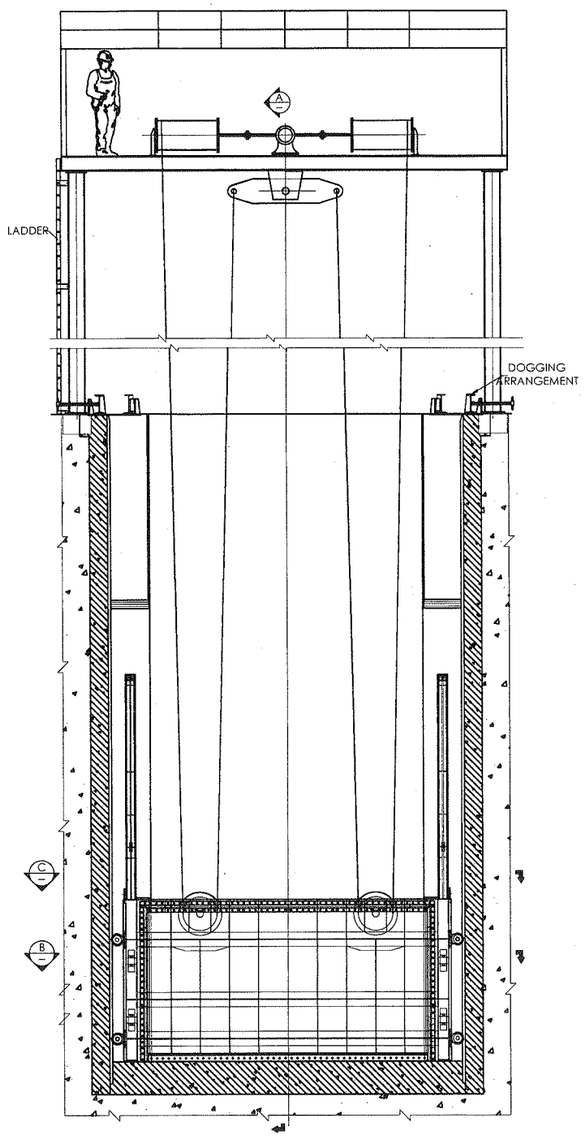
1. ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS ARE IN METER UNLESS OTHERWISE SPECIFIED.

