

A	B	C	D	E	F	G	H	
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5

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2

1



CLIENT	AFGHANISTAN URBAN WATER SUPPLY AND SEWERAGE CORPORATION WASTE WATER MANAGEMENT DEPARTMENT
--------	--

SURVEYED BY	Eng. AKBARI & Eng. HASSAN
DESIGNED BY	_____
DRAWING BY	Eng. RABIA HUSSAINI
CHECKED BY	ENG.AHMAD MASOUD ZAFAR
APPROVED BY	Eng. RUHULLAH RASTAGAR

02	(100)% DESIGN SUBMITTAL	(02-12-1397)	APR	A	
01	()% DESIGN SUBMITTAL	()			
SYMBOL	DESCRIPTION	DATE	APR	CODE	

SHEET CONTENT/ DRAWING TITLE
PROVICE LOCATION
LOCATION
DARULAMAN

LOCATION
DARULAMAN

DARULAMA

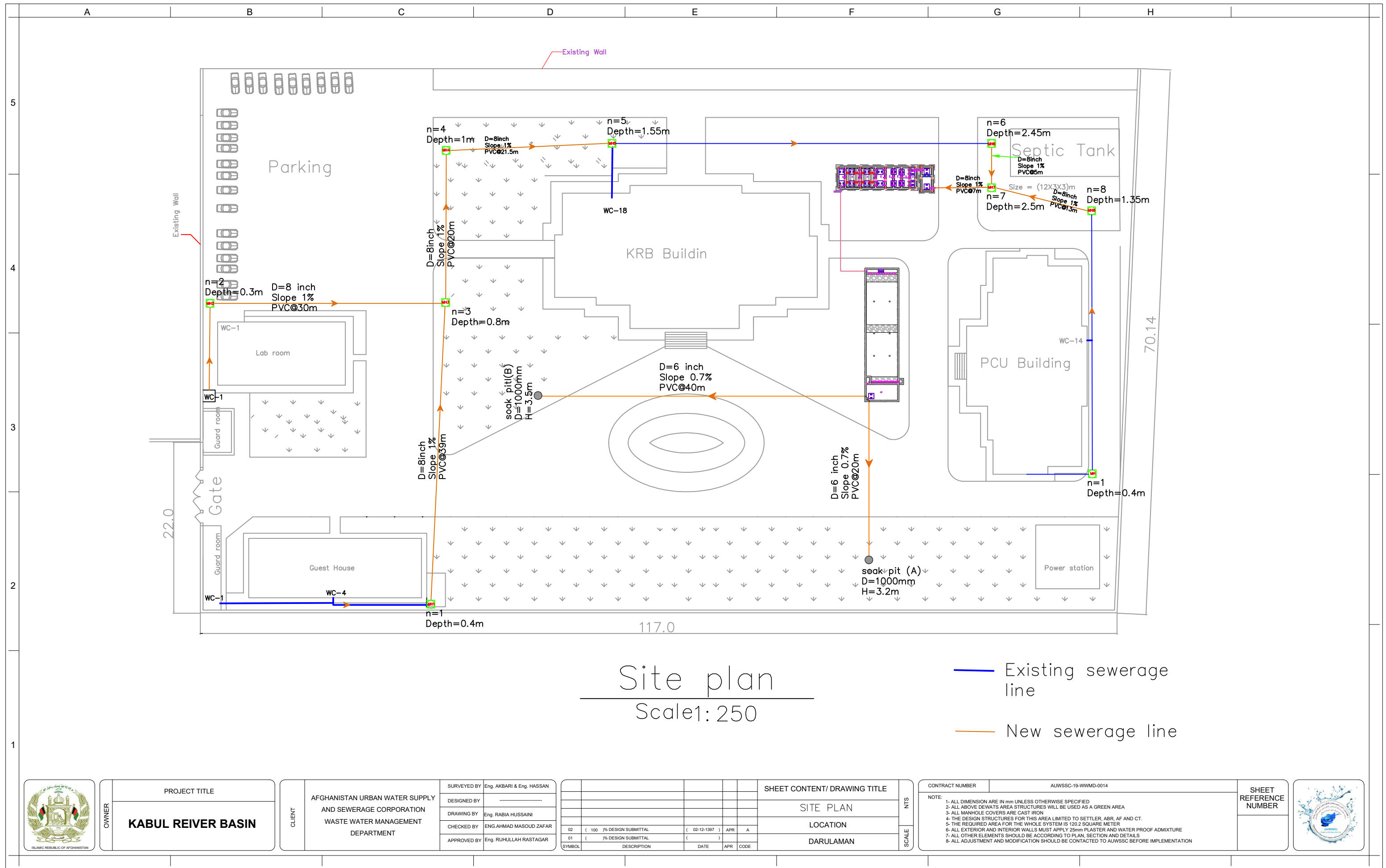
CONTRACT NUMBER	AUWSSC-19-WWMD-0014
NOTE: 1- ALL DIMENSION ARE IN mm UNLESS OTHERWISE SPECIFIED 2- ALL ABOVE DEWATS AREA STRUCTURES WILL BE USED AS A GREEN 3- ALL MANHOLE COVERS ARE CAST IRON 4- THE DESIGN STRUCTURES FOR THIS AREA LIMITED TO SETTLER, AT 5- THE REQUIRED AREA FOR THE WHOLE SYSTEM IS 120.2 SQUARE M 6- ALL EXTERIOR AND INTERIOR WALLS MUST APPLY 25mm PLASTER 7- ALL OTHER ELEMENTS SHOULD BE ACCORDING TO PLAN, SECTION 8- ALL ADJUSTMENT AND MODIFICATION SHOULD BE CONTACTED TO	

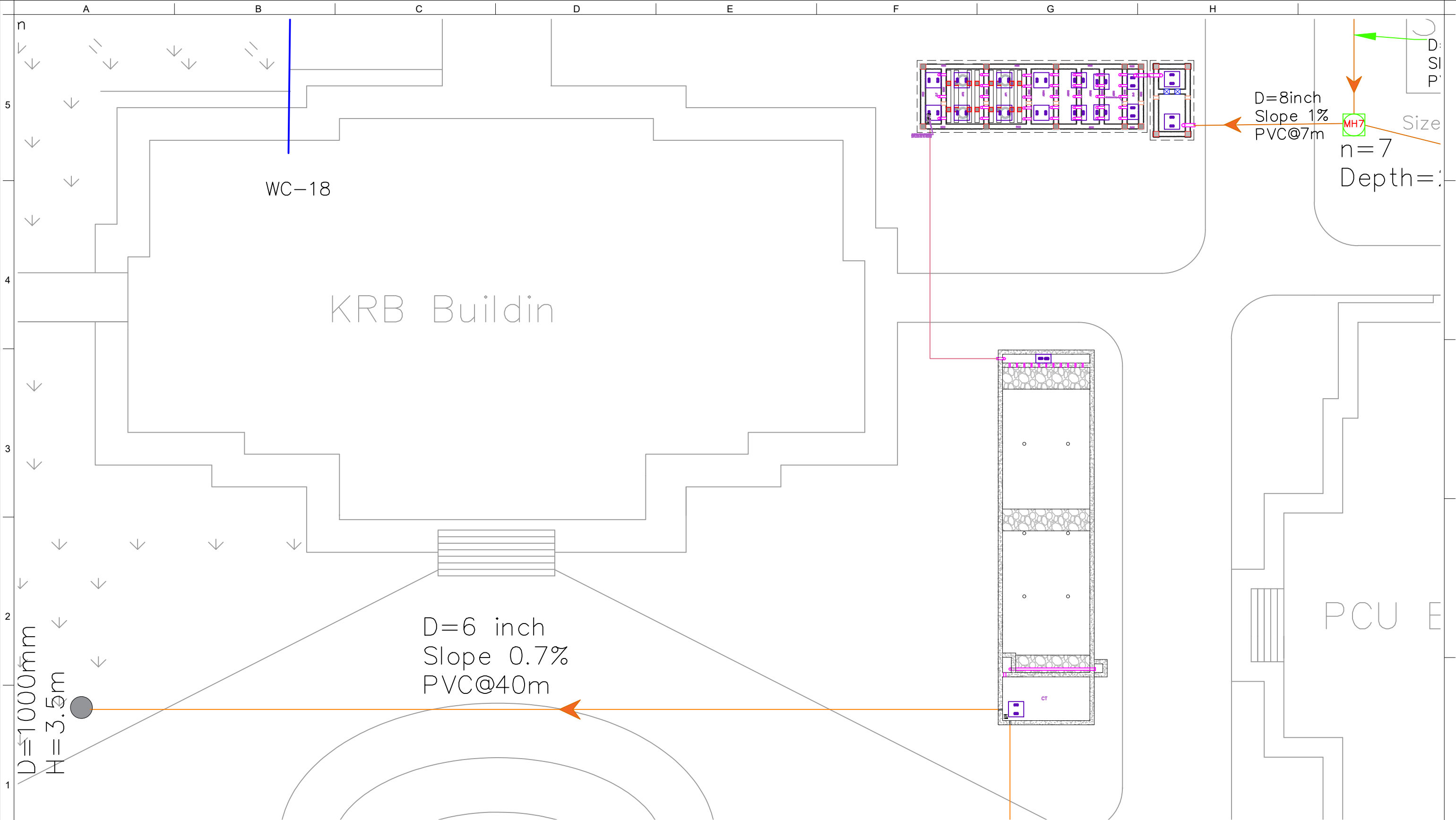
NOTE:

- 1- ALL DIMENSION ARE IN mm UNLESS OTHERWISE SPECIFIED
- 2- ALL ABOVE DEWATA AREA STRUCTURES WILL BE USED AS A GREEN AREA
- 3- ALL MANHOLE COVERS ARE CAST IRON
- 4- THE DESIGN STRUCTURES FOR THIS AREA LIMITED TO SETTLER, ABR, AF AND CT.
- 5- THE REQUIRED AREA FOR THE WHOLE SYSTEM IS 120.2 SQUARE METER
- 6- ALL EXTERIOR AND INTERIOR WALLS MUST APPLY 25mm PLASTER AND WATER PROOF ADMIXTURE
- 7- ALL OTHER ELEMENTS SHOULD BE ACCORDING TO PLAN, SECTION AND DETAILS
- 8- ALL ADJUSTMENT AND MODIFICATION SHOULD BE CONTACTED TO AIJWSSE BEFORE IMPLEMENTATION

	SHEET REFERENCE NUMBER
	PL PL-01







OWNER	PROJECT TITLE
	KABUL REIVER BASIN

CLIENT	AFGHANISTAN URBAN WATER SUPPLY AND SEWERAGE CORPORATION
	WASTE WATER MANAGEMENT DEPARTMENT

SURVEYED BY	Eng. AKBARI & Eng. HASSAN
DESIGNED BY	.....
DRAWING BY	Eng. RABIA HUSSAINI
CHECKED BY	ENG. AHMAD MASOUD ZAFAR
APPROVED BY	Eng. RUHULLAH RASTAGAR

