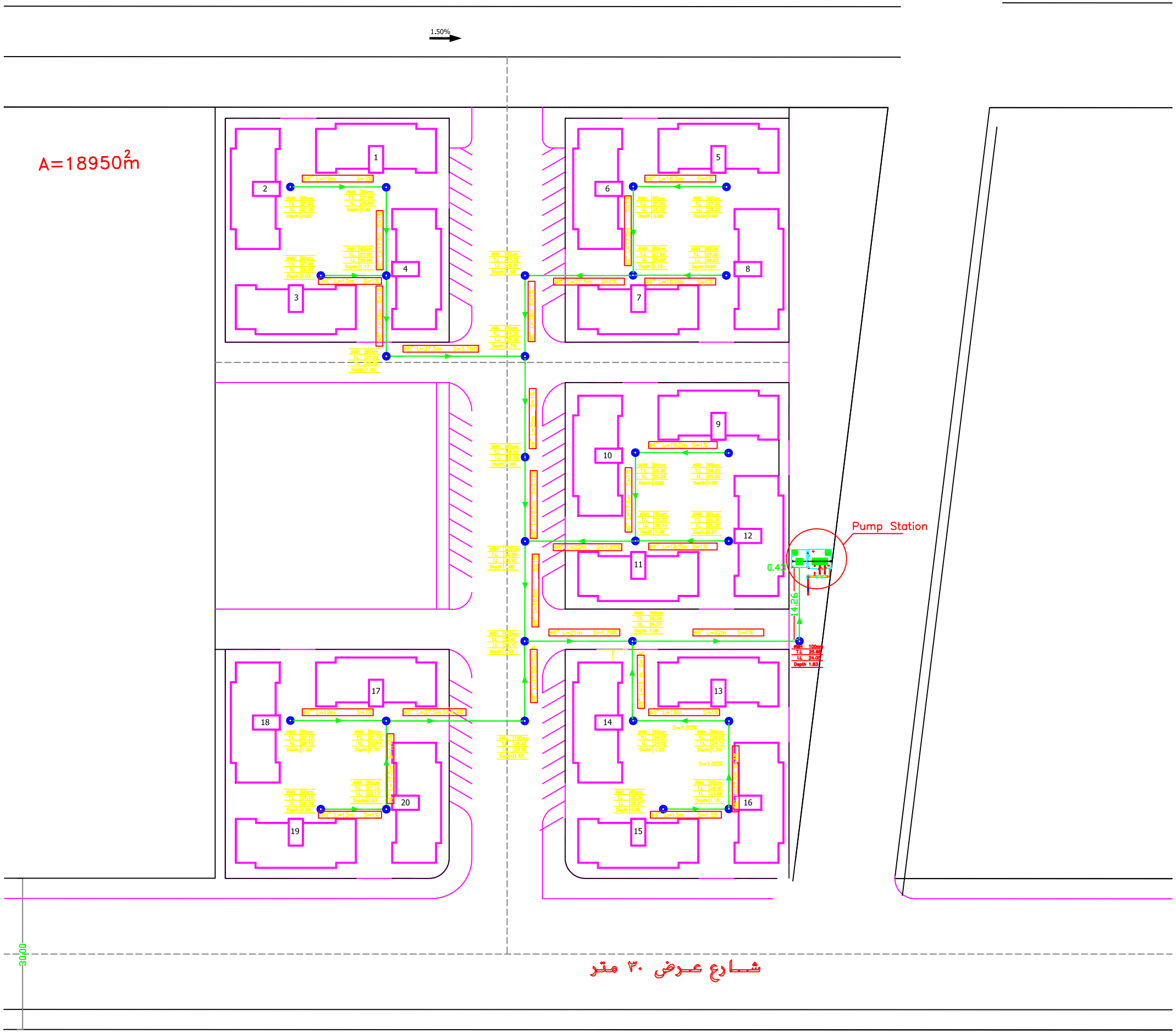


Site Plan

Scale 1/1000

NOTES

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale
25/02/07		1:1000

GOVERNMENT OF JAPAN

UNITED NATIONS DEVELOPMENT PROGRAMME
PROGRAMME OF ASSISTANCE TO THE PALESTINIAN PEOPLE

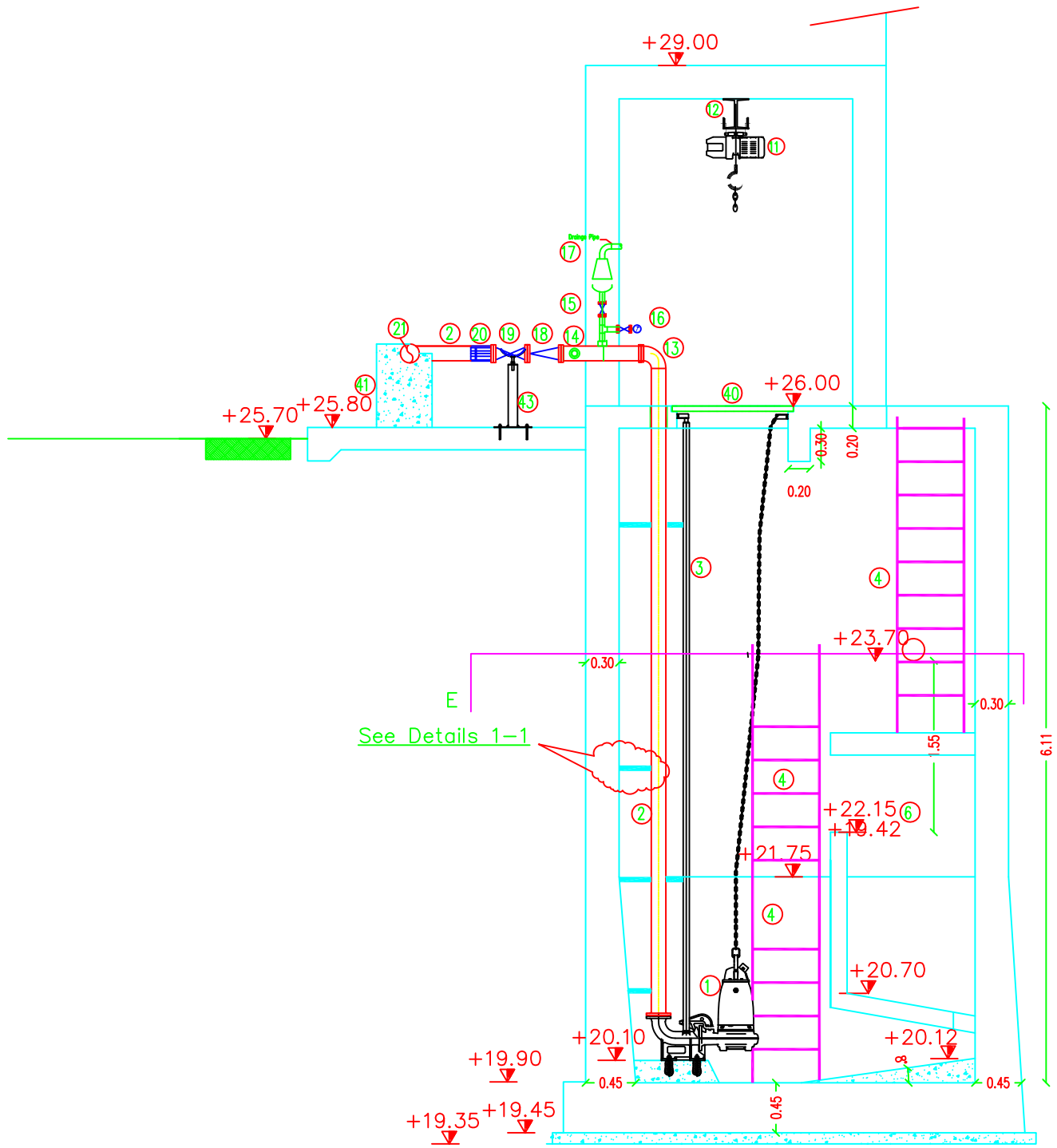
JAPANEESE HOUSING PROJECT
KHANYOUNIS

RESIDENTIAL BUILDING

Drawing No.

SE1

FOR TENDER ONLY



SECTION A–A IN THE SUMP WET WELL SCALE 1 : 50

1– Submersible Sewage Pump.
2– ø4" Steel Discharge Pipe.
3– ø2" Pump Lifiting Guide Rail.
4– Stainless Steel Ladder
5– Stainless Steel Manual Bar Screen
6– Mechaical Bar Screen.
7– Sluice Gate Wall Mounted (ø40cm)
8– Channel Sluice Gate(60X60 cm)
9– Dumping Trolley.
10– ø12" UPVC Inlet Pipe.
11– Electical Hoist 1 ton
12– I Beam for Electical Hoist Movement
13– Steel Elbow ø4" 90 Degree with Flange
14– Steel Pipe ø2".
15– Gate Valve ø2"
16– ø4" Oil Pressure Gage 0–16 bar
17– Air Valve for Sewage Water.
18– ø 4" Nonreturn Valve.
19– ø4" Gate Valve.
20– ø4" Flange Dresser.
21– ø8" Steel Pipe For Manifold.
22– ø8" Electromagnatic Flowmeter.
23– Flange Dresser ø8".
24– ø8" Gate Valve.
25– ø8" Steel Elbow 45 Degree.
38– Stainless steel Platforms.
40– Steel Cover (0.90X1.20).
41– Concrete Jack Supports.
42– Thrust Block.

NOTES:

- THE CONTRATOR MUST SUBMIT DETAILED WORKSHOP DRAWINGS FOR ALL WORKS ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- ALL CIVIL WORKS RELATED TO MECHANICAL & ELECTRICAL WORKS MUST BE CARRIED OUT ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- THE WET WELL & SEDEMINATAION STRUCTURE DIMENSIONS SHALL BE VARIABLE TO COMPLY WITH THE EQUIPMENT'S REQUIREMENTS.
- ALL THE CONCRETE UP TO THE PLAINTH LEVEL MUST BE ISOLATED BY APPLYING TWO COATS OF HOT BITUMEN WITH PRIMER
- IF THERE IS ANY DISCRAPENCY IN THE DRAWINGS, THE CONTRACTOR HAS TO INFORM THE ENGINEER AND HE MUST CONSIDER IT IN HIS PRICE AT TENDERING STAGE
- STRUCTURAL DRAWINGS SHALL BE READ IN CONJUCTION WITH ARCH., ELEC., & MECH. DRAWINGS
- BACKFILLING MUST BE CARRIED OUT BY Sand IN LAYERS 25CM THICK EACH LAYER HAS 95% COMPACTION

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

DONATED BY:

GOVERNMENT OF JAPAN

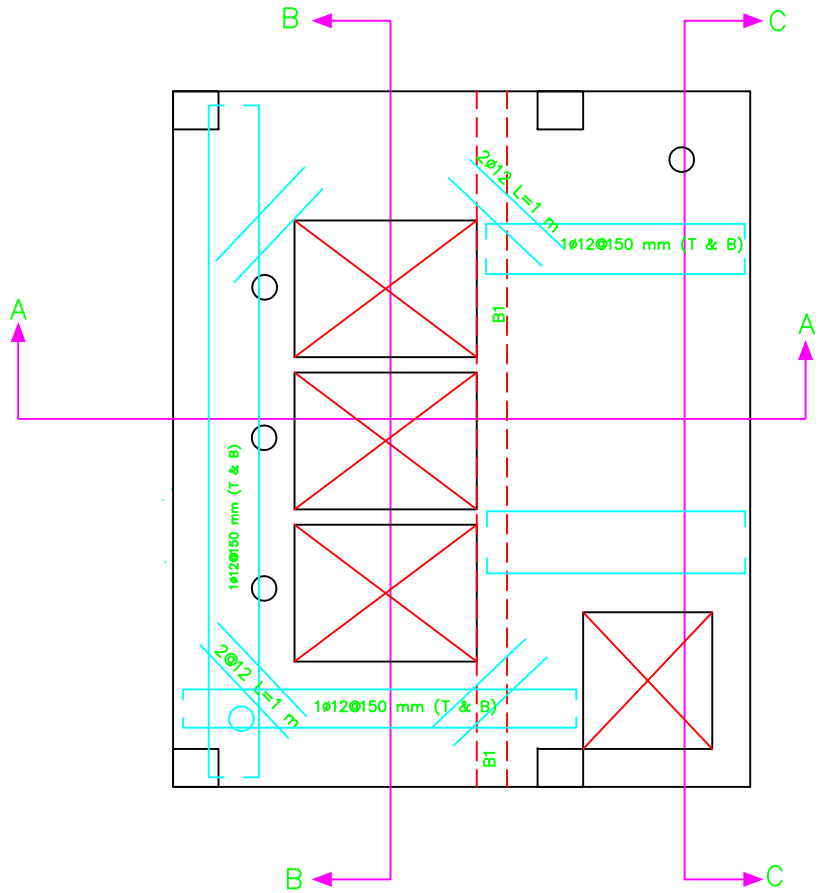
IMPLEMENTED BY:

UNDP

PROJECT:-
CONSTRUCTION OF INFRASTRUCTURE WORKS IN KHANYOUNIS PROJECT (PACKAGE 4)

DRAWING NAME:-
Sump Wet Well Details-3

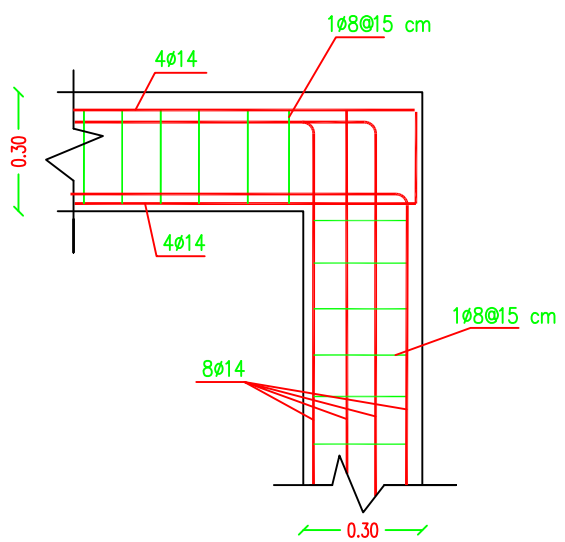
Symbol	Drawing No.:	Rev. No.
RES	ME-03	R1



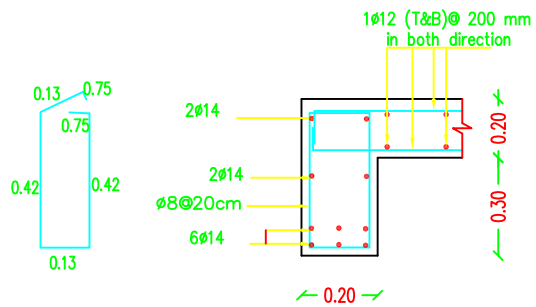
ROOF SLAB FOR THE SUMP WET WELL

SCALE 1 : 50

FOR TENDER ONLY



Typical Section in Crane Conrete Frame



Typical Section in B1

NOTES:

- STRUCTURAL DIMENSIONS MUST BE COORDINATED WITH THE MANUFACTURER DIMENSIONS & INSTRUCTIONS.
- All the concrete up to the plinth level must be isolated by applying two coats of hot bitumen..
- If there is any discrapency in the drawings,the contractor has to inform the engineer and he must consider it in his price at tendering stage.
- Structural drawings shall be read in conjuction with arch. , elec. & mechanical drawings.
- Concrete must be ready mix concrete.
- Backfilling must be carried out by Sand in layers 25cm thick each layer 95%.
- Reinforced concrete class is 300kg/cm2.
- Plain concrete class is B200
- Steel yield strength =420N/mm2 & shall comply with ASTM A-615.
- Steel Reinforcment must be arranged in staggered lap. OVER LAP MUST BE 50 Y LARGER DIMETER
- Concrete cover for columns, Walls. ,beams & slabs =50mm.
- Concrete cover for foundations =50mm.
- Soil bearing capacity is 1.50 kg/cm2.
- Additives must be added for the concrete mix according to the manufacturer instructions

No.	Description	Date	By
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

DONATED BY:

GOVERNMENT OF JAPAN

IMPLEMENTED BY:

UNDP

PROJECT:-

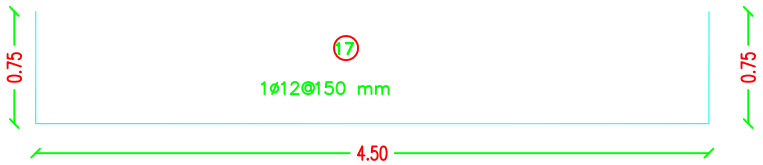
CONSTRUCTION OF INFRASTRUCTURE WORKS IN KHANYOUNIS PROJECT (PACKAGE 4)

