

CODE OF PRACTICE

Design, detailing and workmanship shall be according to the Jordan Code for Reinforced Concrete

DIMENSIONS

All Dimensions are in Centimetres.

DRAWINGS

- 1- Structural drawings shall be read in conjunction with Architectural, Mechanical and Electrical drawings.
- 2- Sleeves and openings smaller than 200x200 mm are not shown on the Structural drawings. For required openings refer to Architectural, Mechanical and Electrical drawings.
- 3- Contractor shall prepare working drawings and bar bending schedules for reinforcement in a format agreed with the engineer.
- 4- Drawings are not necessarily to scale.
- 5- Chambers for fair faced concrete are not shown on Structural Drawings. Reference should be made to Architectural details for such purpose.

PLAIN CONCRETE

The following two types of plain concrete shall be employed:

C15 - Grade 15 for all plain concrete blinding under foundations.

C20 - Grade 20 for all plain concrete backing for stone walls.

Characteristic Strength as defined by a 150 mm cube at age of 28 days shall be:

C15 - 15 MPa
C20 - 20 MPa

Minimum cement content, per cubic metre, shall be:

C15 - 200 kilograms
C20 - 250 kilograms

Maximum water-cement ratio shall be:

C15 - 0.70
C20 - 0.85

COVER

Clear concrete cover to reinforcement shall be:

- 50 mm for concrete below grade.
- 25 mm for internal concrete faces above grade.
- 30 mm for exposed fair faced concrete surfaces.

AGGREGATES

Maximum aggregate size shall be 20 mm.

PROTECTION OF SUBSTRUCTURE

Bitumeneous Waterproofing Membrane shall be employed to protect and seal all reinforced concrete below grade or in contact with soil, including:

- bottom, side faces and top of footings,
- bottom, side faces and top of grade beams,
- side faces of columns and walls below grade,
- bottom of reinforced slab on grade.

REINFORCED CONCRETE

The following two types of reinforced concrete shall be employed:

C25 - Grade 25 for all reinforced concrete members except columns.

C30 - Grade 30 for all reinforced concrete Columns.

Characteristic Strength as defined by a 150 mm cube at age of 28 days shall be:

C25 - 25 MPa
C30 - 30 MPa

Minimum cement content, per cubic metre, shall be:

C25 - 300 kilograms
C30 - 350 kilograms

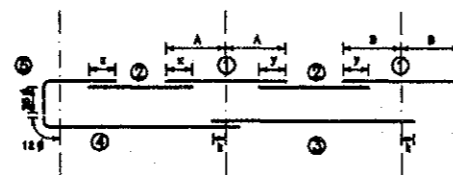
Maximum water-cement ratio shall be:

C25 - 0.80
C30 - 0.55

REINFORCEMENT

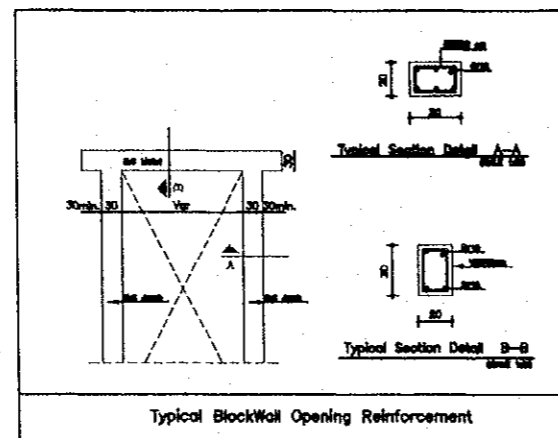
- 1- All reinforcing bars of a diameter larger than 8 millimetres shall be deformed high strength steel bars of Characteristic Strength equal to:
 $f_y=420$ MPa.
- 2- Bars of 6 and 8 millimetres diameter shall be of mild steel of Characteristic Strength equal to:
 $f_y=280$ MPa.
- 3- Reinforcement shall comply with BS4440, BS4481 or BS4483.
- 4- Reinforcement shall be placed as shown on the drawings and in the lengths specified.
- 5- Where bar length is not specified, longest practicable bar length shall be employed with staggered lap splices. Lap length shall be 55 times bar diameter.
- 6- Bar crank shall not exceed 1:12.

PLACEMENT RULES FOR BEAM REINFORCEMENT

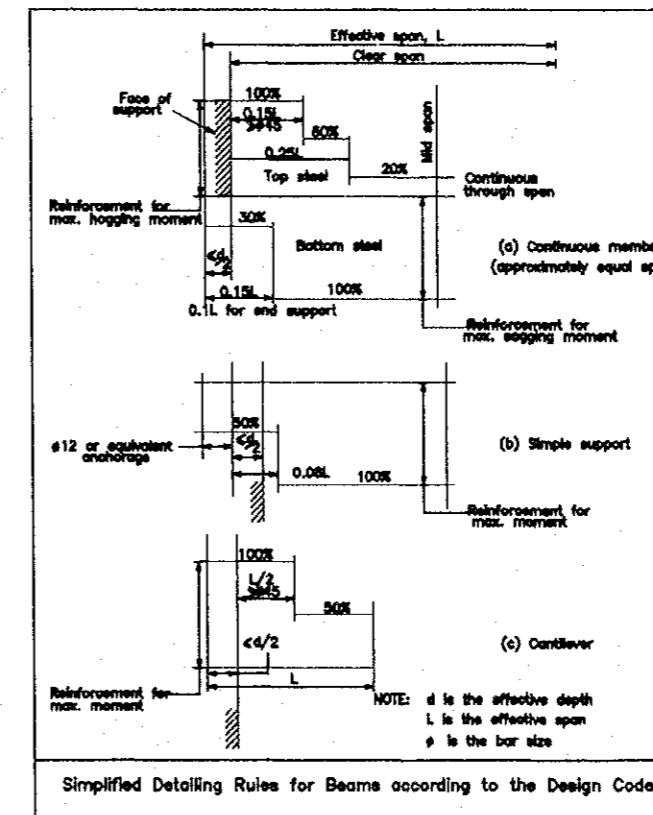
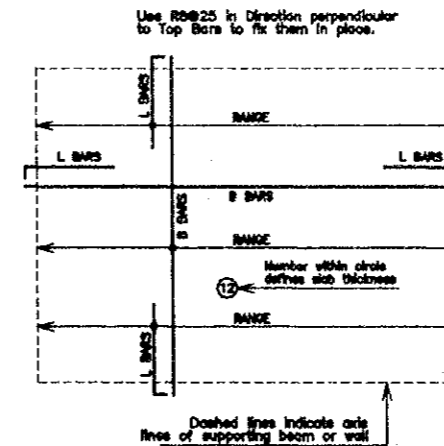


Placement of bars shall be as follows, unless indicated otherwise:

- 1- Top bars at interior supports shall be placed centrally on the support side lines, for approximately equal span.
- 2- Top bars in spans shall be placed to top equal lengths with support top bars at both left and right.
- 3- Bottom bars in interior spans shall be placed to extend equal lengths beyond support centerlines at both left and right.
- 4- Bottom bars in exterior spans shall be placed such that they extend a length equal to 12 times bar size beyond the centerline of the exterior support. This length may include a 90 degree bend if sufficient room does not exist.
- 5- L bars as top reinforcement at exterior supports shall extend 25 times the bar size beyond the bend.



Notation Employed for Solid Slab Panels



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JICA Study Team:

Joint Venture of Pacific Consultants International and Yamasita Sekkei Inc.

Subcontracted Local Consultant:

TIBAN Consultants
Architect, Engineers

Historic House Museum Of
Abu Jaber

Drawing Title:
Structural Drawing
General Notes

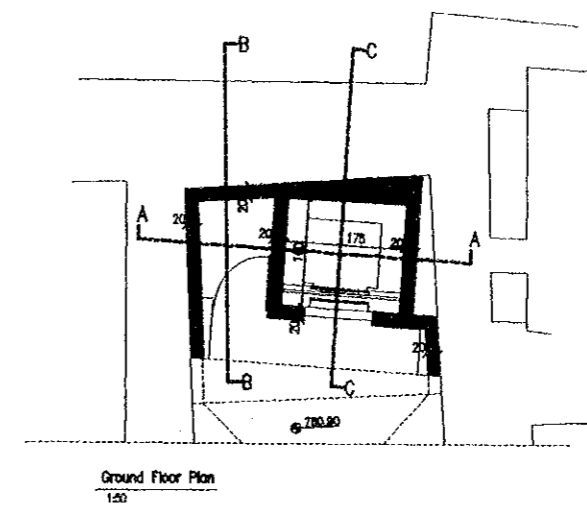
Scale: Drawing No.:
HHM.SD-001

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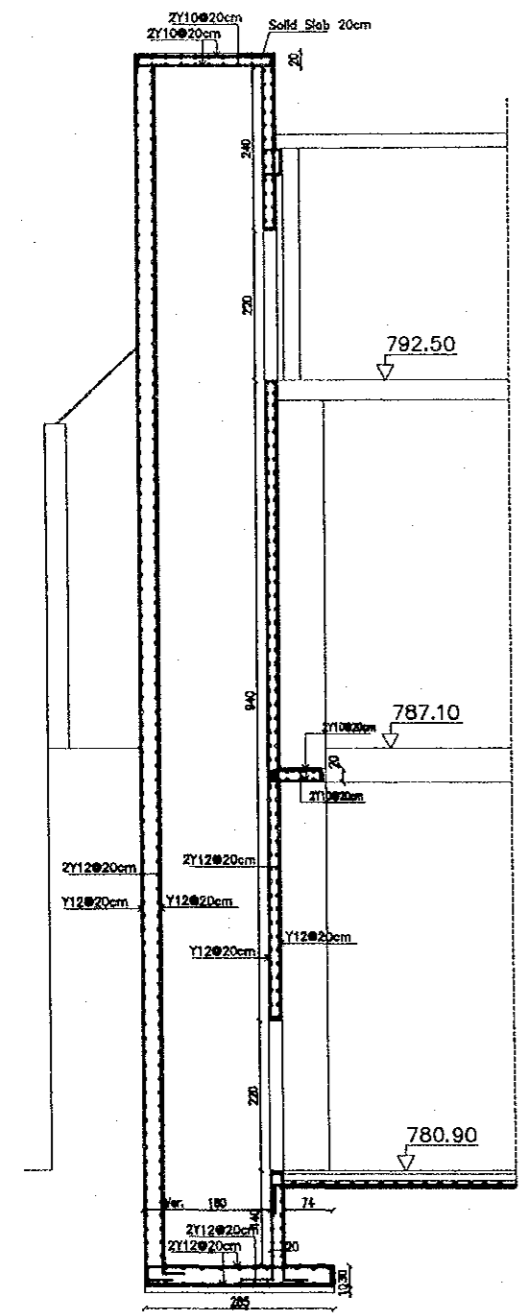
The Government of
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The Ministry of Tourism and Antiquities
The Ministry of Planning

Sub-Project:
Historic Old Salt Development
Historic Old Salt Museum
(Historic House Museum of Abu Jaber)

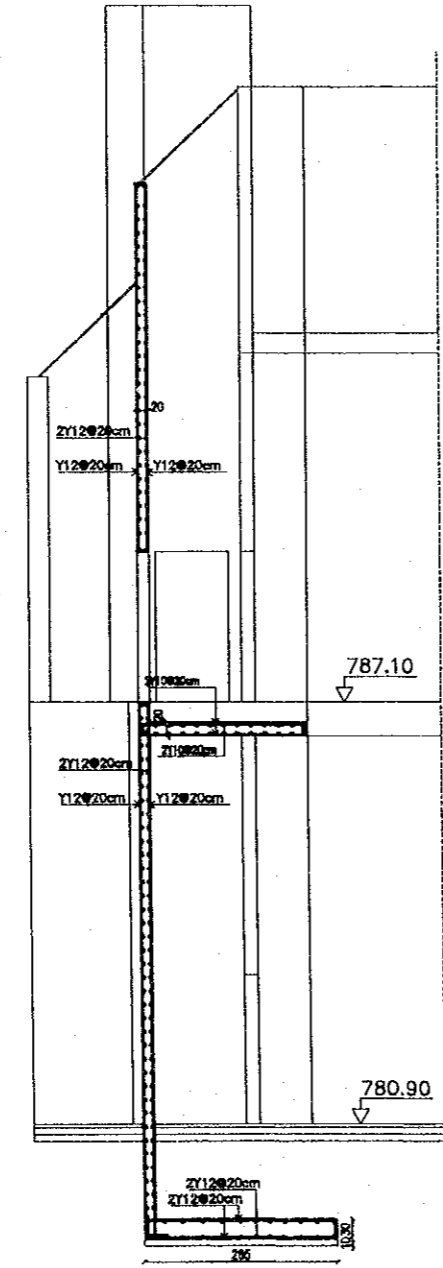
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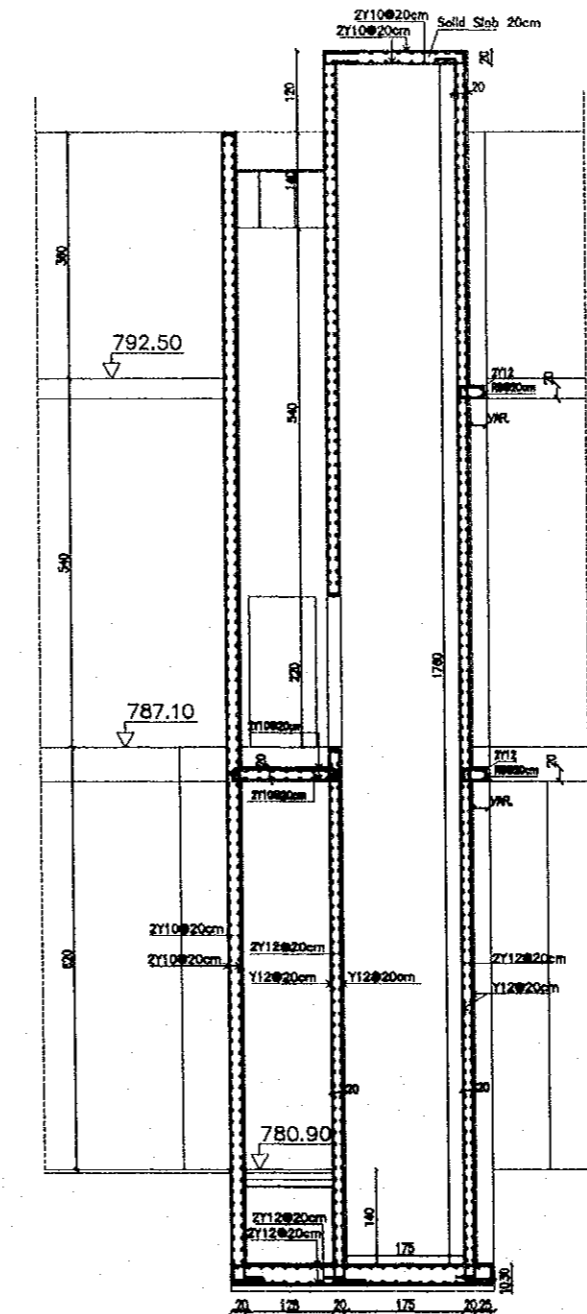
Ground Floor Plan
1:50



Section C - C
1:50



Section B - B
1:50



Section A - A
1:50

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Architects, Engineers

Historic House Museum Of
Abu Jaber
Drawing Title:
Structural Drawing
Elevator R.C Details

Scale:
1:50
Drawing No.:
HHM.SD-002

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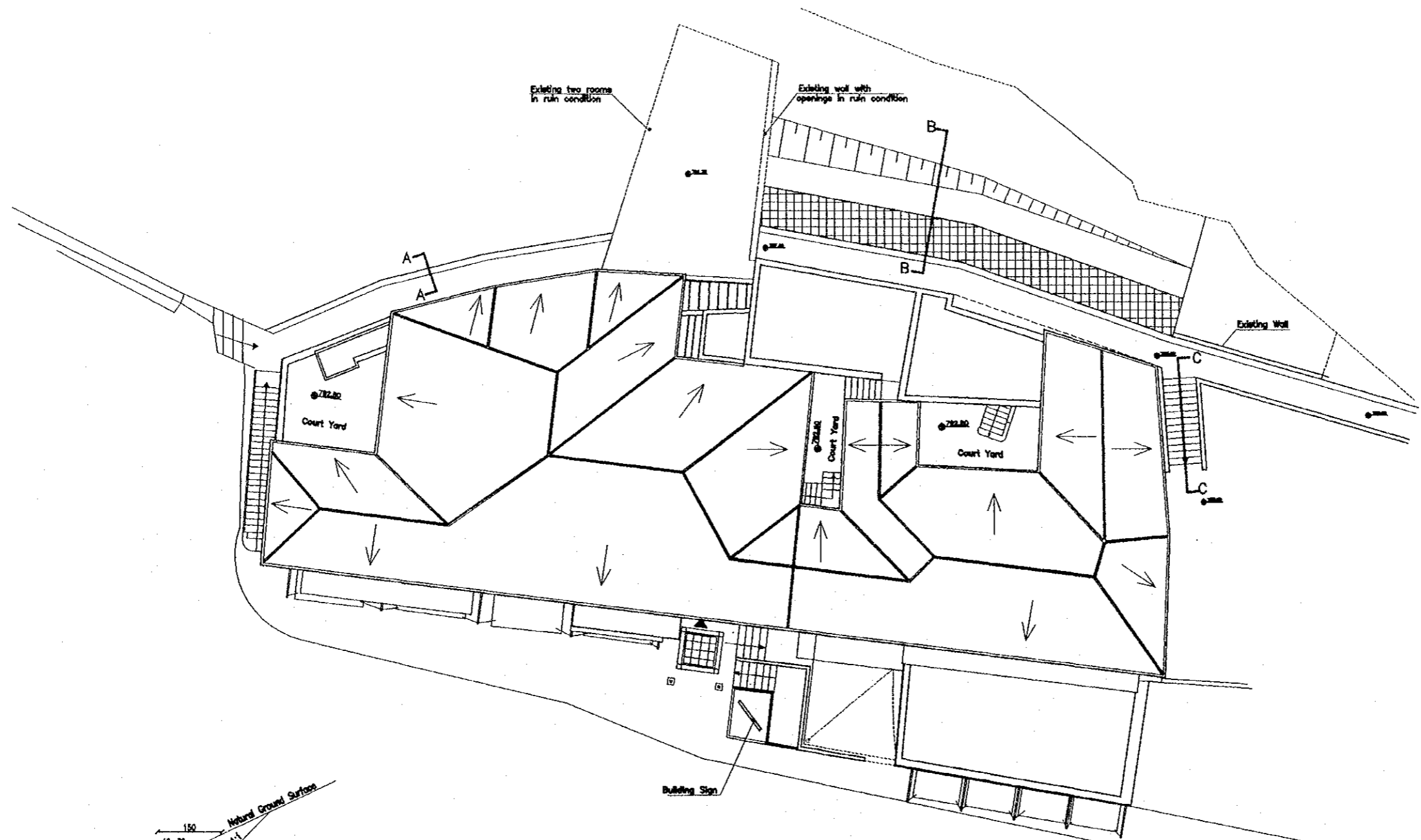
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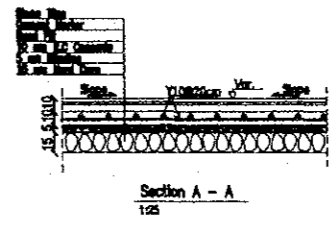
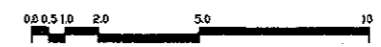
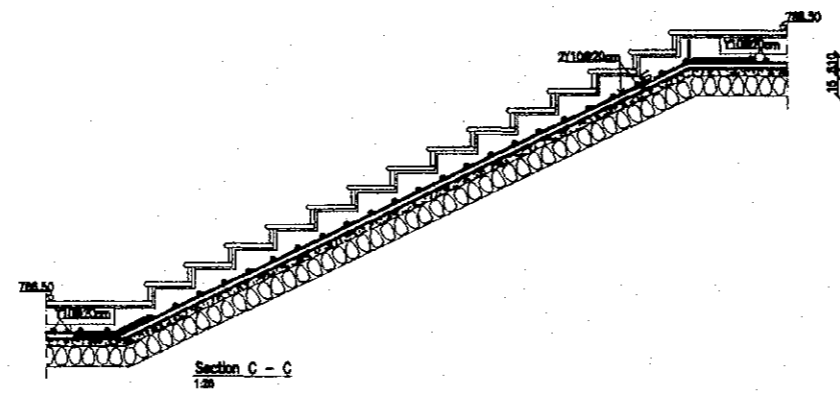
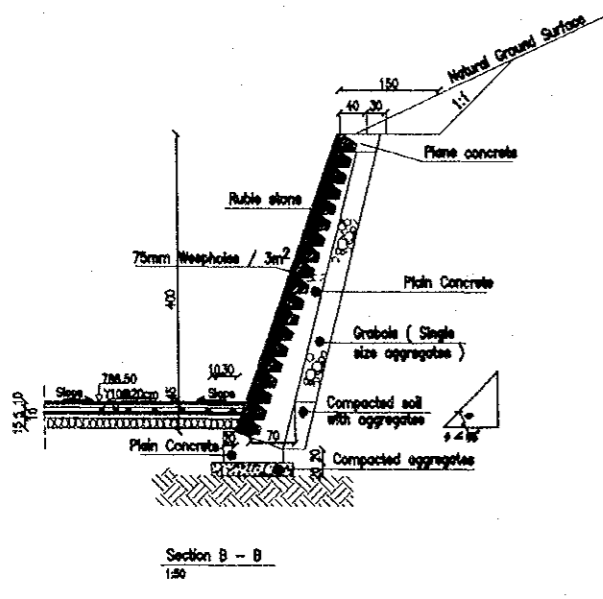
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Historic House Museum of
Abu Jaber
Drawing Title:
Structural Drawing
Site Plan R.C Details