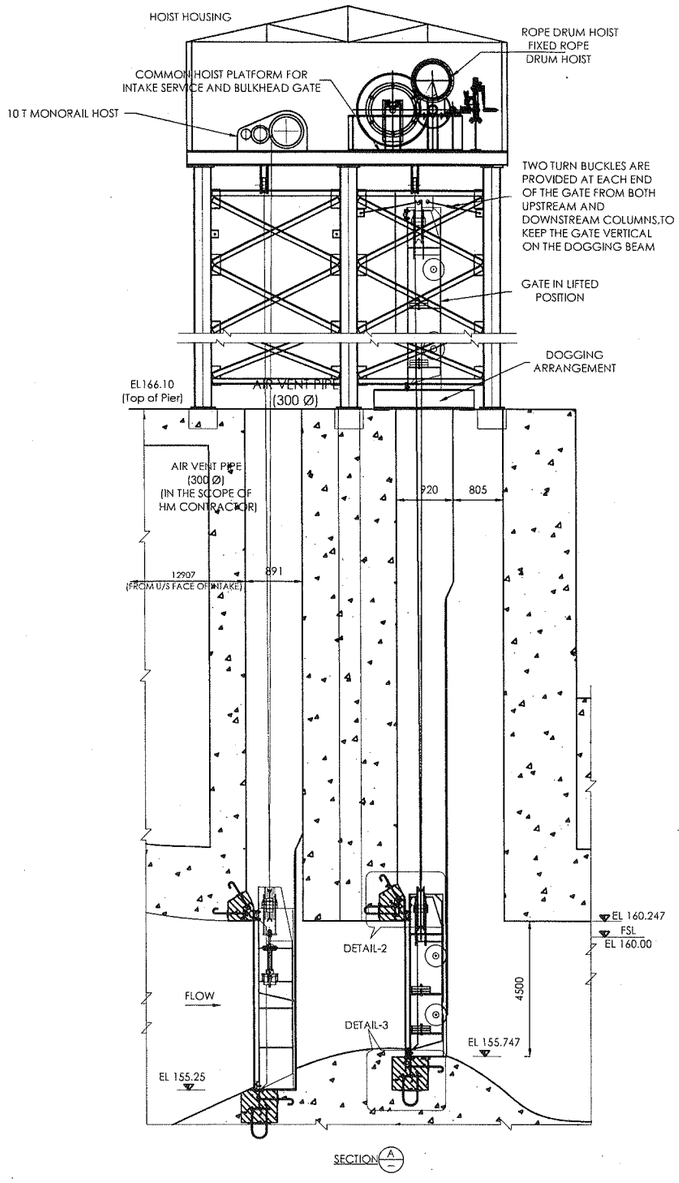
SCALE 1 : 20

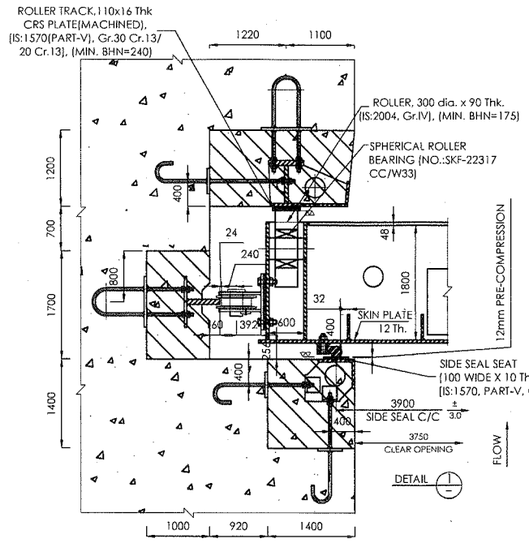
2.0 0 2.0 4.0 6.0 8.0 10.0Cm

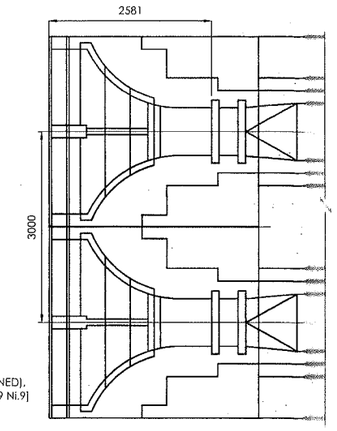
PRELIMINARY

HYDRO MECHANICAL
REPAIR AND REHABILITATION OF POWER CHANNEL

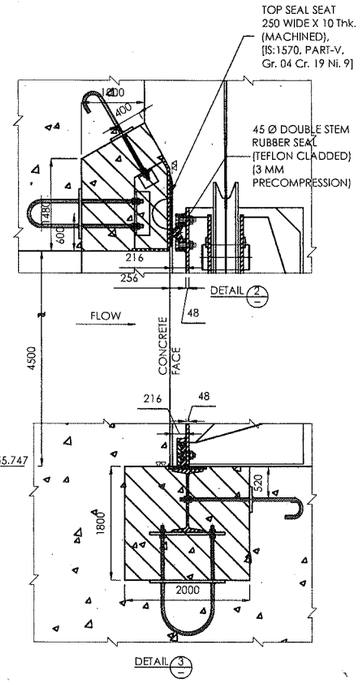


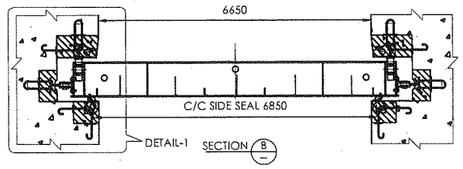


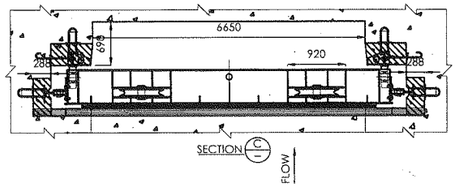




KEY PLAN







REFFRENCE DRAWING:-

1. H.K.D. (C) 82

NOTES:-

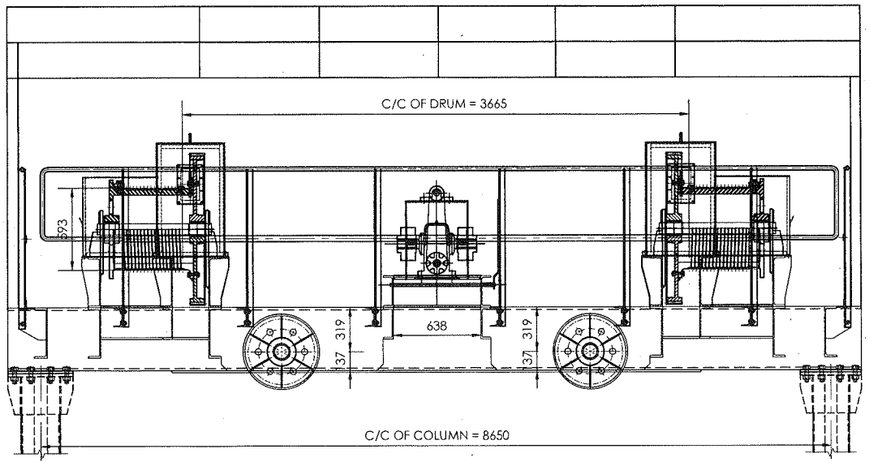
1. ALL DIMENSIONS ARE IN MM AND LEVELS IN METRES.
2. FOR DETAIL OF CIVIL STRUCTURES REFER RELEVANT CIVIL DRAWINGS.
3. 6 MM CONTINUOUS WELDING DEPTH EVERYWHERE UNLESS OTHERWISE STATED.
