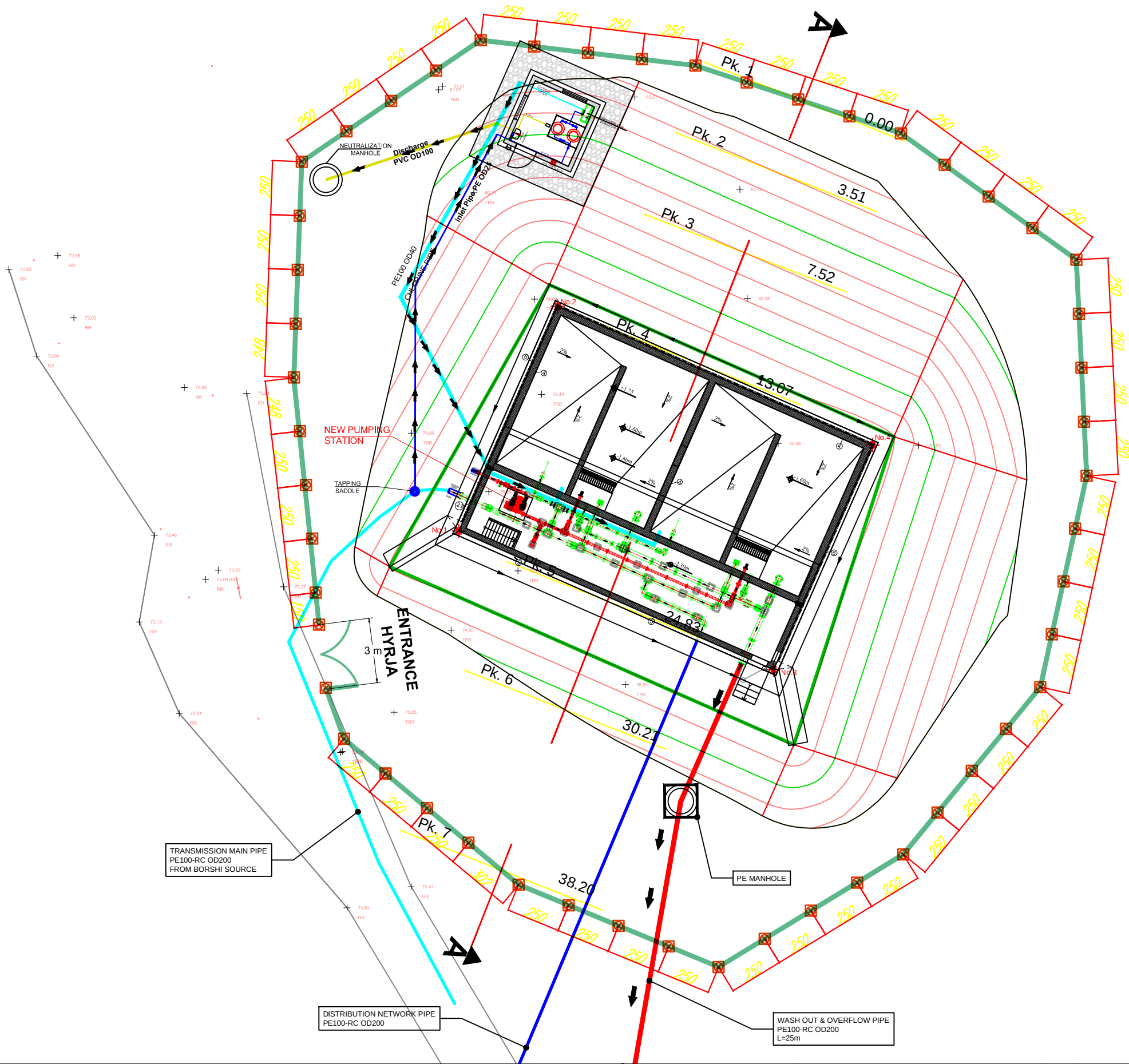


LAYOUT OF RESERVOIR No.01 V=300 M³ EL:75 masl FOR QEPARO SC: 1:50
PLANIMETRIA E REZERVUARIT Nr.01 V=300 m³ NE KUOTEN +75m, PER QEPARO SHK: 1:50



REFERENCE POINT			
No.	X	Y	z
1	400,091.95	4,434,642.89	75.00
2	400,096.53	4,434,653.28	75.00
3	400,106.50	4,434,636.48	75.00
4	400,111.08	4,434,646.87	75.00

PROJECT: Rural Water Supply 3 - BMZ ID 2020 61 695 / Ujesjellesi Rural 3 - BMZ ID 2020 61 695
PROJEKTI: CONSULTING SERVICES FOR PROJECT PREPARATION AND FEASIBILITY STUDIES FOR CONSTRUCTION/RECONSTRUCTION OF WATER SUPPLY SYSTEMS IN RURAL AREAS
SHERBIME KONSULENCE PER PERGATITJEN E PROJEKTEVE DHE STUDIMEVE TE FIZIBILITETIT PER NDERTIMIN/RINDERTIMIN E RRJETIT TE UJESJELLESIT NE ZONAT RURALE
TITLE: LAYOUT OF RESERVOIR No.01 V=300 M³ EL:75 masl FOR QEPARO SC: 1:50
TITULLI: PLANIMETRIA E REZERVUARIT Nr.01 V=300 m³ NE KUOTEN +75m, PER QEPARO SHK: 1:50

CLIENT:
KLIENTI:

**ALBANIAN DEVELOPMENT FUND**
FONDI SHQIPTAR I ZHVILLIMIT

FUNDING:
FINANCUESI:



ENGINEER: INXHIINIER:

**CES**
Consulting Engineers
Salzgitter GmbH

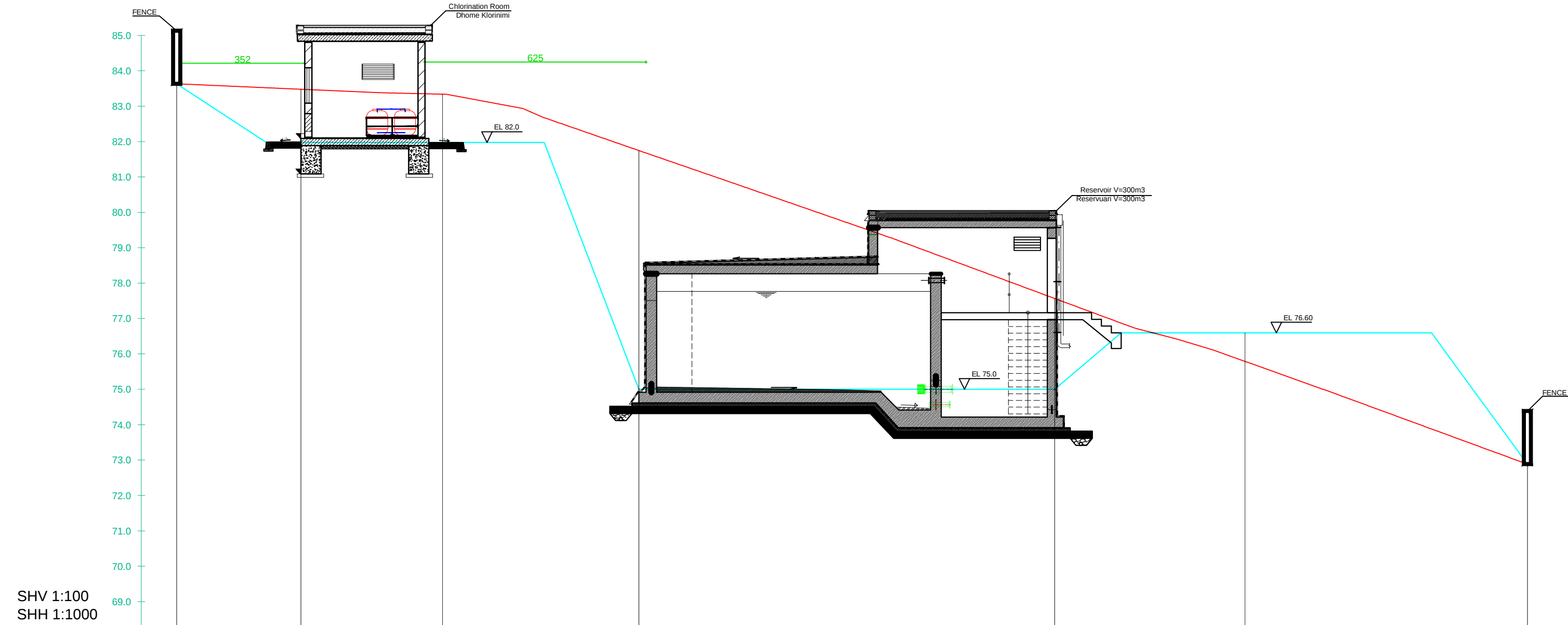
Sub - Consultant:



02	FINAL	DECEMBER 2018
01	DRAFT	OCTOBER 2018
No. Rev	DESCRIPTION OF REVISION	DATE

SCALE: SHKALLA:	1 : 200		
DATE:	OCTOBER 2018		
APPROVAL DATE:	DECEMBER 2018		
FILE NAME: EMRI DOK:	RWSIII-013.2QEP_DWG_WS-RES300m3.dwg		
DWG No.: Nr. VIZATIMIT:	RWSIII-013.2QEP-DWG-WS-LAY-RES300m³-01		

SECTION A-A OF RESERVOIR No.01 V=300 M³ EL:75masl FOR QEPARO SC: 1:50
PRERJA A-A E REZERVUARIT Nr.01 V=300 m³ NE KUOTEN +75m, PER QEPARO SHK: 1:50



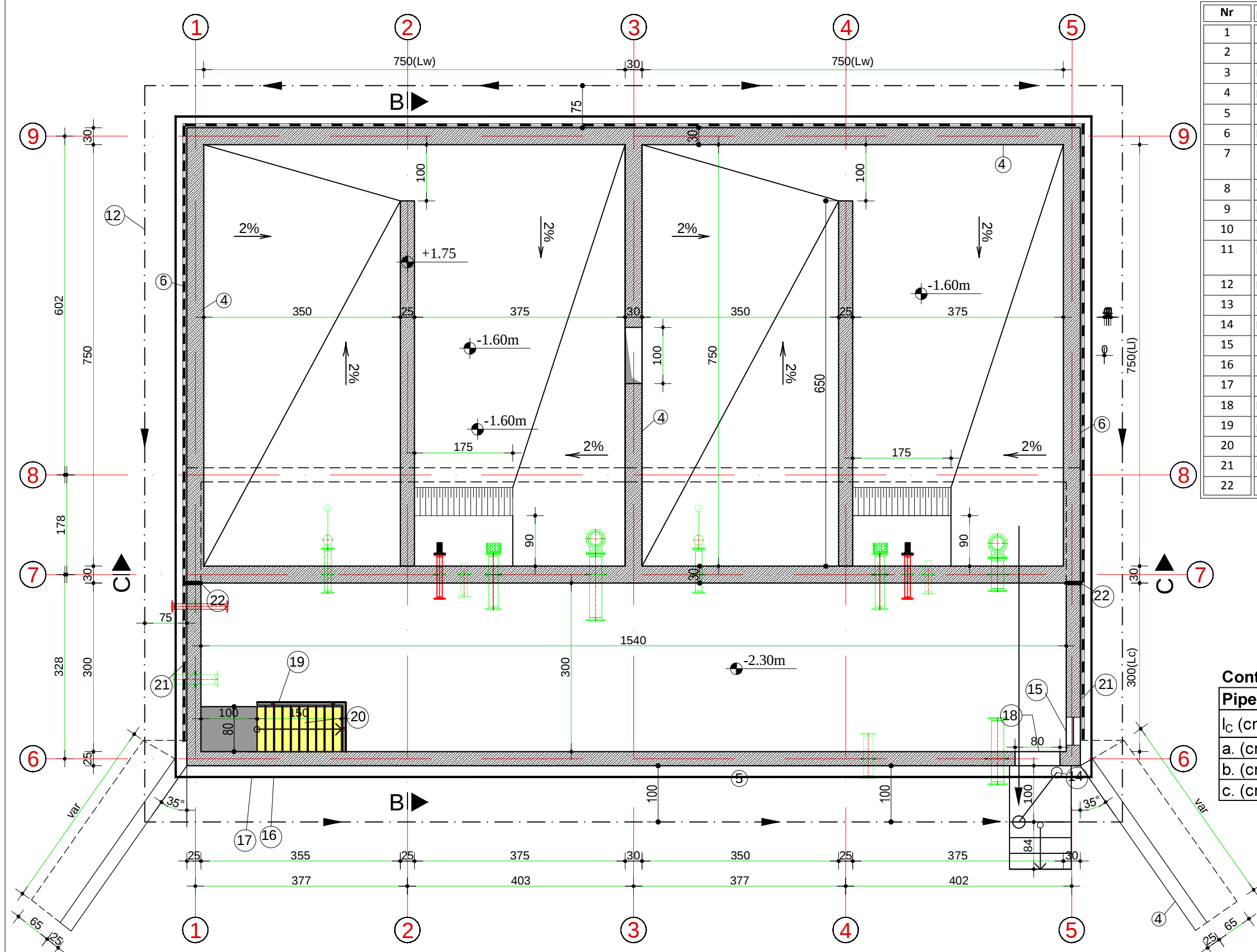
EXCAVATION GERMIMI							
PROJECT ELEVATION KUOTA E PROJEKTIT	83.63	82.0	82.0	75.00	75.00	76.6	72.88
GROUND ELEVATION KUOTA E TOKES	83.63	83.48	83.34	81.75	77.56	75.79	72.88
NODE NUMBER NUMRI I PIKETES	1	2	3	4	5	6	7
PARTIAL DISTANCE DISTANCA PJESORE	3.51	4.00	5.55	11.76	5.38	7.99	
PROGRESSIVE DISTANCE DISTANCA PROGRESIVE	0.00	3.51	7.52	13.07	24.83	30.21	38.20
NOTES SHENIME	Excavation	Chlorination Room	Excavation	Reservoir V=300m3		Backfilling with excavation material	

