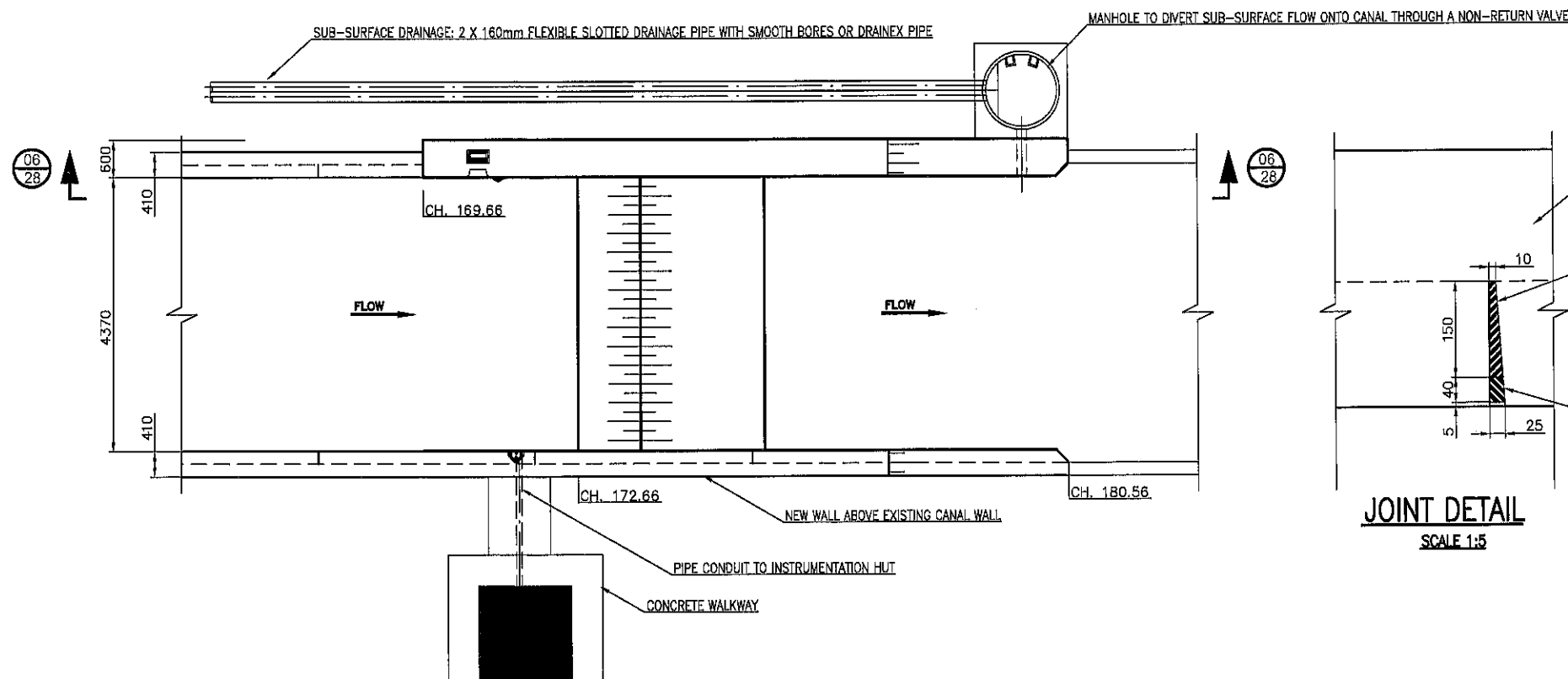
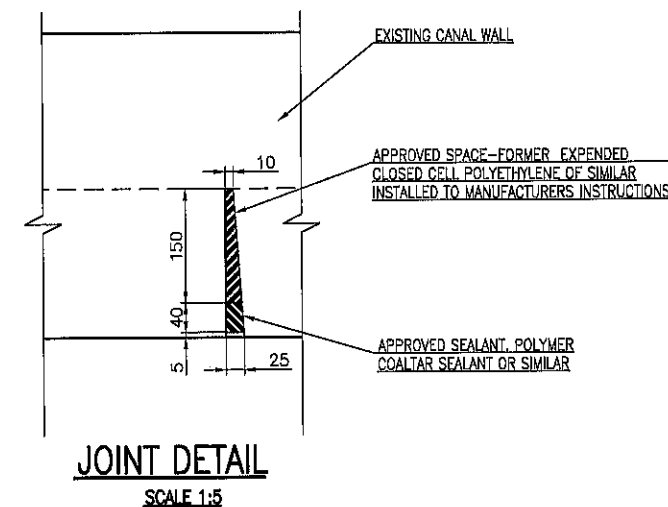




