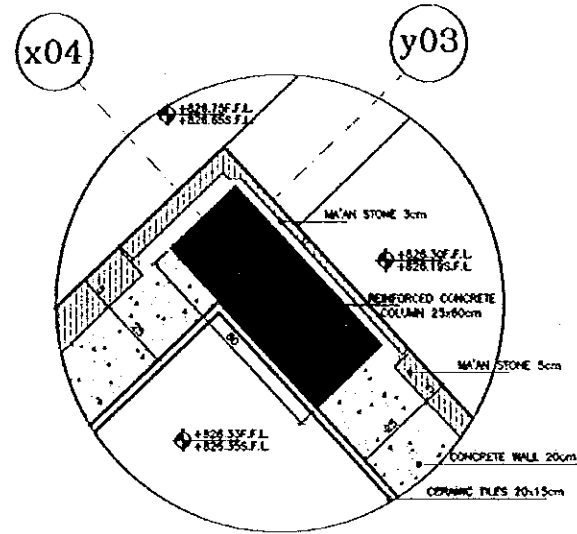


Project:
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

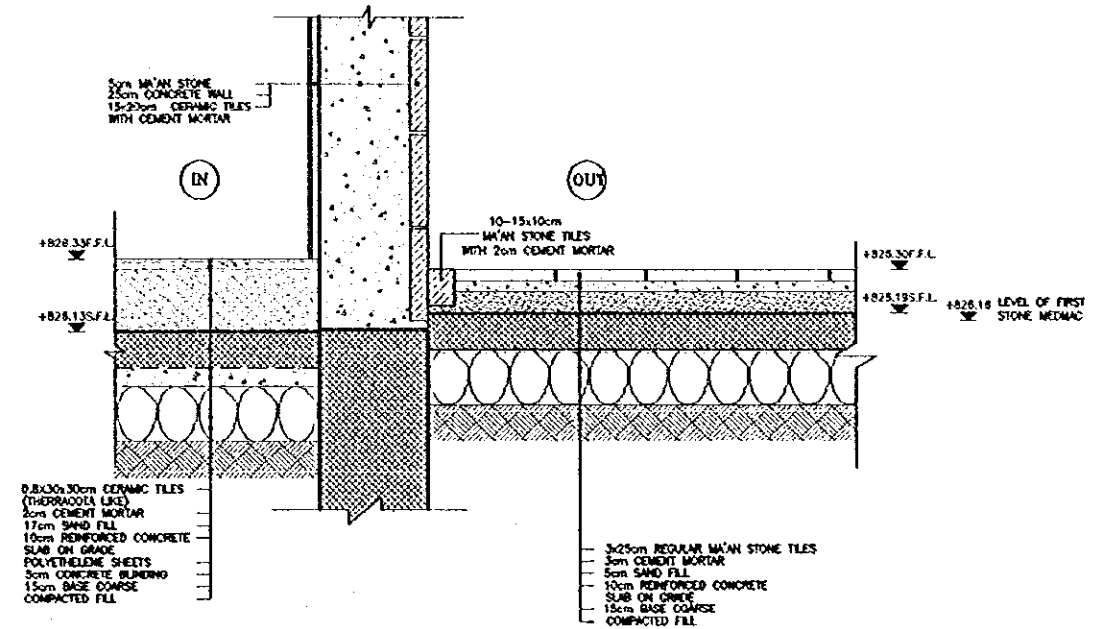
Executing Agency:
The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:
Karak Tourism Development Project
Lower Observation Point

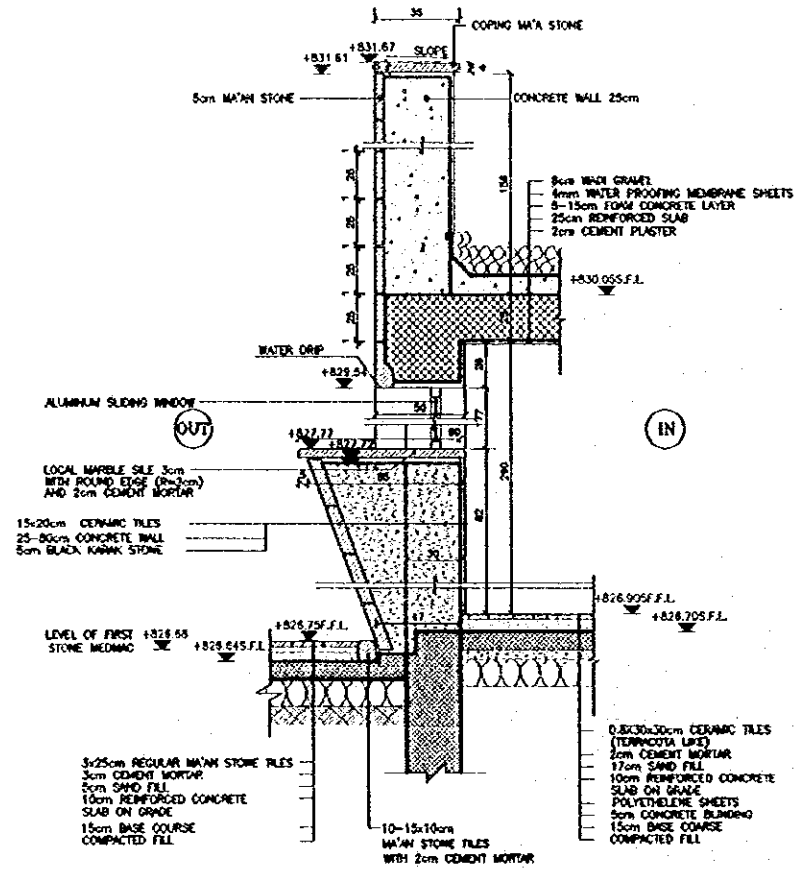
Note:
This detailed design has been executed by
a team of consultants as shown below in
accordance with the agreement between
Japan International Cooperation Agency
(JICA) and JICA Study Team.
The copyright of this drawing rests with
JICA.



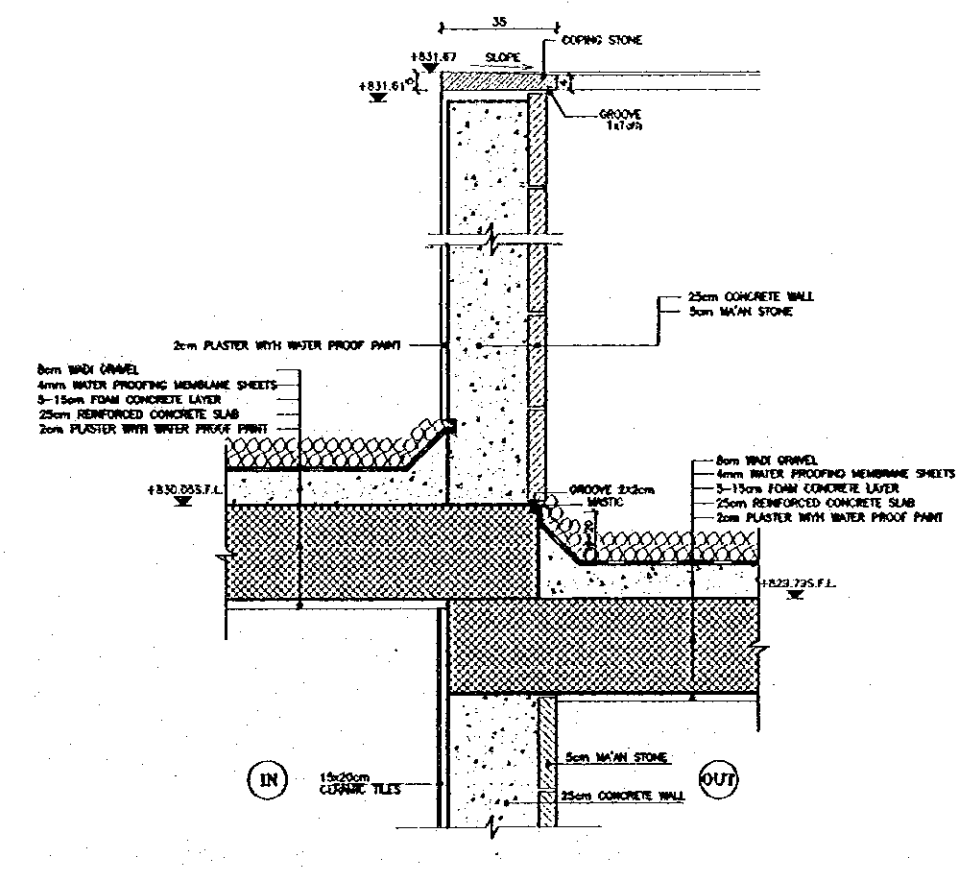
1 DETAIL (1)
SCALE = 1:10



2 DETAIL (2)
SCALE = 1:10



3 WALL SECTION DETAIL
SCALE = 1:10



4 PARAPET DETAIL
SCALE = 1:10

Designed by:
Japan International Cooperation
Agency (JICA)
JICA Study Team:
Joint Venture of
Pacific Consultants International and
Yamamoto Sekkei Inc.
Subcontracted Local Consultant:

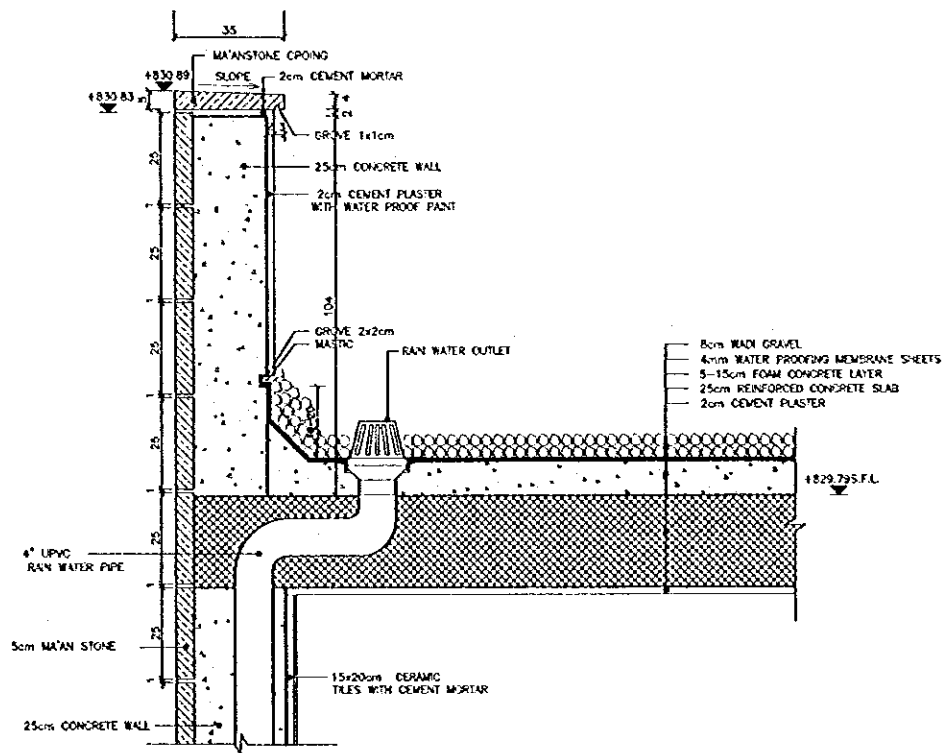
consolidated consultants
engineering & environment
Tel: 991277 - Fax: 991280 - AMMAN - JORDAN

**ARCHITECTURAL
DETAILS-1**

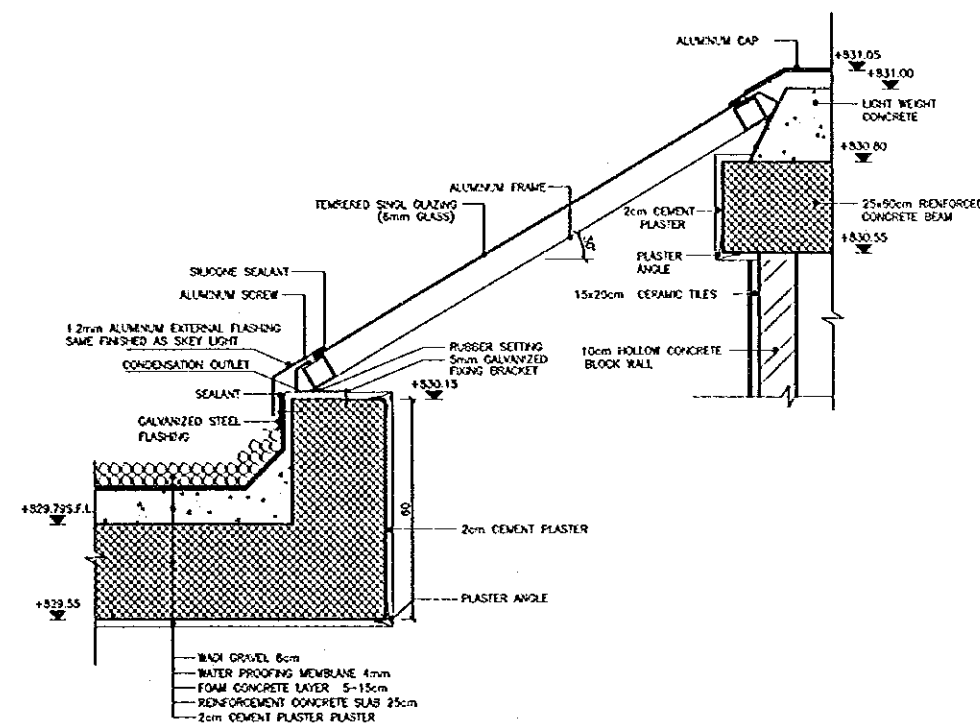
Drawing Title:

Scale:
AS SHOWN

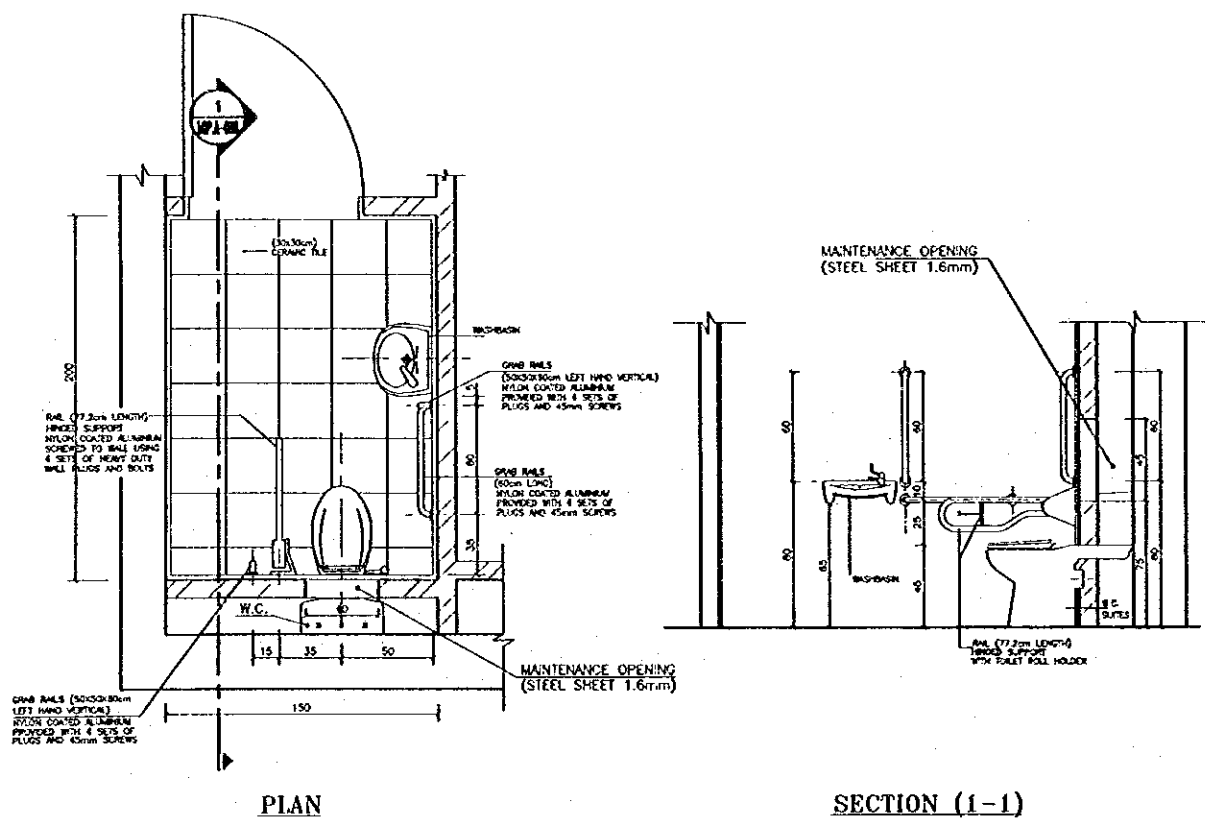
Drawing No.:
LOP.A-008



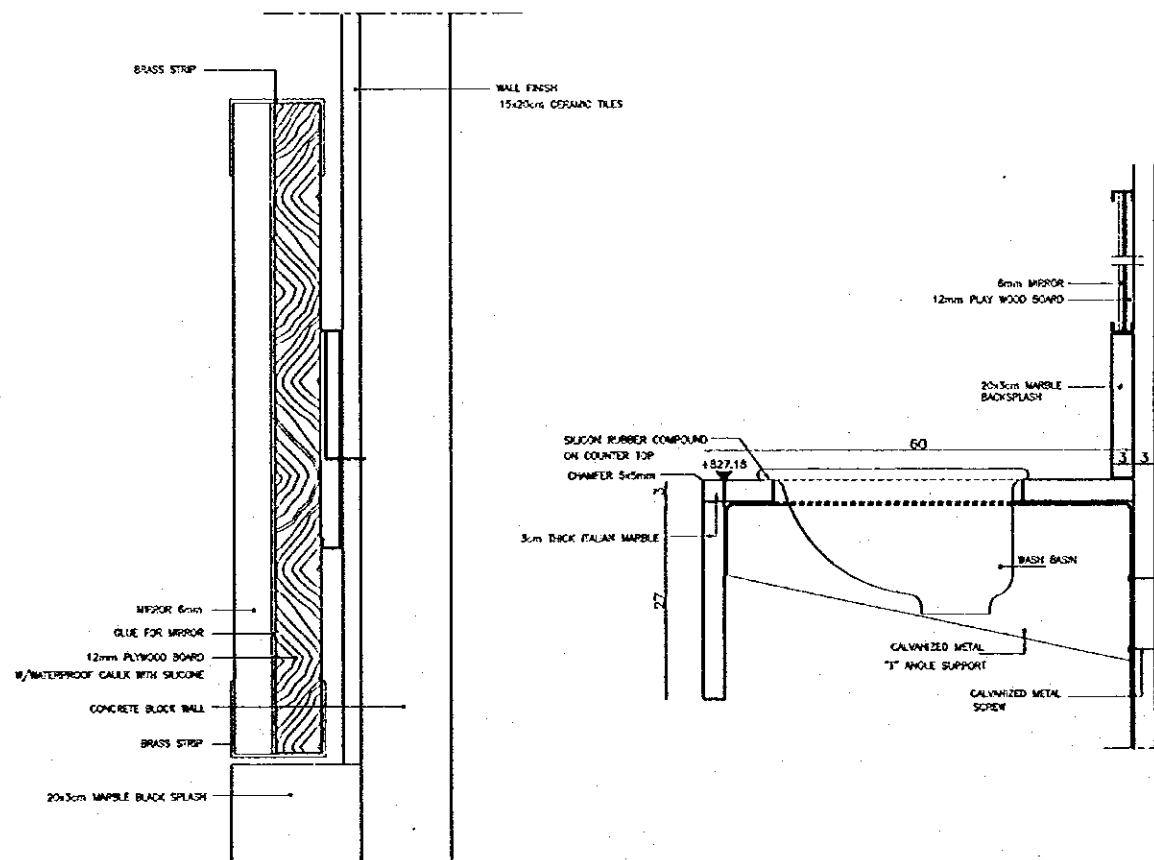
5 STORM WATER DRAINAGE DETAIL
SCALE = 1:10



6 SKY LIGHT DETAIL
SCALE = 1:10



7 DISABLED TOILET LAYOUT
SCALE = 1:20



8 VANITY COUNTER TOP TOILET MIRROR FIXING DETAIL
SCALE = 1:10

Project:
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

Executing Agency

The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:

Karak Tourism Development Project
Upper Observation Point

Note:

This detailed design has been executed by a team of consultants as shown below in accordance with the agreement between Japan International Cooperation Agency (JICA) and JICA Study Team.

The copyright of this drawing rests with JICA.

Designed by:

Japan International Cooperation Agency (JICA)

JICA Study Team:

Joint Venture of
Pacific Consultants International and
Yamashita Sekkei Inc.

Subcontracted Local Consultant:

consolidated consultants
CONSOLIDATED CONSULTANTS
TEL. 4612377 - FAX 4612380 - AMMAN - JORDAN

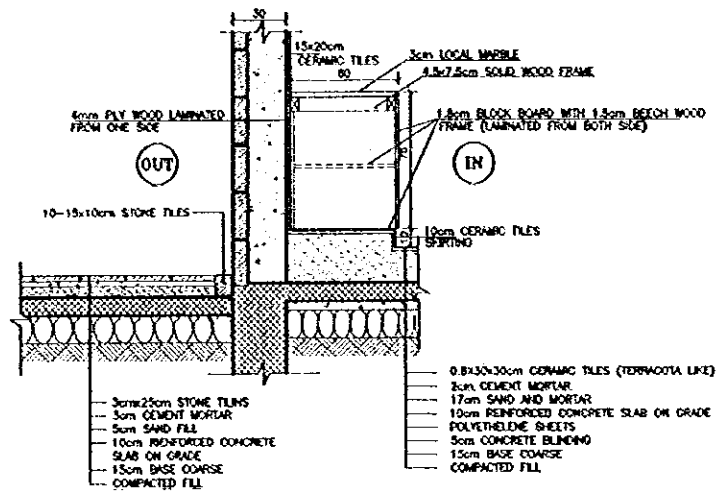
ARCHITECTURAL
DETAILS-2

Drawing Title:

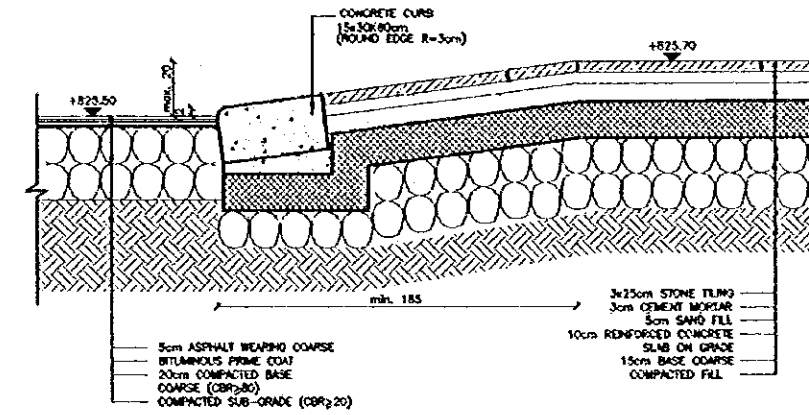
Scale:
AS SHOWN

Drawing No:

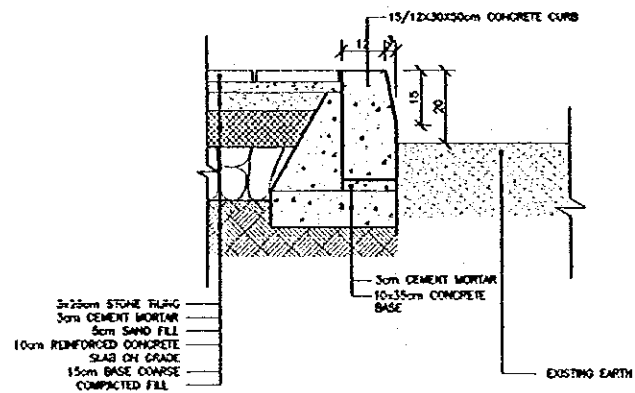
LOP.A-009



9 CAFETERIA COUNTER DETAIL
SCALE = 1:20



10 SIDE WALK HANDICAPPED RAMP DETAIL
SCALE = 1:30



11 CURB STONE DETAIL
SCALE = 1:10

Project:
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

Executing Agency

The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:

Karak Tourism Development Project
Lower Observation Point

Note:
This detailed design has been executed by
a team of consultants as shown below in
accordance with the agreement between
Japan International Cooperation Agency
(JICA) and JICA Study Team.
The copyright of this drawing rests with
JICA.

Designed by:

Japan International Cooperation
Agency (JICA)

JICA Study Team:

Joint Venture of
Pacific Consultants International and
Yamasita Sekkei Inc.

Subcontracted Local Consultant:

consolidated consultants
engineering & environment
Tel: 0112272 - Fax: 0112280 - Amman - JORDAN

ARCHITECTURAL

DETAILS-3

Drawing Title:

Scale:
AS SHOWN

Drawing No.:

LOP.A-010

1.3

SCHEDULE OF FINISHING

FIRST FLOOR		FLOOR	SKIRTING	WALL	CEILING	REMARKS
RM. No.	ROOM NAME	TALIAN TILES CERAMIC TILES SUBSTRUMENT		IMPORTED CERAMIC TILES, TILES	CEMENT PASTER AND EMULSION PAINT	
0-01	F. TOILET					
0-02	M. TOILET					
0-03	CAFETERIA					
0-04	INFORMATION KIOSK					

DOORS AND WINDOWS SCHEDULE

DOOR NO.	Q.	SIZE		FRAME WIDTH	FRAME FINISH	LEAF FINISH		DOOR STOP	DOOR CLOSER	BOLT	DOOR LOCK	DOOR HANDLE	HINGE	MOVE	NOTE
		H.	W.			IN	OUT								
LAMINATED WOOD DOORS															
TD1	2	208	94	20	B.W.	U.A.	U.A.	F.F.	-	-	C2	L.W.	34		WOODWORK
TD2	2	208	94	14	B.W.	U.A.	U.A.	-	-	-	304	L.W.	34		WOODWORK
TD3	2	208	74	14	B.W.	U.A.	U.A.	-	-	-	304	L.W.	34		WOODWORK
ALUMINUM DOORS															
AD1	1	204	129		A.A.	B.A.A.	B.A.A.	F.F.	1.0H	-	C2	P.P.	34		WOODWORK
AD2	1	204	100		A.A.	B.A.A.	B.A.A.	F.F.	1.0H	-	C2	P.P.	34		WOODWORK
AD3	1	202	80		A.A.	B.A.A.	B.A.A.	F.F.	1.0H	-	C2	P.P.	34		WOODWORK
ALUMINUM WINDOWS															
AW1	1	232	113		A.A.	B.A.A.	B.A.A.	-	-	-	-	-	-	-	WOOD
AW2	1	175	204		A.A.	B.A.A.	B.A.A.	-	-	-	-	-	-	-	WOOD
AW3	4	87	85		A.A.	B.A.A.	B.A.A.	-	-	-	-	-	-	-	WOOD

ALUMINUM DOORS & WINDOWS WORKS GENERAL NOTES

- ALL ALUMINUM DOORS AND WINDOWS SECTIONS SHALL COME WITH POWER COATED ALUM. COLOUR IS SUBJECT TO ENR APPROVAL. SAMPLES OF ALL ALUMINUM SECTIONS, ACCESSORIES AND FINISHES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- ALL ALUMINUM SECTIONS SHALL BE AT LEAST 25 MICRON AND APPROVED BY THE ENGINEER FOR SLIDING WINDOWS & DOORS.
- FLY SCREEN SHALL BE PROVIDED WITHIN EACH ALUMINUM FRAME SAME COLOUR AS DOORS AND WINDOWS.
- ALL ALUMINUM DOORS AND WINDOWS SHALL BE FINISHED WITH THE NECESSARY HARDWARE AND ACCESSORIES AS PER APPROVED SAMPLES.
- ALL ALUMINUM DOORS AND WINDOWS SHALL BE COMPLETELY WEATHER AND DIRT PROOF.
- CONTRACTOR SHALL SUBMIT REVISIONS AND COMPLETE SAMPLES OF WINDOW FINISH FOR THE ENGINEER'S APPROVAL.

