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Social and Local Development Programme

  
Project: 11/03/17 Bekaa, Lebanon No. 581 / 15/2017

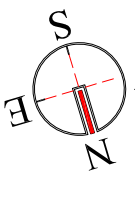
  
Lebanese Host Communities  
Support Programme

CONSULTANT:

Project:  
WEST BEKAA- AGRICULTURE DEVELOPMENT CENTER  
PLOT # 442

Drawing Title: ELECTRICAL  
**MASS FLOOR AC LAYOUT**  
**BLOCK-A-**

Scale: 1/100	Sheet Size: A1	
Approved By: V.B	Date: July-2016	
Checked By: V.B	Date: July-2016	
Drawn By: H.R	Date: July-2016	
Client Code:		
Drawing No. L1003D-M-A-102	Rev. 1	
Approvals		





Subcase 1

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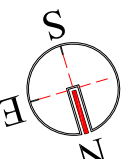
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Support Programme

CONSULTANT:

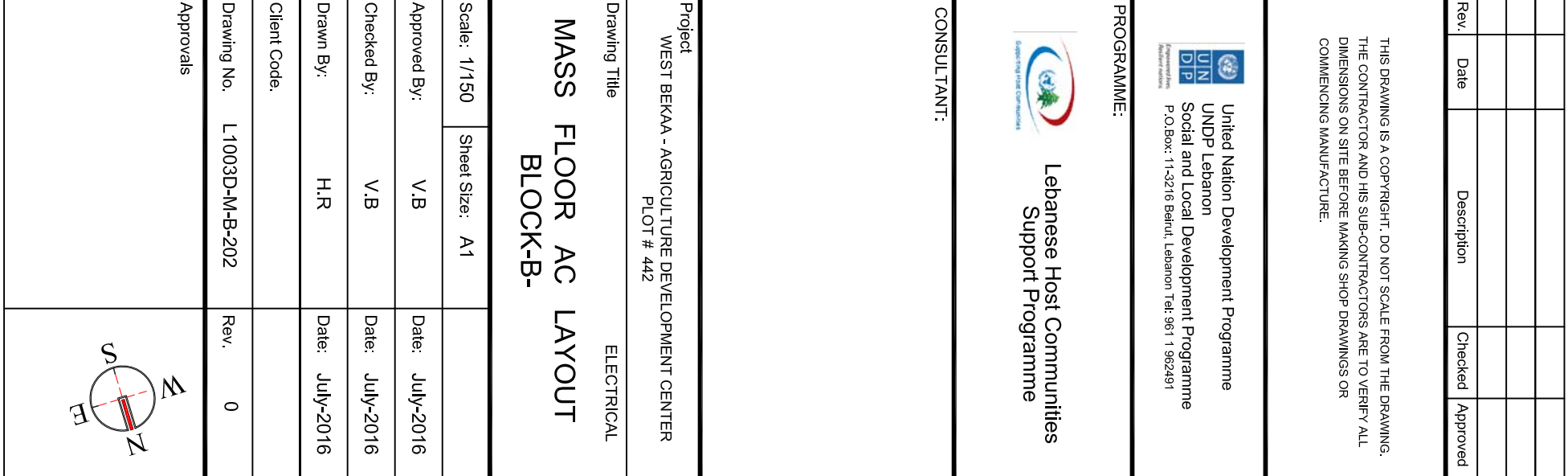
Project:  
WEST BEKAA- AGRICULTURE DEVELOPMENT CENTER  
PLOT # 442

Drawing Title: ELECTRICAL  
GROUND FLOOR AC LAYOUT  
BLOCK-A-

Scale:	1/100	Sheet Size:	A1	
Approved By:	V.B	Date:	July-2016	
Checked By:	V.B	Date:	July-2016	
Drawn By:	H.R	Date:	July-2016	
Client Code:				
Drawing No.	L1003D-MA-101	Rev.	1	
Approvals				









SPLIT UNIT				
Model	Indoor	EB-TYP-01	EB-TYP-02	EB-TYP-03
	Outdoor			
Nominal Capacity	cooling heating	12000 12000	18000 18000	24000 25000
Power supply		V/Ph/Hz	208-230/1/60	
Rated Load current	Amps	5.9	8.8	10
Starting Current	Amps	18	27	40
Air flow	CFM	315	450	630
Sound level	db(A)	40	43	51
Compressor	Type	Rotary		
Refrigerant	Type	R-22		
Piping connection	Liquid	1/4	1/4	3/8
	Suction	1/2	1/2	5/8
Dimension(W*H*D)	Indoor	860*290*198	860*292*205	1080*330*220
	Outdoor	700*540*255	770*520*280	910*690*370
Weight (Net)	Indoor	22	26	33
	Outdoor	66	88	132

SCHEDULE OF SUBMERGIBLE PUMPS									
Designation	Qty	Location	Served Area	Type	Head ft/m	Head ft/m	RPM	Motor Data	Remarks
SP-C1/2	2	Pump Rm Room	Rain water / tank	Submersible	5	20	2900	2x7.4	3
N.B. The head of the pumps have to be recalculated by the contractor according to final site layout.									

HOT WATER STORAGE TANK HEATER SCHEDULE			
HEATER No.	HWST 1	HWST 2	
SERVICE	DHW AND HW	DHW AND HW	
QUANTITY	2	2	
STORAGE (LIT EACH)	75	200	
ENTERING WATER TEMP (°C)	4.5°C	4.5°C	
LEAVING WATER TEMP (°C)	60 °C	60 °C	
TYPE OF HEATING MEDIA	ELECTRIC	ELECTRIC	
REMARKS	VERTICAL WITH LCP, INTERNAL GLASS LINING AND 1.1 kW ELECTRIC HEATER	VERTICAL WITH LCP, INTERNAL GLASS LINING AND 4 kW ELECTRIC HEATER	

SCHEDULE OF BOOSTER & TRANSFER PUMP SETS		
UNIT NO.	CMP-1,2	
SERVING	COLD WATER	
FLOOR	BASEMENT	
FLUID TYPE	WATER	
FLUID TEMPERATURE (°C)	22	
NUMBER OF PUMPS	2	
WATER FLOW PER PUMP (LPS)	2.08	
* MAX. WATER PRESSURE (mWG)	50	
PUMP TYPE	END SUCTION	
PUMP CONSTRUCTION	VERTICAL MULTI-STAGE	
COUPLING	DIRECT	
PUMP BODY MATERIAL	STAINLESS STEEL	
IMPELLER MATERIAL	STAINLESS STEEL	
MOTOR COOLING METHOD	AIR COOLED	
MAX. MOTOR RPM	2950	
ACCESSORIES	CONTROL PANEL	
S PRESSURE TANK VOLUME	1X750 LITERS	
BASE TYPE	CONCRETE	
MODE OF OPERATION	1 BACK-UP	
QUANTITY	2	
REMARKS	VARIABLE SPEED	

\* HEAD TO BE VERIFIED UPON FINAL SELECTION OF EQUIPMENT

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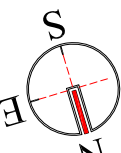
Lebanese Host Communities  
Support Programme

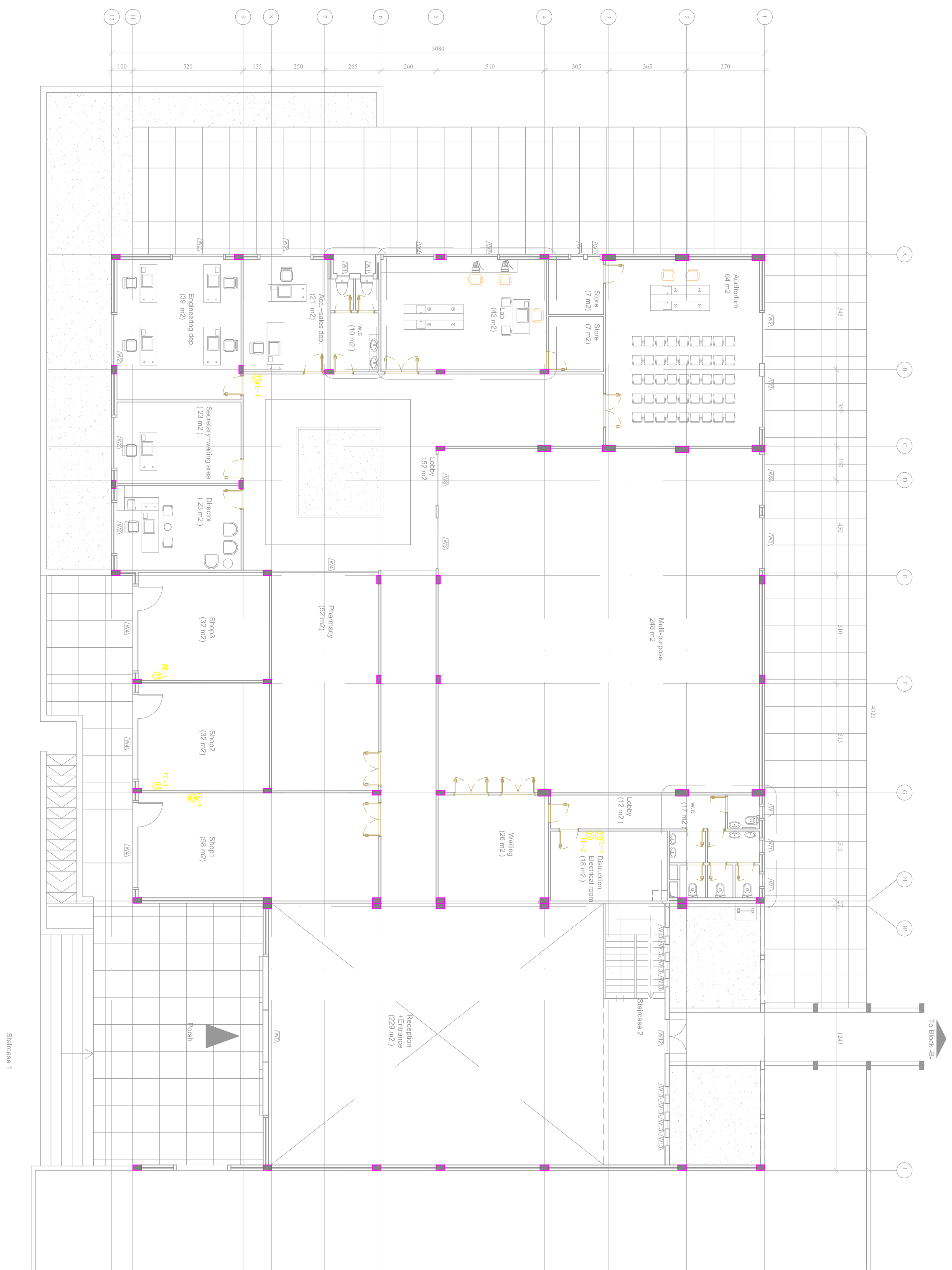
CONSULTANT:

Project  
WEST BEKAA - AGRICULTURE DEVELOPMENT CENTER  
PLOT # 442

Drawing Title  
ELECTRICAL  
GROUND FLOOR PLAN  
BLOCK-A-


Scale: NTS	Sheet Size: A1	
Approved By: V.B	Date: July-2016	
Checked By: V.B	Date: July-2016	
Drawn By: H.R	Date: July-2016	
Client Code:		
Drawing No. L 1003D-M-GE-003	Rev. 0	
Approvals		






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**OSGRAME:**

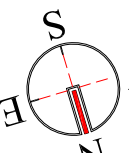
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Support Programme

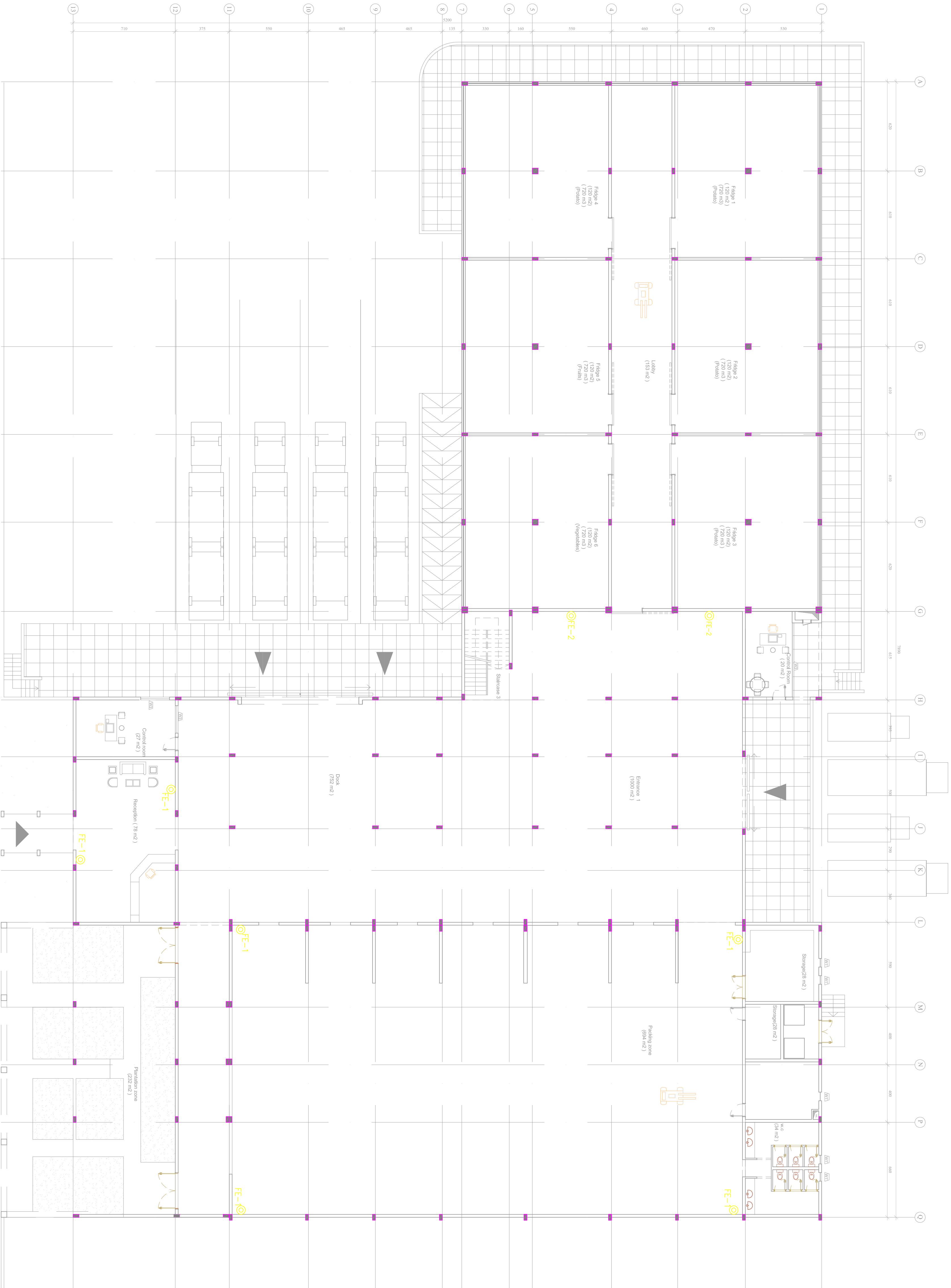
CONSULTANT:

Project  
WEST BEKAA - AGRICULTURE DEVELOPMENT CENTER  
PLOT # 442

Drawing Title	ELECTRICAL
GROUND FLOOR FF LAYOUT BLOCK-A-	

Scale: 1/100 Sheet Size: A1	Approved By:	V/B	Date: July-2016
	Checked By:	V/B	Date: July-2016
	Drawn By:	H/R	Date: July-2016
	Client Code:		
	Drawing No. L1003D-HA-A-103 Approvals	Rev. 0	4





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Social and Local Development Programme  
19, Souk El-Nasr Beirut, Lebanon 15051150000

**PROGRAMME:**  
**Lebanese Host Communities**  
Support Programme

**CONSULTANT:**

**Project**  
WEST BEKAA- AGRICULTURE DEVELOPMENT CENTER  
PLOT # 442

**Drawing Title**  
**GROUND FLOOR FF LAYOUT**  
**BLOCK-B-**

**Scale:** 1/150  
**Sheet Size:** A1

**Approved By:** V.B  
**Date:** July-2016

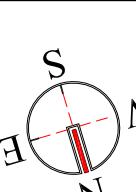
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**Drawn By:** H.R  
**Date:** July-2016

**Client Code:**

**Drawing No.** L1003D-M-B-203  
**Rev.** 0

**Approvals**

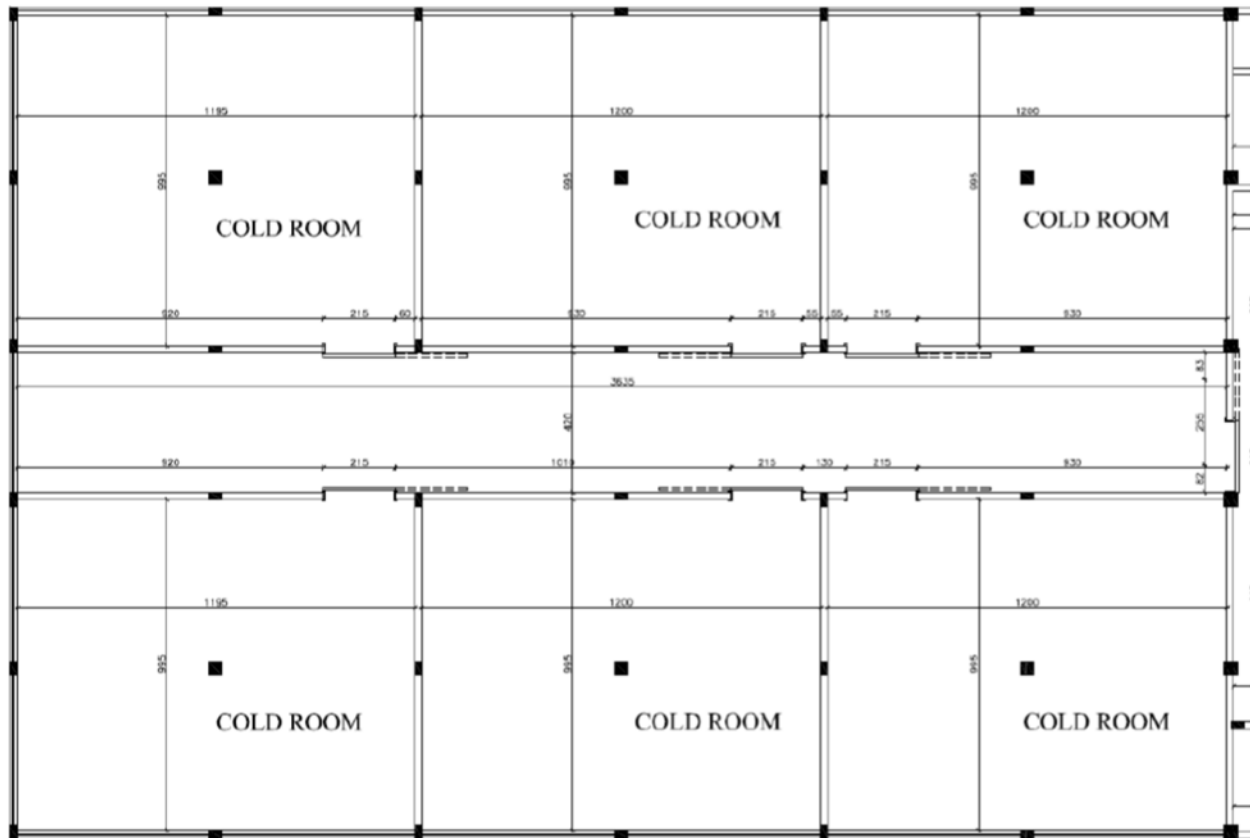






## Cold storage procurement specs

The cold storage rooms are already isolated with double layer of 5 cm each of polystyrene layers. The dimensions of the six rooms and the access strip are as the following sketch with a ceiling height of six meters.

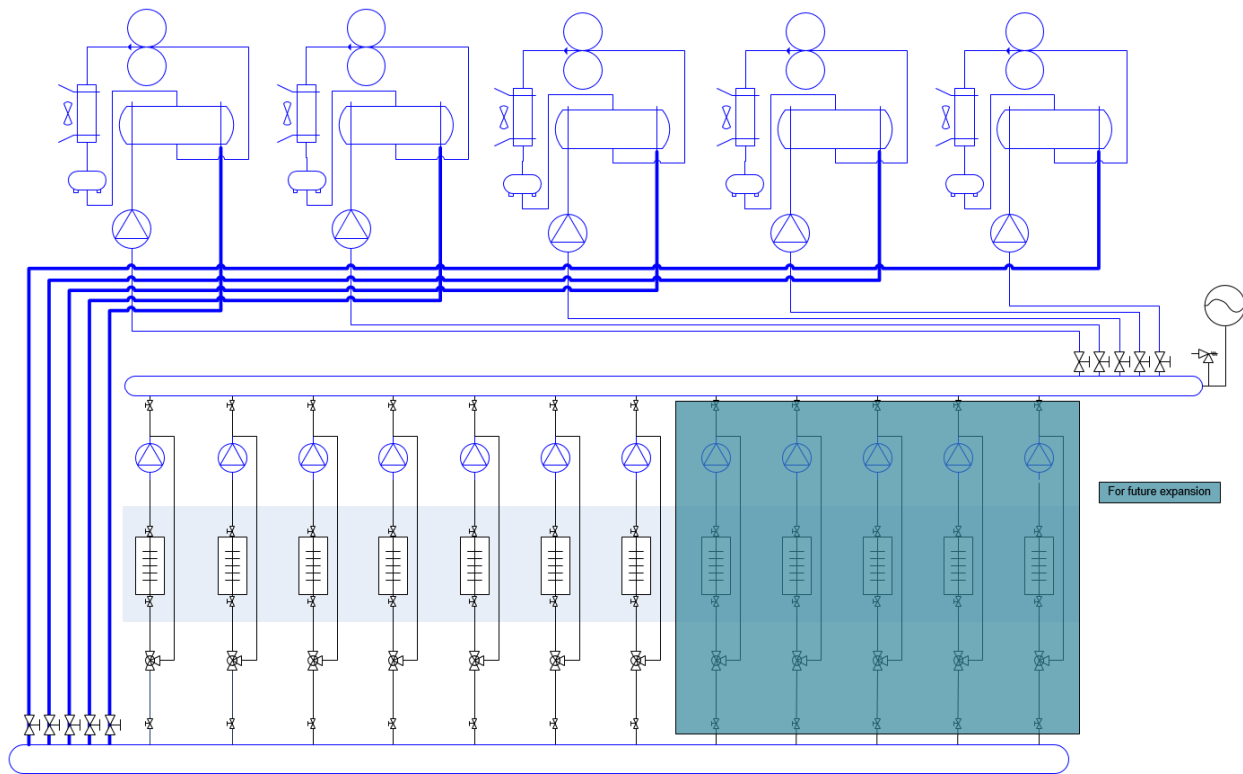


## Technical Specifications

### A. General system philosophy

The cold store is formed of 6 Cold rooms with 720 m<sup>3</sup> each and a 600 m<sup>3</sup> SAS (Service Access Strip/Corridor). Cooling should be supplied through one central refrigeration system based on a primary and a secondary refrigeration system. The first one is to be composed of multiple totally independent compressors, evaporators and condensers using R404a (Primary refrigerant). The secondary refrigeration system is also subdivided into two circulation circuits, primary and secondary. The primary circulation circuit is to handle the refrigeration of the coolant (Secondary refrigerant) and deliver it to a common pipe

where the secondary circuit delivers the refrigerated coolant to each room separately. Each compressor is to have its own R404a Refrigeration cycle and its own primary coolant circulation circuit.



## B. Performance and capacity

The Refrigeration system should be able to bring down room temperatures into the range  $-2^{\circ}\text{C}/10^{\circ}\text{C}$  and bring humidity up to 95 %. The SAS should have a temperature of  $5^{\circ}\text{C}$ . The delivered capacity to the cold rooms and SAS should not be less than 60 and 45 watts/ $\text{m}^3$  respectively. A diversity factor down to 0.8 of the total calculated capacity is acceptable.

## C. Compressors

The refrigeration system should include five compressors with 25% of the total capacity each. The compressors should be totally independent one from each other. Each Refrigeration circuit is to have its own oil separator, liquid receiver and suction accumulator as main components all mounted on a common chassis. Protection wise, a filter dryer, sight glass, High and low pressure switches, oil pressure differential, discharge temperature sensor, motor PTC for overload protection and all necessary controls generating from good engineering practice.

#### D. Evaporator

A gas to liquid heat exchanger is to be used as evaporator, plate heat exchanger or shell and tube. The leaving coolant temperature is to be at minimum -8°C. The evaporator should be protected against freezing (anti-freeze thermostat to be used) and any other possibility of flow obstruction. A monitoring of the supply and return temperatures and isolation valves should be available. The evaporator should be properly insulated.

#### E. Condenser

An air to air heat exchanger is to be used as condenser. A maximum of 10°C condenser split is allowable. The minimum fin spacing is to be 2.5 mm. Condenser's fans should have a thermal overload protection.

#### F. Cooler

The air cooler is to have two fans at least and electrical defrost. Cooler's fans should have a thermal overload protection. The minimum allowable air flow rate is 55,000 m<sup>3</sup>/h for cold rooms and 20,000 m<sup>3</sup>/h for SAS. The cooler should have isolation valves on both its inlet and outlet.

Location	Cold Room
Capacity	44 kw
Room Temperature	0 °C
Fluid temperature in/out	-8°C/-4 °C
Minimum Fin Spacing	7 mm
Minimum air Throw	50 m

Location	Service access strip / corridor
Capacity	30 kw
Room Temperature	5 °C
DTM (Room temperature difference)	6 K
Fluid temperature in/out	-4°C/-0 °C
Minimum Fin Spacing	6 mm
Minimum air Throw	50 m

#### G. Primary circulation Circuit

Each Circuit is to have its own independent circulation pump and controls. The circuit is to include check valves, regulating valves, isolation valves, strainers and air release valves. An expansion tank is to be mounted on the common pipe joining all the circuits. The whole circuit is to be insulated properly. The pump should have thermal overload protection.

#### H. Secondary circulation circuit

Each circuit is to have its own end suction pump, this circuit is to be controlled simultaneously with the cooler in an independent room temperature and humidity control. The circuit is to include check valves, regulating valves, isolation valves, strainers and air release valves. The whole circuit is to be insulated properly. The pump should have thermal overload protection.

The secondary end suction pumps should be manufactured either in EU or USA.

#### I. Doors

There are 7 doors (2.15mx2.2m) to be supplied. These doors are to be composed off:

- Door leaf: Injected polyurethane foam (42kg/m<sup>3</sup>), with nontoxic painted steel sheet cladding.
- Ergonomic handle with key-lock and safety release button from inside.