PLAN VIEW OF CRUMP WEIR
SCALE 1:50

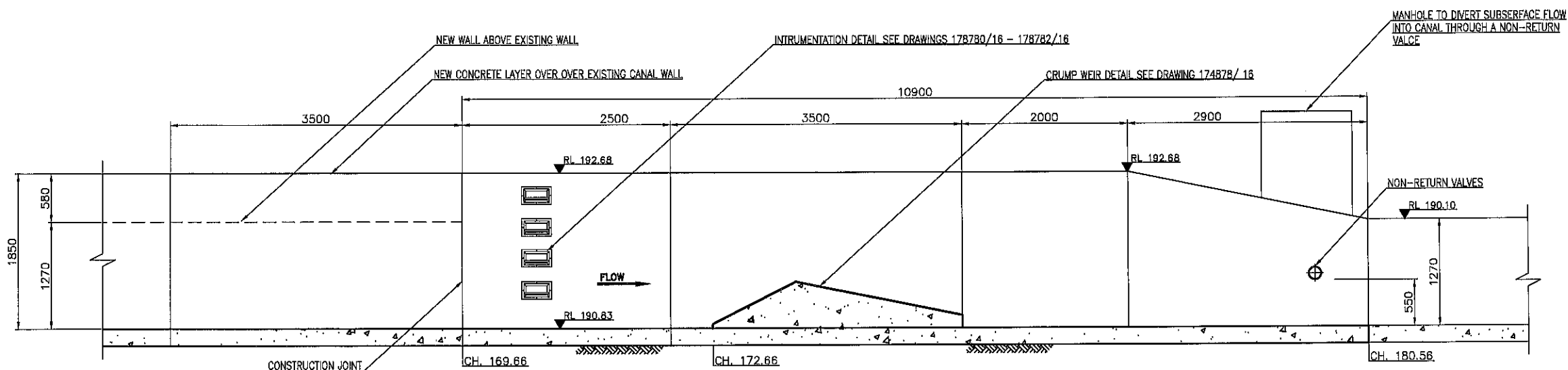


NOTES:

- RAISE CANAL BY PLACING A NEW CONCRETE WALL OVER THE EXISTING CANAL.
 - ON THE LEFT SIDE RAISE CANAL FROM CHAINAGE 138.690M TO 169.660M.
 - ON THE RIGHT SIDE RAISE CANAL FROM CHAINAGE 138.690M TO 180.560M.
 - BREAK-OUT AND RECONSTRUCT EXISTING CANAL ON THE LEFT SIDE FROM CHAINAGE 169.660M TO 180.56M TO ACCOMMODATE FOR NEW INSTRUMENTATION.
- SEAL JOINTS BETWEEN NEW AND EXISTING SURFACES USING APPROVED SEALANT AND SPACEFORMER AS SPECIFIED ON THE JOINT DETAIL DRAWING.
- CONSTRUCT CRUMP WEIR WITHIN CANAL FROM CHAINAGE 172.660M TO 175.660M.
- SUPPLY AND INSTALL INSTRUMENTATION AND RELATED ITEMS AND CONSTRUCT REINFORCED CONCRETE INSTRUMENTATION HUT ADJACENT TO THE CANAL. SEE DRAWING NUMBERS 174880/16 TO 174882/16.
- SUPPLY, LAY AND BED SUB-SURFACE DRAINAGE SYSTEM WITH CONCRETE MANHOLE ALONG THE LEFT SIDE OF THE CANAL.
 - SUB-SURFACE DRAINAGE PIPE TO RUN FROM CHAINAGE 118.36m TO 179.81m.
 - SUPPLY AND INSTALL PRECAST CONCRETE MANHOLE AT CHAINAGE 179.81m.
 - Ø200 STAINLESS STEEL PIPE WITH NON-RETURN VALVE TO BE INSTALLED WITHIN MANHOLE ACCORDING TO MECHANICAL SPECIFICATION AND DRAWINGS.
- MAKE PROVISION FOR SUMP DE-WATERING PIPES RUNNING FROM FLOW METER CHAMBER AND STRAINER ROOM INTO THE CANAL. SEE MECHANICAL AND DE-WATERING EQUIPMENT DRAWING 174581/16 ME.
- FOR REINFORCEMENT DETAILS REFER TO BLOCK 3 DRAWING NUMBERS 174878/16 AND 174879/16.
- MAKE PROVISION FOR MECHANICAL, ELECTRICAL AND DE-WATERING EQUIPMENT. REFER TO MECHANICAL, ELECTRICAL AND DE-WATERING EQUIPMENT DRAWINGS.
- BACKFILL TO RAISED CANAL WALL LEVEL, MATERIAL FOR BACKFILLING TO BE APPROVED BY THE EMPLOYER'S AGENT.
- CONTRACTOR TO PROVIDE EMPLOYER'S AGENT WITH METHOD STATEMENTS FOR APPROVAL PRIOR TO ANY DEMOLITION, EXCAVATION, FOUNDATION PREPARATION, SURFACE PREPARATION (FROM NEW TO EXISTING STRUCTURES) AND CONSTRUCTION.