Scale:
As Shown
Drawing No:
HHM.SD-003



Site Plan
1:100

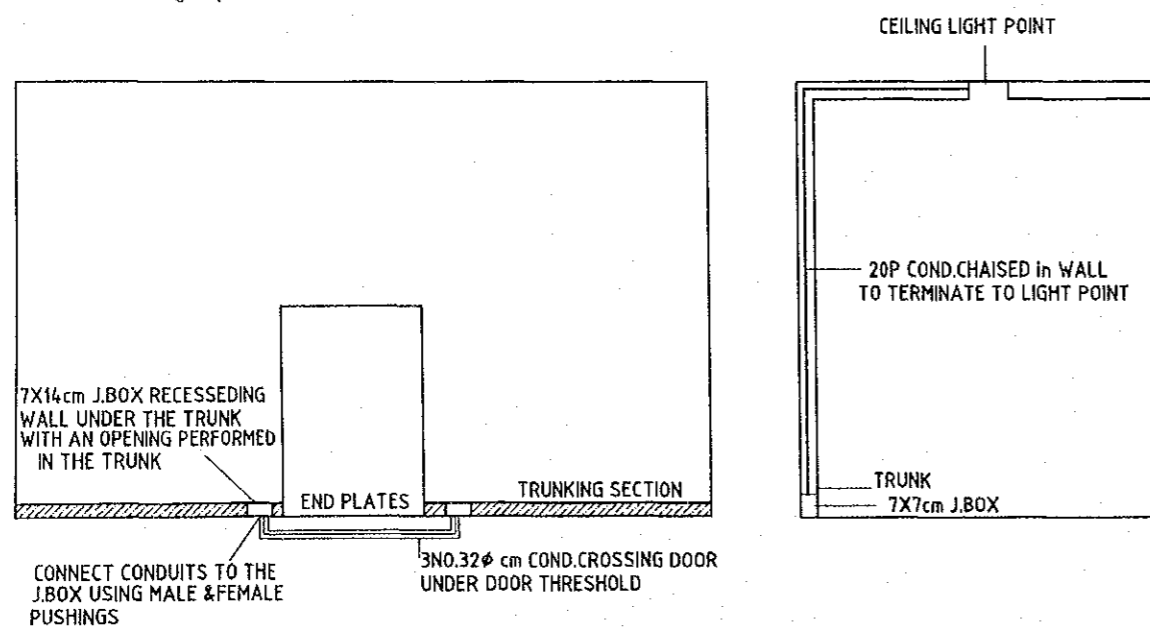


ELECTRICAL LEGEND

LIGHTING LEGEND

TYPE	SYMBOL	DESCRIPTION
C		CYLINDRICAL PENDANT LIGHT FIXTURE WITH ALUMINIUM CYLINDER WHITE RAL (9002) FINISH POWDER COATED WITH E 27 LAMP HOLDER WITH PENDANT TUBE SIMILAR TO ERCO 87202 COMPLETE WITH 120 WATT PAR 38 LAMP
F1		1x18 WATT REINFORCED POLYESTERENE BODY TO IP 65 CORROSION RESISTANCE FLOURESENT LIGHT FIXTURE SIMILAR TO THORN LUES 118
F2		DITTO BUT 1x36 W. SIMILAR TO THORN LUE 136
B		DIE CAST AL.BASE SANDBLASTED GLASS DIFFUSER FOR 100WATT GLS LAMP TO IPLET AS SIMES S 6531 OR EQUAL
U1		WALL MOUNTED UP LIGHT BODY MADE OUT OF BRASS FOR 100W. GLS LAMP SIMILAR TO BOOM CODE NO. B1250 OR EQUAL
U2		DITTO BUT SIMILAR TO BOOM CODE NO. B1019 OR EQUAL
LT		LIGHT TRACK 230 V./50HZ. FIGURE (X) IN BRACKETS TO INDICATE THE LENGTH OF THE TRACK SIMILAR TO ERCO 1-CIRCUIT TRACK COMPLETE WITH ALL ACCESSORIES SUCH AS : TERMINAL BOXES, COUPLERS, CORNERS, TEES, HANGING RODS, ETC... TO GIVE A COMPLETE SYSTEM WITH THE SPECIFIED SPOTS
ST		A TRACK MOUNTED SPOT LIGHT FOR BAR 30-100W. E27 IN WHITE COLOUR SIMILAR TO ERCO 77246 OR EQUAL
UT		DITTO BUT FOR 100W. /12V HALOGENE SPOT LIGHT SIMILAR TO ERCO CODE NO. 77569 OR EQUAL
P		CAFETERIA PENDANT SIMILAR TO BOOM B1073 OR EQUAL
EM		1x8 W. SELF CONTAINED MAINTAINED FOR 3 HR DURATION EMERGENCY LIGHT FIXTURE SIMILAR TO THORN CODE NO. EWB3M
EX.		DITTO BUT WITH EXIT SIGN
L		A RECESSED DIE CAST AL.FIXTURE FOR 26 W. TCD LAMP COMPLETE WITH PROTECTION GUARD AND HOUSING BOX SIMILAR TO IGUZZINI CODE NO. 7129-0045 OR EQUAL
G		A GROUND BURRED LUMINAIRE OF DIE CAST AL.BODY & POLYPROPYLENE TUBE FOR RECESS AND TOUGHENED GLASS WITH 15mm THICKNESS & A REFLECTOR & STAINLESS STEEL SCREWS TO IP67 & TO HOUSE A 50 W. METAL HALIDE LAMP AND POSITION IS ADJUSTABLE SIMILAR TO SIMES CAT.NO.S.4931 OR EQUAL
FL		400 W. HIGH PRESSURE SODIUM FLOOD LIGHT SIMILAR TO DISANO CODE NO. 44-064-01 OR EQUAL

CL4



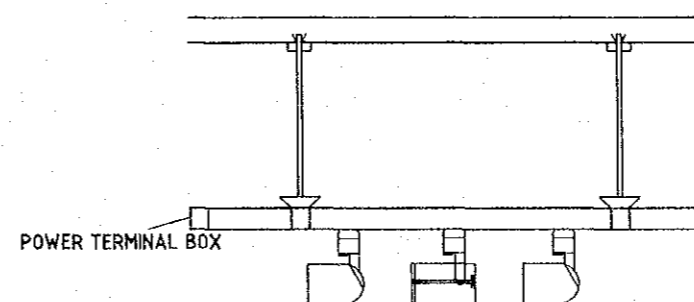
DETAILS FOR SKIRTING TRUNKING CROSSING DOORS AND LIGHT CIRCUIT TERMINATION

POWER LEGEND

SYMBOL	DESCRIPTION
	10 A, ONE WAY ONE GANG LIGHT SWITCH
	DITTO BUT TWO GANG
	10 A, TWO WAY ONE GANG SWITCH
	OUT LET FOR ELECTRIC WATER HEATER
	20 AMPS DOUBLE POLE SWITCH WITH LED INDICATION LAMP
	2 POLE ISOLATING SWITCH
	3 POLE ISOLATING SWITCH
	13 A SWITCHED SOCKET OUT LET ONE GANG
	DITTO BUT DUPLEX
	DITTO BUT WEATHER PROOF
	DISTRIBUTION BOARD
	MAIN DISTRIBUTION PANEL
	EARTHING PIT
	TWIN COMPARTMENT TRUNKING 100X40 mm MK NBT/4TC/W141 OR EQUAL
	CONDUIT RUN UNDER FLOOR TO CONNECT BETWEEN TRUNKING SECTIONS SIZE AND NUMBER AS INDICATED

LOW CURRENT LEGEND

SYMBOL	DESCRIPTION
	RJ11-TEL OUT LET
	SMOKE DETECTOR
	MANUAL CALL POINT, BREAK GLASS UNIT
	FIRE ALARM CONTROL CABINET
	20φ CONDUIT OCCUPIED BY 2X1.5mm pvc/COPPER
	6φ ALARM BELL
	END OF LINE COMPENSATION ELEMENT
	TELEPHONE TERMINAL BOX
	PRIVATE AUTOMATIC EXCHANGE BOX
	MAIN DISTRIBUTION FRAME



NOTE:-
SUPPORTS FOR LIGHT TRACK HAVE TO BE INSTALLED in an AVARAGE 2 FOR UP TO 2M. LONG AND 3 FOR UP TO 4M. LONG TRACK, ABOVE THESE LENGTHS NO.OF SUPPORTS HAS TO BE COORDINATED AND APPROVED BY THE ENGINEER

Tourism Sector Development Project
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The Government of
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The Ministry of Tourism and Antiquities
The Ministry of Planning

Sub-Project:

Historic Old Salt Development
Historic Old Salt Museum
(Historic House Museum of Abu Jaber)

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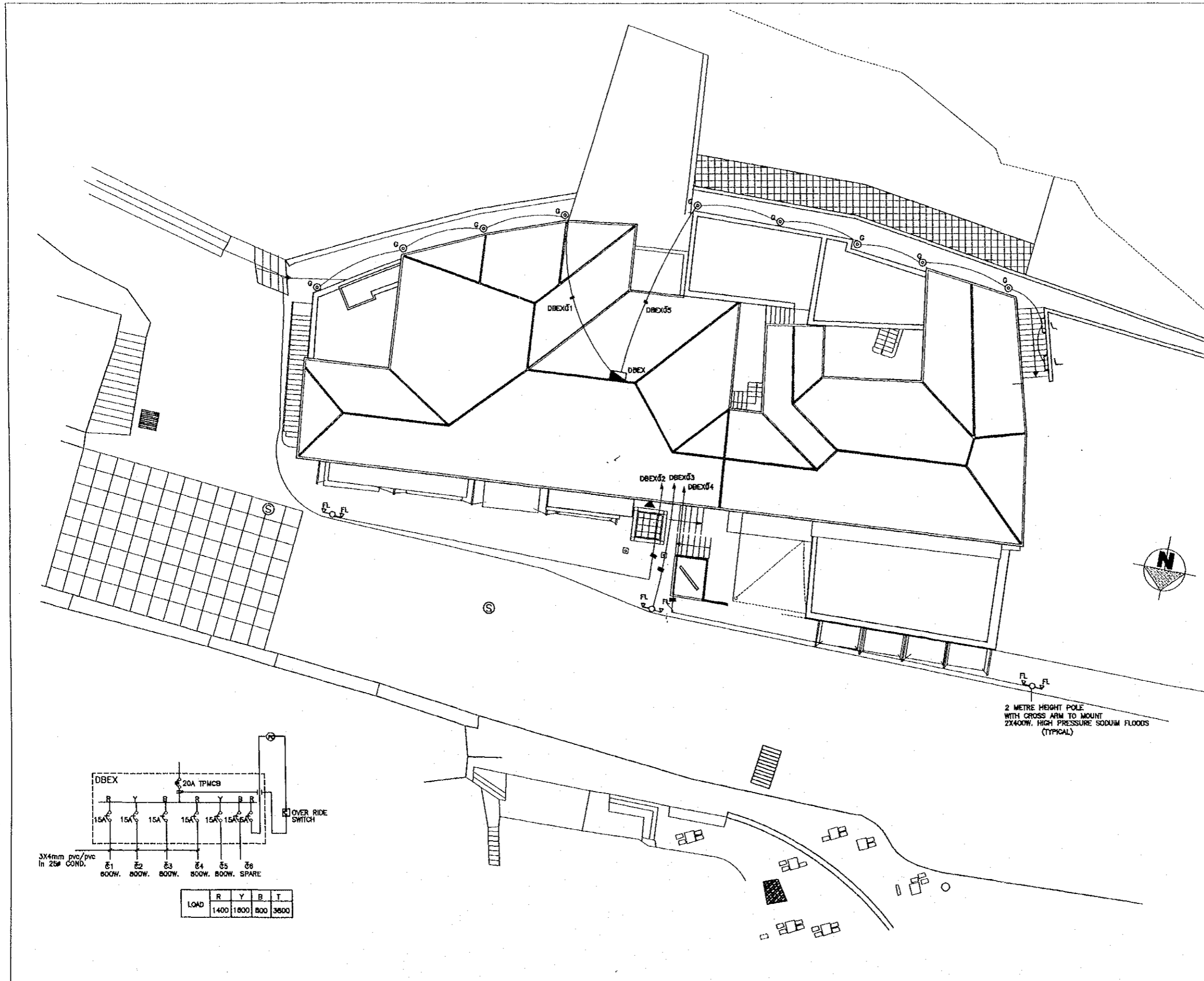
Historic House Museum Of
Abu Jaber

Drawing Title:

ELECTRICAL LEGEND
AND DETAILS

Scale:
NTS

Drawing No.:
HJM.EI-001



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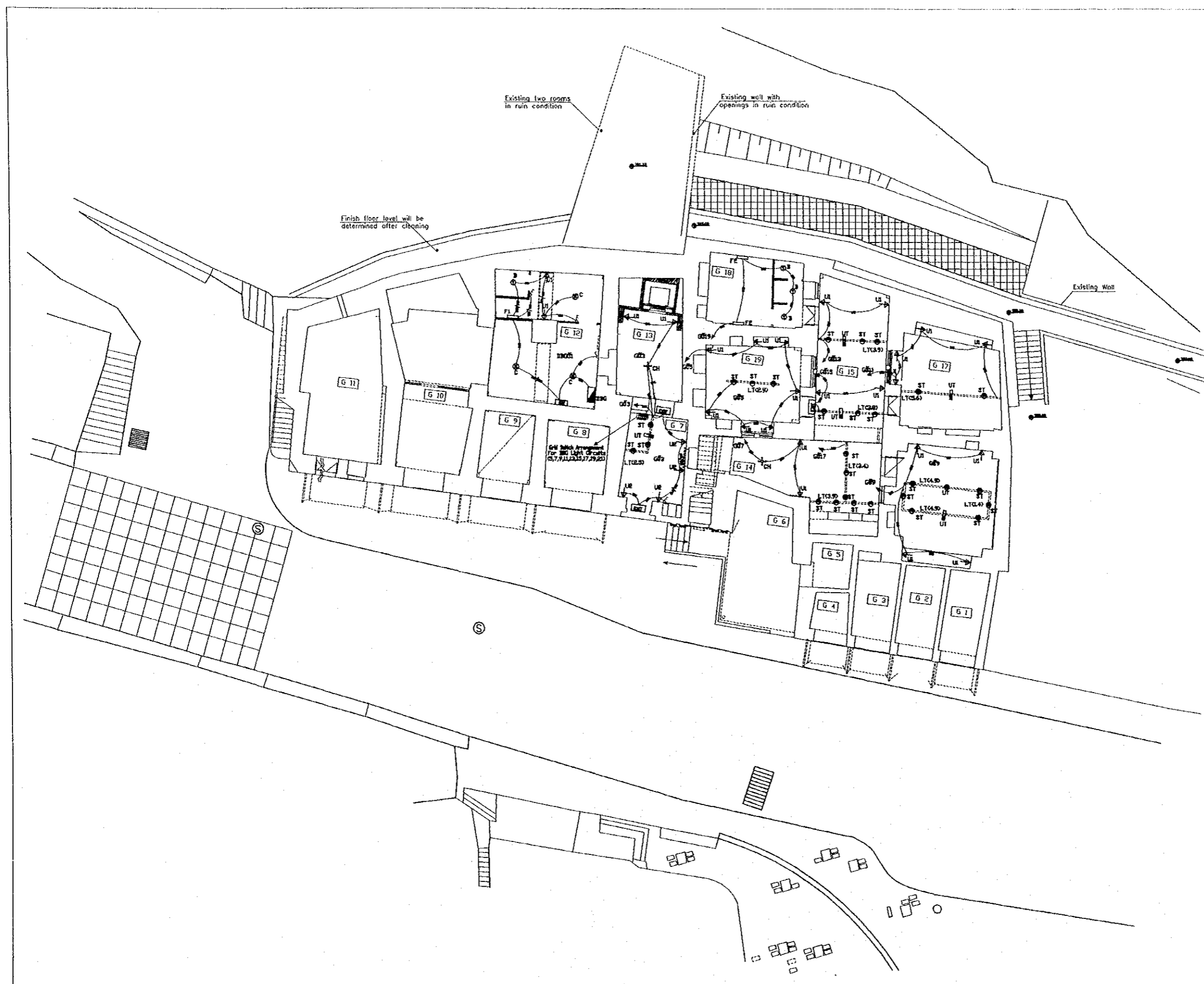
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Historic House Museum Of
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Drawing Title:
SITE PLAN LIGHTING LAYOUT

Scale: 1:100
Drawing No.: HHM.EL-002



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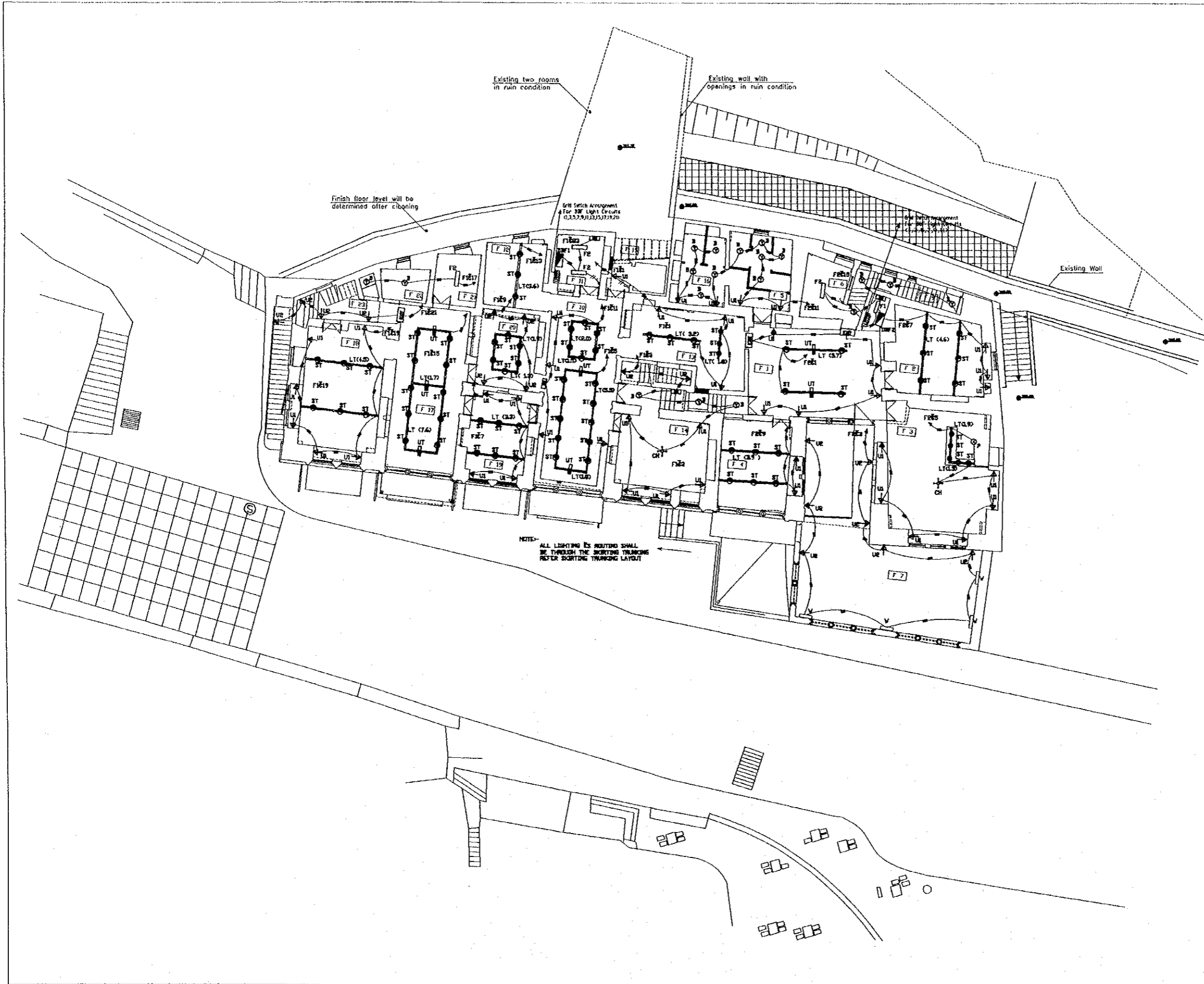
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Historic House Museum Of
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Drawing Title:
Ground Floor Lighting Layout

Scale: 1:100
Drawing No.: HHM.EL-003



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Historic House Museum of
Abu Jaber
Drawing Title:
First Floor Lighting Layout