## Summary Table

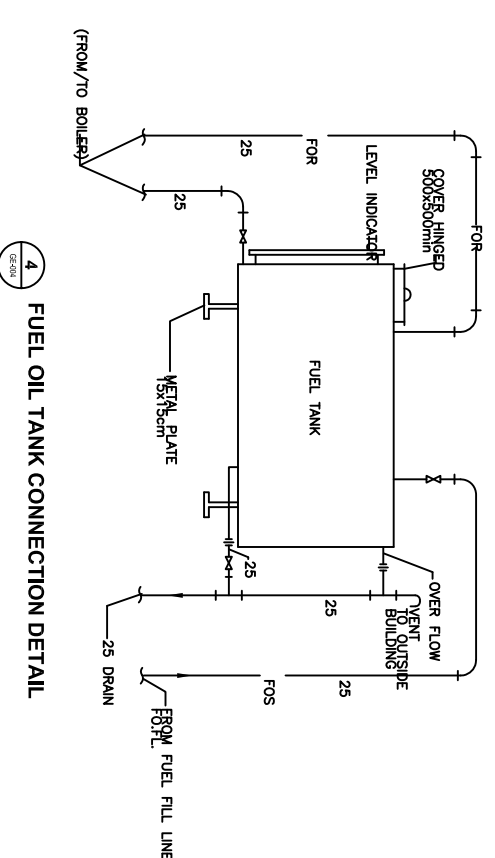
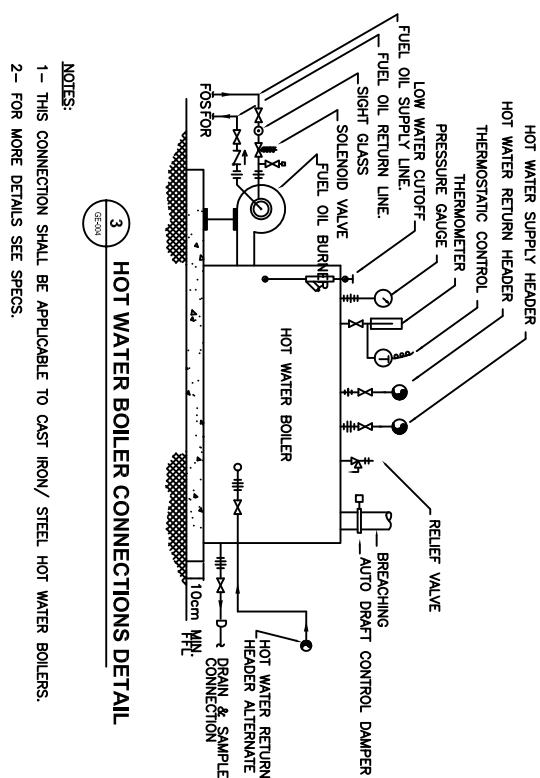
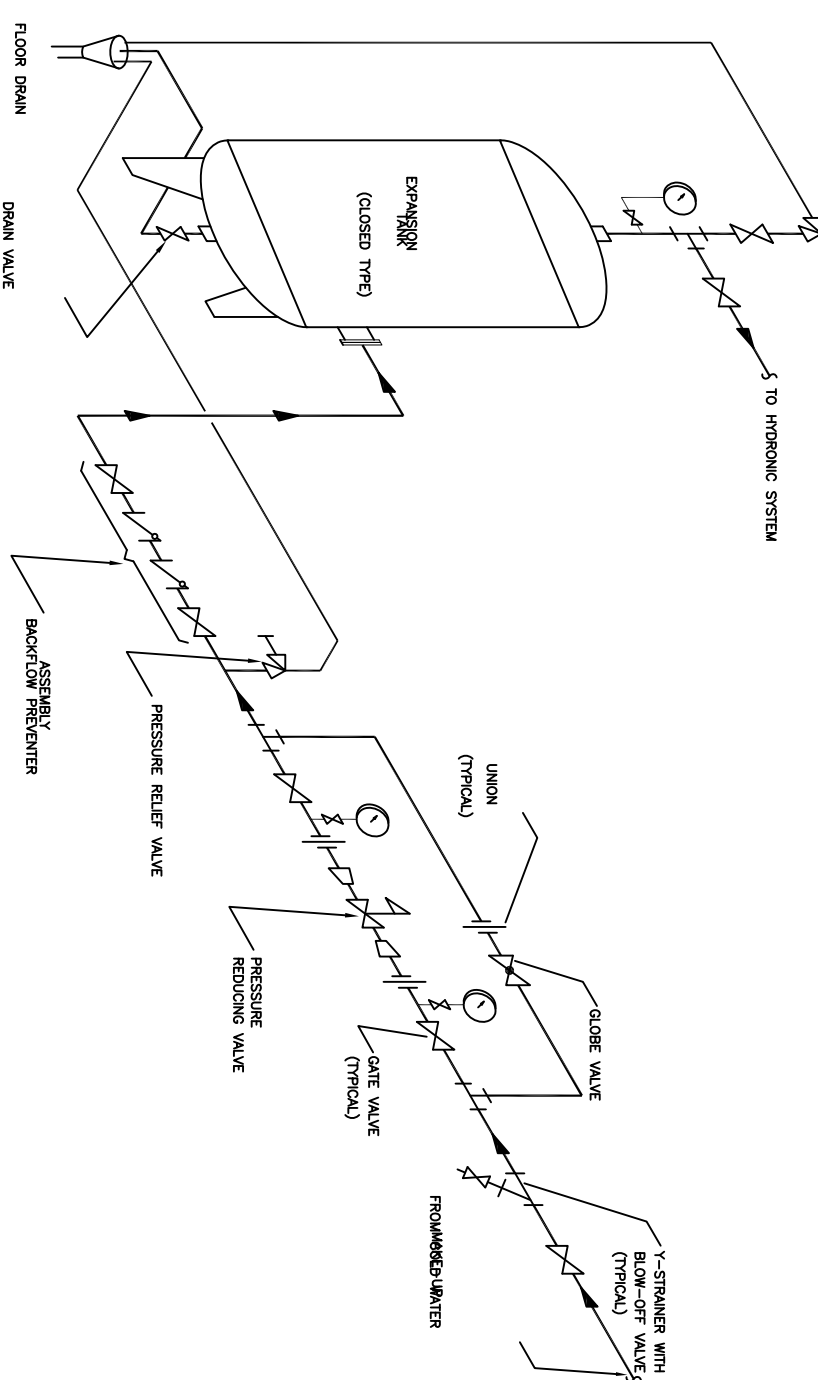
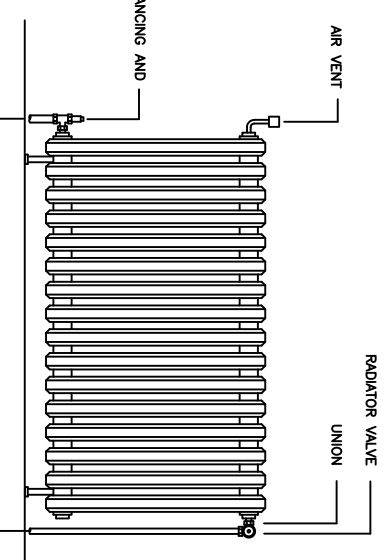
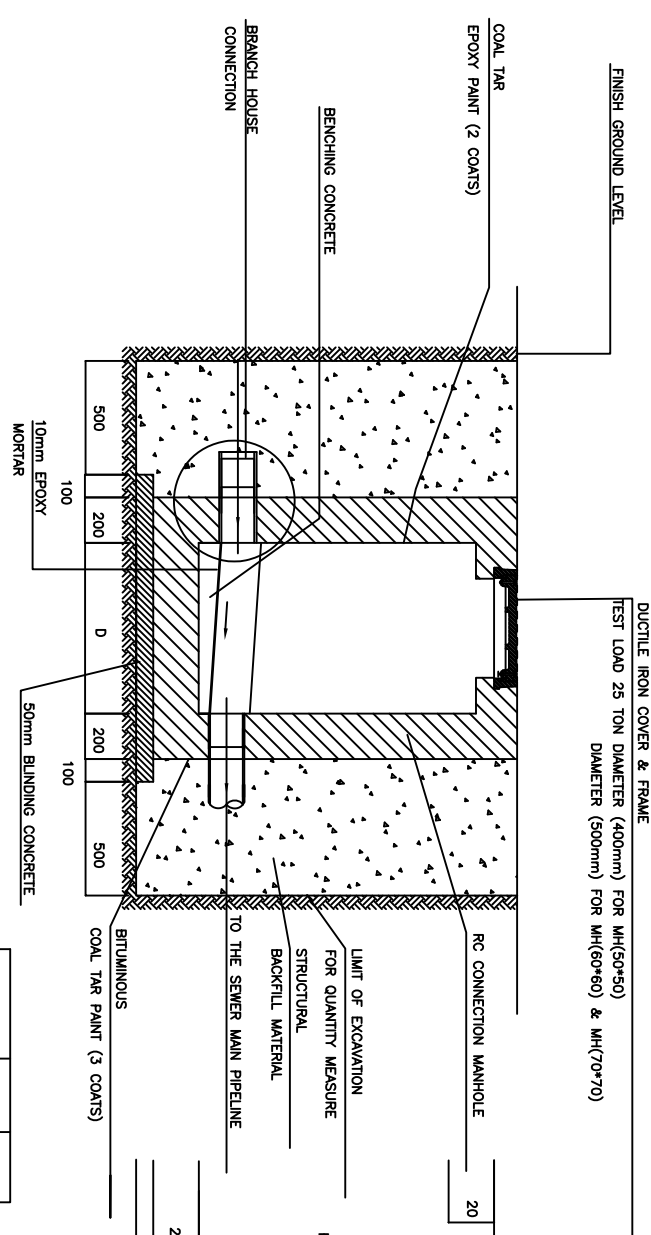
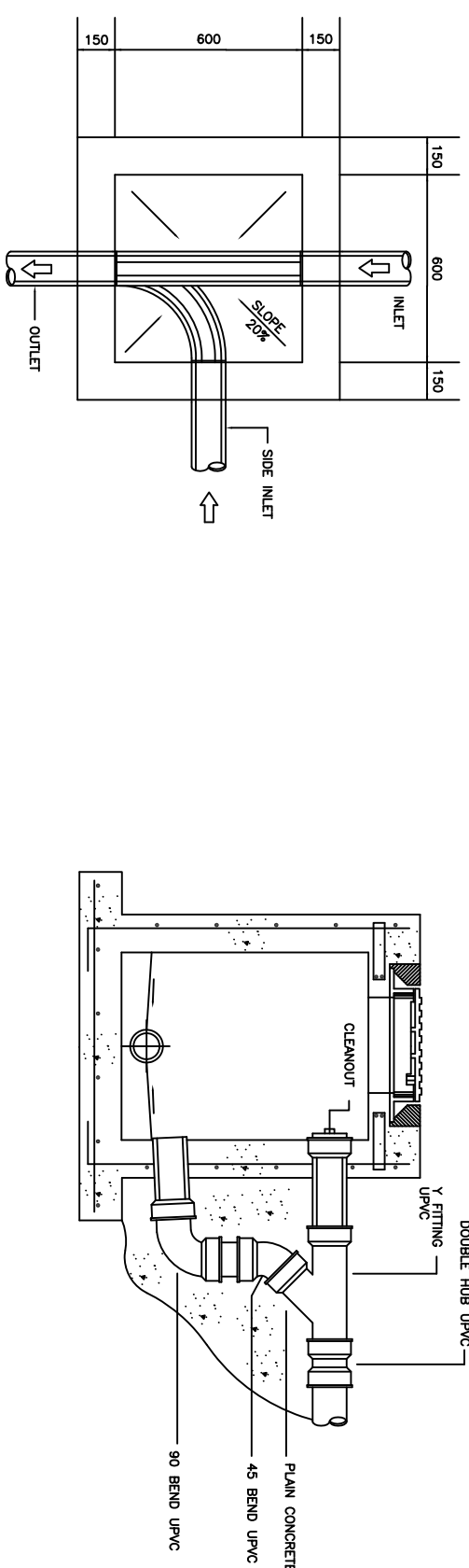
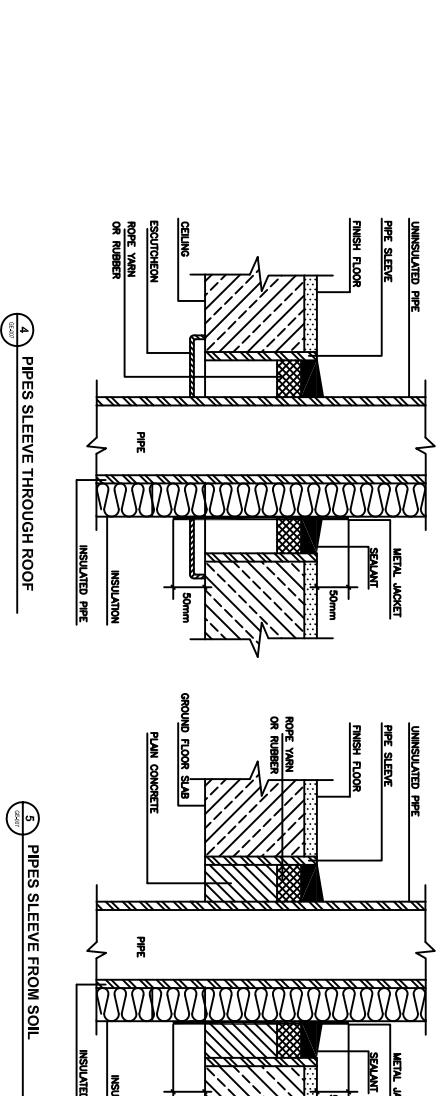
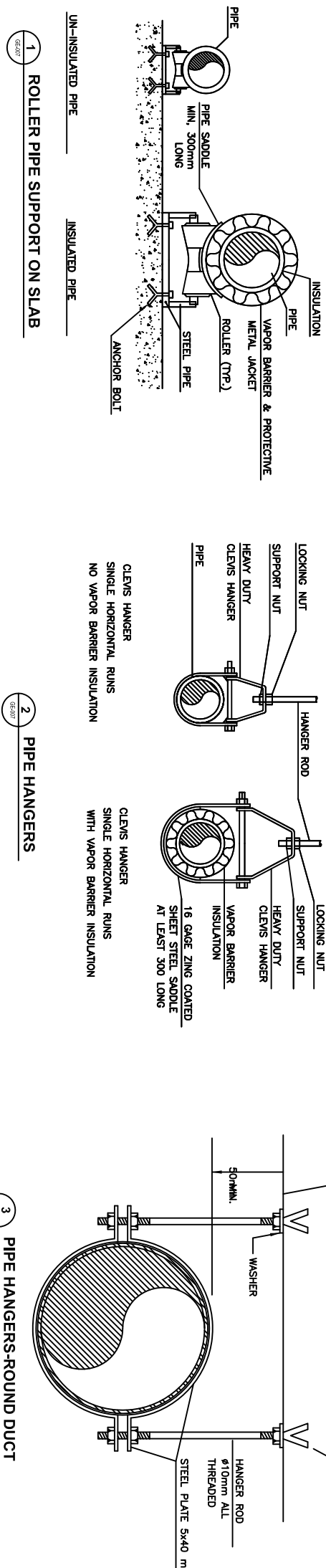
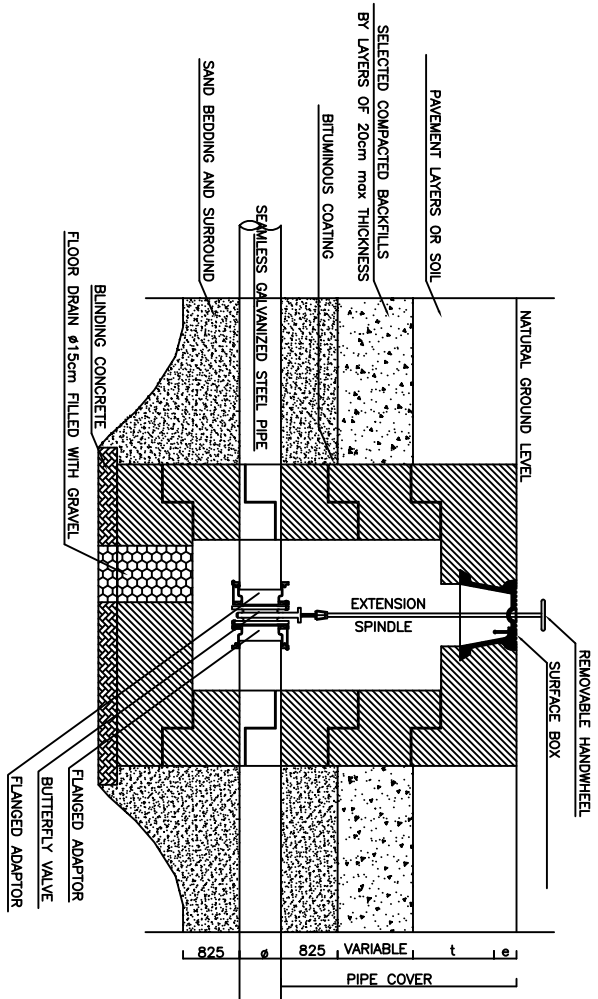
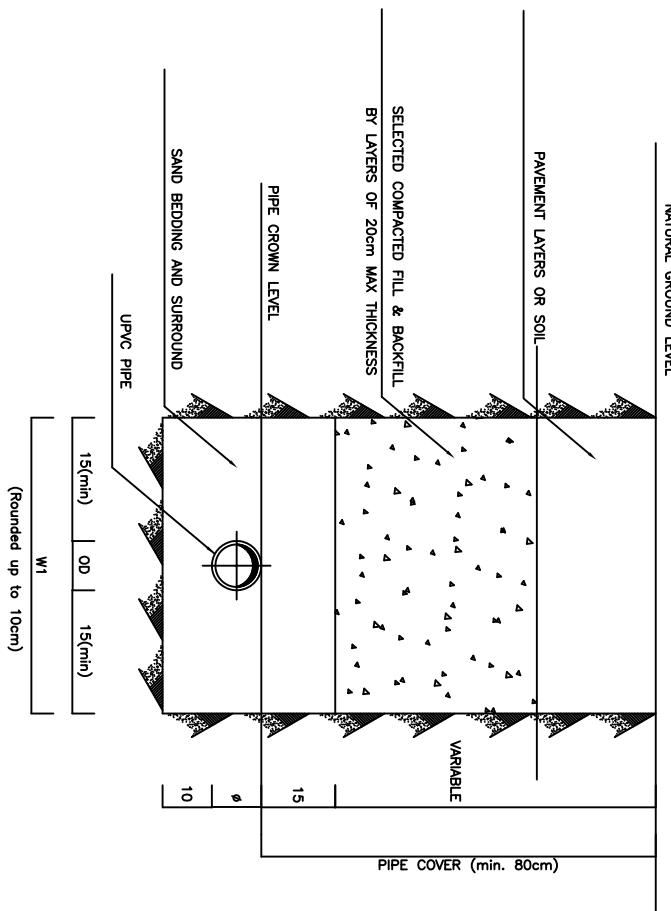
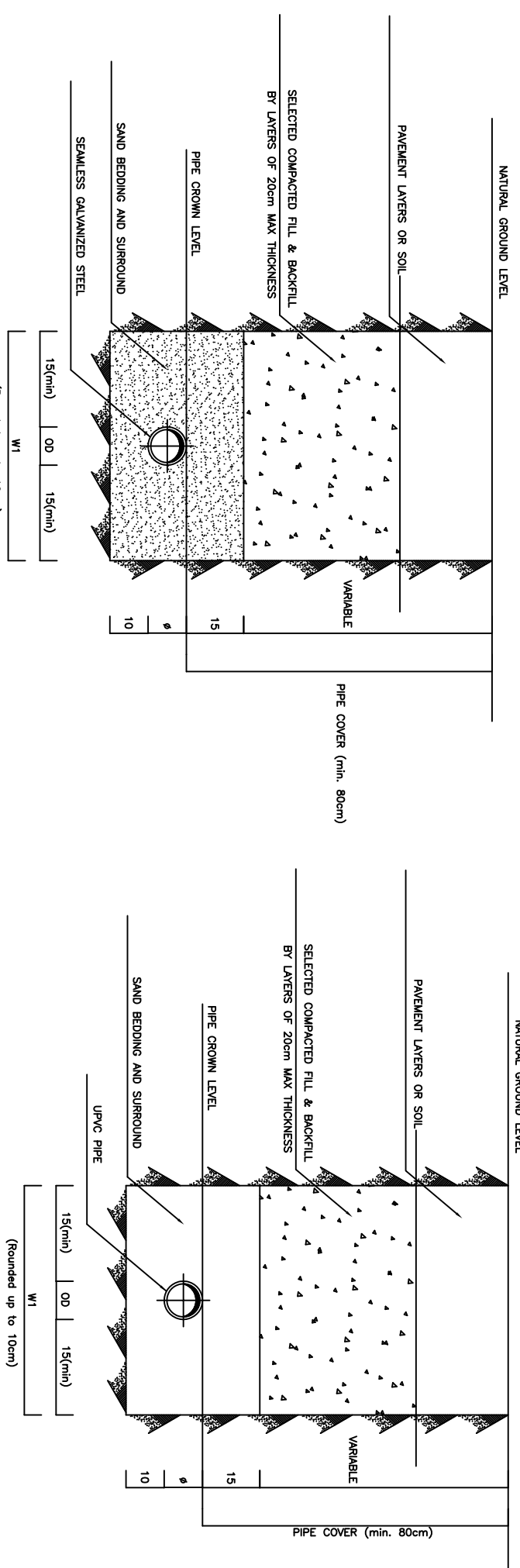
<b>A-Load</b>		
Rooms	6	
Capacity/room	44	kw
Capacity/SAS	30	kw
total	294	kw
diversity Factor	0.8	
Total needed capacity	235	kw
Refrigerant	R404a	
<b>B-Temperature</b>		
Rooms	0	C
Access strip / Corridor	5	C
<b>C-Compressors</b>		
Quantity	5	
Swallowing Capacity	126	m3/h
Oil separator		
Suction accumulator		
High and low pressure Protection		
Overload Protection		
Discharge temperature Protection		
Oil pressure Protection		
<b>D-Evaporator</b>		
Air to liquid Heat exchanger		
Secondary coolant temperature	-8	C
Antifreeze Protection		
Isolation valves		
<b>E-Condenser</b>		
Condenser swing	10	C
Fin spacing as a minimum	2.5	mm