4. FACES OF TRACKS AND SEAL SEATS SHALL BE IN A TRUE VERTICAL PLANE WITH A TOLERANCE OF ± 0.5 MM IN ANY 3.0 M WITHOUT OFFSETS OR GAPS AT THE JOINTS.
5. GRADE OF 2ND STAGE CONCRETE IS M30 (MIN.).
6. THE 2ND STAGE CONCRETE BLOCKOUTS SHALL BE BONDED TO 1ST STAGE CONCRETE AND NECESSARY DOWELS AT SUITABLE INTERVALS BE LEFT FROM THE 1ST STAGE CONCRETE.
7. ALL SEALING ARRANGEMENTS (BOTTOM, SIDE AND TOP) SHALL BE WATER TIGHT.
8. ERECTION TOLERANCES FOR EMBEDDED PARTS AND GATES TO BE AS PER LATEST EDITION OF IS: 4622.
9. TRACK AND SEAL SEATS SHALL BE PROVIDED REQUIRED SURFACE FINISH.
10. VENT OPENING SIZE = 6.65M (WIDE) X 4.5M (HIGH).
11. TOTAL NO. OF GATES = 5
12. FOR DETAILS OF GATE AND ITS COMPONENTS SIZES REFER ANNEXURE
13. 1ST STAGE AND 2ND STAGE CONCRETE AS SHOWN BELOW.