PLAN OF RESERVOIR No.01 V=300 M³ EL:75masl FOR QEPARO

SC: 1:50

PLANIMETRIA E REZERVUARIT Nr.01 V=300 m³ NE KUOTEN +75m, PER QEPARO

SHK: 1:50



Nr	DESCRIPTION
1	Air Vent,Steel,DN 100
2	Topsoil, thickness 20 cm
3	Backfill with non-cohesive, compactable soil, DPR ≥ 97%
4	Reinforced concrete,watertight,concrete class C30/37
5	Watertight wall penetration (FF-piece with puddle flange,DN various)
6	Drainage mat (dimpled plastic membrane and filter fabric)
7	Watertight construction joint with flexible PVC or elastomer joint tape (width: ≥ 30cm) to be installed in the centre of the wall
8	Cement screed, strength 30 N/mm2 , minimum thickness 40mm
9	Fibre-reinforced welded asphalt sheeting
10	Non-reinforced concrete subbase, concrete class C12/15, thickness 10cm
11	Horizontal filter gravel layer, grain size 0/32, thickness :20cm, degree of compaction DPR=97%
12	Perforated plastic drainpipe wrapped in geotextile, DN 100
13	Subgrade , DPR ≥ 97%
14	Roof drainage
15	Ventilation opening with galvanized steel frame and fly screen, 50x30cm
16	Waterproof cement plaster (two layers, thickness: 2cm)
17	Washproof dispersion paint (two layers)
18	Exterior door,steel,thickness of door blade: 5cm, with polyurethane insulation
19	Handrail
20	Steel stairs
21	Protective asphalt coating (three layers)
22	Watertight construction joint with adhesive joint sealant

Storage Volume (m3)		(2x150)
DIMENSIONS (m)		
Length L(m)	Width B(m)	Water Height h(m)
7.5	7.5	2.85

Control building

Pipe diameter	DN 80	DN 100	DN 150
l _c (cm)	300.00	300.00	350.00
a. (cm)	40.00	40.00	40.00
b. (cm)	55.00	55.00	55.00
c. (cm)	52.50	52.50	52.50

PROJECT: Rural Water Supply 3 - BMZ ID 2020 61 695 / Ujesjellesi Rural 3 - BMZ ID 2020 61 695
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SHERBIME KONSULENCE PER PERGATITJEN E PROJEKTEVE DHE STUDIMEVE TE FIZIBILITETIT PER NDERTIMIN/RINDERTIMIN E RRJETIT TE UJESJELLESIT NE ZONAT RURALE
TITULLI: PLAN OF RESERVOIR No.01 V=300 M³ EL:75masl FOR QEPARO
PLANIMETRIA E REZERVUARIT Nr.01 V=300 m³ NE KUOTEN +75m, PER QEPARO

CLIENT:
KLIENTI:



ALBANIAN DEVELOPMENT FUND
FONDI SHQIPTAR I ZHVILLIMIT

FUNDING:
FINANCUESI:



ENGINEER: INXHINIER:



CES
Consulting Engineers
Salzgitter GmbH

Sub - Consultant:



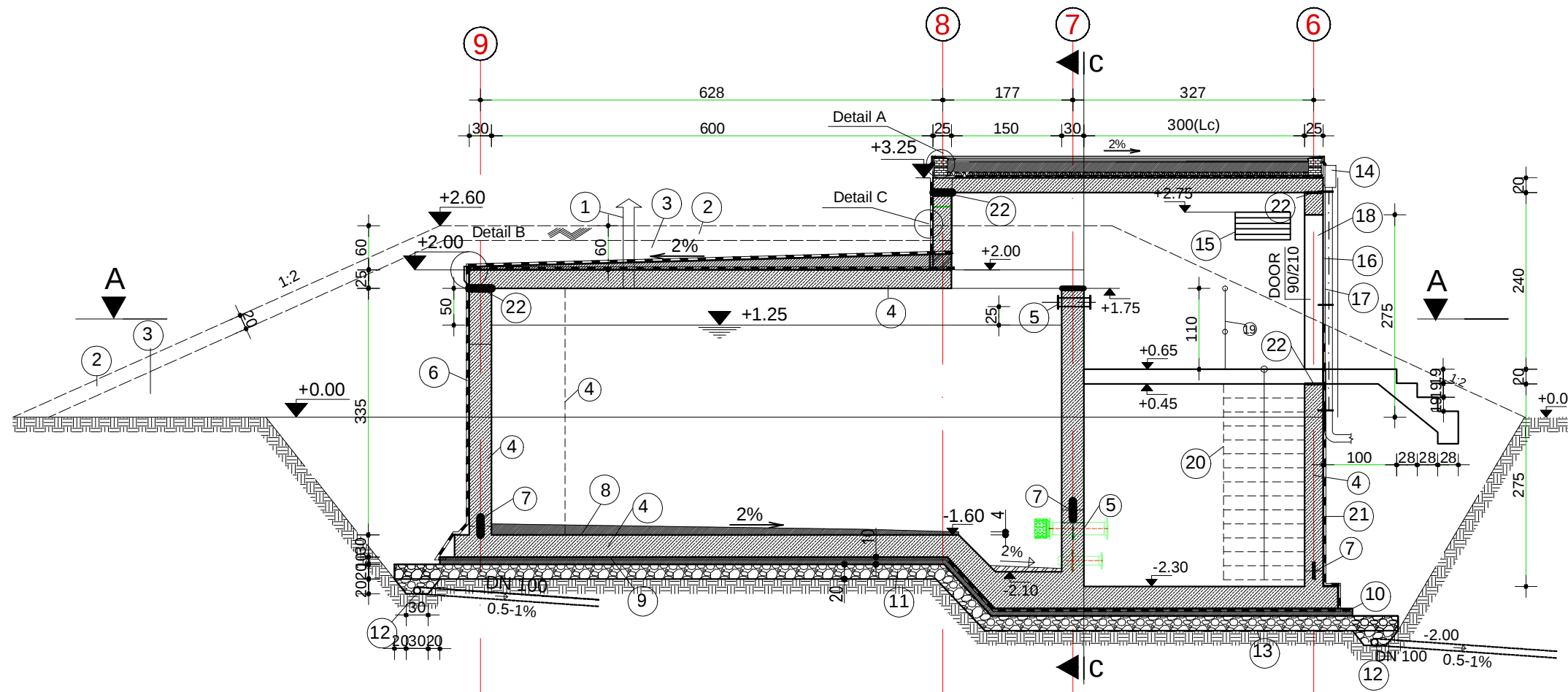
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02	FINAL	DECEMBER 2018	DATE: APPROVAL DATE:  OCTOBER 2018 DECEMBER 2018
01	DRAFT	OCTOBER 2018	FILE NAME: RWSIII-013.2QEP_DWG_WS-RES300m3.dwg EMRI DOK: RWSIII-013.2QEP-DWG-WS-RES-300m³-001

SECTION B-B OF RESERVOIR No.01 V=300 M³ EL:75masl FOR QEPARO

SC: 1:50

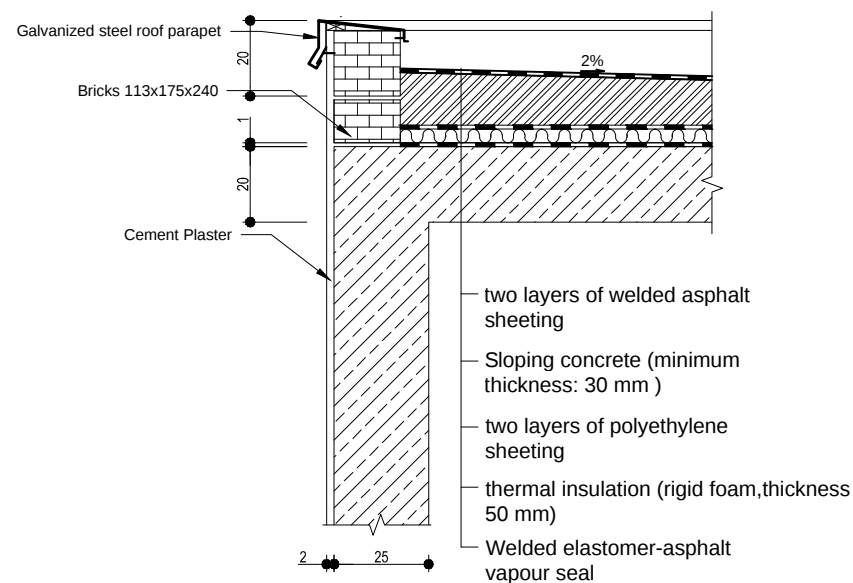
PRERJA B-B E REZERVUARIT Nr.01 V=300 m³ NE KUOTEN +75m, PER QEPARO

SHK: 1:50

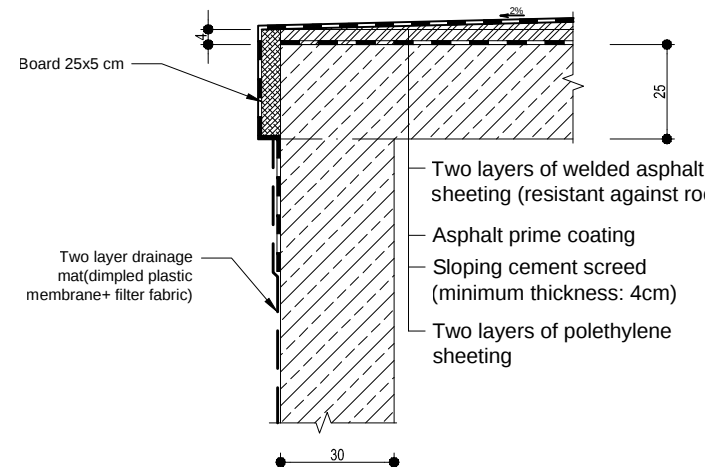


Nr	DESCRIPTION
1	Air Vent,Steel,DN 100
2	Topsoil, thickness 20 cm
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18	Exterior door,steel,thickness of door blade: 5cm, with polyurethane insulation
19	Handrail
20	Steel stairs
21	Protective asphalt coating (three layers)
22	Watertight construction joint with adhesive joint sealant