<b>F-Cooler</b>		
F1. Cold room		
Room Temperature	0	C
Fin spacing as a minimum	7	mm
Capacity	44	kW
Airflow rate	55000	m3/hr
Fan Overload Protection		
Humidity control		
Air Throw	50	m
F2. Access strip / Corridor		
Room Temperature	5	C
Fin spacing as a minimum	6	mm
Capacity	41	kW
Airflow rate	20000	m3/hr
<b>G-Primary Circuit</b>		
Circulating pump		
Check valve		
isolation valves		
Pump Overload protection		
Insulated Pipe works		
Temperature monitoring		
<b>H-Secondary circuit</b>		
Independent pump		
check valve		
Isolation valves		
Pump Overload protection		
Insulated Pipe works		
Temperature monitoring		
<b>J. Doors</b>		
Doors (2.15mx2.2m)	7	
Door leaf: Injected polyurethane foam (42kg/m3), with nontoxic painted steel sheet cladding.  Ergonomic handle with key-lock and safety release button from inside.		

<b>K-General</b>		
nontoxic secondary refrigerant		
anti-corrosion		
anti-microbial		
Electrical supply phase relay		
Independent room control		





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E-mail: [lebanon@undp.org](mailto:lebanon@undp.org)

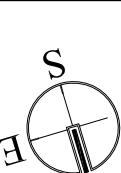
**Lebanese Host Communities  
Support Programme**

CONSULTANT:

Project  
WEST BEKAA - AGRICULTURE DEVELOPMENT CENTER  
PLOT # 442

ELECTRICAL

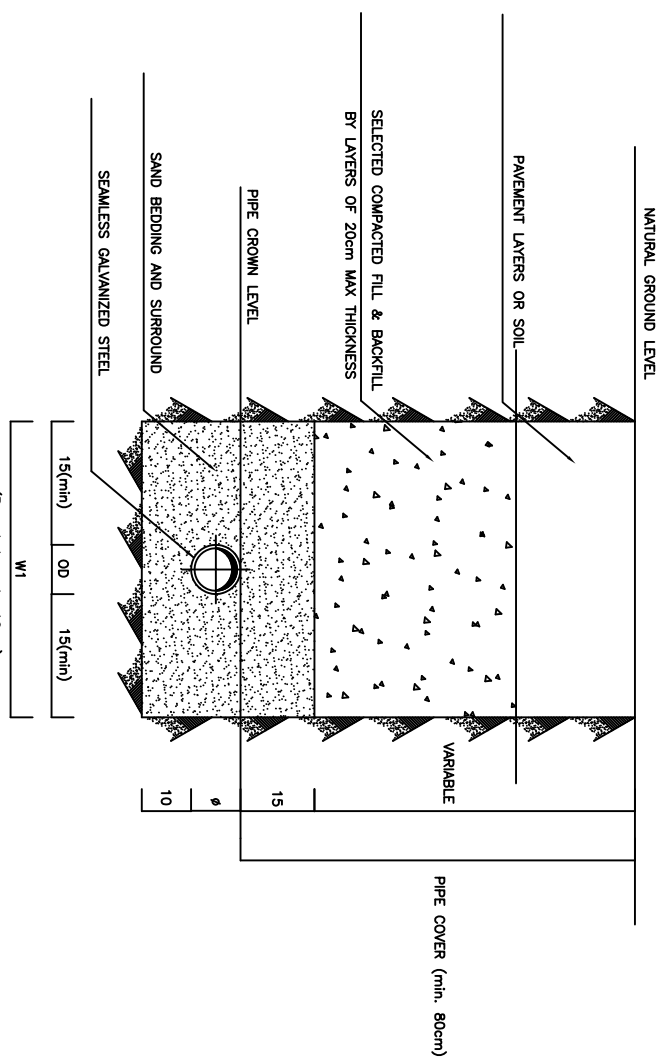
TYPICAL DETAILS 2			
Scale: NTS	Sheet Size: A1		
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Approved By:	V/B	Date: July-2016	
Checked By:	V/B	Date: July-2016	
Drawn By:	H/R	Date: July-2016	
Client Code:			
Drawing No. L1003D-M-GE-002		Rev. 0	2
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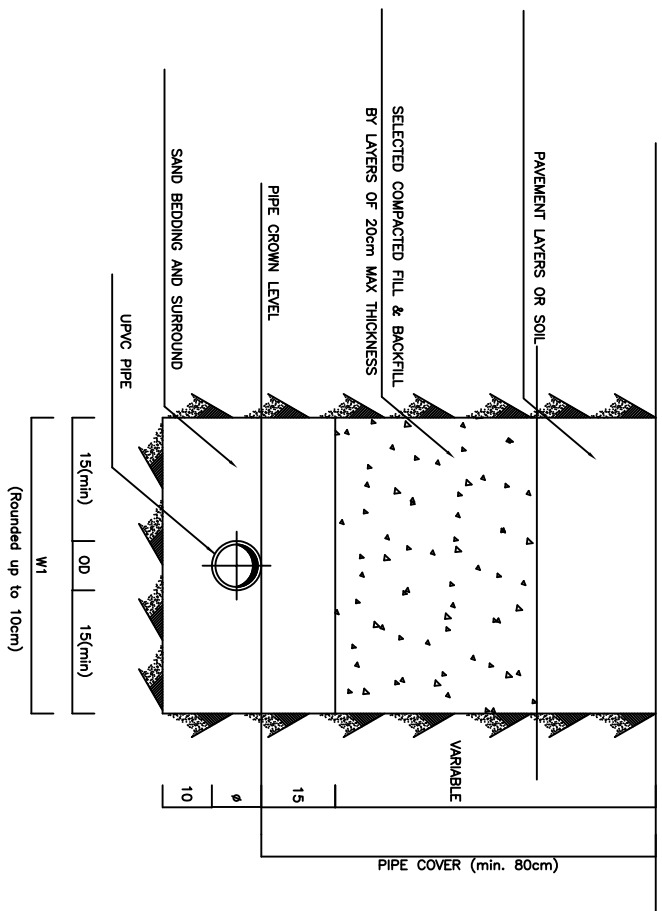