Scale: 1:100
Drawing No.: HHM.EL-004

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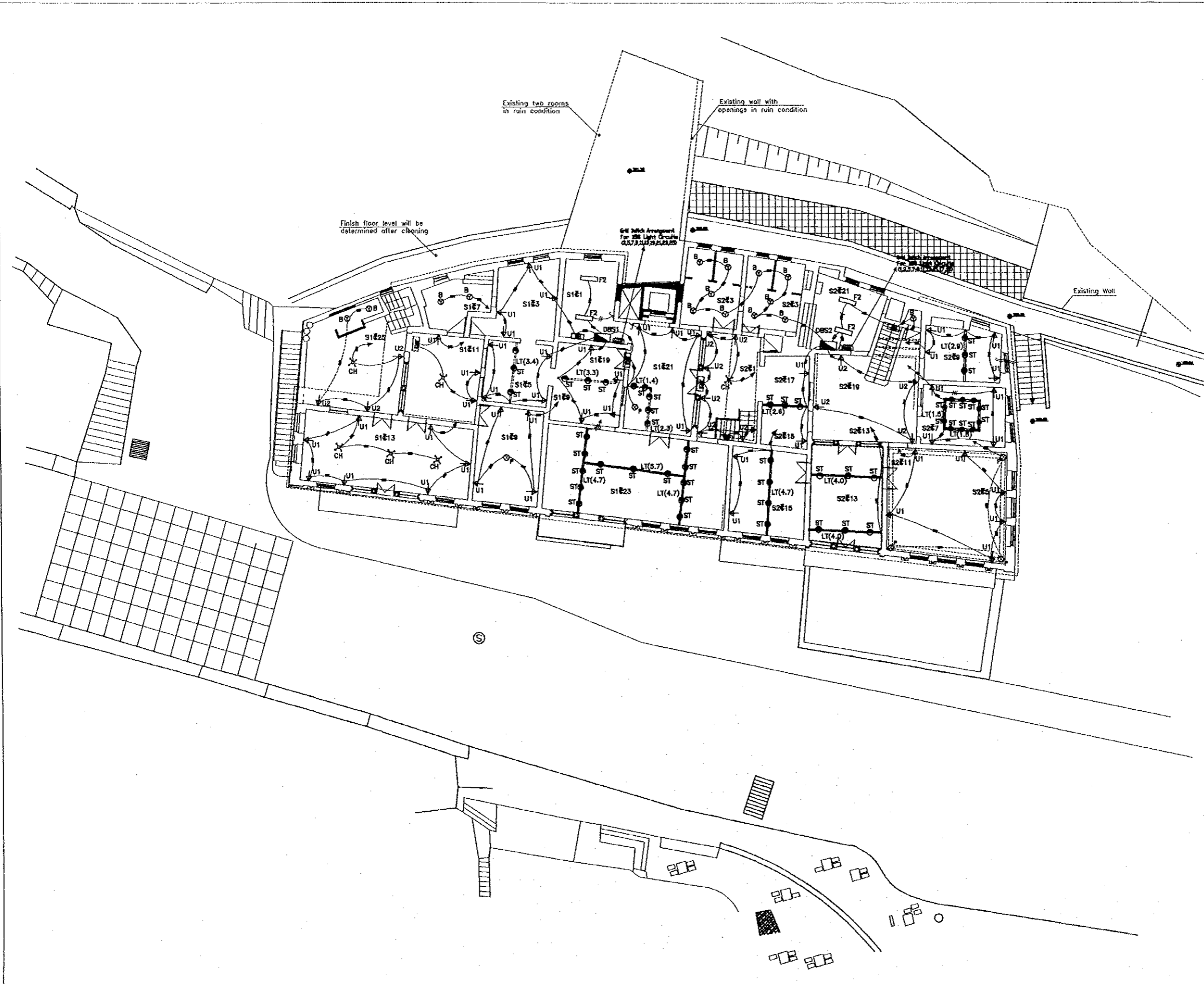
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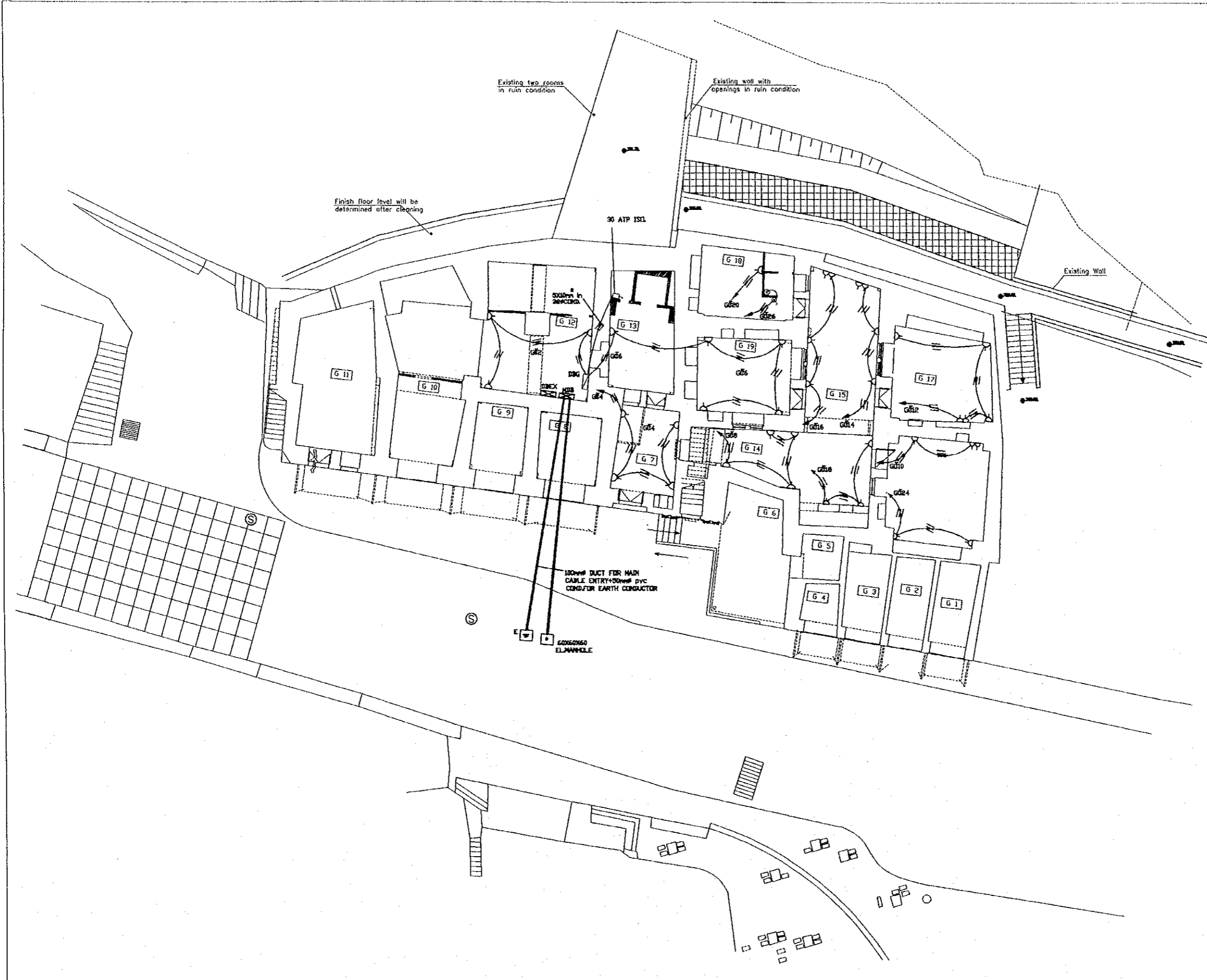
Subcontracted Local Consultant:
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Architects, Engineers

Historic House Museum Of
Abu Jaber

Drawing Title:
Second Floor Lighting Layout

Scale: 1:100
Drawing No.: HHM.BL-005





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Historic House Museum Of
Abu Jaber
Drawing Title:
Ground Floor Power Layout

Scale: 1:100
Drawing No.: HHM.EL-006

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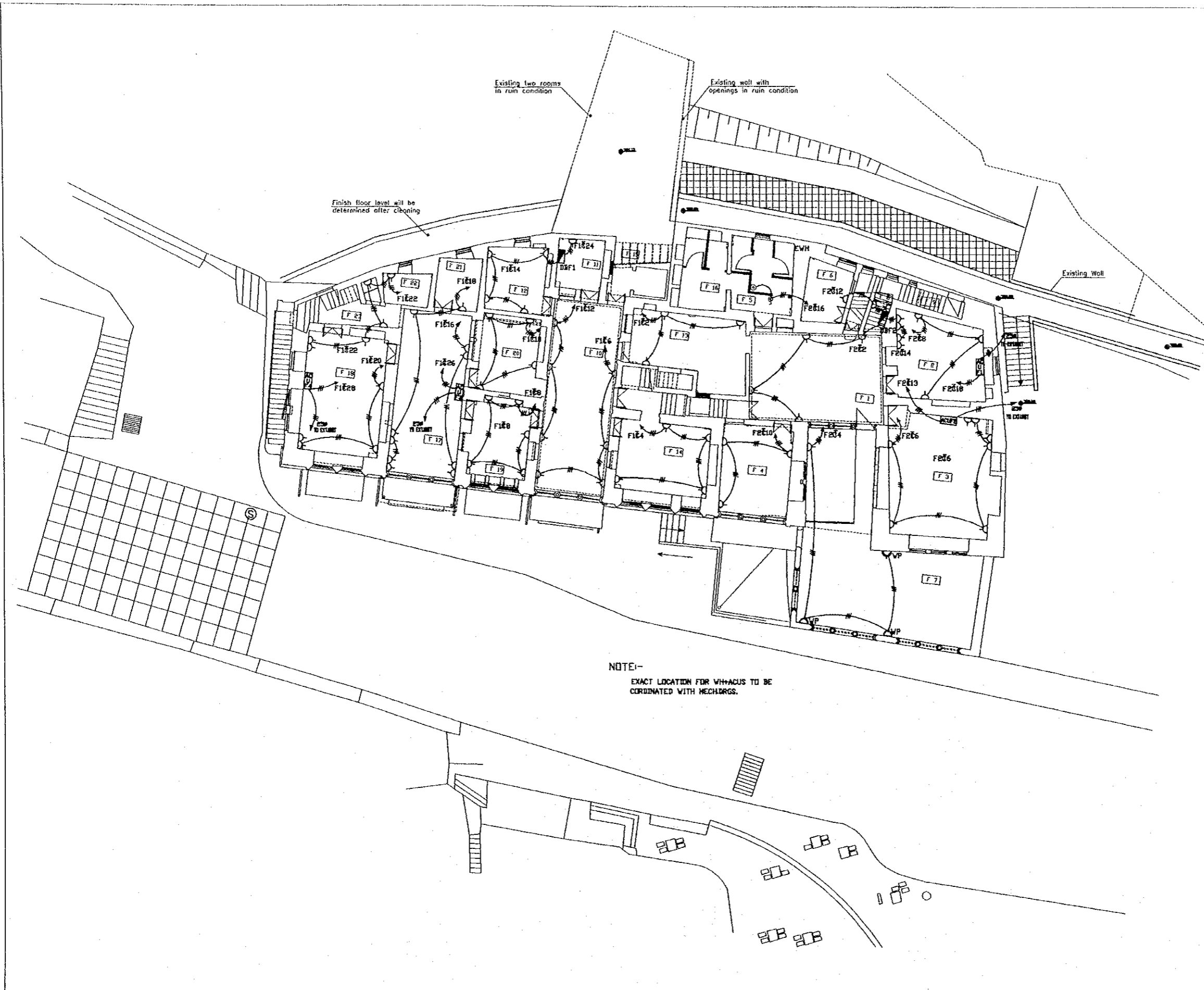
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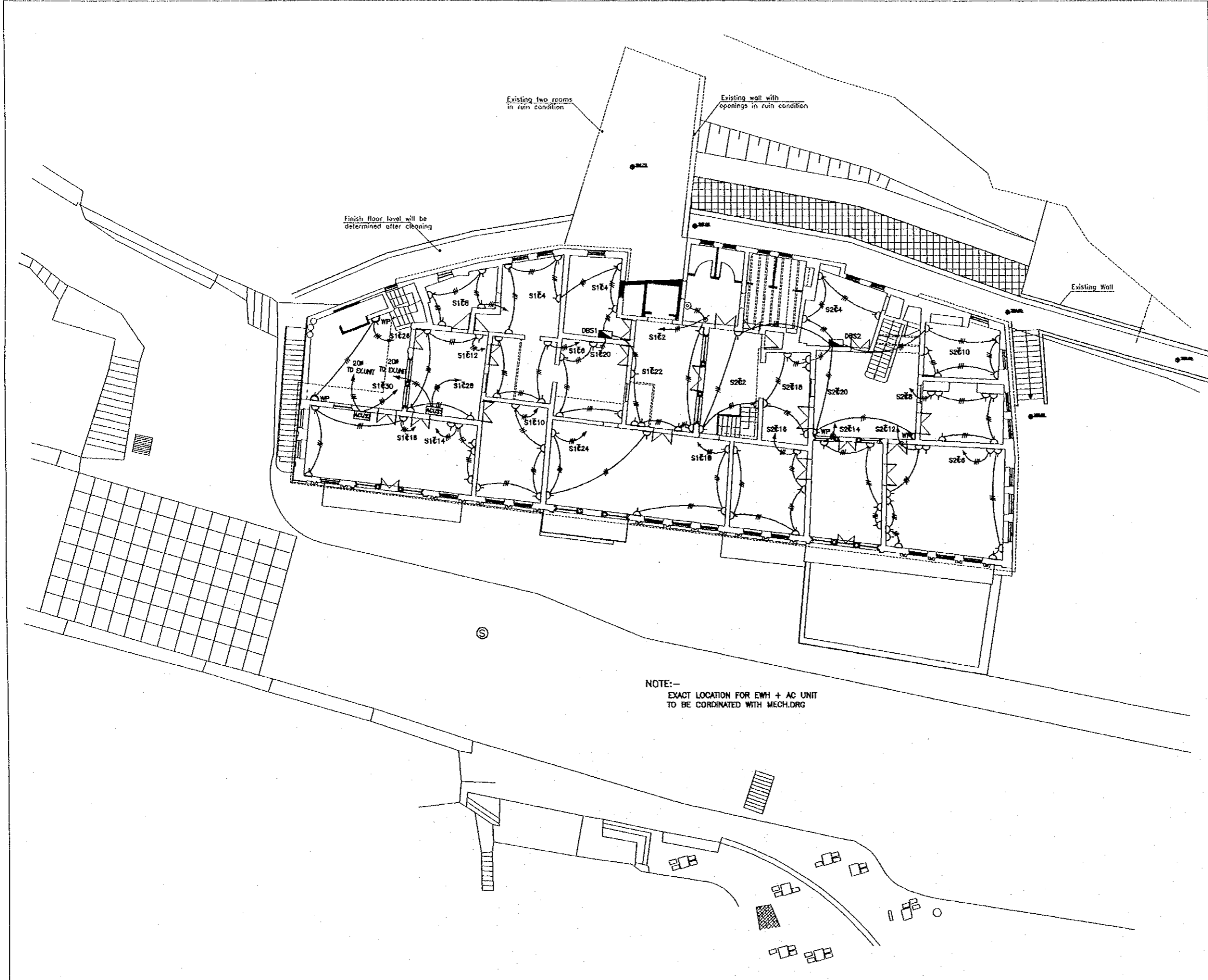

Historic House Museum Of
Abu Jaber

Drawing Title:
First Floor Power Layout

Scale: 1:100
Drawing No.: HHM.EL-007



NOTE:-
EXACT LOCATION FOR VITRACUS TO BE
COORDINATED WITH MECHDRGS.



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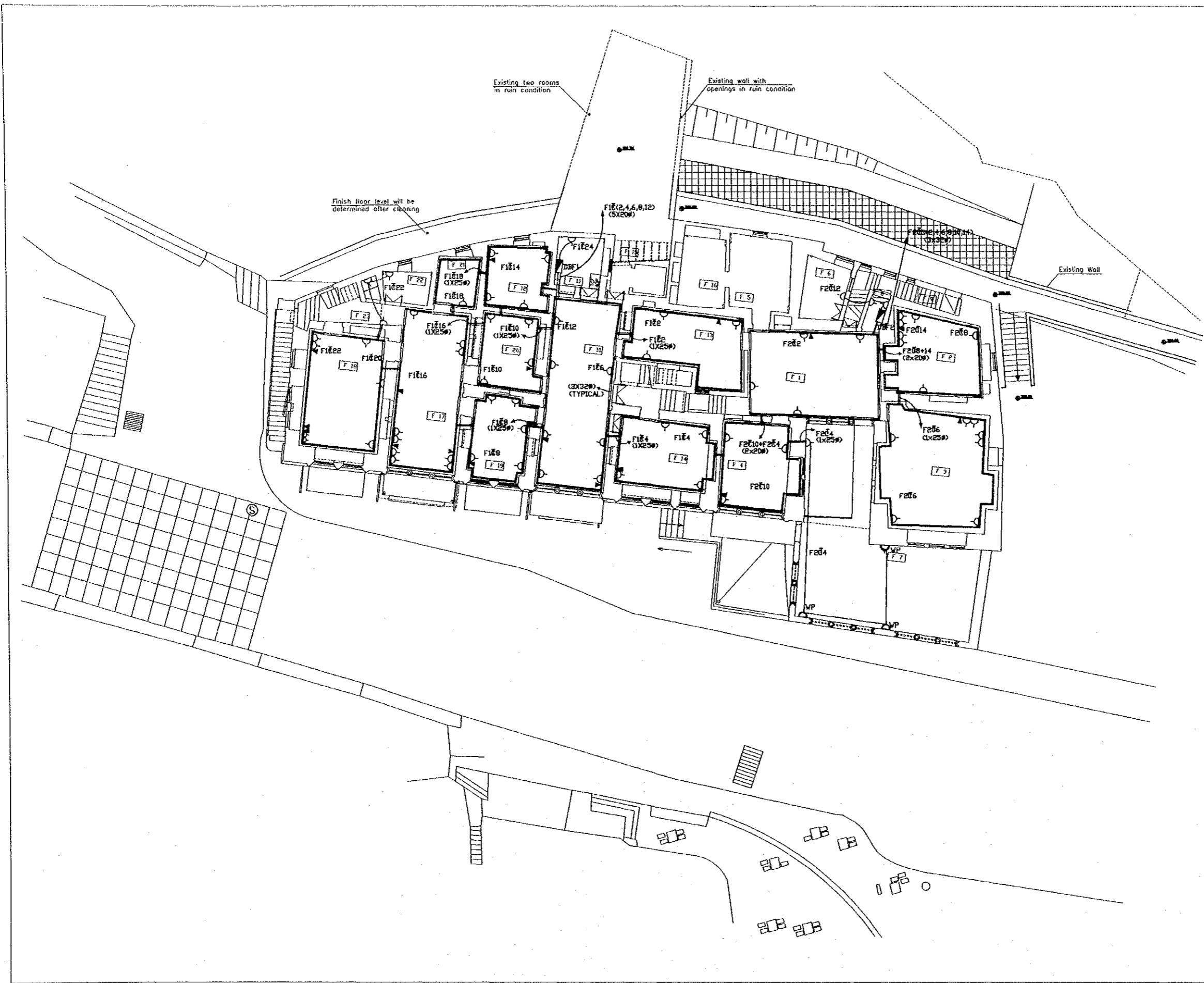
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Historic House Museum Of
Abu Jaber
Drawing Title:
Second Floor Power Layout

Scale: 1:100
Drawing No.: HHM.BL-008



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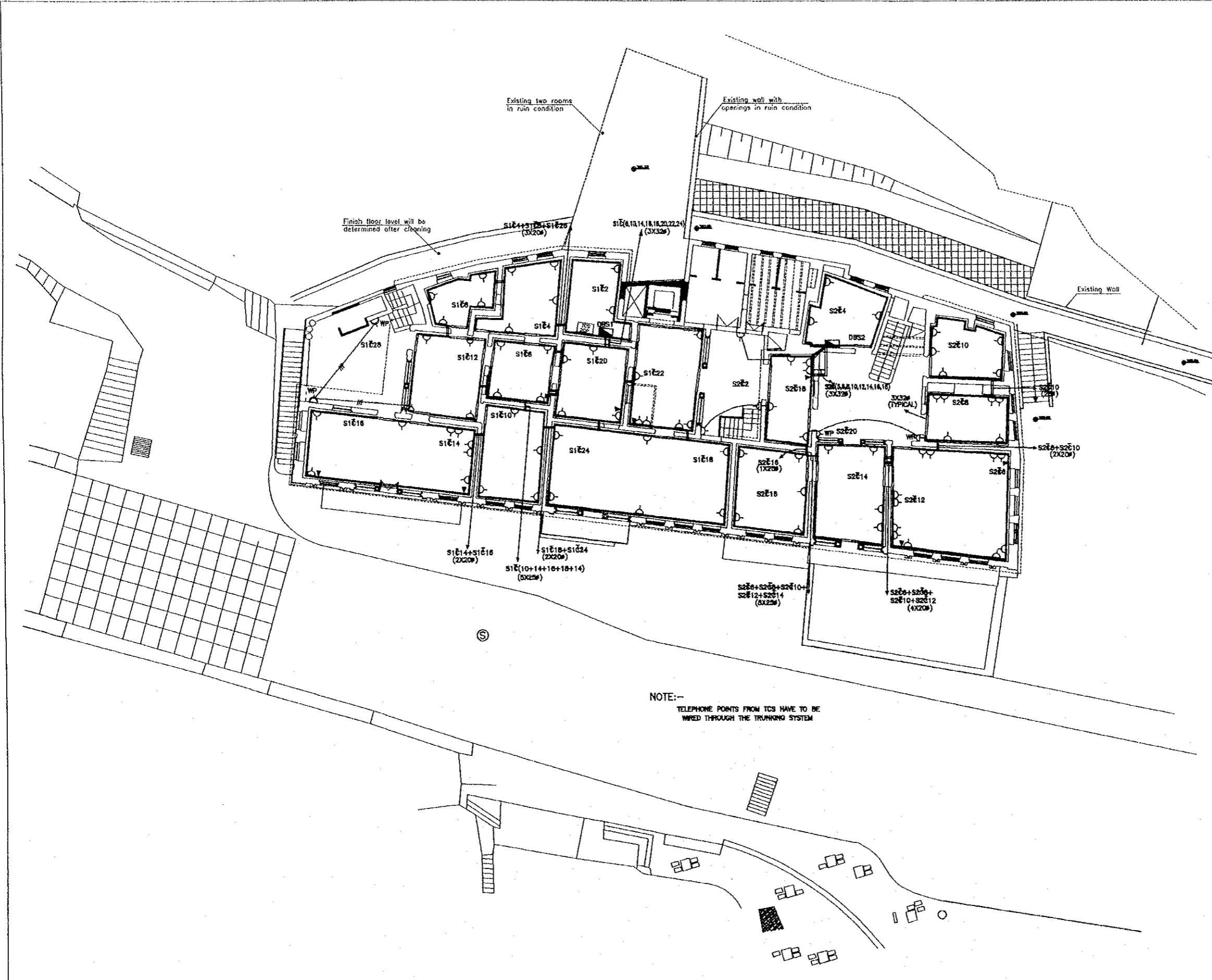
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Historic House Museum Of
Abu Jaber
Drawing Title:
First Floor Skirting Trunking Layout
and Circuit Routing Details