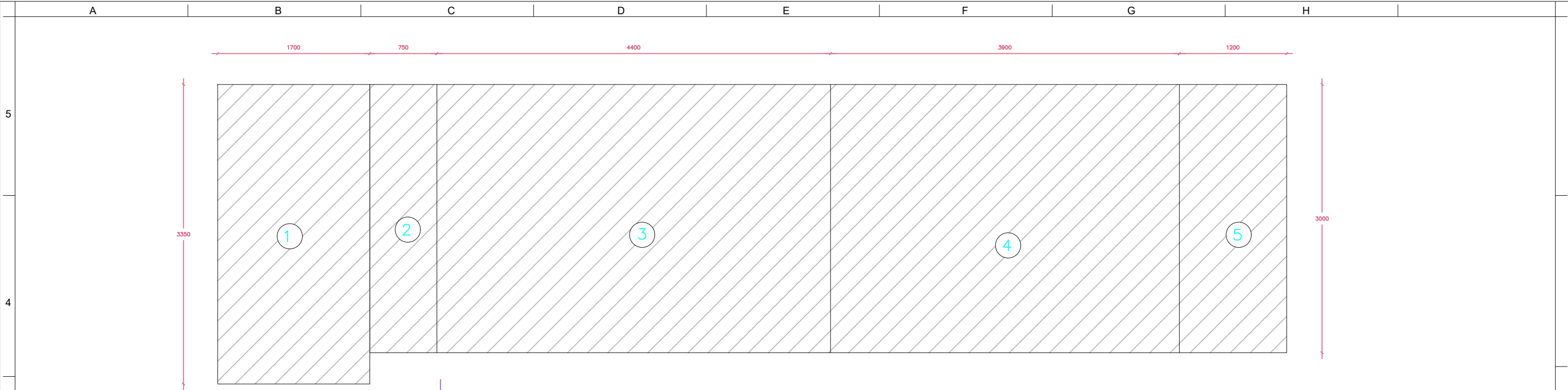
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01	() % DESIGN SUBMITTAL	()		
SYMBOL	DESCRIPTION	DATE	APR	CODE

SHEET CONTENT/ DRAWING TITLE	NTS
SITE PLAN	
LOCATION	
DARULAMAN	SCALE

CONTRACT NUMBER	AUWSSC-19-WWMD-0014
NOTE: 1- ALL DIMENSION ARE IN mm UNLESS OTHERWISE SPECIFIED 2- ALL ABOVE DEWATS AREA STRUCTURES WILL BE USED AS A GREEN AREA 3- ALL MANHOLE COVERS ARE CAST IRON 4- THE DESIGN STRUCTURES FOR THIS AREA LIMITED TO SETTLER, ABR, AF AND CT. 5- THE REQUIRED AREA FOR THE WHOLE SYSTEM IS 120.2 SQUARE METER 6- ALL EXTERIOR AND INTERIOR WALLS MUST APPLY 25mm PLASTER AND WATER PROOF ADMXTURE 7- ALL OTHER ELEMENTS SHOULD BE ACCORDING TO PLAN, SECTION AND DETAILS 8- ALL ADJUSTMENT AND MODIFICATION SHOULD BE CONTACTED TO AUWSSC BEFORE IMPLEMENTATION	

SHEET REFERENCE NUMBER	SP S0-02





SITE LAYOUT PLAN
SHEET NO | REF SCALE: 1:100

Finishing Schedule						
NO	Facility	Floor	Wall		Slab	Size
			INTERIOR	EXTERIOR		
1	SETTLER	RCC	CMU	RCC	RCC	L= 3.35m,W= 1.7m
2	DC	RCC	RCC		RCC	L=3m,W= 0.75m
3	ABR	RCC	RCC/CMU		RCC	L=3m ,W= 4.40m
4	AF	RCC	RCC/CMU		RCC	L=3m, W= 3.90m
5	COLLECTION TANK	RCC	RCC		RCC	L=3m,W= 1.20m



OWNER	PROJECT TITLE
	KABUL REIVER BASIN

CLIENT	AFGHANISTAN URBAN WATER SUPPLY AND SEWERAGE CORPORATION
	WASTE WATER MANAGEMENT DEPARTMENT

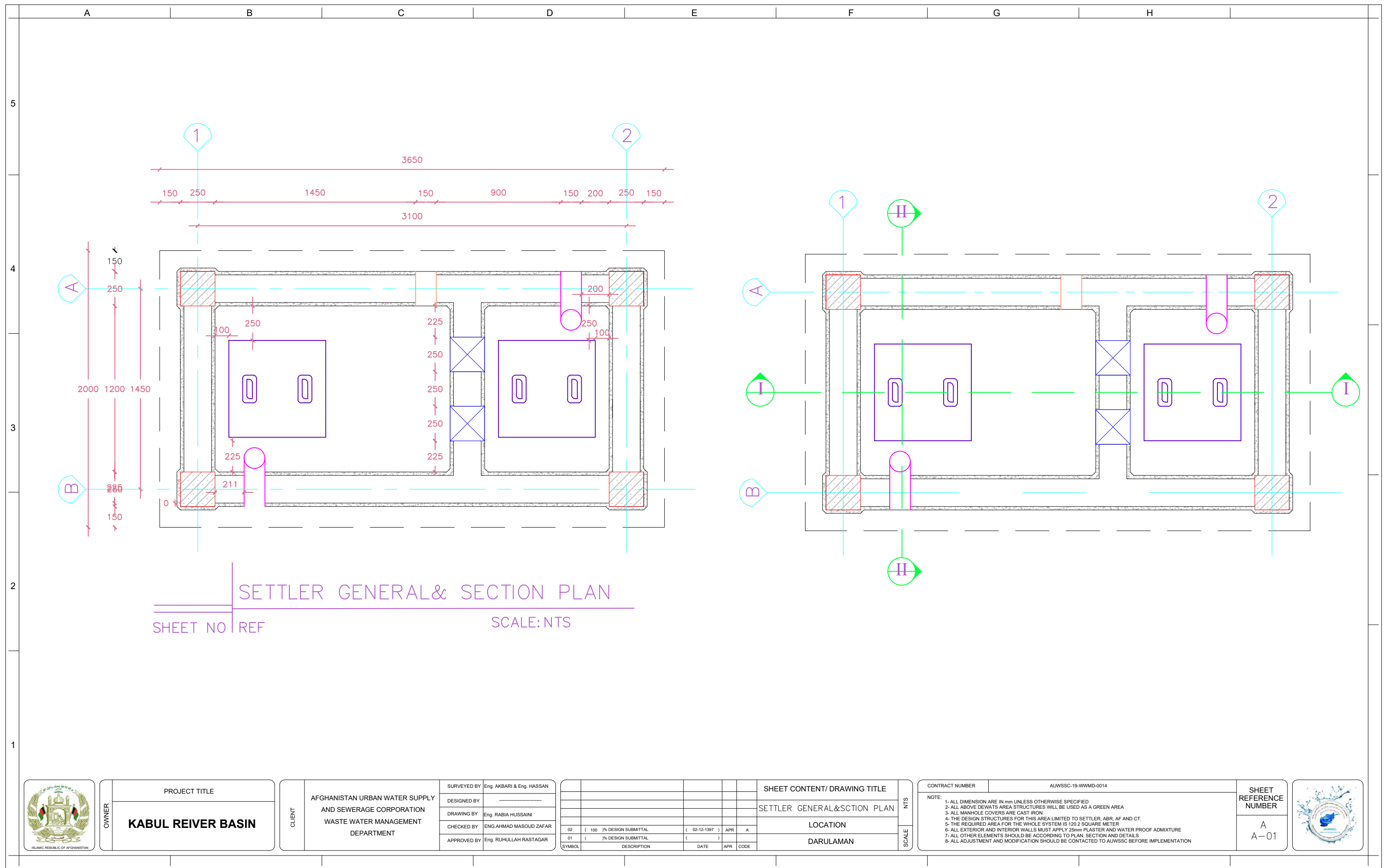
SURVEYED BY	Eng. AKBARI & Eng. HASSAN
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DRAWING BY	Eng. RABIA HUSSAINI
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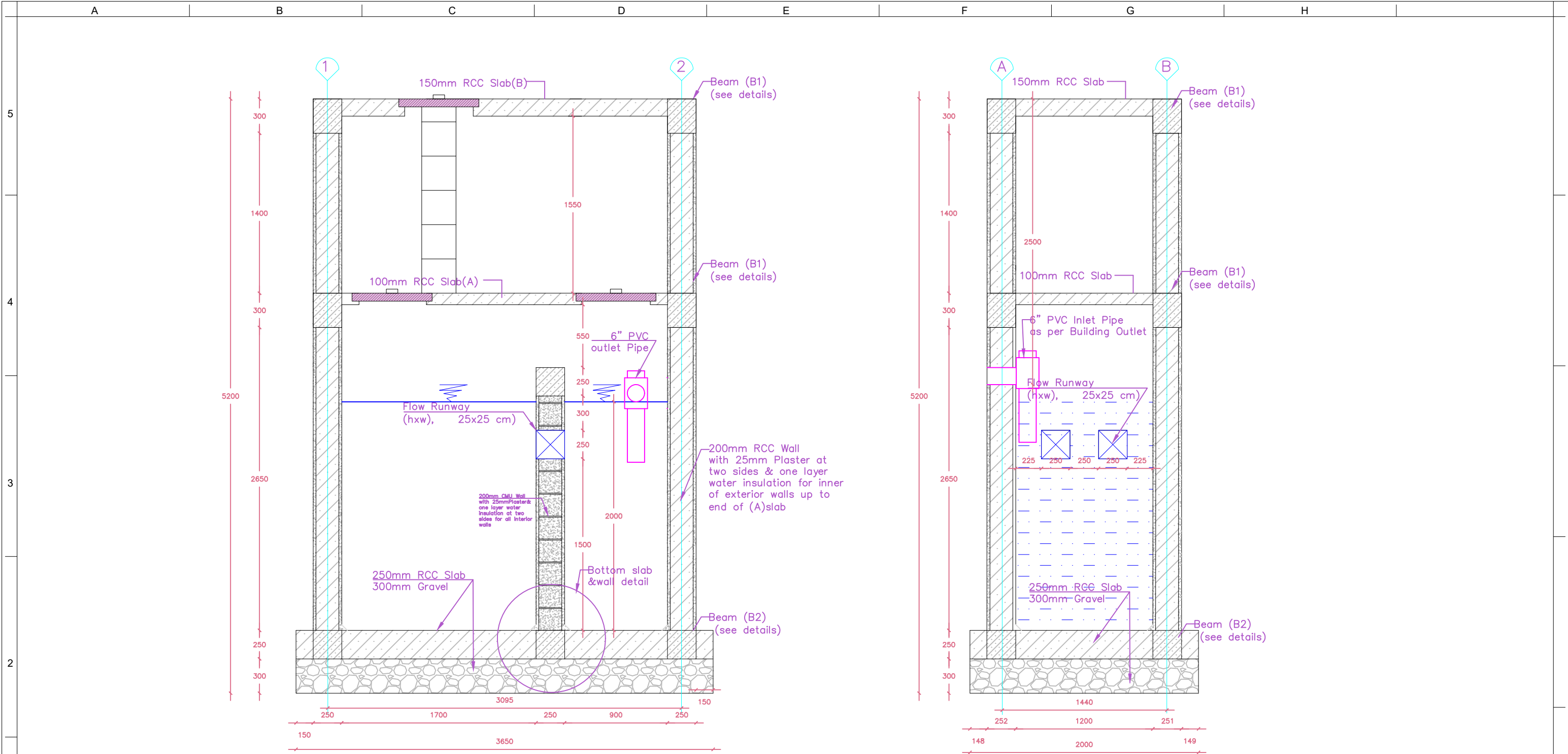
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SYMBOL	DESCRIPTION		DATE	APR	CODE				

SHEET CONTENT/ DRAWING TITLE		NTS
SITE LAYOUT		
LOCATION		SCALE
DARULAMAN		

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SHEET REFERENCE NUMBER	
SL SL-01	