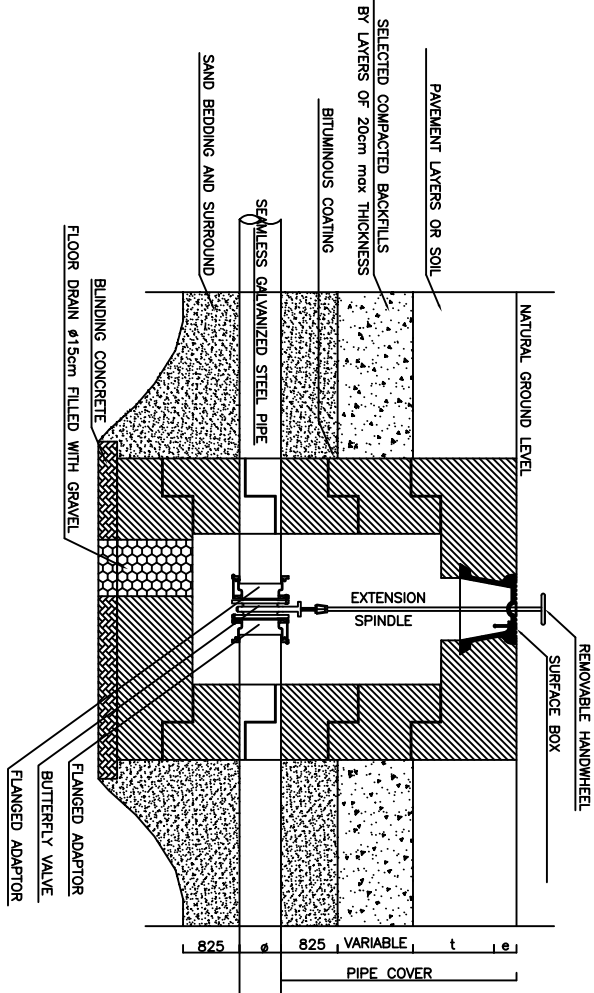




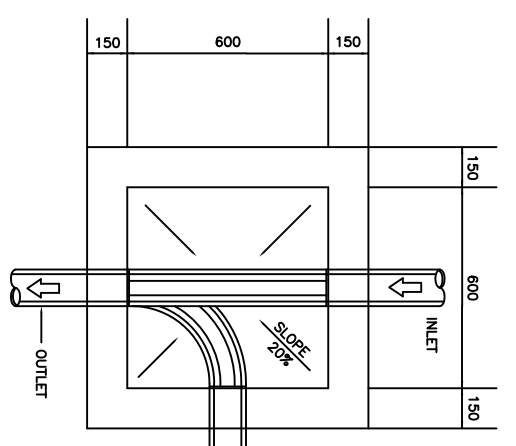
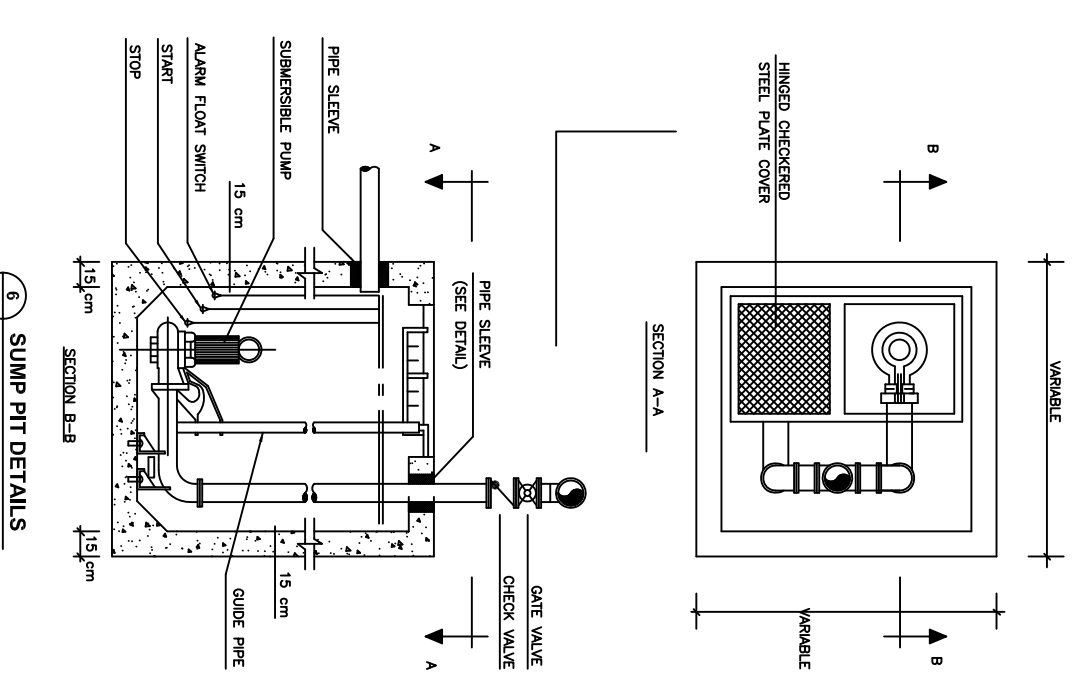
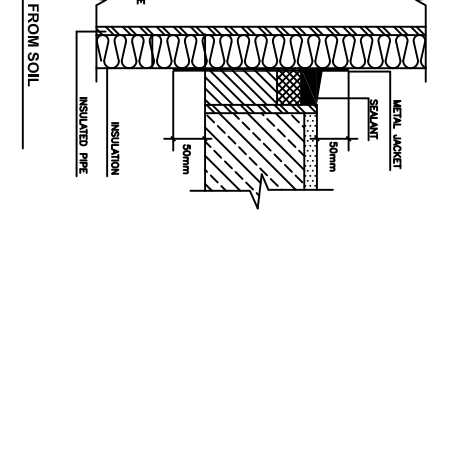
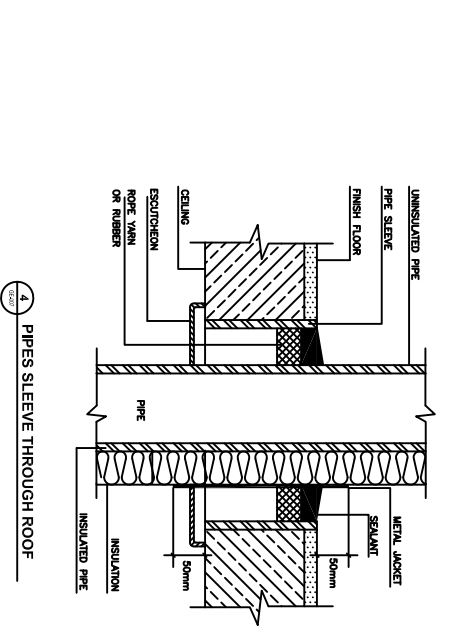
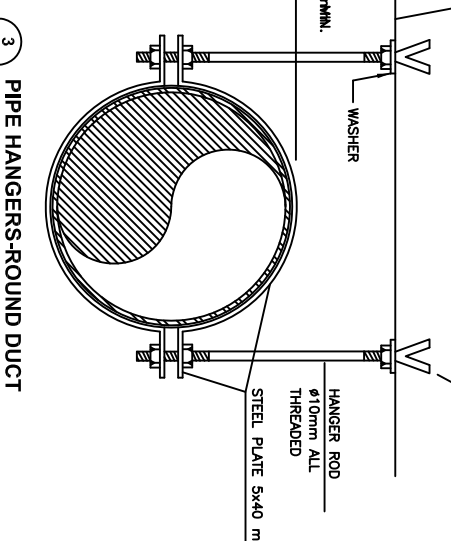
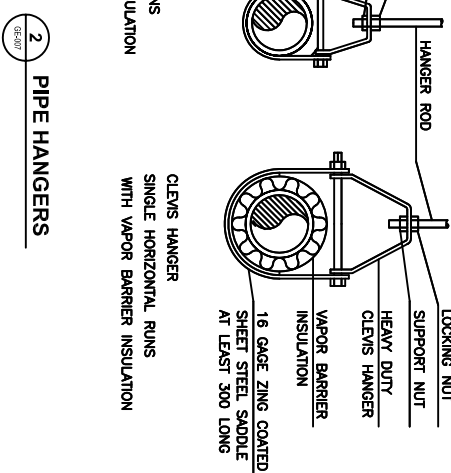
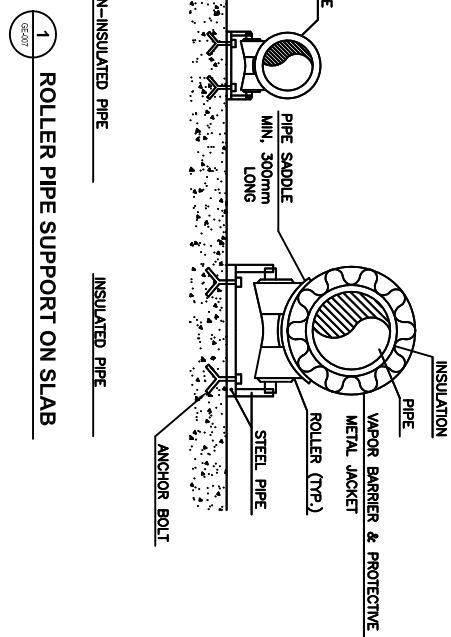
1 TYPICAL WATER PIPE TRENCH  
(Based up to 10cm)



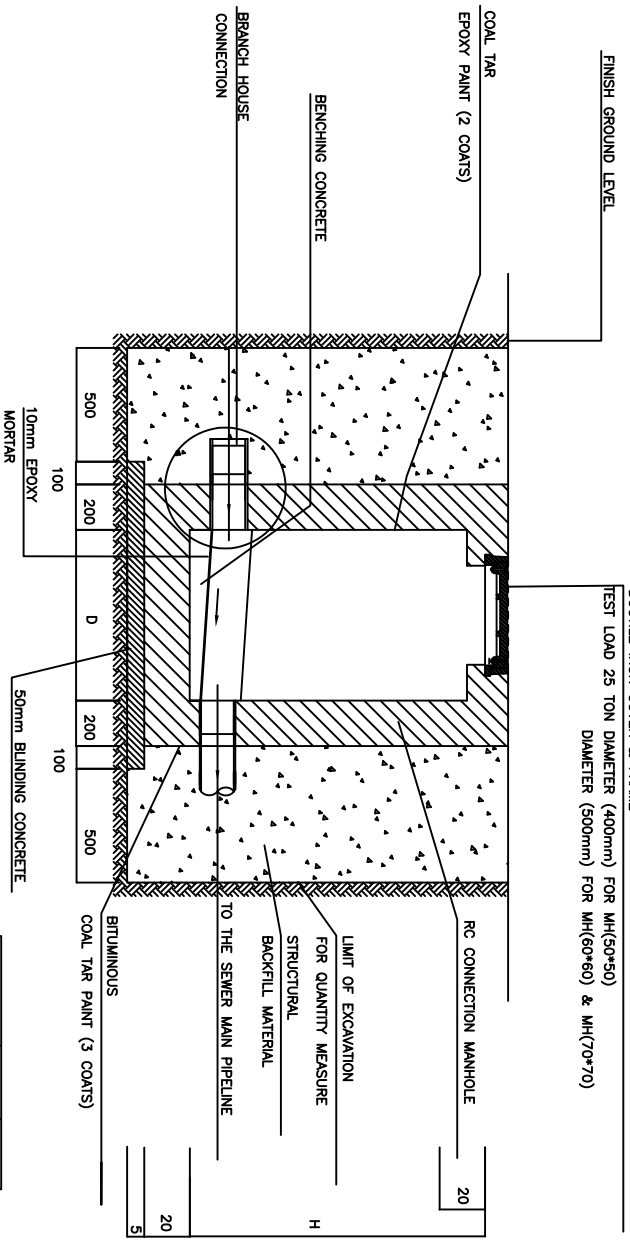
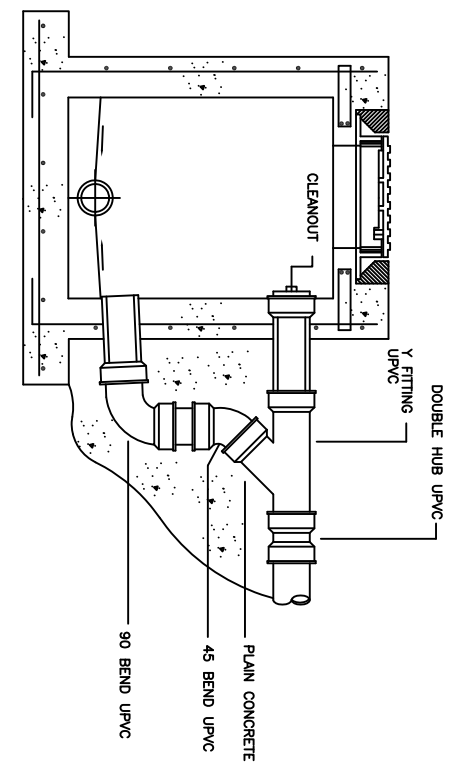
2 TYPICAL DRAINAGE PIPE TRENCH  
(Based up to 10cm)



3 VALVE BOX (WATER)  
(Based up to 10cm)

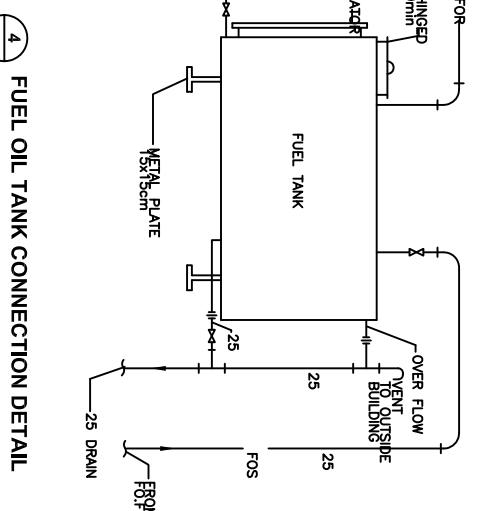
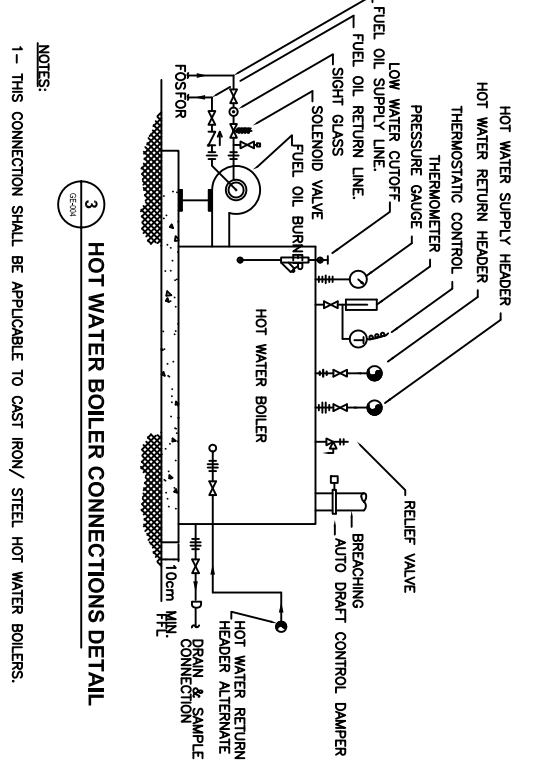
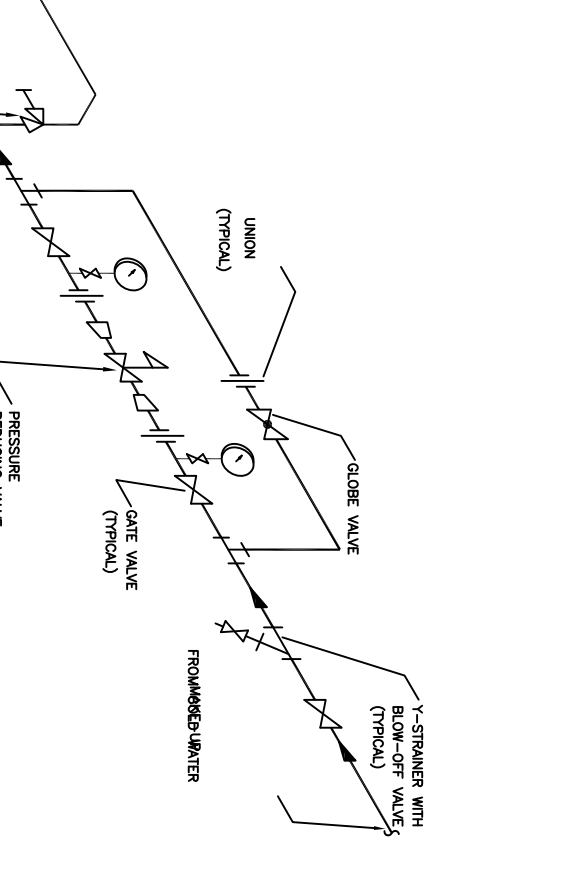
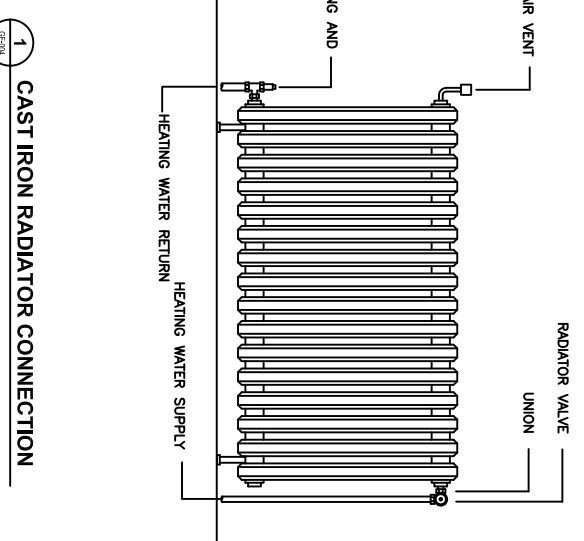