Scale: 1:100
Drawing No.: HHM/EL-009



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NOTE:-
TELEPHONE POINTS FROM TCS HAVE TO BE
WIRED THROUGH THE TRUNKING SYSTEM

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Historic House Museum of
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Drawing Title:
Second Floor Skirting Trunking Layout
and Circuit Routing Details

Scale: 1:100
Drawing No.: HHM.EL-010

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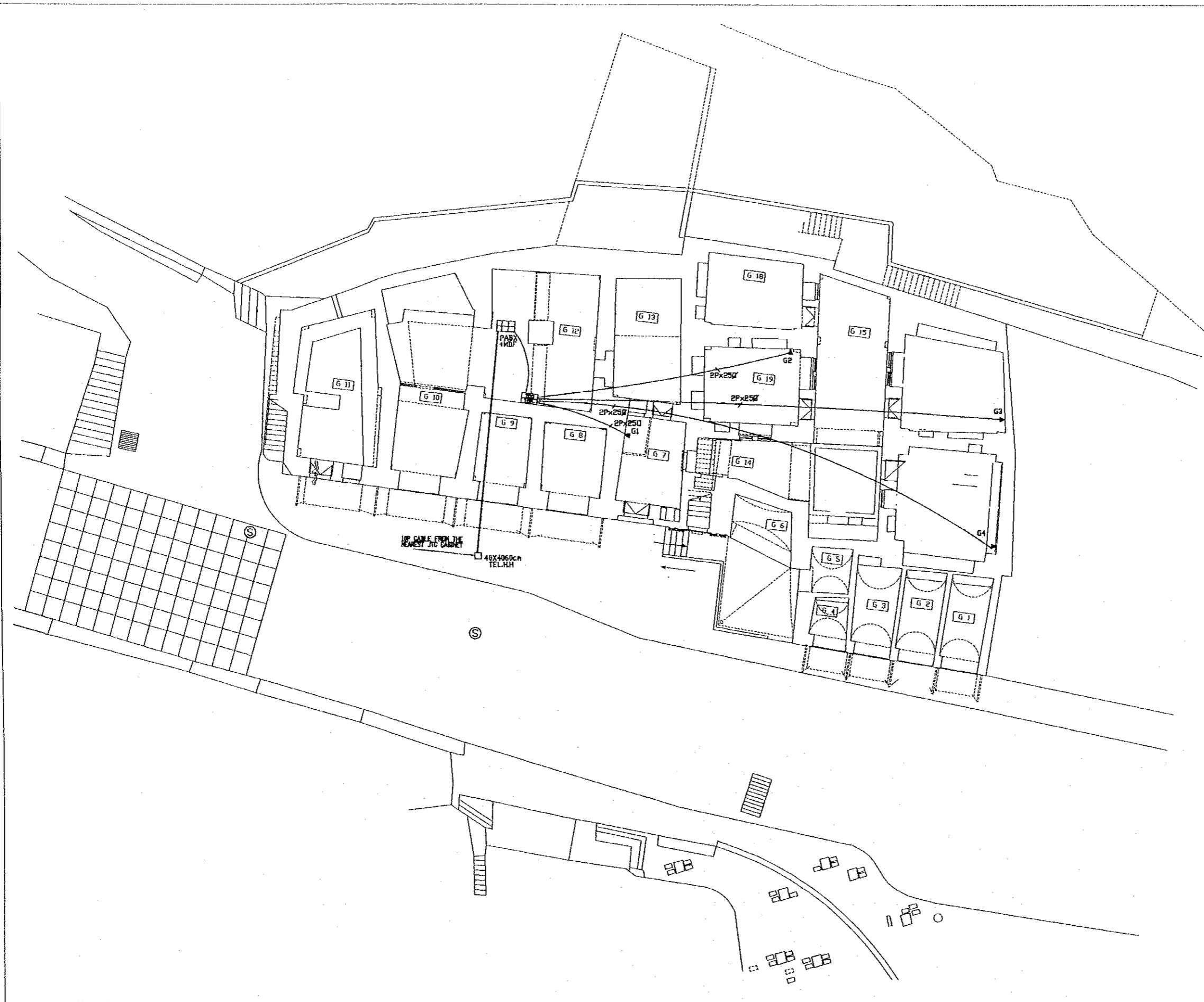
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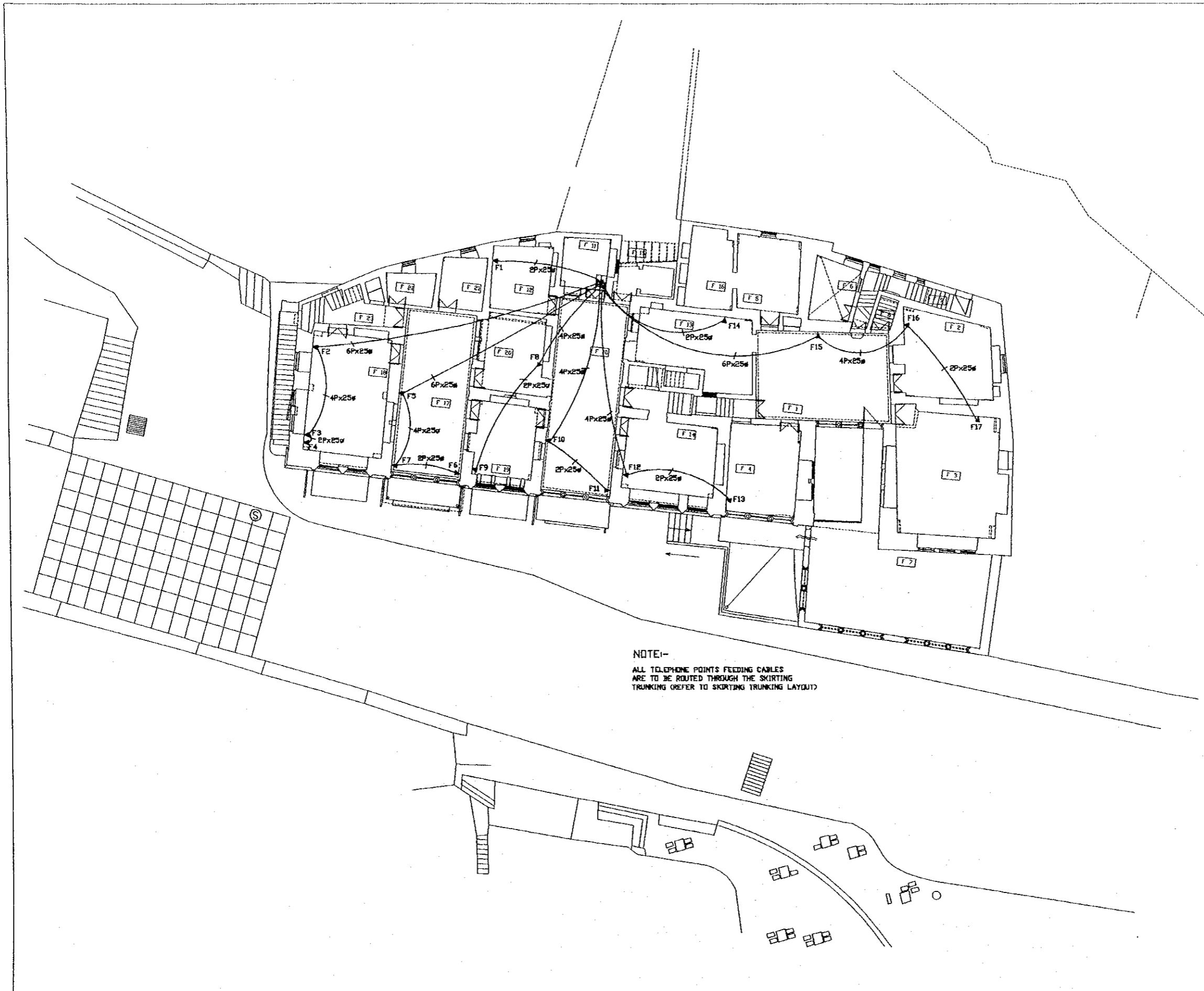
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Historic House Museum Of
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Drawing Title:
Ground Floor Tel. Layout

Scale: 1:100
Drawing No: HHM.EL-011





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Subcontracted Local Consultant:
TIBAH Consultants
Architects, Engineers

Historic House Museum Of
Abu Jaber

Drawing Title:
First Floor TEL LAYOUT

Scale: 1:100
Drawing No.: HHM.EL-012

Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

The Government of
the Hashemite Kingdom of Jordan
The Ministry of Tourism and Antiquities
The Ministry of Planning

Sub-Project:
Historic Old Salt Development
Historic Old Salt Museum
(Historic House Museum of Abu Jaber)

Note:
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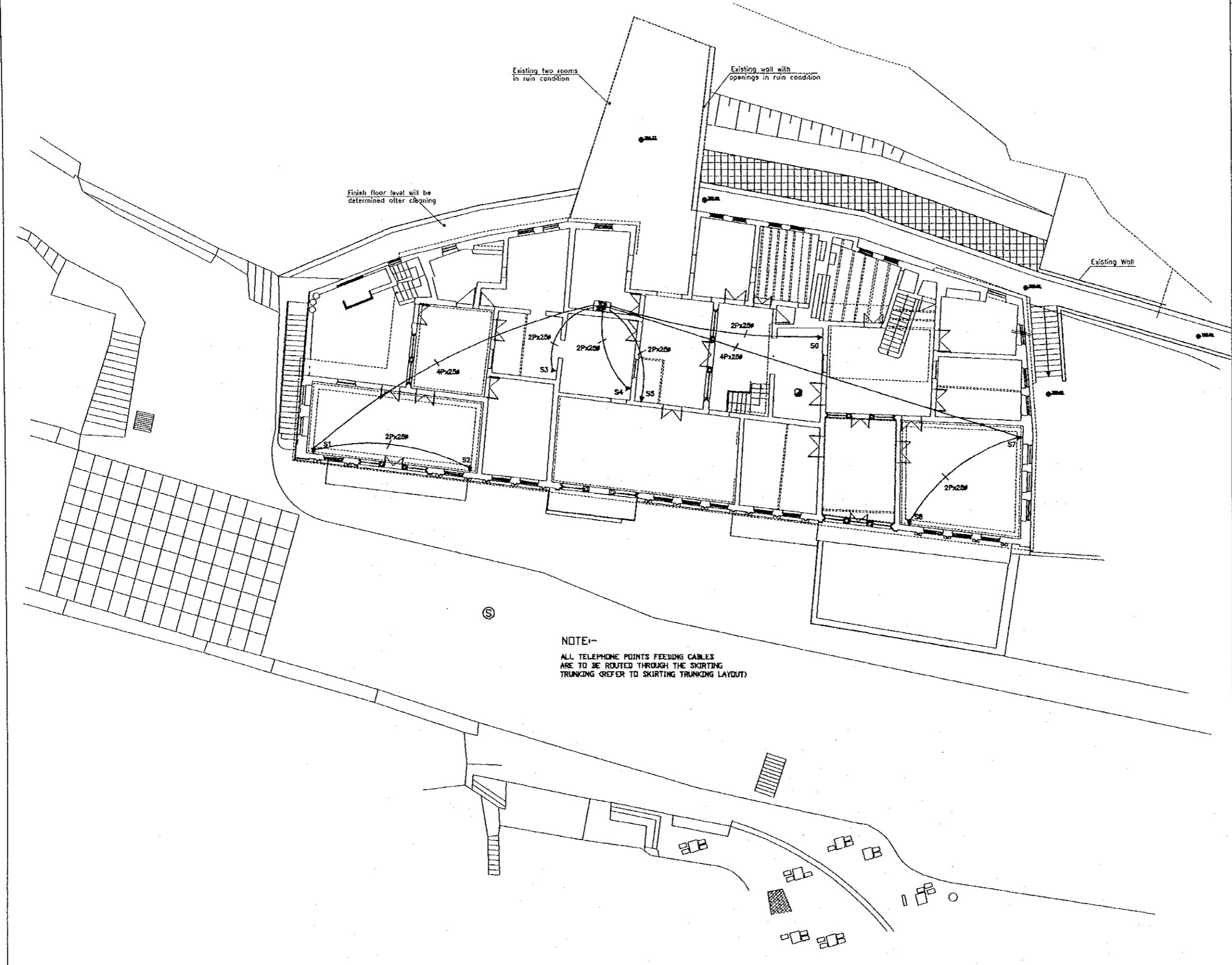
JICA Study Team:
Joint Venture of
Pacific Consultants International and
Yamashita Sekkei Inc.

Subcontracted Local Consultant:
TIBAH Consultants
Architects, Engineers

Historic House Museum Of
Abu Jaber

Drawing Title:
Second Floor Tel. Layout

Scale: 1:100 Drawing No.: HHIM.EL-013



Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

The Government of
the Hashemite Kingdom of Jordan
The Ministry of Tourism and Antiquities
The Ministry of Planning

Sub-Project:
Historic Old Sall Development
Historic Old Sall Museum
(Historic House Museum of Abu Jaber)

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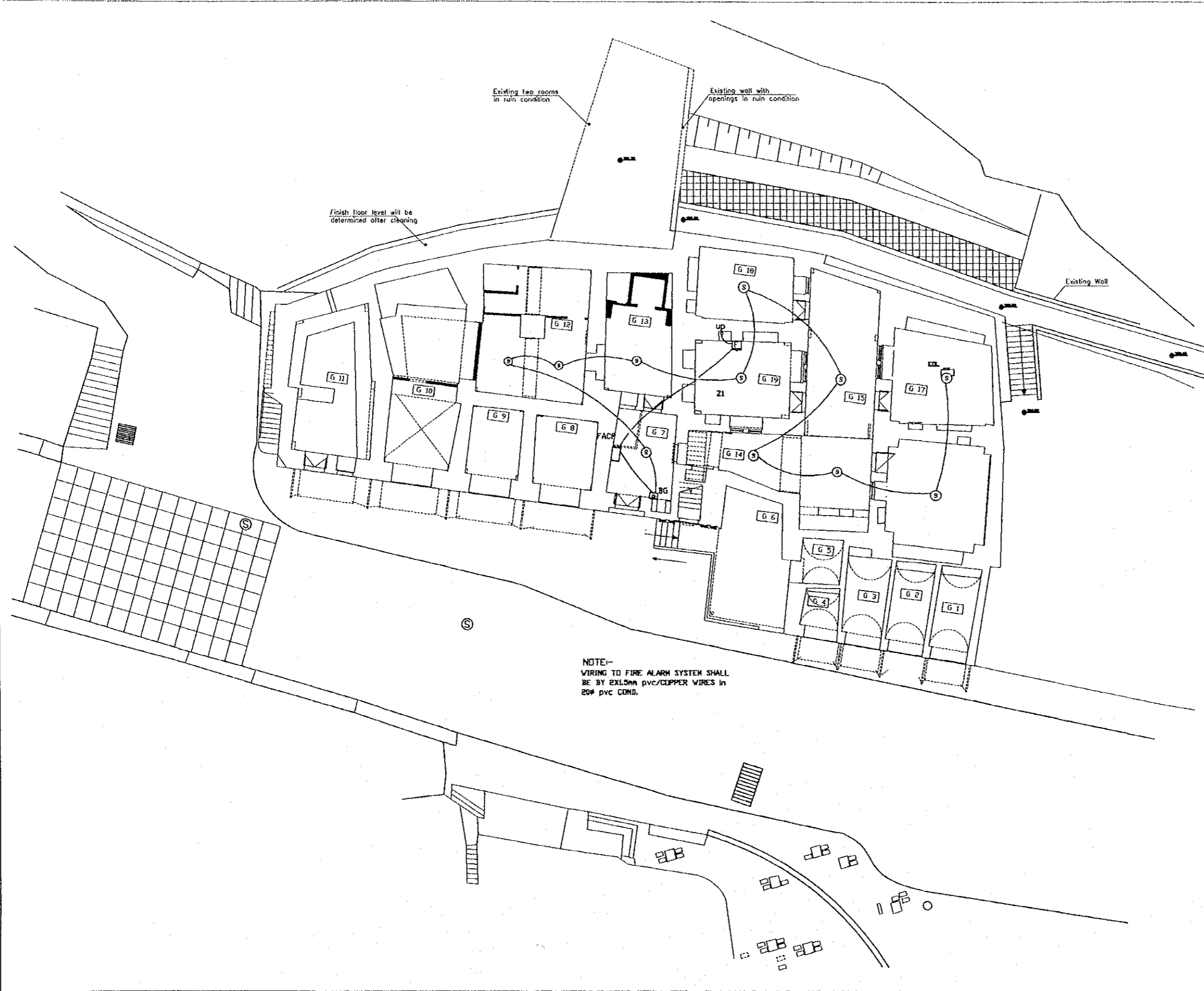
Subcontracted Local Consultant:
TBAH Consultants
Architects, Engineers

Historic House Museum Of
Abu Jaber

Drawing Title:
Ground Floor Fire Alarm
Layout

Scale:
1:100

Drawing No:
HHM.EL-014



Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

The Government of
the Hashemite Kingdom of Jordan
The Ministry of Tourism and Antiquities
The Ministry of Planning

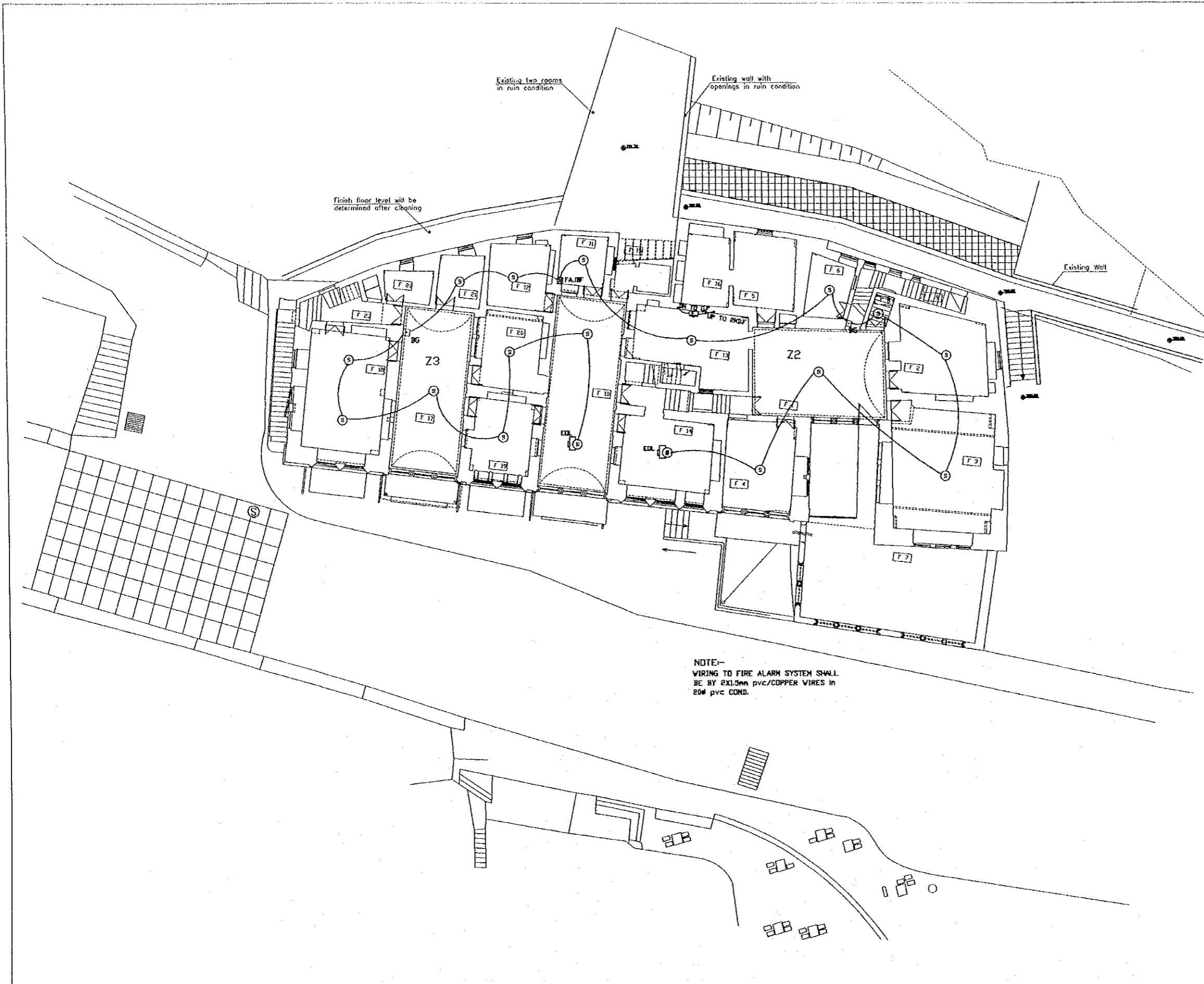
Sub-Project:
Historic Old Salt Development
Historic Old Salt Museum
(Historic House Museum of Abu Jaber)

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JICA Study Team:
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Yamata Sekkei Inc.
Subcontracted Local Consultant:
TIBAH Consultants
Architects, Engineers

Historic House Museum Of
Abu Jaber
Drawing Title:
First Floor Fire Alarm
Layout

Scale: 1:100
Drawing No: HHM.BL-015



Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

The Government of
the Hashemite Kingdom of Jordan
The Ministry of Tourism and Antiquities
The Ministry of Planning