SPECIFICATIONS:

- CONCRETE CLASS 40/19
- 50% GROUND GRANULATED COREX SLAG (GGCS) CEMENT REPLACEMENT (OR EQUIVALENT, SUBJECT TO THE APPROVAL OF THE EMPLOYER'S AGENT)
- ALL EXPOSED CORNERS TO HAVE 25 X 25 MM CHAMFER.
- ALL NON-SHUTTERED CONCRETE SURFACES SHALL HAVE WOOD-FLOATED FINISHES.
- SLOTTED HDPE PIPES WITH SMOOTH BORE:
 - DIAMETER: 160mm
 - SLOT WIDTH: 1.8mm
 - MINIMUM SLOPE TOWARDS NEW DOWNSTREAM MANHOLE: 0.1% (1:1000)



SECTION 06-06
SCALE 1:30

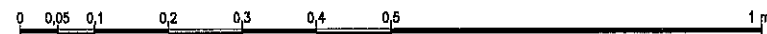
STATUS:

CONSTRUCTION

32 OF 55	ALTERATIONS OF CANAL AT EXISTING PARSHALL FLUME: REINFORCEMENT DETAILS AND BENDING SCHEDULE	174879/16
31 OF 55	RAISING OF CANAL WALLS: REINFORCEMENT DETAILS AND BENDING SCHEDULE	174878/16
30 OF 55	REMOVAL OF PARSHALL FLUME AND RECONSTRUCTION OF CANAL SECTION BETWEEN CHAINAGE 229.84m AND 238.34m	174877/16
29 OF 55	RAISING OF CANAL WALLS: MANHOLE DETAIL FOR SUBSURFACE DRAINAGE ALONG THE LEFT SIDE OF THE CANAL	174876/16
28 OF 55	RAISING OF CANAL WALLS: CRUMP WEIR AND RECONSTRUCTION OF A SECTION OF THE LEFT CANAL WALL WITH INSTRUMENTATION	174875/16
27 OF 55	RAISING OF CANAL WALLS: CROSS SECTIONS 03-03, 04-04 AND 05-05	174874/16
26 OF 55	RAISING OF CANAL WALLS: CROSS SECTIONS 01-01 AND 02-02	174873/16
25 OF 55	RAISING OF CANAL WALLS: PLAN VIEW AND LONGITUDINAL SECTION	174872/16
2 OF 55	GENERAL LAYOUT OF OUTLET WORKS (KEY PLAN)	174849/16
1 OF 55	LIST OF DRAWINGS FOR REHABILITATION OF OUTLET WORKS	174848/16

LIST OF DRAWINGS

SCALE 1:5



SCALE 1:50



REVISION

MOD No.	DATE	DESCRIPTION	FOR	DWA

SECTION
01
02
SHEET
NUMBER

DEPARTMENT OF WATER AND SANITATION REPUBLIC OF SOUTH AFRICA

HEAD OFFICE
STRATEGIC ASSET MANAGEMENT
PRIVATE BAG X 313
PRETORIA 0001



SERIBENS BUILDING
185 FRANCIS BAARD STREET
PRETORIA
012 336 7500

CHECKED: K. POOE
ENGINEER: MUNRO
CHIEF ENG/APP (PR ENG)
DATE: 17/08/2020
DESIGNED: TI MABALE
DRAWN: TI MABALE
DATE: 17/08/2020
EXTERNAL APPROVAL: DATE: 17/08/2020

DAM SAFETY REHABILITATION PROJECT

KWAGGASKLOOF DAM REHABILITATION PROJECT

RAISING OF CANAL WALLS: CRUMP WEIR AND RECONSTRUCTION OF A SECTION
OF LEFT CANAL WALL WITH INSTRUMENTATION

PROVINCE: WESTERN CAPE
DISTRICT: WORCESTER
LOCALITY No: H100-08
TENDER/ CONTRACTS No: 174875/16
KEY CODES: DAE SLP DET PSS OTHER No: XXX
SHEET: 26 OF 55
REV: 00