1 DROP MANHOLE  
(Based up to 10cm)



2 CONNECTION MANHOLE  
(Based up to 10cm)

TYPE	H	D
WATER	50	60
WATER	60	70
WATER	70	80



## TYPICAL DETAILS 2

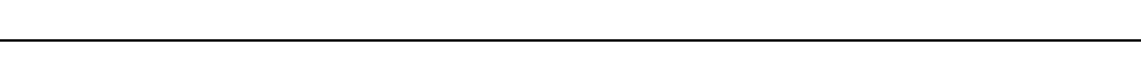
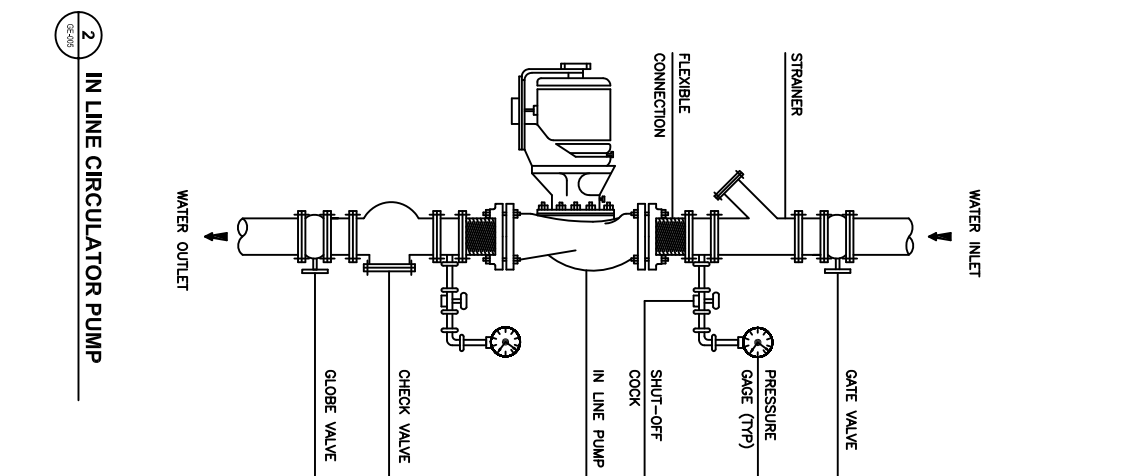
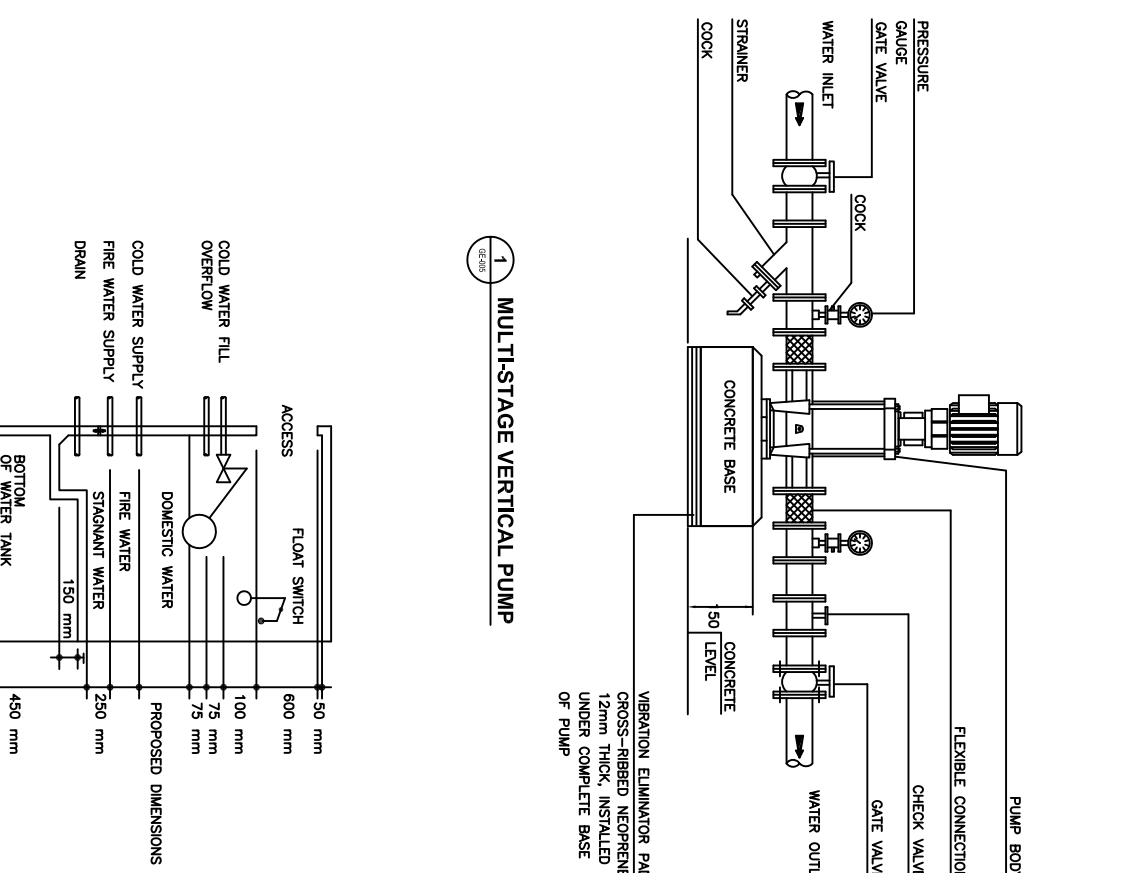
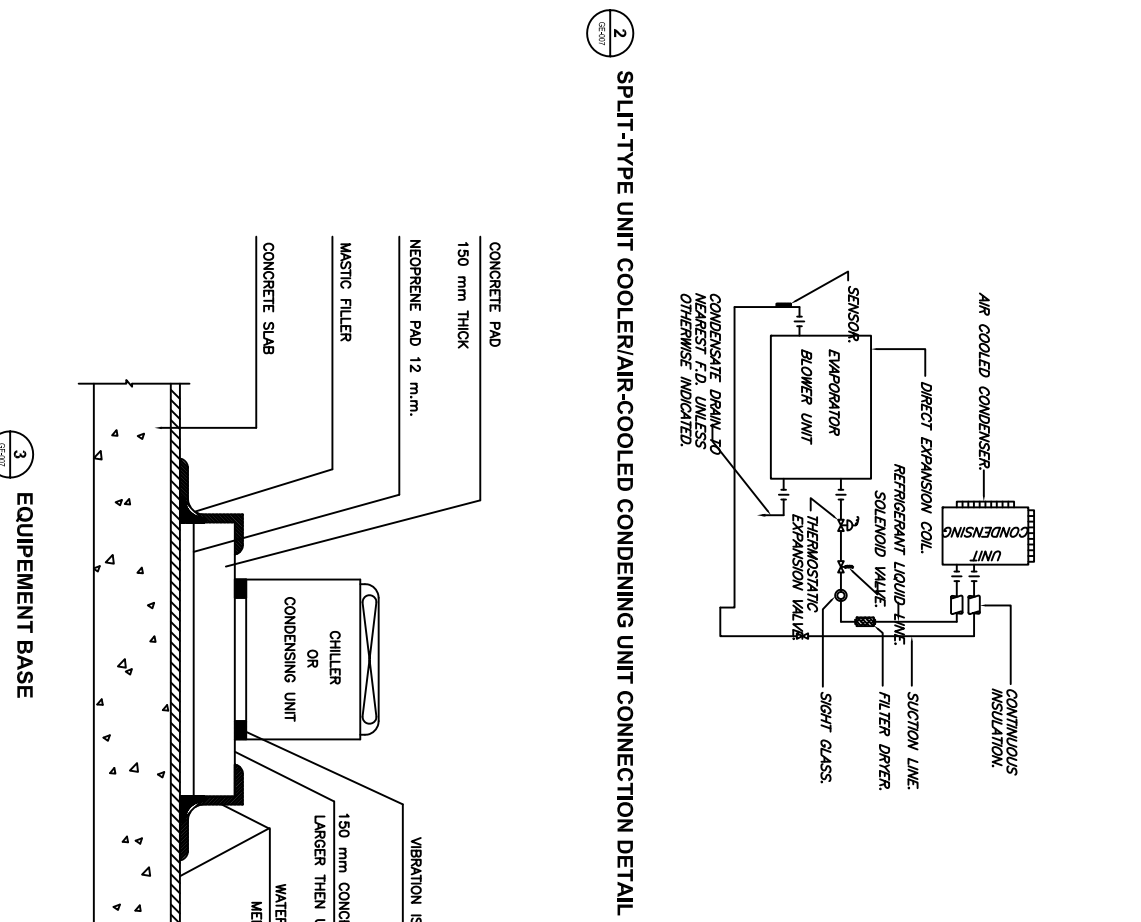
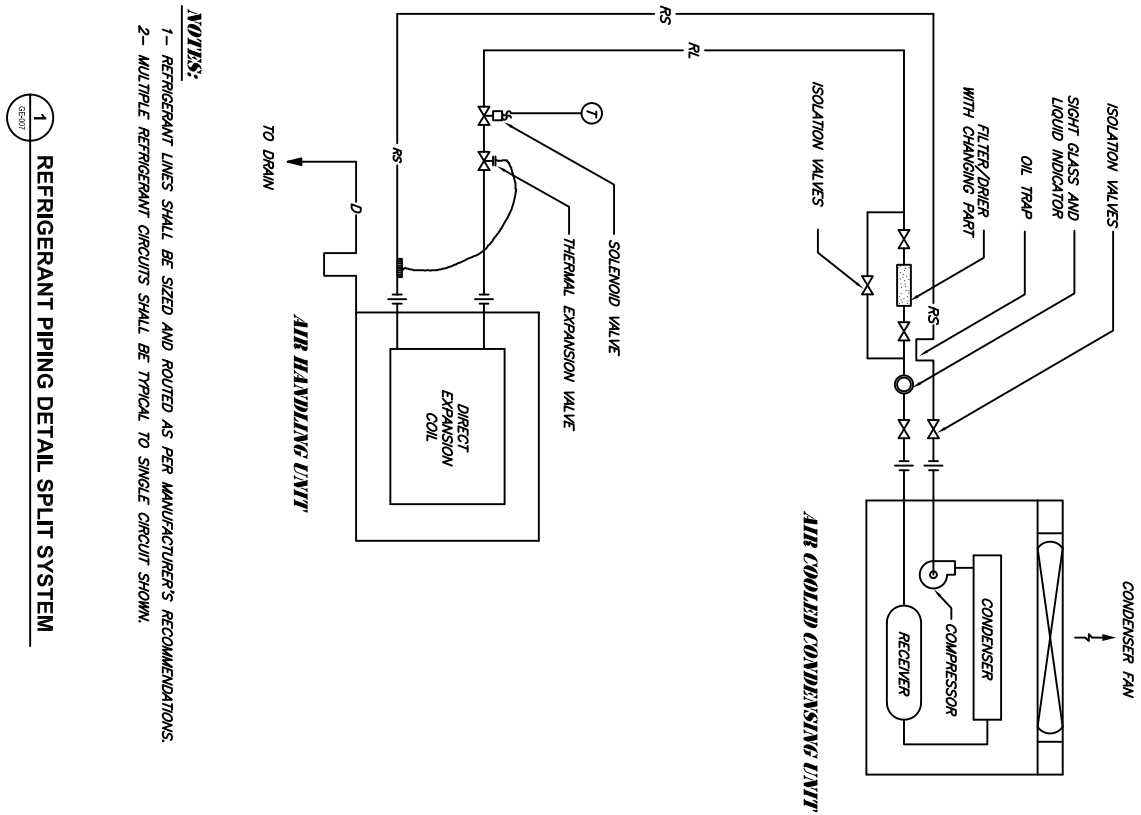
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Checked By:	V.B	Date: July-2016
Drawn By:	H.R	Date: July-2016
Client Code:		
Drawing No.:	L 10030-M-GE-002	Rev. 0
Approvals:		