SETTLER SECTION I&II
SHEET NO | REF SCALE: NTS



OWNER	PROJECT TITLE
	KABUL REIVER BASIN

CLIENT	AFGHANISTAN URBAN WATER SUPPLY AND SEWERAGE CORPORATION
	WASTE WATER MANAGEMENT DEPARTMENT

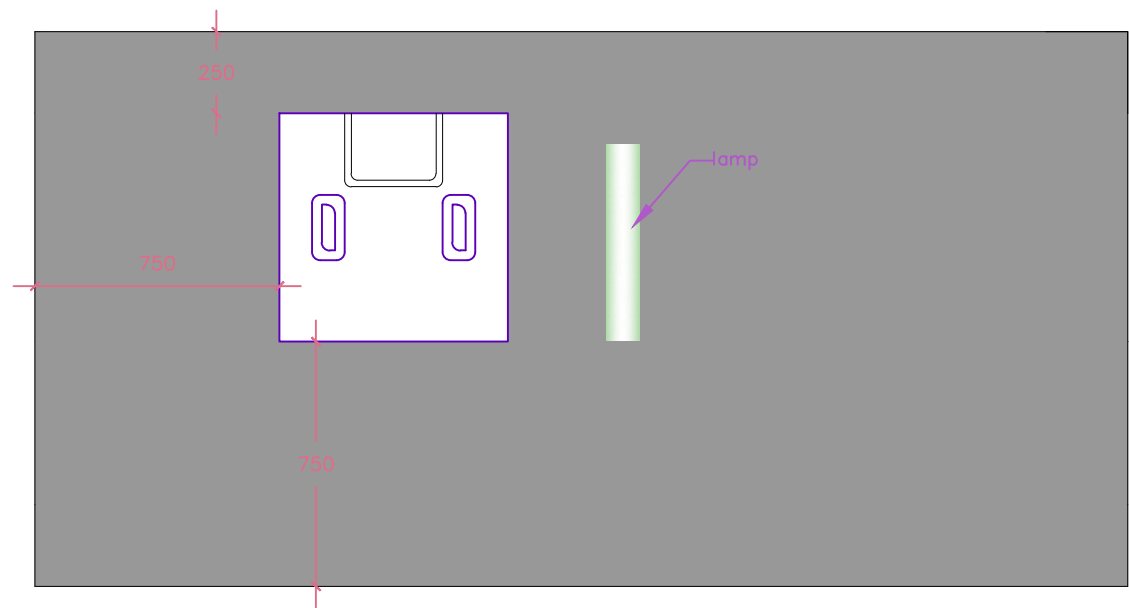
SURVEYED BY	Eng. AKBARI & Eng. HASSAN
DESIGNED BY	.....
DRAWING BY	Eng. RABIA HUSSAINI
CHECKED BY	ENG. AHMAD MASOUD ZAFAR
APPROVED BY	Eng. RUHULLAH RASTAGAR

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01	(%) DESIGN SUBMITTAL	()		
SYMBOL	DESCRIPTION	DATE	APR	CODE

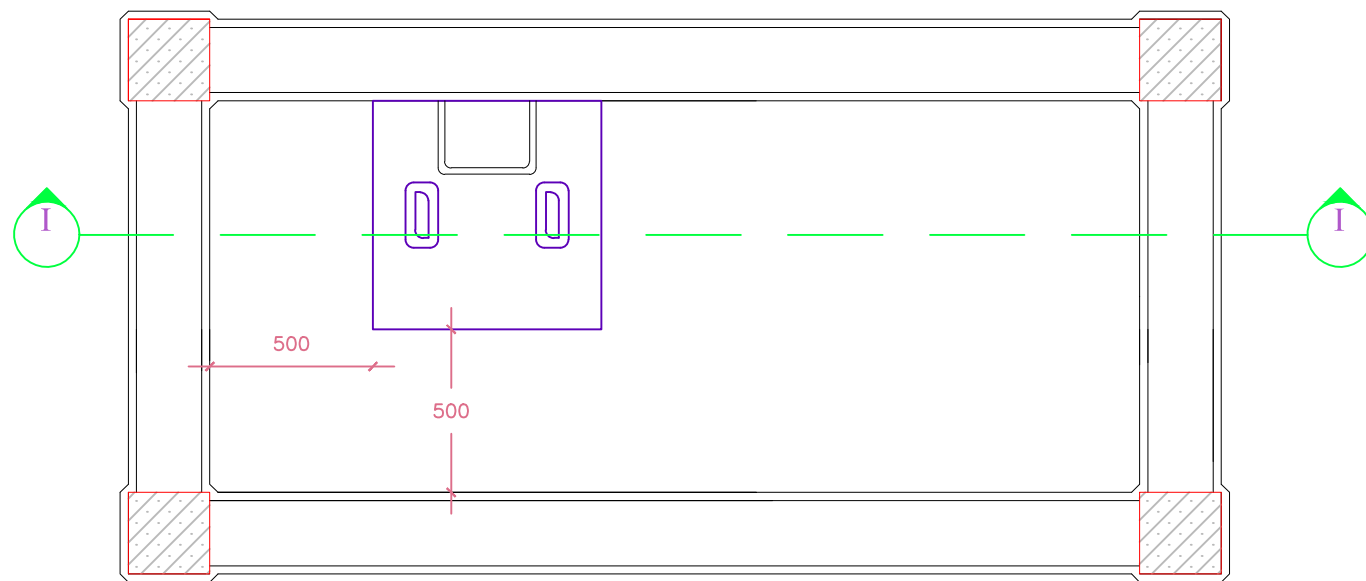
SHEET CONTENT/ DRAWING TITLE		NTS
SETTLER SECTION I&II		
LOCATION		
DARULAMAN		SCALE

CONTRACT NUMBER	AUWSSC-19-WWMD-0014
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SHEET REFERENCE NUMBER	
A A-02	





SETTLER TOP SECOND SLAB PLAN
SHEET NO | REF SCALE:NTS



SETTLER TOP SECOND SLAB SECTION PLAN
SHEET NO | REF SCALE:NTS



OWNER	PROJECT TITLE
	KABUL REIVER BASIN

CLIENT	AFGHANISTAN URBAN WATER SUPPLY AND SEWERAGE CORPORATION WASTE WATER MANAGEMENT DEPARTMENT

SURVEYED BY	Eng. AKBARI & Eng. HASSAN
DESIGNED BY	.....
DRAWING BY	Eng. RABIA HUSSAINI
CHECKED BY	ENG.AHMAD MASOUD ZAFAR
APPROVED BY	Eng. RUHULLAH RASTAGAR

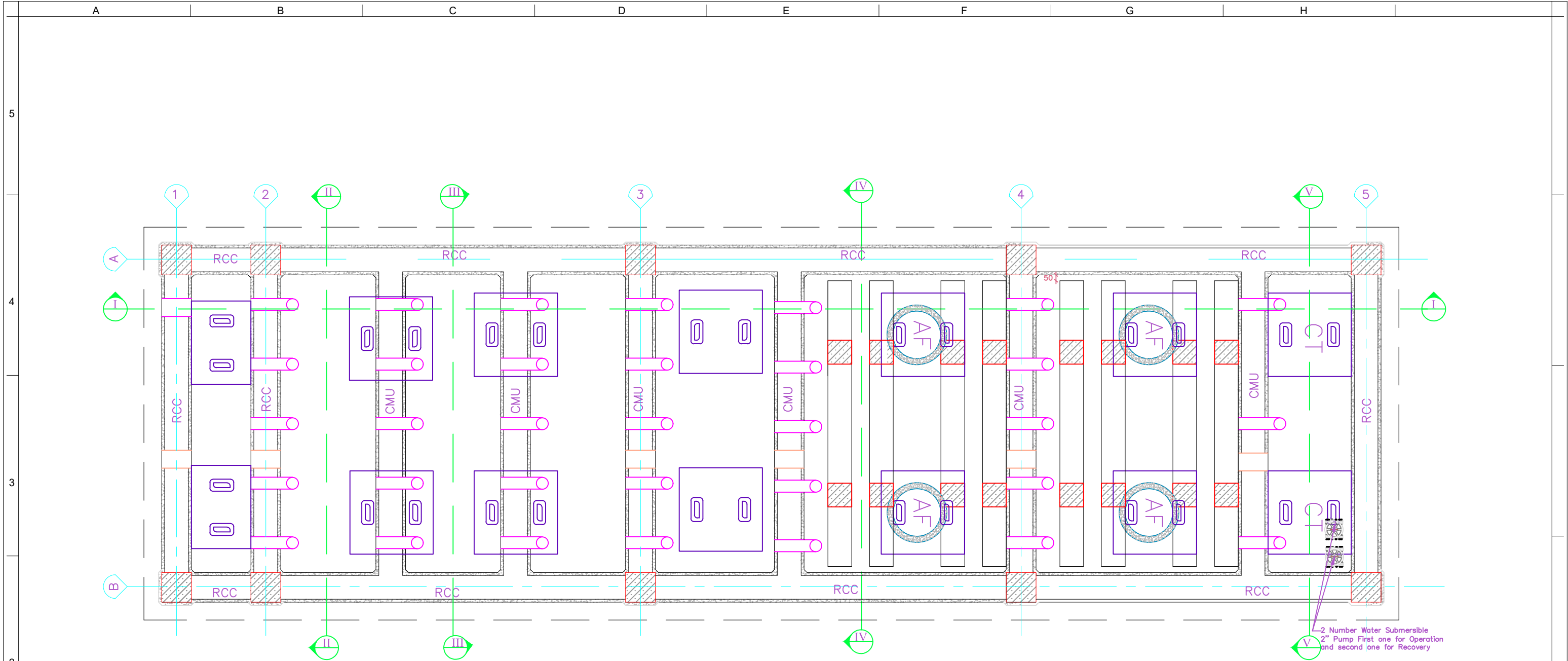
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SYMBOL	DESCRIPTION	DATE	APR	CODE	

SHEET CONTENT/ DRAWING TITLE		NTS
SETTLER TOP SLAB PLAN&SECTION		
LOCATION		
DARULAMAN		SCALE

CONTRACT NUMBER	AUWSSC-19-WWMD-0014
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SHEET REFERENCE NUMBER
A A-04





DC, ABR, AF AND CT SECTION PLAN

SHEET NO REF

SCALE: NTS



OWNER	PROJECT TITLE
	KABUL REIVER BASIN

CLIENT	AFGHANISTAN URBAN WATER SUPPLY AND SEWERAGE CORPORATION
	WASTE WATER MANAGEMENT DEPARTMENT

SURVEYED BY	Eng. AKBARI & Eng. HASSAN
DESIGNED BY	Eng. RABIA HUSSAINI
DRAWING BY	Eng. AHMAD MASOUD ZAFAR
CHECKED BY	Eng. AHMAD MASOUD ZAFAR
APPROVED BY	Eng. RUHULLAH RASTAGAR