GLAZING

- ALL ACCESSORIES & FINISH MATERIALS SUCH AS GLAZING SPACERS, Gaskets, etc. shall be approved by the engineer.
- ALL GLAZING GLASS WINDOWS SHALL BE SINGLE GLAZED 6mm THICK.
- ALL GLAZING GLASS WINDOWS SHALL BE DOUBLE GLAZED 6mm THICK.
- GLAZING SHALL BE COVERED BY ALUMINUM SUPPLIER.

NOTATIONS & THEIR MEANING

F.F. = FINISH FACE
B.W. = BROWN WOOD
U.A. = UNIFORM FINISH
S. = SLIDING
S.A.S. = SIDE HINGE OPEN IN
F. = FIXED
T.A.S. = TOP HINGE OPEN OUT
T.A.I. = TOP HINGE OPEN IN

B.A.S. = BOTTOM HINGE OPEN IN
B.A.O. = BOTTOM HINGE OPEN OUT
F.S. = FLY SCREEN HINGE
P.P. = PUSH PLATE
1.0H = ONE HINGED WINDOW
H. = HINGED WINDOW
G.A. = GLAZING ALUMINUM
A.A. = ANODIZED ALUMINUM

WOOD DOOR WORKS GENERAL NOTES

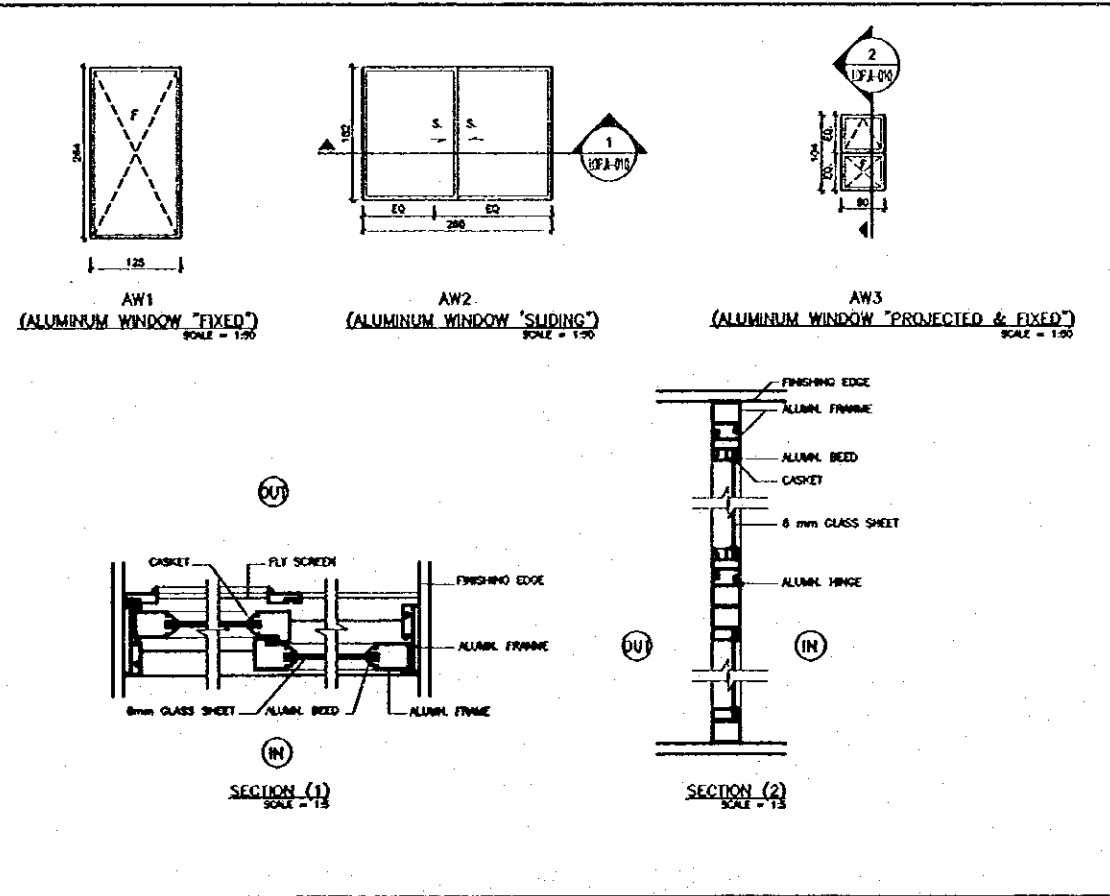
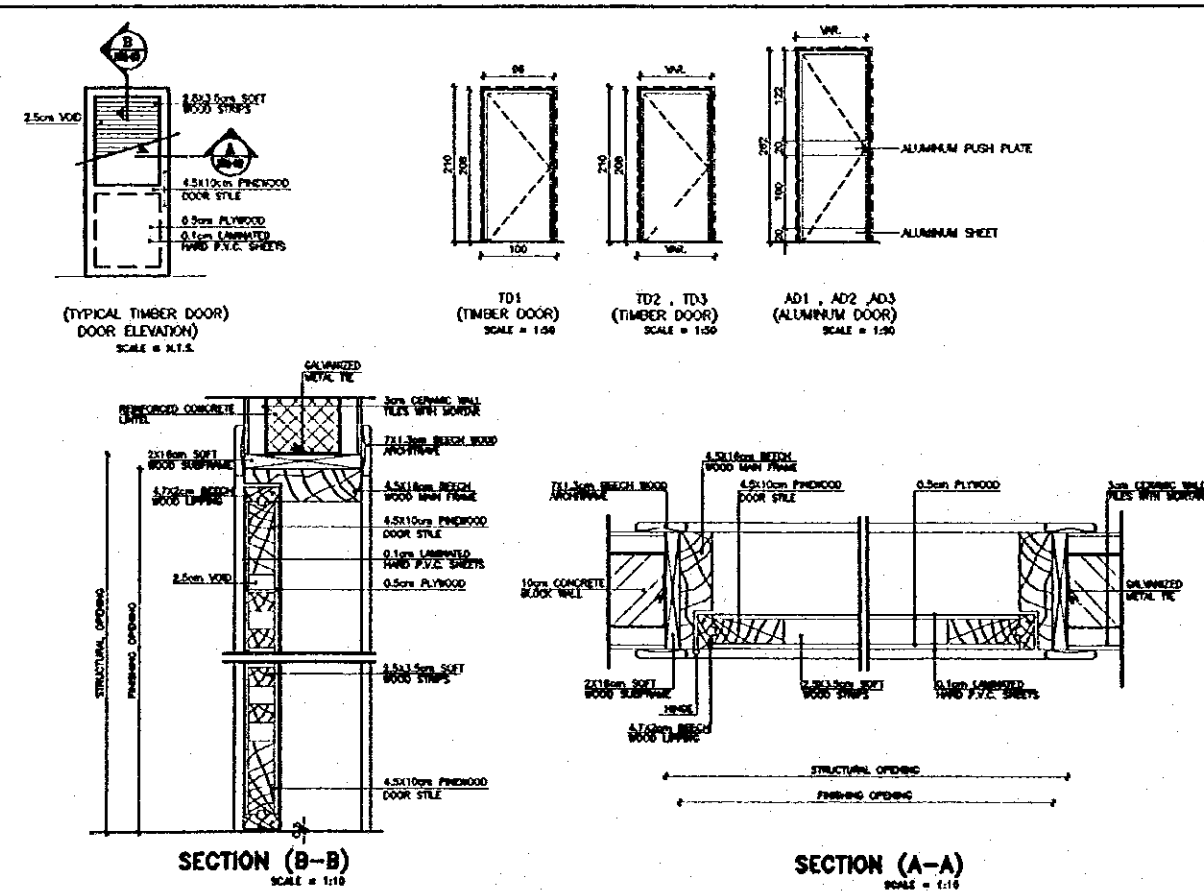
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD & SUBMIT SHOP DRAWING TO THE ENG. ENGINEER ALL SUCH INFORMATION FOR APPROVAL.
- ALL HARDWARE & FINISHES MATERIALS OF ACCESSORIES TO BE CHOICE OF HIGH QUALITY TO BE APPROVED BY THE ENGINEER (IF ANY) TO BE CHOICE OF HIGH QUALITY.
- FINISHES
 - ALL CERAMIC TILEWORK TO BE PROVIDED BY HIGH QUALITY COLOURLESS ACRIQUE COATING TO PROTECT FROM STAIN & CHEMICAL RESISTANCE.
 - ALL WOODWORK (INTERNAL OR EXTERNAL) TO BE FINISHED WITH POLYURETHANE CLEAR FINISH (2ND COAT) WITH / CLEAR.
 - ALL ALUM. ONE COAT POLYURETHANE CLEAR FINISH (2ND COAT) WITH / CLEAR.
 - FINISH FINISHES OF WOODWORK TO BE FINISHED BY CLEAR LACER.
- DOORS
 - ALL DIMENSIONS SHOWING THE HEIGHT OF THE DOOR IS TAKEN FROM FINISHED FLOOR LINE TO THE TOP OF FRAME AT AREA EXCLUDING ARCHITECTURE.
 - INDICATORS OF WORKING DIMS SHALL INDICATE DIMENSIONS OF WINDOW OPENINGS EXCLUDING MATERIAL THICKNESS (2mm).
- ALL FINISHES OF THE ABOVE DOOR (IF ANY) TO BE POWER COATED.

LIST OF ABBREVIATIONS

L.W. = LEAF HANDLE ON BOTH SIDES OF LEAF COMPLETE WITH LEAF BACK PLATE AND ISOLATION ONLY FOR DOORS
L.H. = LEAF HANDLE
L.C. = LEAF LOCKER POINT
C. = C. PLATE
F.C. = FLY SCREEN COVER PLATE
F. = FLY SCREEN HINGE
S.A. = SLIDING
L.F. = LEAF FLOOR TYPE WHITE COLOUR
L.A. = LEAF ACTION FLUSH BOLTS W/ DIRT EXCLUDING SCREWS (IF SPRING LOADED)
L.B. = LEAF LOCK OPERABLE FROM BOTH SIDES
L.O. = LEAF LOCK OPERABLE FROM ONE SIDE
L.S. = LEAF LOCK OPERABLE FROM BOTH SIDES
S.H. = SIDE HANDLE
P.P. = PUSH PLATE
F.S. = FLY SCREEN HINGE
H. = HINGED WINDOW
G.A. = GLAZING ALUMINUM
A.A. = ANODIZED ALUMINUM
L.C. = LEAF LOCK

FINISHING SCHEDULE

DOORS AND WINDOWS SCHEDULE



DOORS ELEVATIONS & DETAILS

WINDOWS ELEVATIONS & DETAILS

Project:
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

Executing Agency
The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:
Karak Tourism Development Project
Lower Observation Point

Note:
This detailed design has been executed by a team of consultants as shown below in accordance with the agreement between Japan International Cooperation Agency (JICA) and JICA Study Team.
The copyright of this drawing rests with JICA.

Designed by:
Japan International Cooperation Agency (JICA)
JICA Study Team:
Joint Venture of
Pacific Consultants International and
Yamashita Sekkei Inc.
Subcontracted Local Consultant:

consolidated consultants
engineering & environment
Tel: 0112377 - Fax: 0112380 - AMMAN - JORDAN

FINISHING SCHEDULE
& DOORS & WINDOWS
DETAILS

Scale: AS SHOWN Drawing No: LOP.A-011

<p>1 TYPICAL ROOM NAME SIGN SCALE = 1:10</p>	<p>2 TOILET SIGN SCALE = 1:10</p>	<p>3 TOILET SIGN SCALE = 1:10</p>	<p>4 TOILET SIGN SCALE = 1:10</p>
<p>5 CAFETERIA SIGN SCALE = 1:10</p>			

Project:
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

Executing Agency:
The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:
Karak Tourism Development Project
Lower Observation Point

Note:
This detailed design has been executed by a team of consultants as shown below in accordance with the agreement between Japan International Cooperation Agency (JICA) and JICA Study Team. The copyright of this drawing rests with JICA.

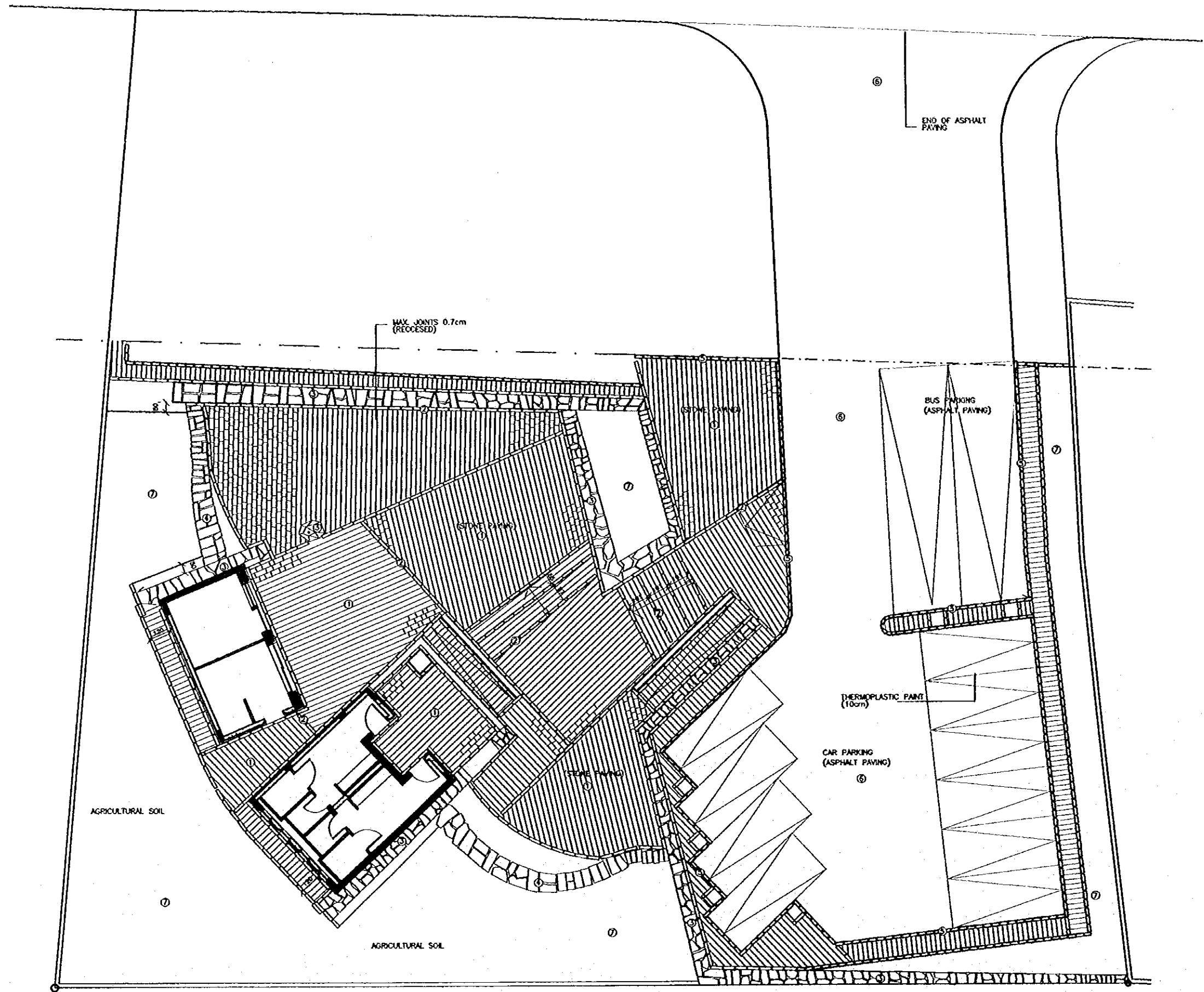
Designed by:
Japan International Cooperation Agency (JICA)
JICA Study Team:
Joint Venture of Pacific Consultants International and Yamasita Sekkei Inc.
Subcontracted Local Consultant:

SIGNAGE SCHEDULE

Drawing Title:

Scale: 1/10 Drawing No.: LOP.A-012

111



Project:
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

Executing Agency
The Ministry of Tourism and Antiquities
The Ministry of Planning

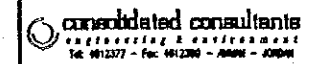
SUB-PROJECT:
Karak Tourism Development Project
Lower Observation Point

Note:
This detailed design has been executed by a team of consultants as shown below in accordance with the agreement between Japan International Cooperation Agency (JICA) and JICA Study Team. The copyright of this drawing rests with JICA.

- LEGEND:**
- ① (25cm WIDE X VARIABLE LENGTH) REGULAR STONE TILES
 - ② (10-15cm THICK X 10 OR 25cm) STONE CUTS FOR STEPS (25cm) AND EDGES (10cm) (BLACK TILING) AND PLANTER EDGES (20cm)
 - ③ BLACK KARAK BIG ROUGH STONE CUTS
 - ④ WHITE RUBBLE STONE (BIG CUTS)
 - ⑤ 15x30x50cm CONCRETE CURB
 - ⑥ ASPHALT PAVING
 - ⑦ AGRICULTURAL SOIL



Designed by:
Japan International Cooperation Agency (JICA)
JICA Study Team:
Joint Venture of Pacific Consultants International and Yamasita Sekkei Inc.
Subcontracted Local Consultant:

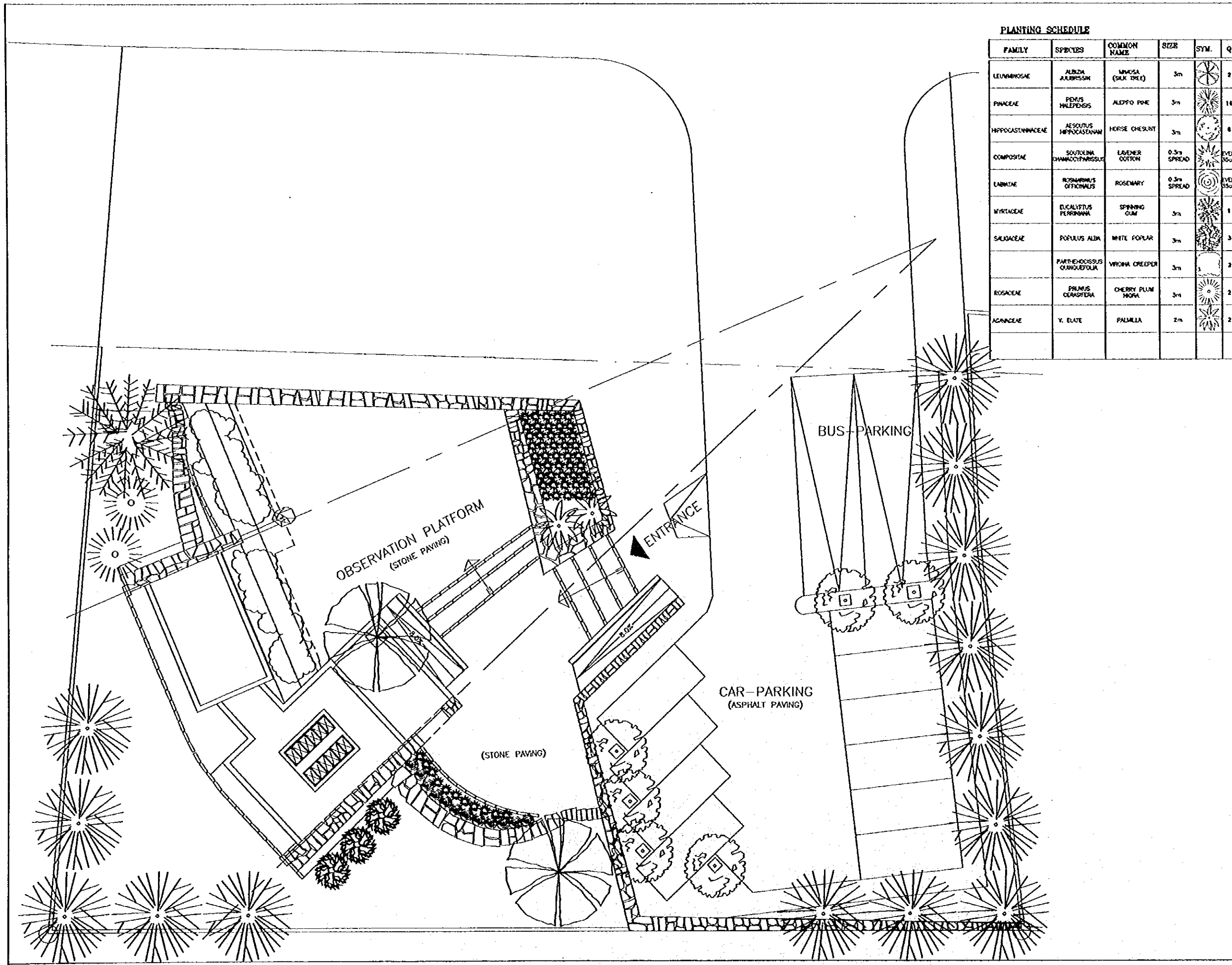


TILING & MATERIALS

Drawing Title:

Scale: 1:100 Drawing No.: LOP.L-001

10/2



PLANTING SCHEDULE

FAMILY	SPECIES	COMMON NAME	SIZE	SYM.	Q.
LEGNIMINOSAE	ALBIZIA JULIBRISSEM	MIMOSA (SIKIL TREE)	3m		2
PARACEAE	PERUS PALMISTOSIS	ALEPPO PINE	3m		14
HIPPICASTANACEAE	AESOLUTUS HIPPOCASTANUM	HORSE CHESTNUT	3m		8
COMPOSITAE	SOUTOLINA DIMORPHOPARISSEUE	LAVENDER COTTON	0.5m SPREAD		EVERY 15cm
LAMIACEAE	ROSMARINUS OFFICINALIS	ROSEMARY	0.5m SPREAD		EVERY 15cm
MYRTACEAE	EUCALYPTUS PERGRANNA	SPRING GUM	3m		1
SALICACEAE	POPULUS ALBA	WHITE POPLAR	3m		3
	PARTHENOCESSUS QUINQUEFOLIA	VIORNA CREEPER	3m		2
ROSACEAE	PRUNUS CENSIFERA	CHERRY PLUM MOGA	3m		2
AGAVACEAE	Y. ELATE	PALMILLA	2m		2

Project:
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

Executing Agency
The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:
Karak Tourism Development Project
Lower Observation Point

Note:
This detailed design has been executed by a team of consultants as shown below in accordance with the agreement between Japan International Cooperation Agency (JICA) and JICA Study Team.
The copyright of this drawing rests with JICA.