FIRST STAGE CONCRETE

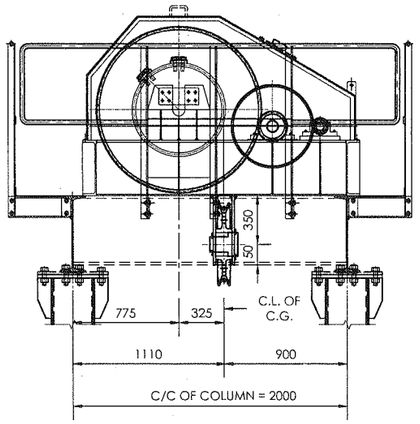
SECOND STAGE CONCRETE

SURPLUS ESCAPE & STOPLOG GATE-GA OF HOISTS-S1OF2

CAD File Name : SURPLUS ESCAPE & STOPLOG GATE-GA OF HOISTS-S1OF2.DWG



ELEVATION



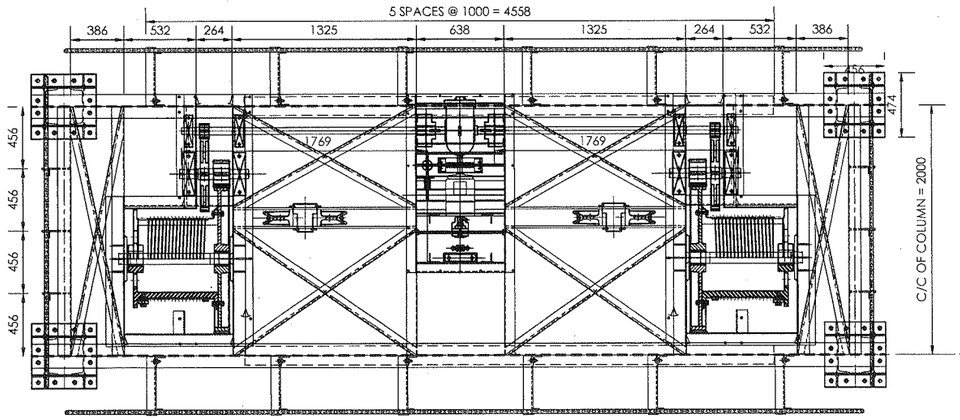
SIDE VIEW

LEGEND:-

- 1ST. STAGE CONCRETING
- 2ND STAGE CONCRETING (ONE GRADE HIGHER THAN 1st STAGE)

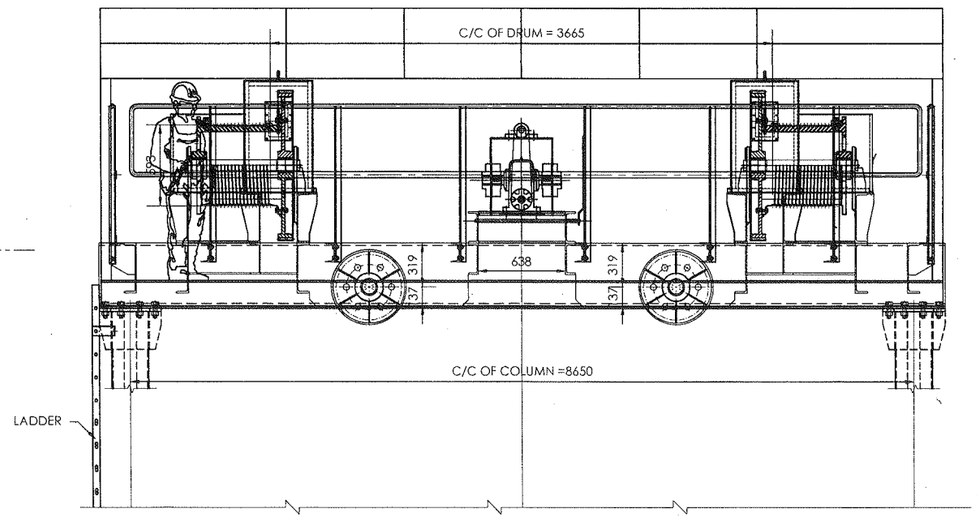
NOTES:-

1. ALL DIMENSIONS ARE IN mm. AND LEVELS ARE IN METERS.
2. NO. OF OPENINGS - 5 AND NO. OF RDH - 5
3. HOIST CAPACITY OF ROPE DRUM HOIST (RDH) - 17T
4. NO. OF STOPLOG GATE - 1 AND NO. OF MONORAIL HOIST- 1
5. HOIST CAPACITY OF MONORAIL - 10T
6. ONLY MARK DIMENSION CAN BE CONSIDERED..
7. DO NOT SCALE, PLEASE ASK IF ANY QUERY.
8. GIVEN DIMESTIONS ARE TENTATIVE
9. DETAILS OF COMPONENTS SHALL BE GIVEN IN DETAIL DESIGN