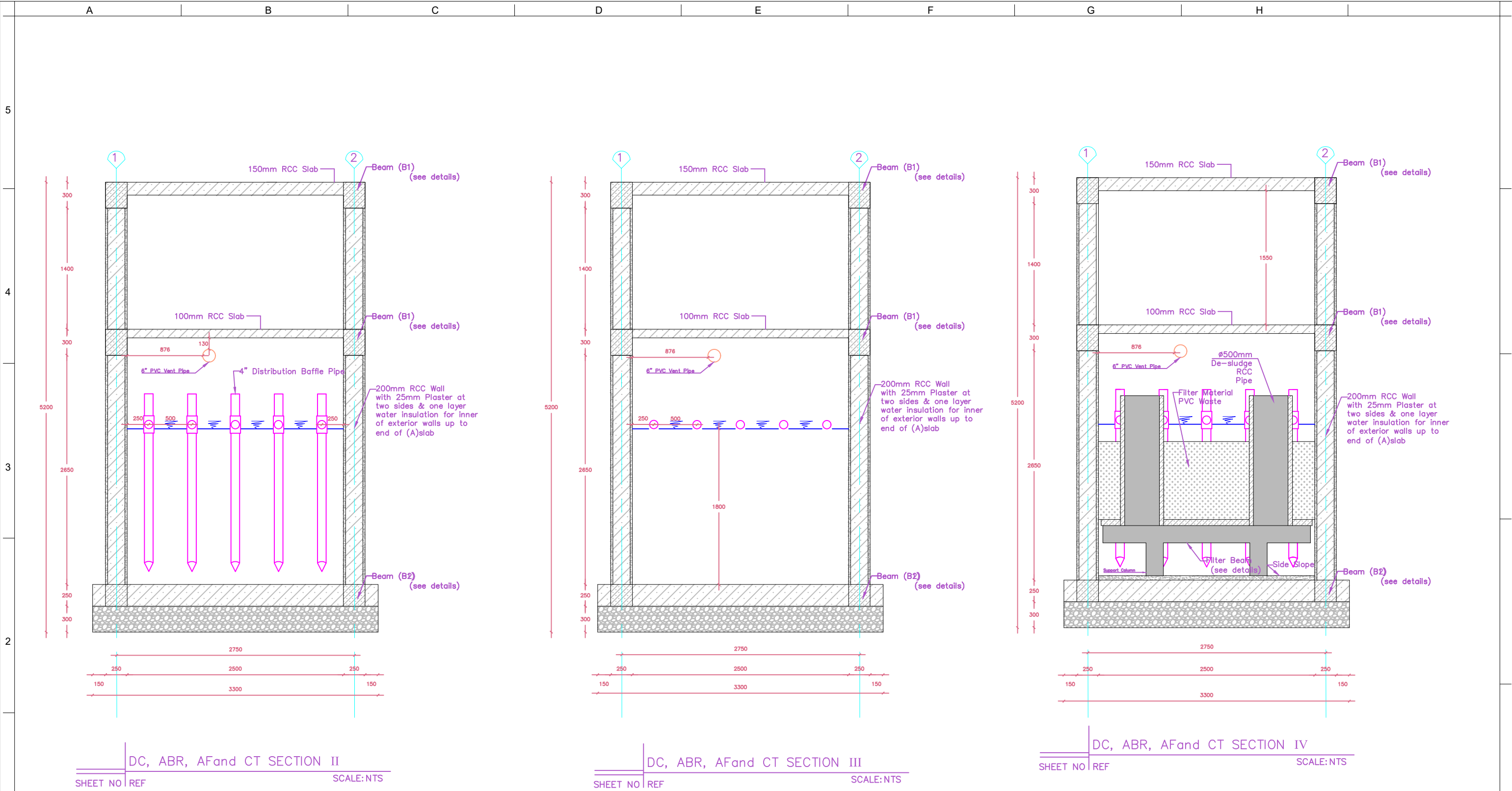
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SYMBOL	DESCRIPTION	DATE	APR	CODE

SHEET CONTENT/ DRAWING TITLE		NTS
ABR,AF CT SECTION PLAN		
LOCATION		
DARULAMAN		SCALE

CONTRACT NUMBER	AUWSSC-19-WWMD-0014
NOTE:	
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7- ALL OTHER ELEMENTS SHOULD BE ACCORDING TO PLAN, SECTION AND DETAILS	
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SHEET REFERENCE NUMBER
A-06





OWNER	PROJECT TITLE
	KABUL REIVER BASIN

CLIENT	AFGHANISTAN URBAN WATER SUPPLY AND SEWERAGE CORPORATION
	WASTE WATER MANAGEMENT DEPARTMENT

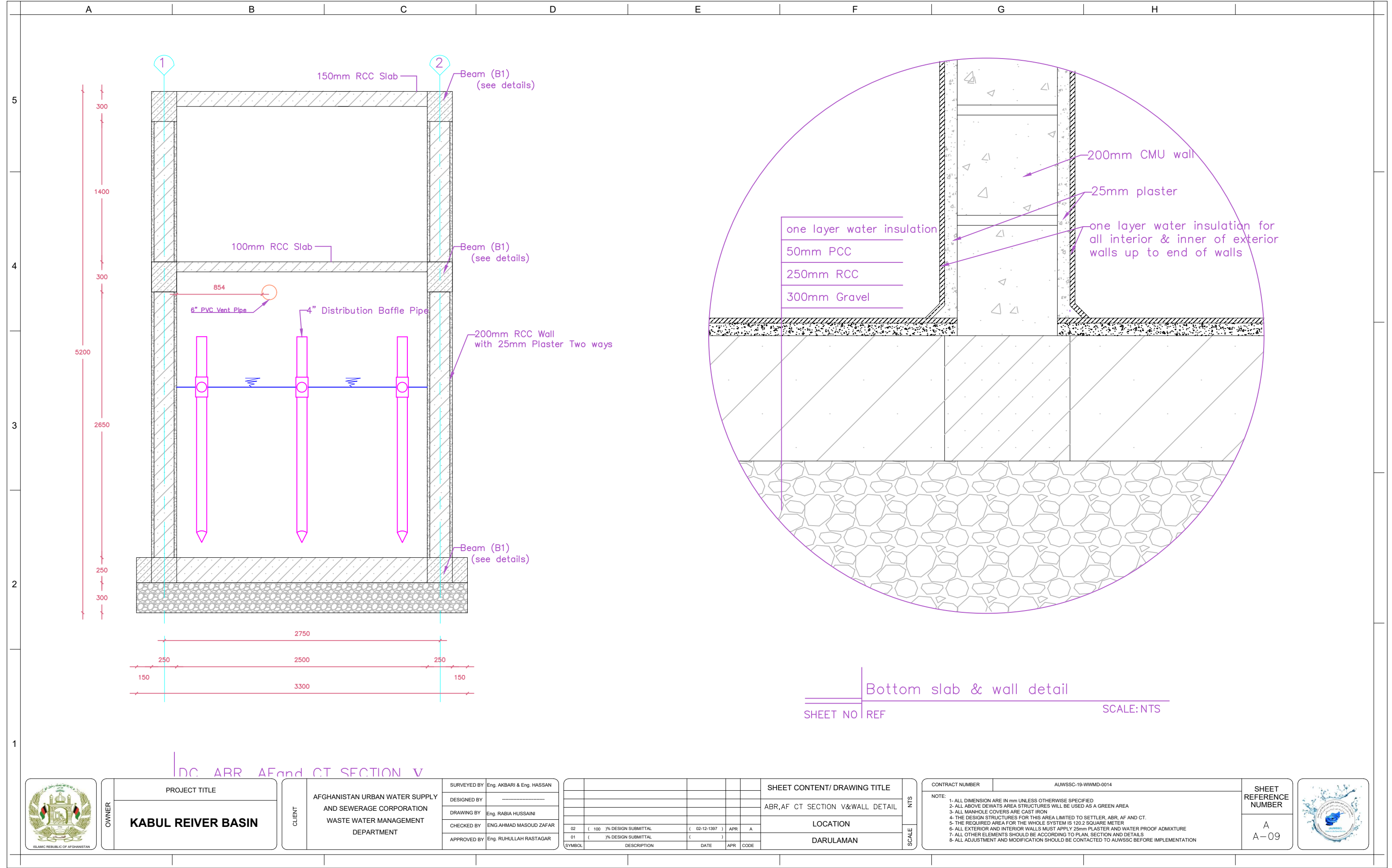
SURVEYED BY	Eng. AKBARI & Eng. HASSAN
DESIGNED BY	.....
DRAWING BY	Eng. RABIA HUSSAINI
CHECKED BY	ENG. AHMAD MASOUD ZAFAR
APPROVED BY	Eng. RUHULLAH RASTAGAR

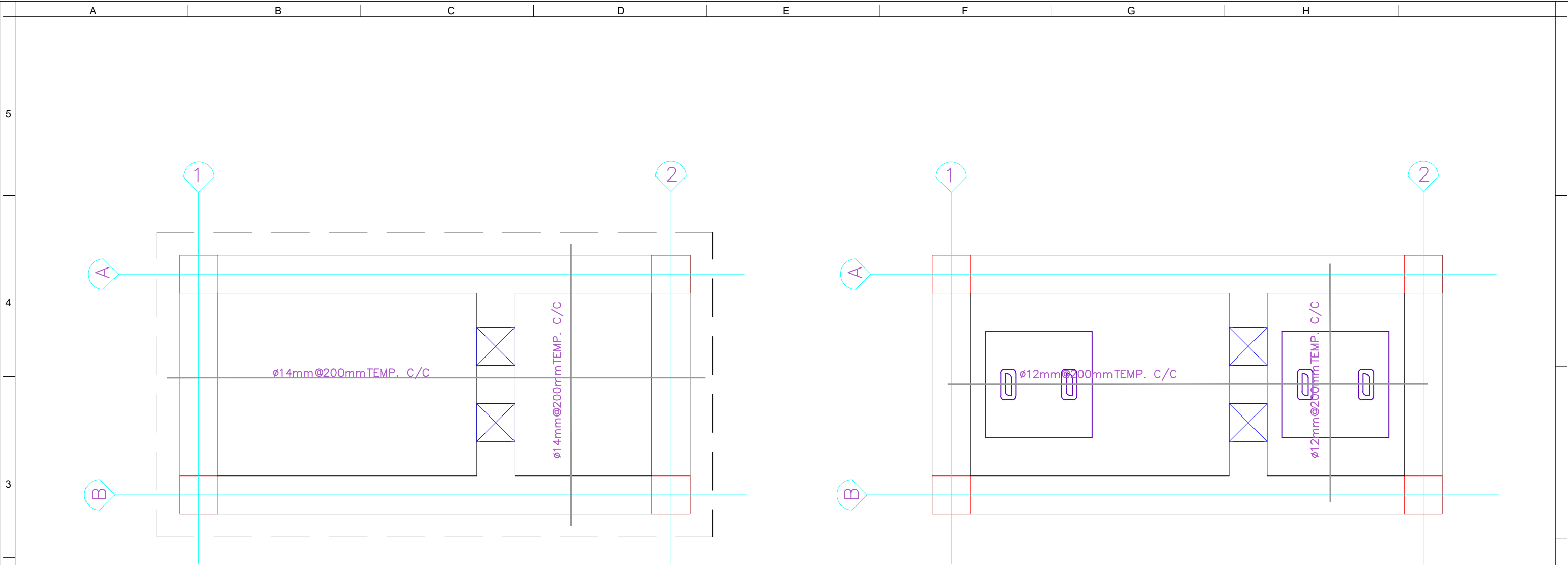
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SHEET CONTENT/ DRAWING TITLE		NTS
ABR,AF CT SECTION II,III&IV		
LOCATION		
DARULAMAN		SCALE

CONTRACT NUMBER	AUWSSC-19-WWMD-0014
NOTE: 1- ALL DIMENSION ARE IN mm UNLESS OTHERWISE SPECIFIED 2- ALL ABOVE DEWATS AREA STRUCTURES WILL BE USED AS A GREEN AREA 3- ALL MANHOLE COVERS ARE CAST IRON 4- THE DESIGN STRUCTURES FOR THIS AREA LIMITED TO SETTLER, ABR, AF AND CT. 5- THE REQUIRED AREA FOR THE WHOLE SYSTEM IS 120.2 SQUARE METER 6- ALL EXTERIOR AND INTERIOR WALLS MUST APPLY 25mm PLASTER AND WATER PROOF ADMIXTURE 7- ALL OTHER ELEMENTS SHOULD BE ACCORDING TO PLAN, SECTION AND DETAILS 8- ALL ADJUSTMENT AND MODIFICATION SHOULD BE CONTACTED TO AUWSSC BEFORE IMPLEMENTATION	
SHEET REFERENCE NUMBER	A A-09







SETTLER TOP&BOTTOM SLAB REINFORCEMENT

SHEET NO | REF

SCALE: NTS



OWNER	PROJECT TITLE
	KABUL REIVER BASIN

CLIENT	AFGHANISTAN URBAN WATER SUPPLY AND SEWERAGE CORPORATION
	WASTE WATER MANAGEMENT DEPARTMENT

SURVEYED BY	Eng. AKBARI & Eng. HASSAN
DESIGNED BY	.....
DRAWING BY	Eng. RABIA HUSSAINI
CHECKED BY	ENG. AHMAD MASOUD ZAFAR
APPROVED BY	Eng. RUHULLAH RASTAGAR