Sub-Project:
Historic Old Salt Development
Historic Old Salt Museum
(Historic House Museum of Abu Jaber)

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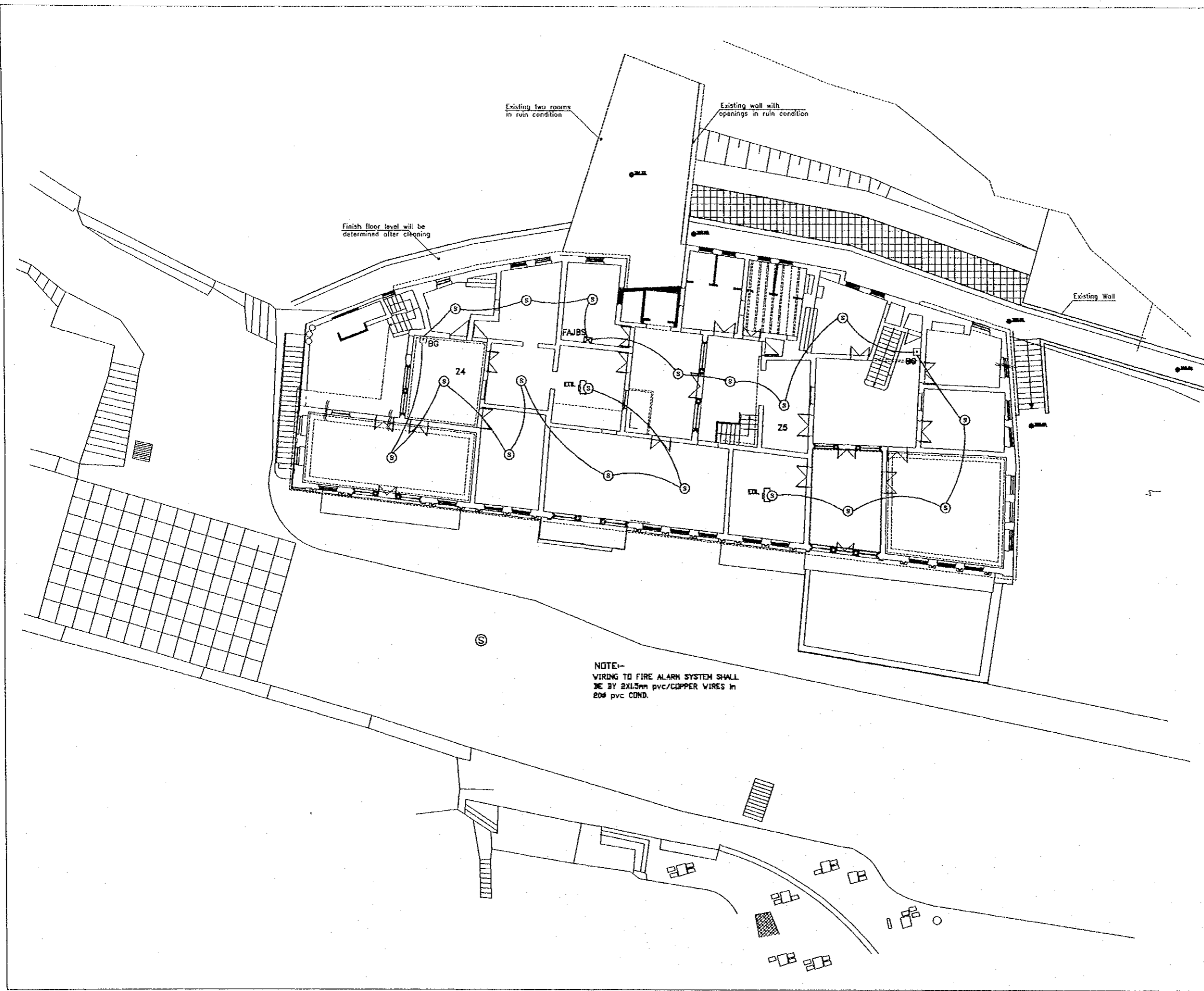
JICA Study Team:
Joint Venture of
Pacific Consultants International and
Yamashita Sekkei Inc.

Subcontracted Local Consultant:
TIBAH Consultants
Architects, Engineers

Historic House Museum Of
Abu Jaber

Drawing Title:
Second Floor Fire Alarm
Layout

Scale: 1:100 Drawing No.: HHM.BL-016



Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

The Government of
the Hashemite Kingdom of Jordan
The Ministry of Tourism and Antiquities
The Ministry of Planning

Sub-Project:
Historic Old Salt Development
Historic Old Salt Museum
(Historic House Museum of Abu Jaber)

Note:
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DB REFERENCE: DB6		LOCATION: GROUND FLOOR										VOLTAGE SYSTEM: 230/400V/50HZ/4W										FED. FROM: MDB									
CIRCUIT NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	MAIN
RATING AMPS	10	15	10	15	10	15	10	15	10	15	10	15	10	15	10	15	10	15	10	15	20	15	10	15	10	15	10	15	10	15	60A, 30MA ELCB
WIRE NOXSIZE	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X4	-	-	3X4	-	-	-	-	-	-	5X16mm ² pvc/pvc
COND. SIZE	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	-	-	20#	-	-	-	-	-	50# pvc/COND.
LOAD TYPE	LIGHT	S. SOCK	LIGHT	S. SOCK	LIGHT	S. SOCK	LIGHT	S. SOCK	LIGHT	S. + T.	LIGHT	S. + T.	LIGHT	S. + T.	LIGHT	S. SOCK	LIGHT	S. + T.	LIGHT	S. SOCK	WH	SP	SP	S. SOCK	SP	SP	SP	SP	SP	3 SOCK TWIN WH LIGHT	
NO. OFF	7	3	5	4	9	5	3	4	3	1+1	5	3+1	3	2+1	3	2	1	2+1	5	1	1	-	-	4	-	-	-	-	-	32 4 1 44	
CONTROL	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	60A, 30MA TPN ELCB
LOAD KV + LOCAL DIST.	-	-	-	-	0.9	1.0	-	-	-	-	0.7	0.9	-	-	-	-	0.7	0.6	-	-	-	-	-	0.8	-	-	-	-	-	-	B 5.6
	-	-	1.2	0.8	-	-	-	-	1.0	0.5	-	-	-	-	0.6	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Y 5.7
	.678	0.6	-	-	-	-	0.3	0.8	-	-	-	-	0.6	0.7	-	-	-	-	0.378	0.8	-	-	-	-	-	-	-	-	-	-	R 4.25
																															T 15.55

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TIBAH Consultants
Architects, Engineers

Historic House Museum of
Abu Jaber
Drawing Title:
DBS LOAD SCHEDULES

Scale: NTS Drawing No.: HHM.EL-017

Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

The Government of
the Hashemite Kingdom of Jordan
The Ministry of Tourism and Antiquities
The Ministry of Planning

Sub-Project:
Historic Old Salt Development
Historic Old Salt Museum
(Historic House Museum of Abu Jaber)

Note:
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DB REFERENCE: DBF1 LOCATION: FIRST FLOOR VOLTAGE SYSTEM: 230/400V/50HZ/4W FED. FROM: MDB

CIRCUIT NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	MAIN						
RATING AMPS	10	15	10	15	10	15	10	15	10	15	10	15	10	15	10	15	10	15	10	15	10	15	10	15	10	15	10	15	30	15	60A, 30MA ELCB						
WIRE NOXSIZE	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	-	3X4	-	3X4	-	5X16mm pvc/pvc							
COND. SIZE	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	-	25#	-	25#	-	50# pvc/COND.							
LOAD TYPE	LIGHT	S. SOCK.	LIGHT	S. SOCK.	LIGHT	S. SOCK.	LIGHT	S. SOCK.	LIGHT	S. SOCK.	LIGHT	S. SOCK.	LIGHT	S. SOCK.	LIGHT	T	LIGHT	S+T	LIGHT	S+T	LIGHT	S+T	LIGHT	S. SOCK.	sp.	AC UF3	sp.	sp.	sp.	AC UF4	sp.	3 SOCK	TWIN ACU	LIGHT			
NO. OFF	5	3	11	4	1	4	6	5	5	4	5	3	1	4	1	2	3	2+2	8	2+1	4	4+1	2	1	-	1	-	1	-	36	6	2	52				
CONTROL	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	-	BUILT IN	-	BUILT IN	-	60A, 30MA TPN ELCB							
LOAD KW + LOCAL DIST.	-	-	-	-	1.2	0.8	-	-	-	-	1.0	0.6	-	-	-	-	0.066	1.0	-	-	-	-	0.4	1.1	-	-	-	-	-	-	-	-	-	-	-	7.982	
	0.9	0.6	-	-	-	-	1.0	1.0	-	-	-	-	0.3	0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.03	
	-	-	1.03	0.8	-	-	-	-	1.0	0.8	-	-	-	-	1.3	0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.9	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.912

DB REFERENCE: DBF2 LOCATION: 1ST. FLOOR VOLTAGE SYSTEM: 230/400V/50HZ/4W FED. FROM: MDB

CIRCUIT NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	MAIN																		
RATING AMPS	10	15	10	15	10	15	10	15	10	15	10	15	30	15	10	20	10	30	60A, 30MA ELCB																		
WIRE NOXSIZE	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X4	3X4	3X2.5	3X4	-	3X4	5X16mm pvc/pvc																		
COND. SIZE	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	25#	20#	20#	20#	-	25#	50# pvc/COND.																		
LOAD TYPE	LIGHT	S. SOCK.	LIGHT	S. SOCK.	LIGHT	S+T	LIGHT	S. SOCK.	LIGHT	S. SOCK.	LIGHT	S. SOCK.	ACU F2	T	LIGHT	WH	-	ACU F1	1GSPS ACU	WH	LIGHT																
NO. OFF	7	4	11	4	9	3+2	5	2	3	3	14	3	1	2	6	1	-	1	19	4	2	1	55														
CONTROL	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	BUILT IN	BUILT IN	LOCAL SV.	LOCAL SV.	-	BUILT IN	60A, 30MA TPN ELCB																		
LOAD KW + LOCAL DIST.	-	-	-	-	1.5	1.2	-	-	-	-	0.51	0.6	-	-	-	-	-	1.8	3	5.61																	
	-	-	-	-	-	-	-	-	0.8	0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.91	
	1.1	0.8	-	-	-	-	-	0.9	0.4	-	-	-	-	1.8	0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.6
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.12

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Subcontracted Local Consultant:

TIBAH Consultants
Architects, Engineers

Historic House Museum of
Abu Jaber

Drawing Title:
DBS LOAD SCHEDULES

Scale: NTS Drawing No: HHM.EL-018

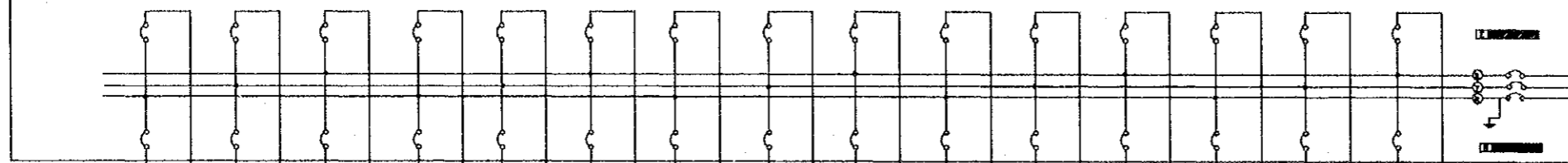
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

The Government of
the Hashemite Kingdom of Jordan
The Ministry of Tourism and Antiquities
The Ministry of Planning

Sub-Project:
Historic Old Salt Development
Historic Old Salt Museum
(Historic House Museum of Abu Jaber)

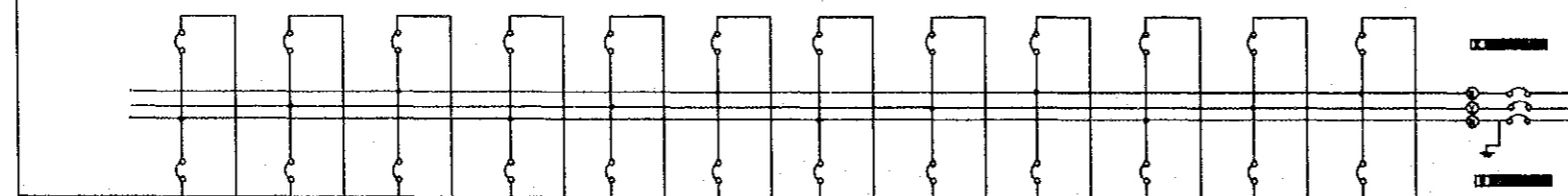
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DB REFERENCE: DBS1 LOCATION: SECOND FLOOR VOLTAGE SYSTEM: 230/400V/50HZ/4W FED. FROM: MDB



CIRCUIT NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	MAIN						
RATING AMPS	10	20	10	15	10	15	10	15	10	15	10	15	10	15	10	15	10	15	10	15	10	15	10	15	10	15	10	15	10	30	60A, 30MA ELCB						
WIRE NOXSIZE	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X4	5X16mm ² pvc/pvc							
COND. SIZE	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	25#	25#	50# pvc/COND.							
LOAD TYPE	LIGHT	WH	LIGHT	S. SOCK	LIGHT	S. SOCK	LIGHT	S. SOCK	LIGHT	S. SOCK	LIGHT	S. SOCK	LIGHT	S+T	SP	S. SOCK	SP	S. SOCK	LIGHT	S. SOCK	LIGHT	S. SOCK	LIGHT	S. SOCK	LIGHT	S. SOCK	WP. SOC	sp	ACU	ACU	IGSS2GSACU WH Light						
NO. OFF	2	1	4	6	5	4	1	4	5	4	4	4	10	1+2	-	3	-	3	6	4	7	5	1	3	6	2	-	1	-	1	43	2	2	1	64		
CONTROL	LOCAL SV.	ROAD P SV.	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	60A, 30MA TPN ELCB						
LOAD KW + LOCAL DIST.	-	-	-	-	0.7	0.8	-	-	-	-	0.6	0.8	-	-	-	-	-	-	0.6	-	-	-	-	-	1.3	0.6	-	-	-	-	1.8	-	-	B	6.9		
	-	-	0.45	1.2	-	-	-	-	0.5	0.8	-	-	-	-	-	0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Y	7.55		
	1.44	1.5	-	-	-	-	0.11	0.8	-	-	-	-	1.6	0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	R	7.27	
																																				T	21.72

DB REFERENCE: DBS2 LOCATION: SECOND FLOOR VOLTAGE SYSTEM: 230/400V/50HZ/4W FED. FROM: MDB

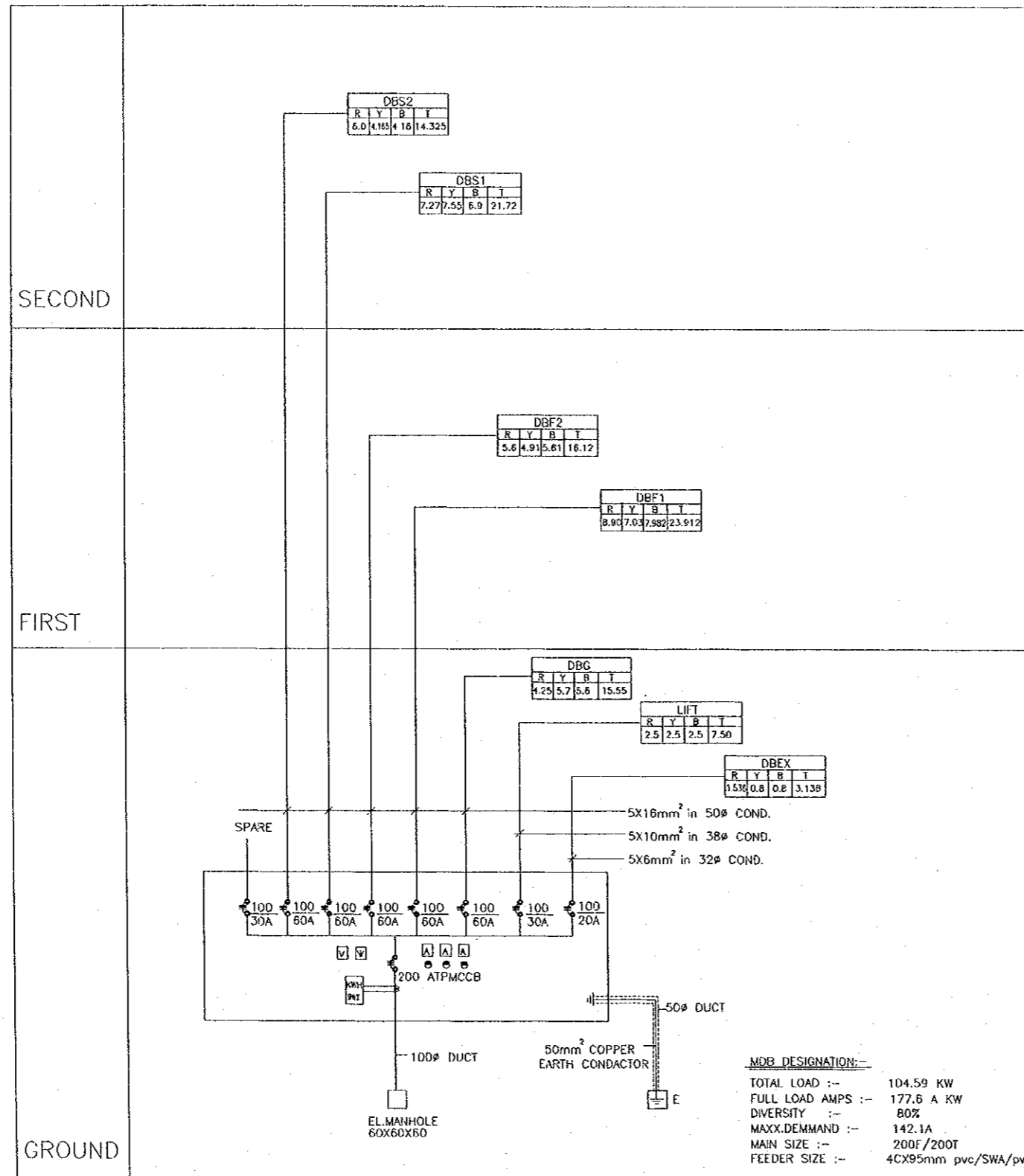


CIRCUIT NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MAIN												
RATING AMPS	10	15	10	15	10	15	10	15	10	15	10	15	10	15	10	15	10	15	10	15	10	15	10	15	60A, 30MA ELCB												
WIRE NOXSIZE	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	3X2.5	3X4	5X16mm ² pvc/pvc												
COND. SIZE	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	20#	50# pvc/COND.												
LOAD TYPE	LIGHT	S. SOCK	LIGHT	S. SOCK	LIGHT	S+T	LIGHT	S+T	LIGHT	S. SOCK	LIGHT	S+T	LIGHT	S. SOCK	LIGHT	S. SOCK	LIGHT	S+T	LIGHT	S. SOCK	LIGHT	S. SOCK	LIGHT	S. SOCK	4.800TVIN EX/WH Light												
NO. OFF	7	3	10	3	3	2+1	5	2+2	5	5	6	1+3	2	4	3	5	3	3+1	4	2	4	-	-	-	28	7	-	52									
CONTROL	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	LOCAL SV.	BUILT IN	60A, 30MA TPN ELCB												
LOAD KW + LOCAL DIST.	-	-	-	-	0.36	0.7	-	-	-	-	0.6	1.1	-	-	-	-	0.5	0.9	-	-	-	-	-	-	B	4.16											
	-	-	0.11	0.6	-	-	-	-	0.7	1.0	-	-	-	-	0.6	1.0	-	-	-	-	-	-	-	-	0.135	-	-	-	-	-	-	-	-	Y	4.165		
	0.8	0.6	-	-	-	-	1.4	1.0	-	-	-	-	0.6	0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	R	6.0	
																																				T	14.325

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JICA Study Team:
Joint Venture of Pacific Consultants International and Yamashita Sekkei Inc.
Subcontracted Local Consultant:
TIBAH Consultants Architects, Engineers

Historic House Museum Of Abu Jaber
Drawing Title:
DBS LOAD SCHEDULES

Scale: NTS Drawing No: HBHM-EL-019



MAIN POWER RISER DIAGRAMM

Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

The Government of
the Hashemite Kingdom of Jordan
The Ministry of Tourism and Antiquities
The Ministry of Planning

Sub-Project:
Historic Old Salt Development
Historic Old Salt Museum
(Historic House Museum of Abu Jaber)

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Subcontracted Local Consultant:

TIBAH Consultants
Architects, Engineers

المهندسين المعماريين والمهندسين الكهربائيين



Historic House Museum Of
Abu Jaber

Drawing Title:

MAIN POWER RISER
Diagramm

Scale:
NTS

Drawing No.:
HHM.EL-020

Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

The Government of
the Hashemite Kingdom of Jordan
The Ministry of Tourism and Antiquities
The Ministry of Planning

Sub-Project:
Historic Old Salt Development
Historic Old Salt Museum
(Historic House Museum of Abu Jaber)