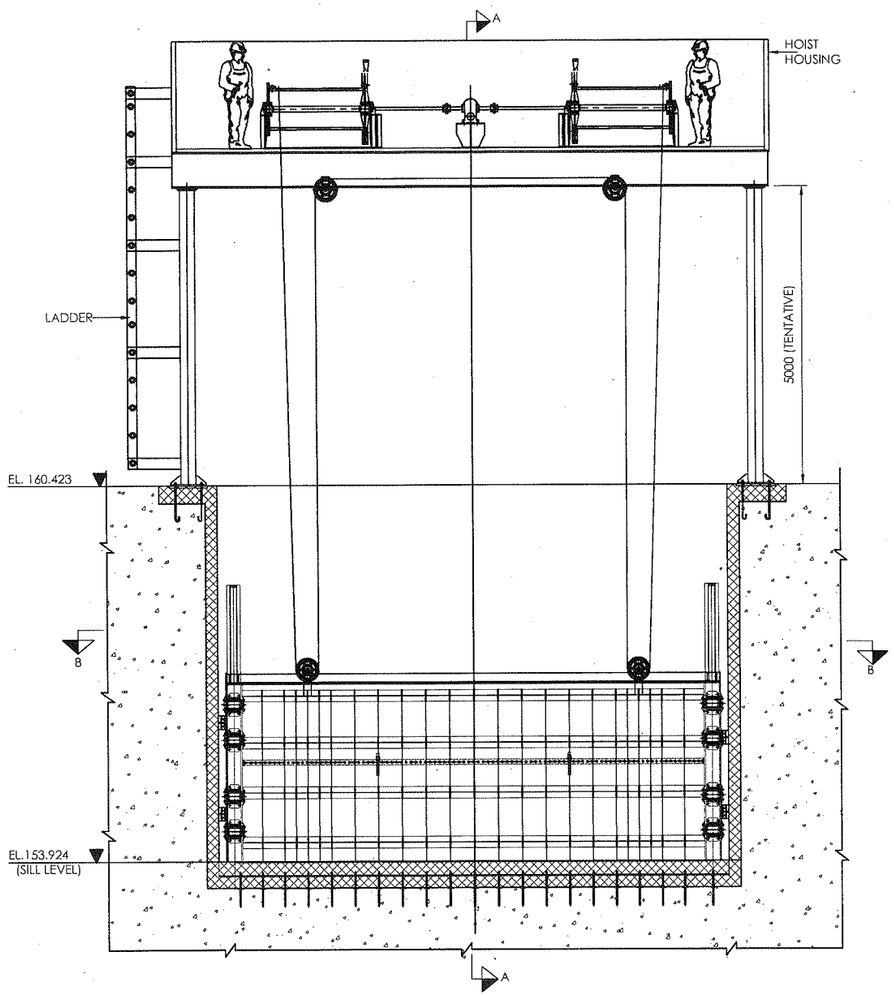


PLAN

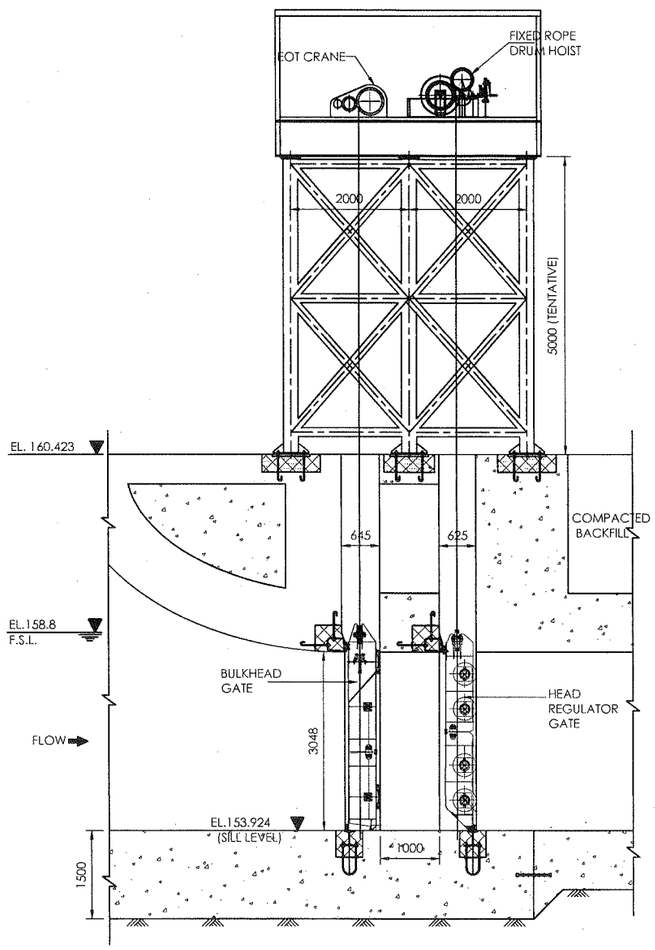
FLOW RIVER SIDE



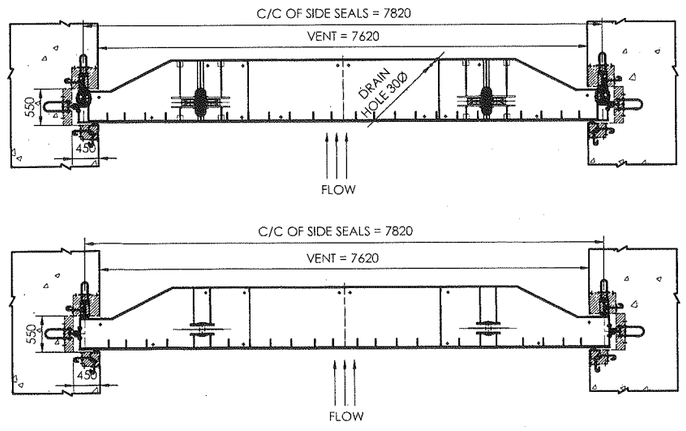
ELEVATION



ELEVATION



SECTION "A-A"



SECTION "B-B"

NOTES:-

1. ALL DIMENSIONS ARE IN mm. AND LEVELS ARE IN METERS.
2. NO. OF OPENINGS - 6 AND NO. OF GATES - 6
3. NO. OF BULKHEAD GATE - 1.
4. ONLY MARK DIMENSION CAN BE CONSIDERED..
5. DO NOT SCALE, PLEASE ASK IF ANY QUERY.