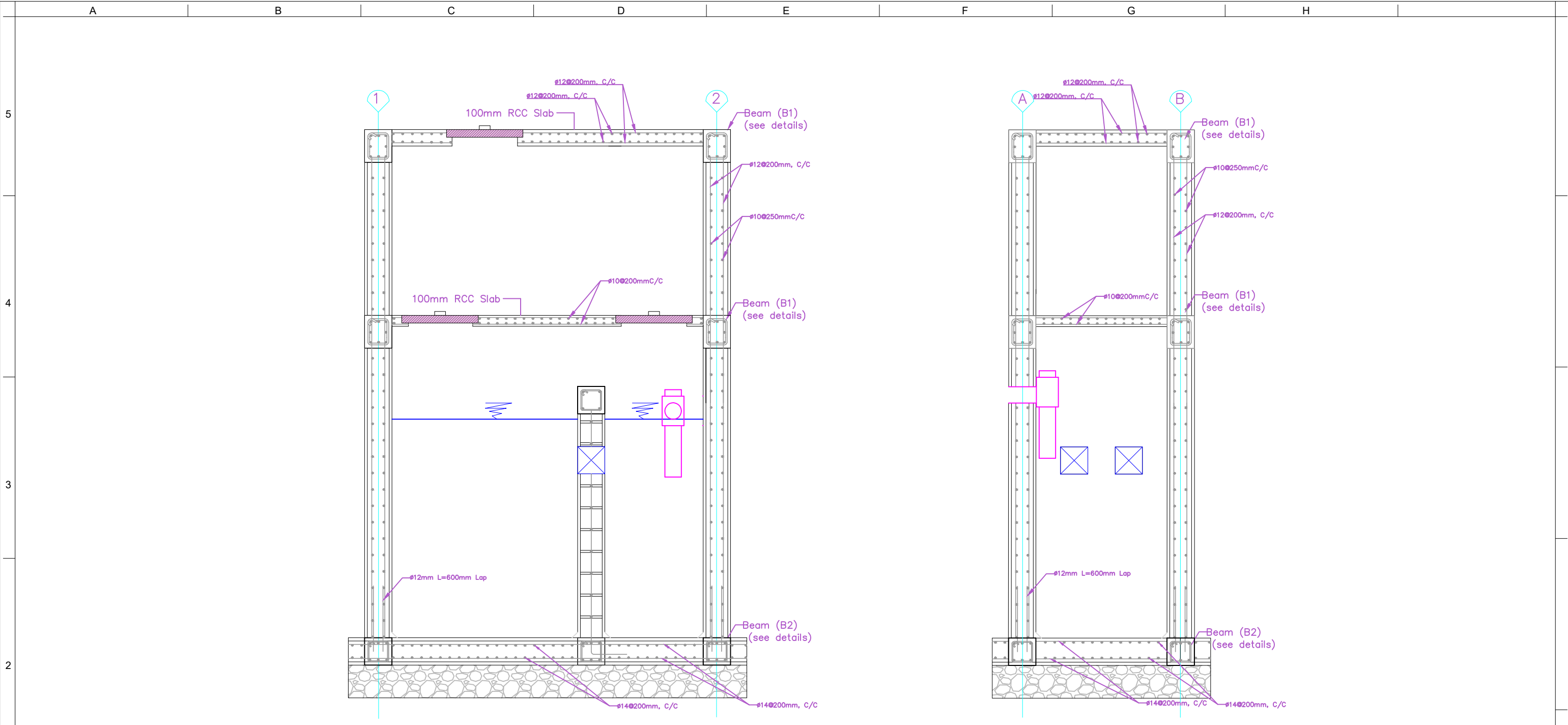
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SHEET CONTENT/ DRAWING TITLE		NTS
SETTLER TOP&BOTTOM SLAB REINF		
LOCATION		
DARULAMAN		SCALE

CONTRACT NUMBER	AUWSSC-19-WWMD-0014
NOTE: 1- ALL DIMENSION ARE IN mm UNLESS OTHERWISE SPECIFIED 2- ALL ABOVE DEWATS AREA STRUCTURES WILL BE USED AS A GREEN AREA 3- ALL MANHOLE COVERS ARE CAST IRON 4- THE DESIGN STRUCTURES FOR THIS AREA LIMITED TO SETTLER, ABR, AF AND CT. 5- THE REQUIRED AREA FOR THE WHOLE SYSTEM IS 120.2 SQUARE METER 6- ALL EXTERIOR AND INTERIOR WALLS MUST APPLY 25mm PLASTER AND WATER PROOF ADMIXTURE 7- ALL OTHER ELEMENTS SHOULD BE ACCORDING TO PLAN, SECTION AND DETAILS 8- ALL ADJUSTMENT AND MODIFICATION SHOULD BE CONTACTED TO AUWSSC BEFORE IMPLEMENTATION	

SHEET REFERENCE NUMBER
S S-01





SETTLER SECTION I&II REINFORCEMENT

SHEET NO REF

SCALE: NTS



OWNER	PROJECT TITLE
	KABUL REIVER BASIN

CLIENT	AFGHANISTAN URBAN WATER SUPPLY AND SEWERAGE CORPORATION
	WASTE WATER MANAGEMENT DEPARTMENT

SURVEYED BY	Eng. AKBARI & Eng. HASSAN
DESIGNED BY	
DRAWING BY	Eng. RABIA HUSSAINI
CHECKED BY	ENG. AHMAD MASOUD ZAFAR
APPROVED BY	Eng. RUHULLAH RASTAGAR

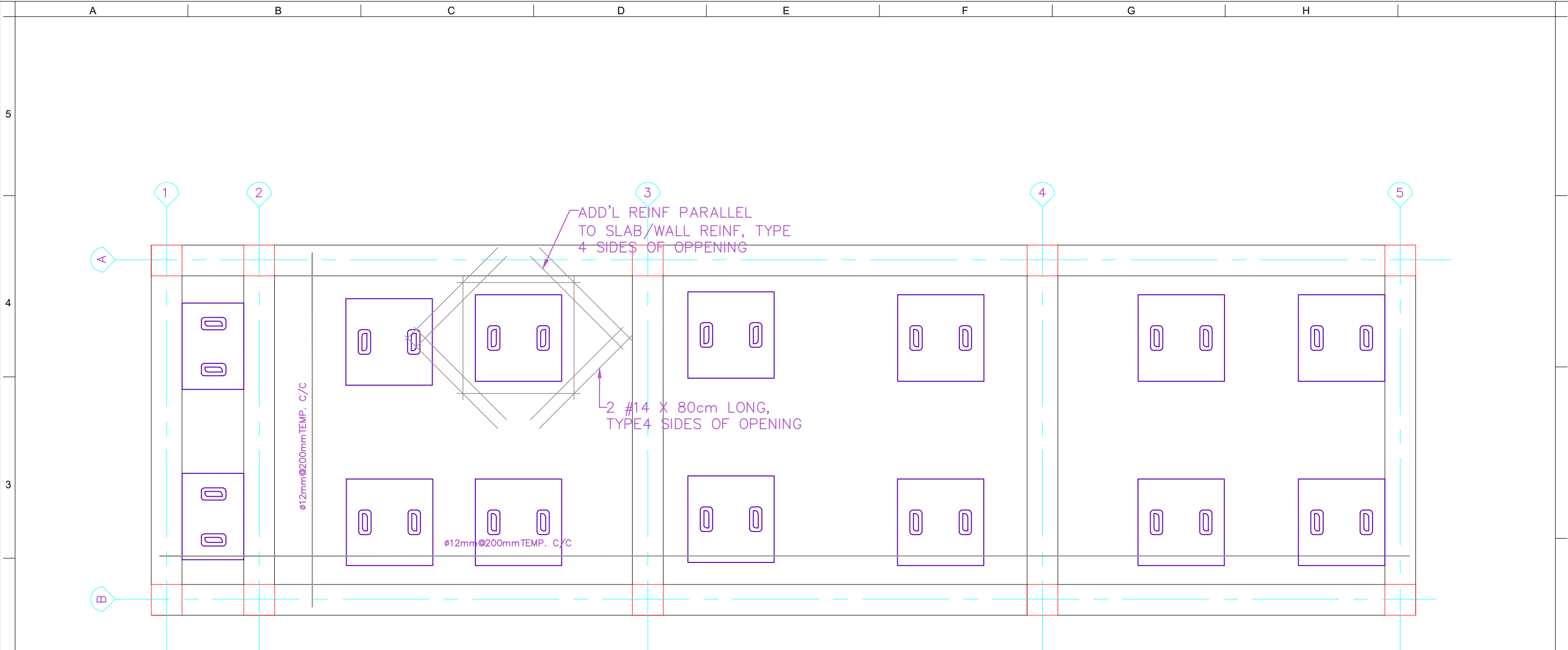
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SHEET CONTENT/ DRAWING TITLE		NTS
SETTLER SECTION I&II REINF		
LOCATION		
DARULAMAN		SCALE

CONTRACT NUMBER	AUWSSC-19-WWMD-0014
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SHEET REFERENCE NUMBER
S
S-02





DC, ABR, AF AND CT TOP SLAB REINFORCEMENT

SHEET NO REF

SCALE: NTS



OWNER	PROJECT TITLE
	KABUL REIVER BASIN

CLIENT	AFGHANISTAN URBAN WATER SUPPLY AND SEWERAGE CORPORATION WASTE WATER MANAGEMENT DEPARTMENT	SURVEYED BY	Eng. AKBARI & Eng. HASSAN
		DESIGNED BY	.....
		DRAWING BY	Eng. RABIA HUSSAINI
		CHECKED BY	ENG. AHMAD MASOUD ZAFAR
		APPROVED BY	Eng. RUHULLAH RASTAGAR

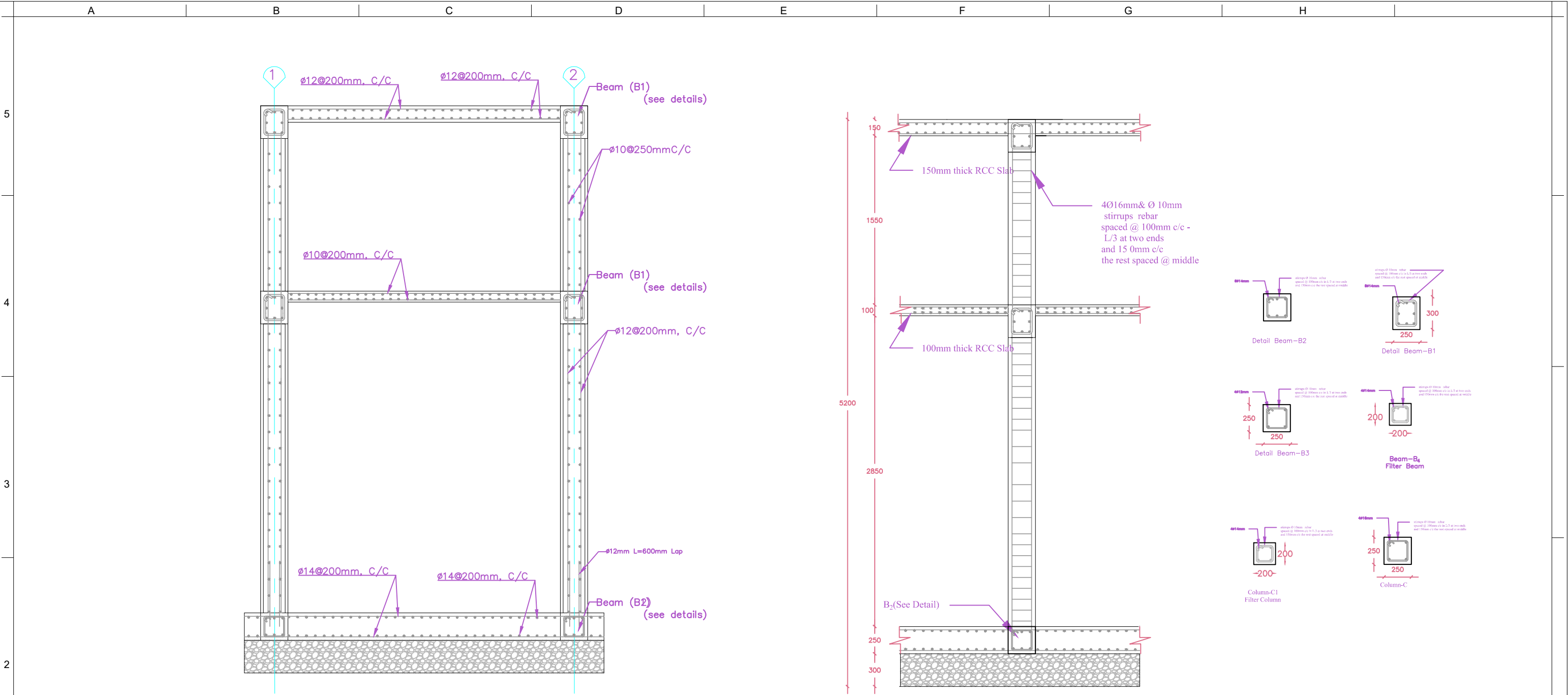
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						LOCATION	
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SYMBOL DESCRIPTION		DATE	APR	CODE			