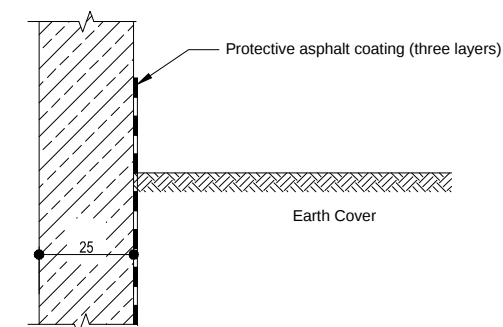
Detail A - roof control building



Detail B Reservoir cover slab



Detail C



PROJECT: Rural Water Supply 3 - BMZ ID 2020 61 695 / Ujesjellesi Rural 3 - BMZ ID 2020 61 695
PROJEKTI: CONSULTING SERVICES FOR PROJECT PREPARATION AND FEASIBILITY STUDIES FOR CONSTRUCTION/RECONSTRUCTION OF WATER SUPPLY SYSTEMS IN RURAL AREAS
SHERBIME KONSULENCE PER PERGATITJEN E PROJEKTEVE DHE STUDIMEVE TE FIZIBILITETIT PER NDERTIMIN/RINDERTIMIN E RRJETIT TE UJESJELLESIT NE ZONAT RURALE

TITLE:
TITULLI: SECTION B-B OF RESERVOIR No.01 V=300 M³ EL:75masl FOR QEPARO
PRERJA B-B E REZERVUARIT Nr.01 V=300 m³ NE KUOTEN +75m, PER QEPARO

CLIENT:
KLIENTI:



ALBANIAN DEVELOPMENT FUND
FONDI SHQIPTAR I ZHVILLIMIT

FUNDING:
FINANCUESI:



KFW

ENGINEER: INXHINIER:



CES
Consulting Engineers
Salzgitter GmbH

Sub - Consultant:



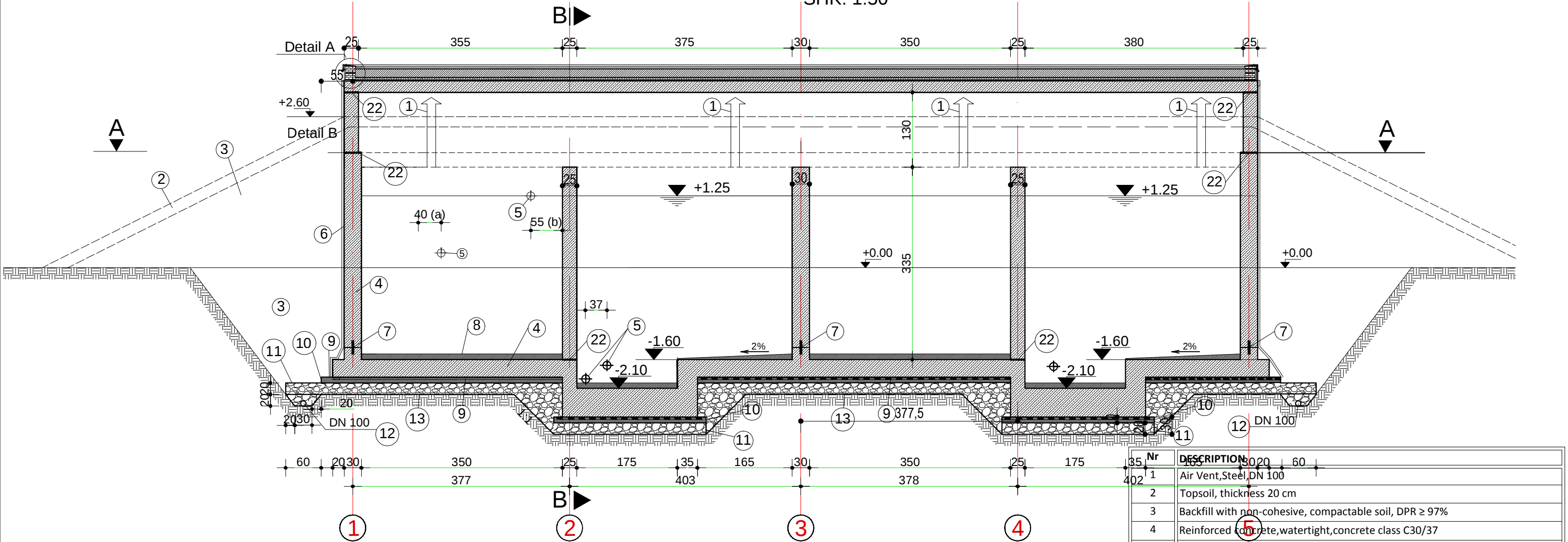
			SCALE: SHKALLA: 1 :50
02	FINAL	DECEMBER 2018	DATE: APPROVAL DATE: <i>[Signature]</i> OCTOBER 2018 DECEMBER 2018
01	DRAFT	OCTOBER 2018	FILE NAME: EMRI DOK: RWSIII-013.2QEP_DWG_WS-RES300m3.dwg
No. Rev	DESCRIPTION OF REVISION	DATE	DWG No.: Nr. VIZATIMIT: RWSIII-013.2QEP-DWG-WS-RES-300m³-002

SECTION C-C OF RESERVOIR No.01 V=300 M³ EL:75masl FOR QEPARO

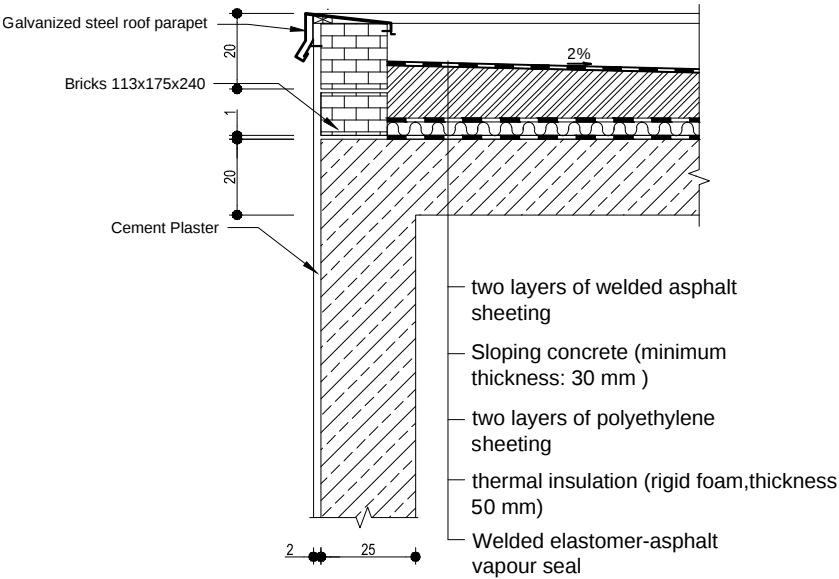
SC: 1:50

PRERJA C-C E REZERVUARIT Nr.01 V=300 m³ NE KUOTEN +75m, PER QEPARO

SHK: 1:50



Detail A - roof control building



Nr	DESCRIPTION
1	Air Vent,Steel,DN 100
2	Topsoil, thickness 20 cm
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PROJECT: Rural Water Supply 3 - BMZ ID 2020 61 695 / Ujesjellesi Rural 3 - BMZ ID 2020 61 695
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TITLE: SECTION C-C OF RESERVOIR No.01 V=300 M³ EL:75masl FOR QEPARO
TITULLI: PRERJA C-C E REZERVUARIT Nr.01 V=300 m³ NE KUOTEN +75m, PER QEPARO

CLIENT: KLIENTI:
FUNDING: FINANCIUESI:
ALBANIAN DEVELOPMENT FUND
FONDI SHQIPTAR I ZHVILLIMIT
bashkëpunimi gjerman
DEUTSCHE ZUSAMMENARBEIT
KFW

ENGINEER: INXHINIER:
Sub - Consultant:
CES
Consulting Engineers
Salzgitter GmbH
SE

No. Rev	DESCRIPTION OF REVISION	DATE	SCALE: SHKALLA: 1 :50
02	FINAL	DECEMBER 2018	DATE: APPROVAL DATE: OCTOBER 2018 DECEMBER 2018
01	DRAFT	OCTOBER 2018	FILE NAME: RWSIII-013.2QEP_DWG_WS-RES300m3.dwg
			DWG No.: RWSIII-013.2QEP-DWG-WS-RES-300m³-003

SECTION 1-1/2-2/

SECTION 3-3

OBJEKTI: REZERVUARI 300 M3
KONSTRUKTOR: AGIM SERANAJ

PROJEKTI KONSTRUKTIV

TABELA E FLETEVE

NR. I FLETES	EMERTIMI I FLETES
K-01	REZERVUARI 300 M³, SHENIME TEKNIKE DHE KONSTRUKTIVE
K-02	REZERVUARI 300 M³, PLANI I THEMELEVE
K-03	REZERVUARI 300 M³, PAMJET E MUREVE B/A 1, 2, 3, 4 DHE 5
K-04	REZERVUARI 300 M³, PAMJET E MUREVE B/A A, B, C DHE D
K-05	REZERVUARI 300 M³, PLLAKA E THEMELIT (zgara e poshtme)
K-06	REZERVUARI 300 M³, PLLAKA E THEMELIT (zgara e sipërme)
K-07	REZERVUARI 300 M³, PRERJA A1-A1. TABELA E HEKURIT
K-08	REZERVUARI 300 M³, MURI B/A 1
K-09	REZERVUARI 300 M³, MURI B/A 2&4
K-10	REZERVUARI 300 M³, MURI B/A 3
K-11	REZERVUARI 300 M³, MURI B/A 5
K-12	REZERVUARI 300 M³, MURI B/A A
K-13	REZERVUARI 300 M³, MURI B/A B
K-14	REZERVUARI 300 M³, MURI B/A C
K-15	REZERVUARI 300 M³, MURI B/A D
K-16	REZERVUARI 300 M³, PLANET E STRUKTURAVE
K-17	REZERVUARI 300 M³, ARMIMI I SOLETES KUOTA +0.65/+2.00
K-18	REZERVUARI 300 M³, ARMIMI I SOLETES KUOTA +3.25. TRAU T-1
K-19	REZERVUARI 300 M³, SHKALLET S-1

OBJECT: RESERVOIR 300 M3
STRUCTURAL ENG.: AGIM SERANAJ

DETAILED PROJECT

TABLE OF CONTENT

Page no.	PAGE TITLE
K-01	RESERVOIR 300 M³, TECHNICAL AND STRUCTURAL NOTES
K-02	RESERVOIR 300 M³, FOUNDATION PLAN
K-03	RESERVOIR 300 M³, RC WALLS 1, 2, 3, 4 AND 5 VIEW
K-04	RESERVOIR 300 M³, RC WALLS A, B, C AND D VIEW
K-05	RESERVOIR 300 M³, FOUNDATION LOWER REINFORCEMENT
K-06	RESERVOIR 300 M³, FOUNDATION UPPER REINFORCEMENT
K-07	RESERVOIR 300 M³, SECTION A1-A1. TABLE OF REINFORCEMENT
K-08	RESERVOIR 300 M³, RC WALL 1
K-09	RESERVOIR 300 M³, RC WALL 2&4
K-10	RESERVOIR 300 M³, RC WALL 3
K-11	RESERVOIR 300 M³, RC WALL 5
K-12	RESERVOIR 300 M³, RC WALL A
K-13	RESERVOIR 300 M³, RC WALL B
K-14	RESERVOIR 300 M³, RC WALL C
K-15	RESERVOIR 300 M³, RC WALL D
K-16	RESERVOIR 300 M³, STRUCTURAL PLANS
K-17	RESERVOIR 300 M³, SLAB REINFORCEMENT LEVEL +0.65/+2.00
K-18	RESERVOIR 300 M³, SLAB REINFORCEMENT LEVEL +3.25. BEAM T-1
K-19	RESERVOIR 300 M³, STAIRCASE S-1

DESIGN STANDARTS AND APPLIED LOADS:

- 1- Design Codes - Albanian Code KTP 89 and Eurocode.
- 2- The structure's lifetime - 50 years.
- 3- The software used for calculations is SAP2000 V14
- 4- Applied loads:

a) Dead loads (G)

Structure's self weight

Dead loads on roofs

Dead loads of sloping cement layer

Dead loads of plastering layers

Dead loads of tiling and cement layers of floors

Dead loads of earth (terrain)

b) Live loads (P)