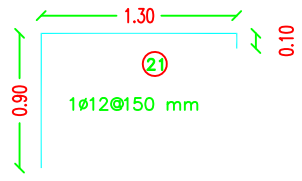
DRAWING NAME:-

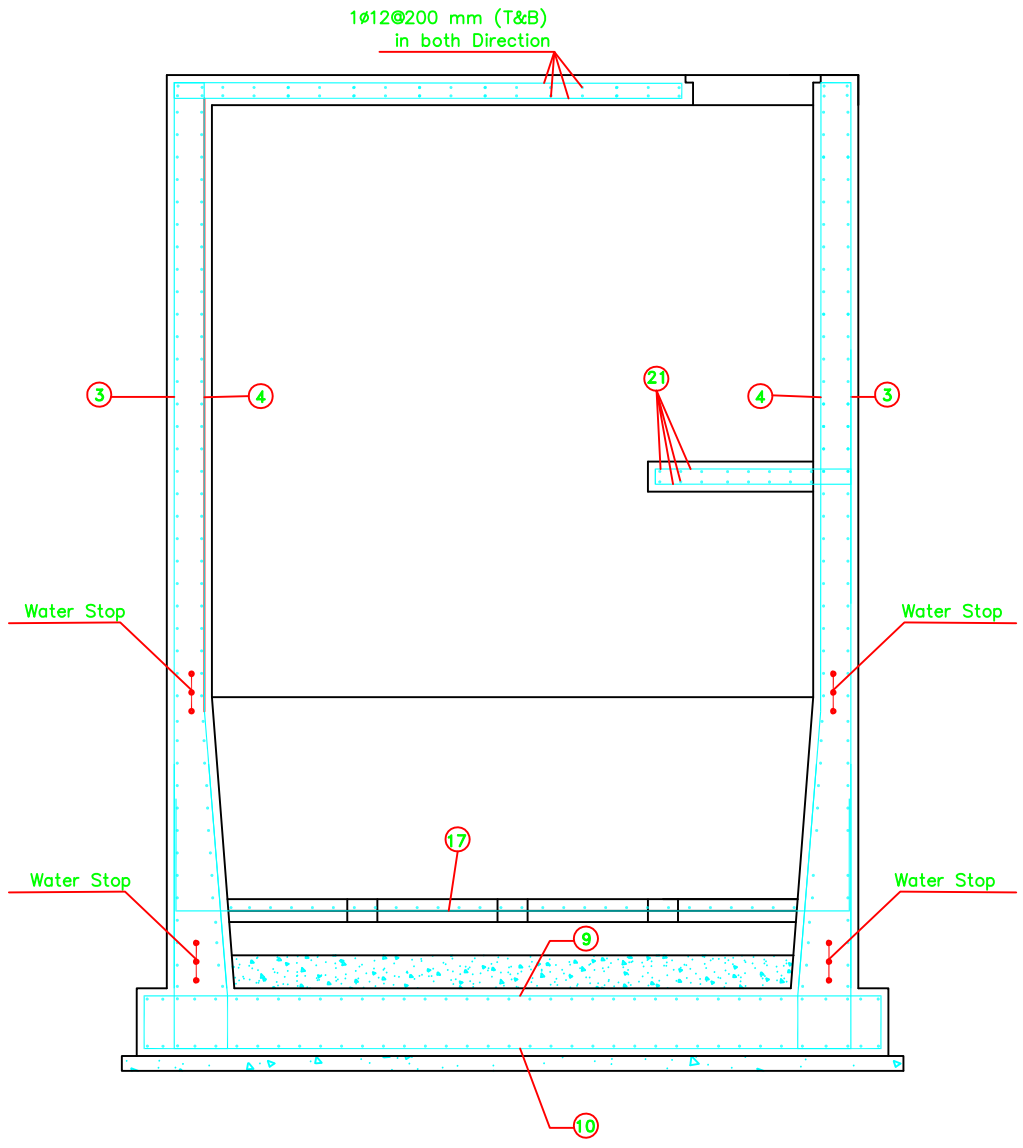
Roof Slab For The Sump Wet Well Reinforcement Details

Symbol	Drawing No.:	Rev. No.
RES	C-01	R1

FOR TENDER ONLY







SECTION C–C IN THE SUMP WET WELL

SCALE 1 : 50

NOTES:

- STRUCTURAL DIMENSIONS MUST BE COORDINATED WITH THE MANUFACTURER DIMENSIONS & INSTRUCTIONS.
- All the concrete up to the plinth level must be isolated by applying two coats of hot bitumen..
- If there is any discrapency in the drawings,the contractor has to inform the engineer and he must consider it in his price at tendering stage.
- Structural drawings shall be read in conjuction with arch. , elec. & mechanical drawings.
- Concrete must be ready mix concrete.
- Backfilling must be carried out by Sand in layers 25cm thick each layer 95%.
- Reinforced concrete class is 300kg/cm2.
- Plain concrete class is B200
- Steel yield strength =420N/mm2 & shall comply with ASTM A-615.
- Steel Reinforcment must be arranged in staggered lap. OVER LAP MUST BE 50 Y LARGER DIMETER
- Concrete cover for columns, Walls. ,beams & slabs =50mm.
- Concrete cover for foundations =50mm.
- Soil bearing capacity is 1.50 kg/cm2.
- Additives must be added for the concrete mix according to the manufacturer instructions

No.	Description	Date	By
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

DONATED BY:

GOVERNMENT OF JAPAN

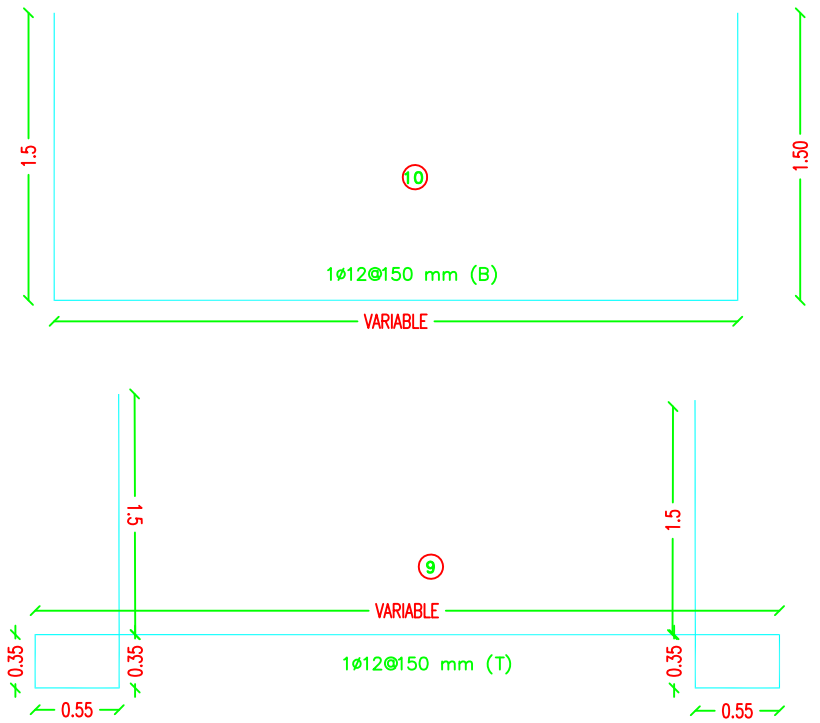
IMPLEMENTED BY:

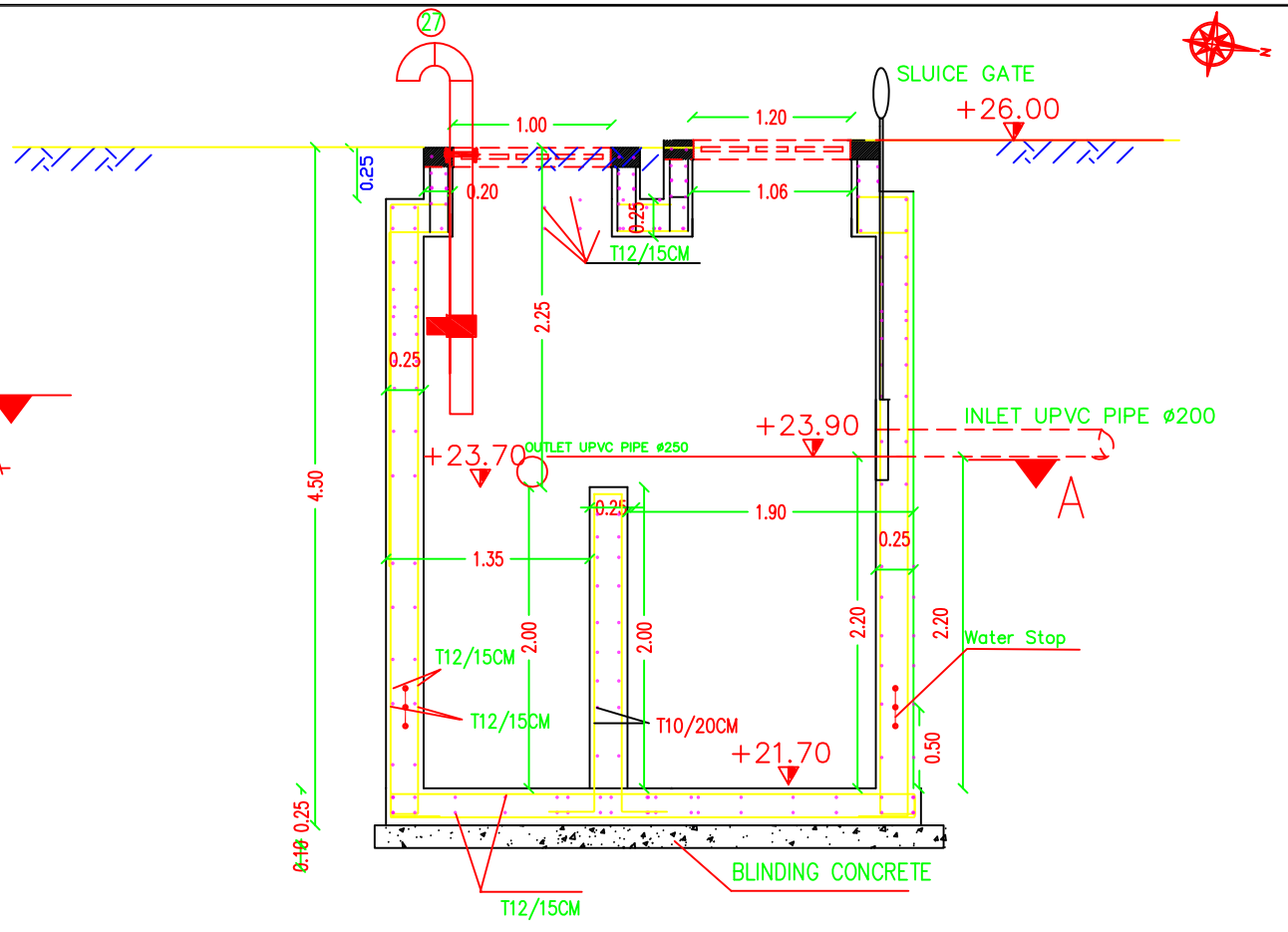
UNDP

PROJECT:-
CONSTRUCTION OF INFRASTRUCTURE WORKS IN KHANYOUNIS PROJECT (PACKAGE 4)

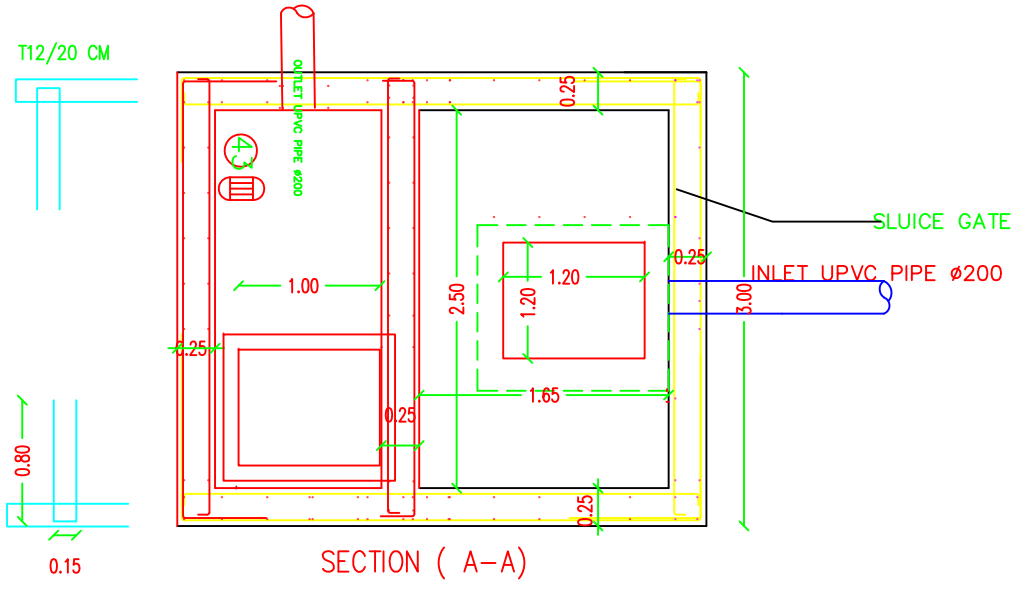
DRAWING NAME:-
SECTION C-C IN THE SUMP WET WELL
Reinforcement Details

Symbol	Drawing No.:	Rev. No.
RES	C-06	R1





SEDIMENTATION STRUCTURE



SECTION (A-A)

1- Submersible Sewage Pump.
4- Stainless Steel Ladder
5- Stainless Steel Manual Bar Screen
6- Mechaical Bar Screen.
7- Sluice Gate Wall Mounted (ø40 cm)
7- Channel Sluice Gate (60*60 cm)

10- ø12" UPVC Inlet Pipe.
26- Pump Base.
38- Aluminum Platforms.
43-Ventilation Steel Pipe ø4".

NOTES:

- STRUCTURAL DIMENSIONS MUST BE COORDINATED WITH THE MANUFACTURER DIMENSIONS & INSTRUCTIONS.
- All the concrete up to the plinth level must be isolated by applying two coats of hot bitumen..
- If there is any discrapency in the drawings,the contractor has to inform the engineer and he must consider it in his price at tendering stage.
- Structural drawings shall be read in conjuction with arch. , elec. & mechanical drawings.
- Concrete must be ready mix concrete.
- Backfilling must be carried out by Sand in layers 25cm thick each layer 95%.
- Reinforced concrete class is 300kg/cm2.
- Plain concrete class is B200
- Steel yield strength =420N/mm2 & shall comply with ASTM A-615.
- Steel Reinforcment must be arranged in staggered lap. OVER LAP MUST BE 50 Y LARGER DIMETER
- Concrete cover for columns, Walls. ,beams & slabs =50mm.
- Concrete cover for foundations =50mm.
- Soil bearing capacity is 1.50 kg/cm2.
- Additives must be added for the concrete mix according to the manufacturer instructions

No.	Description	Date	By
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

DONATED BY:

GOVERNMENT OF JAPAN

IMPLEMENTED BY:

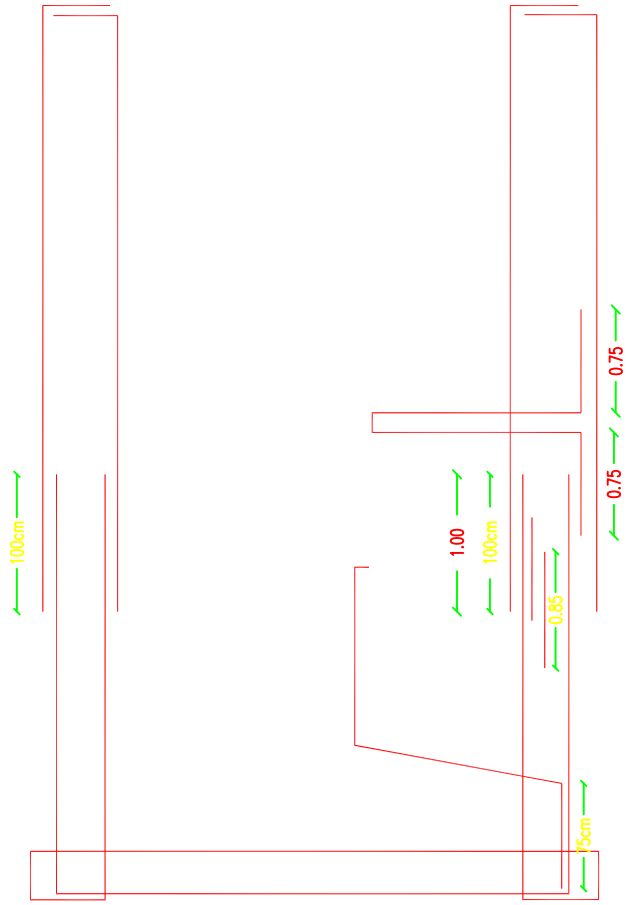
UNDP

PROJECT:-
CONSTRUCTION OF INFRASTRUCTURE WORKS IN KHANYOUNIS PROJECT (PACKAGE 4)