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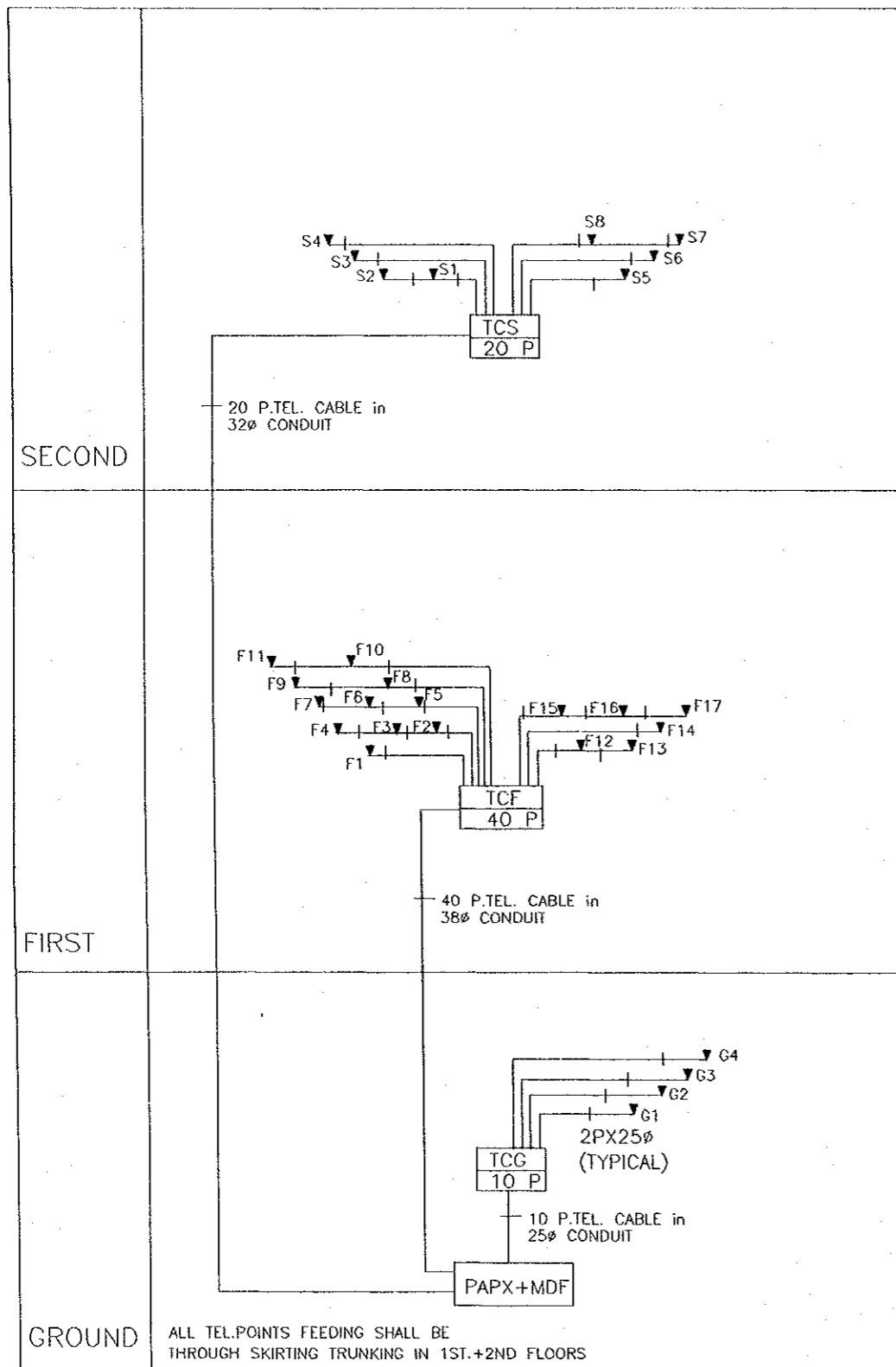
JICA Study Team:
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Subcontracted Local Consultant:
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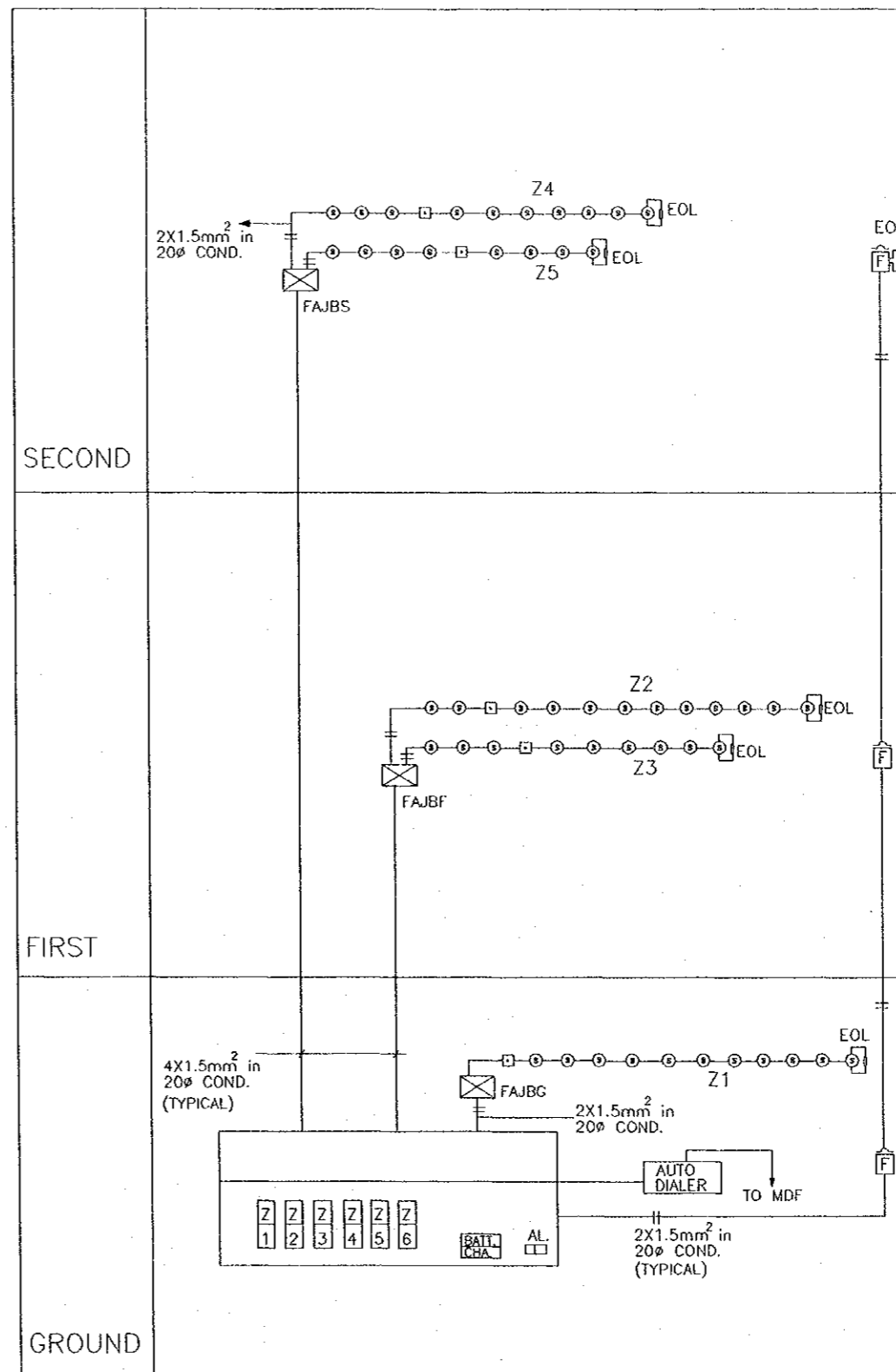
Historic House Museum Of
Abu Jaber

Drawing Title:
Tel. + Fire Alarm Riser
Diagramm

Scale: NTS Drawing No.: HIM.BL-021



MAIN TEL. RISER DIAGRAMM



FIRE ALARM RISER DIAGRAMM

GENERAL NOTE :-

IF THERE IS ANY DISCREPANCY BETWEEN THE FOLLOWING NOTES AND THE TECHNICAL SPECIFICATION, THE TECHNICAL SPECIFICATION SUPERSEDES THESE NOTES.

A- AIR CONDITIONING & HEATING VENTILATION :-

- 1- THESE MECHANICAL DRAWING SHALL BE USED FOR ALL AIR CONDITIONING, HEATING VENTILATING SYSTM PURPOSE ONLY .DO NOT SCALE FROM THESE DRAWING .
- 2- THESE MECHANICAL DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS OF DIFFERENT TRADES FOR CO-ORDINATION PURPOSE.
- 3- THE CONTRACTOR OR CONTRACTORS SHALL PROVIDE COMPLETE SHOP DRAWINGS PRIOR TO COMMENCING OF WORK .
- 4- ALL MECHANICAL EQUIPMENTS AND ITEM REGARDING TO HVAC WORKS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO ORDERING .
- 5- ALL INDICATING SIZES OF AIR OUTLETS (DIFFUSERS,REGISTERS, GRILLES) ARE THE ACTUAL NECK SIZES .
- 6- ALL REFRIGERANT SUCTION LINE SHALL BE COVERED WITH 1" ARMAFLEX INSULATION.
- 7- ALL REFRIGERANT SUCTION & LIQUID LINE EXPOSED ON ROOF SHALL HAVE AN ADDITIONAL 22 GAUGE ALUMINUM METAL COVER .
- 8- ALL A/C EQUIPMENT DRAIN TO BE CONNECTED TO NEAREST FLOOR DRAIN,UNLESS INDICATED OTHERWISE ON DRAWINGS .
- 9- ALL CHILLED HOT & COOLING TOWER PIPNG SHALL BE WELDED BLACK STEEL STANDAR WEIGHT WITH MALLEABLE WROUGHT IRON SCREWED FITTING FOR PIPES UP TO 2" IN DIAMETERAND WELDED FITTINGS FOR PIPES OVER 2" IN DIAMETER .
- 10- THE AUTOMATIC AIR VENT SHALL BE INSTALLED ON HIGHEST POINT OF SYSTEM INDIVIDUALLY ON EACH SEPERATE RISER .
- 11- ALL CONDENSATE DRAIN PIPING SHALL BE GALVANIZED STEEL WITH GALVANIZED SCREWED FITTINGS OR PVC TO BS4614 .
- 12- INSULATION OF HVAC PIPING SYSTEM SHALL BE AS PER TECHNICAL SPECIFICATION .
- 13- HEATING PIPE IN THE POHLER ROOM AND IN THE SHAFTS SHOULD BE BLACK STEEL PIPES & ALL PIPES UNDER TILE SHOULD BE PEX PIPE IN SLEEVES .

B- PLUMBING :-

- 1- THESE PLUMBING DRAWINGS SHALL BE USED FOR PLUMPING PURPOSE ONLY . DO NOT SCALE FROM THESE DRAWINGS .
- 2- THESE PLUMBING DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS OF DIFFERENT TRADES FOR CO-ORDINATION PURPOSE.
- 3- THE CONTRACTOR OR CONTRACTORS SHALL PROVIDE COMPLETE SHOP DRAWINGS PRIOR TO COMMENCING OF WORK .
- 4- ALL EQUIPMENTS & SANITARY FIXTURES AND ANY ITEM RELATED TO PLUMBING WORKS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO ORDERING .
- 5- ALL ABOVE GROUND DRAINAGE PIPE WORKS (RAIN WATER , SOIL, WASTE & VENT PIPES) SHALL BE SUBMITTED FOR APPROVAL PRIOR TO ORDERING .
- 6- ALL COLD & HOT WATER LINE S SHALL BE GALVANIZED IRON PIPES & PIX PIPES WITH SLEEVES .
- 7- ISOLATING GATE VALVE SHOULD BE PROVIDED IN EVERY INDIVIDUAL TOILETS BATH ROOM & KITCHEN .
- 8- ALL UNDER GROUND DRAINAGE PIPES CONNECTD TO MANHOLES , SEPTIC TANK PER COLATING PIT , SHALL BE UPVC TO BS 4660 AS MANUFACTURED BY MARLEY OR APPROVED EQUAL .
- 9- ALL DOMESTIC WATER PIPES SHALL BE INSULATED AS PER TECHNICAL SPECIFICATION .

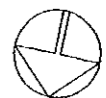
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
—S—	SOIL PIPE / WASTE PIPE	FD	FREE DISCHARGE
—RW—	RAIN WATER PIPE	M	MANHOLE
—OF—	OVER FLOW PIPE	HL	HIGH LEVEL
—V—	VENT PIPE	CL	COVERT LEVEL
—DCWS—	DOMESTIC COLD WATER SUPPLY	INLL	INLET LEVEL
—DHS—	DOMESTIC HOT WATER SUPPLY	OLL	OUTLET LEVEL
—DHR—	DOMESTIC HOT WATER RETURN	UT	UNDER TILE
—I—	IRRIGATION WATER	UG	UNDER GROUND
—TS—	TANK SUPPLY PIPE	US	UNDER SLABE
—FW—	POTABLE WATER PIPE	T.L.O.P	TOP LEVEL OF PIPE
—EXP—	EXPANSION LINE	B.L.O.P	BOTOM LEVEL OF PIPE
—HWS—	HEATING WATER SUPPLY PIPE	GLP	GALVANISED LINE PIPE
—HWR—	HEATING WATER RETURN PIPE	DRM	DROP MANHOLE
HB	HOSE BIB	WM	WATER METER
—FV—	FLOAT VALVE	WCO	WALL CLEAN OUT
—PEU—	PIPE ELBOW UP	FCO	FLOOR CLEAN OUT
—PTU—	PIPE TEE UP	BFS	BELOW FLOOR SLAB
—PED—	PIPE ELBOW DOWN	UG	UNDER GROUND
—PTD—	PIPE TEE DOWN	IN	IN WALL
—CIR—	CAST IRON RADIATOR	DN	DOWN
SS/SV	SOIL STACK / STACK VENT	□	MANHOLE
W	WASTE	B	BALCONY DRAIN
VS	VENT STACK	R	ROOF DRAIN
RW	RAIN WATER	F	FLOOR DRAIN
FD	FLOOR DRAIN	⊙	ROOF VENT CAP
RD/RD	ROOF DRAIN / BALCONY DRAIN	⊖	CLAENOUT FOR UNBURRIED PIPES
RVC	ROOF VENT CAP	FR	PIRE HOSE REEL CABINETES

Tourism Sector Development Project
In the Hashemite Kingdom of Jordan

The Government of
the Hashemite Kingdom of Jordan
The Ministry of Tourism and Antiquities
The Ministry of Planning

Sub-Project:
Historic Old Salt Development
Historic Old Salt Museum
(Historic House Museum of Abu Jaber)

Note:
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F.D : FLOOR DRAIN
C.O : CLEANOUT
V&D : VENT & DRAIN
MAN : MANHOLE



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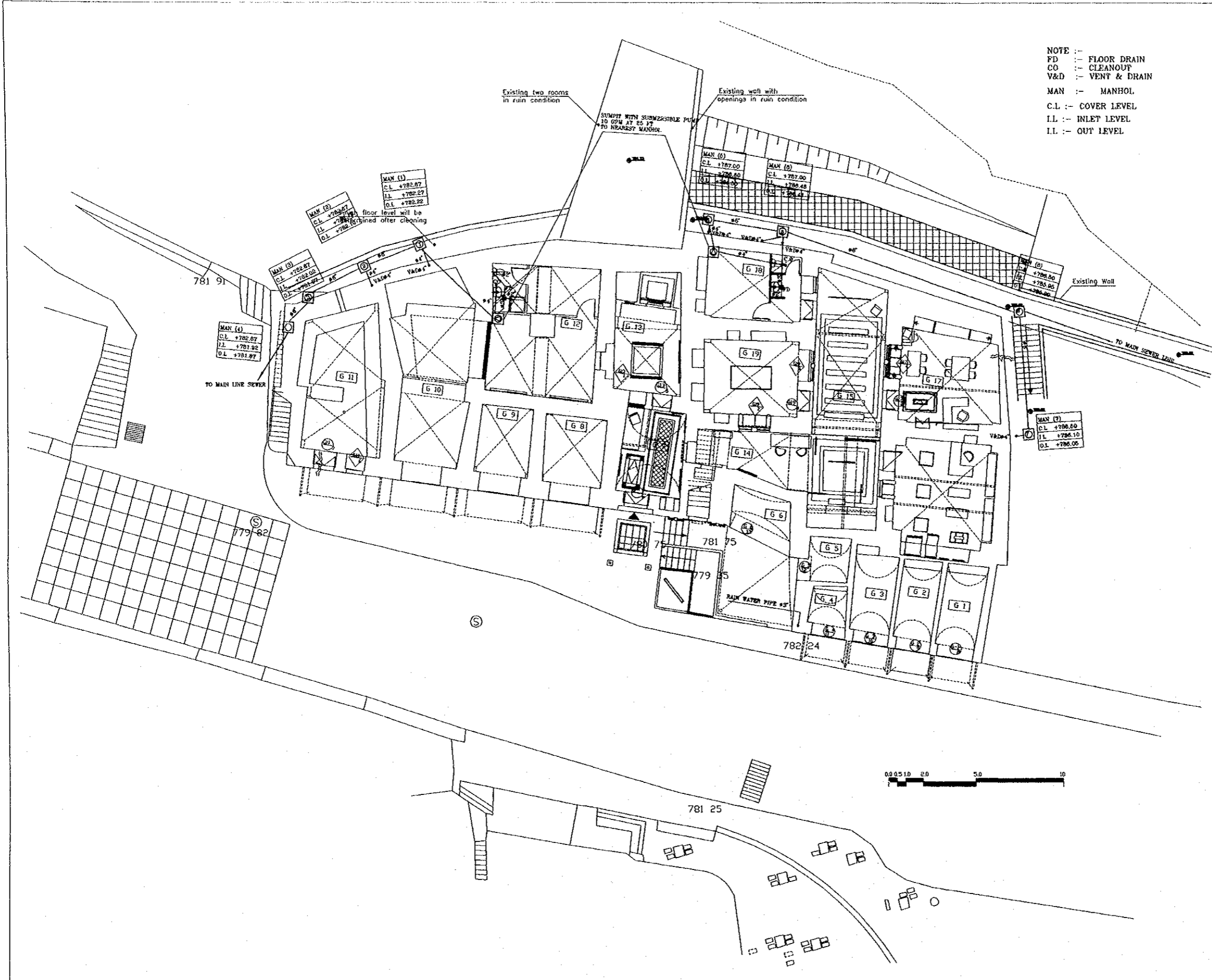
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Subcontracted Local Consultant:

TIBAH Consultants
Architects, Engineers
مهندسين معماريين ومهندسين ميكانيكيين

Historic Old Salt Museum
Drawing Title:
GENERAL NOTES & LEGENDS

Scale: Drawing No.:
HHM.M-00



NOTE :-
 FD :- FLOOR DRAIN
 CO :- CLEANOUT
 V&D :- VENT & DRAIN
 MAN :- MANHOLE
 C.L :- COVER LEVEL
 I.L :- INLET LEVEL
 O.L :- OUT LEVEL

Tourism Sector Development Project
 in the Hashemite Kingdom of Jordan

The Government of
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 The Ministry of Tourism and Antiquities
 The Ministry of Planning

Sub-Project:
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Historic Old Salt Museum
 Drawing Title:
 GROUND FLOOR
 DRAINAGE LAYOUT

Scale: 1:100
 Drawing No.: HHM.M-01

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in the Hashemite Kingdom of Jordan

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The Ministry of Tourism and Antiquities
The Ministry of Planning

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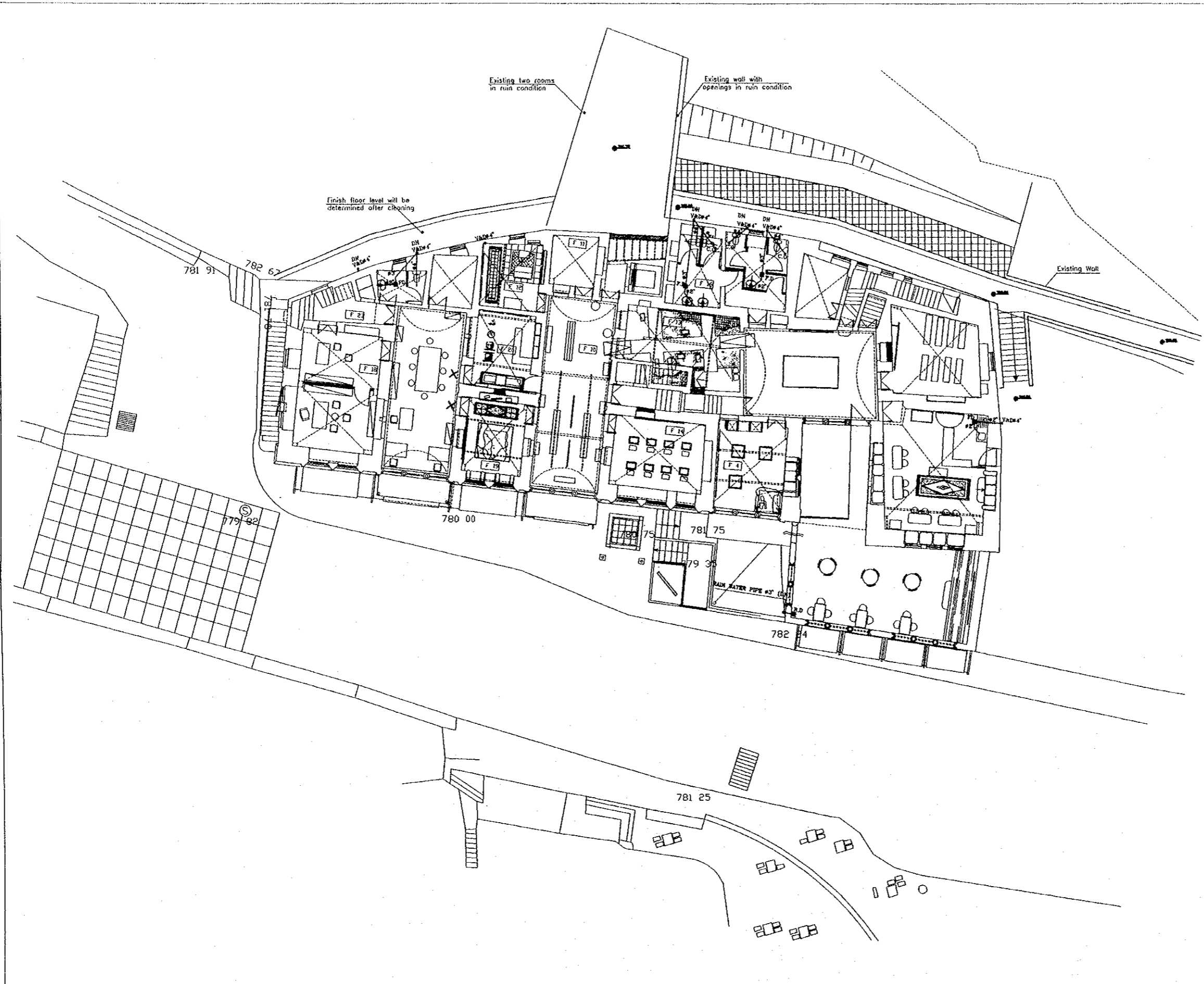
F.D. : FLOOR DRAIN
C.O. : CLEANOUT
V&D : VENT & DRAIN
R.D. : RAIN DRAIN