Underneath water pressure

Water pressure

Service loads

c) Seismic loads

STANDARTET E PROJEKTIMIT DHE NGARKESAT E APLIKUARA:

- 1- Kodet projektimit - Kodi Shqipitar KTP 89 dhe Eurocode.
- 2- Jetegjatesia e struktures - 50 vjet.
- 3- Programi i perdorur per llogaritje - SAP2000 V14
- 4- Ngarkesat e aplikuara:

a) Ngarkesat e perhereshme (G)

Pesha e struktures

Ngarkesa mi solete

Ngarkesae shtreses se cimentos

Ngarkesae shtreses sesuvaimit

Ngarkesae pllakave dhe strukturave te cimentos

Ngarkesae tokes

b) Forcat e jashteme (P)

Presioni i ujerave nentokesore

Presioni i ujit

Ngarkesae sherbimit

c) Ngarkesa sizmike

KUSHTET GJEOLOGO-INXHINIERIKE

Ne baze te raportit gjeologo-inxhinierik te hartuar nga ing. Gjon Leka ne Tetor 2017, strukturat jane llogaritur te mbeshtetura ne shtresen gjeologjike Nr. 2 me keto te dhena:

Perberja granulometrike		
Fraksioni argjilor	<0.002 mm	28.70 %
Fraksioni pluhuror	0.002-0.05 mm	49.60 %
Fraksioni rere	>0.05 mm	21.70 %

Pesha volumore ne gjendje natyrale	$\Delta = 2.0 \text{ T/m}^3$
Kendi Iferkimit te brendshem	$\varphi = 25^\circ$
Kohezion	$C = 0.35 \text{ kg/cm}^2$
Moduli i deformacionit	$E_{13} = 200 \text{ kg/cm}^2$
Ngarkesa e lejuar ne shtypje	$\sigma = 2.0 \text{ kg/cm}^2$

SHENIME TEKNIKE:

Gjate realizimit te punimeve konstruktive detyrimisht te perdoren pervec projektitkonstruktivedhe projektarkitektonikdhe teknologjikme qellimin e evitimit te gabimeve te mundshme ne zbatim.

Gjate realizimit te germimit te themeleve te merren masa per ruajtjen e qendrueshmerise se skarpatave, ne konsultim me konstruktorin dhe gjeologun.

Ne rastet e vendosjes se tabanit te themeleve ne shtresa gjeologjike te dobeta, duhet te realizohet perforcimi i tabanit pasi te jete hequr shtresa e dobet.

Me perfundimin e germimit, duhet te plotesohet proces-verbali i tabanit te themelit me prezenca te konstruktoritdhe gjeologut. Vetem pasi te jete plotesuar ky proces-verbal do te vazhdohet me realizimin e shtreses me zhavor te ngjeshur.

Ne rast se gjate zbatimit ndryshohen kuotat e sistemimit, detyrimisht duhen njoftuarprojektuesitper reflektimete nevojshme per mos cenimin e kushteve te punes se themelit.

Te realizohente gjitha detajetkonstruktivete dhenane projektduke u respektuar kushtet teknike te zbatimit.

Gjate realizimit te strukturavete lihen vrimat e instalimeve te tubave duke zbatuar detajet perforcuese te armimit te tyre.

1. Betoni i perdorur te jete i klases C 30/37klasa e ekspozimitXD2.
2. Hekuri qe do te perdoret te jete i tipit S 500.
3. Shtresa mbrojtese te mos jete me e vogel se vlera e treguar ne secilen flete te projektit.
4. Per shufrat me gjatesi variabel ne tabelte eshte marre gjatesia mesatare e tyre.
5. Ne rast mosperputhjeje te dimensioneve te behen verifikimet me dimensionet e arkitektures dhe te behen konsultime me grupin e projektimit.
6. Betoni i varfer i te jete i klases C12/15.
7. Zhavori i perdorur te jete i ruluar CBR=50%.
8. Toka natyrale poshte shtreses te zhavorit te ngjishet deri ne CBR=30%.
9. Grepat e stafave te inkastrohen ne beton duke i kthyer me kënd(45°).

TECHNICAL NOTES:

During the execution of the work must be consulted the architecturaland technological drawings besides structuraldrawings in order to avoid any possible mistake.

During the excavation for the foundationmust be taken care of slope stability, consulting both structural and geological engineers.

If during the execution of the work is found loose layer for supporting the foundation, the treatment of these layers must be applied, by replacing it.

The real condition of foundationsupportinglayer must be documented by site engineersandsigned by structuralandgeological engineers. After this documentationis completed, the execution work can continue with the gravel layer.

If case of changing the foundation and/or surrounding terrain levels, the structuralengineer must be notified in order to make the appropriatemodifications.

All given structuraldetails must be realized in accordancewith executional code requirements.

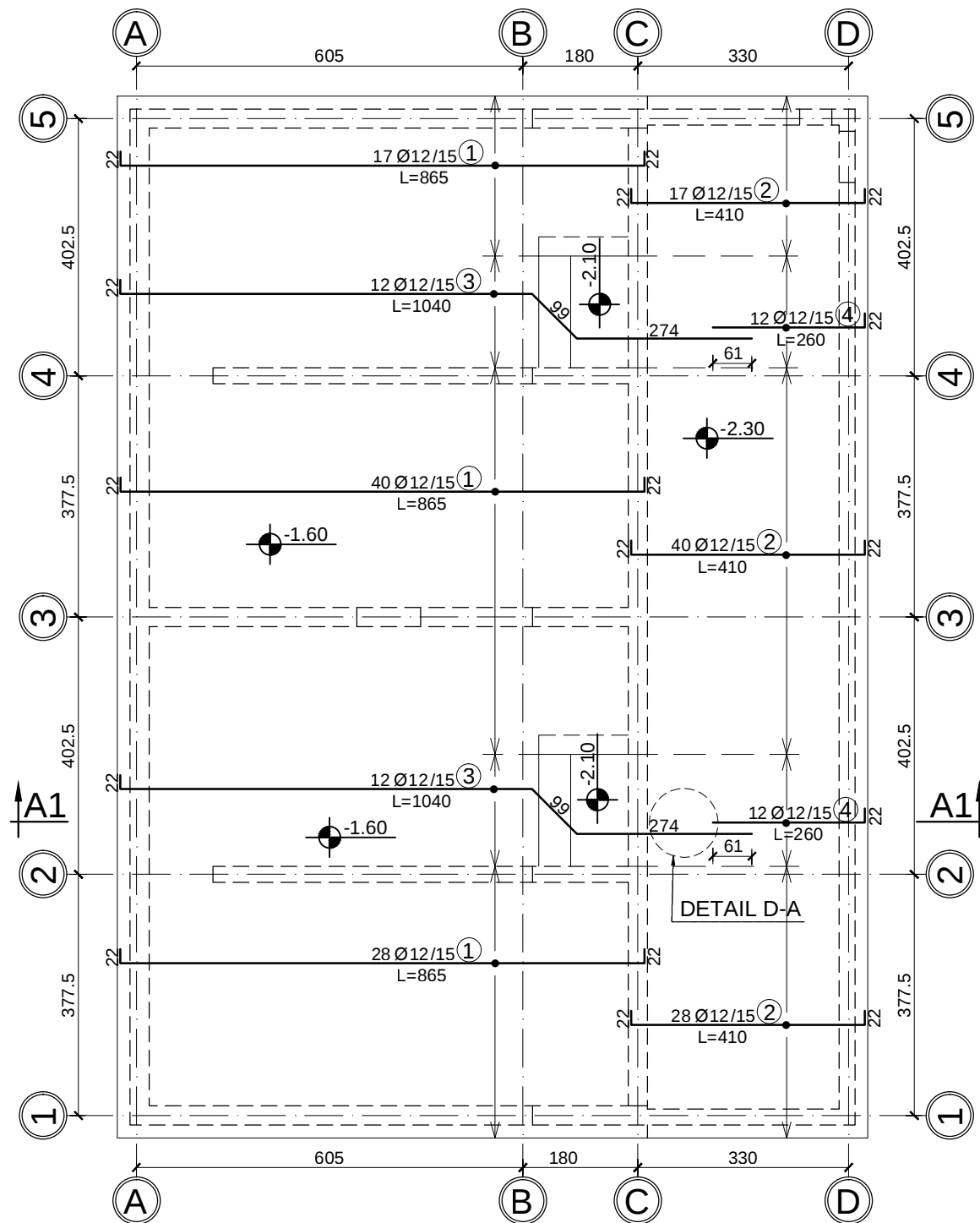
During the execution work pay attentionto the pipe holes and apply correctlythe details of opening reinforcements.

1. Concrete class should be C30/37expozition class XD2.
2. Steel class should be S 500.
3. The concrete cover layer of the reinforcement shall not be less than the value showed on project pages.
4. For steel bars with variabel length for quantity is taken the average length.
5. In case of inconsistency of dimensions should verify them with architecture dimensions and should consult with project design team.
6. Lean concrete layer under plate should be C12/15.
7. Gravel should be compress by roller until CBR=50%.
8. Natural land under gravel layer should be compressed until CBR=30%.
- 9.The hooks of all stirrups must be bent (anchored) in concrete under a bent angle of 35°(45°).

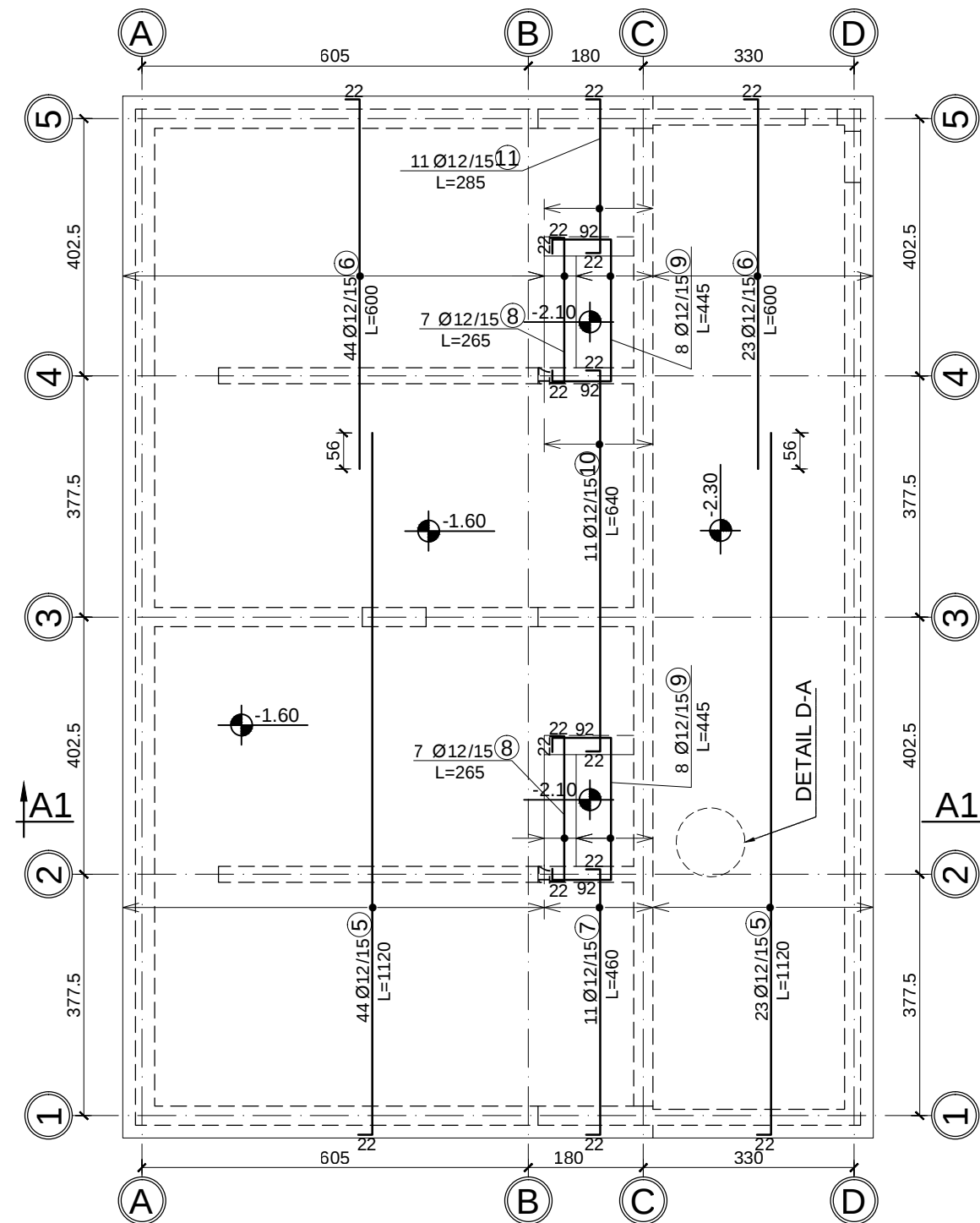
PROJECT: Rural Water Supply 3 - BMZ ID 2020 61 695 / Ujesjellesi Rural 3 - BMZ ID 2020 61 695 PROJEKTI: CONSULTING SERVICES FOR PROJECT PREPARATION AND FEASIBILITY STUDIES FOR CONSTRUCTION/RECONSTRUCTION OF WATER SUPPLY SYSTEMS IN RURAL AREAS SHERBIME KONSULENCE PER PERGATITJEN E PROJEKTEVE DHE STUDIMEVE TE FIZIBILITETIT PER NDERTIMIN/RINDERTIMIN E RRJETIT TE UJESJELLESIT NE ZONAT RURALE	CLIENT: KLIENTI: ALBANIAN DEVELOPMENT FUND FONDI SHQIPTAR I ZHVILLIMIT	ENGINEER: INXHINIER: CES Consulting Engineers Salzgitter GmbH Sub - Consultant: SE			SCALE: SHKALLA: -	
			02	FINAL	DECEMBER 2018	DATE: OCTOBER 2018 APPROVAL DATE: DECEMBER 2018
			01	DRAFT	OCTOBER 2018	FILE NAME: RWSIII-013.2QEP_DWG_WS-RES300m3_Structural.dwg EMRI DOK: RWSIII-013.2QEP_DWG_WS-RES300m3_Structural.dwg