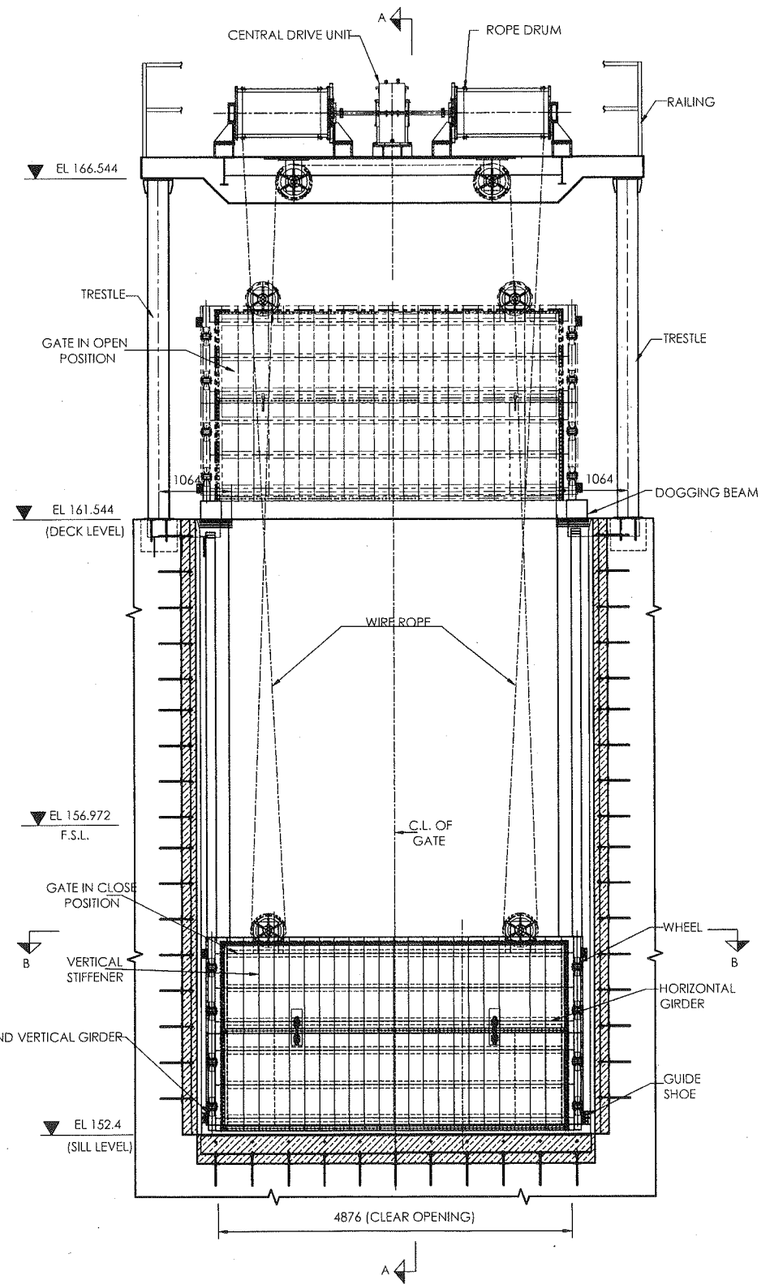
TECHNICAL DETAILS		
HEAD REGULATOR GATE		
1	No. OF OPENING	6 Nos.
2	OPERATION BY	18T ROPE DRUM HOIST
3	SIZE OF GATE	7.62 M(W) x 3.10 M(H)
4	OPERATING CONDITION	UNBALANCED HEAD
5	OPENING	7.62 M(W) x 3.048 M(H)
6	SILL LEVEL	EL. 153.924 M
7	FSL	EL. 158.80 M
8	TOP OF PIER	EL. 160.423 M

TECHNICAL DETAILS		
HEAD REGULATOR BULKHEAD GATE		
1	No. OF OPENING	6 Nos.
2	SIZE OF BULKHEAD	7.62 M(W) x 3.10 M(H)
3	OPERATION BY	13T E.O.T.
4	OPERATING CONDITION	BALANCED HEAD ACHIEVED BY FILLING IN VALVE
5	OPENING	7.62 M(W) x 3.048 M(H)
6	SILL LEVEL	EL. 153.924 M
7	FSL	EL. 158.80 M
8	TOP OF PIER	EL. 160.423 M