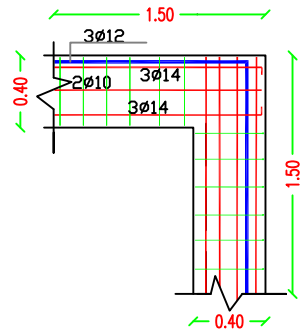
DRAWING NAME:-
Sump Wet Well Details-2

Symbol	Drawing No.:	Rev. No.
RES	ME-02	R1

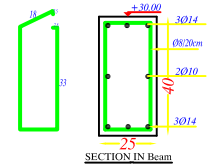
FOR TENDER ONLY



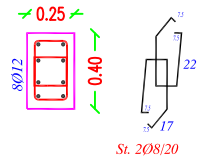
SECTION A–A IN THE SUMP WET WELL SCALE 1 : 50



Detail A
Conection of Beam with column



SECTION IN Beam



Columns Section

NOTES:

- STRUCTURAL DIMENSIONS MUST BE COORDINATED WITH THE MANUFACTURER DIMENSIONS & INSTRUCTIONS.
- All the concrete up to the plinth level must be isolated by applying two coats of hot bitumen..
- If there is any discrapency in the drawings,the contractor has to inform the engineer and he must consider it in his price at tendering stage.
- Structural drawings shall be read in conjuction with arch. , elec. & mechanical drawings.
- Concrete must be ready mix concrete.
- Backfilling must be carried out by Sand in layers 25cm thick each layer 95%.
- Reinforced concrete class is 300kg/cm2.
- Plain concrete class is B200
- Steel yield strength =420N/mm2 & shall comply with ASTM A-615.
- Steel Reinforcment must be arranged in staggered lap. OVER LAP MUST BE 50 Y LARGER DIMETER
- Concrete cover for columns, Walls. ,beams & slabs =50mm.
- Concrete cover for foundations =50mm.
- Soil bearing capacity is 1.50 kg/cm2.
- Additives must be added for the concrete mix according to the manufacturer instructions

NOTE: CRANE COLUMN LONG REINFORCEMENT LAPPED ON ROOF AND WALL MORE THAN 1.50M

No.	Description	Date	By
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

DONATED BY:

GOVERNMENT OF JAPAN

IMPLEMENTED BY:

UNDP

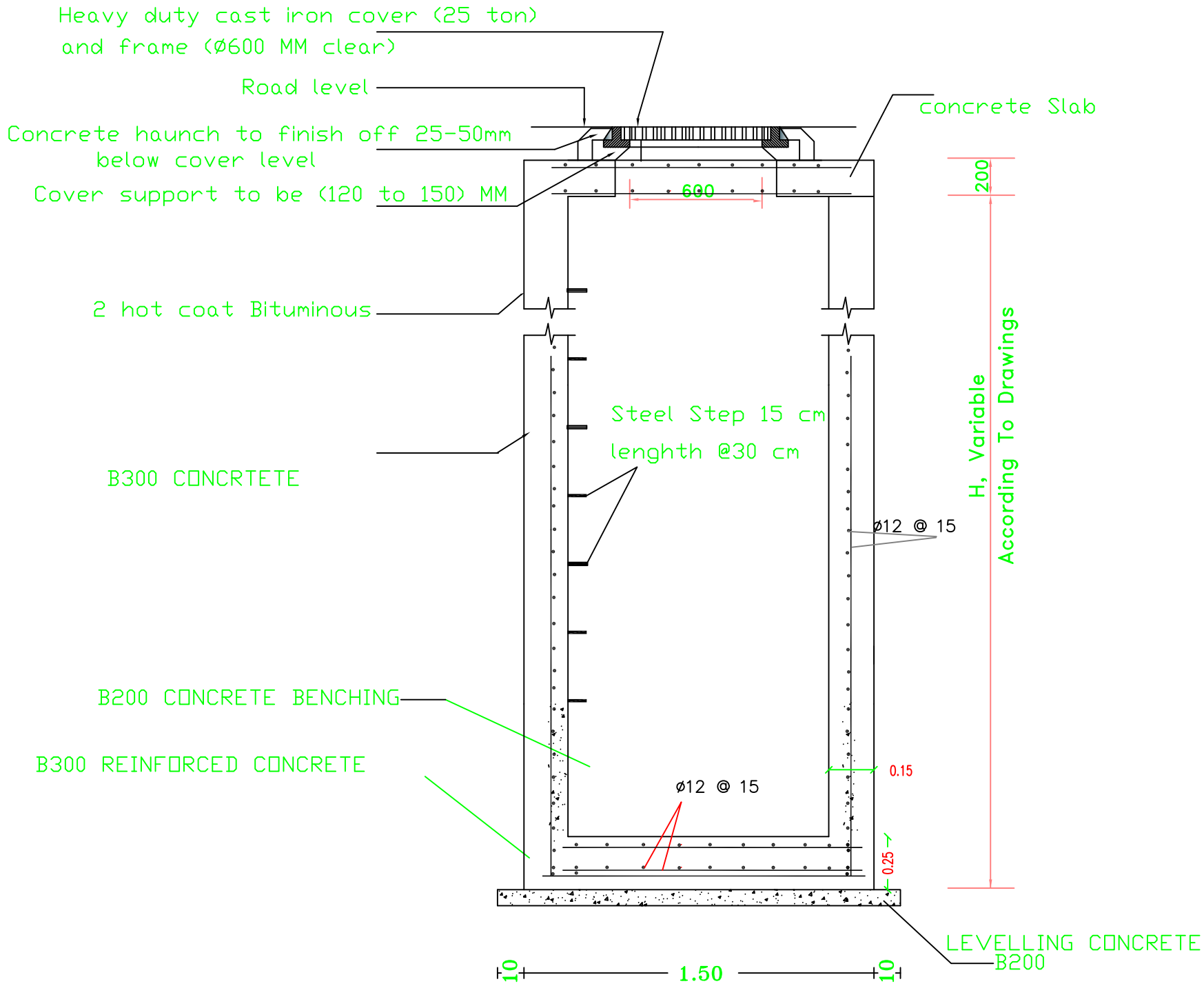
PROJECT:-

CONSTRUCTION OF INFRASTRUCTURE WORKS IN KHANYOUNIS PROJECT (PACKAGE 4)

DRAWING NAME:-

Sump Wet Well Details-3

Symbol	Drawing No.:	Rev. No.
RES	ME-03	R1



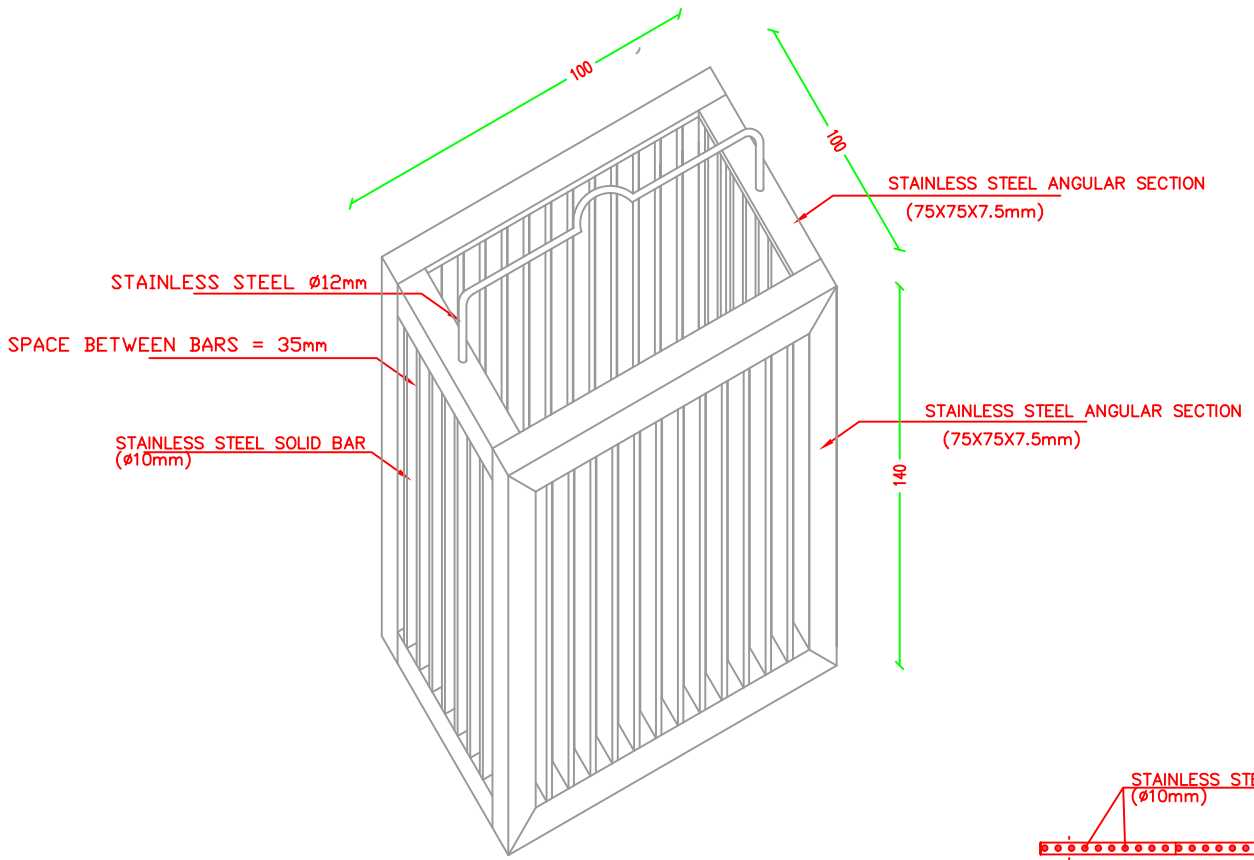
MANHOLE DETAILS

GOVERNMENT OF JAPAN

UNITED NATIONS DEVELOPMENT PROGRAMME
PROGRAMME OF ASSISTANCE TO THE
PALESTINIAN PEOPLE

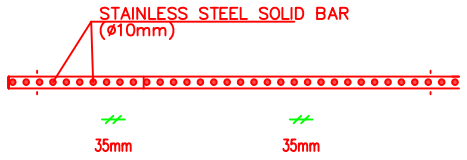
CONSTRUCTION OF INFRASTRUCTURE WORKS
IN KHANYOUNIS PROJECT (PACKAGE 4)

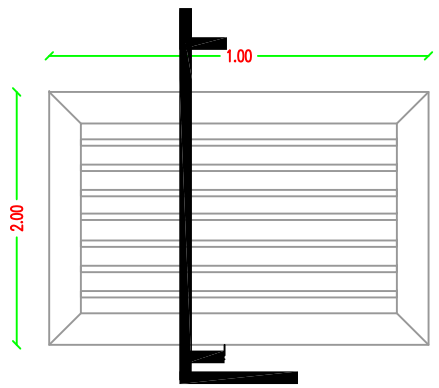
RESIDENTIAL BUILDING



SIDE VIEW

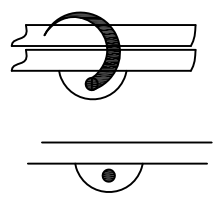
SCALE 1:10





BUTTOM VIEW

SCALE 1:10



STAINLESS STEEL BAR SCREEN (BASKET)

FOR TENDER ONLY

NOTES:

- THE CONTRATOR MUST SUBMIT DETAILED WORKSHOP DRAWINGS FOR ALL WORKS ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- ALL CIVIL WORKS RELATED TO MECHANICAL & ELECTRICAL WORKS MUST BE CARRIED OUT ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- THE WET WELL & SEDEMINTATION INTERNAL DIMENSIONS SHALL BE VARIABLE TO COMPLY WITH THE EQUIPMENT'S REQUIREMENTS.
- ALL THE CONCRETE UP TO THE PLAINTH LEVEL MUST BE ISOLATED BY APPLYING TWO COATS OF HOT BITUMEN
- IF THERE IS ANY DISCRAPENCY IN THE DRAWINGS, THE CONTRACTOR HAS TO INFORM THE ENGINEER AND HE MUST CONSIDER IT IN HIS PRICE AT TENDERING STAGE
- STRUCTURAL DRAWINGS SHALL BE READ IN CONJUCTION WITH ARCH., ELEC., & MECH. DRAWINGS
- BACKFILLING MUST BE CARRIED OUT BY SAND IN LAYERS 25CM THICK EACH LAYER HAS 97% COMPACTION

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

DONATED BY:

GOVERNMENT OF JAPAN

IMPLEMENTED BY:

UNDP

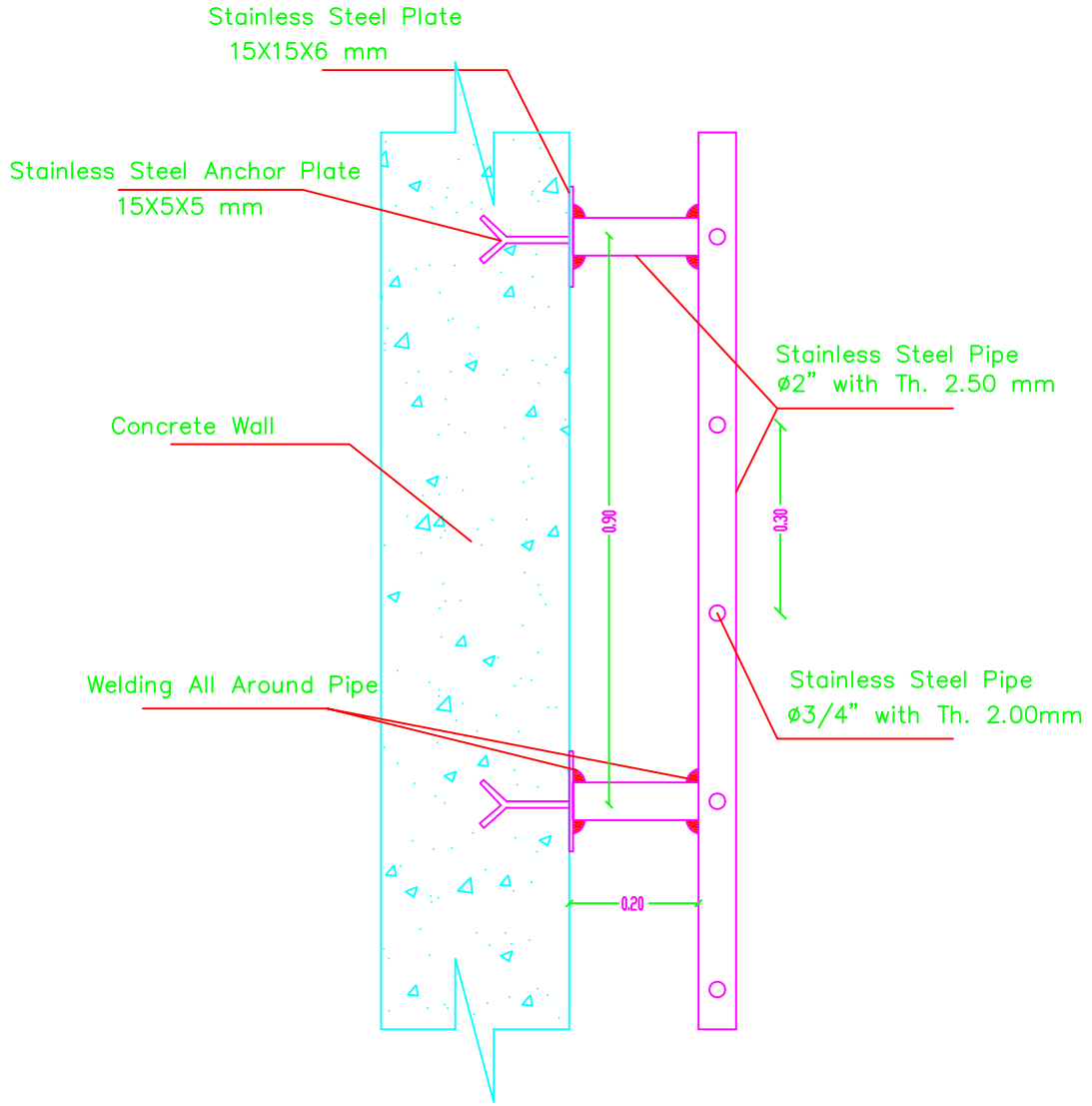
PROJECT:-

CONSTRUCTION OF INFRASTRUCTURE WORKS IN KHANYOUNIS PROJECT (PACKAGE 4)