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		S S-03









DC, ABR, AF and CT FRAME REINFORCING SECTION I

SHEET NO | REF

SCALE: NTS

COLUMN & BEAM DETAIL

SHEET NO | REF

SCALE: NTS



OWNER	PROJECT TITLE
	KABUL REIVER BASIN

CLIENT	AFGHANISTAN URBAN WATER SUPPLY AND SEWERAGE CORPORATION
	WASTE WATER MANAGEMENT DEPARTMENT

SURVEYED BY	Eng. AKBARI & Eng. HASSAN
DESIGNED BY	Eng. RABIA HUSSAINI
DRAWING BY	Eng. AHMAD MASOUD ZAFAR
CHECKED BY	Eng. AHMAD MASOUD ZAFAR
APPROVED BY	Eng. RUHULLAH RASTAGAR

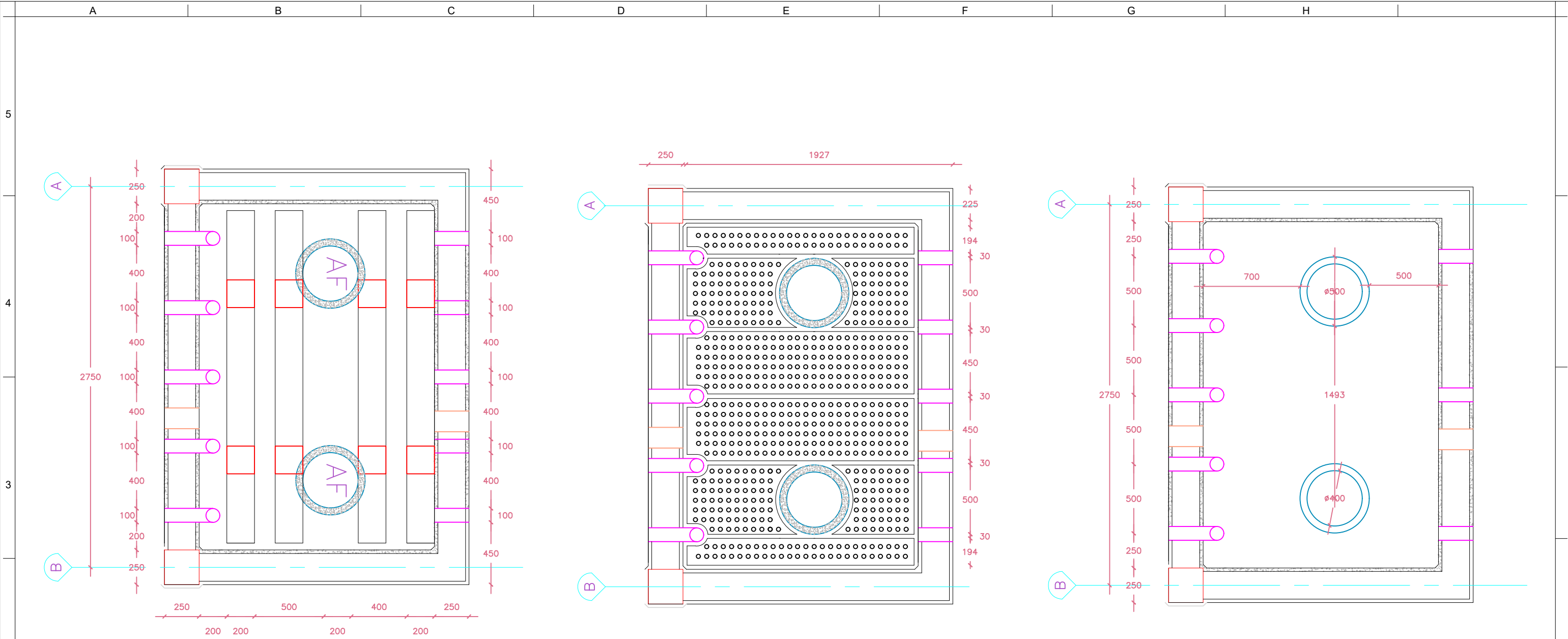
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SHEET CONTENT/ DRAWING TITLE		NTS
ABR,AF CT SECTION II REINF		
LOCATION		
DARULAMAN		SCALE

CONTRACT NUMBER	AUWSC-19-WWMD-0014
NOTE:	
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SHEET REFERENCE NUMBER
S-06





FILTER BEAM, FILTER COLUMNS & DE-SLUDGE PIPE DETAILS

SHEET NO | REF

SCALE: 1: 100



OWNER	PROJECT TITLE
	KABUL REIVER BASIN

CLIENT	AFGHANISTAN URBAN WATER SUPPLY AND SEWERAGE CORPORATION
	WASTE WATER MANAGEMENT DEPARTMENT

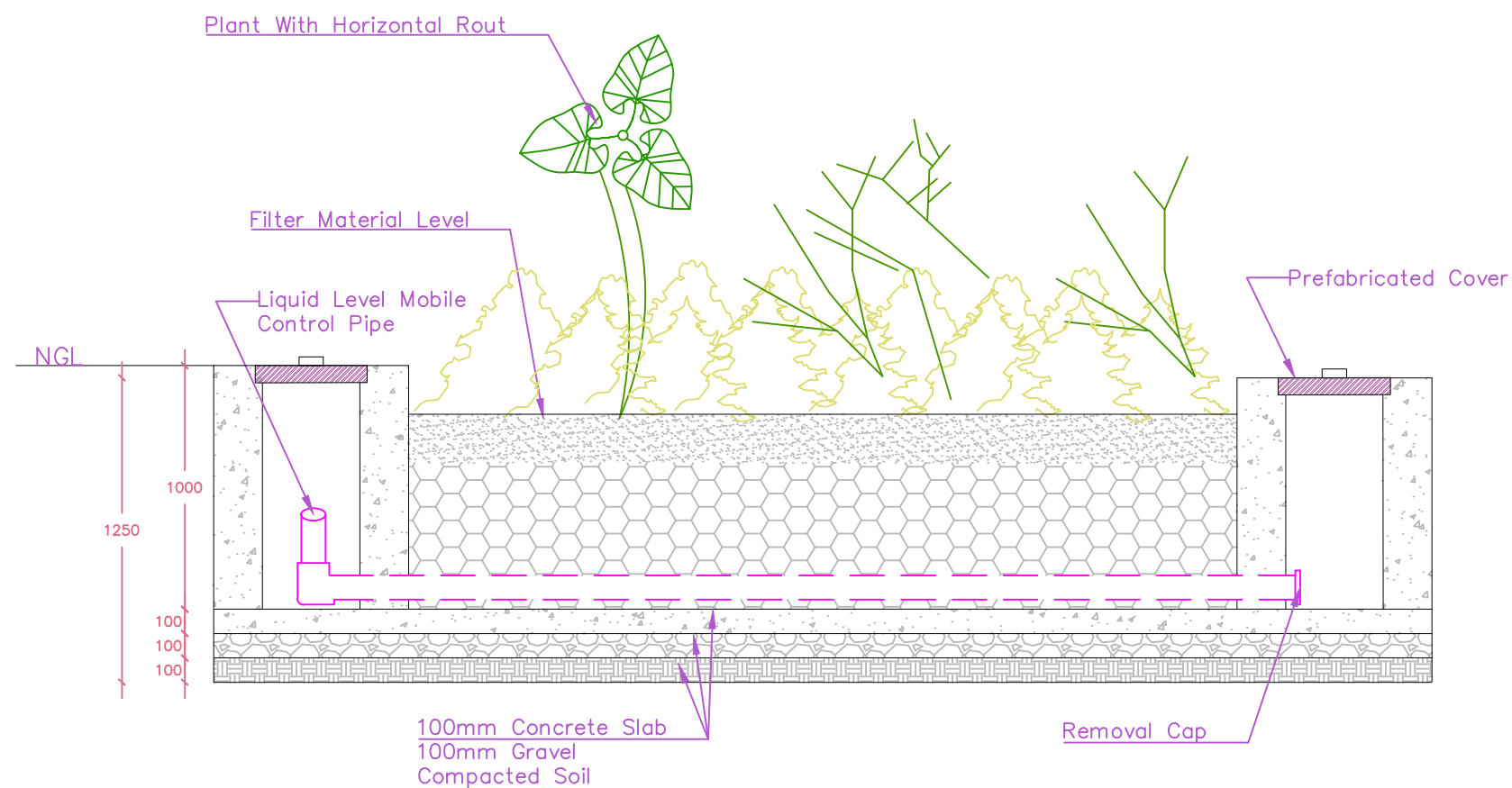
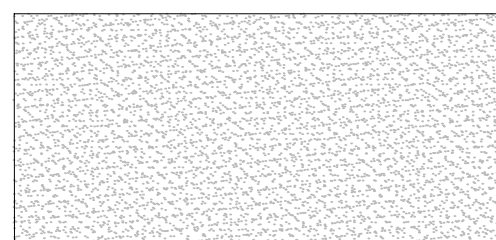
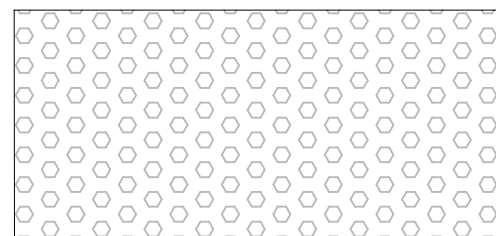
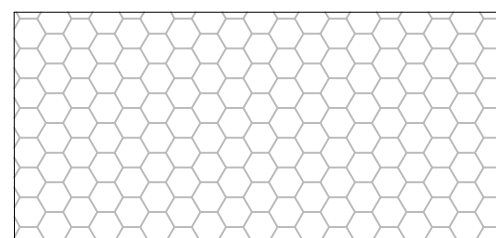
SURVEYED BY	Eng. AKBARI & Eng. HASSAN
DESIGNED BY	.....
DRAWING BY	Eng. RABIA HUSSAINI
CHECKED BY	ENG. AHMAD MASOUD ZAFAR
APPROVED BY	Eng. RUHULLAH RASTAGAR

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02	(100 %) DESIGN SUBMITTAL	(02-12-1397)	APR	A
01	(%) DESIGN SUBMITTAL	()		

SHEET CONTENT/ DRAWING TITLE		NTS
FILTER SLAB DETAIL		
LOCATION		
DARULAMAN		SCALE

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SHEET REFERENCE NUMBER	
A A-11	