Designed by:
Japan International Cooperation Agency (JICA)
JICA Study Team:
Joint Venture of Pacific Consultants International and Yamasita Sekkei Inc.
Subcontracted Local Consultant:



PLANTING PLAN

Drawing Title:

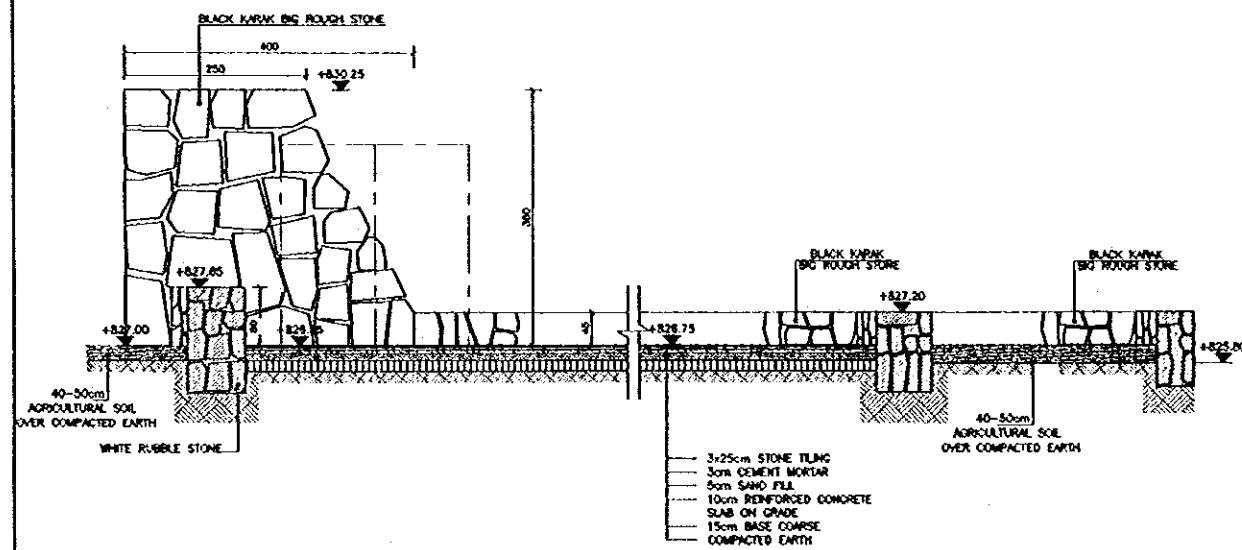
Scale: 1:100
Drawing No.: LOP.L-002

Project:
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

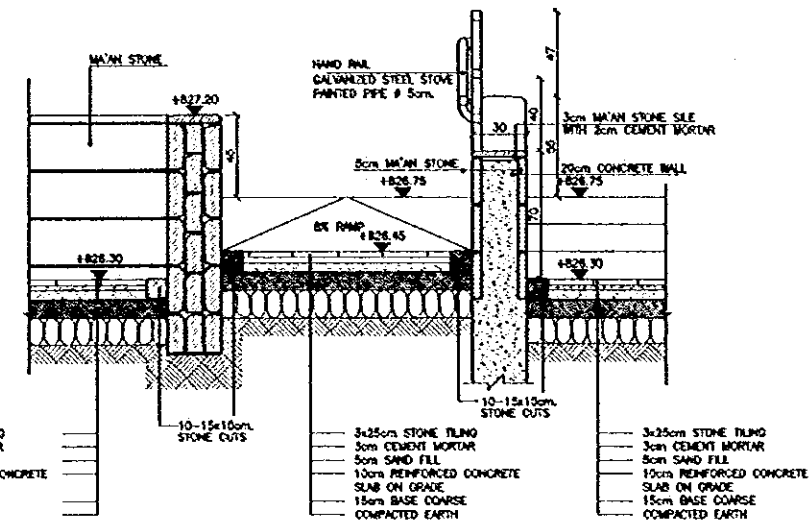
Executing Agency
The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:
Karak Tourism Development Project
Lower Observation Point

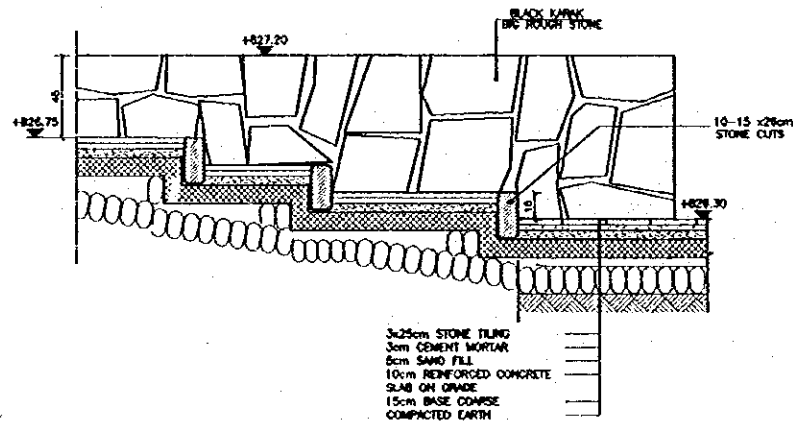
Note:
This detailed design has been executed by
a team of consultants as shown below in
accordance with the agreement between
Japan International Cooperation Agency
(JICA) and JICA Study Team.
The copyright of this drawing rests with
JICA.



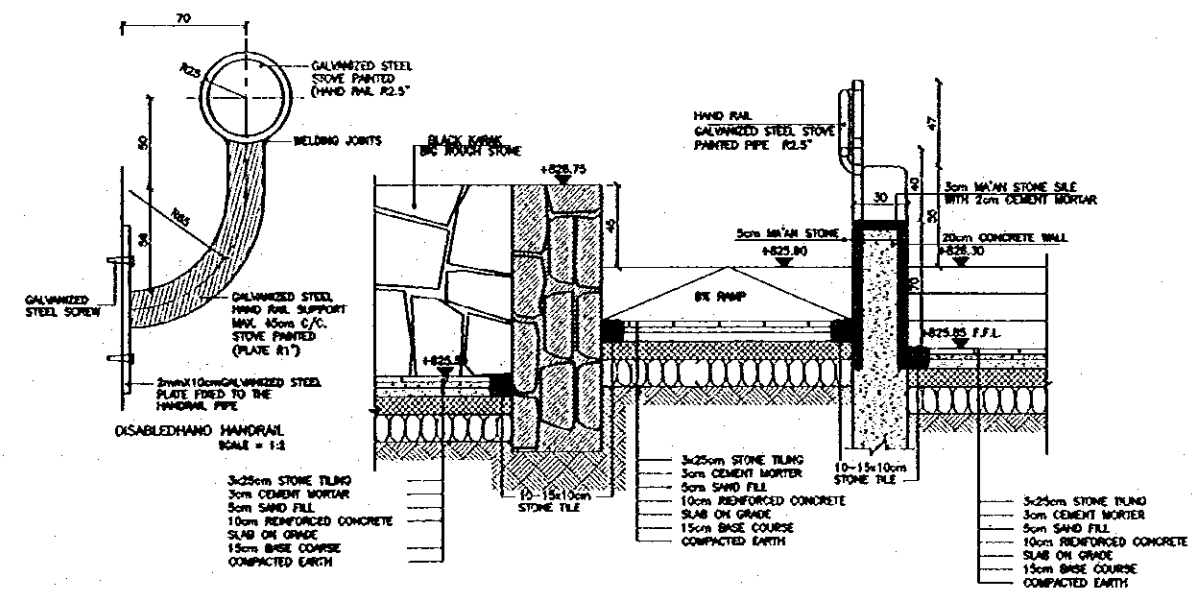
SECTION (1-1)
SCALE = 1:30



SECTION (2-2)
SCALE = 1:30



SECTION (3-3)
SCALE = 1:30



SECTION (4-4)
SCALE = 1:30

Designed by:
Japan International Cooperation
Agency (JICA)

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

Subcontracted Local Consultant:

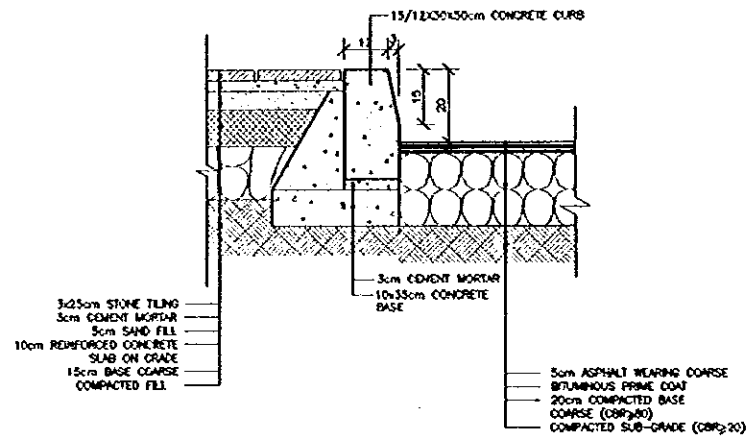
consolidated consultants
engineering & environment
Tel: 0112377 - Fax: 0112389 - AMM - 20884

LANDSCAPE
DETAILS-1

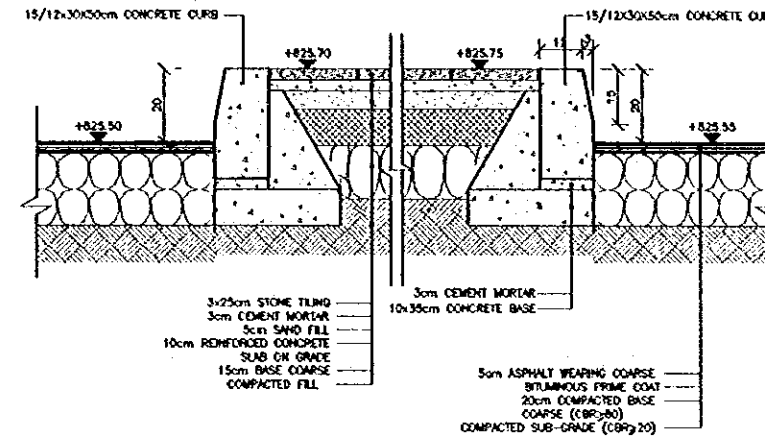
Drawing Title:

Scale:
AS SHOWN

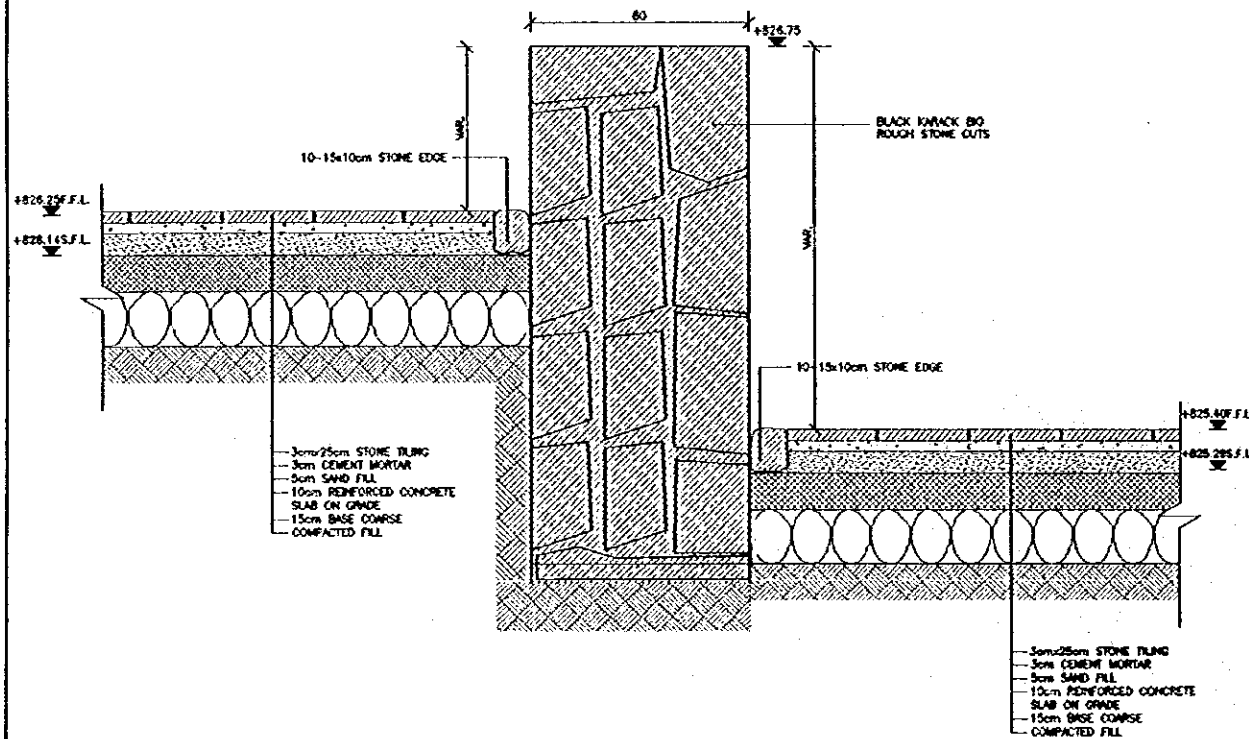
Drawing No.:
LOP.L-003



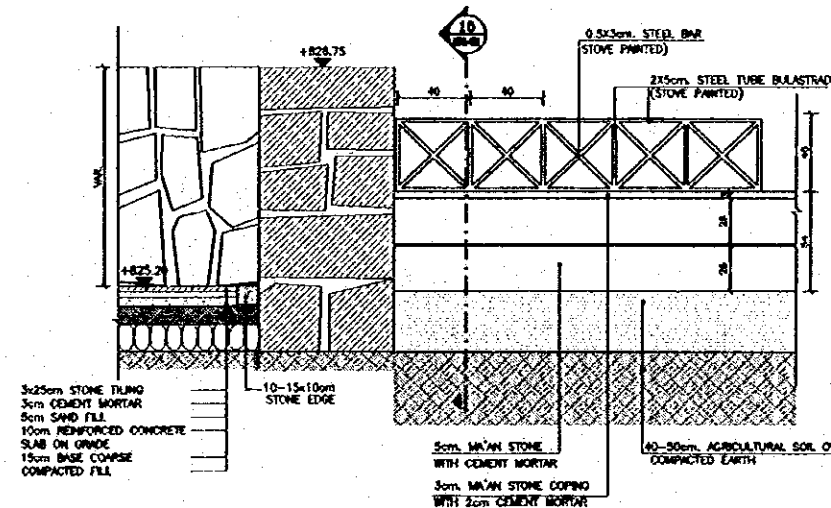
5 SECTION (5-5)
SCALE = 1:10



6 SECTION (6-6)
SCALE = 1:10



7 SECTION (7-7)
SCALE = 1:10



8 SECTION (8-8)
SCALE = 1:20

Project:
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

Executing Agency:
The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:
Karak Tourism Development Project
Lower Observation Point

Note:
This detailed design has been executed by
a team of consultants as shown below in
accordance with the agreement between
Japan International Cooperation Agency
(JICA) and JICA Study Team.
The copyright of this drawing rests with
JICA.

Designed by:
Japan International Cooperation
Agency (JICA)
JICA Study Team:
Joint Venture of
Pacific Consultants International and
Yamashita Sekkei Inc.
Subcontracted Local Consultant:

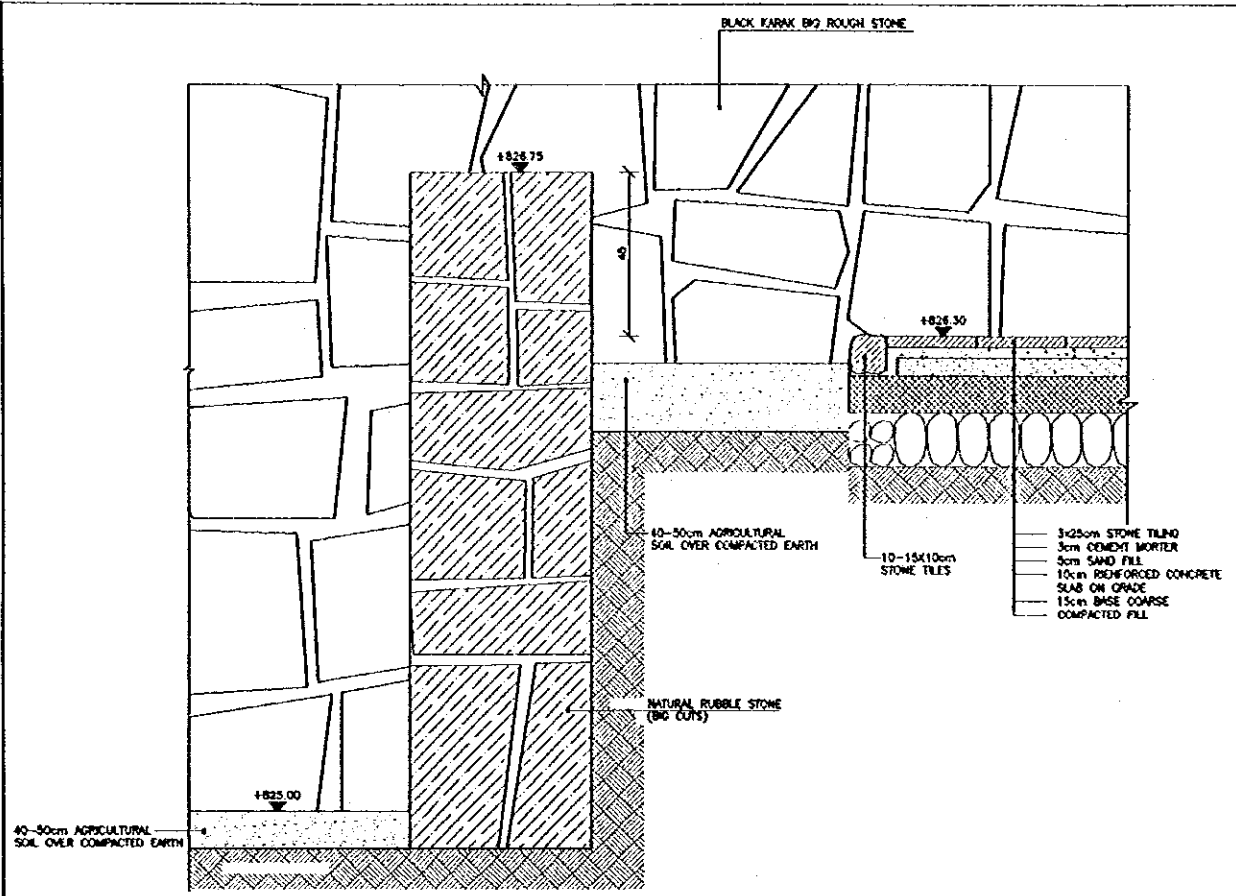
consolidated consultants
CONSULTING & ENGINEERING
Tel: 995277 - Fax: 995280 - AMMAN - JORDAN

LANDSCAPE
DETAILS-2

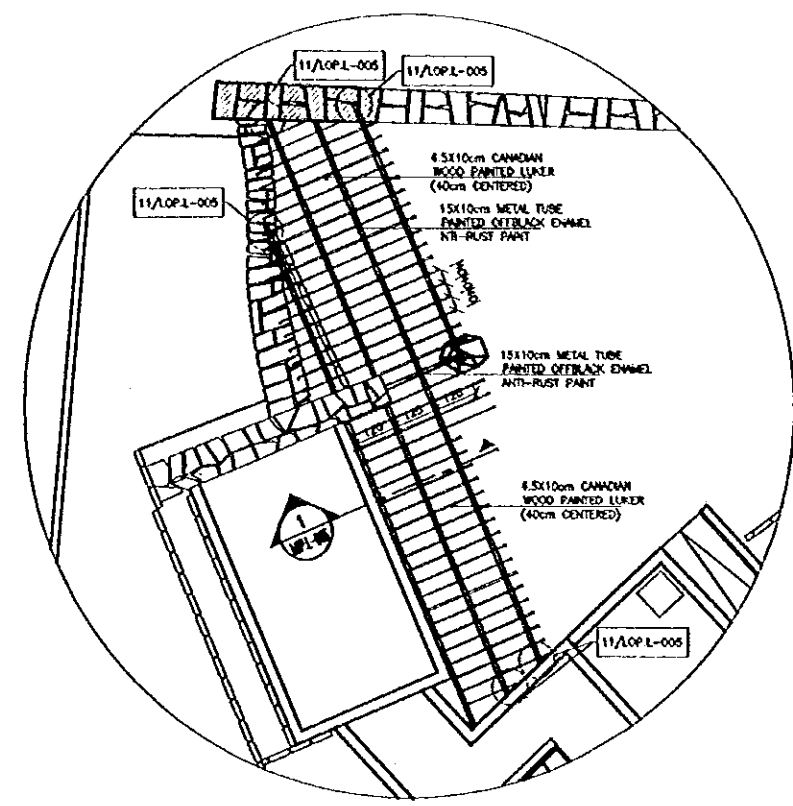
Drawing Title:

Scale:
AS SHOWN

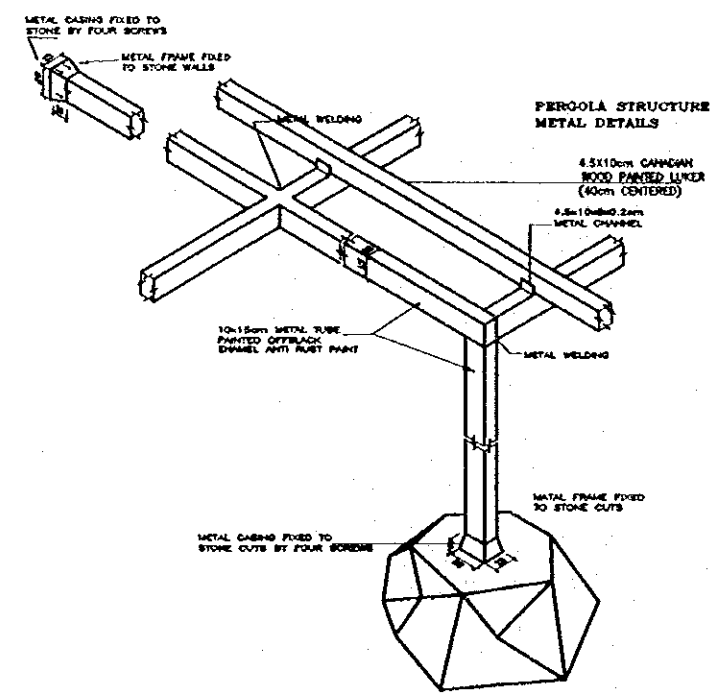
Drawing No.:
LOP.L-004



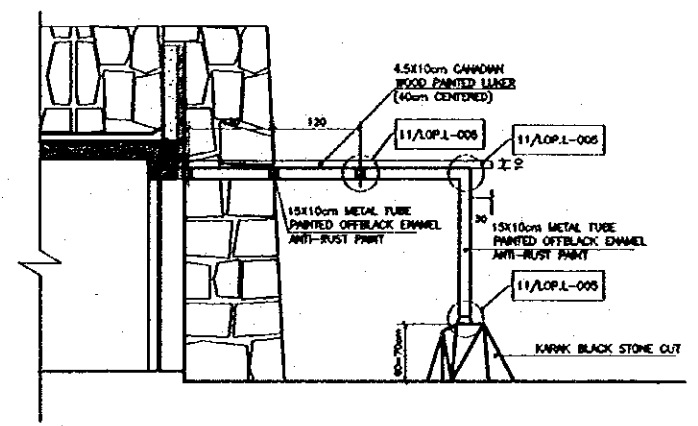
9 SECTION (9-9)
SCALE = 1:10



10 PERGOLA DETAIL
SCALE = 1:100



11 PERGOLA DETAIL
SCALE = 1:20



12 SECTION (1)
SCALE = 1:20

12 PERGOLA DETAIL
SCALE = 1:20

Project:
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

Executing Agency
The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:
Karak Tourism Development Project
Lower Observation Point

Note:
This detailed design has been executed by
a team of consultants as shown below in
accordance with the agreement between
Japan International Cooperation Agency
(JICA) and JICA Study Team.
The copyright of this drawing rests with
JICA.

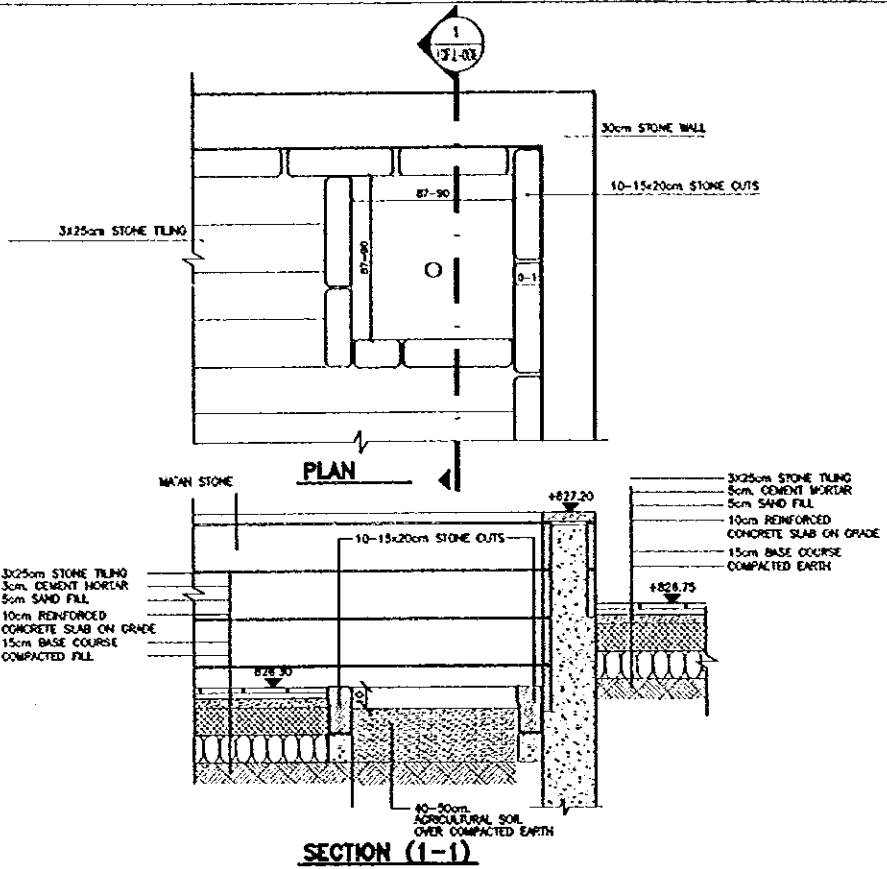
Designed by:
Japan International Cooperation
Agency (JICA)
JICA Study Team:
Joint Venture of
Pacific Consultants International and
Yamasita Sekkei Inc.
Subcontracted Local Consultant:

consolidated consultants
CONSULTING & ENVIRONMENTAL
Tel: 0112377 - Fax: 0112380 - AMMAN - JORDAN