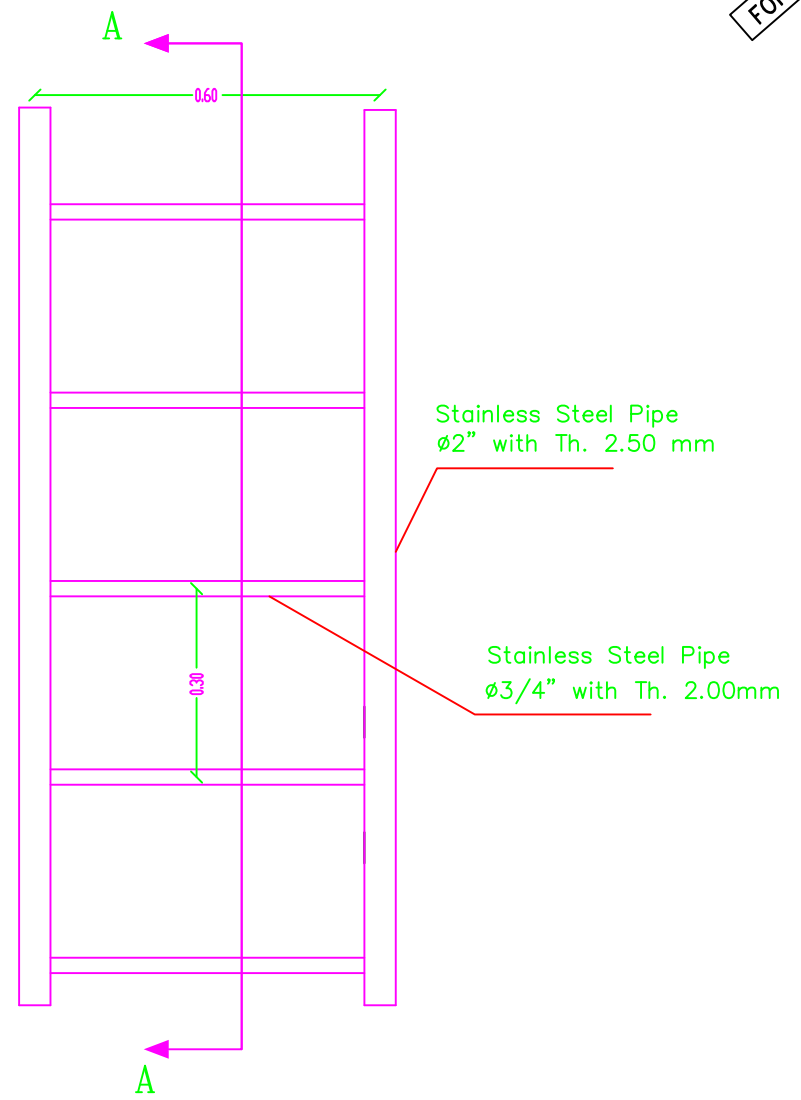
DRAWING NAME:-

Steel Cover Details

Symbol	Drawing No.:	Rev. No.
RES	ME-11	R1



Section A–A in Ladder
SCALE 1 : 10



Typical Plan in Ladder
SCALE 1 : 10

LADDER DETAILS

FOR TENDER ONLY

NOTES:

- THE CONTRATOR MUST SUBMIT DETAILED WORKSHOP DRAWINGS FOR ALL WORKS ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- ALL CIVIL WORKS RELATED TO MECHANICAL & ELECTRICAL WORKS MUST BE CARRIED OUT ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- THE WET WELL & SEDIMENTAION STRUCTURE INTERNAL DIMENSIONS SHALL BE VARIABLE TO COMPLY WITH THE EQUIPMENT'S REQUIREMENTS.
- ALL THE CONCRETE UP TO THE PLAINTH LEVEL MUST BE ISOLATED BY APPLYING TWO COATS OF HOT BITUMEN
- IF THERE IS ANY DISCRAPENCY IN THE DRAWINGS, THE CONTRACTOR HAS TO INFORM THE ENGINEER AND HE MUST CONSIDER IT IN HIS PRICE AT TENDERING STAGE
- STRUCTURAL DRAWINGS SHALL BE READ IN CONJUCTION WITH ARCH., ELEC., & MECH. DRAWINGS
- BACKFILLING MUST BE CARRIED OUT BY SAND IN LAYERS 25CM THICK EACH LAYER HAS 97% COMPACTION

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

DONATED BY:

GOVERNMENT OF JAPAN

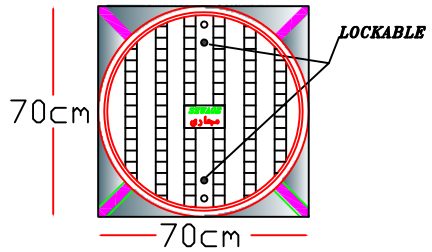
IMPLEMENTED BY:

UNDP

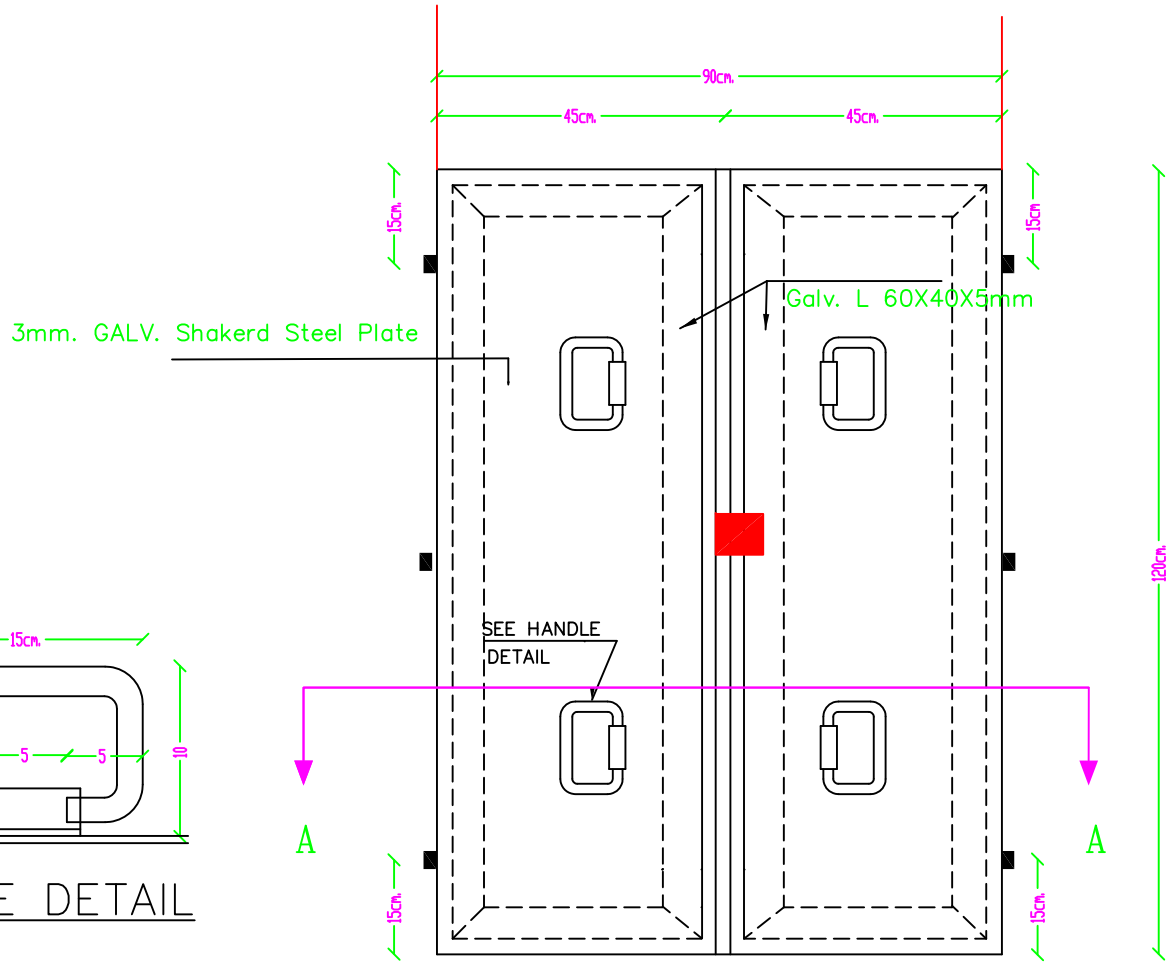
PROJECT:-
CONSTRUCTION OF INFRASTRUCTURE WORKS IN KHANYOUNIS PROJECT (PACKAGE 4)

DRAWING NAME:-
Ladder Details

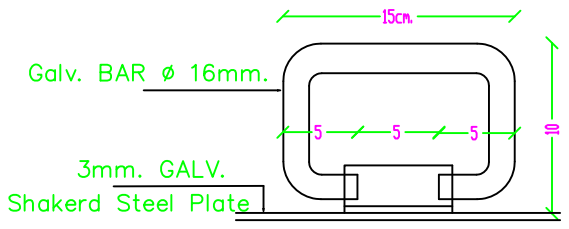
Symbol	Drawing No.:	Rev. No.
RES	ME-10	R1



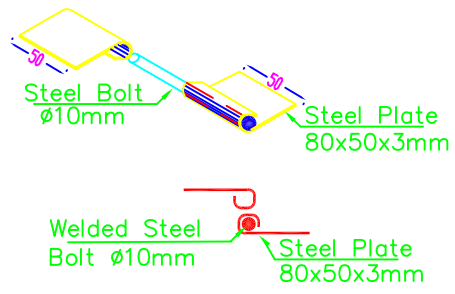
نماذج اغطية المناهل
حمولة ٢٥ طن فتحة ٦٠ سم



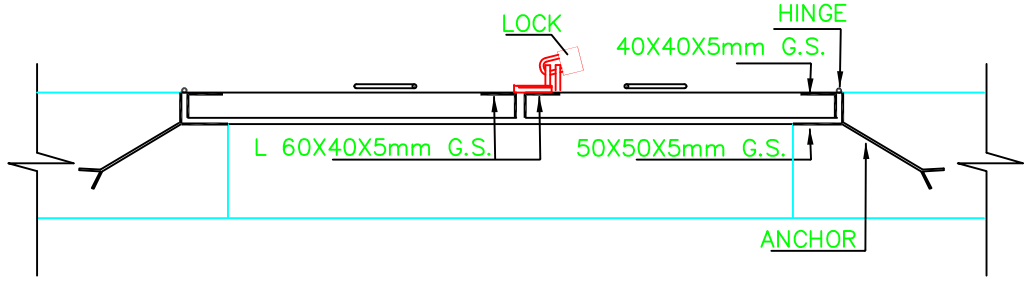
STEEL COVER (120X90 cm)
SCALE 1 : 10



HANDLE DETAIL



Detail of The Hinge
NOT TO SCALE



SECTION A: A
SCALE 1 : 10

FOR TENDER ONLY

NOTES:

- THE CONTRATOR MUST SUBMIT DETAILED WORKSHOP DRAWINGS FOR ALL WORKS ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- ALL CIVIL WORKS RELATED TO MECHANICAL & ELECTRICAL WORKS MUST BE CARRIED OUT ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- THE WET WELL & SEDMENTATION INTERNAL DIMENSIONS SHALL BE VARIABLE TO COMPLY WITH THE EQUIPMENT'S REQUIREMENTS.
- ALL THE CONCRETE UP TO THE PLAINTH LEVEL MUST BE ISOLATED BY APPLYING TWO COATS OF HOT BITUMEN
- IF THERE IS ANY DISCRAPENCY IN THE DRAWINGS, THE CONTRACTOR HAS TO INFORM THE ENGINEER AND HE MUST CONSIDER IT IN HIS PRICE AT TENDERING STAGE
- STRUCTURAL DRAWINGS SHALL BE READ IN CONJUCTION WITH ARCH., ELEC., & MECH. DRAWINGS
- BACKFILLING MUST BE CARRIED OUT BY SAND IN LAYERS 25CM THICK EACH LAYER HAS 97% COMPACTION

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

DONATED BY:

GOVERNMENT OF JAPAN

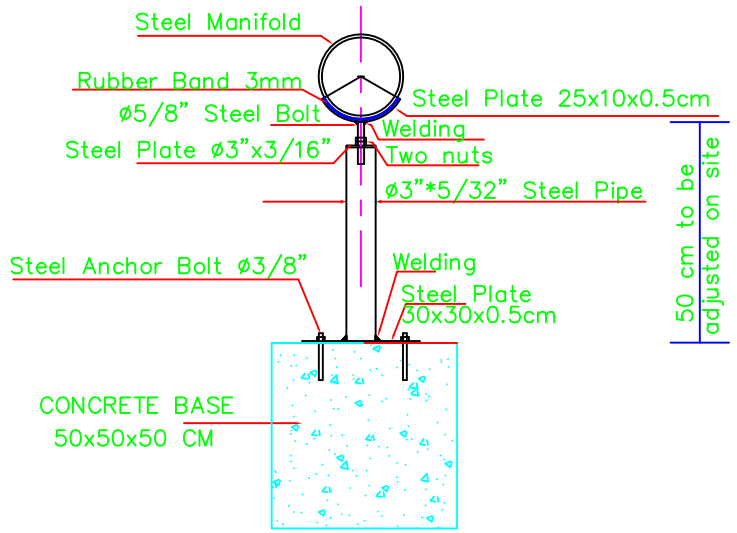
IMPLEMENTED BY:

UNDP

PROJECT:-
CONSTRUCTION OF INFRASTRUCTURE WORKS IN KHANYOUNIS PROJECT (PACKAGE 4)

DRAWING NAME:-
Steel Cover Details

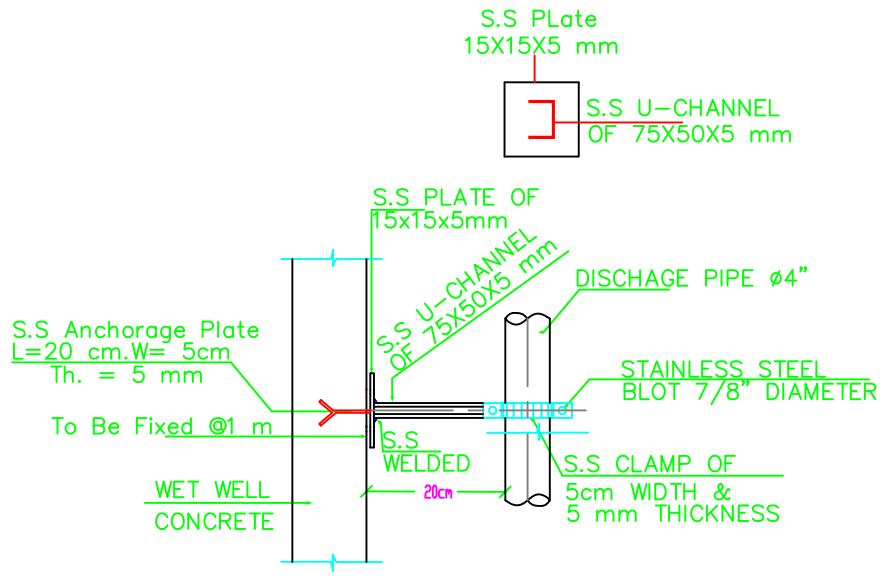
Symbol	Drawing No.:	Rev. No.
RES	ME-11	R1



Detail 2–2

Adjustable Jack Support detail

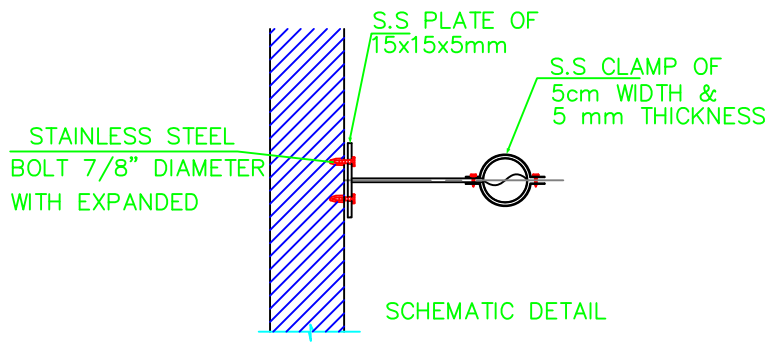
Scale 1:10



DETAILS 1–1

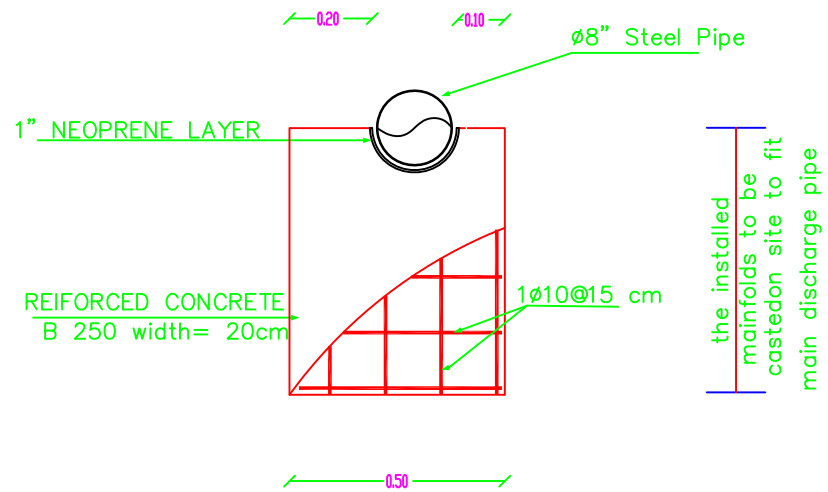
Raiser Pipe Fixaction Details

FOR TENDER ONLY



VERTICAL PIPES

SUPPORTING ASSEMBLY



Concrete Supports

NOTES:

- THE CONTRATOR MUST SUBMIT DETAILED WORKSHOP DRAWINGS FOR ALL WORKS ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- ALL CIVIL WORKS RELATED TO MECHANICAL & ELECTRICAL WORKS MUST BE CARRIED OUT ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- THE WET WELL & SEDIMENTAION STRUCTURE INTERNAL DIMENSIONS SHALL BE VARIABLE TO COMPLY WITH THE EQUIPMENT'S REQUIREMENTS.
- ALL THE CONCRETE UP TO THE PLAINTH LEVEL MUST BE ISOLATED BY APPLYING TWO COATS OF HOT BITUMEN
- IF THERE IS ANY DISCRAPENCY IN THE DRAWINGS, THE CONTRACTOR HAS TO INFORM THE ENGINEER AND HE MUST CONSIDER IT IN HIS PRICE AT TENDERING STAGE
- STRUCTURAL DRAWINGS SHALL BE READ IN CONJUCTION WITH ARCH., ELEC., & MECH. DRAWINGS
- BACKFILLING MUST BE CARRIED OUT BY SAND IN LAYERS 25CM THICK EACH LAYER HAS 95% COMPACTION

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

DONATED BY:

GOVERNMENT OF JAPAN

IMPLEMENTED BY:

UNDP

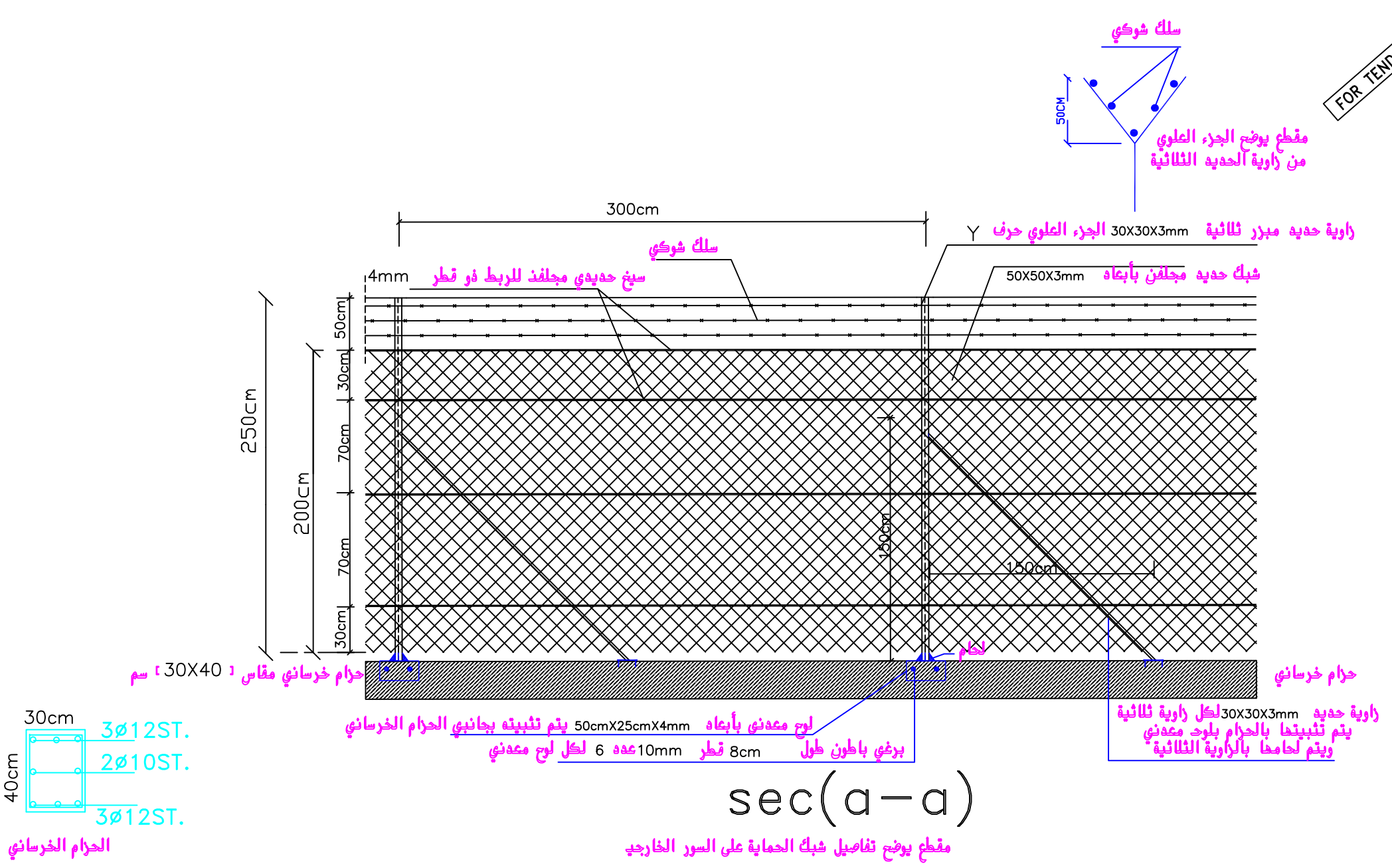
PROJECT:-

CONSTRUCTION OF INFRASTRUCTURE WORKS IN KHANYOUNIS PROJECT (PACKAGE 4)

DRAWING NAME:-

Support Details

Symbol	Drawing No.:	Rev. No.
RES	ME-12	R1



sec(a–a)

مقطع يوضح تفاصيل شبك الحماية على السور الخارجي

مخطط يوضح السياج الخارجي لغرفة المضخة مع مستلزماتها

FOR TENDER ONLY

NOTES:

- THE CONTRATOR MUST SUBMIT DETAILED WORKSHOP DRAWINGS FOR ALL WORKS ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- ALL CIVIL WORKS RELATED TO MECHANICAL & ELECTRICAL WORKS MUST BE CARRIED OUT ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- THE WET WELL & SEDMENTATION INTERNAL DIMENSIONS SHALL BE VARIABLE TO COMPLY WITH THE EQUIPMENT'S REQUIREMENTS.
- ALL THE CONCRETE UP TO THE PLAINTH LEVEL MUST BE ISOLATED BY APPLYING TWO COATS OF HOT BITUMEN
- IF THERE IS ANY DISCRAPENCY IN THE DRAWINGS, THE CONTRACTOR HAS TO INFORM THE ENGINEER AND HE MUST CONSIDER IT IN HIS PRICE AT TENDERING STAGE
- STRUCTURAL DRAWINGS SHALL BE READ IN CONJUCTION WITH ARCH., ELEC., & MECH. DRAWINGS
- BACKFILLING MUST BE CARRIED OUT BY SAND IN LAYERS 25CM THICK EACH LAYER HAS 97% COMPACTION

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

DONATED BY:

GOVERNMENT OF JAPAN

IMPLEMENTED BY:

UNDP

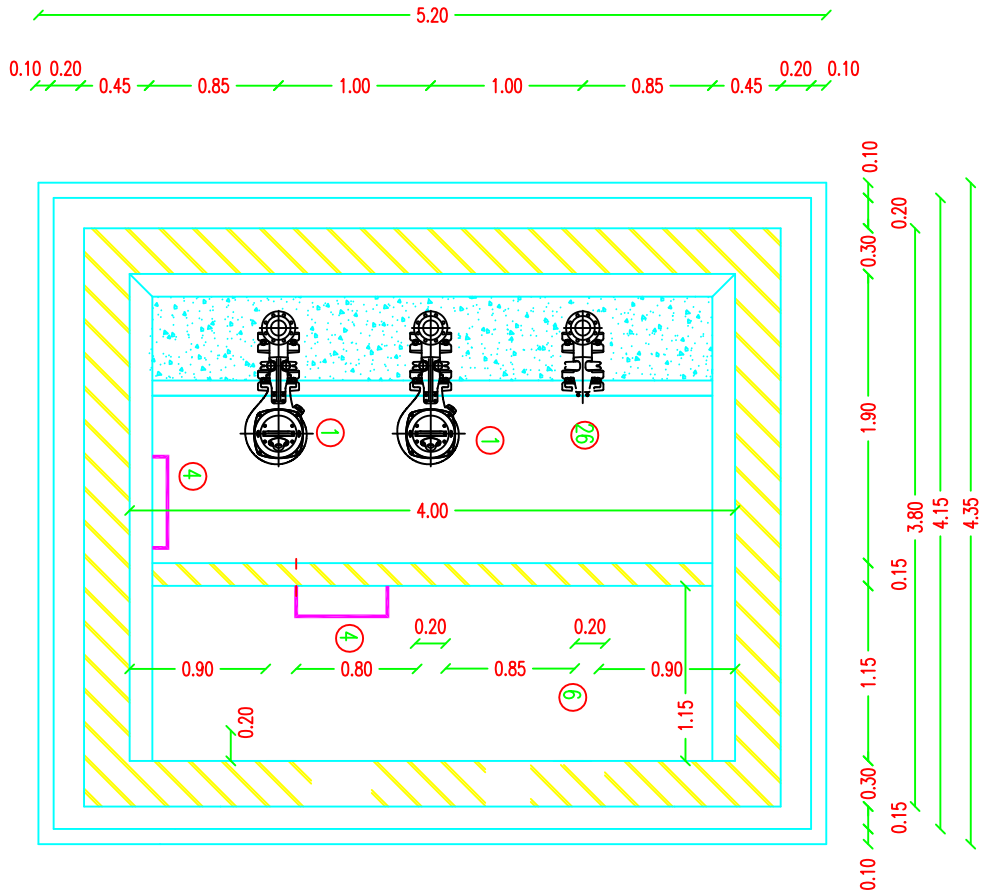
PROJECT:-

CONSTRUCTION OF INFRASTRUCTURE WORKS IN KHANYOUNS PROJECT (PACKAGE 4)

DRAWING NAME:-

Steel Cover Details

Symbol	Drawing No.:	Rev. No.
RES	ME-11	R1



SECTION E–E IN THE SUMP WET WELL

SCALE 1 : 50

1– Submersible Sewage Pump.
4– Stainless Steel Ladder
5– Stainless Steel Manual Bar Screen
6– Mechaical Bar Screen.
7– Sluice Gate Wall Mounted (ø40 cm)
7– Channel Sluice Gate (60*60 cm)

10– ø12" UPVC Inlet Pipe.
26– Pump Base.
38– Aluminum Platforms.

NOTES:

- THE CONTRATOR MUST SUBMIT DETAILED WORKSHOP DRAWINGS FOR ALL WORKS ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- ALL CIVIL WORKS RELATED TO MECHANICAL & ELECTRICAL WORKS MUST BE CARRIED OUT ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- THE WET WELL & SEDEMINATAION STRUCTURE DIMENSIONS SHALL BE VARIABLE TO COMPLY WITH THE EQUIPMENT'S REQUIREMENTS.
- ALL THE CONCRETE UP TO THE PLAINTH LEVEL MUST BE ISOLATED BY APPLYING TWO COATS OF HOT BITUMEN WITH PRIMER
- IF THERE IS ANY DISCRAPENCY IN THE DRAWINGS, THE CONTRACTOR HAS TO INFORM THE ENGINEER AND HE MUST CONSIDER IT IN HIS PRICE AT TENDERING STAGE
- STRUCTURAL DRAWINGS SHALL BE READ IN CONJUCTION WITH ARCH., ELEC., & MECH. DRAWINGS
- BACKFILLING MUST BE CARRIED OUT BY Sand IN LAYERS 25CM THICK EACH LAYER HAS 95% COMPACTION

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

DONATED BY:

GOVERNMENT OF JAPAN

IMPLEMENTED BY:

UNDP

PROJECT:-
CONSTRUCTION OF INFRASTRUCTURE WORKS IN KHANYOUNIS PROJECT (PACKAGE 4)

DRAWING NAME:-
Sump Wet Well Details-2

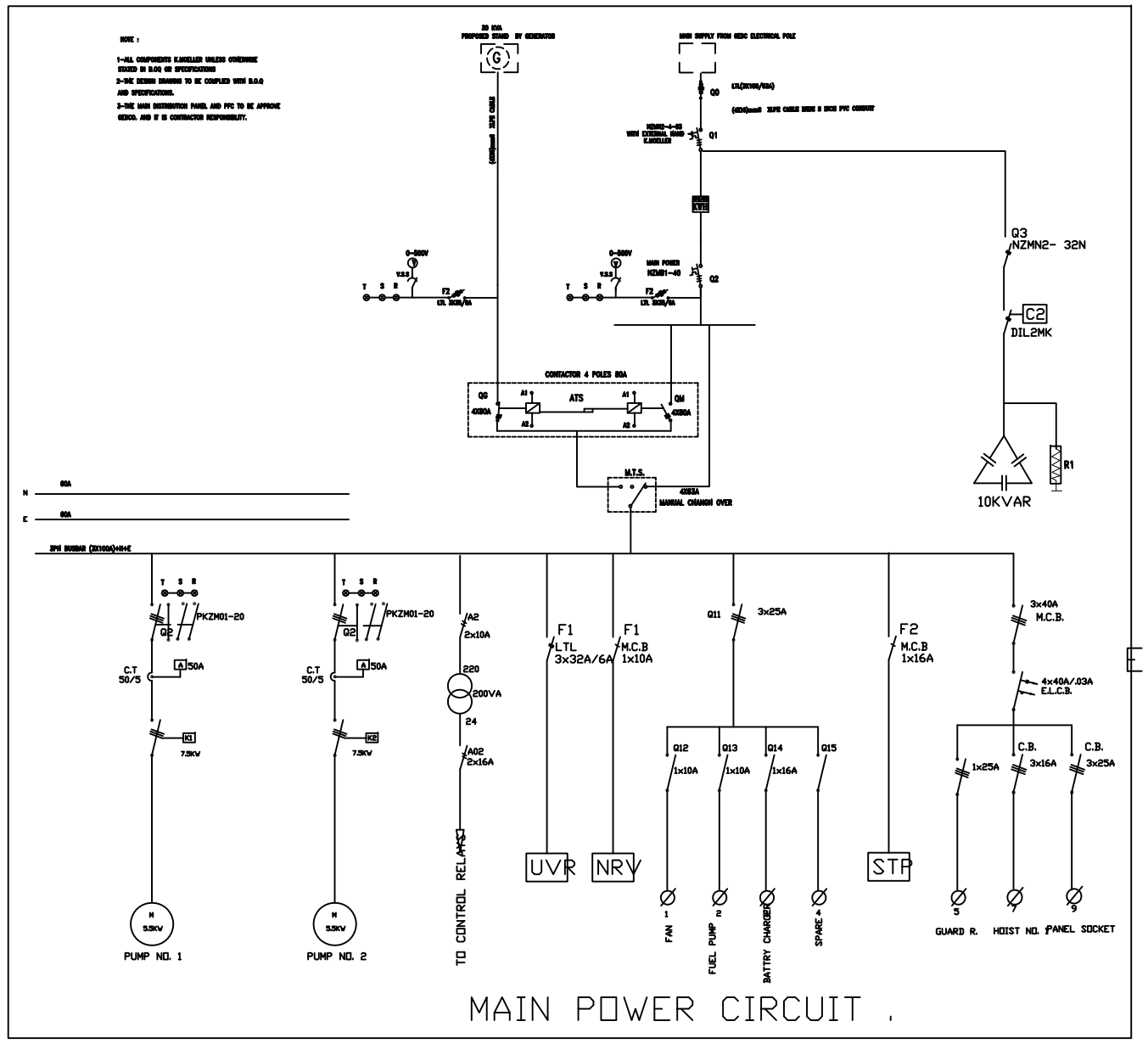
Symbol	Drawing No.:	Rev. No.
RES	ME-02	R1

NOTE :

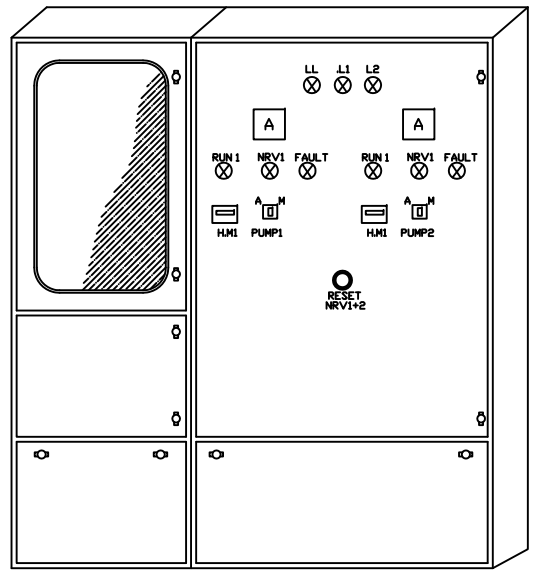
1-ALL COMPONENTS E.MCELLER UNLESS OTHERWISE STATED IN B.O.Q OR SPECIFICATIONS

2-THE SCHEM DRAWING TO BE COMPLIED WITH B.O.Q AND SPECIFICATIONS.

