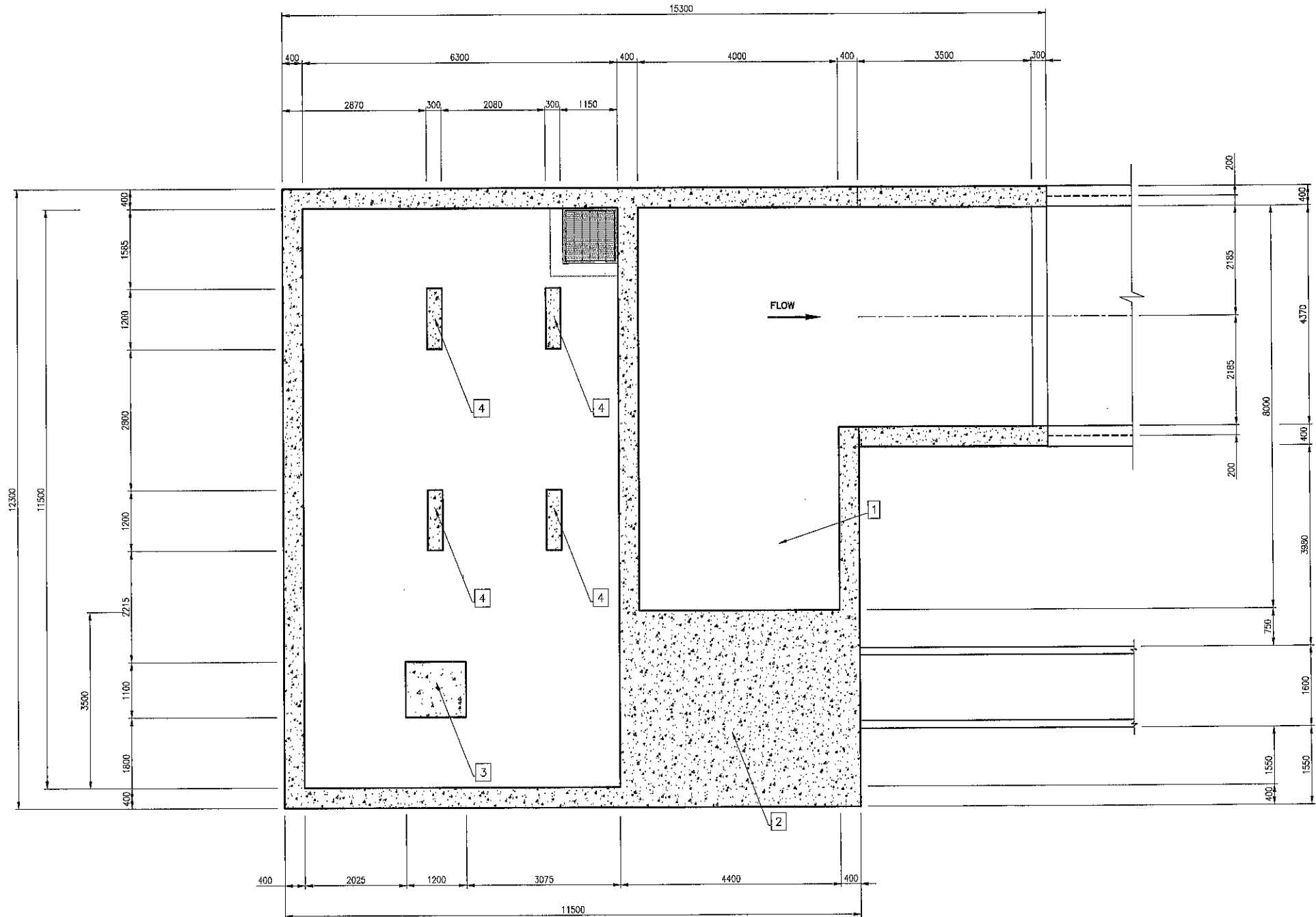
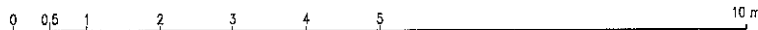


ANNOTATION TABLE	
1	STILLING BASIN
2	MASS CONCRETE BLOCK
3	CONCRETE BASE SEE DETAIL '1-D' SEE DWG 174852/16
4	CONCRETE BASE SEE DETAIL '1-B' SEE DWG 174852/16



SECTION 12-12
CROSS SECTION SEE DWG NO. 174857/16
SCALE 1:50

SCALE 1:50



NOTES:

- DEMOLISH AND REMOVE SECTIONS OF EXISTING STILLING BASIN AND CANAL TO MAKE PROVISION FOR THE NEW OUTLET STRUCTURE.
- PRIOR TO WELDING PIPE (ITEM 1, MECHANICAL DRAWINGS) ENSURE PROPER SURFACE PREPARATION BY CHIPPING EXISTING WALL AROUND THE LEFT OUTLET PIPE, TO MAKE PROVISION FOR WORKING SPACE.
- EXCAVATE FOR FOUNDATIONS AND CONSTRUCT NEW REINFORCED CONCRETE OUTLET STRUCTURE.
- FOR CONCRETE DETAILS REFER TO BLOCK 1 DRAWING NUMBERS 174849/16 TO 174859/16.
- FOR REINFORCEMENT DETAILS REFER TO BLOCK 2 DRAWING NUMBERS 174860/16 TO 174870/16.
- MAKE PROVISION FOR MECHANICAL, ELECTRICAL AND DE-WATERING EQUIPMENT. REFER TO MECHANICAL, ELECTRICAL AND DE-WATERING EQUIPMENT DRAWINGS FOR THE FOLLOWING DETAILS:
 - PIPES AND SPECIALS.
 - VALVES
 - CRANE
 - MISCELLANEOUS (GRATINGS, BEAMS, LADDERS, MANHOLE COVERS, VENTILATORS, LOUVERED VENTS, WINDOW GUARDS, ACCESS DOORS AND CLADDING PLATES).
 - ELECTRICAL WORKS (LIGHTS, CABLING, DUCTS, DISTRIBUTION BOARDS, ETC).
 - DE-WATERING EQUIPMENT (SUMP PUMPS, DRAINAGE PIPES).
- 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.
- THE DEPTH AND NATURE OF THE EXISTING FOUNDATION MATERIAL IS UNKNOWN AND WILL BE DETERMINED ON SITE, THE EMPLOYER'S AGENT WILL APPROVE THE FOUNDATION AND SURFACE BEFORE ANY CONSTRUCTION WILL COMMENCE.
- CONTRACTOR TO TAKE INTO ACCOUNT ALL INFORMATION INCLUDED IN THE CONTRACT, INCLUDING BUT NOT LIMITED TO CONTRACT DATA, PRICING DATA, SCOPE OF WORKS WITH SPECIFICATIONS AND SITE INFORMATION.

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 25mm CHAMFER.
- MAKE PROVISION FOR STAINLESS STEEL CLADDING TO BE CAST IN STILLING CHAMBER AND ACCESS SLABS USING FISHTAILS (SEE MECHANICAL DRAWINGS ON STAINLESS STEEL CLADDING AT SLEEVE VALVE CHAMBER, DRAWING NUMBERS 174375/16ME TO 174378/16ME AND 174368/16ME).
- ALL NON-SHUTTERED CONCRETE SURFACES SHALL HAVE WOOD-FLOATED FINISHES.
- WINDOWS TO BE GLASS WITH ALUMINIUM FRAMES AND MUST COMPLY WITH SANS CODES 1263-1, 10137 AND 10400. TWO 1500 X 1500mm AND ONE 1500 X 750mm TO BE PROVIDED.
- LIFTING HOOKS FOR ACCESS SLABS TO BE PROVIDED AS SPECIFIED ON DRAWING 174866/16.

STATUS:

FOR CONSTRUCTION

SHEET	DESCRIPTION	OTHER NO.	REV. NO.
9 OF 55	NEW OUTLET STRUCTURE: CROSS SECTION 06-06		174856/16
8 OF 55	NEW OUTLET STRUCTURE: CROSS SECTION 07-07		174855/16
7 OF 55	NEW OUTLET STRUCTURE: LONG SECTION 06-06		174854/16
6 OF 55	NEW OUTLET STRUCTURE: LONG SECTION 05-05		174853/16
5 OF 55	NEW OUTLET STRUCTURE: PLAN VIEW		174852/16
4 OF 55	ROUTING OF GALLERY AND MODIFICATIONS AT EXISTING OUTLET CULVERT STRUCTURE		174851/16
2 OF 55	GENERAL LAYOUT OF OUTLET WORKS (KEY PLAN)		174849/16
1 OF 55	LIST OF DRAWINGS SERIES 0600 OUTLET WORKS: CONCRETE AND REINFORCEMENT DETAILS		174848/16

LIST OF DRAWINGS

DEPARTMENT OF WATER AND SANITATION REPUBLIC OF SOUTH AFRICA

HEAD OFFICE
STRATEGIC ASSET MANAGEMENT
PRIVATE BAG X 313
PRETORIA 0001



SEDI BENIC BUILDING
185 FRANCIS BAARD STREET
PRETORIA
012 336 7500

DESIGNED: S REYNOLDS

CHECKED: T MABALE

DRAWN: N. MADONSELA

ENGINEER: C. MATHIBELI

DATE: 12/08/2017

CHIEF ENG/ APP (PR. ENG)

DATE: 12/08/2017

DAM SAFETY REHABILITATION PROJECT

KWAGGASKLOOF DAM REHABILITATION PROJECT

NEW OUTLET STRUCTURE: CROSS SECTION 12-12

PROVINCE: WESTERN CAPE	DISTRICT: WORCESTER	KEY CODES	COC	CAN	SEC	CDT	OTHER NO. XXX
LOCALITY No: H100-08	TENDER/ CONTRACTS No:	SHEET 12 OF 55	REG. No. 174859/16	REV. 00			