PGF SECTION II	
SHEET NO	REF
SCALE: 1: 100	



OWNER

PROJECT TITLE

KABUL REIVER BASIN

CLIENT

AFGHANISTAN URBAN WATER SUPPLY
AND SEWERAGE CORPORATION
WASTE WATER MANAGEMENT
DEPARTMENT

SURVEYED BY	Eng. AKBARI & Eng. HASSAN
DESIGNED BY	-----
DRAWING BY	Eng. RABIA HUSSAINI
CHECKED BY	ENG.AHMAD MASOUD ZAFAR
APPROVED BY	Eng. RUHULLAH RASTAGAR

						SHEET CONTENT/ DRAWING TITLE
						PGF SECTION II PLAN
						LOCATION
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CONTRACT NUMBER

AUWSSC-19-WWMD-0014

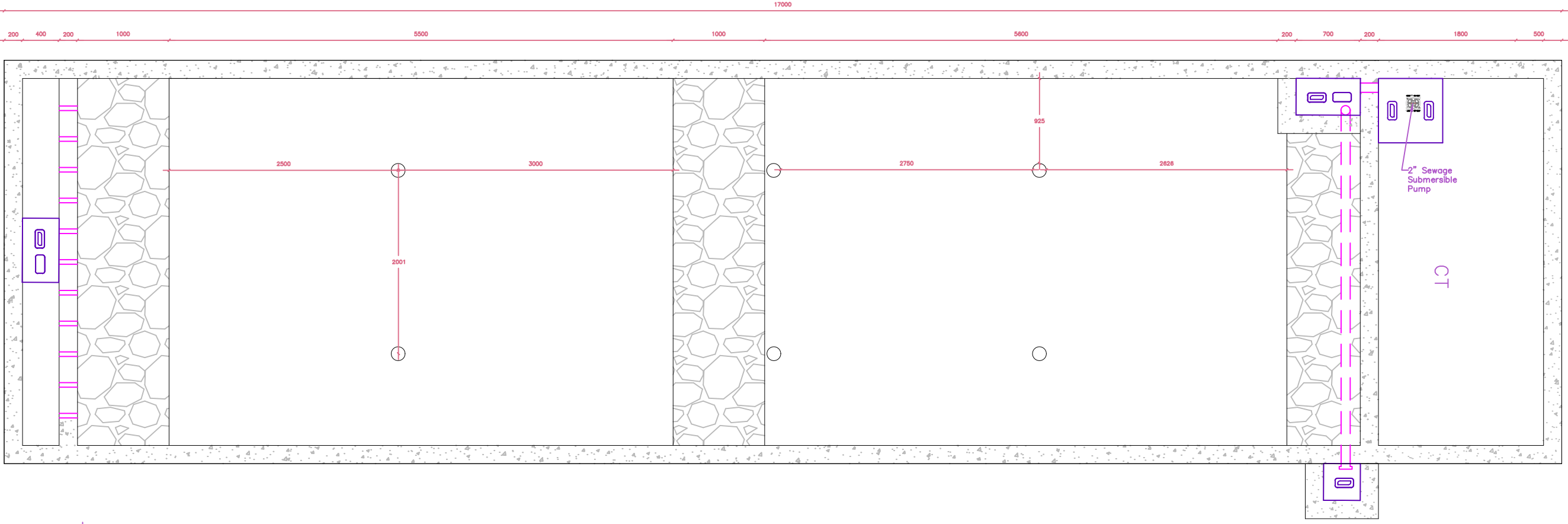
NOTE:

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- 1- ALL DIMENSION ARE IN mm UNLESS OTHERWISE SPECIFIED
 - 2- ALL ABOVE DEWATS AREA STRUCTURES WILL BE USED AS A GREEN AREA
 - 3- ALL MANHOLE COVERS ARE CAST IRON
 - 4- THE DESIGN STRUCTURES FOR THIS AREA LIMITED TO SETTLER, ABR, AF AND CT.
 - 5- THE REQUIRED AREA FOR THE WHOLE SYSTEM IS 120.2 SQUARE METER
 - 6- ALL EXTERIOR AND INTERIOR WALLS MUST APPLY 25mm PLASTER AND WATER PROOF ADMIXTURE
 - 7- ALL OTHER ELEMENTS SHOULD BE ACCORDING TO PLAN, SECTION AND DETAILS
 - 8- ALL ADJUSTMENT AND MODIFICATION SHOULD BE CONTACTED TO AUWSS BEFORE IMPLEMENTATION

	SHEET REFERENCE NUMBER
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A
A-16





PLANTED GRAVEL FILTER (GENERAL) PLAN
SHEET NO | REF
SCALE: 1:100



OWNER	PROJECT TITLE
	KABUL REIVER BASIN

CLIENT	AFGHANISTAN URBAN WATER SUPPLY AND SEWERAGE CORPORATION
	WASTE WATER MANAGEMENT DEPARTMENT

SURVEYED BY	Eng. AKBARI & Eng. HASSAN
DESIGNED BY	.....
DRAWING BY	Eng. RABIA HUSSAINI
CHECKED BY	ENG.AHMAD MASOUD ZAFAR
APPROVED BY	Eng. RUHULLAH RASTAGAR

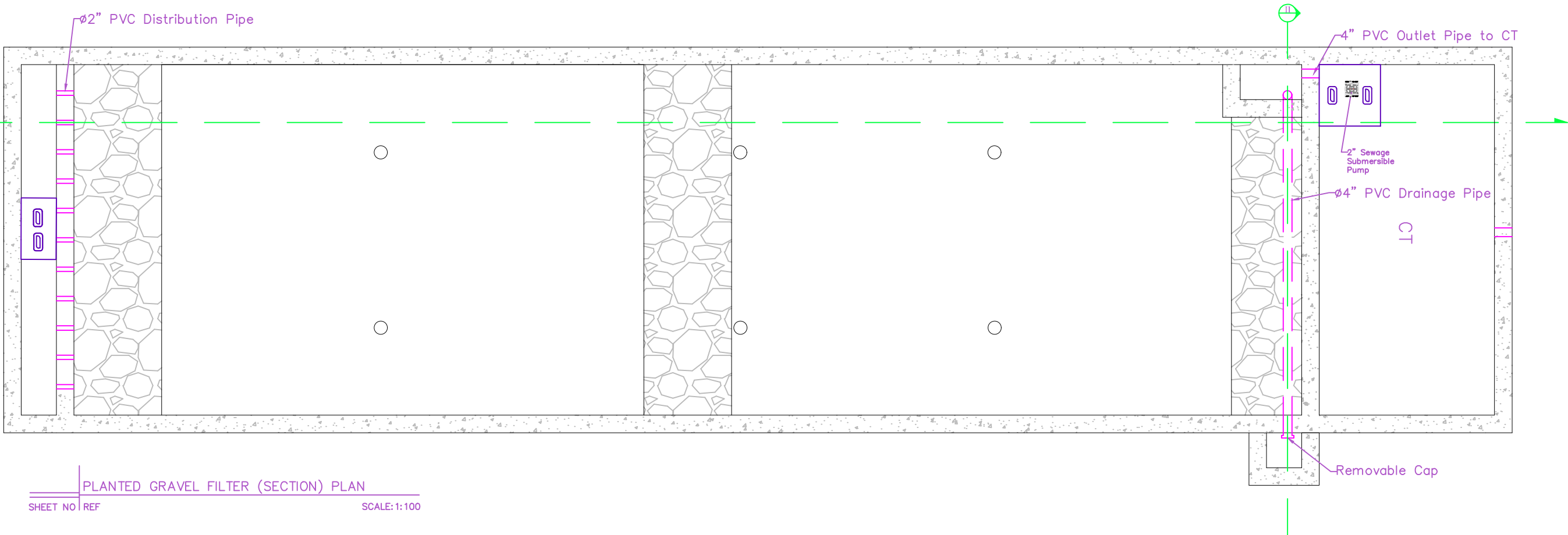
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SYMBOL	DESCRIPTION		DATE	APR	CODE				

SHEET CONTENT/ DRAWING TITLE		NTS
PGF GENERAL PLAN		
LOCATION		SCALE
DARULAMAN		

CONTRACT NUMBER	AUWSSC-19-WWMD-0014
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SHEET REFERENCE NUMBER
A A-13





PLANTED GRAVEL FILTER (SECTION) PLAN
SHEET NO | REF SCALE: 1:100



OWNER	PROJECT TITLE
	KABUL REIVER BASIN

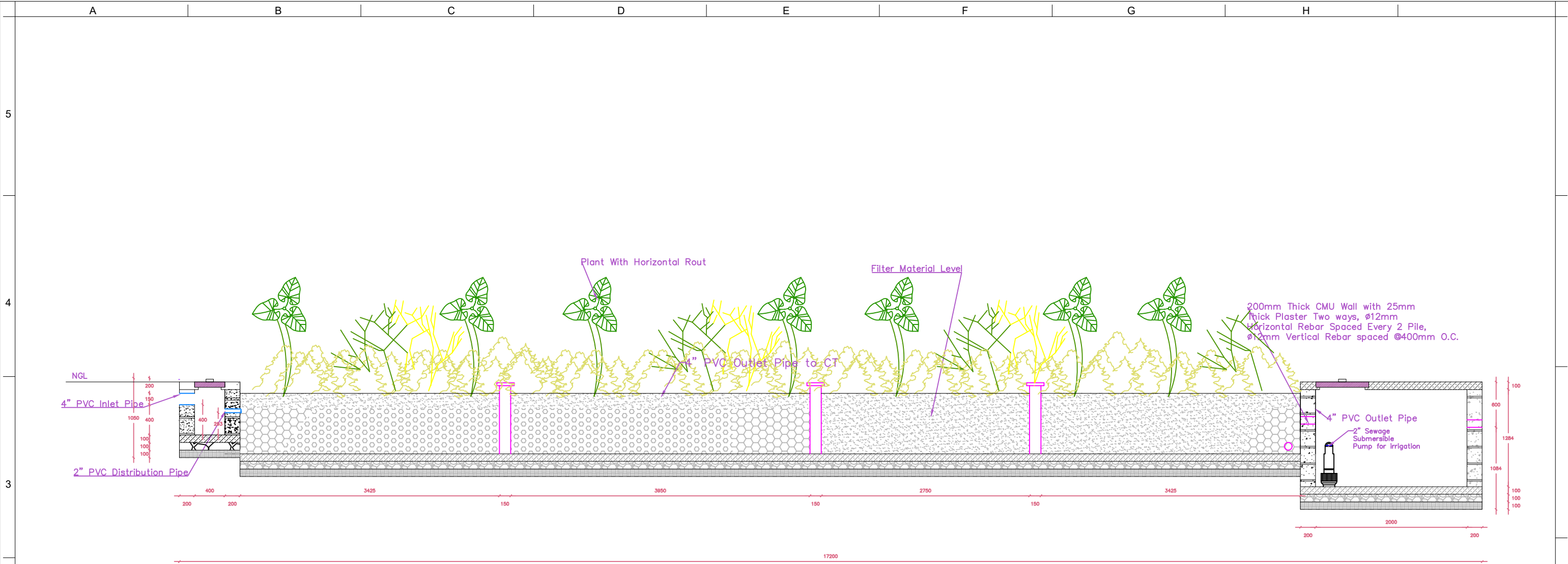
CLIENT	AFGHANISTAN URBAN WATER SUPPLY AND SEWERAGE CORPORATION WASTE WATER MANAGEMENT DEPARTMENT	SURVEYED BY	Eng. AKBARI & Eng. HASSAN
		DESIGNED BY	.....
		DRAWING BY	Eng. RABIA HUSSAINI
		CHECKED BY	ENG.AHMAD MASOUD ZAFAR
		APPROVED BY	Eng. RUHULLAH RASTAGAR