3-THE MAIN DISTRIBUTION PANEL AND PFC TO BE APPROVE GENCO. AND IT IS CONTRACTOR RESPONSIBILITY.



MAIN POWER CIRCUIT .



ELECTRICAL SWITH BOARD - GALVANISED STEEL
ANTI - STATIC PAINT GP FRAMEWORK

SEQUNCE OPERATION OF PUMPS

1-DUTY CYCLE OF FRST PUMP WILL OPERATE 50 %

2-DUTY CYCLE OF SECOND PUMP WILL OPERATE 50 %

3-INTERCHANGEBLE BETWWEN TWO PUMPS WILL BE DONE BY STEP RELAY AND CONTROL SYSTEM

4-LEVELS OF WET PIT WILL BE PERFORMED BY PULSER.

NOTES

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved
AKRAM ALMOGHRABI		AKRAM ALMOGHRABI	

Date	File Name	Scale
3/11/2011		1:100

DONATED BY:

GOVERNMENT OF JAPAN

IMPLEMENTED BY:

UNDP

PROJECT:

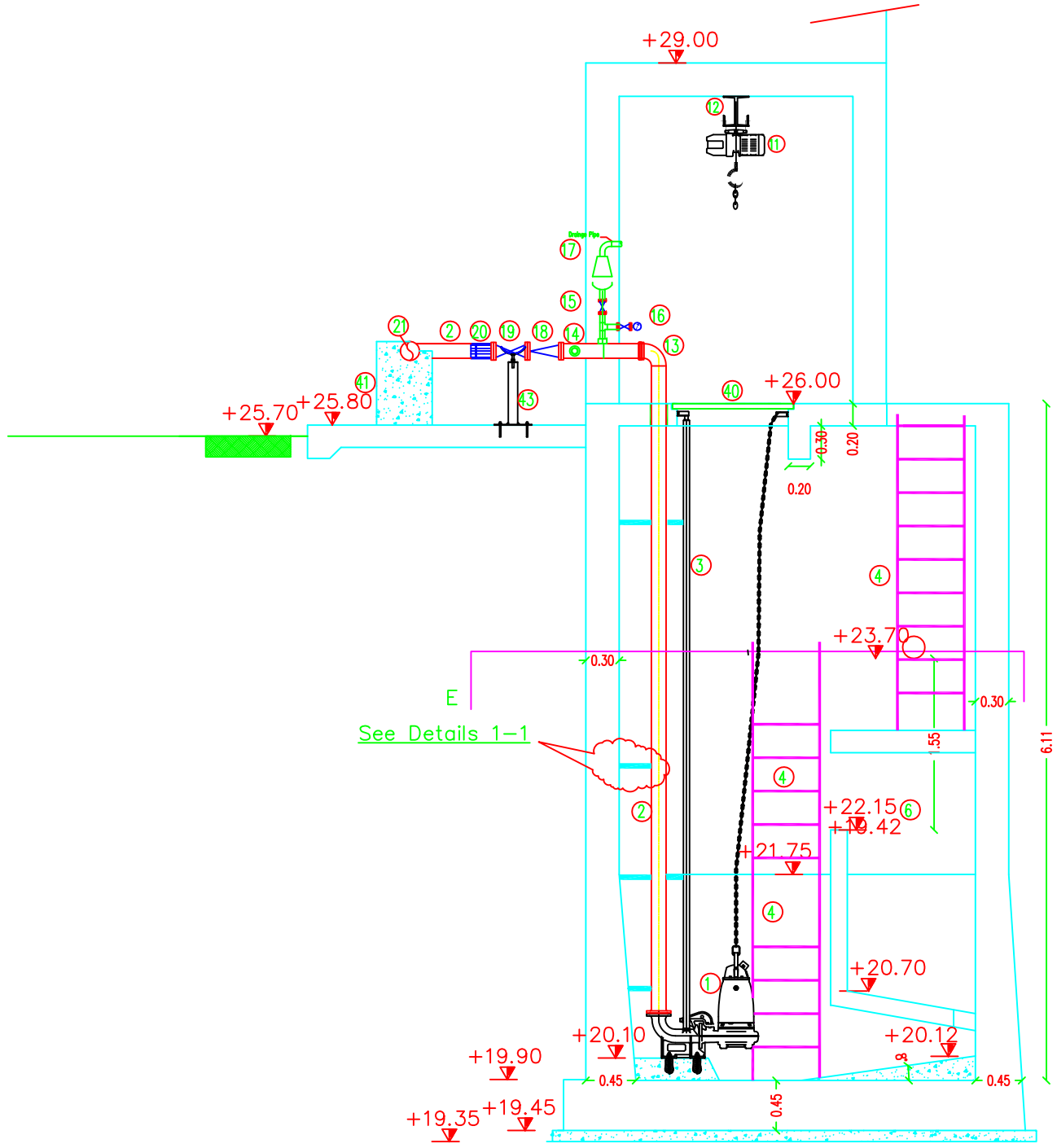
CONSTRUCTION OF INFRASTRUCTURE WORKS IN KHANYOUNIS PROJECT (PACKAGE 4)

DRAWING NAME:

MAIN DISTRIBUTION BOARDS DETAILS

Symbol	Drawing No.	Rev. No.
RES	E-01	R1

FOR TENDER ONLY



SECTION A–A IN THE SUMP WET WELL SCALE 1 : 50

1– Submersible Sewage Pump.
2– ø4" Steel Discharge Pipe.
3– ø2" Pump Lifiting Guide Rail.
4– Stainless Steel Ladder
5– Stainless Steel Manual Bar Screen
6– Mechaical Bar Screen.
7– Sluice Gate Wall Mounted (ø40cm)
8– Channel Sluice Gate(60X60 cm)
9– Dumping Trolley.
10– ø12" UPVC Inlet Pipe.
11– Electical Hoist 1 ton
12– I Beam for Electical Hoist Movement
13– Steel Elbow ø4" 90 Degree with Flange
14– Steel Pipe ø2".
15– Gate Valve ø2"
16– ø4" Oil Pressure Gage 0–16 bar
17– Air Valve for Sewage Water.
18– ø 4" Nonreturn Valve.
19– ø4" Gate Valve.
20– ø4" Flange Dresser.
21– ø8" Steel Pipe For Manifold.
22– ø8" Electromagnatic Flowmeter.
23– Flange Dresser ø8".
24– ø8" Gate Valve.
25– ø8" Steel Elbow 45 Degree.
38– Stainless steel Platforms.
40– Steel Cover (0.90X1.20).
41– Concrete Jack Supports.
42– Thrust Block.

NOTES:

- THE CONTRATOR MUST SUBMIT DETAILED WORKSHOP DRAWINGS FOR ALL WORKS ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- ALL CIVIL WORKS RELATED TO MECHANICAL & ELECTRICAL WORKS MUST BE CARRIED OUT ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- THE WET WELL & SEDEMINATAION STRUCTURE DIMENSIONS SHALL BE VARIABLE TO COMPLY WITH THE EQUIPMENT'S REQUIREMENTS.
- ALL THE CONCRETE UP TO THE PLAINTH LEVEL MUST BE ISOLATED BY APPLYING TWO COATS OF HOT BITUMEN WITH PRIMER
- IF THERE IS ANY DISCRAPENCY IN THE DRAWINGS, THE CONTRACTOR HAS TO INFORM THE ENGINEER AND HE MUST CONSIDER IT IN HIS PRICE AT TENDERING STAGE
- STRUCTURAL DRAWINGS SHALL BE READ IN CONJUCTION WITH ARCH., ELEC., & MECH. DRAWINGS
- BACKFILLING MUST BE CARRIED OUT BY Sand IN LAYERS 25CM THICK EACH LAYER HAS 95% COMPACTION

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

DONATED BY:

GOVERNMENT OF JAPAN

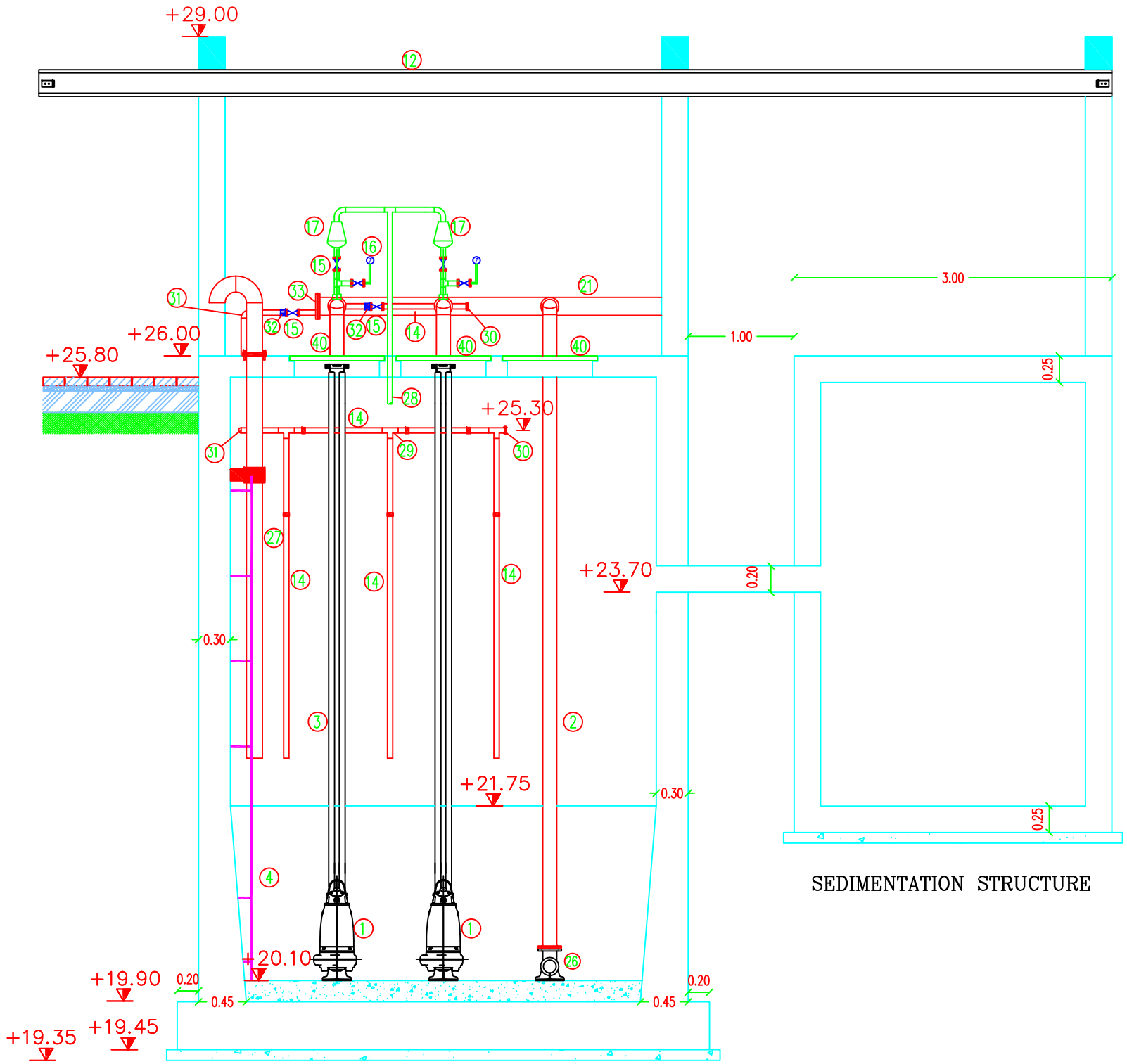
IMPLEMENTED BY:

UNDP

PROJECT:-
CONSTRUCTION OF INFRASTRUCTURE WORKS IN KHANYOUNIS PROJECT (PACKAGE 4)

DRAWING NAME:-
Sump Wet Well Details-3

Symbol	Drawing No.:	Rev. No.
RES	ME-03	R1



SECTION B–B IN THE SUMP WET WELL

SCALE 1 : 50

SEDIMENTATION STRUCTURE

FOR TENDER ONLY

NOTES:

- THE CONTRATOR MUST SUBMIT DETAILED WORKSHOP DRAWINGS FOR ALL WORKS ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- ALL CIVIL WORKS RELATED TO MECHANICAL & ELECTRICAL WORKS MUST BE CARRIED OUT ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- THE WET WELL & SEDEMINATAION STRUCTURE DIMENSIONS SHALL BE VARIABLE TO COMPLY WITH THE EQUIPMENT'S REQUIREMENTS.
- ALL THE CONCRETE UP TO THE PLAINTH LEVEL MUST BE ISOLATED BY APPLYING TWO COATS OF HOT BITUMEN WITH PRIMER
- IF THERE IS ANY DISCRAPENCY IN THE DRAWINGS, THE CONTRACTOR HAS TO INFORM THE ENGINEER AND HE MUST CONSIDER IT IN HIS PRICE AT TENDERING STAGE
- STRUCTURAL DRAWINGS SHALL BE READ IN CONJUCTION WITH ARCH., ELEC., & MECH. DRAWINGS
- BACKFILLING MUST BE CARRIED OUT BY Sand IN LAYERS 25CM THICK EACH LAYER HAS 95% COMPACTION

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

GOVERNMENT OF JAPAN

IMPLEMENTED BY:

UNDP

PROJECT:-
CONSTRUCTION OF INFRASTRUCTURE WORKS IN KHANYOUNIS PROJECT (PACKAGE 4)

DRAWING NAME:-
Sump Wet Well Details-5

Symbol	Drawing No.:	Rev. No.
RES	ME-05	R1

1– Submersible Sewage Pump.
2– ø4" Steel Discharge Pipe.
3– ø2" Pump Lifiting Guide Rail.
4– Stainless Steel Ladder
12– I Beam for Electical Hoist Movement
14– Steel Pipe ø2".
15– Gate Valve ø2"
16– ø4" Oil Pressure Gage 0–16 bar
17– Air Valve for Sewage Water.
21– ø8" Steel Pipe For Manifold.
26– Pump Base.
27– Ventilation Steel Pipe ø6".
28– PVC Drainge Pipe.
29– Steel T ø 2"/2".
30– Blind Flange ø2".
31– Steel Elbow ø2".
32– Flange Dresser ø2"
33– Blind Flange ø8".
40– Steel Cover (0.9X1.20).