Section a-a,

FOUNDATION LOWER REINFORCEMENT
LEVEL -1.60 ÷ -2.30 (direction 1), Sc. 1:100



FOUNDATION LOWER REINFORCEMENT
LEVEL -1.60 ÷ -2.30 (direction 2), Sc. 1:100



NOTE:

- The table of reinforcement is displayed on page K-07.
- Section A1-A1 is displayed on page K-07.

CONCRETE: C30/37
STEEL: S500
CONCRETE COVER: a=4cm

PROJECT: Rural Water Supply 3 - BMZ ID 2020 61 695 / Ujesjellesi Rural 3 - BMZ ID 2020 61 695

PROJEKTI: CONSULTING SERVICES FOR PROJECT PREPARATION AND FEASIBILITY STUDIES FOR CONSTRUCTION/RECONSTRUCTION OF WATER SUPPLY SYSTEMS IN RURAL AREAS
SHERBIME KONSULENCE PER PERGATITJEN E PROJEKTEVE DHE STUDIMEVE TE FIZIBILITETIT PER NDERTIMIN/RINDERTIMIN E RRJETIT TE UJESJELLESIT NE ZONAT RURALE

TITLE: RESERVOIR 300 M³, FOUNDATION LOWER REINFORCEMENT
TITULLI: REZERVUARI 300 M³, PLLAKA E THEMELIT (zgara e poshtme)

CLIENT:
KLIENTI:



ALBANIAN DEVELOPMENT FUND
FONDI SHQIPTAR I ZHVILLIMIT

FUNDING:
FINANCUESI:



KFW

ENGINEER: INXHIINIER:

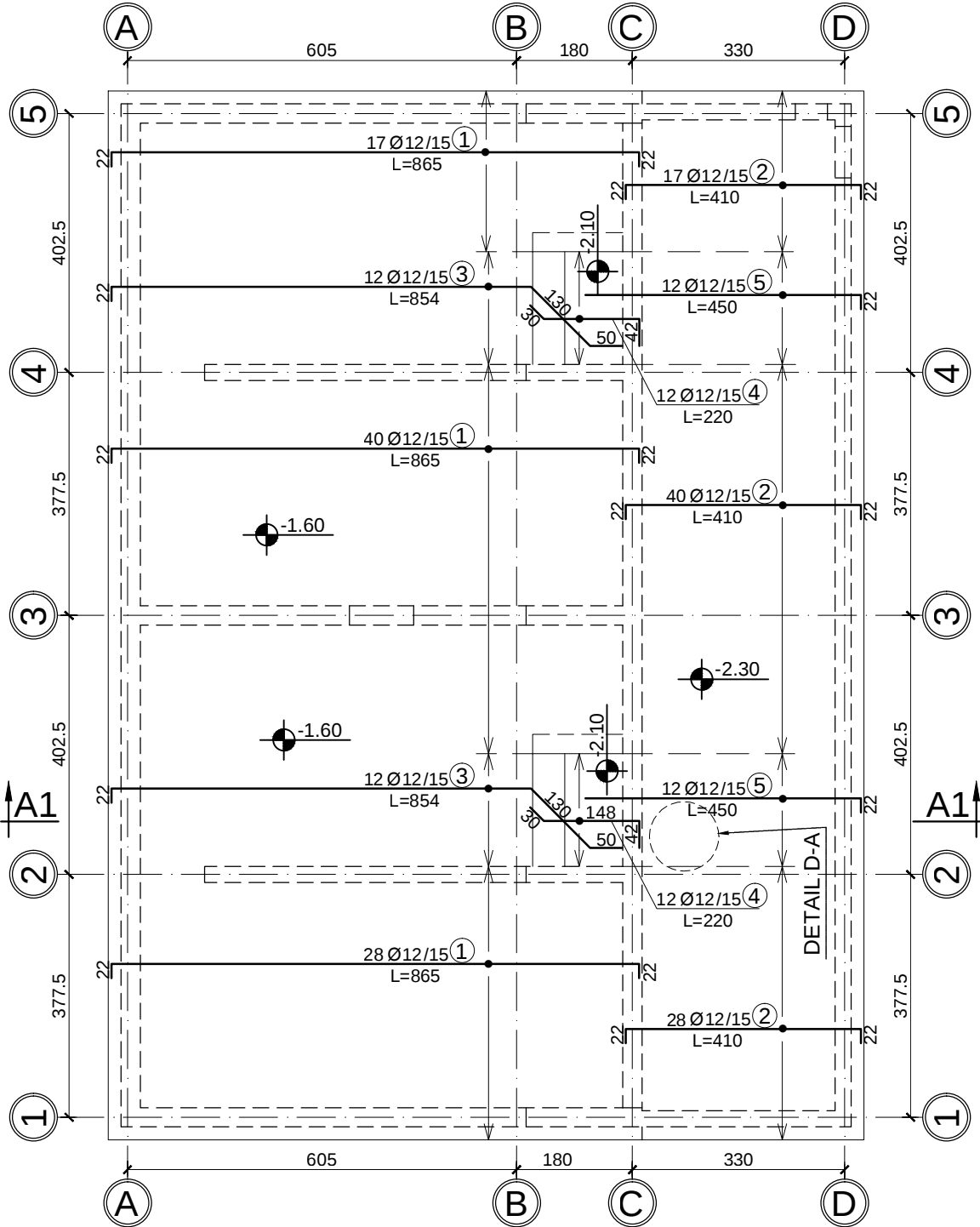
CES
Consulting Engineers
Salzgitter GmbH

Sub - Consultant:

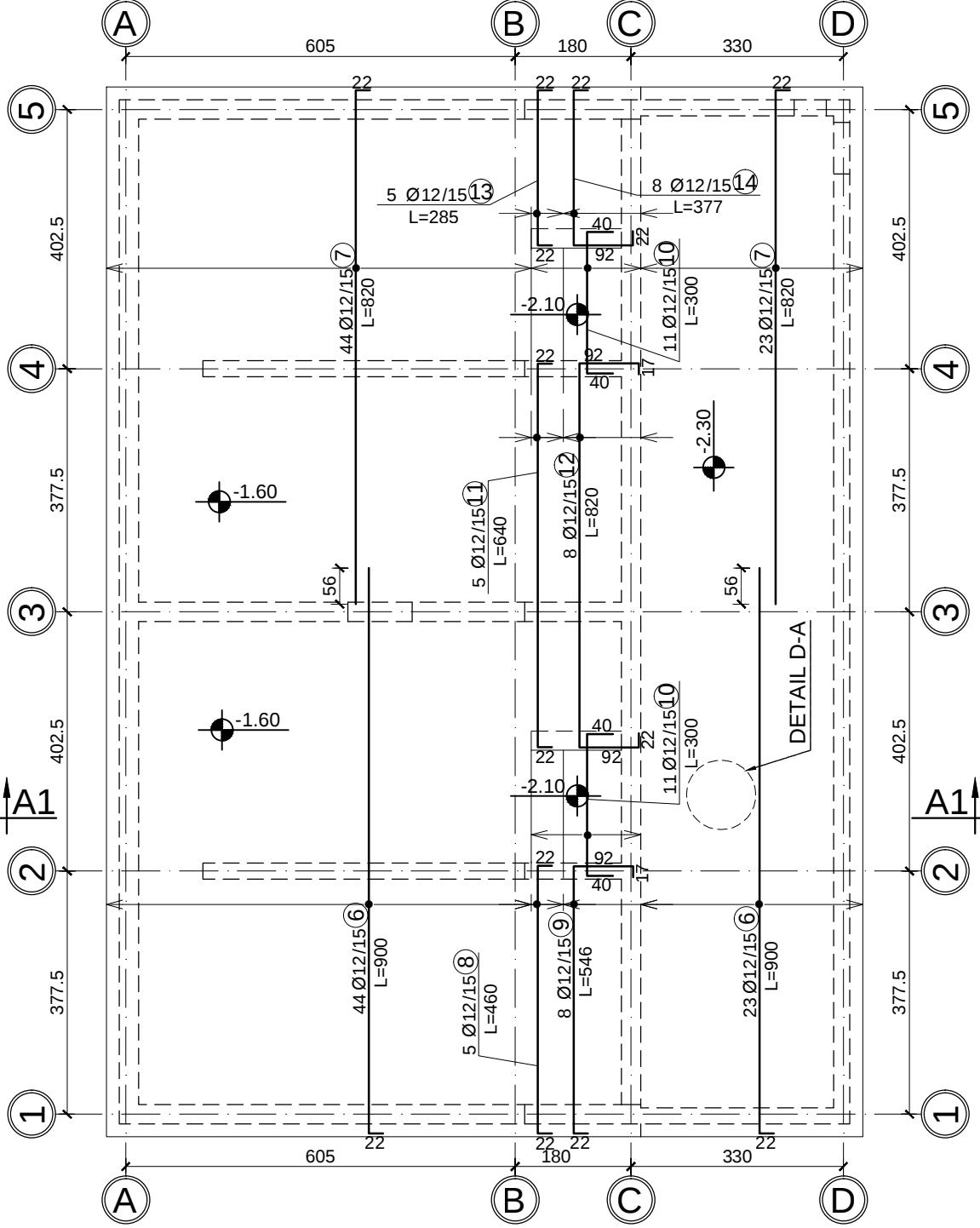


No. Rev	DESCRIPTION OF REVISION	DATE	SCALE: SHKALLA:
			1:100
02	FINAL	DECEMBER 2018	DATE: OCTOBER 2018
01	DRAFT	OCTOBER 2018	APPROVAL DATE: <i>[Signature]</i> DECEMBER 2018
FILE NAME: RWSIII-013.2QEP_DWG_WS-RES300m3_Structural.dwg			DWG NO.:
DWG NO.:			NR. VIZATIMIT:
RWSIII-013.2QEP-DWG-RES 300m3-Str-05			

FOUNDATION UPPER REINFORCEMENT
LEVEL -1.60 ÷ -2.30 (direction 1), Sc. 1:100



FOUNDATION UPPER REINFORCEMENT
LEVEL -1.60 ÷ -2.30 (direction 2), Sc. 1:100



- NOTE:
1. The table of reinforcement is displayed on page K-07.
 2. Section A1-A1 is displayed on page K-07.