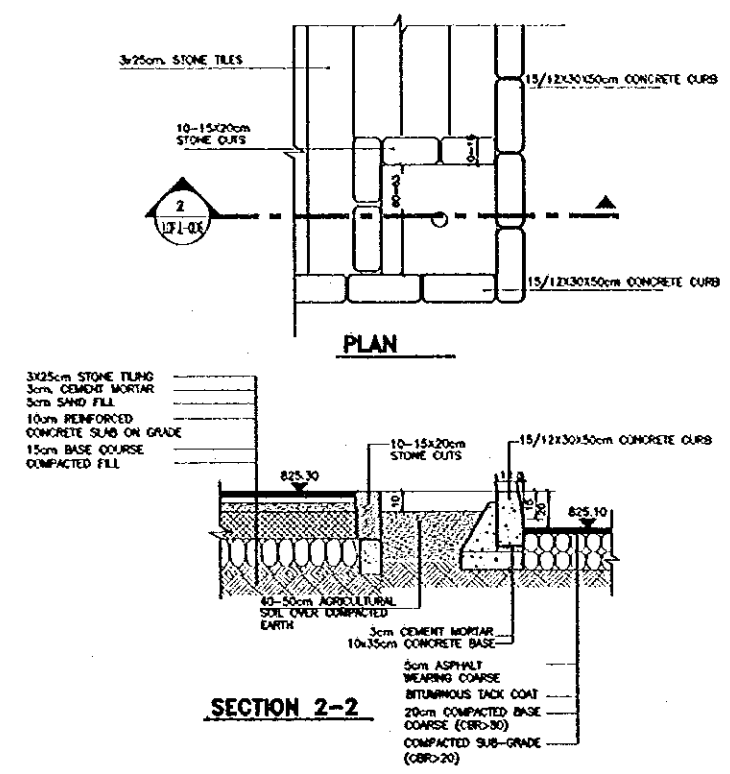
LANDSCAPE
DETAILS-3

Scale: AS SHOWN Drawing No.: LOP.L-005

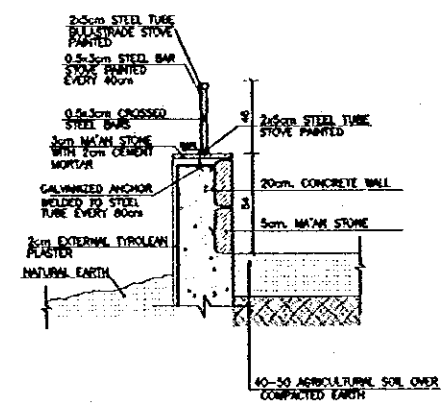
1.7.5



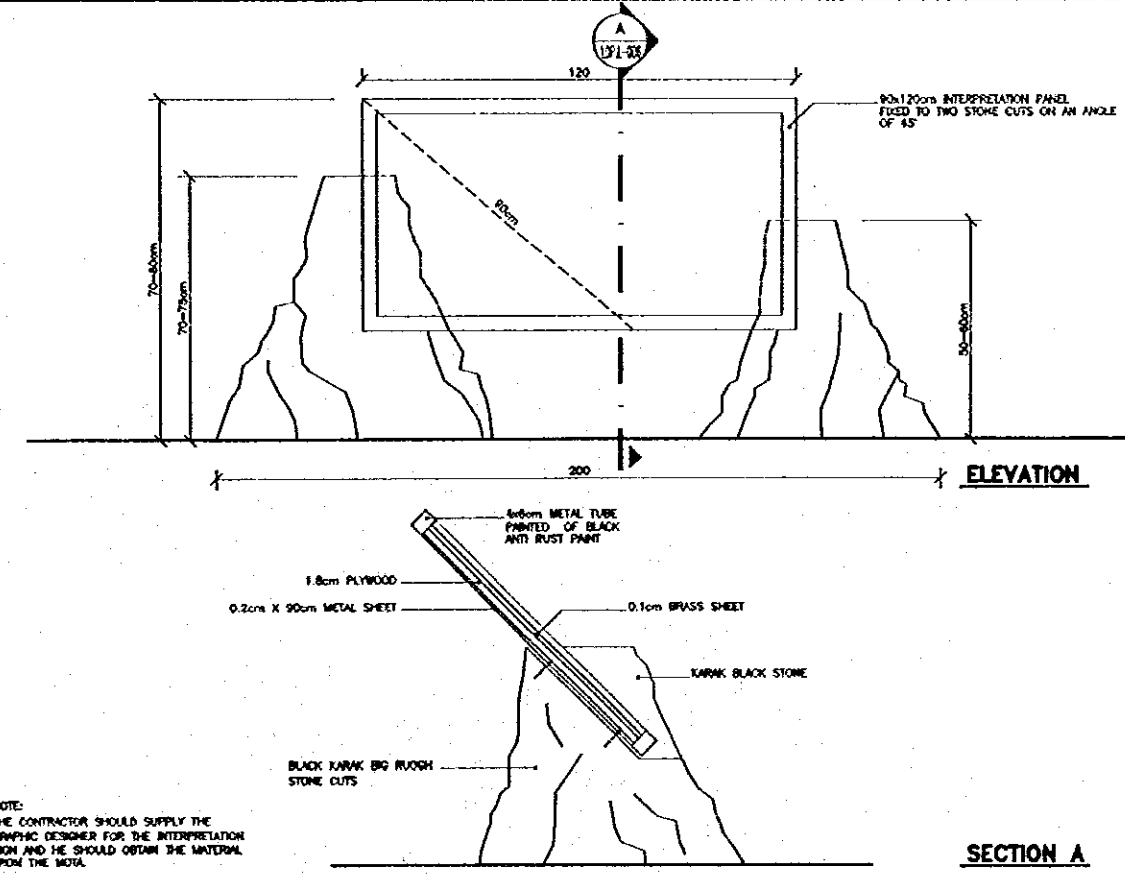
13 PLANTER DETAIL
SCALE = 1:20



14 PLANTER DETAIL
SCALE = 1:20



15 EXTERNAL WALL DETAIL
SCALE = 1:20



NOTE:
THE CONTRACTOR SHOULD SUPPLY THE GRAPHIC DESIGNER FOR THE INTERPRETATION SIGN AND HE SHOULD OBTAIN THE MATERIAL FROM THE MOUL.

16 INTERPRETATION SIGN DETAIL
SCALE = 1:10

Project:
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

Executing Agency
The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:
Karak Tourism Development Project
Lower Observation Point

Note:
This detailed design has been executed by a team of consultants as shown below in accordance with the agreement between Japan International Cooperation Agency (JICA) and JICA Study Team.
The copyright of this drawing rests with JICA.

Designed by:
Japan International Cooperation Agency (JICA)
JICA Study Team:
Joint Venture of Pacific Consultants International and Yamasato Sekkei Inc.
Subcontracted Local Consultant:

consolidated consultants
engineering & environment
Tel: 912277 - Fax: 912280 - AMM - JORDAN

LANDSCAPE
DETAILS-4

Scale: AS SHOWN
Drawing No: LOP.L-006

CODE OF PRACTICE

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

DIMENSIONS

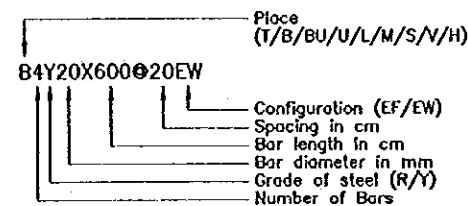
All Dimensions are in Centimetres.

DRAWINGS

- Structural drawings shall be read in conjunction with Architectural, Mechanical and Electrical drawings.
- Steeves and openings smaller than 200X200 mm are not shown on the Structural drawings. For required openings refer to Architectural, Mechanical and Electrical drawings.
- Contractor shall prepare working drawings and bar bending schedules for reinforcement in a format agreed with the engineer.
- Drawings are not necessarily to scale.
- Chamfers for fair faced concrete are not shown on Structural Drawings. Reference should be made to Architectural details for such purpose.

NOTATION

B = Bottom Bars
 BOF = Bottom Level of Footing
 BU = Bent Up Bars
 EF = Each Face
 EW = Each Way
 H = Horizontal Bars
 L = L shaped Top Bars
 M = Lacer bars at side faces
 R = Mild Steel Bars
 S = Stirrups
 SOG = Slab on Grade
 T = Top Bars
 TGB = Top Level of Grade Beams
 TOF = Top Level of Footing
 TSS = Top Level of Structural Slab
 U = U shaped Bars
 V = Vertical Bars
 Y = High Yield Bars



MARKING SYSTEM

An alphanumeric marking system is employed for structural members.

A member mark or detail mark is made up of one or two alphabetic characters followed by one or two numeric digits.

The alphabetic characters define a series of structural members. Members which fall in a series usually are of the same type or have the same or similar cross section. The character designation employed for member series is as follows:

Beams	—	B,D,E,H,J,K,L,M,N,O,U,V
Columns	—	C
Footings	—	F
Grade Beams	—	G
Ribbed Slabs	—	J&R
Solid Slabs	—	P
Stairs	—	S
Strip Footings	—	T
Wall Beams	—	W
Sections	—	X,Y&Z

REINFORCED CONCRETE

The following two types of reinforced concrete shall be employed:

C25 - Grade 25 for all reinforced concrete members

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

C25 - 25 MPa

Minimum cement content, per cubic metre, shall be:

C25 - 300 kilograms

Maximum water-cement ratio shall be:

C25 - 0.60

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 - 0.65

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.

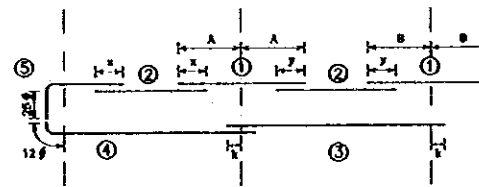
STRUCTURAL STEEL WORKS

- ALL STRUCTURAL STEEL WORK SHALL BE EXECUTED IN ACCORDANCE WITH BS 449 .
- STRUCTURAL STEEL SHALL BE OF AT LEAST QUALITY 43 AND IN ACCORDANCE WITH BS 4360 .
- BOLTS AND NUTS SHALL BE GALVANIZED OF AT LEAST QUALITY 8.8 IN ACCORDANCE WITH BS 3692 .
- ALL WELDING SHALL BE DONE ACCORDING TO BS 5135 BY QUALIFIED WELDERS .
- ALL MEASURES FOR THE STRUCTURAL STEEL SHALL BE VERIFIED BY FIELD MEASUREMENT BEFORE FABRICATION .
- ALL STRUCTURAL STEEL SHALL BE SHOP PAINTED WITH PRIMER SUITABLE AS UNDER LAYER FOR SUBSEQUENT TREATMENT ACCORDING TO SPECIFICATIONS .
- PAINTED SURFACES DESTROYED BY FIELD WELDING OR OTHER REASONS SHALL BE WIRE BRUSHED AND RE-PAINT WITH SAME TREATMENT AS ADJACENT SURFACES PLUS ONE EXTRA COAT .
- ALL WELDS ARE 6mm FILLET WELDS OR OTHERWISE STATED .

REINFORCEMENT

- 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.
- Bars of 6 and 8 millimetres diameter shall be of mild steel of Characteristic Strength equal to:
 $f_y=280$ MPa.
- Reinforcement shall comply with BS4449 , BS4461 or BS4483
- Reinforcement shall be placed as shown on the drawings and in the lengths specified.
- 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.
- Bar crank shall not exceed 1:12.

PLACEMENT RULES FOR BEAM REINFORCEMENT



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

- Top bars at interior supports shall be placed centrally on the support axis lines, for approximately equal span.
- Top bars in spans shall be placed to top equal lengths with support top bars at both left and right.
- Bottom bars in interior spans shall be placed to extend equal lengths beyond support centerlines at both left and right.
- 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.
- L bars as top reinforcement at exterior supports shall extend 25 times the bar size beyond the bend.

FOUNDATIONS

The Foundations are designed for allowable bearing capacity equal to 200 KPa .

Foundation level not less than 1.5m from finish floor level .

It is the responsibility of the Contractor to ensure that this bearing capacity is achieved at site with respect to the location of footing .

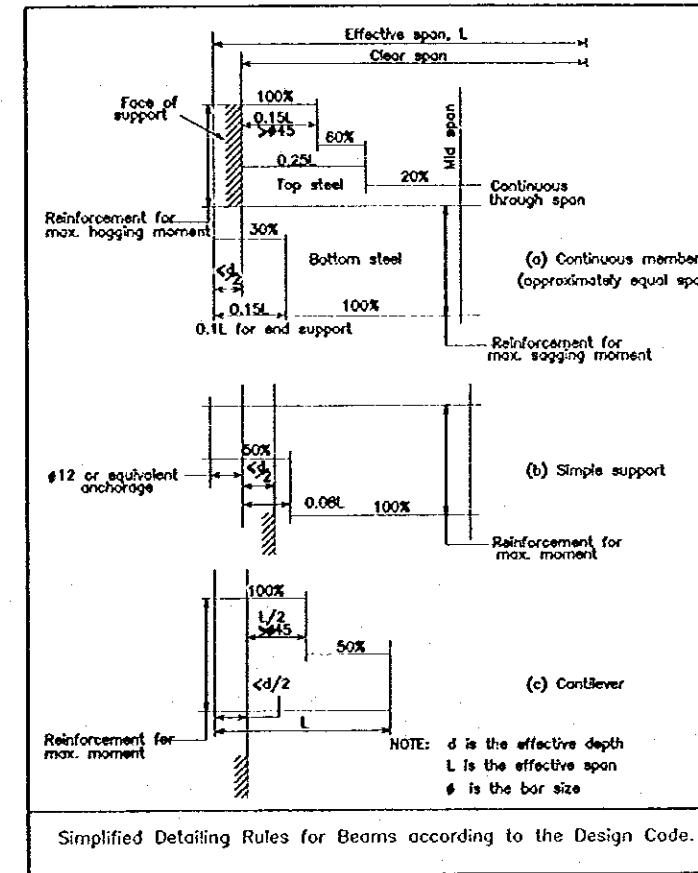
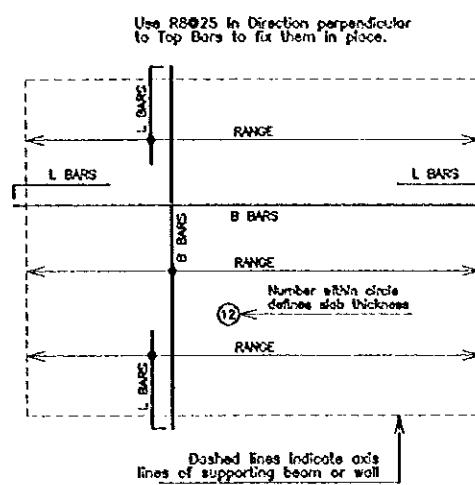
EXCAVATION & BACK FILLING

Back filling should be compacted on layers not more than 20cm thick to not less than 95% compaction ratio of the max. dry density of the modified proctor test .

BASEMENT WALL

It is not allowed to back fill behind basement walls and water tank walls before casting the concrete slab and removed of formwork .

Notation Employed for Solid Slab Panels



Project:
 Tourism Sector Development Project
 in the Hashemite Kingdom of Jordan

Executing Agency
 The Ministry of Tourism and Antiquities
 The Ministry of Planning

SUB-PROJECT:
 Karak Tourism Development Project

Note:
 This detailed design has been executed by a team of consultants as shown below in accordance with the agreement between Japan International Cooperation Agency (JICA) and JICA Study Team.
 The copyright of this drawing rests with JICA.

Designed by:
 Japan International Cooperation Agency (JICA)
 JICA Study Team:
 Joint Venture of
 Pacific Consultants International and
 Yamasita Sekkei Inc.
 Subcontracted Local Consultant:

consolidated consultants
 engineering & architectural
 Tel. 4612372 - Fax 4612380 - AMNH - JORDAN

GENERAL NOTES-1

Drawing Title:

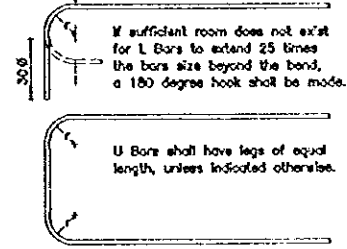
Scale:
 N.T.S.

Drawing No.:

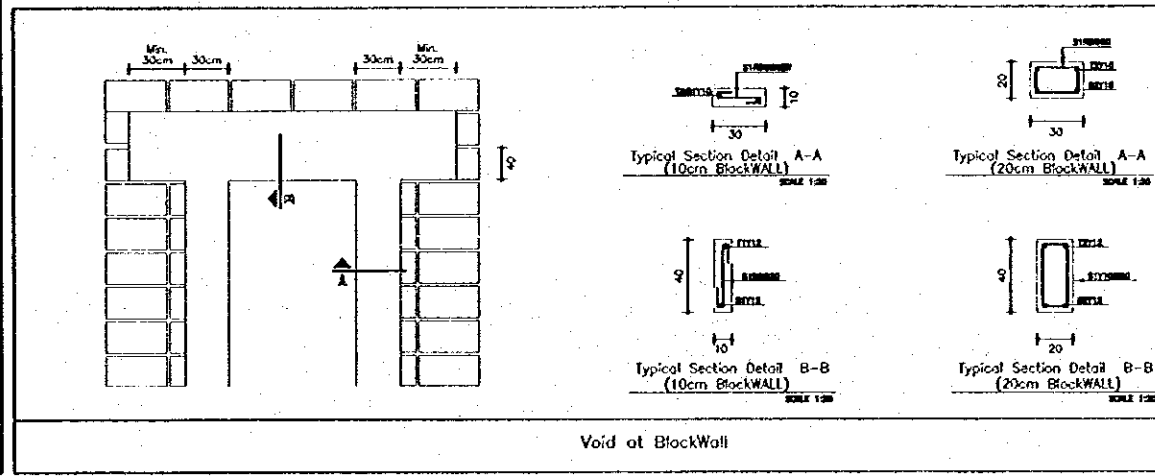
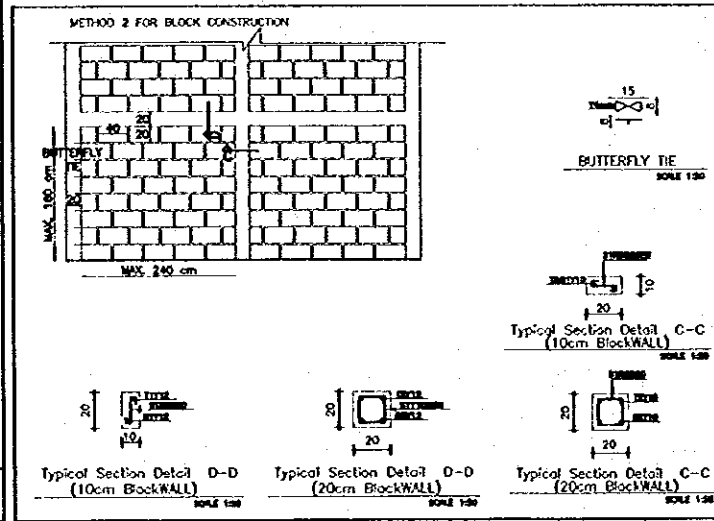
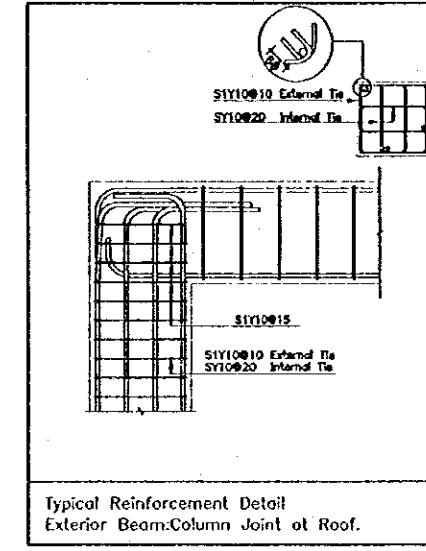
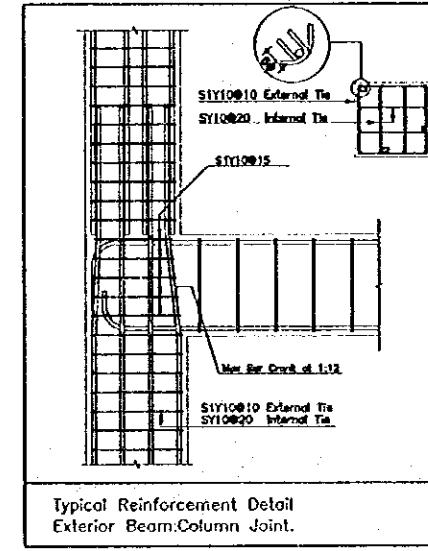
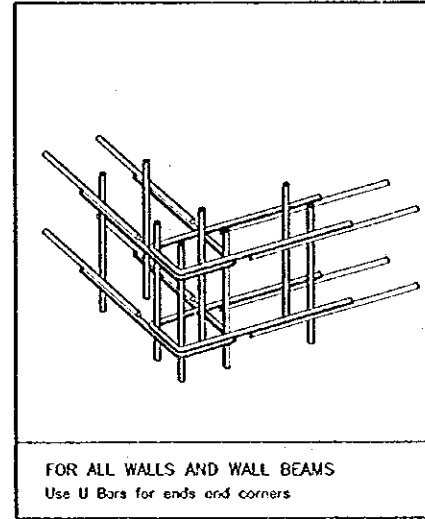
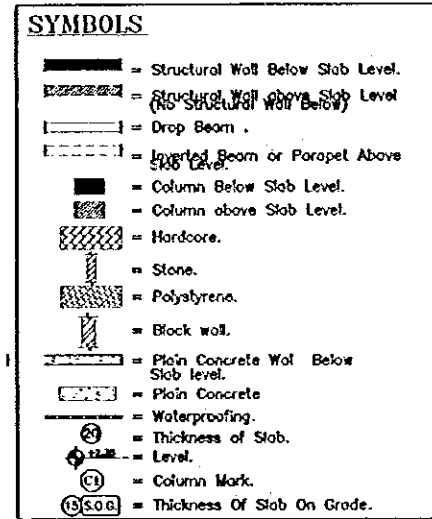
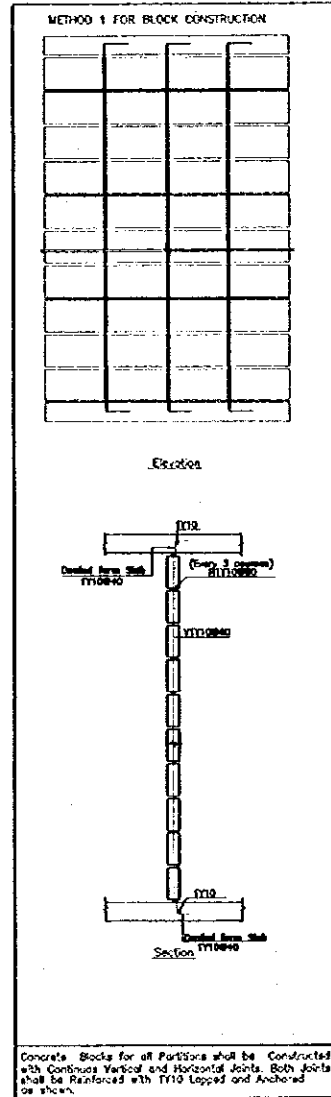
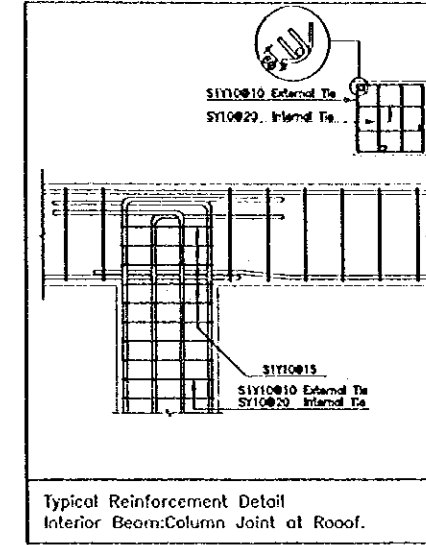
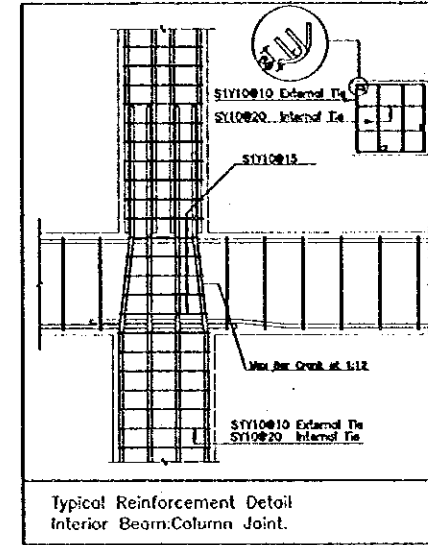
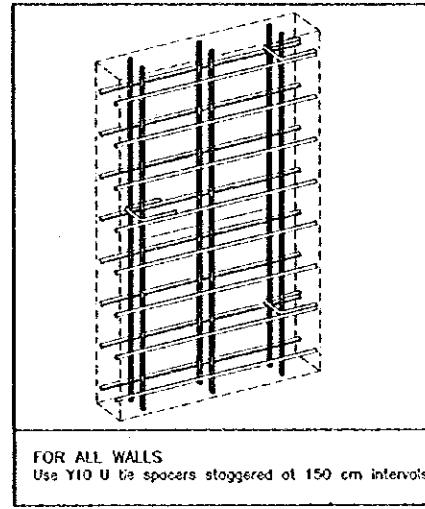
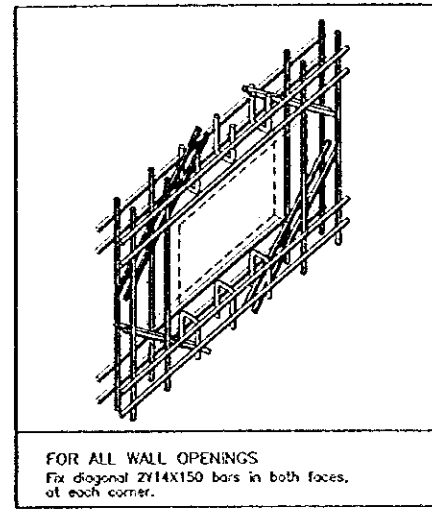
LOP-S-000b

RADI OF BENDING

Minimum Radius of Bend for L Bars and U Bars shall be as follows. For other bars, minimum radius of bend shall equal to 2 times bar size for MN Steel and 3 times bar size for High-yield Steel.



BAR DIAMETER (mm)	MINIMUM r (mm)
8	55
10	70
12	85
14	100
16	120
18	140
20	160
22	180
25	215
32	300



Concrete Blocks for all Partitions shall be constructed with continuous vertical and horizontal joints. Both joints shall be reinforced with T10 Lapped and Anchored on place.

Project: Tourism Sector Development Project in the Hashemite Kingdom of Jordan

Executing Agency: The Ministry of Tourism and Antiquities, The Ministry of Planning

SUB-PROJECT: Karak Tourism Development Project

Note: This detailed design has been executed by a team of consultants as shown below in accordance with the agreement between Japan International Cooperation Agency (JICA) and JICA Study Team. The copyright of this drawing rests with JICA.

Designed by: Japan International Cooperation Agency (JICA) JICA Study Team: Joint Venture of Pacific Consultants International and Yamasita Sekkel Inc.