1-PUMPS SPECIFICATIONS :

SUBMERSIBLE NON-CLOG PUMPS
CAPACITY :190.8M³/ H
HEAD : 28.00 M
PUMP POWER : 21.3 KW

MOTOR :
MOTOR POWER : 38.00 KW
MOTOR VOLTAGE : 400 V.,
3 PHASE, 50 HZ.
STARTING CURRENT: 410 A

TEMPERATURES:
MEDIUM 20C, MAX. PERMISSIBLE40C
IMPELLER : N-TYPE IMPELLER;
IMPELLER DIAMETER : 327MM
FREE PASSAGE : 76MM

MATERIAL :
PUMP CASING , INTERMEDIATE CASING ,
IMPELLER & MOTOR CASING : GG-25
SHAFT : 1.4021
PUMP OUTLET BRANCH : 150MM

2-BACK RAKED SCREEN :

BAR SPACING 15mm.
BAR SIZE 9mm. X 65mm.
BAR HEIGHT 740mm.
MOTOR RATING 2.2 kw.
SUPPLY 380V.,3PH., 50HZ
SCREEN MAXIMUM CAPACITY :53L/S

- 3-HOIST :
2000KG CAPACITY FOR PUMPES

4-VALVES LEGEND :
NRV: NONRETURN VALVE
I.V : ISOLATING VALVE
A.A.V : AUTO. AIR VENT

- THE CONTRATOR MUST SUBMIT DETAILED WORKSHOP DRAWINGS FOR ALL WORKS ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- ALL CIVIL WORKS RELATED TO MECHANICAL & ELECTRICAL WORKS MUST BE CARRIED OUT ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- THE WET WELL & BACK RAKED SCREEN INTERNAL DIMENSIONS SHALL BE VARIABLE TO COMPLY WITH THE EQUIPMENT'S REQUIREMENTS.
- STRUCTURAL DIMENSIONS MUST BE COORDINATED WITH THE MANUFACTURER DIMENSIONS & INSTRUCTIONS.
- DESIGN , DETAILING & WORKMANSHOP SHALL BE ACCORDING TO CODE OF PRACTICE FOR THE STRU. FOR RETAINING AQUEOUS LIQUIDS (BS 5337 : 1976).
- CONTRACTION JOINTS WILL BE PROVIDED AS SHOWN IN THE DRAWINGS.
- EXCAVATION LEVEL WILL BE AS SHOWN IN THE DRAWINGS.
- ALL THE CONCRETE UP TO THE PLAINTH LEVEL MUST BE ISOLATED BY APPLYING TWO COATS OF HOT BITUMEN
- IF THERE IS ANY DISCRAPENCY IN THE DRAWINGS, THE CONTRACTOR HAS TO INFORM THE ENGINEER AND HE MUST CONSIDER IT IN HIS PRICE AT TENDERING STAGE
- STRUCTURAL DRAWINGS SHALL BE READ IN CONJUCTION WITH ARCH., ELEC., & MECH. DRAWINGS
- CONCRETE MUST BE A READY MIX CONCRETE
- BACKFILLING MUST BE CARRIED OUT BY KURKAR IN LAYERS 25CM THICK EACH LAYER HAS 98% COMPACTION
- REINFORCED CONCRETE CLASS IS 300 KG/CM2
- PLAIN CONCRETE CLASS IS 200 KG/CM2
- STEEL YIELD STRENGTH= 420 N/MM2 & SHALL COMPLY WITH ASTM A-615
- STEEL REINFORCMENT MUST BE ARRANGED IN STAGGERED LAP
- CONCRETE COVER FOR COLUMNS, WALLS, BEAMS & SLABS = 50MM
- CONCRETE COVER FOR FOUNDATIONS = 50MM
- SOIL CAPACITY IS 2.0 KG/CM2
- ADDITIVES MUST BE ADDED TO THE CONCRETE MIX ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS & THE ENGINEER'S APPROVAL

- STRUCTURAL DIMENSIONS MUST BE COORDINATED WITH THE MANUFACTURER DIMENSIONS & INSTRUCTIONS.
- DESIGN , DETAILING & WORKMANSHOP SHALL BE ACCORDING TO CODE OF PRACTICE FOR THE STRU. FOR RETAINING AQUEOUS LIQUIDS (BS 5337 : 1976).
- CONTRACTION JOINTS WILL BE PROVIDED AS SHOWN IN THE DRAWINGS.
- ALL THE CONCRETE UP TO THE PLAINTH LEVEL MUST BE ISOLATED BY APPLYING TWO COATS OF HOT BITUMEN
- IF THERE IS ANY DISCRAPENCY IN THE DRAWINGS, THE CONTRACTOR HAS TO INFORM THE ENGINEER AND HE MUST CONSIDER IT IN HIS PRICE AT TENDERING STAGE
- STRUCTURAL DRAWINGS SHALL BE READ IN CONJUCTION WITH ARCH., ELEC., & MECH. DRAWINGS
- CONCRETE MUST BE A READY MIX CONCRETE
- BACKFILLING MUST BE CARRIED OUT BY KURKAR IN LAYERS 25CM THICK EACH LAYER HAS 98% COMPACTION
- REINFORCED CONCRETE CLASS IS 300 KG/CM2
- PLAIN CONCRETE CLASS IS 200 KG/CM2
- STEEL YIELD STRENGTH= 420 N/MM2 & SHALL COMPLY WITH ASTM A-615
- STEEL REINFORCMENT MUST BE ARRANGED IN STAGGERED LAP
- CONCRETE COVER FOR COLUMNS, WALLS, BEAMS & SLABS = 50MM
- CONCRETE COVER FOR FOUNDATIONS = 50MM
- SOIL CAPACITY IS 2.0 KG/CM2
- ADDITIVES MUST BE ADDED TO THE CONCRETE MIX ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS & THE ENGINEER'S APPROVAL
- THE CONTRATOR MUST SUBMIT DETAILED WORKSHOP DRAWINGS FOR ALL WORKS ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- ALL CIVIL WORKS RELATED TO MECHANICAL & ELECTRICAL WORKS MUST BE CARRIED OUT ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- THE WET WELL & BACK RAKED SCREEN INTERNAL DIMENSIONS SHALL BE VARIABLE TO COMPLY WITH THE EQUIPMENT'S REQUIREMENTS.

-PUMPS SPECIFICATIONS :

SUBMERSIBLE NON-CLOG PUMPS
CAPACITY : 65.0 M³/ H
HEAD : 18.00 M
PUMP POWER : 9.0 KW

MOTOR :
MOTOR POWER : 38.00 KW
MOTOR VOLTAGE : 400 V.,3 PHASE, 50 HZ.

STARTING CURRENT: 107 A

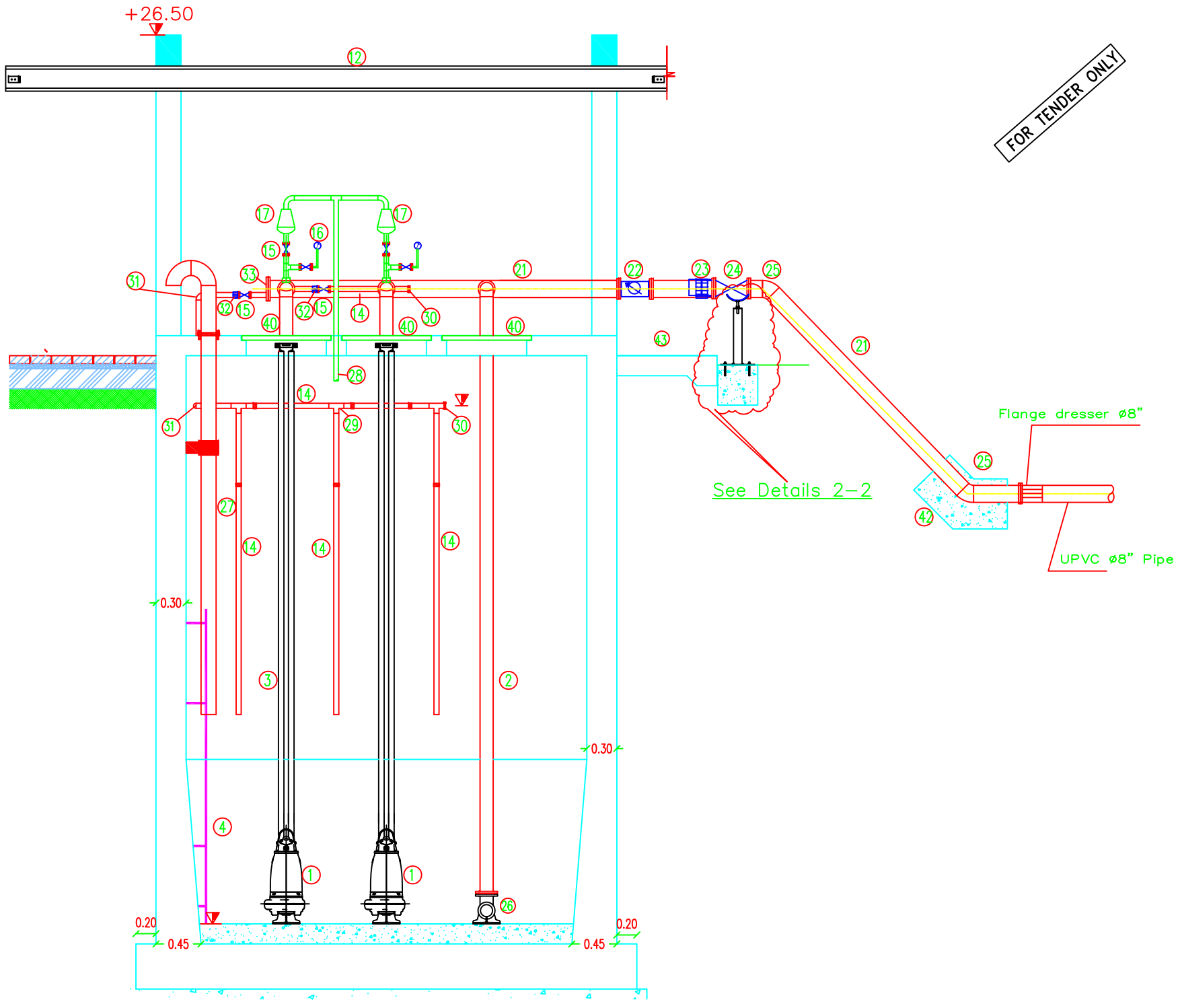
TEMPERATURES:
MEDIUM 20C, MAX. PERMISSIBLE 40C
IMPELLER : N-TYPE IMPELLER;
IMPELLER DIAMETER : 239MM

MATERIAL :
PUMP CASING , INTERMEDIATE CASING ,
IMPELLER & MOTOR CASING : GG-25
PUMP OUTLET BRANCH : 100MM

-BACK RAKED SCREEN :

BAR SPACING 15mm.
BAR SIZE 9mm. X 65mm.
BAR HEIGHT 740mm.
MOTOR RATING 2.2 kw.
SUPPLY 380V.,3PH., 50HZ
SCREEN MAXIMUM CAPACITY :53L/S

-HOIST :
2000KG CAPACITY FOR PUMPES



SECTION B–B IN THE SUMP WET WELL

SCALE 1 : 50

1– Submersible Sewage Pump.
2– ø4" Steel Discharge Pipe.
3– ø2" Pump Lifiting Guide Rail.
4– Stainless Steel Ladder
12– I Beam for Electical Hoist Movement
14– Steel Pipe ø2".
15– Gate Valve ø2"
16– ø4" Oil Pressure Gage 0–16 bar
17– Air Valve for Sewage Water.
21– ø8" Steel Pipe For Manifold.
26– Pump Base.
27– Ventilation Steel Pipe ø6".
28– PVC Drainge Pipe.
29– Steel T ø 2"/2".
30– Blind Flange ø2".
31– Steel Elbow ø2".
32– Flange Dresser ø2"
33– Blind Flange ø8".
40– Steel Cover (0.9X1.20).

FOR TENDER ONLY

NOTES:

- THE CONTRATOR MUST SUBMIT DETAILED WORKSHOP DRAWINGS FOR ALL WORKS ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- ALL CIVIL WORKS RELATED TO MECHANICAL & ELECTRICAL WORKS MUST BE CARRIED OUT ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- THE WET WELL & BACK RAKED SCREEN INTERNAL DIMENSIONS SHALL BE VARIABLE TO COMPLY WITH THE EQUIPMENT'S REQUIREMENTS.
- ALL THE CONCRETE UP TO THE PLAINTH LEVEL MUST BE ISOLATED BY APPLYING TWO COATS OF HOT BITUMEN
- IF THERE IS ANY DISCRAPENCY IN THE DRAWINGS, THE CONTRACTOR HAS TO INFORM THE ENGINEER AND HE MUST CONSIDER IT IN HIS PRICE AT TENDERING STAGE
- STRUCTURAL DRAWINGS SHALL BE READ IN CONJUCTION WITH ARCH., ELEC., & MECH. DRAWINGS
- BACKFILLING MUST BE CARRIED OUT BY SAND IN LAYERS 25CM THICK EACH LAYER HAS 97% COMPACTION

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

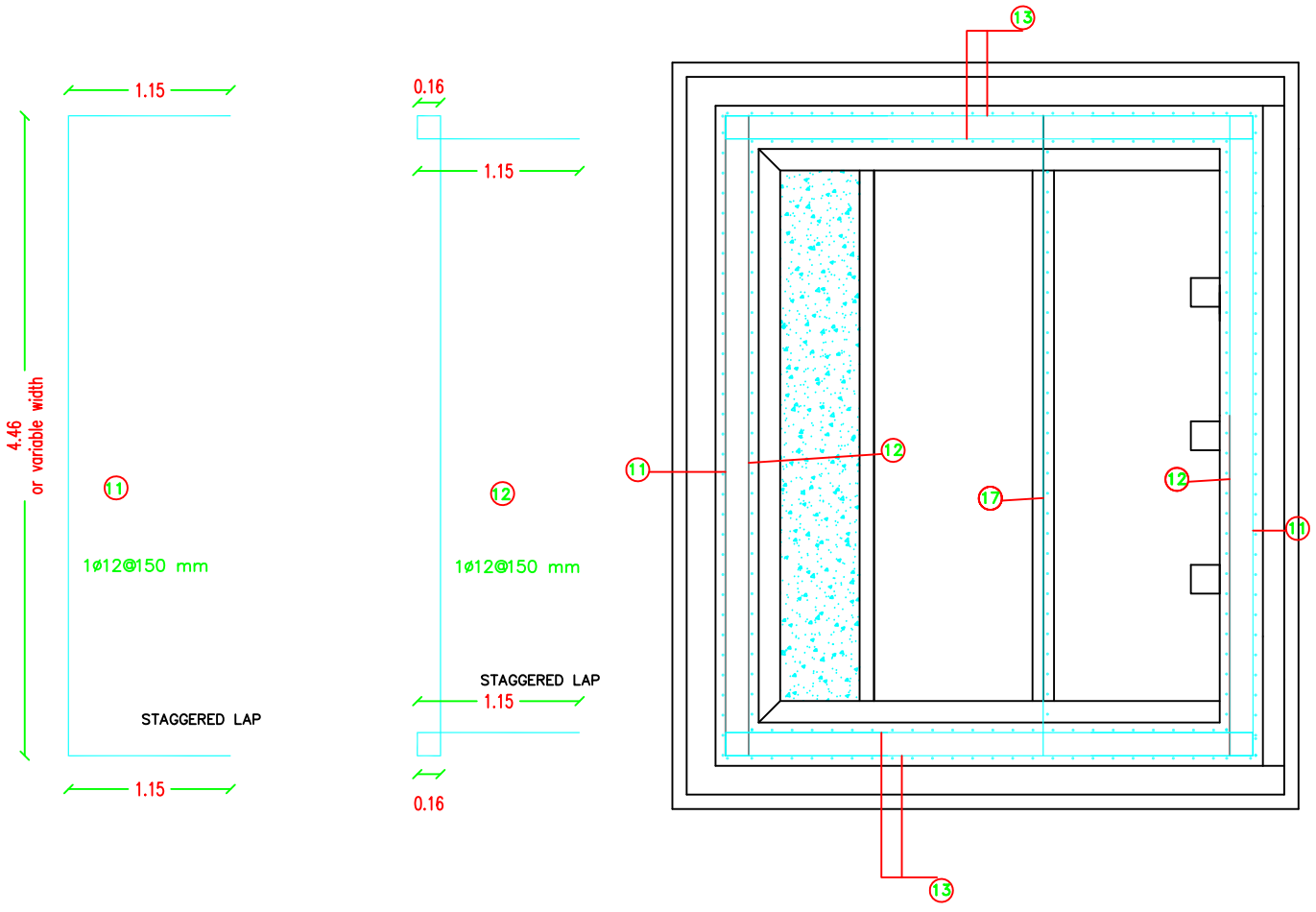
SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

PROJECT:-
CONSTRUCTION OF INFRASTRUCTURE WORKS IN KHANYOUNIS PROJECT (PACKAGE 4)

DRAWING NAME:-
Sump Wet Well Details-5

Symbol	Drawing No.:	Rev. No.
RES	ME-05	R1



SECTION E–E IN THE SUMP WET WELL

SCALE 1 : 50

– Steel Reinforcment must be arranged in staggered lap. OVER LAP MUST BE 50 Y LARGER DIMETER

FOR TENDER ONLY

NOTES:

- STRUCTURAL DIMENSIONS MUST BE COORDINATED WITH THE MANUFACTURER DIMENSIONS & INSTRUCTIONS.
- All the concrete up to the plinth level must be isolated by applying two coats of hot bitumen..
- If there is any discrapency in the drawings,the contractor has to inform the engineer and he must consider it in his price at tendering stage.
- Structural drawings shall be read in conjuction with arch. , elec. & mechanical drawings.
- Concrete must be ready mix concrete.
- Backfilling must be carried out by Sand in layers 25cm thick each layer 95%.
- Reinforced concrete class is 300kg/cm2.
- Plain concrete class is B200
- Steel yield strength =420N/mm2 & shall comply with ASTM A–615.
- Steel Reinforcment must be arranged in staggered lap. OVER LAP MUST BE 50 Y LARGER DIMETER
- Concrete cover for columns, Walls. ,beams & slabs =50mm.
- Concrete cover for foundations =50mm.
- Soil bearing capacity is 1.50 kg/cm2.
- Additives must be added for the concrete mix according to the manufacturer instructions