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Lebanese Host Communities Support Programme

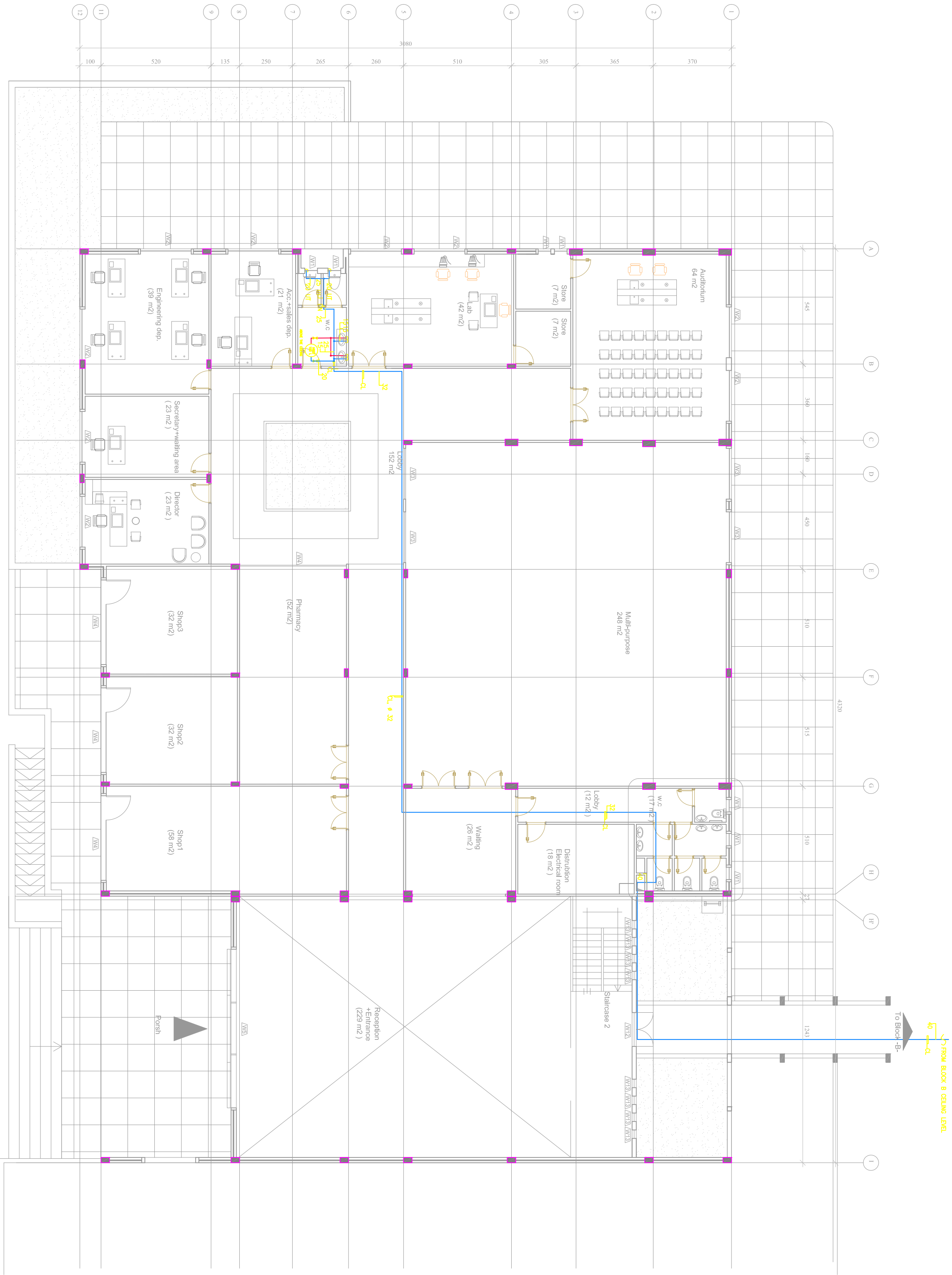
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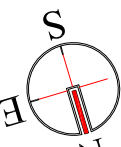
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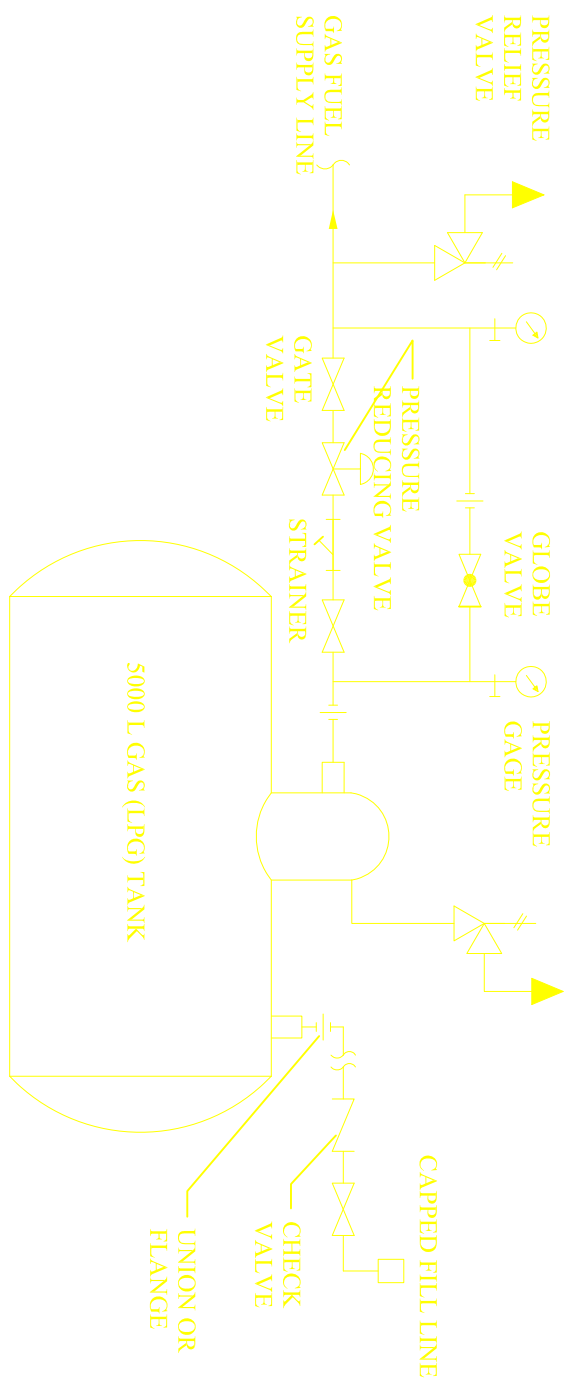
CONSULTANT:

Project  
WEST BEKAA- AGRICULTURE DEVELOPMENT CENTER  
PLOT # 442

Drawing Title  
GROUND FLOOR WS  
LAYOUT BLOCK-A-  
ELECTRICAL

Scale: 1/100	Sheet Size: A1	
Approved By: V.B	Date: July-2016	
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Client Code:		
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# 1 BURIED LPG TANK CONNECTIONS DETAIL

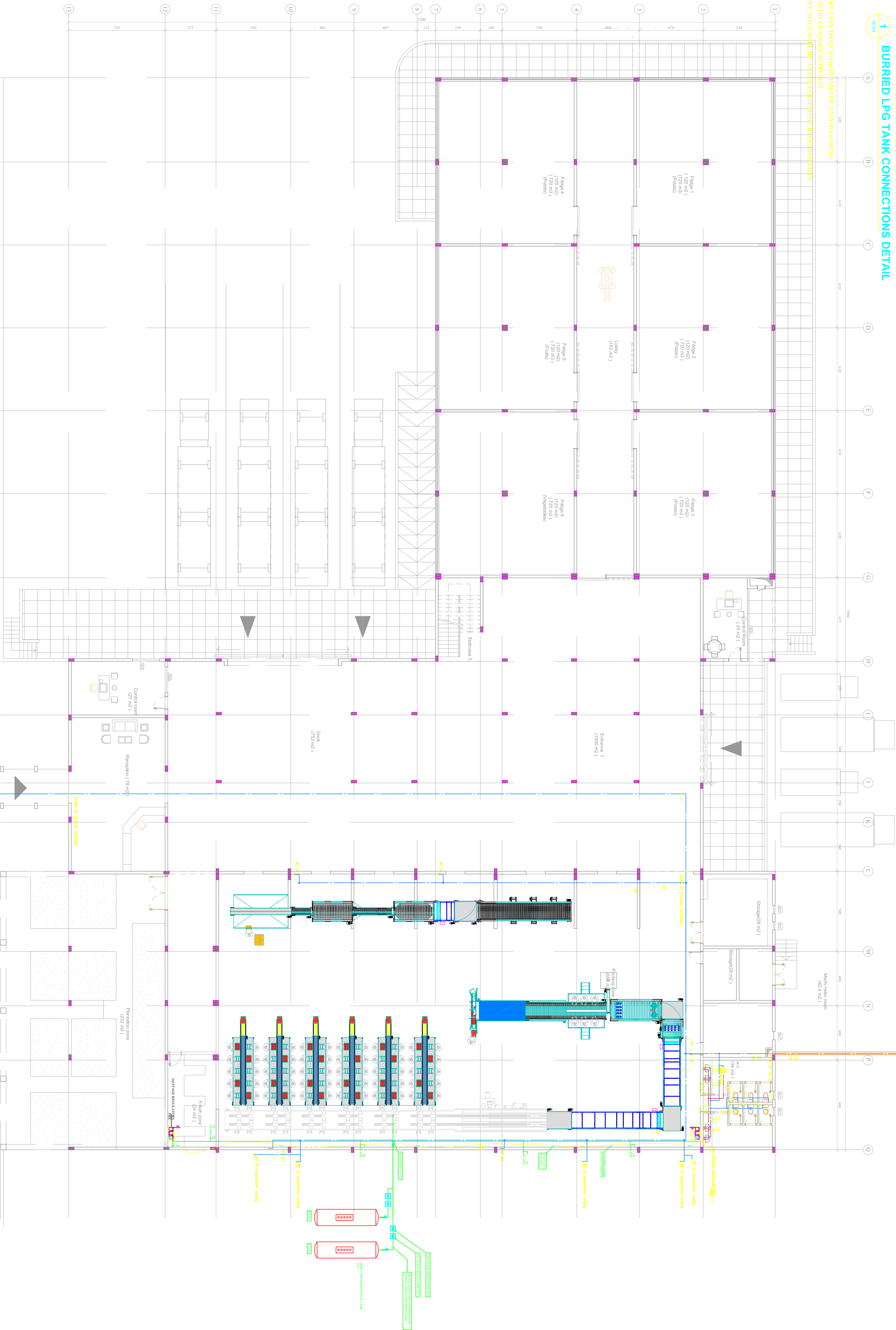
SEE PLAN

## NOTES:

- 1- SIZE OF DOME SHALL NOT BE LESS THAN 50 ON DIAMETER AND 60 ON HIGH
- 2- TANK SHALL BE SUPPORTED ON CRADLE SUPPORTS.
- 3- FINAL GAS BLACK STEEL PIPE SIZES WILL BE AS PER EQUIPMENT REQUIREMENTS.

FROM BLOCK 2, JUNE 2020  
IN PROGRESS, CONTACT REBOK

FOR CONTINUITY SEE GROUND FLOOR- BLOCK C



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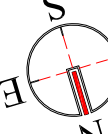
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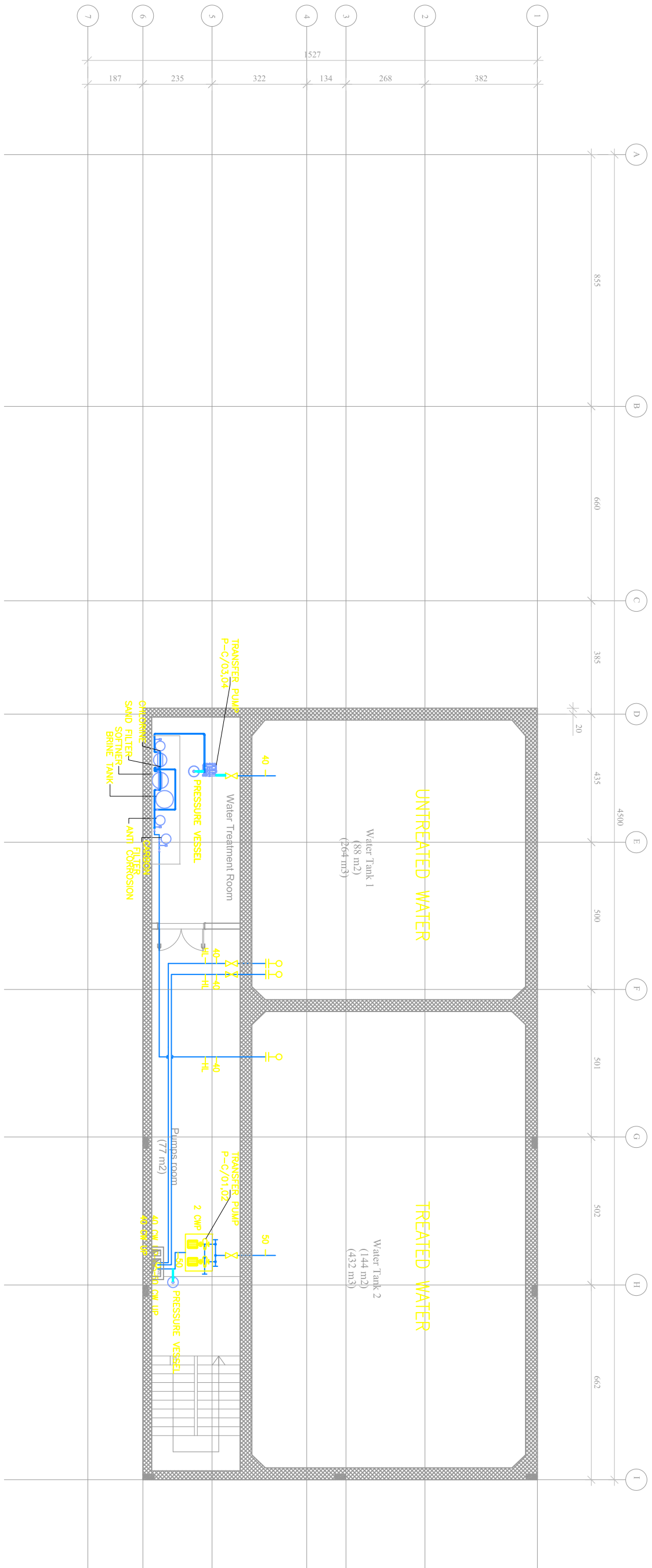
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PLOT # 442