CONCRETE: C30/37
STEEL: S500
CONCRETE COVER: a=4cm

PROJECT: Rural Water Supply 3 - BMZ ID 2020 61 695 / Ujesjellesi Rural 3 - BMZ ID 2020 61 695 PROJEKTI: CONSULTING SERVICES FOR PROJECT PREPARATION AND FEASIBILITY STUDIES FOR CONSTRUCTION/RECONSTRUCTION OF WATER SUPPLY SYSTEMS IN RURAL AREAS SHERBIME KONSULENCE PER PERGATITJEN E PROJEKTEVE DHE STUDIMEVE TE FIZIBILITETIT PER NDERTIMIN/RINDERTIMIN E RRJETIT TE UJESJELLESIT NE ZONAT RURALE			CLIENT: KLIENTI:  ALBANIAN DEVELOPMENT FUND FONDI SHQIPTAR I ZHVILLIMIT			ENGINEER: INXHIINIER:  CES Consulting Engineers Salzgitter GmbH			SCALE: SHKALLA: 1:100		
TITLE: TITULLI: RESERVOIR 300 M³, FOUNDATION UPPER REINFORCEMENT REZERVUARI 300 M³, PLLAKA E THEMELIT (zgara e sipërme)			FUNDING: FINANCIUESI:   			Sub - Consultant: 			DATE: DECEMBER 2018		
									APPROVAL DATE:  OCTOBER 2018		
									FILE NAME: RWSIII-013.2QEP_DWG_WS-RES300m3_Structural.dwg		
									DWG NO. NR. VIZATIMIT: RWSIII-013.2QEP-DWG-RES 300m3-Str-06		
									DESCRIPTION OF REVISION		
									DATE		
									02 FINAL		
									01 DRAFT		
									No. Rev		

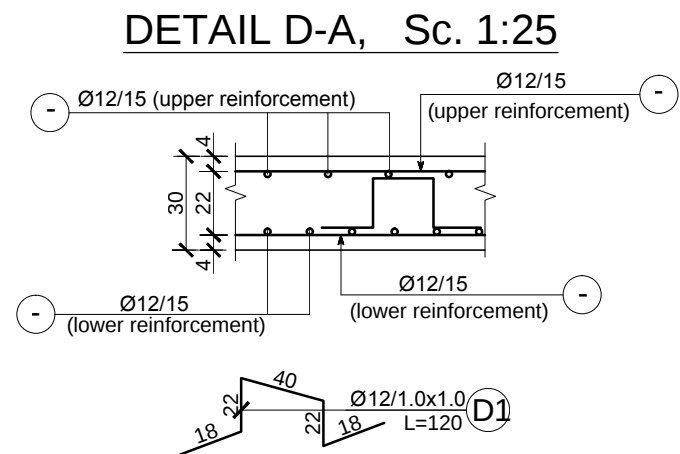
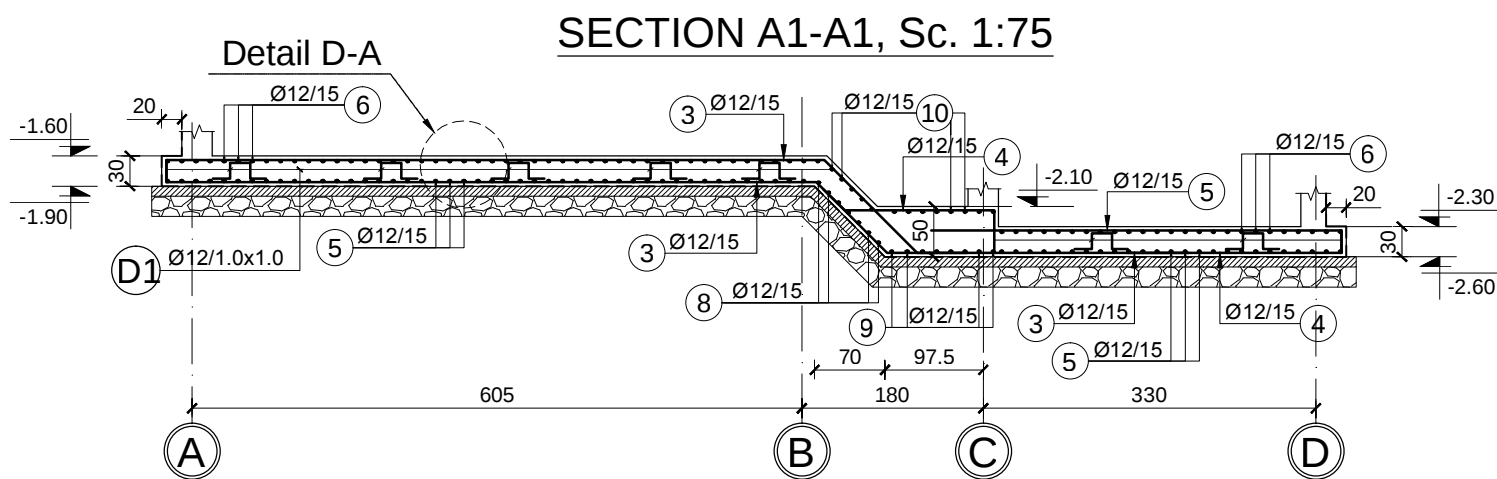


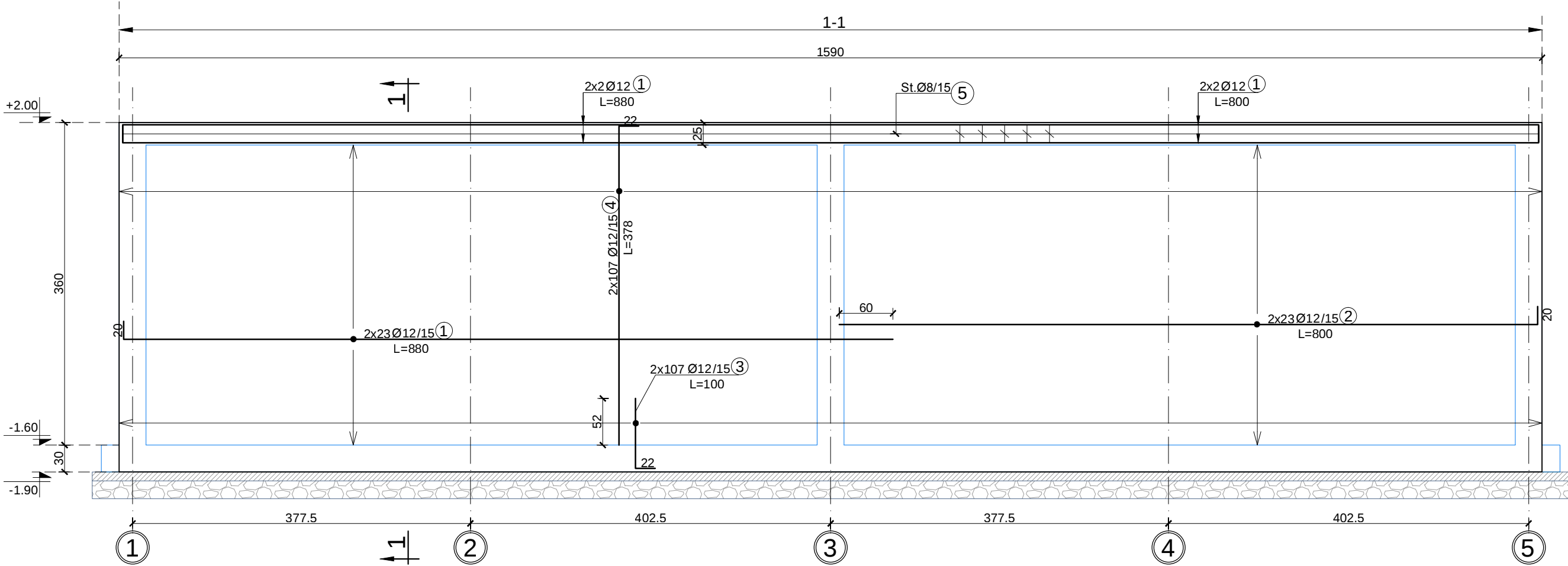
TABELA E SPECIFIKIMIT TE ARMATURES / TABLE OF REINFORCEMENT									
Lloji Type	Sasia Pieces	Poz. Element	d	l (cm)	cope quantity	L (m)	Pesha/nj weight/unit	Pesha / Weight	TOTALI/ TOTAL
Pllaka e themelit / Foundation (zgara e poshtme / lower reinforcement)	1	1	12	865	85	735.3	0.888	652.77	652.77
		2	12	410	85	348.5	0.888	309.40	309.40
		3	12	1040	24	249.6	0.888	221.60	221.60
		4	12	260	24	62.40	0.888	55.40	55.40
		5	12	1120	67	750	0.888	666.22	666.22
		6	12	600	67	402	0.888	356.90	356.90
		7	12	460	11	50.6	0.888	44.92	44.92
		8	12	265	14	37.1	0.888	32.94	32.94
		9	12	445	16	71.2	0.888	63.21	63.21
		10	12	640	11	70.4	0.888	62.50	62.50
		11	12	285	11	31.4	0.888	27.83	27.83
		D1	12	120	192	230.4	0.888	204.55	204.55
									2698.25

TABELA E SPECIFIKIMIT TE ARMATURES / TABLE OF REINFORCEMENT									
Lloji Type	Sasia Pieces	Poz. Element	d	l (cm)	cope quantity	L (m)	Pesha/nj weight/unit	Pesha / Weight	TOTALI/ TOTAL
Pllaka e themelit / Foundation (zgara e sipërme / upper reinforcement)	1	1	12	865	85	735.3	0.888	652.77	652.77
		2	12	410	85	348.5	0.888	309.40	309.40
		3	12	854	24	205.0	0.888	181.97	181.97
		4	12	220	24	52.8	0.888	46.88	46.88
		5	12	450	24	108	0.888	95.88	95.88
		6	12	900	67	603	0.888	535.35	535.35
		7	12	820	67	549	0.888	487.77	487.77
		8	12	460	5	23	0.888	20.42	20.42
		9	12	546	8	43.68	0.888	38.78	38.78
		10	12	300	22	66	0.888	58.60	58.60
		11	12	640	5	32.00	0.888	28.41	28.41
		12	12	820	8	65.60	0.888	58.24	58.24
		13	12	285	5	14.25	0.888	12.65	12.65
		14	12	377	8	30.16	0.888	26.78	26.78
									2553.89

CONCRETE: C30/37
STEEL: S500
CONCRETE COVER: a=4cm

PROJECT: Rural Water Supply 3 - BMZ ID 2020 61 695 / Ujesjellesi Rural 3 - BMZ ID 2020 61 695 PROJEKTI: CONSULTING SERVICES FOR PROJECT PREPARATION AND FEASIBILITY STUDIES FOR CONSTRUCTION/RECONSTRUCTION OF WATER SUPPLY SYSTEMS IN RURAL AREAS SHERBIME KONSULENCE PER PERGATITJEN E PROJEKTEVE DHE STUDIMEVE TE FIZIBILITETIT PER NDERTIMIN/RINDERTIMIN E RRJETIT TE UJESJELLESIT NE ZONAT RURALE TITLE: RESERVOIR 300 M³, SECTION A1-A1. TABLE OF REINFORCEMENT TITULLI: REZERVUARI 300 M³, PRERJA A1-A1. TABELA E HEKURIT	CLIENT: KLIENTI: 
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RC wall A, Sc. 1:50