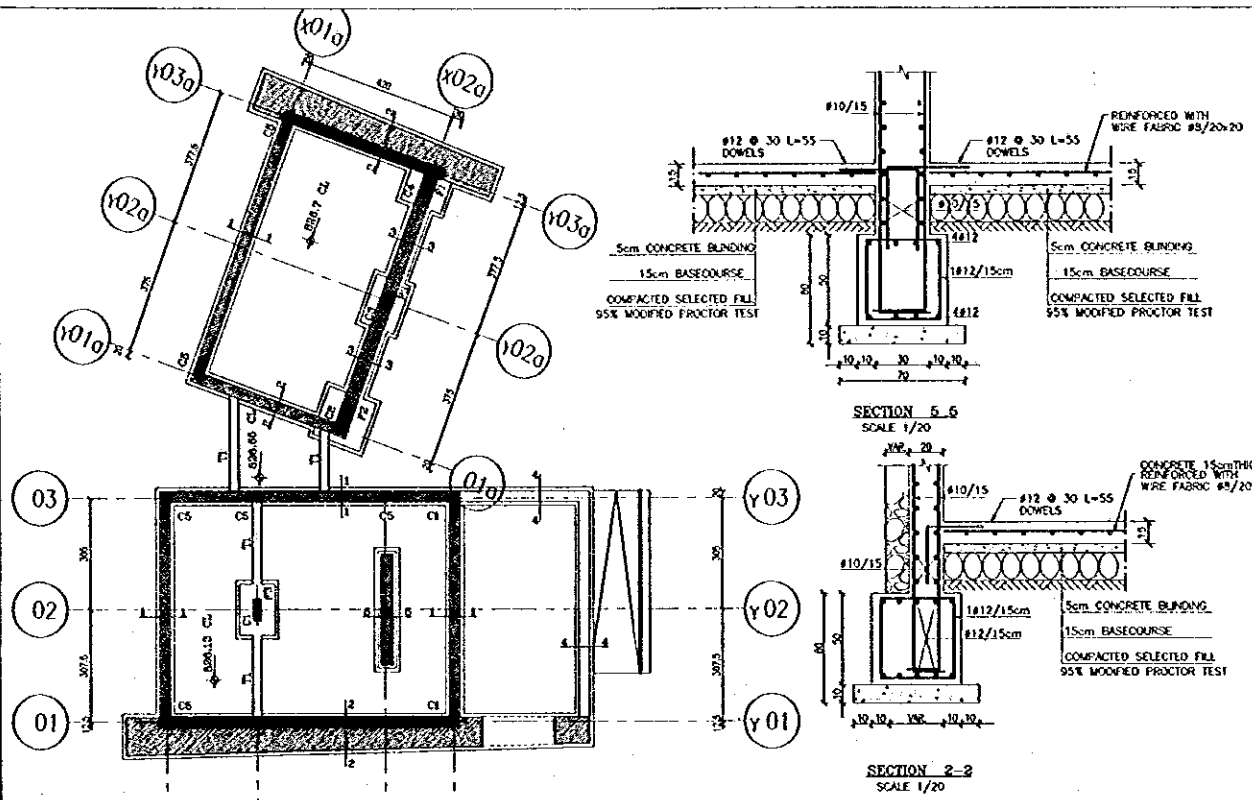
Subcontracted Local Consultant:

consolidated consultants ENGINEERING & ENVIRONMENT Tel: 4612377 - Fax: 4612365 - AMMAN - JORDAN

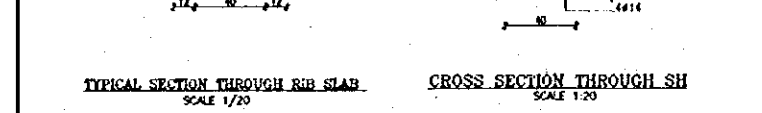
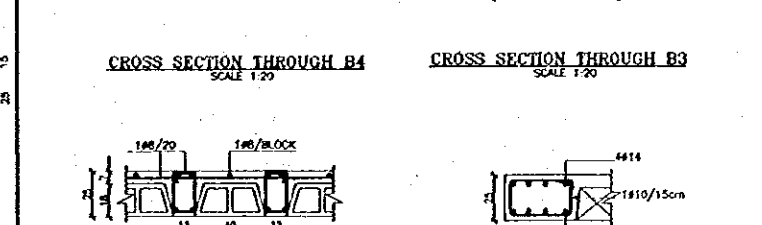
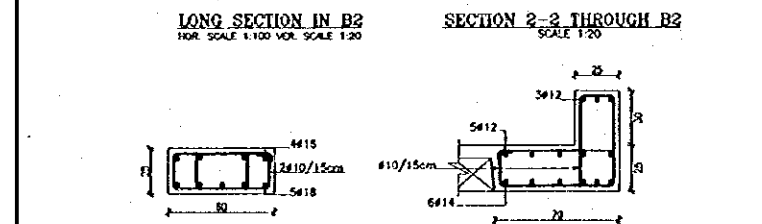
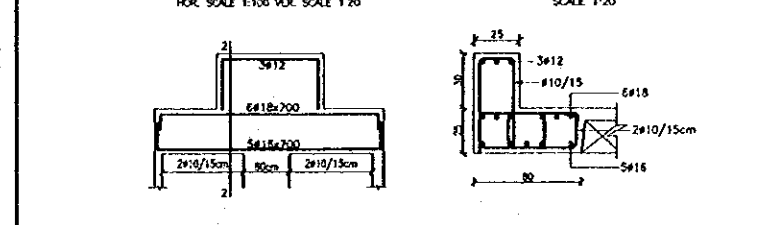
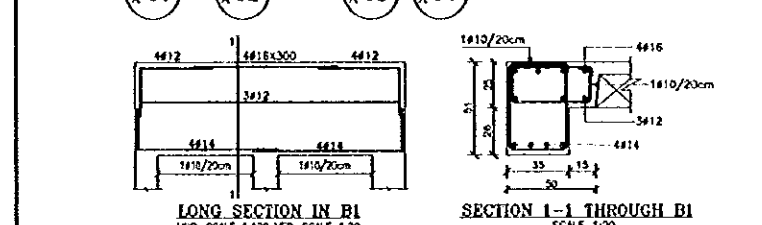
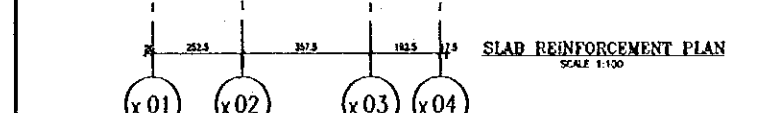
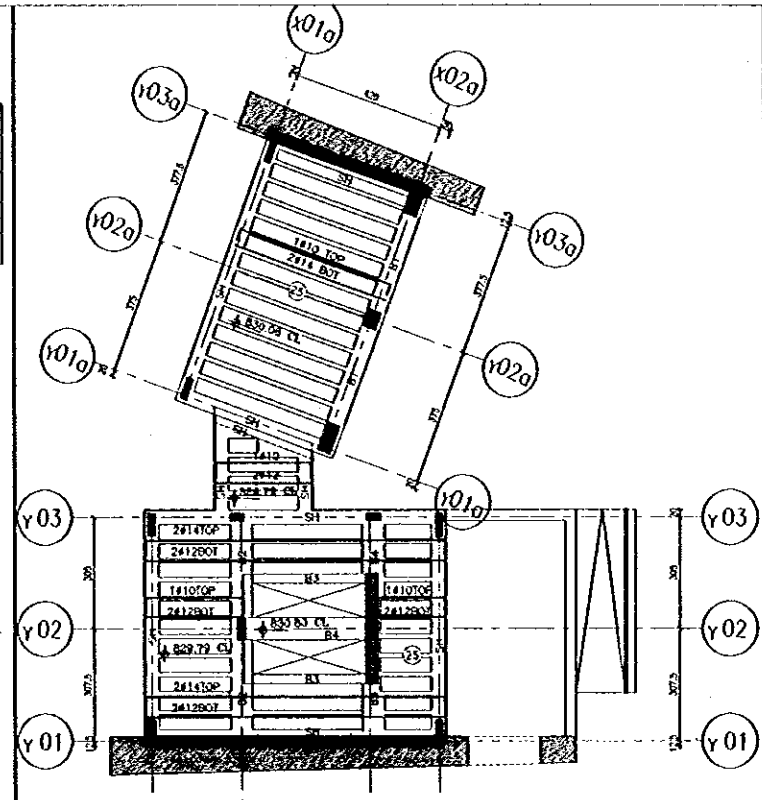
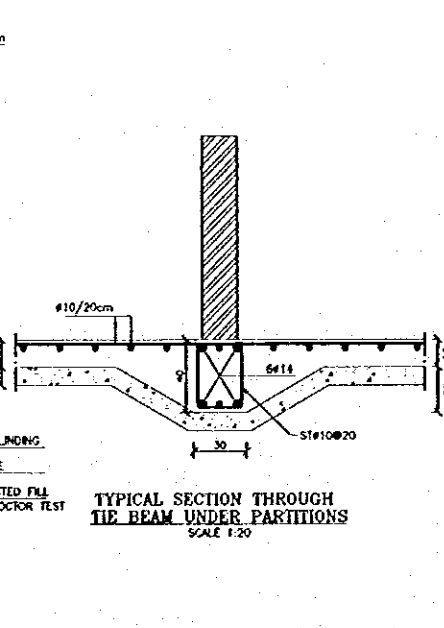
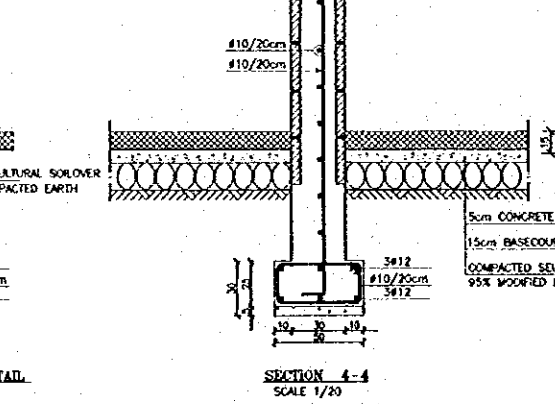
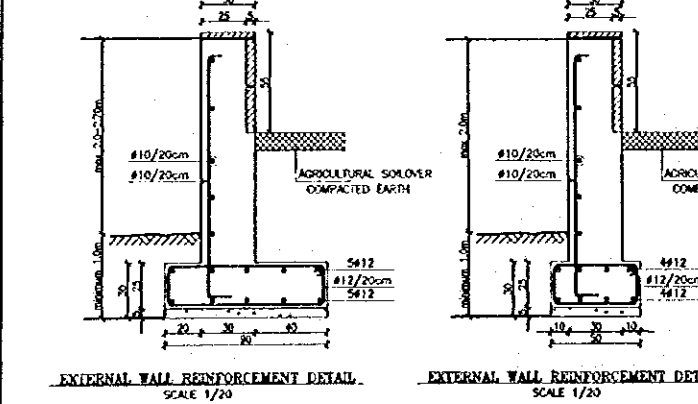
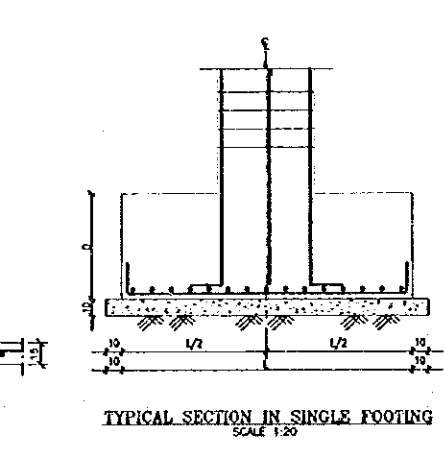
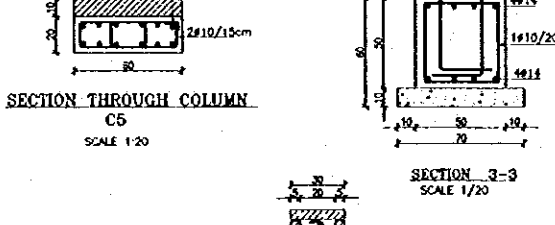
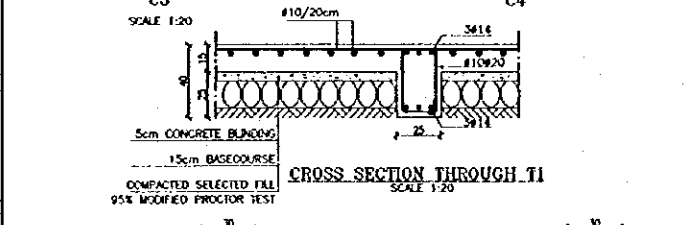
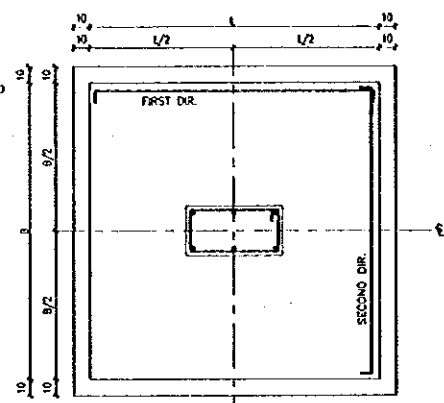
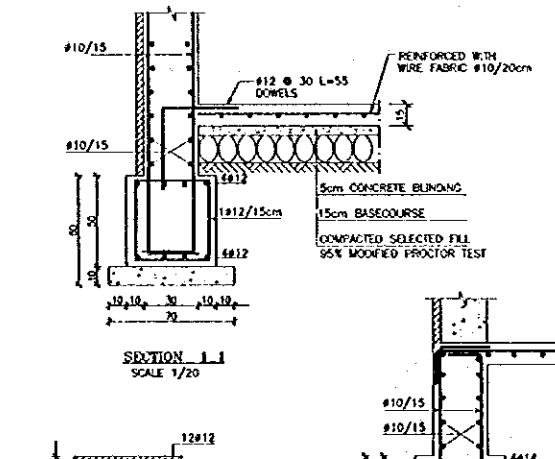
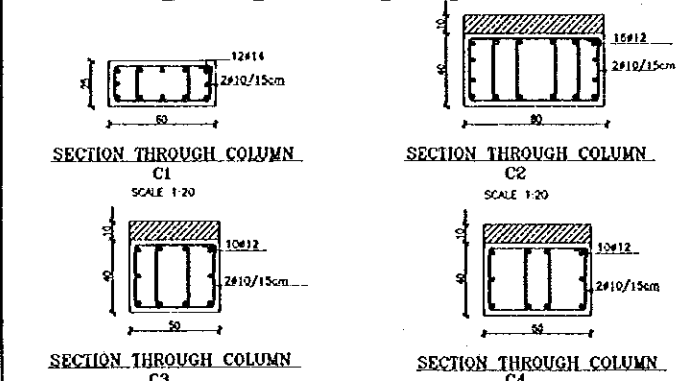
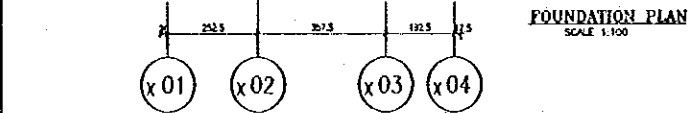
GENERAL NOTES-2

Drawing Title:

Scale: AS SHOWN Drawing No: LOP.S-006



FOOTING SCHEDULE					
FOOTING DESIGNATION	HEFT (cm) L X B	DEPTH (D) (cm)	PLAN (cm) L X B	FIRST DR. REAF	SECOND DR. REAF
F1	100x100	35	120x120	#12/15	#12/15
F2	120x120	35	140x140	#12/15	#12/15
F3	140x100	35	160x120	#12/15	#12/15



Project:
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

Executing Agency:
The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:
Karak Tourism Development Project
Lower Observation Point

Note:
This detailed design has been executed by a team of consultants as shown below in accordance with the agreement between Japan International Cooperation Agency (JICA) and JICA Study Team.
The copyright of this drawing rests with JICA.

STRUCTURAL NOTES :-

- CONCRETE STRENGTH AFTER 28 DAYS
- FOR BLINDING $f_{cu} = 115 \text{ N/mm}^2$
- FOR SLABS, BEAMS & COLUMNS AND SLAB ON GRADE $f_{cu} = 25 \text{ N/mm}^2$
- STEEL REINFORCEMENT :-
- #3 : BARS DENOTES PLAN MILD STEEL BARS $f_y = 280 \text{ N/mm}^2$ OTHER BARS DENOTES DEFORMED HIGH TENSILE BARS $f_y = 420 \text{ N/mm}^2$
- CLEAR CONCRETE COVER TO STEEL :-
- FOOTING ALL SIDE = 70mm
- SIDE BARS = 40mm
- TOP BARS = 30mm
- COLUMNS = 30mm
- FOUNDATION LEVEL WILL BE DECIDED ACCORDING TO SITE ENGINEER JUDGMENT, BUT IN ANY CASE NOT LESS THAN 1.0m FROM EXISTING GROUND.

Designed by:
Japan International Cooperation Agency (JICA)
JICA Study Team:
Joint Venture of Pacific Consultants International and Yamasita Sekkei Inc.

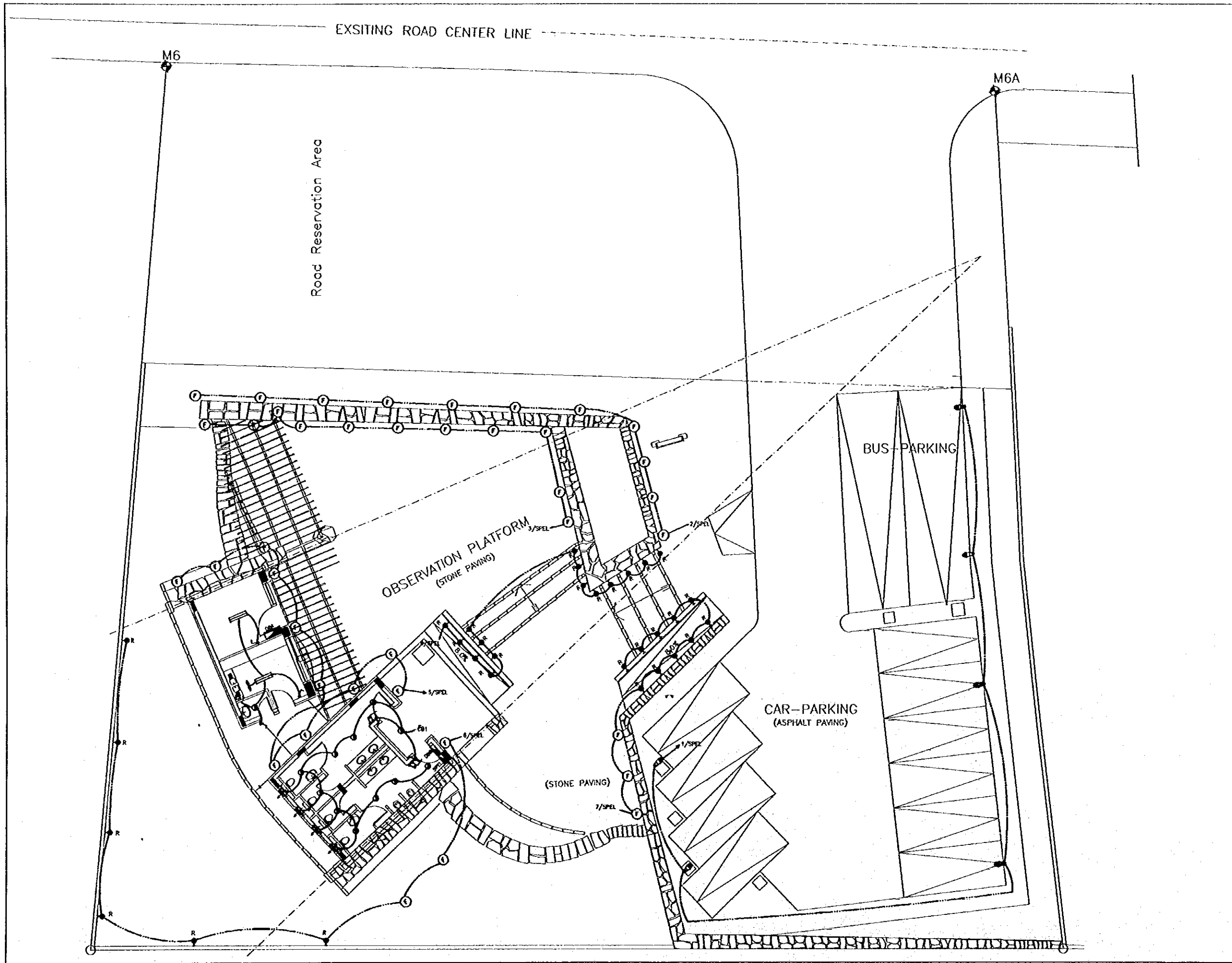
Subcontracted Local Consultant:
consolidated consultants
engineering & environment
Tel: 9612177 - Fax: 9612190 - AMMAN - JORDAN

STRUCTURAL DETAILS

Drawing Title: LOP.S-001

Scale: 1/20
1/10

Drawing No: LOP.S-001



Project:
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

Executing Agency
The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:
Karak Tourism Development Project
Lower Observation Point

Note:
This detailed design has been executed by a team of consultants as shown below in accordance with the agreement between Japan International Cooperation Agency (JICA) and JICA Study Team.
The copyright of this drawing rests with JICA.

LEGEND:

- 2.5m HEIGHT DECORATIVE STREET LIGHTING POLE WITH BALL SHAPE AND 70W SON LAMP(P1)
- R RECESSED WALL MOUNTED LIGHTING UNIT WITH 1X18W ENERGY SAVING LAMP(F1)
- ⊙ IP679 RECESSED IN FLOOR LIGHTING(S1) UNIT WITH 70W SON LAMP.
- 60W RECESSED SPOT LIGHT(S1)
- ≡ 2x40w FLUORESCENT LIGHTING UNIT WITH PRISMATIC DIFFUSER(F2)
- △ 13A SOCKET OUTLET(3 PIN) WITH SWITCH.
- △ DITTO BUT WATER PROOF.
- [HD] HAND DRYER.
- ⊕ ELECTRIC WATER HEATER.
- ⚡ DOUBLE POLE SWITCH WITH SIGNAL LAMP.
- ⊖ EXTRACT FAN.
- DIRECT BURIED ARMoured CABLE.
- WIRES OR CABLES IN CONDUIT EMBEDDED IN SLAB(φ20mm).

Designed by:
Japan International Cooperation Agency (JICA)
JICA Study Team:
Joint Venture of Pacific Consultants International and Yamasita Sekkei Inc.
Subcontracted Local Consultant:

consolidated consultants
Engineering & Environment
Tel: 9612577 - Fax: 9612280 - AMMAN - JORDAN

LIGHTING LAYOUT
Drawing Title:

Scale: 1/100 Drawing No: LOP.E-001

DISTRIBUTION PANEL BOARD

BUILDING : LOWER OBSERVATION LOCATION : W.C. PANEL REF. : DBB

VOLTAGE & FREQ. : 230V, 50Hz CABLE ENTRY : TOP & BOTTOM

DESIGNATION OF LOAD	NO. OF LOADS	WIRE SIZE (mm ²)	TRIP RATING
LIGHTING	2.5	10	10A
H.DRAVER	4	20	20A
H.DRAVER	4	20	20A
# HEATER	4	20	20A
SPARE		10	10A
SPARE		10	10A

TOTAL CONNECTED WATTS : 9000 → 50A, 30mA ELCB

	LIGHTING	HEATER	MISC.	TOTAL
CONNL. kW				
DEMAND FACT.				
DEMAND kW				

TOTAL CONNECTED LOAD : 9.00 kW
TOTAL DEMAND LOAD : 7.18 kW

DISTRIBUTION PANEL BOARD

BUILDING : LOWER OBSERVATION LOCATION : INFO KIOSK PANEL REF. : DBA

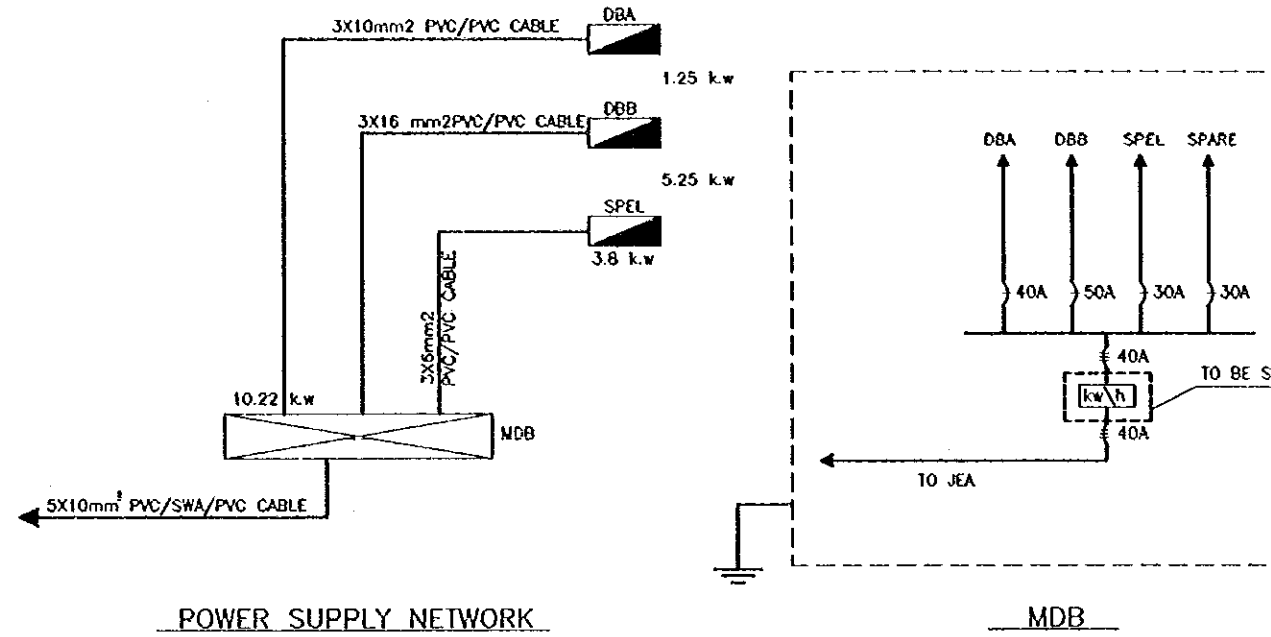
VOLTAGE & FREQ. : 230V, 50Hz CABLE ENTRY : TOP & BOTTOM

DESIGNATION OF LOAD	NO. OF LOADS	WIRE SIZE (mm ²)	TRIP RATING
LIGHTING	2.5	10	10A
S. OUTLET	2.5	15	15A
S. OUTLET	2.5	15	15A
S. OUTLET	2.5	15	15A
HEATER	4	20	20A
SPARE		10	10A