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Historic Old Salt Museum
Drawing Title:
First Floor
Drainage Layout

Scale: 1:100
Drawing No.: HHM.M-02



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The Ministry of Planning

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F.D : FLOOR DRAIN
C.O : CLEANOUT
V&D : VENT & DRAIN

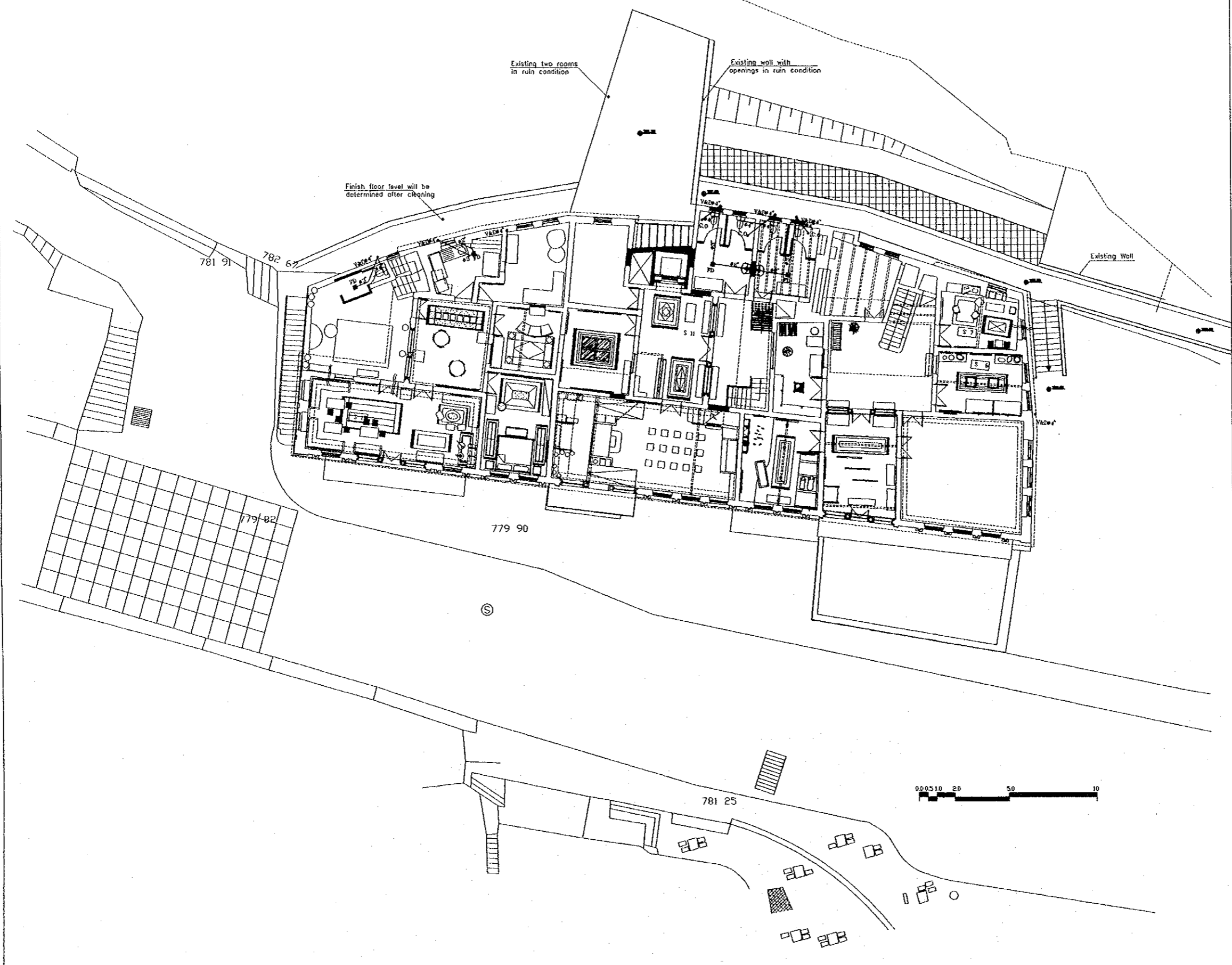
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Subcontracted Local Consultant:
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Historic Old Salt Museum
Drawing Title:
SECOND FLOOR
DRAINAGE LAYOUT

Scale: 1:100
Drawing No.: HHM.M-03

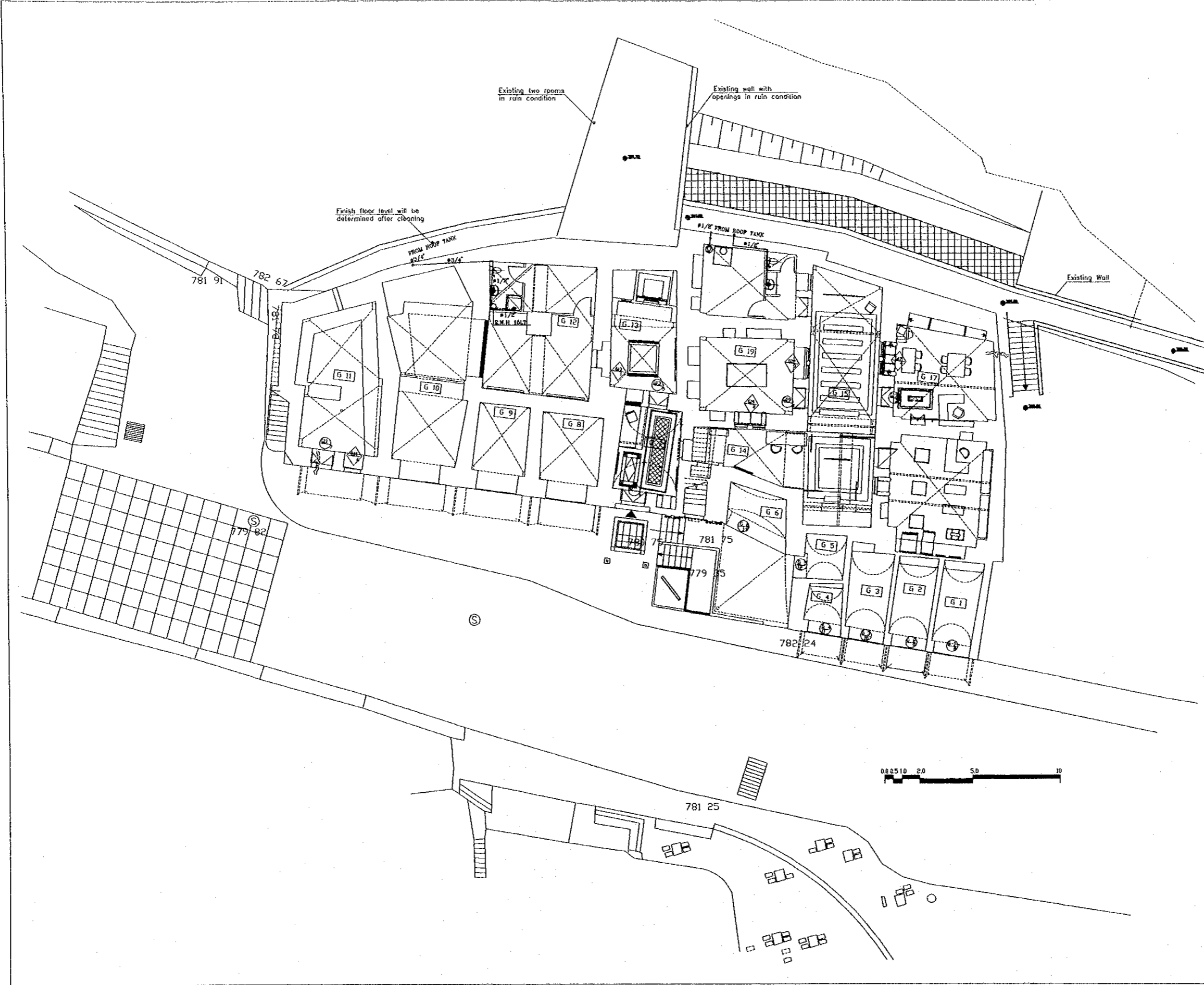


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The Ministry of Planning

Sub-Project:
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Historic Old Salt Museum
Drawing Title:
GROUND FLOOR
COLD & HOT WATER

Scale: 1:100
Drawing No.: HHM-M-04

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The Ministry of Planning

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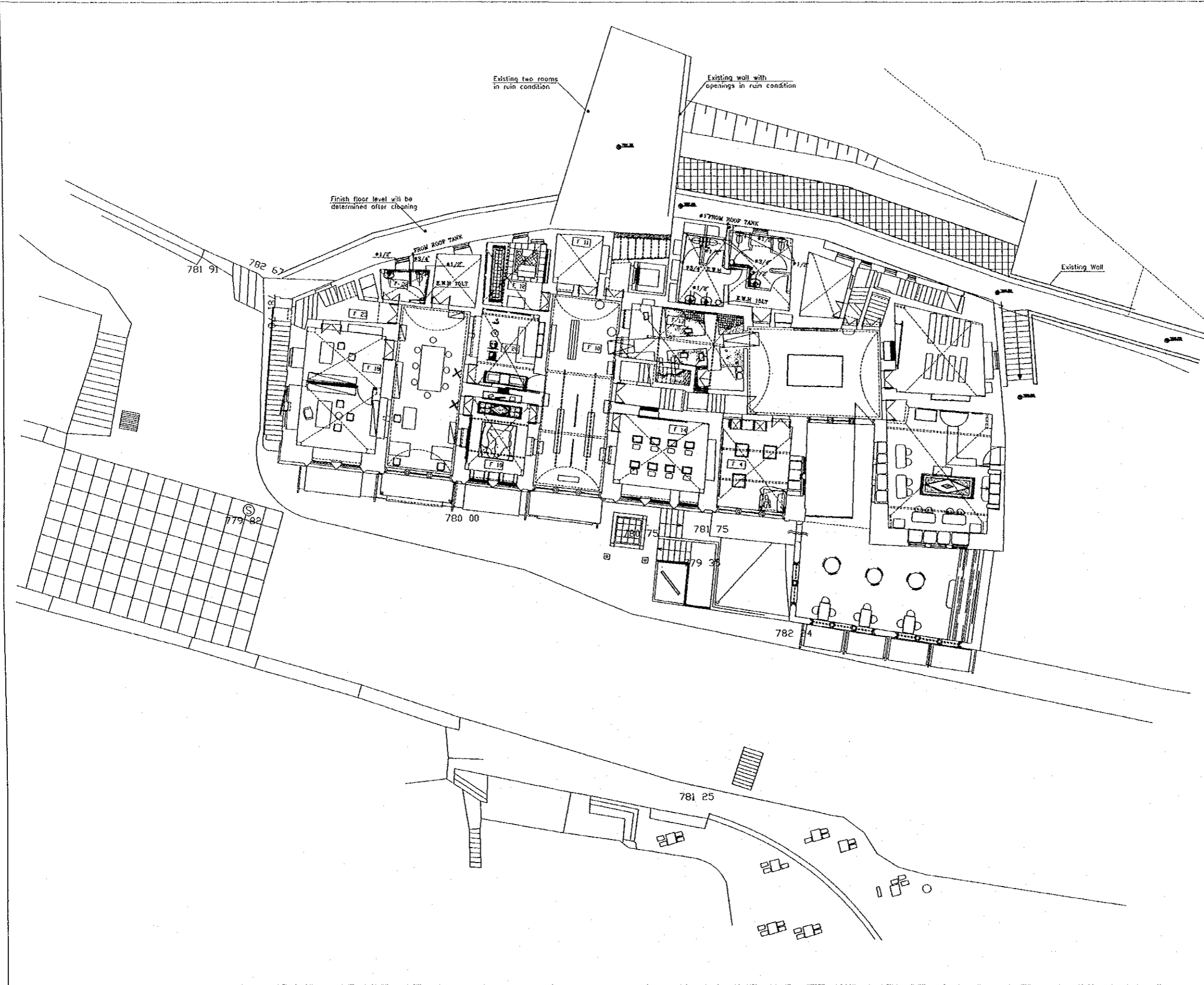
E.W.H : ELECTRIC WATER HEATER



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Architects, Engineers

Historic Old Salt Museum
Drawing Title:
First Floor
COLD & HOT WATER

Scale:
1:100
Drawing No.:
HIM-M-05

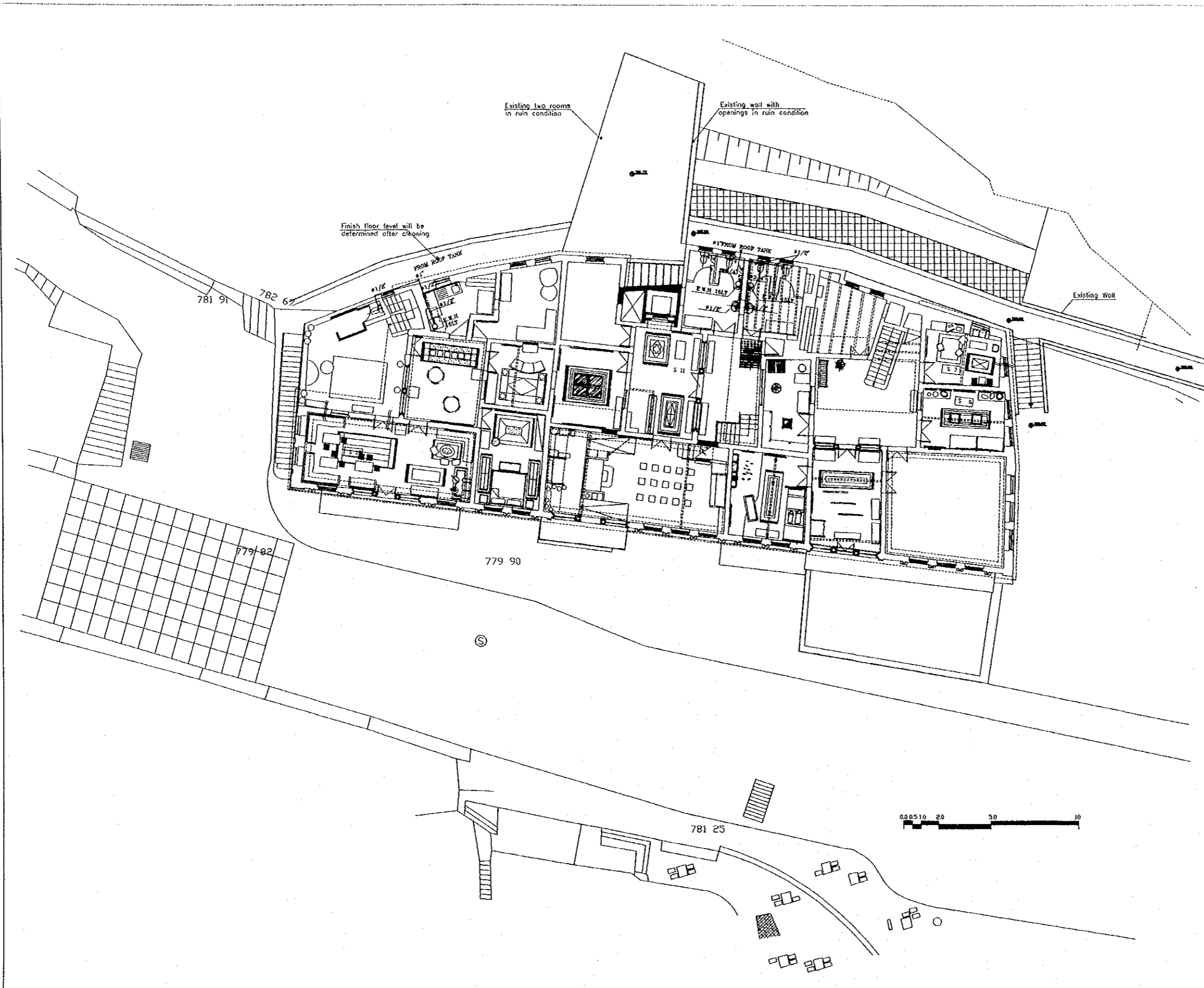


Tourism Sector Development Project
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The Ministry of Tourism and Antiquities
The Ministry of Planning

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E.W.H : ELECTRIC WATER HEATER



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Historic Old Salt Museum
Drawing Title:
SECOND FLOOR
COLD & HOT WATER

Scale: 1:100
Drawing No.: HHM-M06

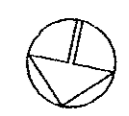
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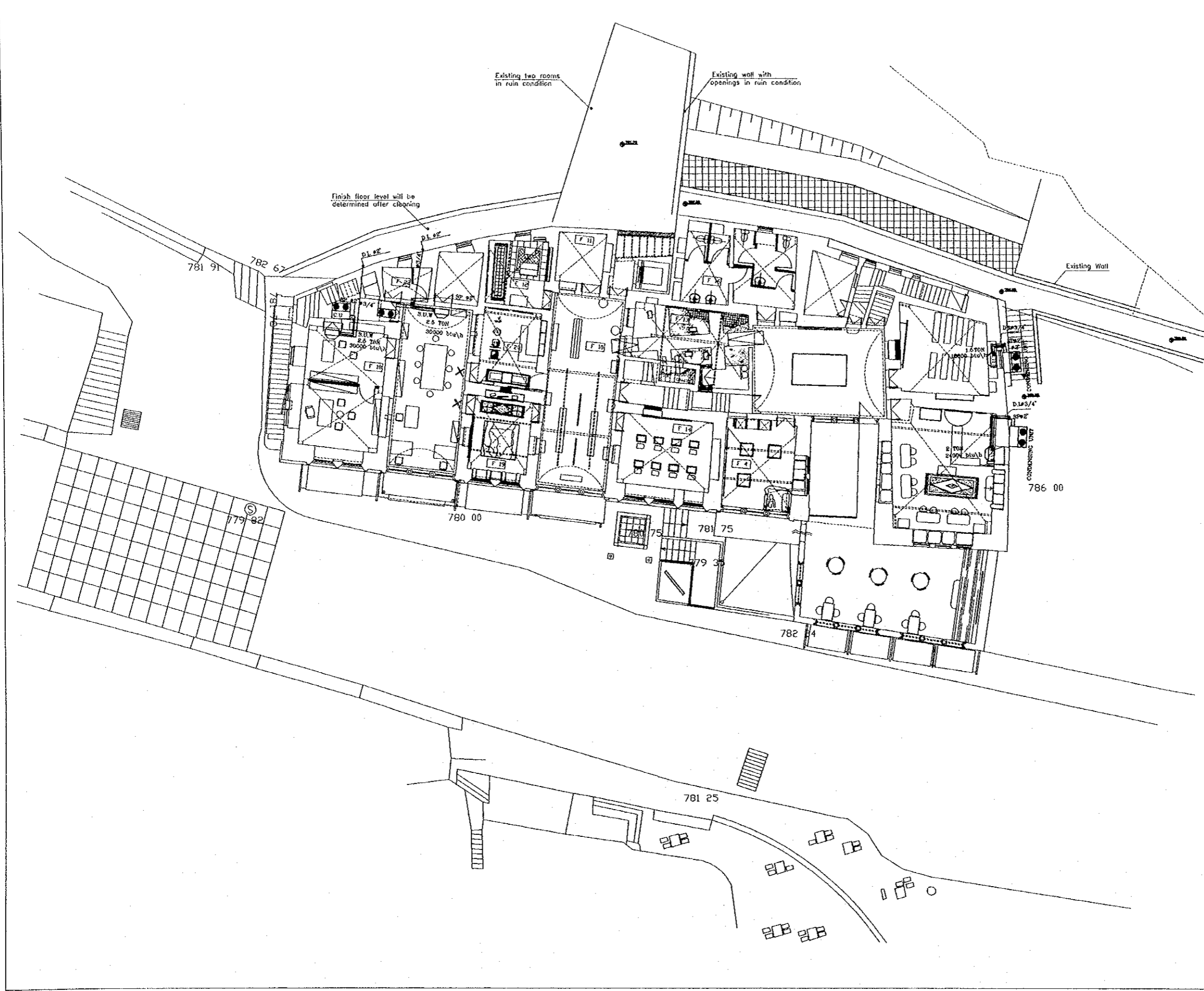
DL : DRAINAGE LINE
SP : SUPPLY LINE
S.U.W : SPLIT UNIT WALL MOUNTED
C.U : CONDENSING UNIT



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Historic Old Salt Museum
Drawing Title:
FIRST FLOOR
AIR CONDITIONING

Scale: 1:100
Drawing No.: HHM.M-07



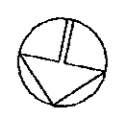
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SP : SUPPLY LINE
S.U.W : SPLIT UNIT WALL MOUNTED
DL : DRAINAGE LINE
C.U : CONDENSING UNIT