Section 1-1, sc. 1:50

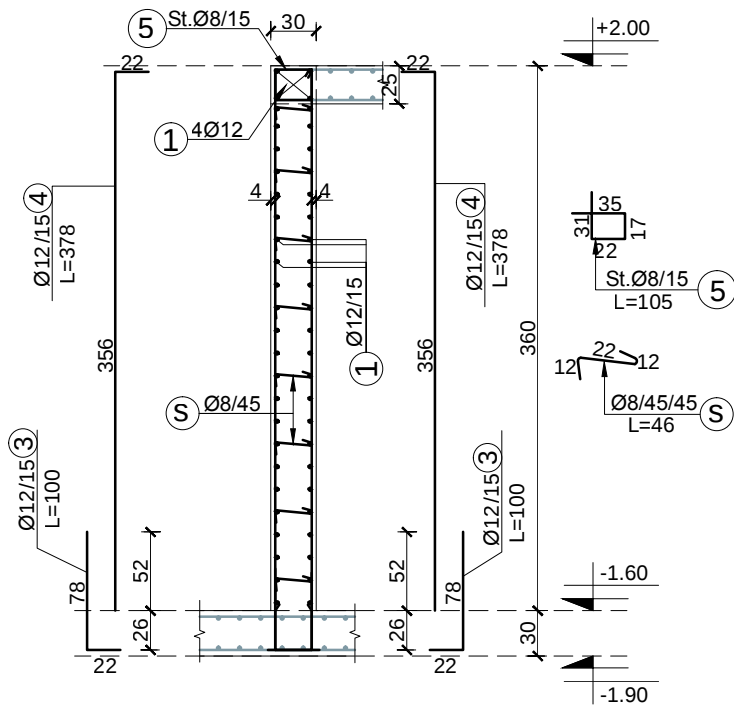
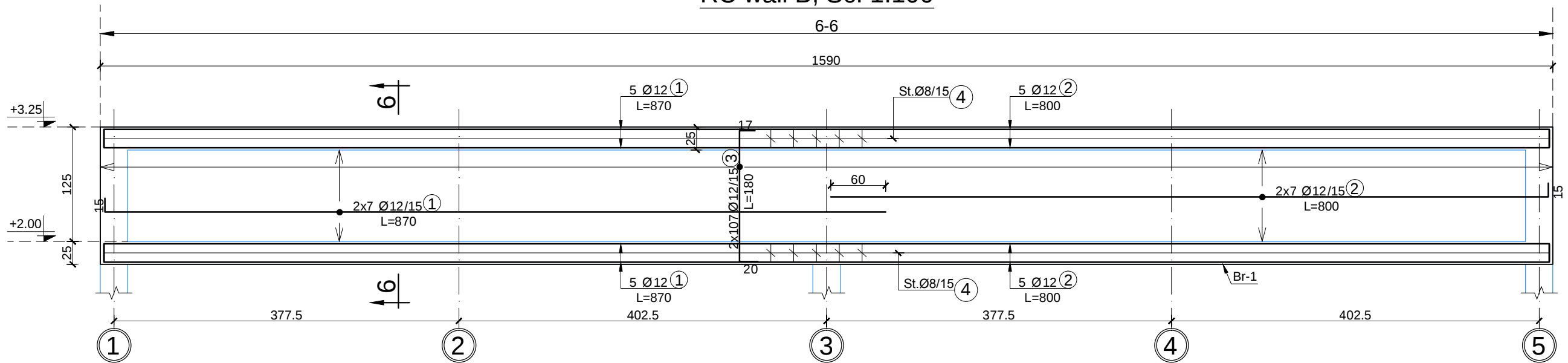


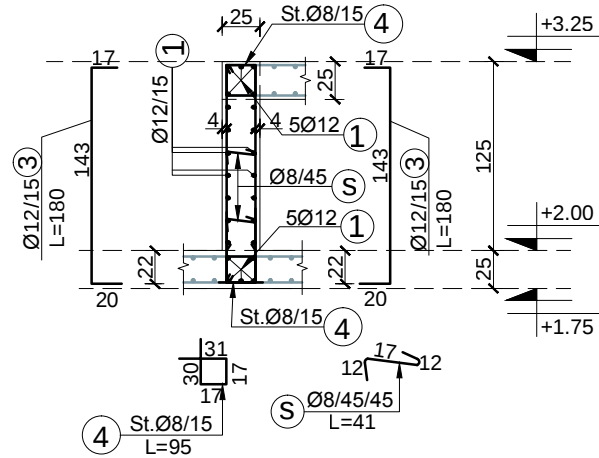
TABELA E SPECIFIKIMIT TE ARMATURES / TABLE OF REINFORCEMENT									
Lloji Type	Sasia Pieces	Poz. Element	d	l (cm)	cope quantity	L (m)	Pesha/nj weight/unit	Pesha / Weight	TOTALI/ TOTAL
RC wall A	1	1	12	880	50	440.00	0.888	390.64	390.64
		2	12	800	50	400.00	0.888	355.13	355.13
		3	12	100	214	214.00	0.888	189.99	189.99
		4	12	378	214	808.92	0.888	718.17	718.17
		5	8	105	107	112.35	0.395	44.33	44.33
		s	8	46	283	130.18	0.395	51.37	51.37
									1749.63

CONCRETE: C30/37
STEEL: S500
CONCRETE COVER: a=4cm

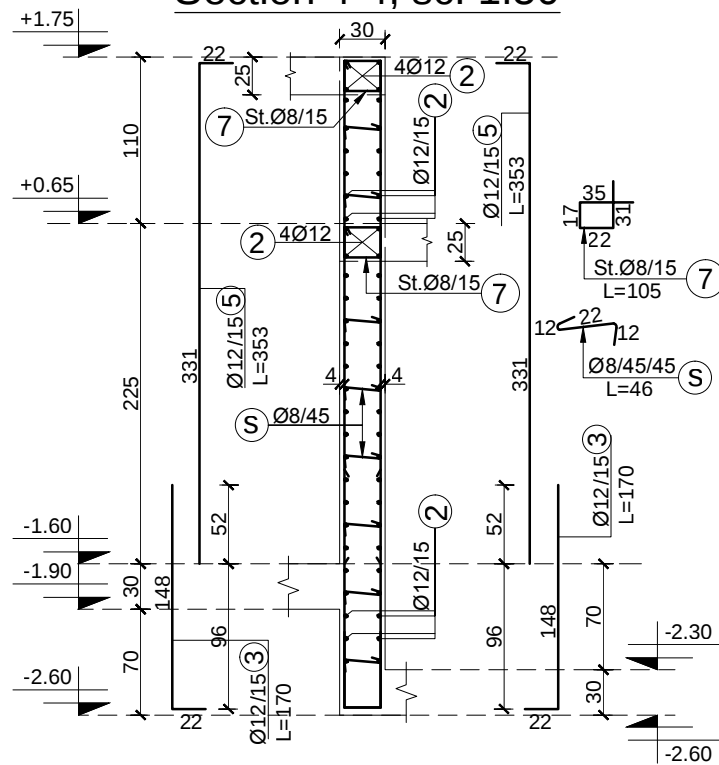
RC wall B, Sc. 1:100



Section 6-6, sc. 1:50



Section 4-4, sc. 1:50



Section 5-5, sc. 1:50

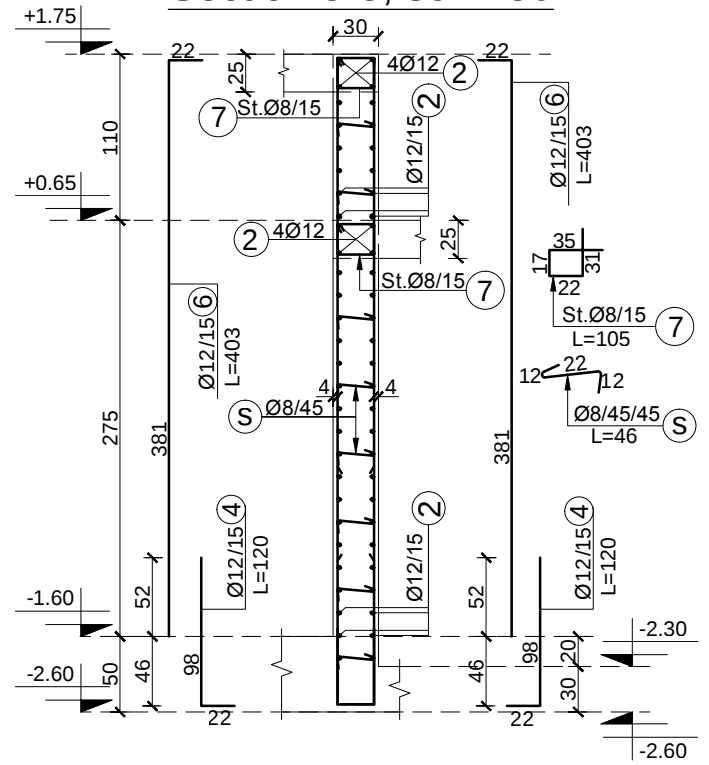


TABELA E SPECIFIKIMIT TE ARMATURES / TABLE OF REINFORCEMENT								
Lloji Type	Sasia Pieces	Poz. Element	d	l (cm)	cope quantity	L (m)	Pesha/nj weight/unit	Pesha / Weight
RC wall B	1	1	12	870	24	208.80	0.888	185.38
		2	12	800	24	192.00	0.888	170.46
		3	12	180	214	385.20	0.888	341.99
		4	8	95	214	203.30	0.395	80.22
		s	8	41	71	29.11	0.395	11.49
								789.53

CONCRETE: C30/37
STEEL: S500
CONCRETE COVER: a=4cm

PROJECT: Rural Water Supply 3 - BMZ ID 2020 61 695 / Ujesjellesi Rural 3 - BMZ ID 2020 61 695 PROJEKTI: CONSULTING SERVICES FOR PROJECT PREPARATION AND FEASIBILITY STUDIES FOR CONSTRUCTION/RECONSTRUCTION OF WATER SUPPLY SYSTEMS IN RURAL AREAS SHERBIME KONSULENCE PER PERGATITJEN E PROJEKTEVE DHE STUDIMEVE TE FIZIBILITETIT PER NDERTIMIN/RINDERTIMIN E RRJETIT TE UJESJELLESIT NE ZONAT RURALE			CLIENT: KLIENTI:  ALBANIAN DEVELOPMENT FUND FONDI SHQIPTAR I ZHVILLIMIT			ENGINEER: INXHIINIER:  CES Consulting Engineers Salzgitter GmbH			SCALE: SHKALLA: 1:50		
TITLE: TITULLI: RESERVOIR 300 M³, RC WALL B REZERVUARI 300 M³, MURI B/A B			FUNDING: FINANCIUESI:   			Sub - Consultant: 			02	FINAL	DECEMBER 2018
									01	DRAFT	OCTOBER 2018
									No. Rev	DESCRIPTION OF REVISION	DATE