Drawing Title  
GROUND FLOOR WS  
LAYOUT BLOCK-B-  
ELECTRICAL




Scale:	Sheet Size:	A1
Approved By:	V.B	Date: July-2016
Checked By:	V.B	Date: July-2016
Drawn By:	H.R	Date: July-2016
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Drawing No.	L1003D-MAB-208	Rev. 1
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Plot # 442  
Scale: 1/1000  
Date: 11/03/17  
Drawing No: L1003D-M-C-306



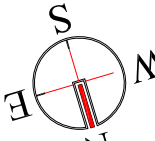
Lebanese Host Communities  
Support Programme

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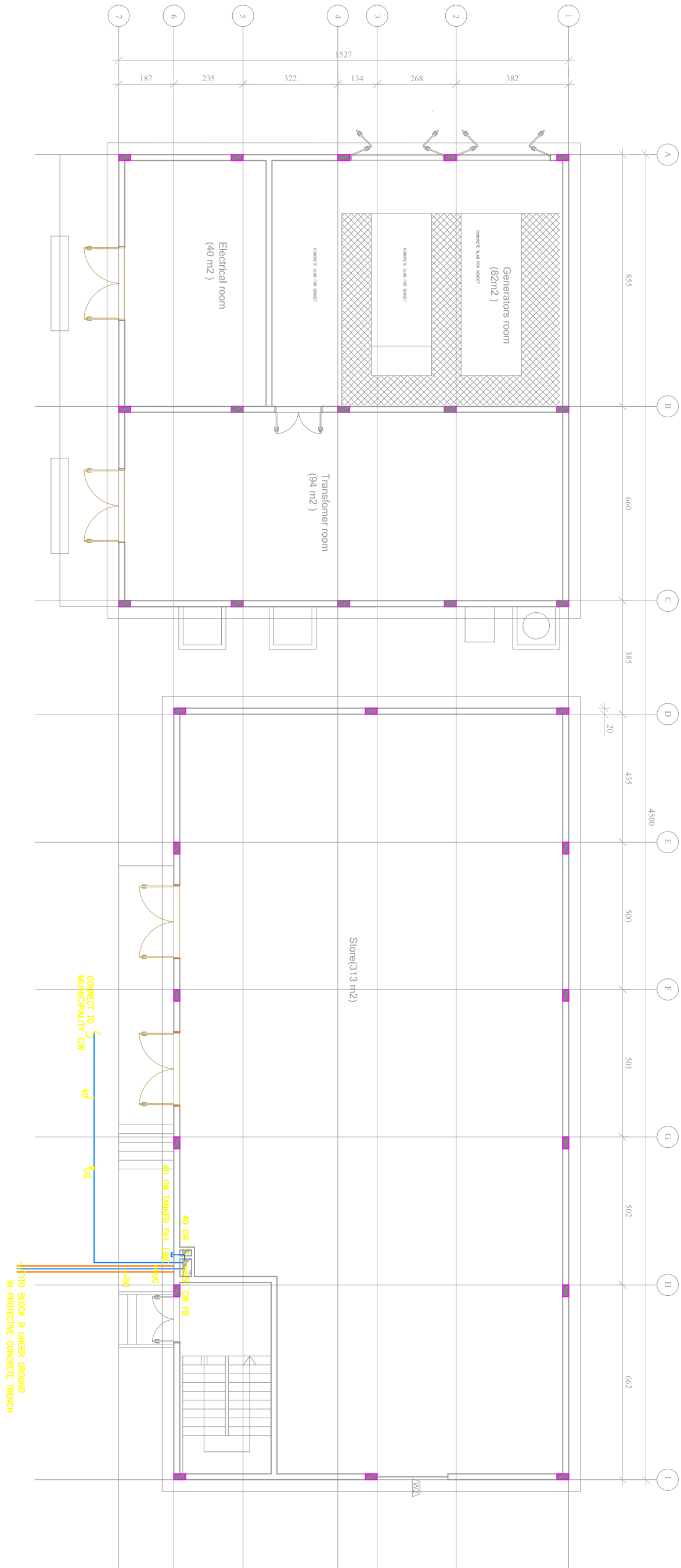
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Plot # 442

Drawing Title  
ELECTRICAL  
BASEMENT FLOOR WS  
LAYOUT BLOCK-C-

Scale: 1/100	Sheet Size: A1	
Approved By: V.B	Date: July-2016	
Checked By: V.B	Date: July-2016	
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Project  
WEST BERKA- AGRICULTURE DEVELOPMENT CENTER  
PLOT # 442

Drawing Title  
**GROUND FLOOR  
WS  
LAYOUT BLOCK-C-**

ELECTRICAL

Scale: 1/100	Sheet Size: A1	
Approved By: V.B	Date: July-2016	
Checked By: V.B	Date: July-2016	
Drawn By: H.R	Date: July-2016	
Client Code:		
Drawing No. L1003D-M-C-305	Rev. 0	
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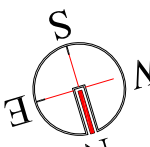
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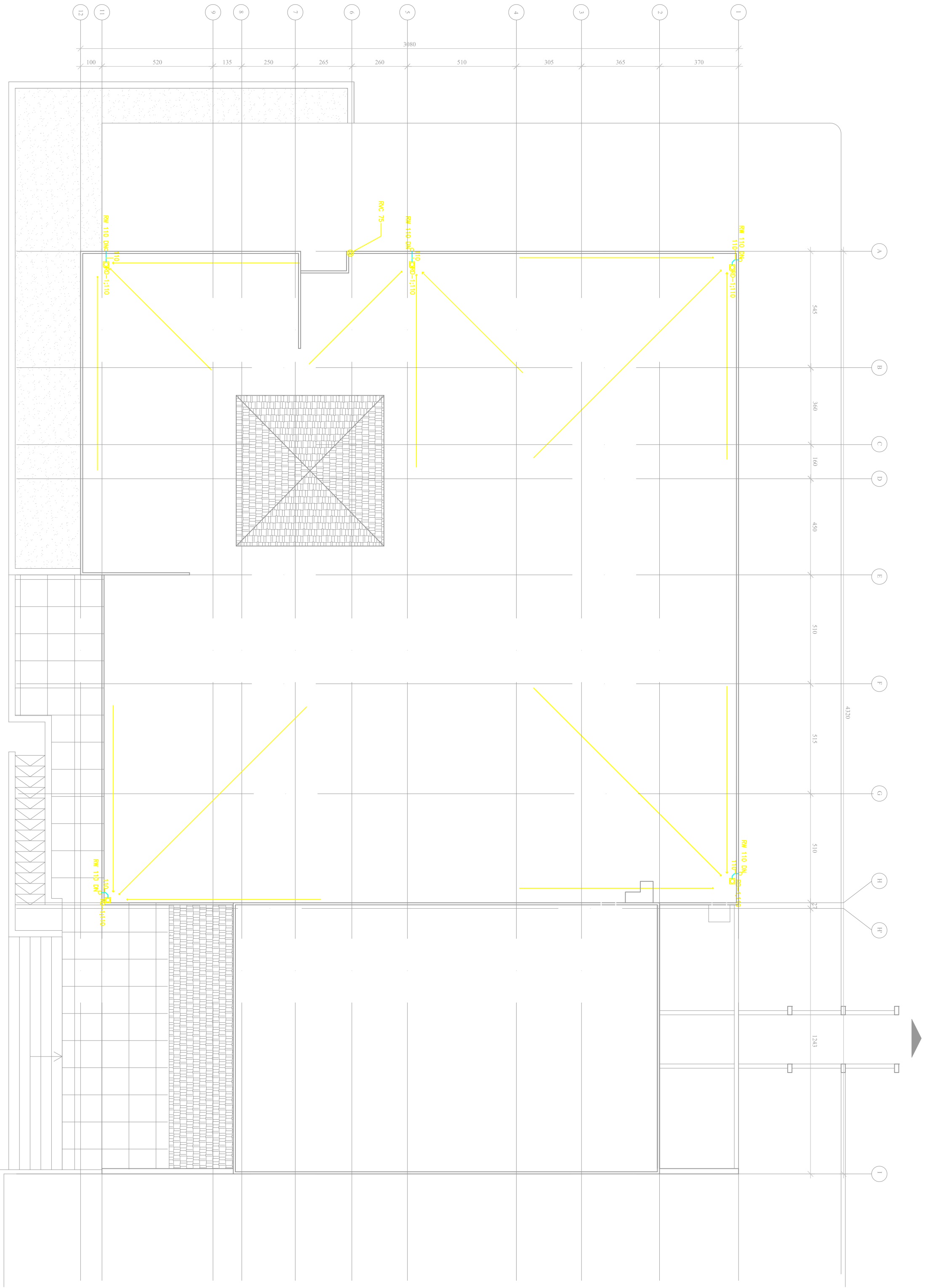
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1003D-M-C-305 (West Berka, Lebanon) 10.05.16 (05/2016)



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 UNDP Lebanon  
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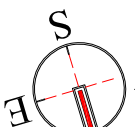
PROGRAMME:  
 Lebanese Host Communities  
Support Programme

CONSULTANT:

Project:  
WEST BEKAA- AGRICULTURE DEVELOPMENT CENTER  
PLOT # 442

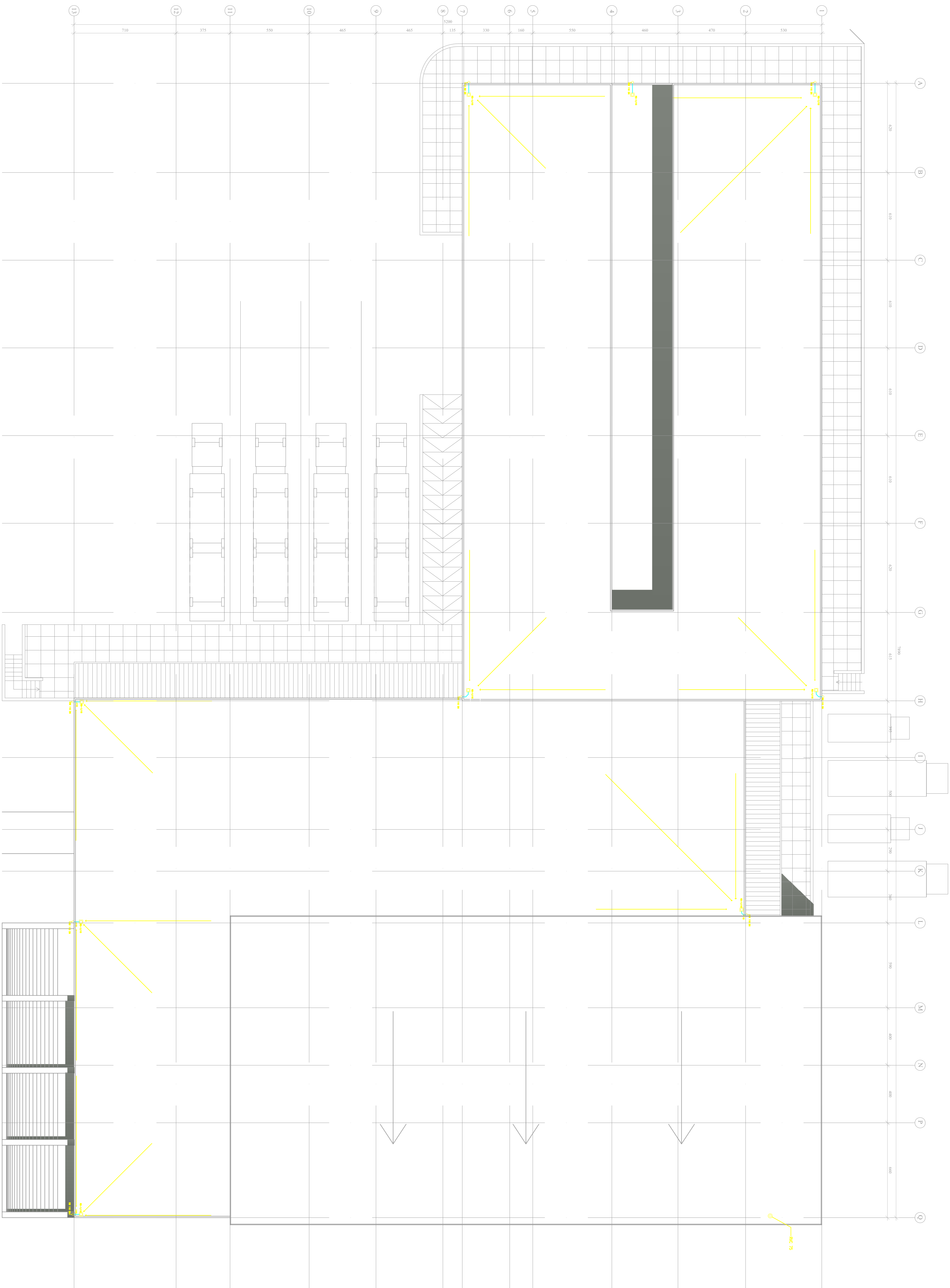
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**GROUND FLOOR WW  
LAYOUT BLOCK-A-**

Scale: 1/100	Sheet Size: A1	
Approved By: V.B	Date: July-2016	
Checked By: V.B	Date: July-2016	
Drawn By: H.R	Date: July-2016	
Client Code:		
Drawing No. L1003D-M-A-107	Rev. 0	
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UNDP Lebanon  
Social and Local Development Programme  
Focal Point: Social, Lebanon (05 811 15420)

Lebanese Host Communities  
Support Programme

CONSULTANT:

Project  
WEST BEKAA - AGRICULTURE DEVELOPMENT CENTER  
PLOT # 442

Drawing Title  
MASS FLOOR WW  
LAYOUT BLOCK-B-  
ELECTRICAL

Scale: 1/150	Sheet Size: A1	
Approved By: V.B	Date: July-2016	
Checked By: V.B	Date: July-2016	
Drawn By: H.R	Date: July-2016	
Client Code:		
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