TOTAL CONNECTED WATTS : 4050 → 40A, 30mA ELCB

	LIGHTING	HEATER	MISC.	TOTAL
CONNL. kW				
DEMAND FACT.				
DEMAND kW				

TOTAL CONNECTED LOAD : 4.05 kW
TOTAL DEMAND LOAD : 3.23 kW



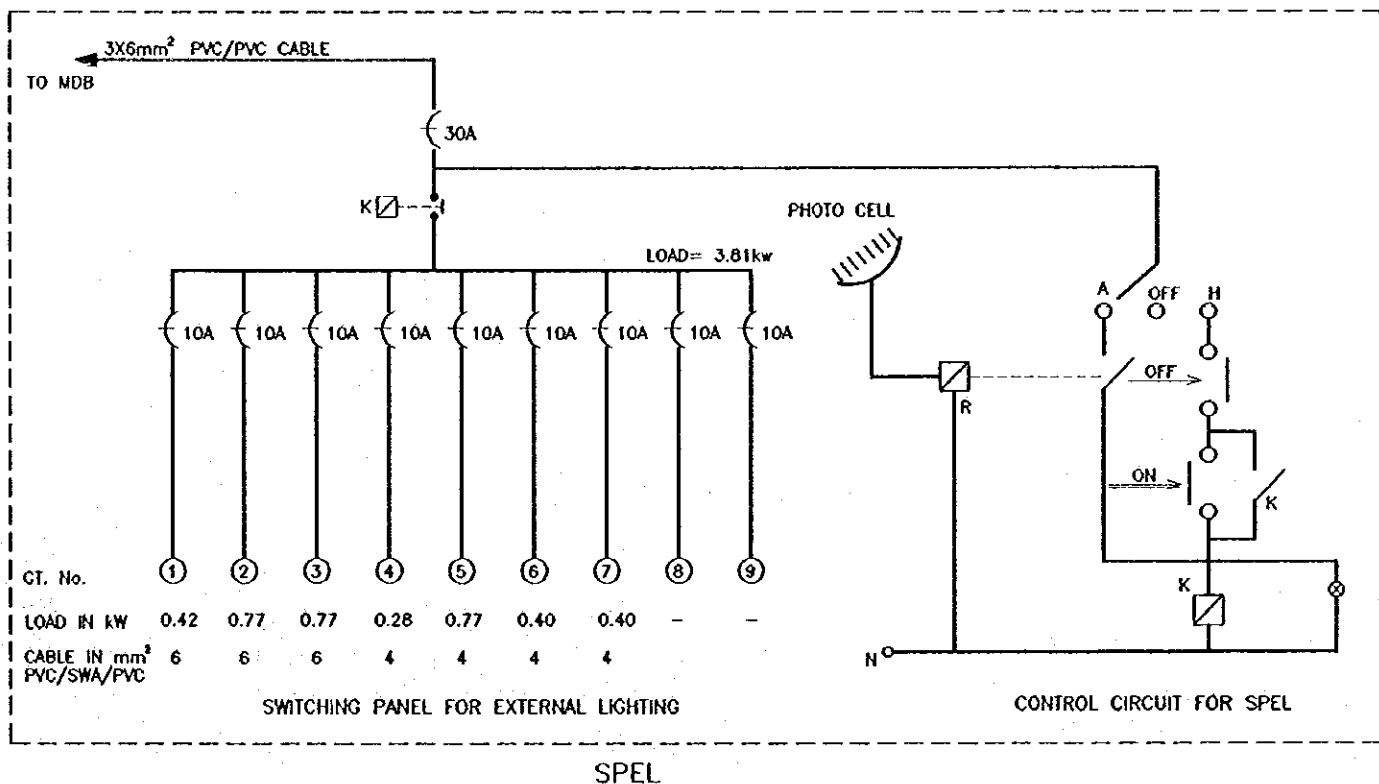
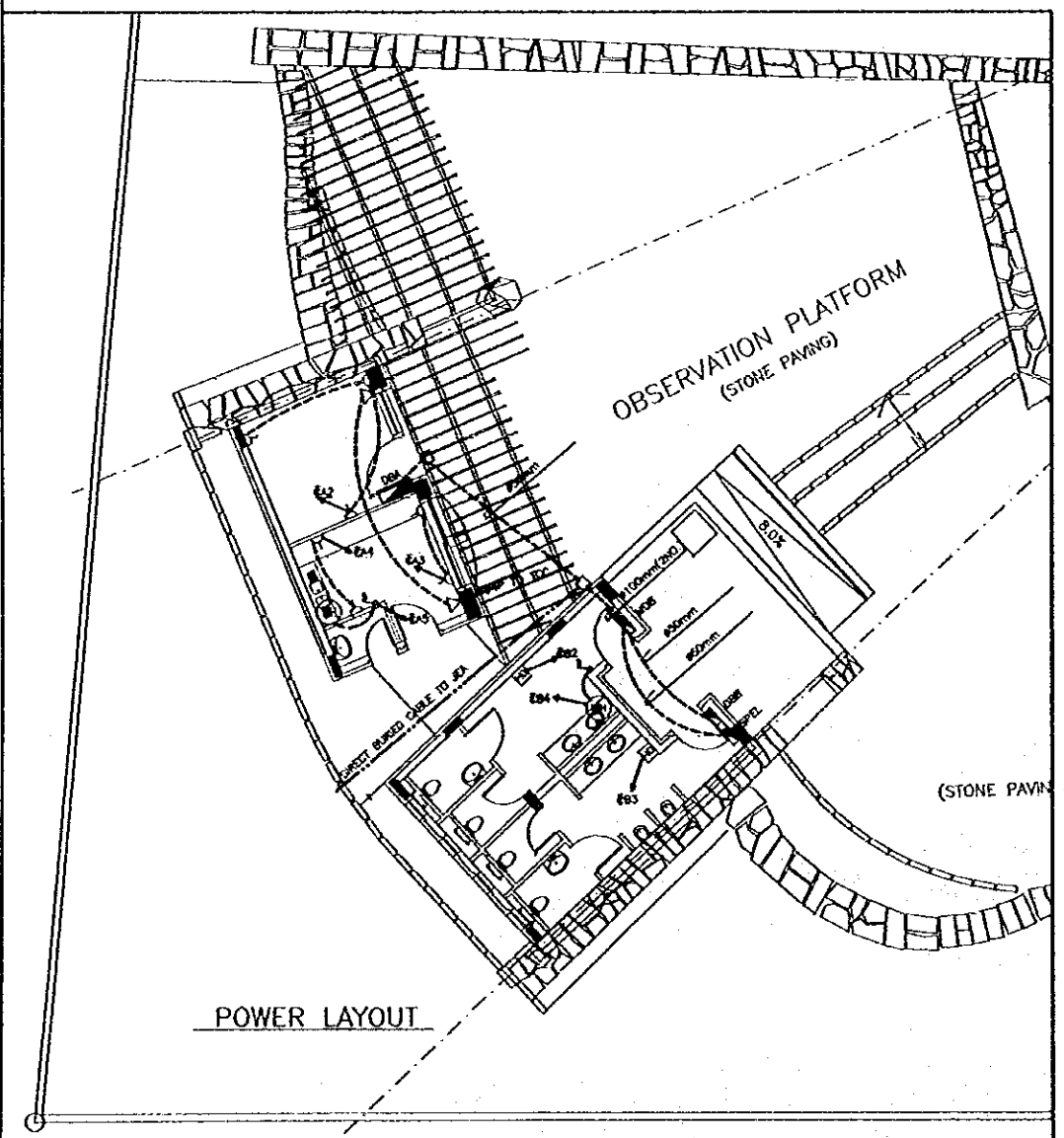
Project:
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

Executing Agency
The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:
Karak Tourism Development Project
Lower Observation Point

Note:
This detailed design has been executed by a team of consultants as shown below in accordance with the agreement between Japan International Cooperation Agency (JICA) and JICA Study Team. The copyright of this drawing rests with JICA.

- LEGEND**
- WIRES OR CABLE IN CONDUIT UNDER TILES #25mm (OTHERWISE INDICATED)
 - DIRECT BURIED CABLE
 - ▽ TELEPHONE SOCKET OUTLET
 - POWER MANHOLE (40x40x40)cm



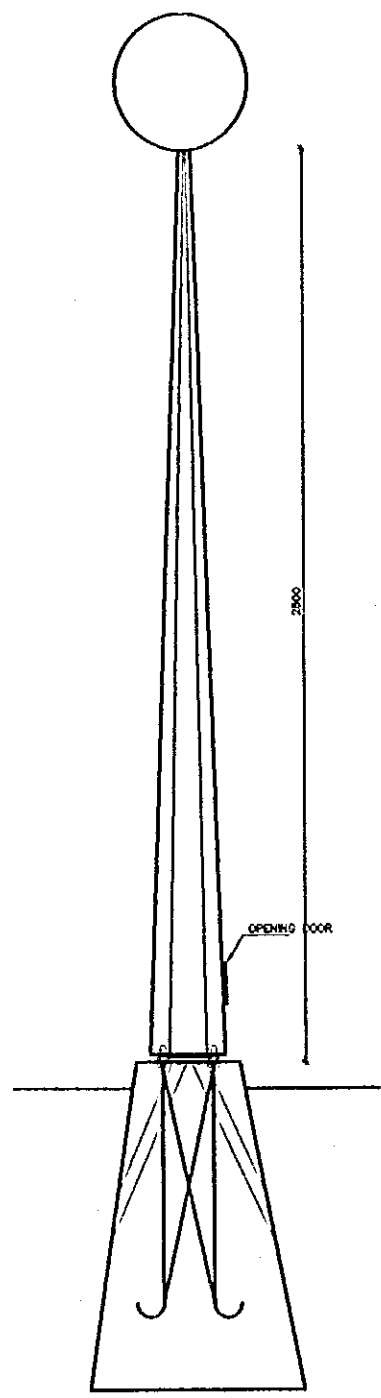
Designed by:
Japan International Cooperation Agency (JICA)
JICA Study Team:
Joint Venture of Pacific Consultants International and Yamasita Sekkei Inc.

Subcontracted Local Consultant:

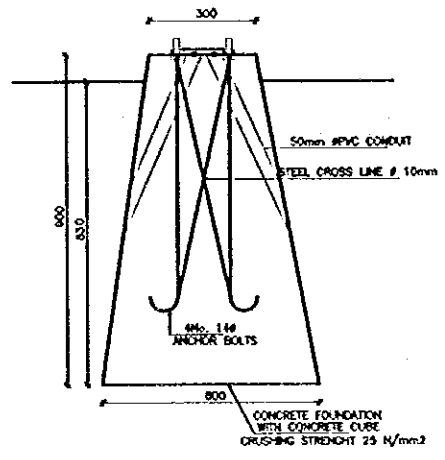
consolidated consultants
ENGINEERING & CONSULTANTS
Tel: 911277 - Fax: 911280 - AMMAN - JORDAN

POWER, TELEPHONE & ELECTRICAL PANELS

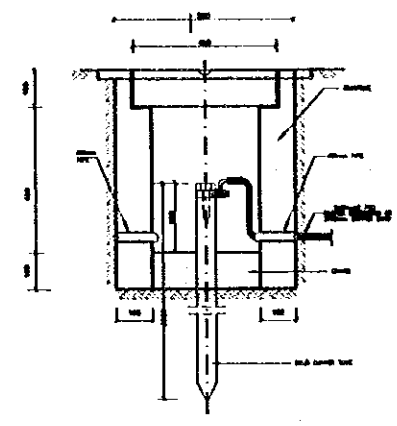
Scale: R1S Drawing No: LOP.E-002



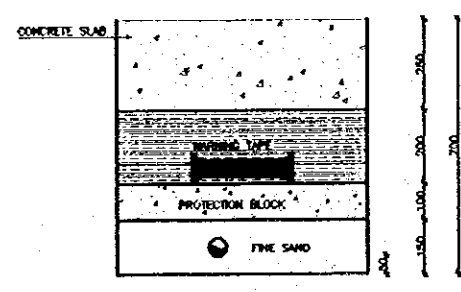
2.5m HIGH LIGHTING POLE
SCALE 1/10



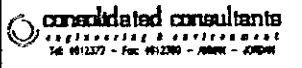
STREET LIGHTING BASE
SCALE 1/10



EARTHING DETAIL MANHOLE WITH COPPER ROD
SCALE 1/10

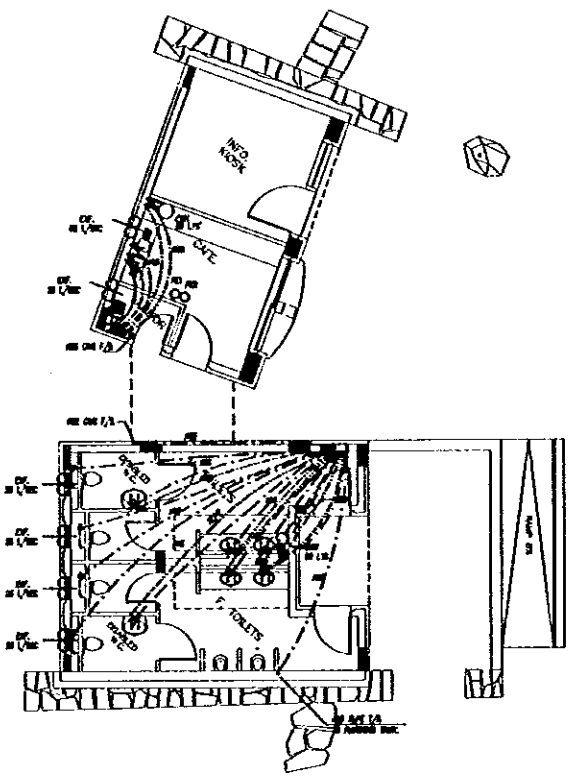


DIRECT BURIED CABLE DETAIL
SCALE 1/10

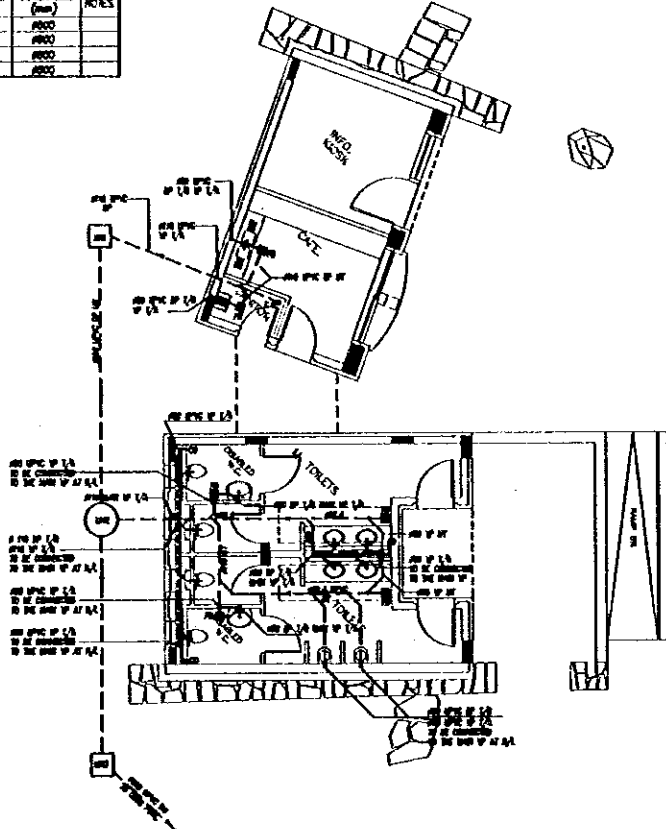
Project: Tourism Sector Development Project in the Hashemite Kingdom of Jordan	
Executing Agency The Ministry of Tourism and Antiquities The Ministry of Planning	
SUB-PROJECT: Karak Tourism Development Project Lower Observation Point	
Note: This detailed design has been executed by a team of consultants as shown below in accordance with the agreement between Japan International Cooperation Agency (JICA) and JICA Study Team. The copyright of this drawing rests with JICA.	
Designed by: Japan International Cooperation Agency (JICA) JICA Study Team: Joint Venture of Pacific Consultants International and Yamasita Sekkei Inc. Subcontracted Local Consultant:  1st: 0112377 - Fax: 0112380 - Address: JORDAN	
ELECTRICAL DETAILS	
Drawing Title:	
Scale: 1/10	Drawing No.: LOP.E-003

0112377

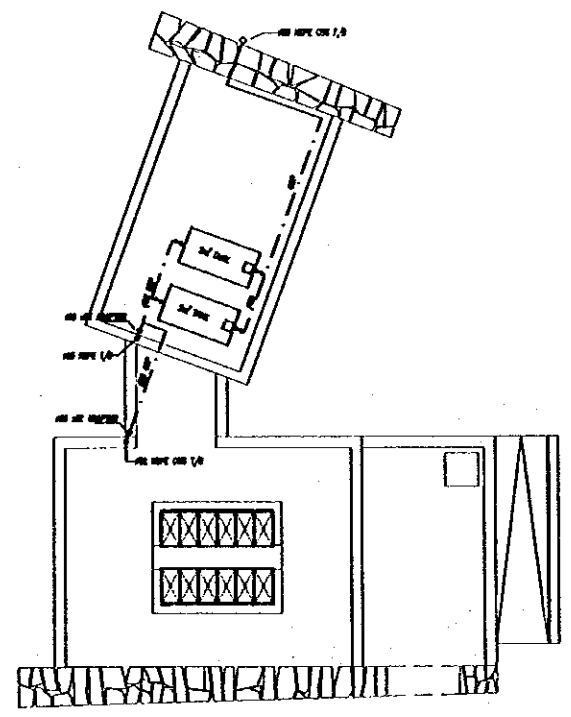
MANHOLE SCHEDULE						
No.	COVER LEVEL (m)	INVERT LEVEL (m)	MANHOLE DEPTH (mm)	MANHOLE SIZE (mm)	COVER SIZE (mm)	NOTES
MP1	828.00	825.40	800	800x800	800	
MP2	828.00	825.00	700	800x800	800	
MP3	828.00	824.82	1000	800	800	
MP4	828.00	824.70	1300	800	800	



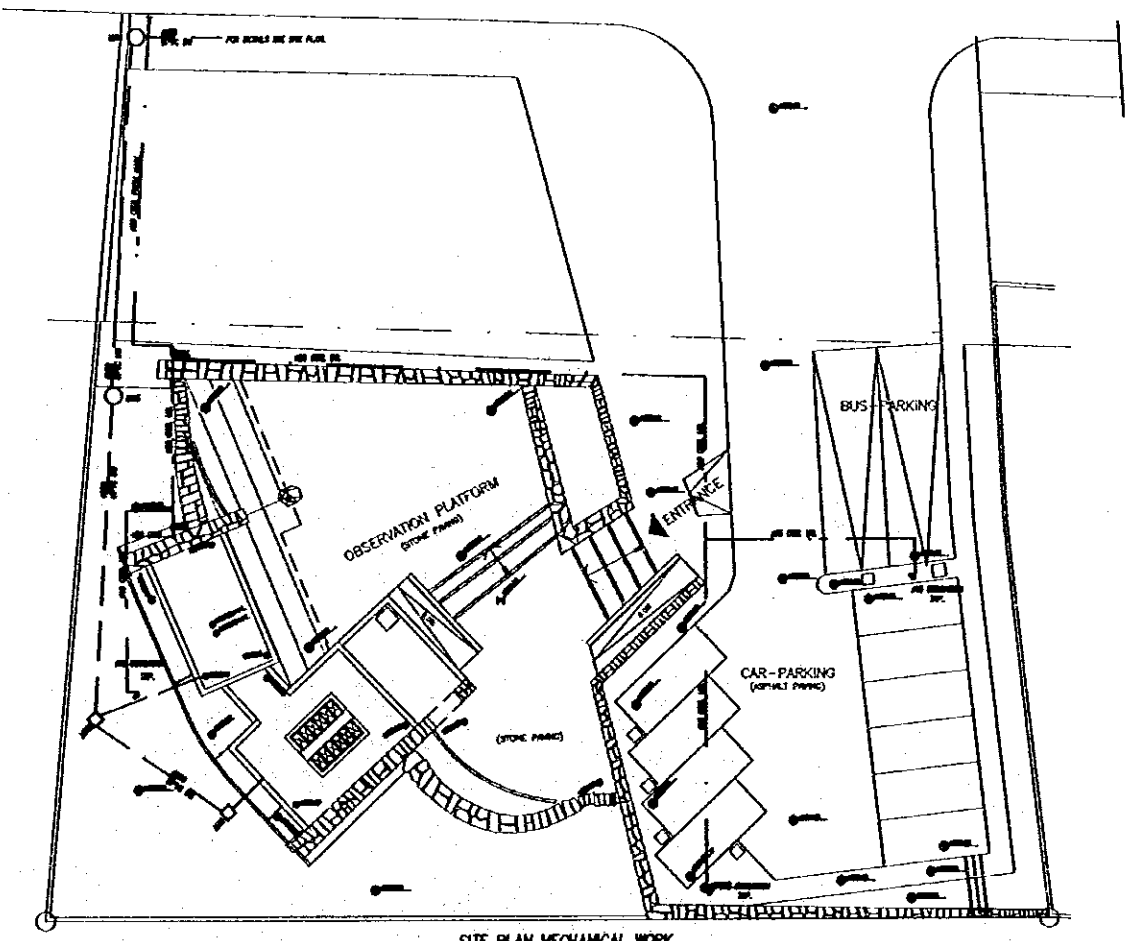
GROUND FLOOR PLAN WATER DISTRIBUTION LAYOUT (1/200)



GROUND FLOOR PLAN DRAINAGE LAYOUT (1/200)



ROOF PLAN WATER DISTRIBUTION LAYOUT (1/200)



SITE PLAN MECHANICAL WORK (1/200)

Project:
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

Executing Agency:
The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:
Karak Tourism Development Project
Lower Observation Point

Note:
This detailed design has been executed by a team of consultants as shown below in accordance with the agreement between Japan International Cooperation Agency (JICA) and JICA Study Team.
The copyright of this drawing rests with JICA.

F21 FIRE EXTINGUISHER 8kg (80%)
F22 FIRE EXTINGUISHER 8kg (20%)
CP CONCRETE PIPE
BW WATER AUTHORITY OF JORDAN

SYMBOLS:

- ☐ STRAINER
- ⊕ FLOOR DRAIN
- CLEAN OUT
- DRAIN PIPE
- COLD WATER SUPPLY
- DRAIN PIPE
- HOT WATER SUPPLY

GENERAL NOTES:

- ALL DRAINAGE PIPES SHALL BE UPVC CLASS IN BAR
- ALL UNDER TILE DOMESTIC WATER PIPES SHALL BE UPVC UNLESS OTHERWISE STATED.
- ALL MANHOLE COVERS SHALL BE METAL DUCT.
- EXTRACT FANS SHALL BE ACCOMPANIED WITH AUTOMATIC SHUTTER.
- CONTRACTOR SHALL COMPLY WITH BWJ REGULATIONS FOR MANHOLE PIPE CROSSING THE STREET, ETC.
- CONTRACTOR SHALL COORDINATE ALL HIS WORKS WITH BWJ PRIOR TO INSTALLATION.

Designed by:
Japan International Cooperation Agency (JICA)
JICA Study Team:
Joint Venture of Pacific Consultants International and Yamasita Sekkei Inc.

Subcontracted Local Consultant:

consolidated consultants
Engineering & Environment
Tel: 9612277 - Fax: 9612288 - AMM - 23886

Drawing Title:
MECHANICAL WORKS

Scale:
AS SHOWN

Drawing No.:
LOP.M-001

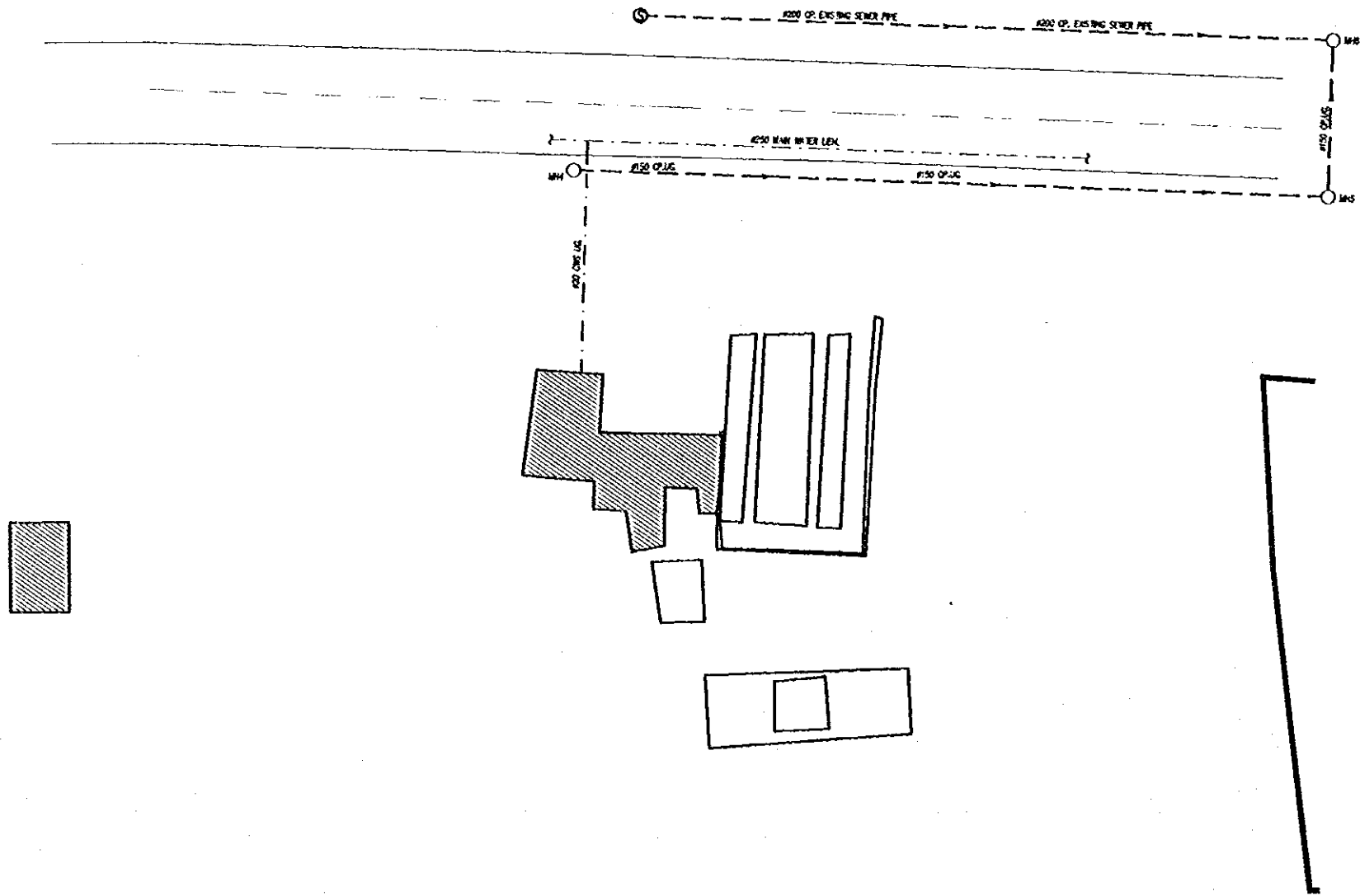
Project:
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

Executing Agency
The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:
Karak Tourism Development Project
Lower Observation Point

Note:
This detailed design has been executed by a team of consultants as shown below in accordance with the agreement between Japan International Cooperation Agency (JICA) and JICA Study Team.
The copyright of this drawing rests with JICA.