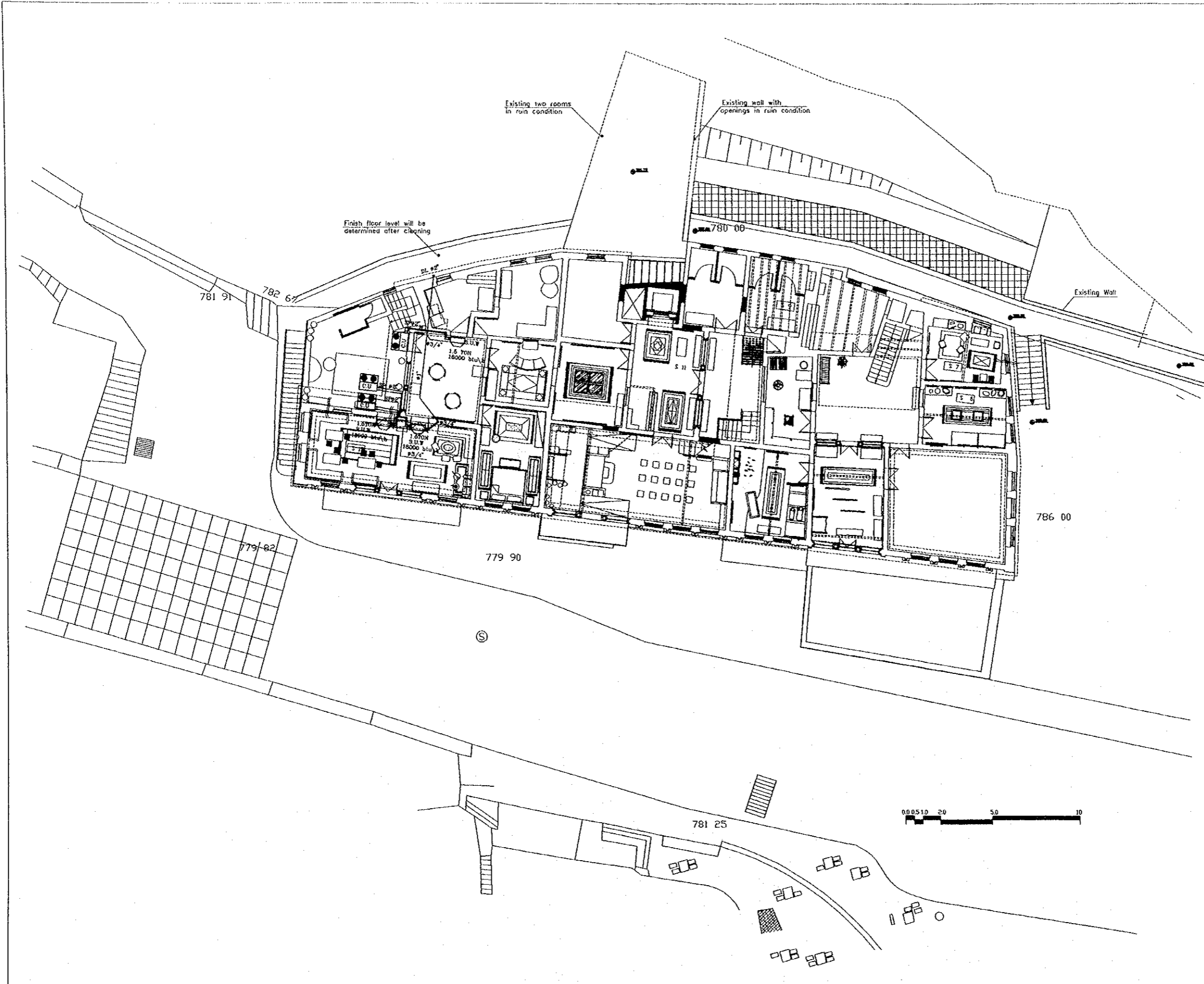
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Historic Old Salt Museum
Drawing Title:
Second Floor
AIR CONDITIONING

Scale: 1:100
Drawing No.: HHM-M-08

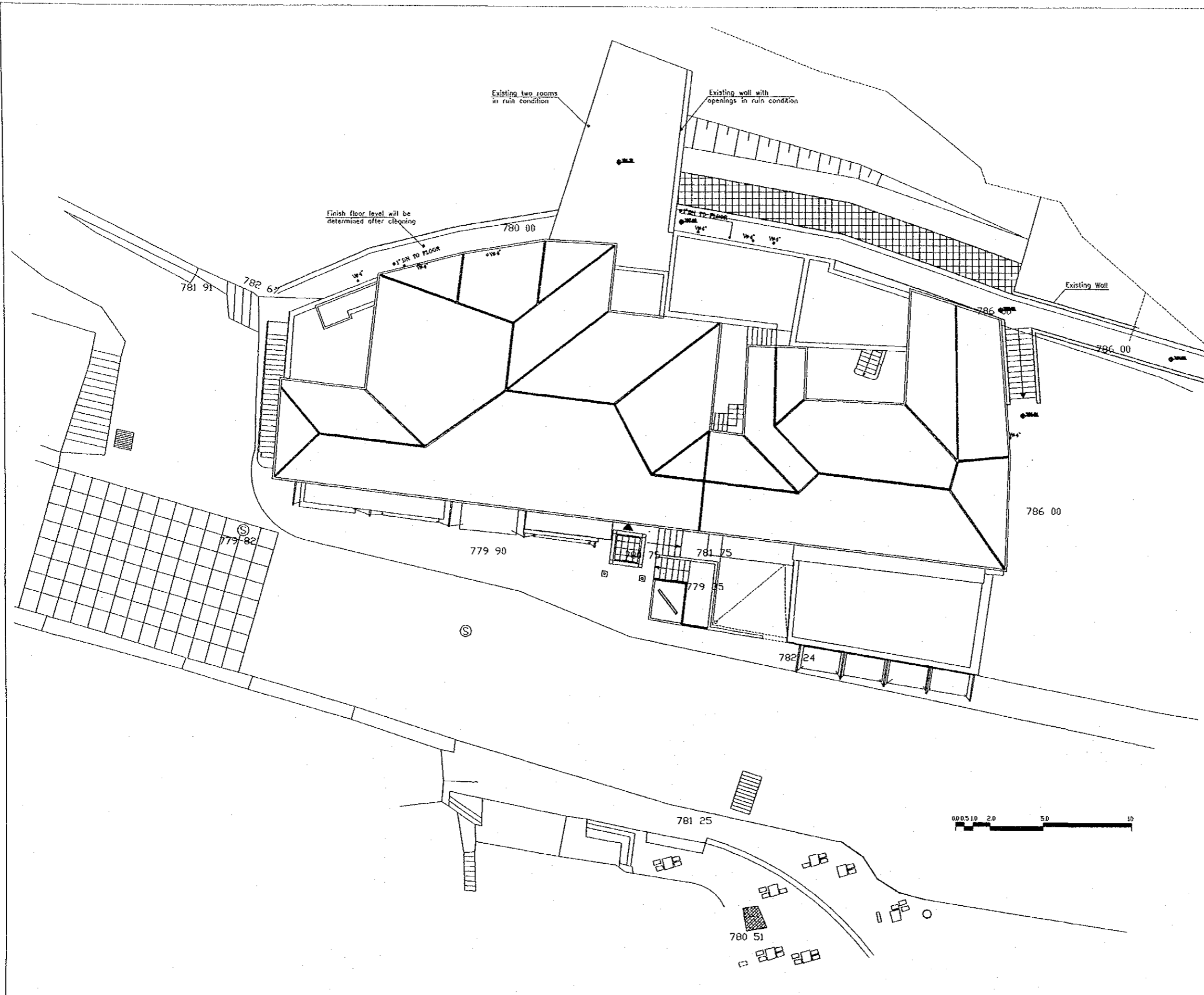


Tourism Sector Development Project
In the Hashemite Kingdom of Jordan

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Historic Old Salt Museum
Drawing title:
ROOF PLAN

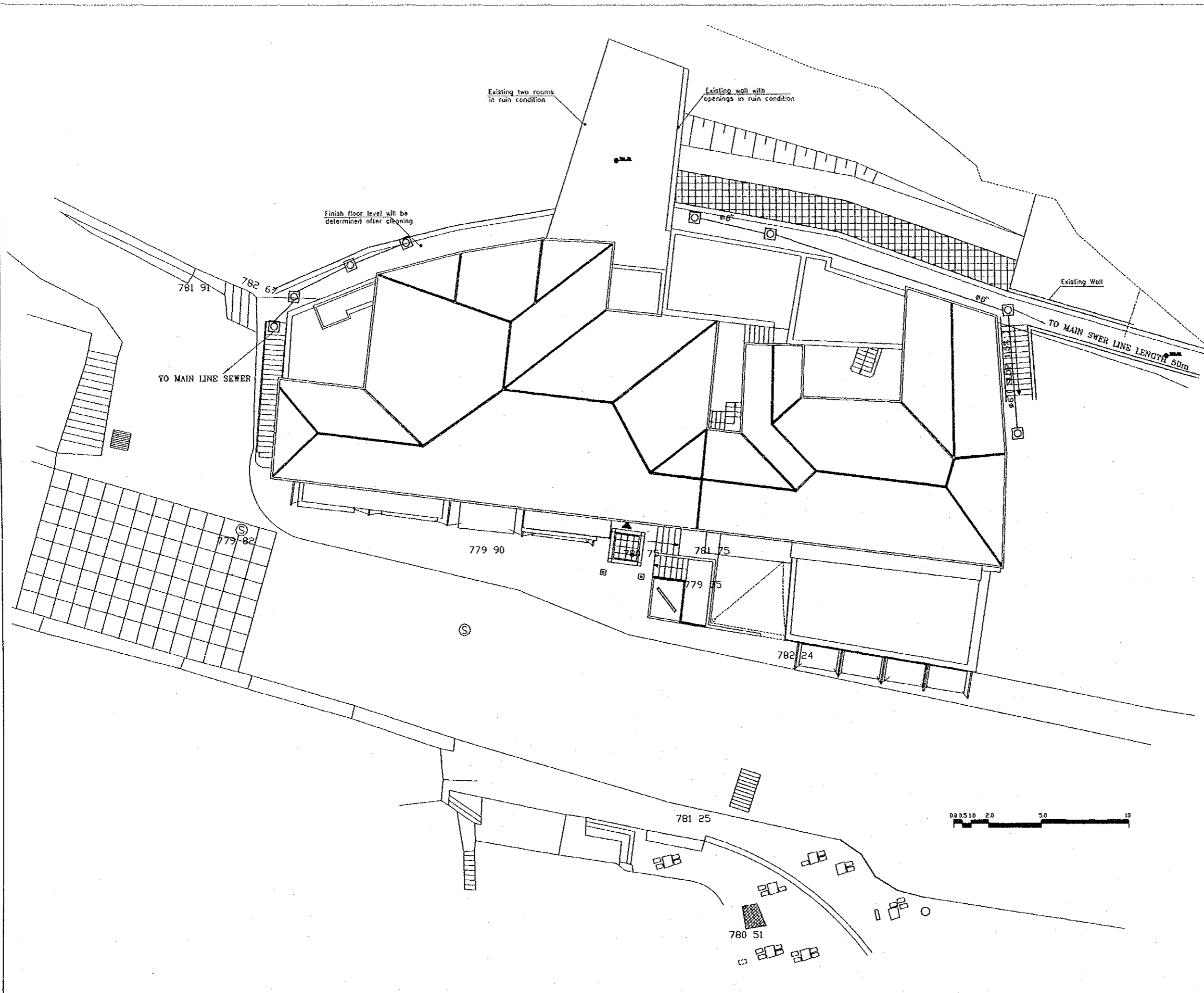
Scale: 1:100
Drawing No: HRM.M-09

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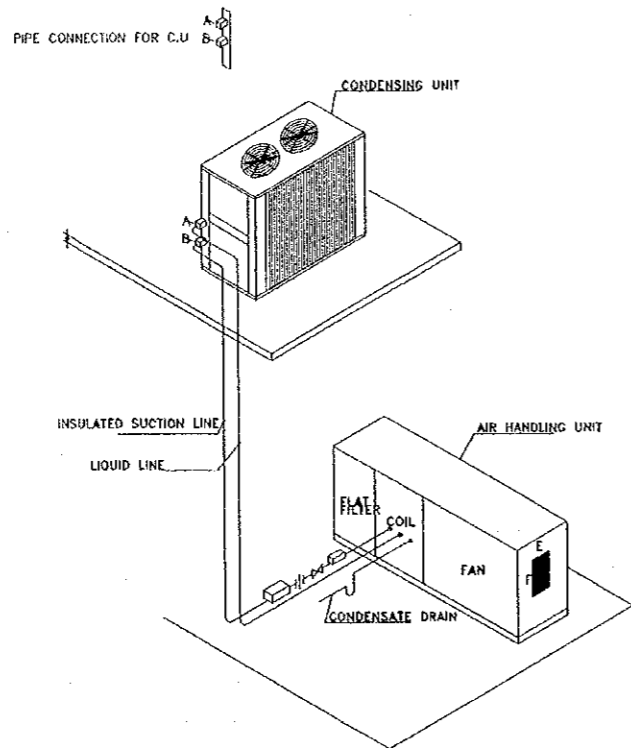
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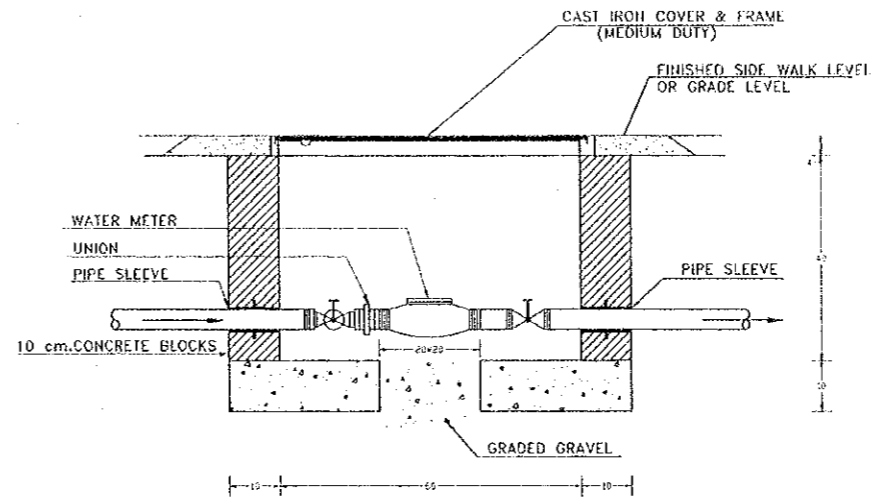
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Historic Old Salt Musuem
Drawing Title:
SITE PLAN

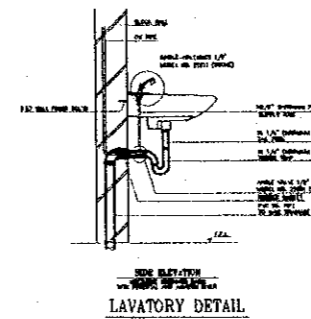
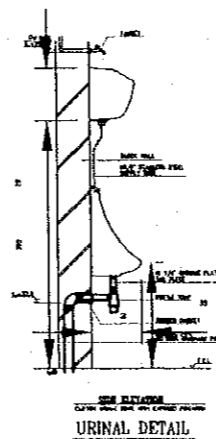
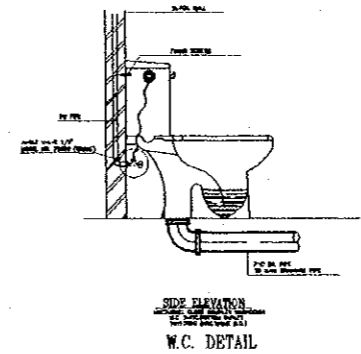
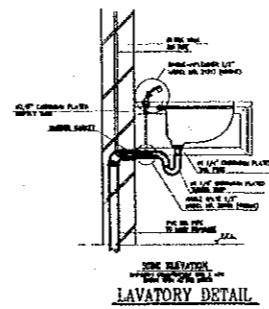
Scale: 1:100
Drawing No.: HHM-A-10



INSULATION AND CONNECTION AIR HANDLING UNIT WITH CONDENSING UNIT



WATER METER MANHOLE
DETAIL
SCALE 1:10

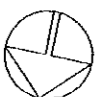


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F.D : FLOOR DRAIN
C.O : CLEANOUT
V&D : VENT & DRAIN
MAN : MANHOLE



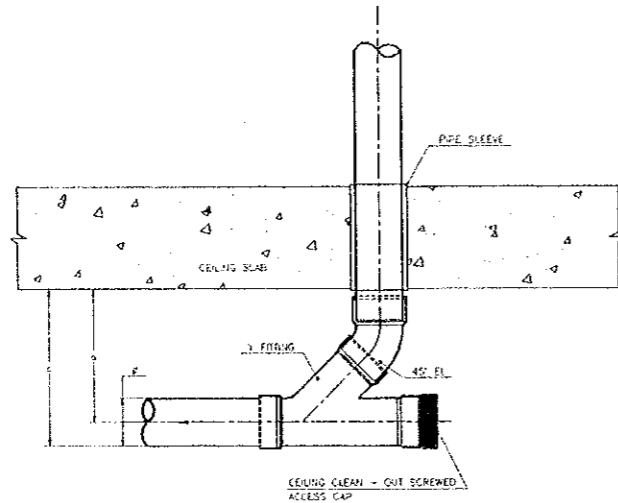
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Historic Old Salt Museum

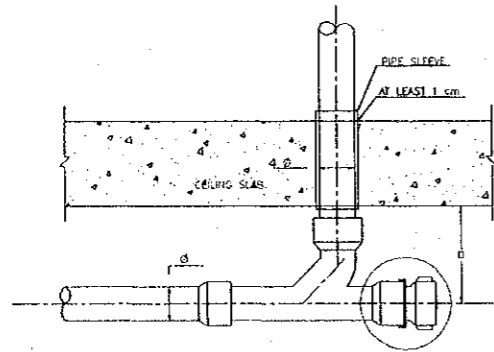
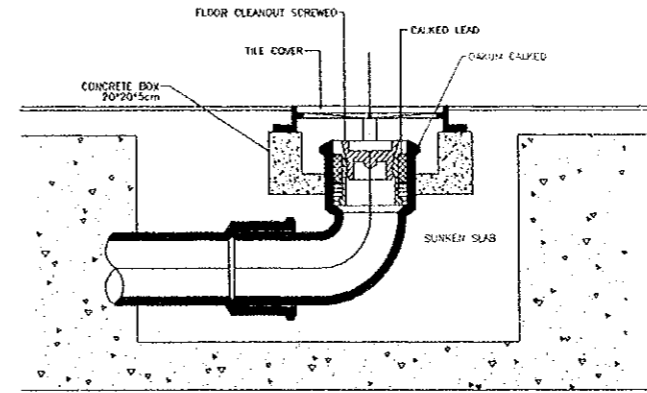
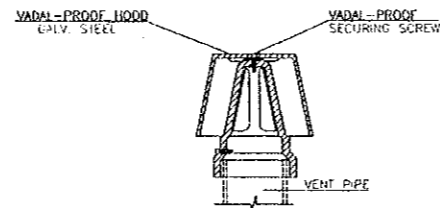
Drawing Title:
MECHANICAL DETAILS

Scale:
Drawing No.:
HHM.M-11



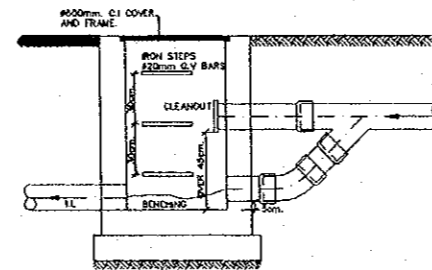
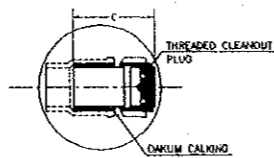
UPVC CEILING CLEAN-OUT DETAIL

φ	3"	4"	5"
	(76.2mm)	(101.6mm)	(127mm)
c	255mm	315mm	445mm
a	220mm	250mm	380mm

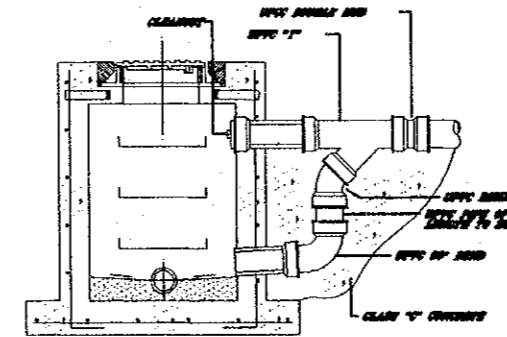


CEILING CLEANOUT DETAIL

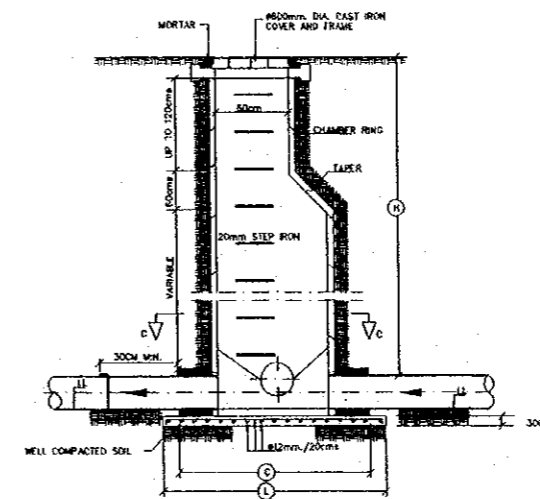
φ	3"	4"	5"
	76.2	101.6	127
G	28.6	30.8	39.7
	cm	cm	cm
C	12	12.7	12.7
	cm	cm	cm



DROP MANHOLE DETAIL



SEWAGE MANHOLE DETAIL



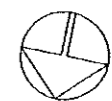
DROP MANHOLE DETAIL

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