						SHEET CONTENT/ DRAWING TITLE	NTS
						PGF SECTION PLAN	
02	(100)	% DESIGN SUBMITTAL	(02-12-1397)	APR	A	LOCATION	SCALE
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SHEET REFERENCE NUMBER
A A-14





PGF SECTION I
SHEET NO | REF SCALE: 1:100



OWNER	PROJECT TITLE
	KABUL REIVER BASIN

CLIENT	AFGHANISTAN URBAN WATER SUPPLY AND SEWERAGE CORPORATION WASTE WATER MANAGEMENT DEPARTMENT

SURVEYED BY	Eng. AKBARI & Eng. HASSAN
DESIGNED BY	.....
DRAWING BY	Eng. RABIA HUSSAINI
CHECKED BY	ENG. AHMAD MASOUD ZAFAR
APPROVED BY	Eng. RUHULLAH RASTAGAR

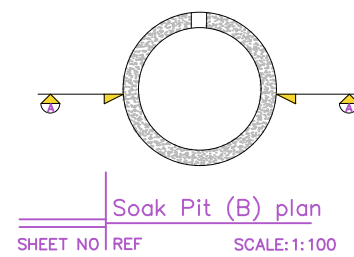
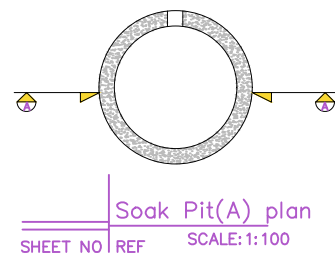
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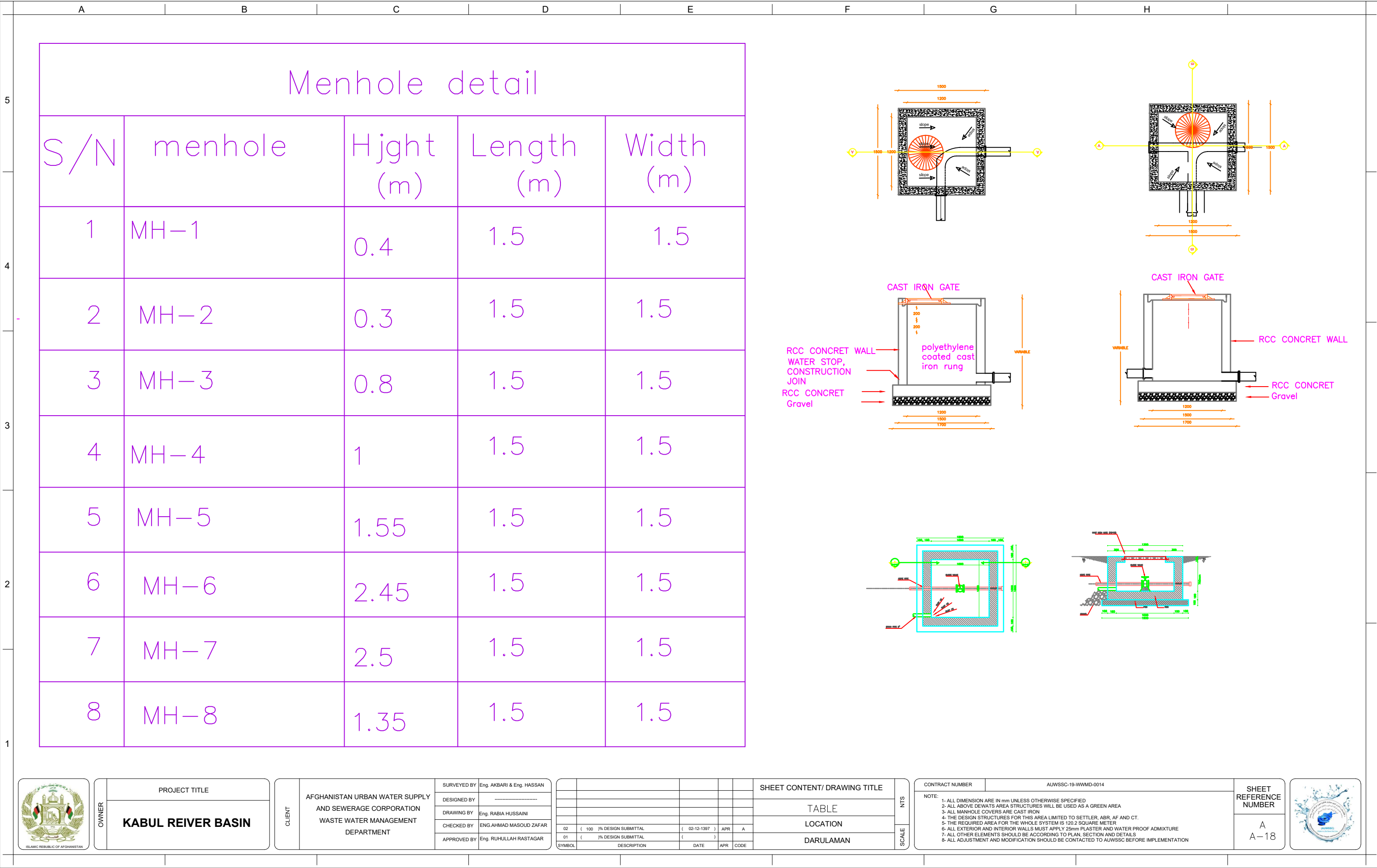




Note: when the water doesn't use for irrigation then discharged to soak pits



[illegible]





SEWAGE/WASTEWATER SUBMERSIBLE PUMPS

A photograph showing three large, black, industrial-grade pumps or blenders arranged in a row outdoors. Each pump has a large, circular inlet/outlet at the bottom. On top of each pump, there is a white plastic bag, likely containing a dry material to be processed. The background shows a paved area, some greenery, and a multi-story building with a red facade.

80	AF	P	2	1.5
Discharge mm	Type	Impeller type (P/U)	Pole	kW

Figure 10 consists of two performance curves, (a) and (b), for the 1000 Series centrifugal pumps. Both graphs plot Head (ft) on the y-axis (0 to 70) against Capacity (GPM) on the x-axis (0 to 250). The curves show a decrease in head as capacity increases.

Graph (a) Performance Curves:

- 1000A22.5 (Top curve)
- 1000A25
- 1000A27.5
- 1000A30
- 1000A35 (Bottom curve)

Graph (b) Performance Curves:

- 1000A22.5 (Top curve)
- 1000A25
- 1000A27.5
- 1000A30
- 1000A35 (Bottom curve)

Item		Description	
Liquid temp.		0~40°C(32~104°F)	
Applications		Wastewater • Sewage	
Max. depth		30m (100feet)	
Pump sect.	Material Structure	Impeller	Semi-open • Vortex
		M. seal	Double M. seals
		Bearing	Ball type
		Upper cover	FC-200
		Casing	FC-200
		Impeller	FC-200
		M. Seal	Lower:SiC/SiC • Upper: CA/CE
Motor sect.	Motor		Dry motor
			2P. (3600RPM)
	Insulation	B Class (54PF Class)	
	Frequency	60Hz	
	Protector	Auto-cut	
	Material	Frame	FC-200
		Main shaft	SUS410 (2-5HP : SUS403)
Cable		VCT or H07RN-F or SJOW/SOW	

■ PERFORMANCE SPEC.

Pole	Model	Power HP(kW)	Discharge Inch(mm)	Phase	Start Method	Head m	Capacity m³/min	Head feet	Capacity GPM	Weight kg(lb) 1 /3	Solid Passage mm	Dimension (mm)		
												Length	Width	Height
	50AFU2.8	1(0.75)	2"(50)	1	Capacitor	8	0.2	25	52	20(44)	35	236	152	418
				3	Direct					19(42)				

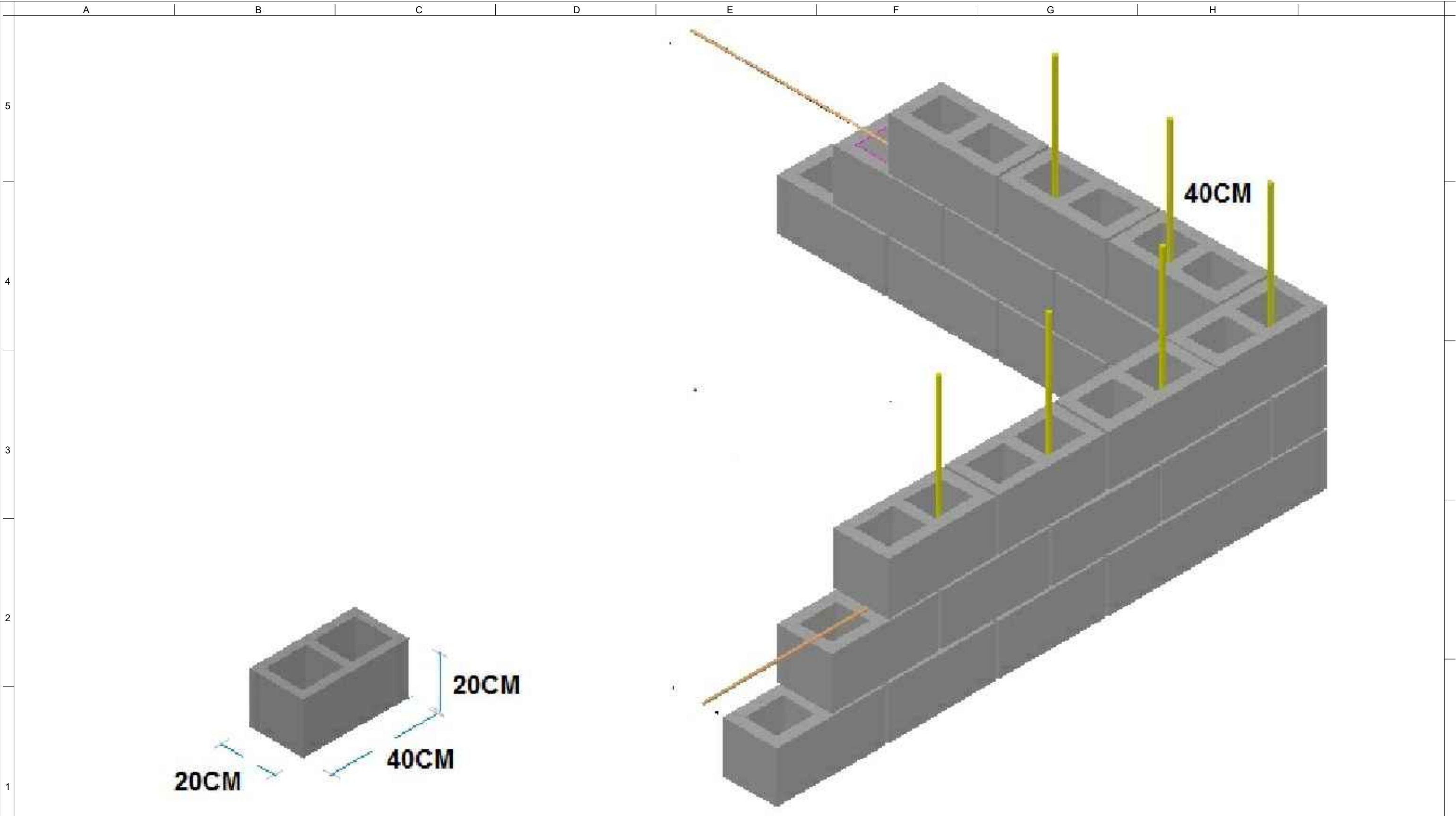


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APPROVED BY	Eng. RUHULLAH RASTAGAR

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A
A-19





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	KABUL REIVER BASIN

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	WASTE WATER MANAGEMENT DEPARTMENT

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01	()	% DESIGN SUBMITTAL	()		
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CMU WALLS DETAIL		
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