MANHOLE SCHEDULE						
No.	CURB LEVEL (m)	INVERT LEVEL (m)	MANHOLE DEPTH (m)	MANHOLE SIZE (mm)	COVER SIZE (mm)	NOTES
MH1	825.18	824.15	1.03	900	900	
MH2	825.43	823.81	1.62	900	900	
MH3	826.02	824.72	1.30	900	900	



LEGEND:

MH MANHOLE
UPVC UNPLASTICIZED POLYVINYL CHLORIDE
UG UNDER GROUND
UT UNDER UTILITY
DP DRAIN PIPE
CWS COLD WATER SUPPLY
CP CONCRETE PIPE
WAJ WATER AUTHORITY OF JORDAN

SYMBOLS:

--- DRAIN PIPE
--- DRAIN PIPE

GENERAL NOTES:

- ALL DRAINAGE PIPES SHALL BE UPVC CLASS M DR UNLESS OTHER WERE STATED.
- CONTRACTOR SHALL COMPLY WITH WAJ REGULATIONS FOR MANHOLES, PIPE CROSSING THE STREET, ETC.
- CONTRACTOR SHALL COORDINATE ALL HIS WORKS WITH WAJ PRIOR TO INSTALLATION.
- MAIN WATER PIPE SHALL BE INSTALLED AT 800mm BELOW GROUND LEVEL.

Designed by:
Japan International Cooperation Agency (JICA)
JICA Study Team:
Joint Venture of Pacific Consultants International and Yamasita Sekkei Inc.
Subcontracted Local Consultant:

consolidated consultants
PROFESSIONAL CONSULTANTS
TEL: 912277 - FAX: 912289 - AMMAN - JORDAN

SITE PLAN DRAINAGE LAYOUT.

Drawing Title:

Scale: 1/200

Drawing No.: LOP.M-002

KARAK TOURISM DEVELOPMENT PROJECT VISITORS CENTER

JUNE 2000

LIST OF DRAWINGS

ARCHITECTURAL DRAWINGS

Dwg. No.	DRAWING TITLE	SCALE
VC.A-000	LIST OF DRAWINGS	N.T.S.
VC.A-001	SITE PLAN	1:100
VC.A-002	EXISTING PLAN, ELEVATIONS & SECTIONS	1:100
VC.A-003	PROPOSED PLAN	1:50
VC.A-004	PROPOSED INTERNAL ELEVATIONS (SECTIONS)	1:50
VC.A-005	FURNITURE PLAN & EQUIPMENT LIST	1:50
VC.A-006	REFLECTED CEILING PLAN	1:50
VC.A-007	ARCHITECTURAL DETAILS-1	1:5 , 1:10
VC.A-008	ARCHITECTURAL DETAILS-2	1:5,1:10,1:20
VC.A-009	ARCHITECTURAL DETAILS-3	1:1,1:2,1:10
VC.A-010	ARCHITECTURAL DETAILS-4	1:1,1:10,1:50

ELECTRICAL DRAWINGS

Dwg. No.	DRAWING TITLE	SCALE
VC.E-001	ELECTRICAL WORKS	1:100

MECHANICAL DRAWINGS

Dwg. No.	DRAWING TITLE	SCALE
VC.M-001	MECHANICAL WORKS	1:100
VC.M-002	MECHANICAL DETAILS	N.T.S.
VC.M-003	MECHANICAL DETAILS	N.T.S.


Project:
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

Executing Agency
The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:
Karak Tourism Development Project
Visitors Center

Note:
This detailed design has been executed by
a team of consultants as shown below in
accordance with the agreement between
Japan International Cooperation Agency
(JICA) and JICA Study Team.
The copyright of this drawing rests with
JICA.

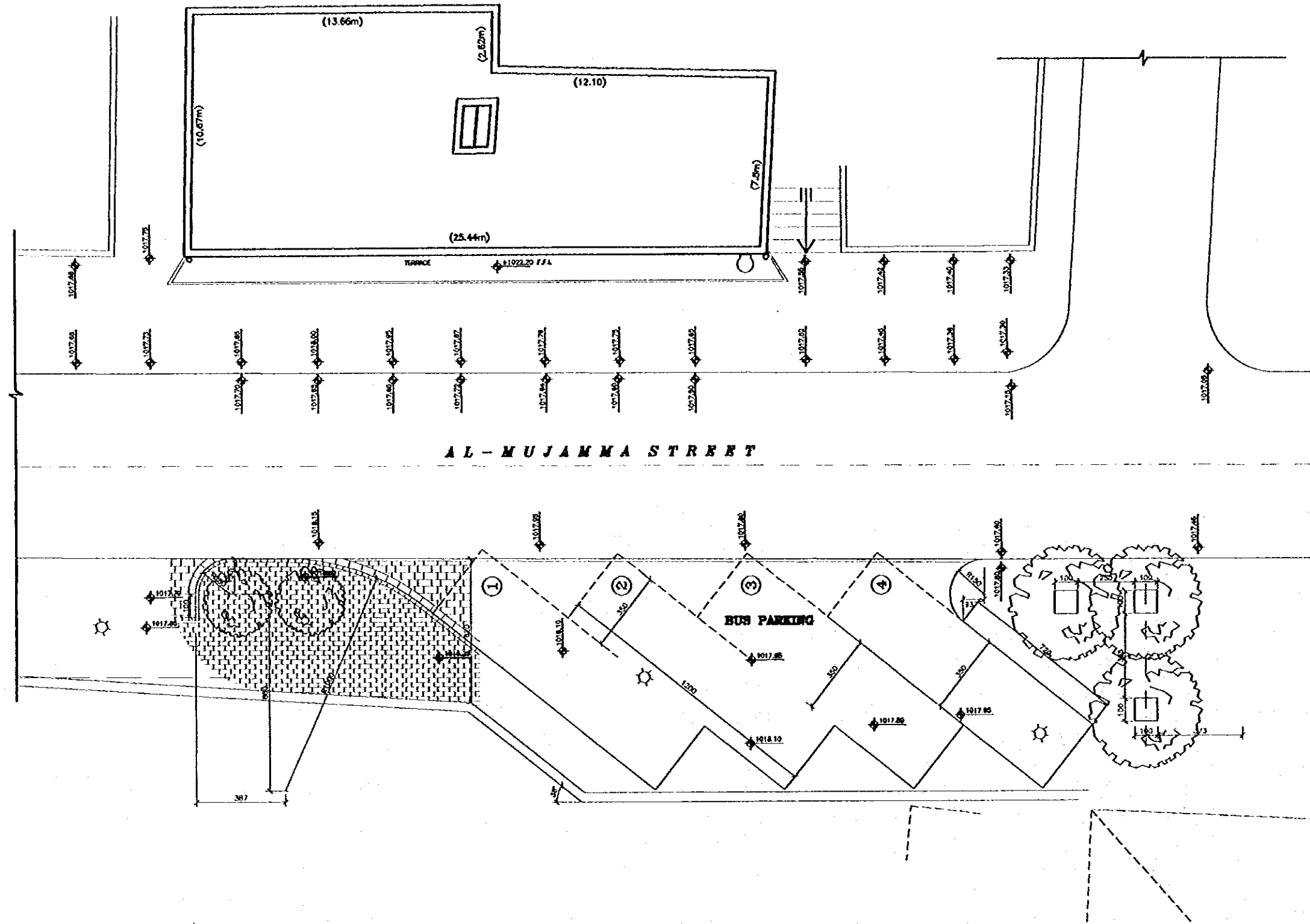
Designed by:
Japan International Cooperation
Agency (JICA)
JICA Study Team:
Joint Venture of
Pacific Consultants International and
Yamasita Sekkei Inc.
Subcontracted Local Consultant:

 consolidated consultants
engineering & environment
Tel. 0112277 - Fax. 0112298 - Amman - JORDAN

LIST OF DRAWINGS

Drawing Title:

Scale: Drawing No: **VC.A-000**

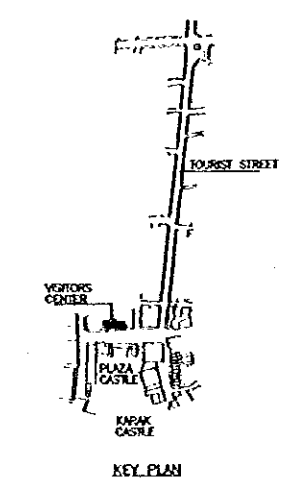


Project:
 Tourism Sector Development Project
 In the Hashemite Kingdom of Jordan

Executing Agency:
 The Ministry of Tourism and Antiquities
 The Ministry of Planning

SUB-PROJECT:
 Karak Tourism Development Project
 Visitors Center

Note:
 This detailed design has been executed by
 a team of consultants as shown below in
 accordance with the agreement between
 Japan International Cooperation Agency
 (JICA) and JICA Study Team.
 The copyright of this drawing rests with
 JICA.



Designed by:
 Japan International Cooperation
 Agency (JICA)

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

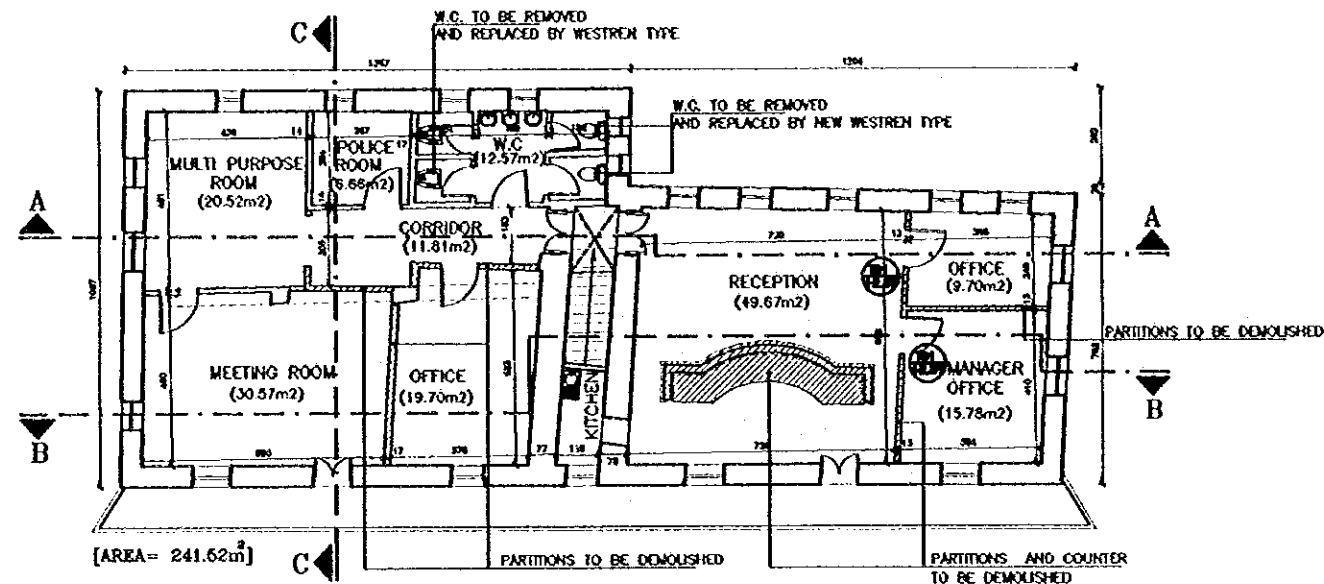
Subcontracted Local Consultant:

consolidated consultants
 engineering & environment
 Tel: 9913377 - Fax: 9913388 - AMMAN - JORDAN

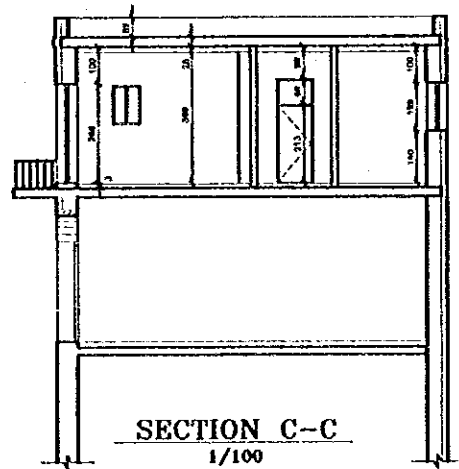
SITE PLAN

Drawing No.:
 1:100

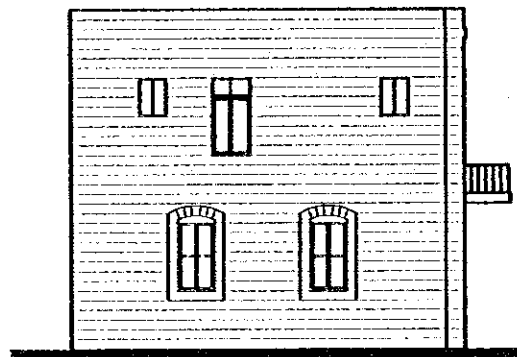
Sheet No.:
 V.C.A-001



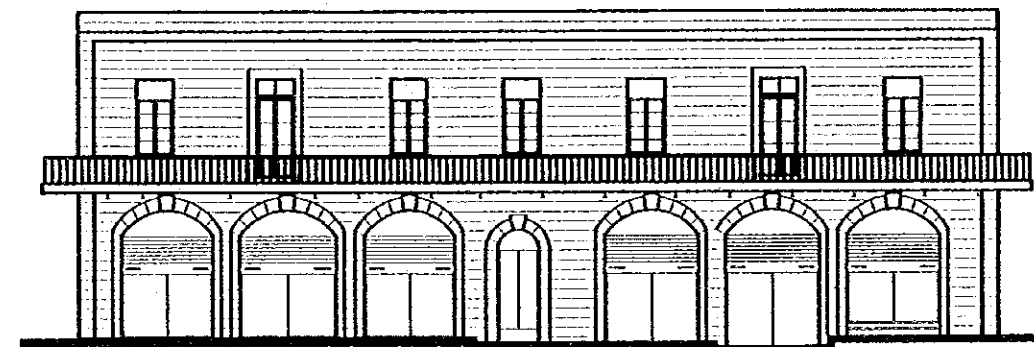
PLAN
1/100



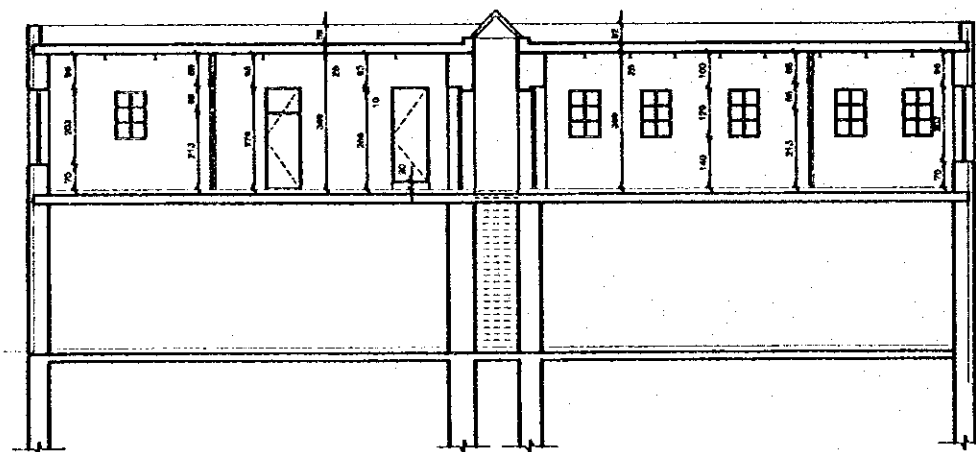
SECTION C-C
1/100



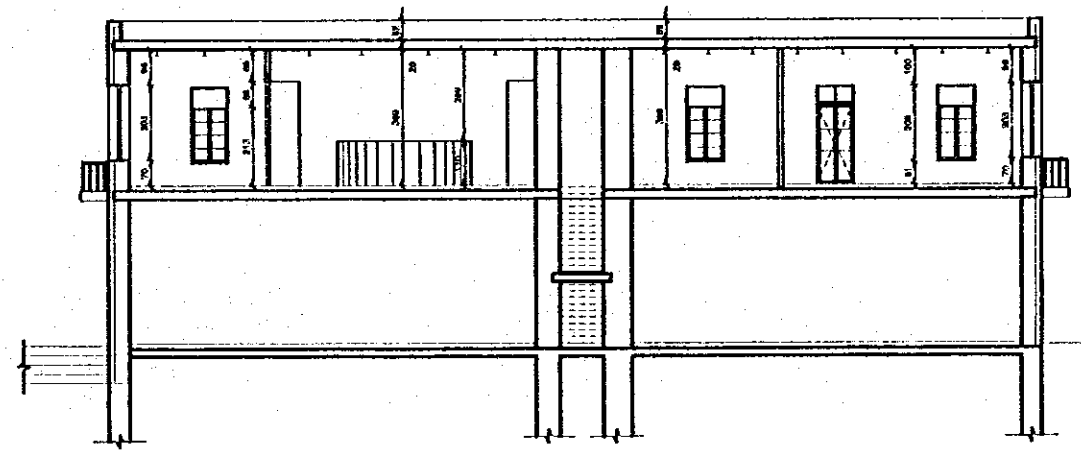
SIDE ELEVATION
1/100



FRONT ELEVATION
1/100



SECTION A-A
1/100



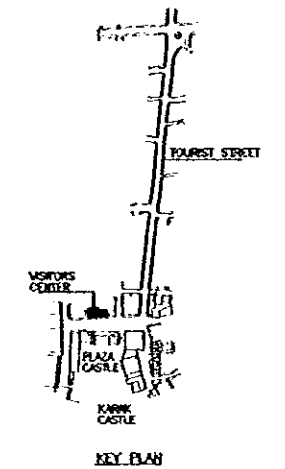
SECTION B-B
1/100

Project:
Tourism Sector Development Project
In the Hashemite Kingdom of Jordan

Executing Agency:
The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:
Karak Tourism Development Project
Visitors Center

Note:
This detailed design has been executed by a team of consultants as shown below in accordance with the agreement between Japan International Cooperation Agency (JICA) and JICA Study Team.
The copyright of this drawing rests with JICA.



Designed by:
Japan International Cooperation Agency (JICA)

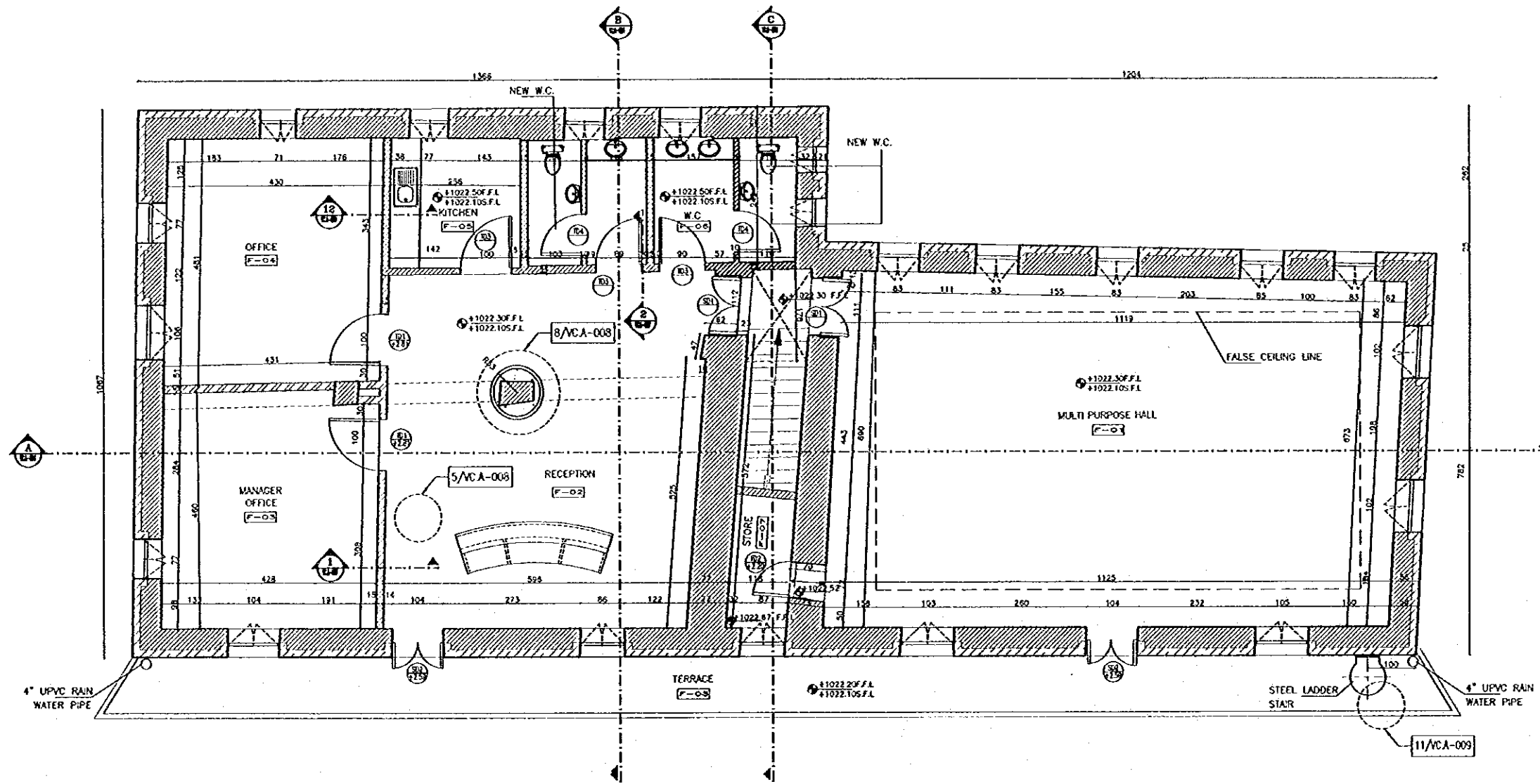
JICA Study Team:
Joint Venture of Pacific Consultants International and Yamaoka Sekiel Inc.

Subcontracted Local Consultant:



EXISTING PLAN, ELEVATIONS AND SECTIONS
Drawing Title

Scale: 1/100
Drawing No.: VC.A-002



Project:
 Tourism Sector Development Project
 in the Hashemite Kingdom of Jordan

Executing Agency
 The Ministry of Tourism and Antiquities
 The Ministry of Planning

SUB-PROJECT:
 Korak Tourism Development Project
 Visitors Center

Note:
 This detailed design has been executed by
 a team of consultants as shown below in
 accordance with the agreement between
 Japan International Cooperation Agency
 (JICA) and JICA Study Team.
 The copyright of this drawing rests with
 JICA.



Designed by:
 Japan International Cooperation
 Agency (JICA)
JICA Study Team:
 Joint Venture of
 Pacific Consultants International and
 Yamasato Sekkei Inc.
Subcontracted Local Consultant:

consolidated consultants
 engineering & environment
 Tel. 461377 - Fax. 461380 - AMMAN - JORDAN

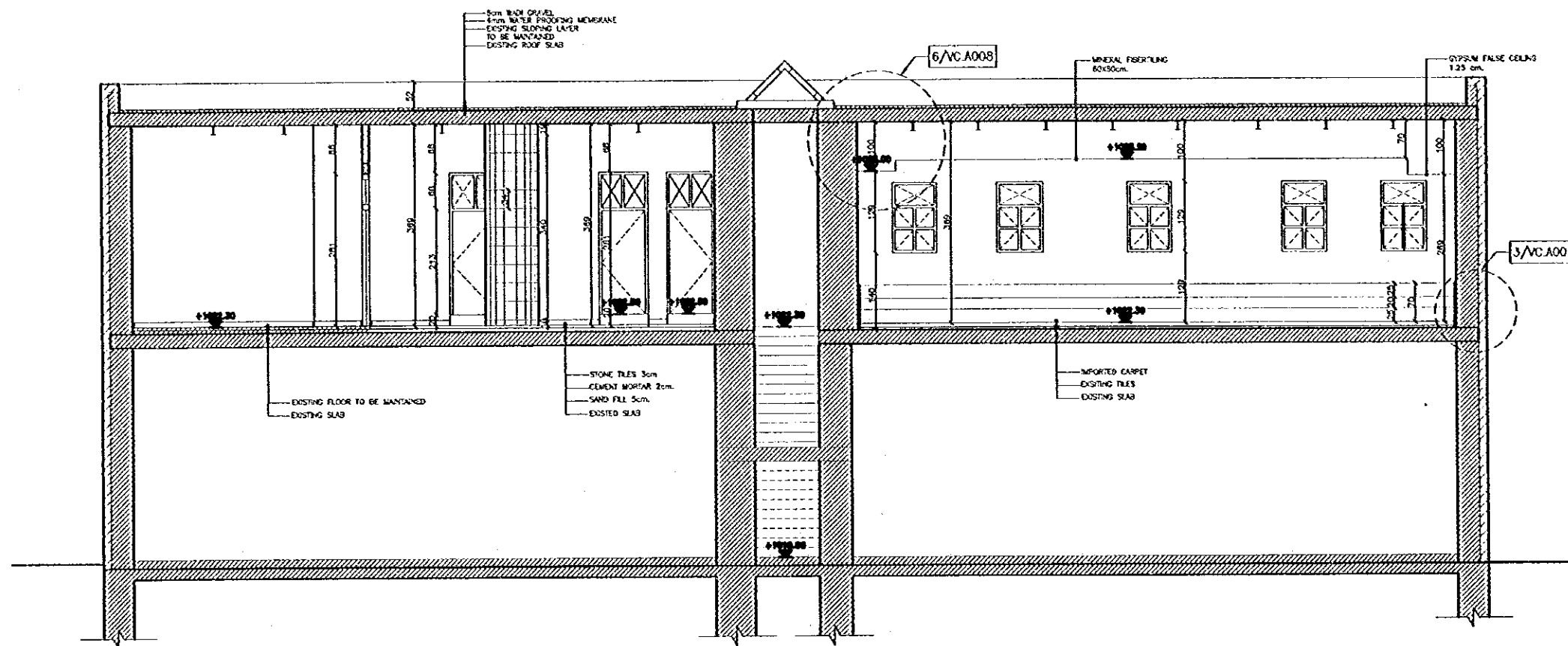
PROPOSED PLAN

Drawing Title:

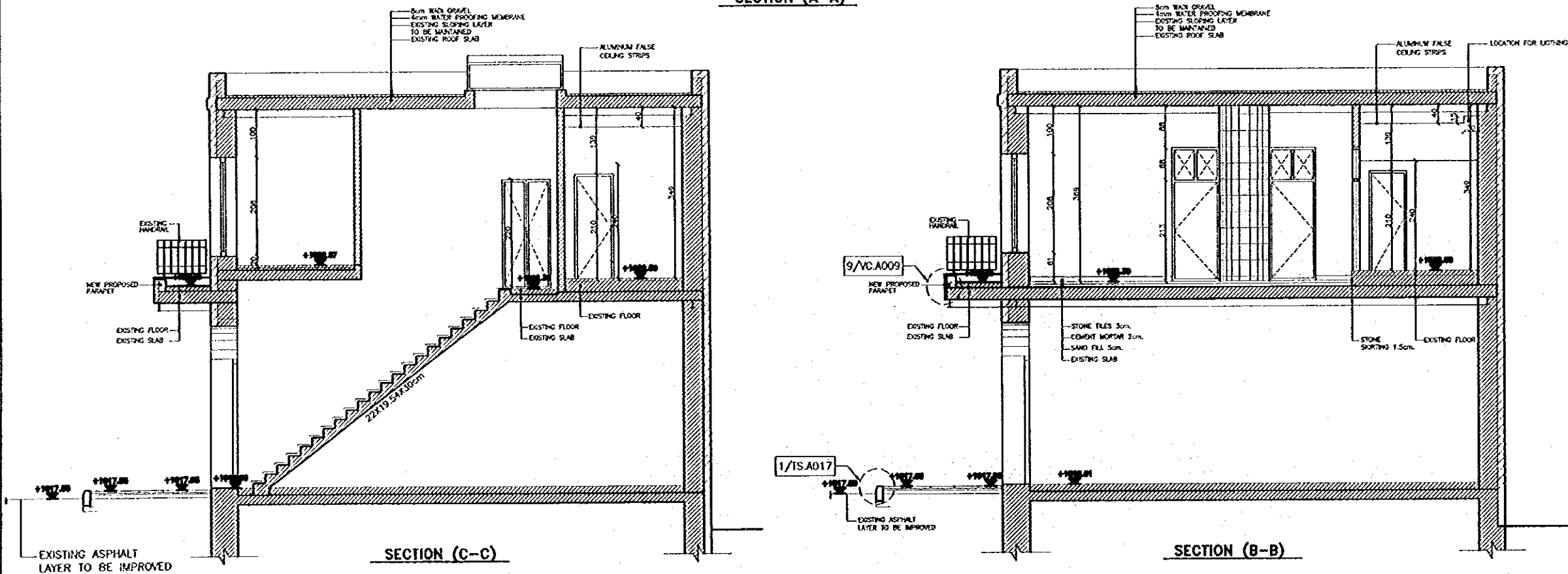
Scale:
 1:50

Drawing No.:
VC.A-003

10/11



SECTION (A-A)



SECTION (C-C)

SECTION (B-B)

Project:
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

Executing Agency
The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:
Karak Tourism Development Project
Visitors Center

Note:
This detailed design has been executed by
a team of consultants as shown below in
accordance with the agreement between
Japan International Cooperation Agency
(JICA) and JICA Study Team.
The copyright of this drawing rests with
JICA.