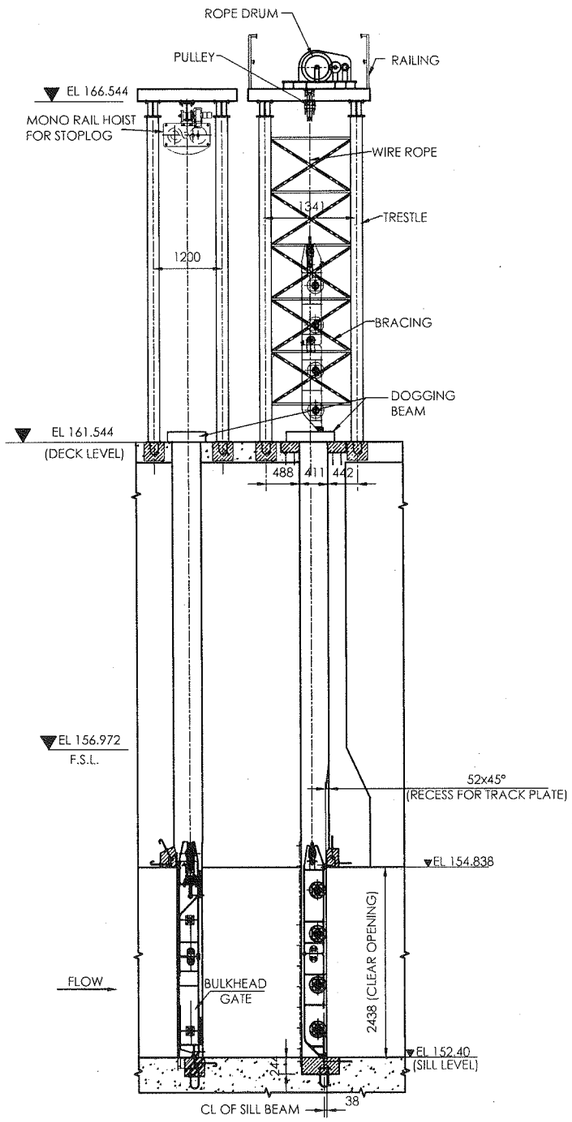
HEAD REGULATOR GATE AND BULKHEAD GATE-GA

DMR | CHIPILIMA | NBCC | OHPC |

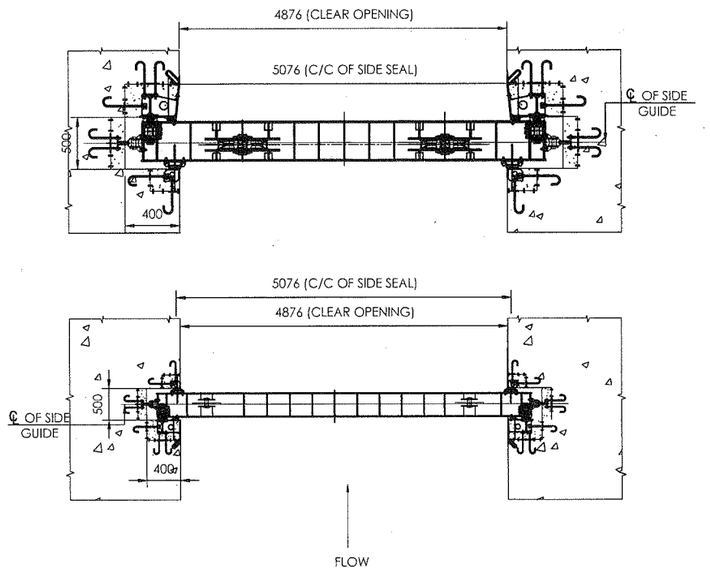
CAD File Name : HEAD REGULATOR GATE AND BULKHEAD GATE-GA.DWG



ELEVATION



SECTION A-A



SECTION B-B

LEGEND :-

- 1ST. STAGE CONCRETING
- 2ND STAGE CONCRETING (ONE GRADE HIGHER THAN 1st STAGE)

NOTE :-

1. ALL DIMENSIONS ARE IN mm. AND LEVELS ARE IN METERS.
2. NO. OF OPENINGS - 3 AND NO. OF SERVICE GATES - 3
3. OPENINGS - 4.876 m (W) x 2.438 m (H)
4. SIZE OF SERVICE GATE: 4.876m (W) x 2.5m (H)
5. SERVICE GATES HOISTS - 3 NOS. RDH OF 11.5T CAPACITY.
6. NO. OF BULKHEAD GATE - 1.
7. SIZE OF BULKHEAD GATE: 4.876m (W) x 2.50m (H)
8. BULKHEAD GATE HOIST - 1 NO. MONORAIL OF 2.5T CAPACITY.
9. ONLY MARK DIMENSION CAN BE CONSIDERED.
10. GIVEN DIMENSIONS ARE TENTATIVE.

CROSS REGULATOR SERVICE AND BULKHEAD GATE-GA

DMR | CHIPLIMA | NBCC | CHPC

CAD File Name : CROSS REGULATOR SERVICE AND BULKHEAD GATE-GA.DWG