RC wall C, Sc. 1:50

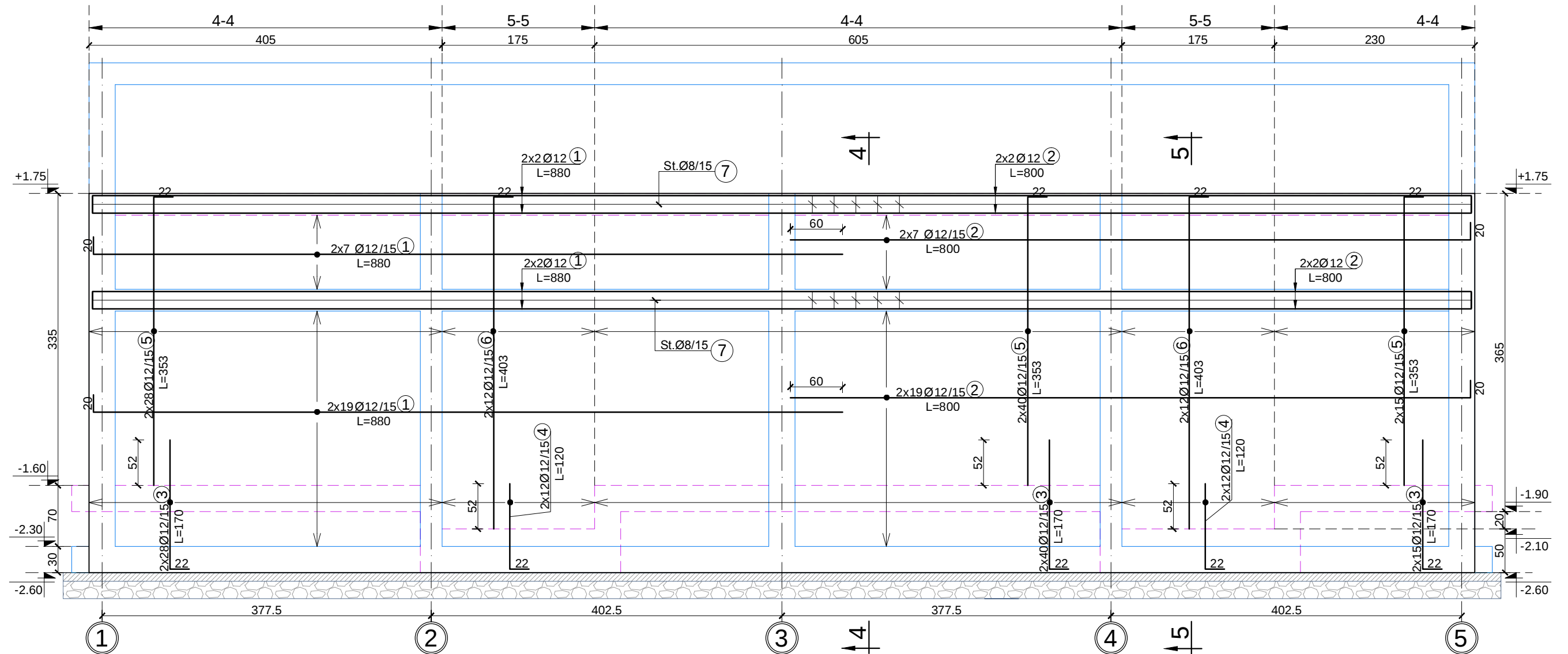


TABELA E SPECIFIKIMIT TE ARMATURES / TABLE OF REINFORCEMENT									
Lloji	Sasia	Poz.	d	l (cm)	cope	L (m)	Pesha/nj	Pesha /	TOTALI/
Type	Pieces	Element			quantity		weight/unit	Weight	TOTAL
RC wall C	1	1	12	880	60	528.00	0.888	468.77	468.77
		2	12	800	60	480.00	0.888	426.15	426.15
		3	12	170	166	282.20	0.888	250.54	250.54
		4	12	120	48	57.60	0.888	51.14	51.14
		5	12	353	166	585.98	0.888	520.24	520.24
		6	12	403	48	193.44	0.888	171.74	171.74
		7	8	105	214	224.70	0.395	88.66	88.66
		s	8	46	283	130.18	0.395	51.37	51.37
									2028.61

NOTE:
Sections 4-4 and 5-5 are displayed on page K-13.

CONCRETE: C30/37
STEEL: S500
CONCRETE COVER: a=4cm

TABELA E SPECIFIKIMIT TE ARMATURES / TABLE OF REINFORCEMENT									
Lloji Type	Sasia Pieces	Poz. Element	d	l (cm)	cope quantity	L (m)	Pesha/nj weight/unit	Pesha / Weight	TOTAL/ TOTAL
Slab level +0.65 ÷ +2.00 (lower reinforcement)	1	1	10	525	100	525.00	0.617	323.68	323.68
		2	10	390	90	351.00	0.617	216.41	216.41
		3	10	285	10	28.50	0.617	17.57	17.57
		4	10	800	29	232.00	0.617	143.04	143.04
		5	10	880	29	255.20	0.617	157.34	157.34
		6	10	480	15	72.00	0.617	44.39	44.39
		7	10	1200	20	240.00	0.617	147.97	147.97
		8	10	140	5	7.00	0.617	4.32	4.32
		9	10	230	5	11.50	0.617	7.09	7.09
		D1	12	100	108	108.00	0.888	95.88	95.88
									1157.69
Slab level +0.65 ÷ +2.00 (upper reinforcement)	1	1	10	525	100	525.00	0.617	323.68	323.68
		2	10	390	90	351.00	0.617	216.41	216.41
		3	10	285	10	28.50	0.617	17.57	17.57
		4	10	600	44	264.00	0.617	162.77	162.77
		5	10	1080	49	529.20	0.617	326.27	326.27
		6	10	140	5	7.00	0.617	4.32	4.32
		7	10	350	5	17.50	0.617	10.79	10.79
									1061.80

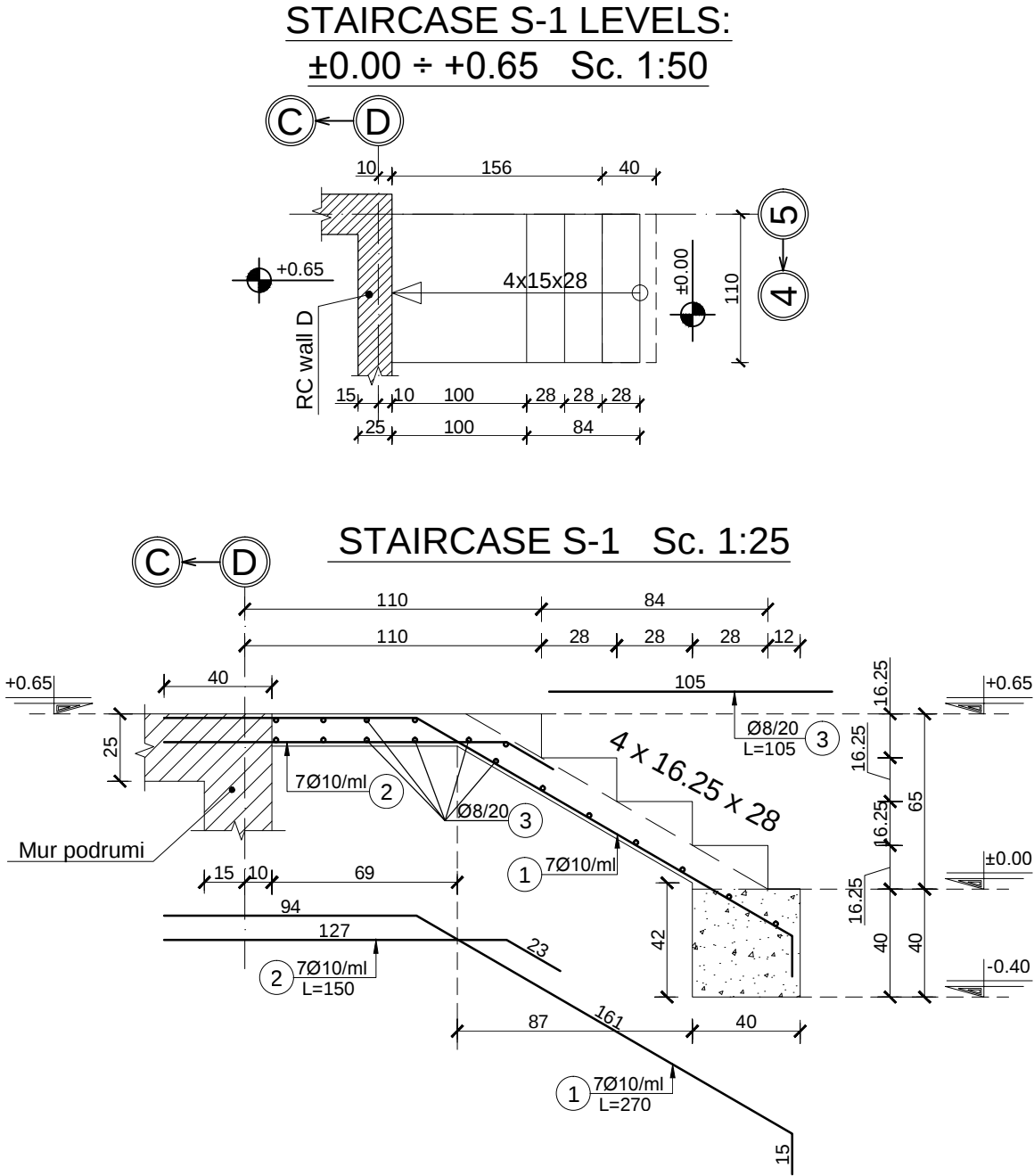


TABELA E SPECIFIKIMIT TE ARMATURES / TABLE OF REINFORCEMENT									
Lloji Type	Sasia Pieces	Poz. Element	d	l (cm)	cope quantity	L (m)	Pesha/nj weight/unit	Pesha / Weight	TOTAL/ TOTAL
S-1	1	1	10	270	8	21.6	0.617	13.32	13.32
		2	10	150	8	12	0.617	7.40	7.40
		3	8	105	17	17.85	0.395	7.04	7.04
									27.76

CONCRETE: C30/37
STEEL: S500
CONCRETE COVER: a=2.5cm

PROJECT: Rural Water Supply 3 - BMZ ID 2020 61 695 / Ujesjellesi Rural 3 - BMZ ID 2020 61 695 PROJEKTI: CONSULTING SERVICES FOR PROJECT PREPARATION AND FEASIBILITY STUDIES FOR CONSTRUCTION/RECONSTRUCTION OF WATER SUPPLY SYSTEMS IN RURAL AREAS SHERBIME KONSULENCE PER PERGATITJEN E PROJEKTEVE DHE STUDIMEVE TE FIZIBILITETIT PER NDERTIMIN/RINDERTIMIN E RRJETIT TE UJESJELLESIT NE ZONAT RURALE			CLIENT: KLIENTI:  ALBANIAN DEVELOPMENT FUND FONDI SHQIPTAR I ZHVILLIMIT			ENGINEER: INXHINIER:  CES Consulting Engineers Salzgitter GmbH Sub - Consultant: 			SCALE: SHKALLA: 1:50, 1:25		
TITLE: TITULLI: RESERVOIR 300 M³, STAIRCASE S-1 REZERVUARI 300 M³, SHKALLET S-1			FUNDING: FINANCIUESI:  								

OBJEKTI: ARMIMI I REZERVUARIT V=50m3
KONSTRUKTOR: AGIM SERANAJ

OBJECT: REINFORCEMENT OF RESERVOIR V=50m3
STRUCTURAL ENG.: AGIM SERANAJ

PROJEKTI KONSTRUKTIV

TABELA E FLETEVE

NR. I FLETES	EMERTIMI I FLETES
K-01	REZERVUARI 50++ M³, SHENIME TEKNIKE DHE KONSTRUKTIVE
K-02	REZERVUARI V=50m3 PLANI I THEMELEVE
K-03	REZERVUARI V=50m3 PAMJET E MUREVE B/A
K-04	REZERVUARI V=50m3 PLLAKA E THEMELIT (zgara e poshtme)
K-05	REZERVUARI V=50m3 PLLAKA E THEMELIT (zgara e siperme)
K-06	REZERVUARI V=50m3 MURI B/A 1
K-07	REZERVUARI V=50m3 MURI B/A 2
K-08	REZERVUARI V=50m3 MURI B/A 3
K-09	REZERVUARI V=50m3 MURI B/A A&B
K-10	REZERVUARI V=50m3 MURI B/A C
K-11	REZERVUARI V=50m3 MURI B/A D
K-12	REZERVUARI V=50m3 PLANET E STRUKTURAVE
K-13	REZERVUARI V=50m3 ARMIMI I SOLETES KUOTA +0.65/+2.00
K-14	REZERVUARI V=50m3 ARMIMI I SOLETES KUOTA +3.25. TRAU T-1
K-15	REZERVUARI V=50m3 SHKALLET S-1

DETAILED PROJECT

TABLE OF CONTENT

Page no.	PAGE TITLE
K-01	RESERVOIR V=50m3, TECHNICAL AND STRUCTURAL NOTES
K-02	RESERVOIR V=50m3, FOUNDATION PLAN
K-03	RESERVOIR V=50m3, RC WALLS VIEW
K-04	RESERVOIR V=50m3, FOUNDATION LOWER REINFORCEMENT
K-05	RESERVOIR V=50m3, FOUNDATION UPPER REINFORCEMENT
K-06	RESERVOIR V=50m3, RC WALL 1
K-07	RESERVOIR V=50m3, RC WALL 2
K-08	RESERVOIR V=50m3, RC WALL 3
K-09	RESERVOIR V=50m3, RC WALL A&B
K-10	RESERVOIR V=50m3, RC WALL C
K-11	RESERVOIR V=50m3, RC WALL D
K-12	RESERVOIR V=50m3, STRUCTURAL PLANS
K-13	RESERVOIR V=50m3, SLAB REINFORCEMENT LEVEL +0.65/+2.00
K-14	RESERVOIR V=50m3, SLAB REINFORCEMENT LEVEL +3.25. BEAM T-1
K-15	RESERVOIR V=50m3, STAIRCASE S-1