No.	Description	Date	By
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

DONATED BY:

GOVERNMENT OF JAPAN

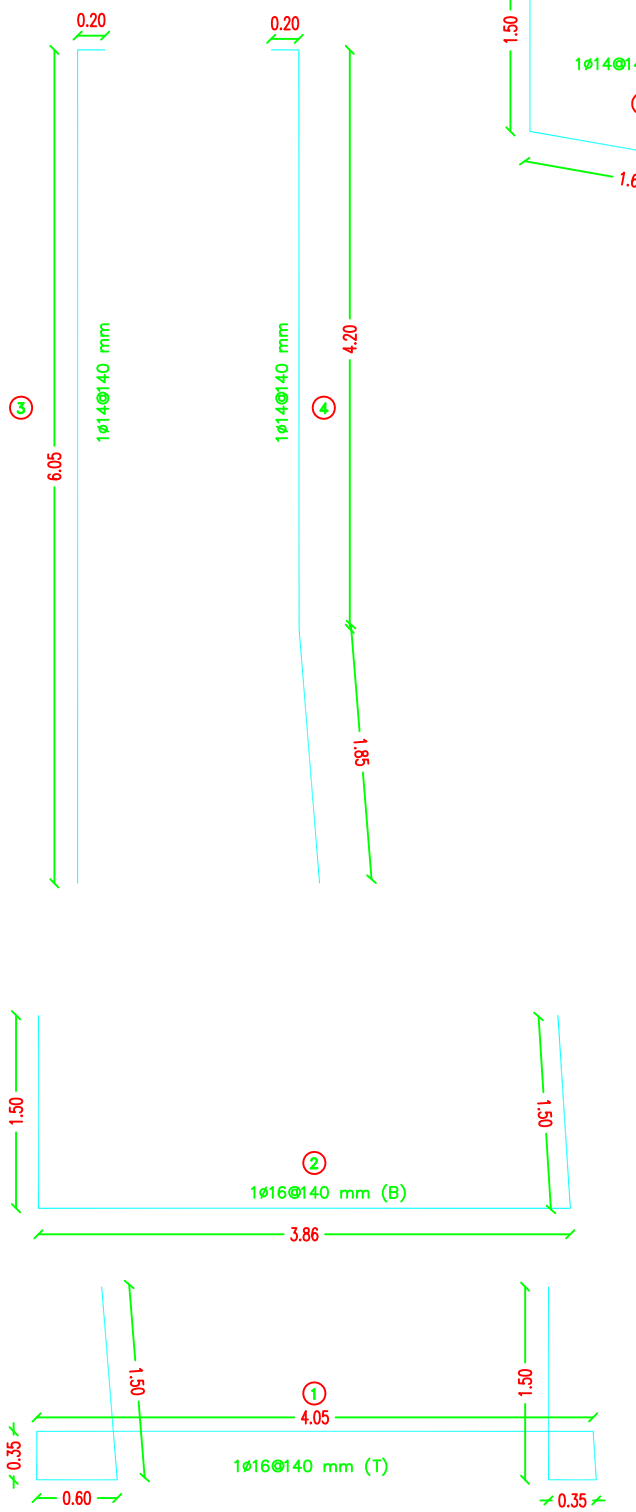
IMPLEMENTED BY:

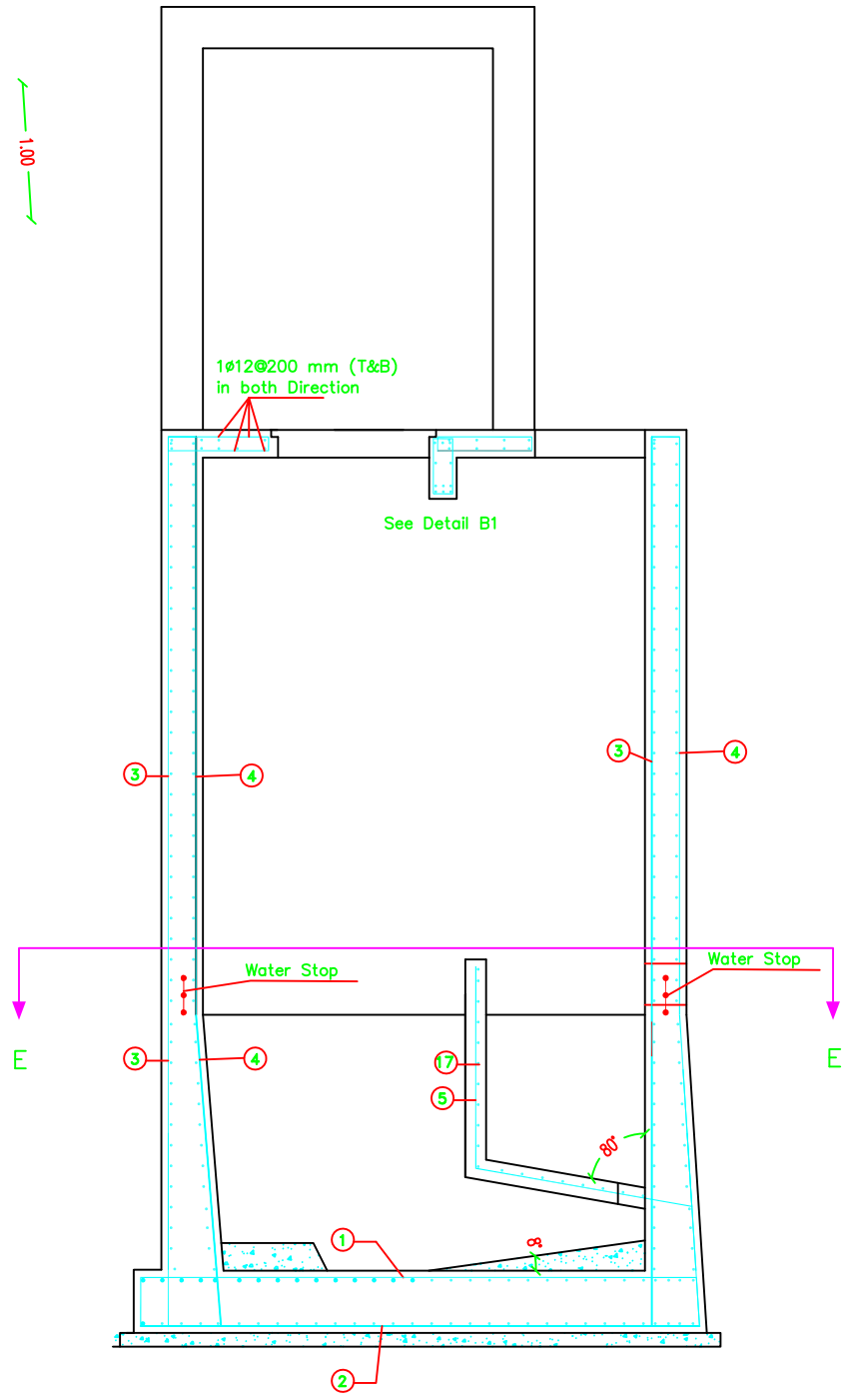
UNDP

PROJECT:-
CONSTRUCTION OF INFRASTRUCTURE WORKS IN KHANYOUNIS PROJECT (PACKAGE 4)

DRAWING NAME:-
SECTION E-E IN THE SUMP WET WELL
Reinforcement Details

Symbol	Drawing No.:	Rev. No.
RES	C-02	R1





SECTION A–A IN THE SUMP WET WELL

SCALE 1 : 50

FOR TENDER ONLY

NOTES:

- STRUCTURAL DIMENSIONS MUST BE COORDINATED WITH THE MANUFACTURER DIMENSIONS & INSTRUCTIONS.
- All the concrete up to the plinth level must be isolated by applying two coats of hot bitumen..
- If there is any discrapency in the drawings,the contractor has to inform the engineer and he must consider it in his price at tendering stage.
- Structural drawings shall be read in conjuction with arch. , elec. & mechanical drawings.
- Concrete must be ready mix concrete.
- Backfilling must be carried out by Sand in layers 25cm thick each layer 95%.
- Reinforced concrete class is 300kg/cm2.
- Plain concrete class is B200
- Steel yield strength =420N/mm2 & shall comply with ASTM A-615.
- Steel Reinforcment must be arranged in staggered lap. OVER LAP MUST BE 50 Y LARGER DIMETER
- Concrete cover for columns, Walls. ,beams & slabs =50mm.
- Concrete cover for foundations =50mm.
- Soil bearing capacity is 1.50 kg/cm2.
- Additives must be added for the concrete mix according to the manufacturer instructions

No.	Description	Date	By
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

DONOR'S LOGO

GOVERNMENT OF JAPAN

IMPLEMENTED BY:

CONSTRUCTION OF INFRASTRUCTURE WORKS IN KHARTOUM5 PROJECT (PACKAGE 4)

UNDP

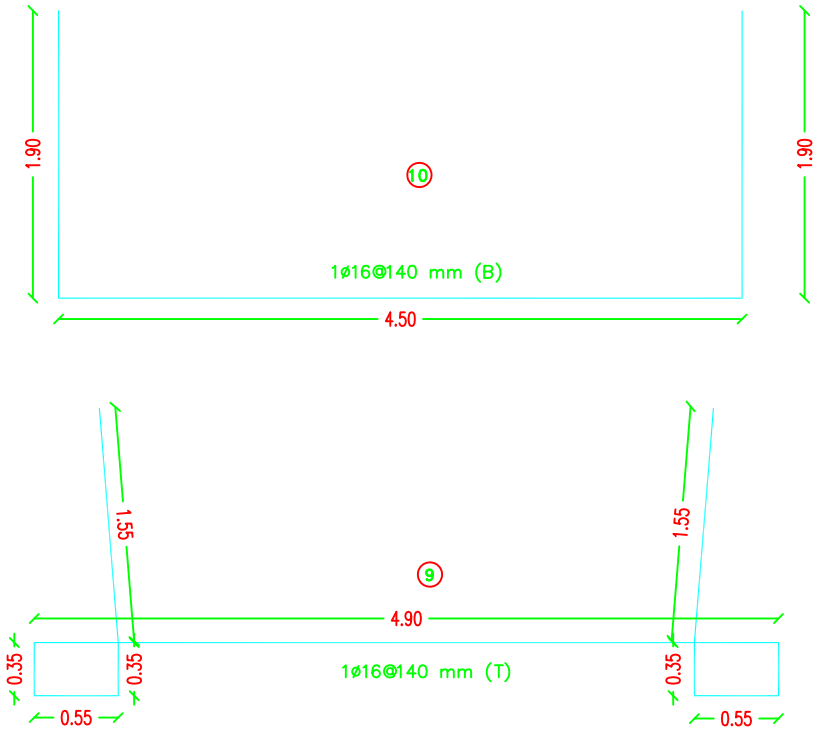
PROJECT:-

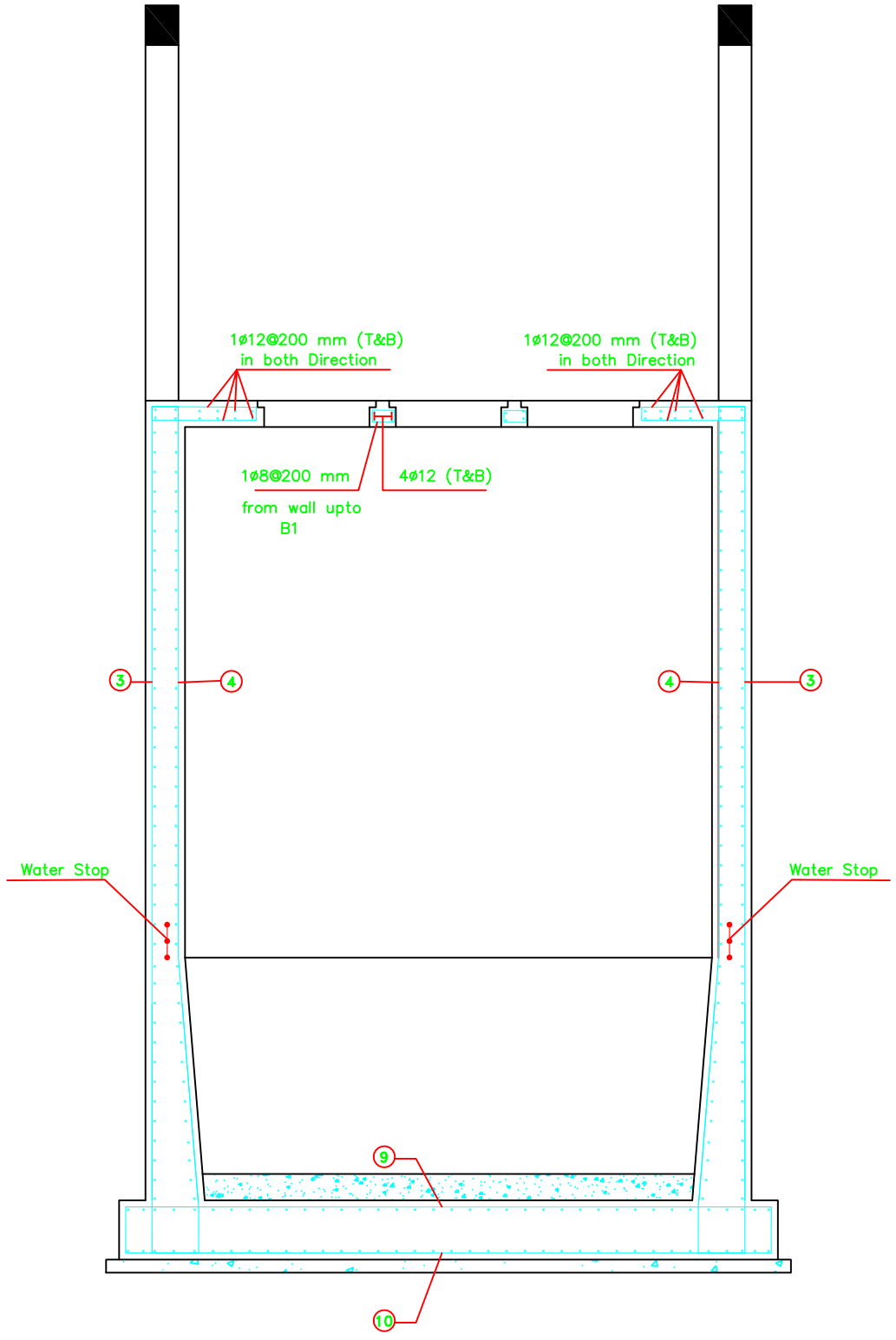
DRAWING NAME:-

SECTION A-A IN THE SUMP WET WELL

Reinforcement Details

Symbol	Drawing No.:	Rev. No.
RES	C-03	R1





SECTION B–B IN THE SUMP WET WELL

SCALE 1 : 50

FOR TENDER ONLY

NOTES:

- STRUCTURAL DIMENSIONS MUST BE COORDINATED WITH THE MANUFACTURER DIMENSIONS & INSTRUCTIONS.
- All the concrete up to the plinth level must be isolated by applying two coats of hot bitumen..
- If there is any discrapency in the drawings,the contractor has to inform the engineer and he must consider it in his price at tendering stage.
- Structural drawings shall be read in conjuction with arch. , elec. & mechanical drawings.
- Concrete must be ready mix concrete.
- Backfilling must be carried out by Sand in layers 25cm thick each layer 95%.
- Reinforced concrete class is 300kg/cm2.
- Plain concrete class is B200
- Steel yield strength =420N/mm2 & shall comply with ASTM A-615.
- Steel Reinforcment must be arranged in staggered lap. OVER LAP MUST BE 50 Y LARGER DIMETER
- Concrete cover for columns, Walls. ,beams & slabs =50mm.
- Concrete cover for foundations =50mm.
- Soil bearing capacity is 1.50 kg/cm2.
- Additives must be added for the concrete mix according to the manufacturer instructions

No.	Description	Date	By
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

DONATED BY:

GOVERNMENT OF JAPAN

IMPLEMENTED BY:

UNDP

PROJECT:-
CONSTRUCTION OF INFRASTRUCTURE WORKS IN KHANYOUNIS PROJECT (PACKAGE 4)

DRAWING NAME:-
SECTION B-B IN THE SUMP WET WELL
Reinforcement Details

Symbol	Drawing No.:	Rev. No.
RES	C-05	R1