Designed by:
Japan International Cooperation
Agency (JICA)

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

Subcontracted Local Consultant:

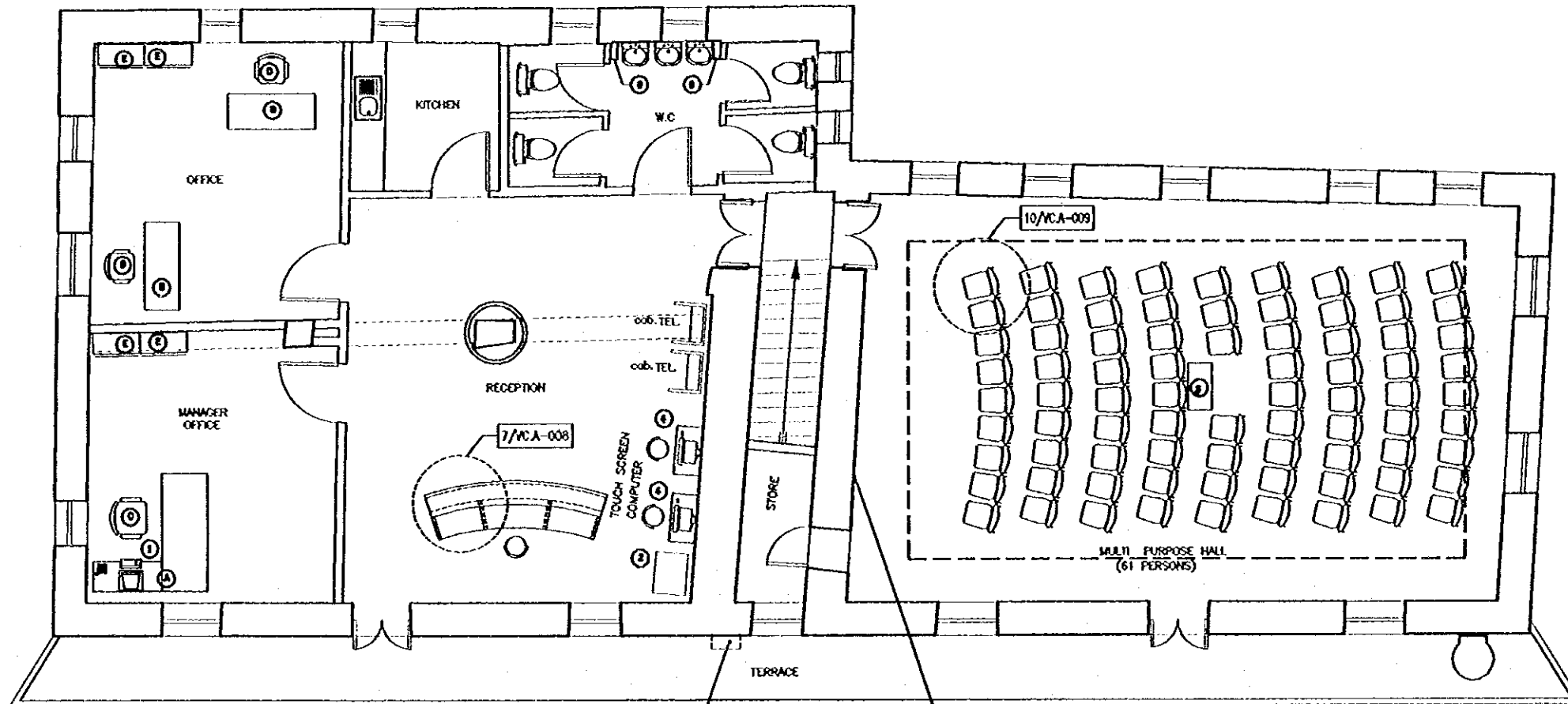


INTERNAL ELEVATIONS
(SECTIONS)

Drawing Title:

Scale: 1:50 Drawing No: VC.A-004

100



Project:
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

Executing Agency
The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:
Karak Tourism Development Project
Visitors Center

Note:
This detailed design has been executed by a team of consultants as shown below in accordance with the agreement between Japan International Cooperation Agency (JICA) and JICA Study Team.
The copyright of this drawing rests with JICA.

EQUIPMENT LIST:

EQUIPMENT	NO.
- PERSONAL COMPUTER AND PRINTER	(1)
- PRIVATE AUTOMATIC BRANCH EXCHANGE (PABX)	(1)
- LCD PROJECTOR	(1)
- TOUCH SCREEN COMPUTER DISPLAY (1)	(1)
- MAIL BOX (EXISTING OUTSIDE THE BUILDING AT THE MAIN ENTRANCE)	
- EXISTING ELECTRICAL DRYER MACHINE	

OFFICE FURNITURE LIST

LEGEND	FURNITURE	NO.
A	DESK	1
B	DESK	2
C	CHAIR	1
D	CHAIR	2
E	SHELF	4



Designed by:
Japan International Cooperation Agency (JICA)
JICA Study Team:
Joint Venture of Pacific Consultants International and Yumoto & Sekido Inc.
Subcontracted Local Consultant:

consolidated consultants
engineering & environment
Tel: 4812571 - Fax: 4812380 - Amman - Jordan

FURNITURE PLAN

Drawing Title:

Scale: 1:20
Drawing No.: VC.A-005

Project:
 Tourism Sector Development Project
 In the Hashemite Kingdom of Jordan

Executing Agency:
 The Ministry of Tourism and Antiquities
 The Ministry of Planning

SUB-PROJECT:
 Karak Tourism Development Project
 Visitors Center

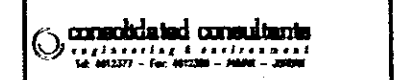
Note:
 This detailed design has been executed by a team of consultants on sheets before in accordance with the agreement between Japan International Cooperation Agency (JICA) and JICA Study Team.
 The copyright of this drawing rests with JICA.

- LEGEND:**
- HALOGEN SPOT LIGHT
 - FLUORESCENT LIGHTING
 - RECESSED SPOT LIGHT
 - SURFACE MOUNTED FLUORESCENT LIGHTING WITH LOUVER (RECESSED IN FALSE CEILING)
 - SURFACE MOUNTED FLUORESCENT LIGHTING WITH LOUVER
 - RETAIN CEILING GRILL
 - SUPPLY CEILING DIFFUSER
 - SPLIT HEAT PUMP INDOOR UNIT

Designed by:
 Japan International Cooperation Agency (JICA)

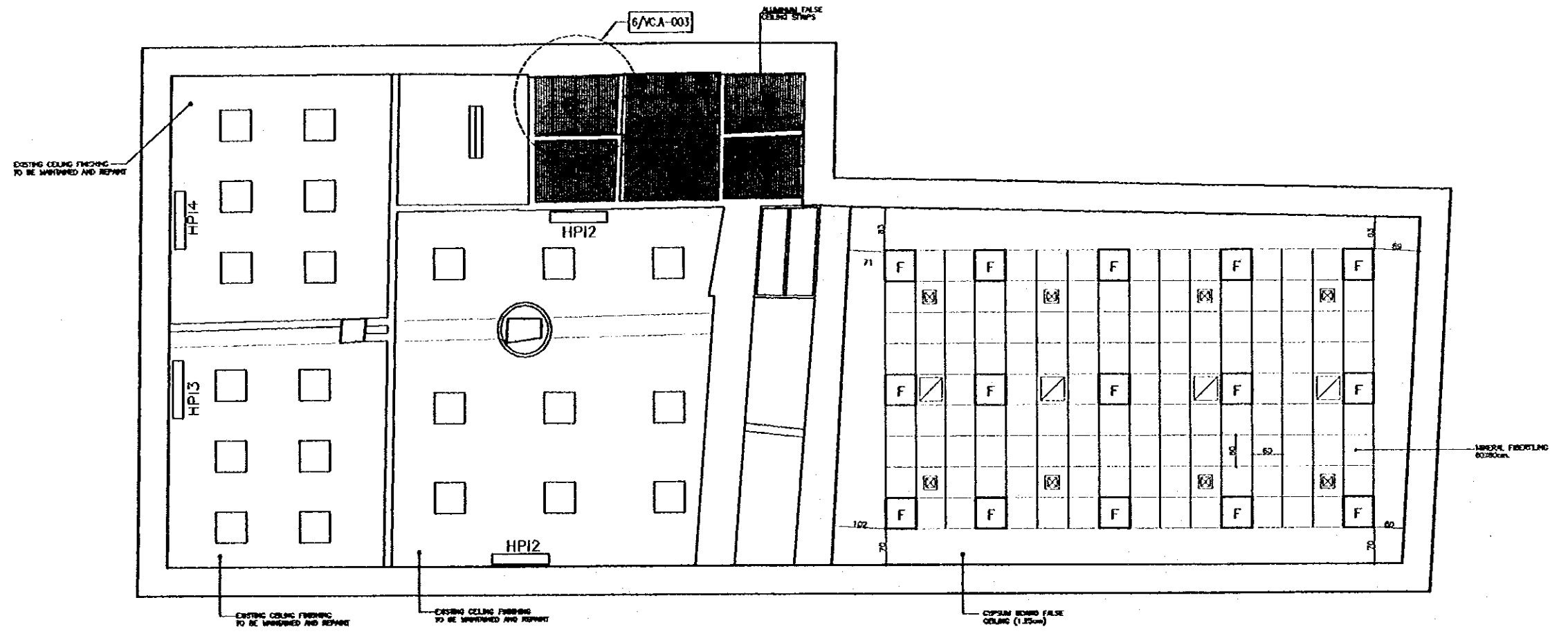
JICA Study Team:
 Joint Venture of Pacific Consultants International and Yamashita Seki Inc.

Subcontracted Local Consultant:



REFLECTED FALSE CEILING PLAN

Scale: 1:50
 Drawing No.: VC.A-006

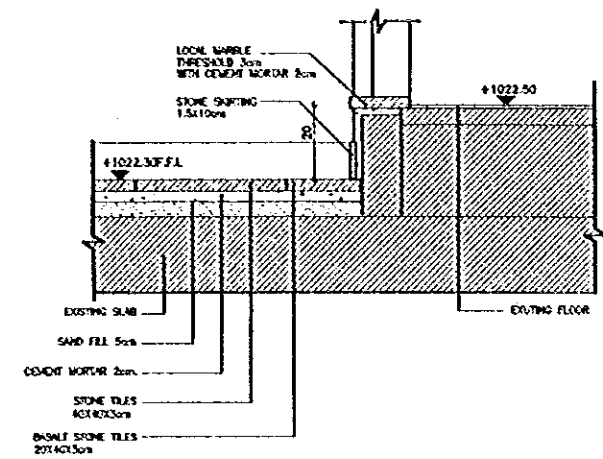
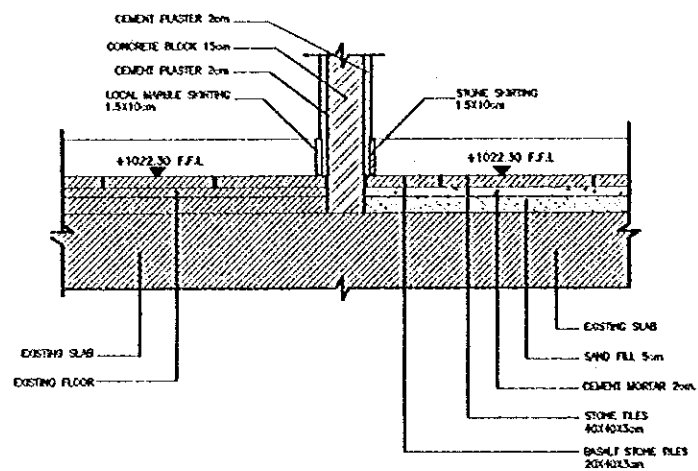


Project:
 Tourism Sector Development Project
 In the Hashemite Kingdom of Jordan

Executing Agency:
 The Ministry of Tourism and Antiquities
 The Ministry of Planning

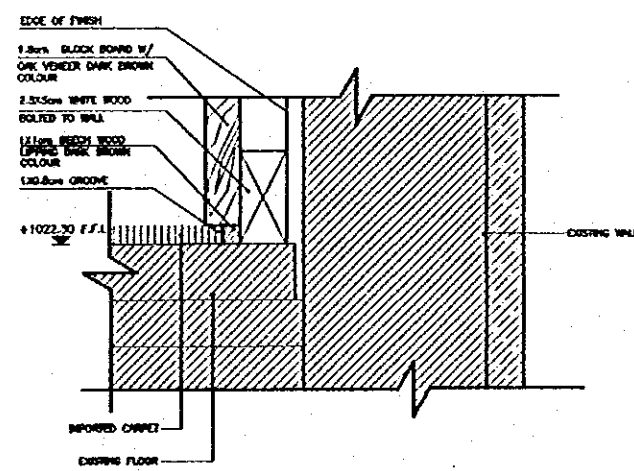
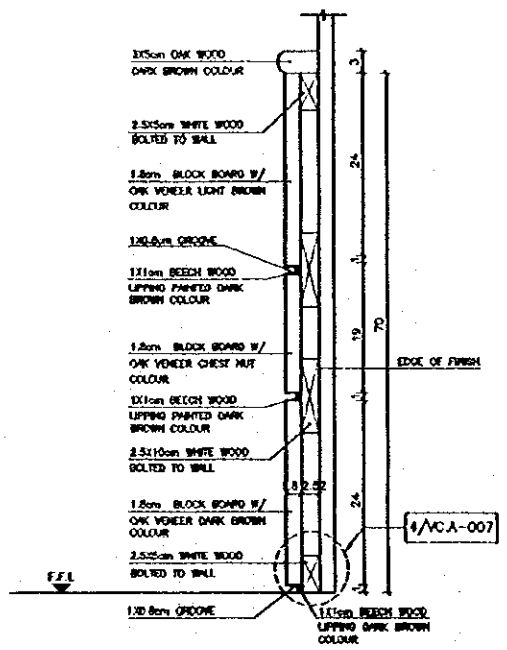
SUB-PROJECT:
 Karak Tourism Development Project
 Visitors Center

Note:
 This detailed design has been executed by
 a team of consultants as shown below in
 accordance with the agreement between
 Japan International Cooperation Agency
 (JICA) and JICA Study Team.
 The copyright of this drawing rests with
 JICA.



1 FLOOR DETAILS
 SCALE = 1:10

2 FLOOR DETAILS
 SCALE = 1:10



3 WOOD CLADDING DETAIL
 SCALE = 1:5

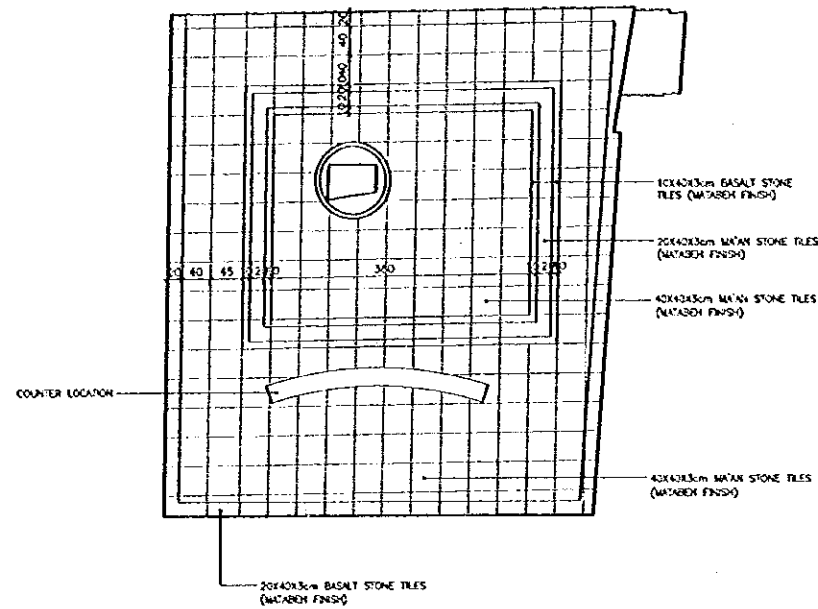
4 FLOOR DETAILS
 SCALE = 1:5

Designed by:
 Japan International Cooperation
 Agency (JICA)
 JICA Study Team:
 Joint Venture of
 Pacific Consultants International and
 Yamaoka Seidai Inc.
 Subcontracted Local Consultant:

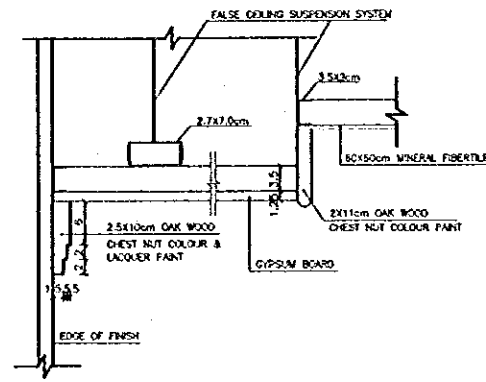
consolidated consultants
 engineering & environment
 16, Mt.237 - Fax: 461266 - 46661 - JORDAN

ARCHITECTURAL
 DETAILS-1

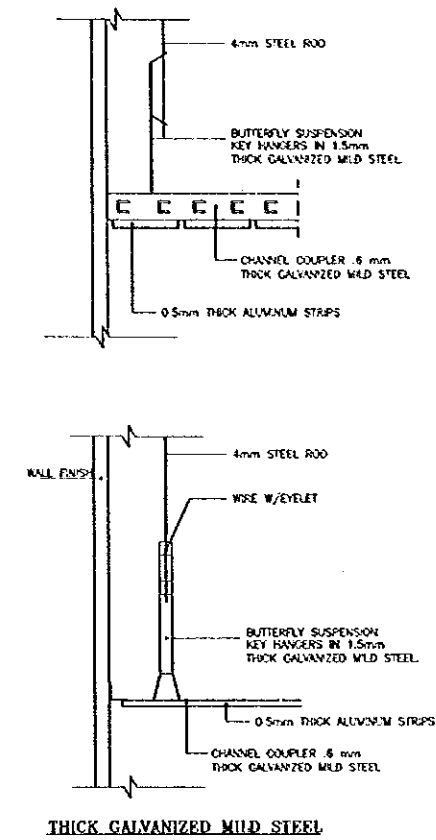
Scale: AS SHOWN
 Drawing No: VCA-007



5 TILING PATTERN AT RECEPTION
SCALE = 1:50

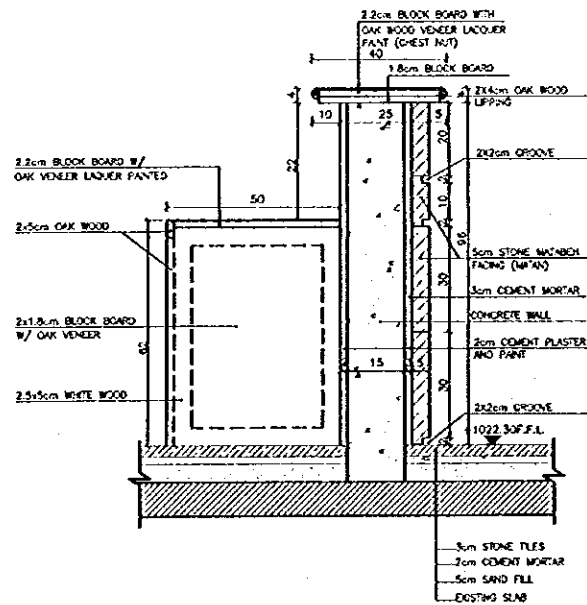


FALSE CEILING AT MPH

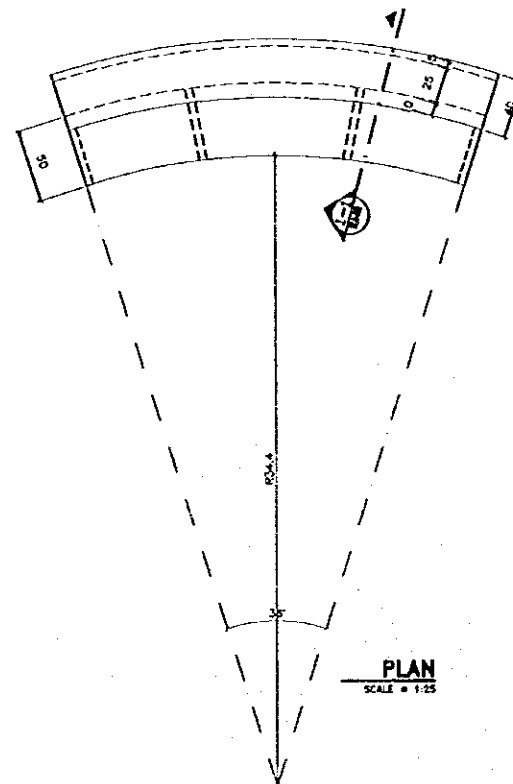


THICK GALVANIZED MILD STEEL

6 FALSE CEILING DETAILS
SCALE = 1:5

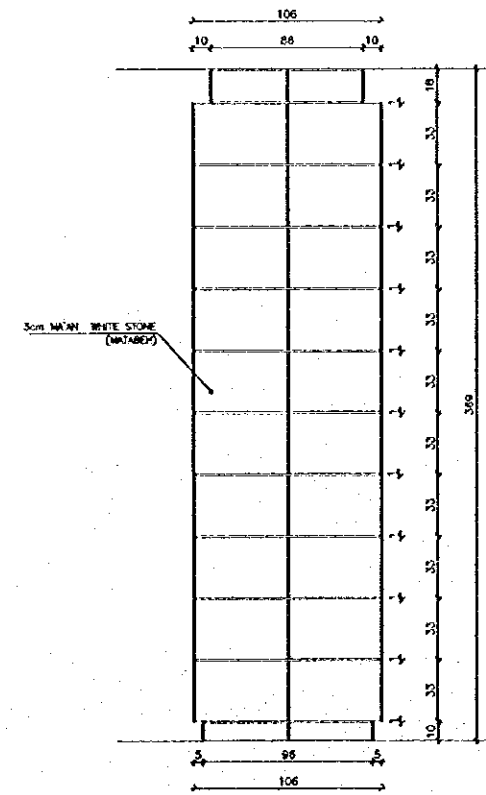


SECTION (1-1)
SCALE = 1:10

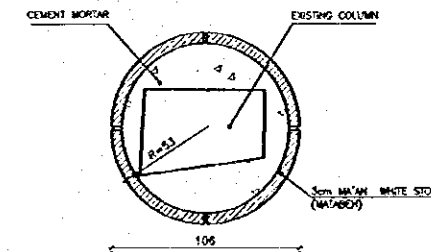


PLAN
SCALE = 1:15

7 COUNTER DETAIL
SCALE = AS SHOWN



ELEVATION
SCALE = 1:20



PLAN
SCALE = 1:20

8 DETAIL OF COLUMN
SCALE = AS SHOWN

Project:
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

Executing Agency
The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:
Karak Tourism Development Project
Visitors Center

Note:
This detailed design has been executed by
a team of consultants as shown below in
accordance with the agreement between
Japan International Cooperation Agency
(JICA) and JICA Study Team.
The copyright of this drawing rests with
JICA.

Designed by:
Japan International Cooperation
Agency (JICA)

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

Subcontracted Local Consultant:

consolidated consultants
engineering & environment
Tel. 4612377 - Fax 4612360 - AMMAN - JORDAN

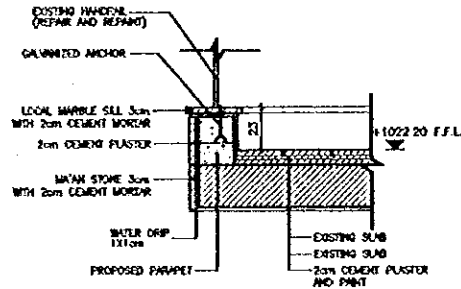
ARCHITECTURAL
DETAILS-2

Drawing Title:

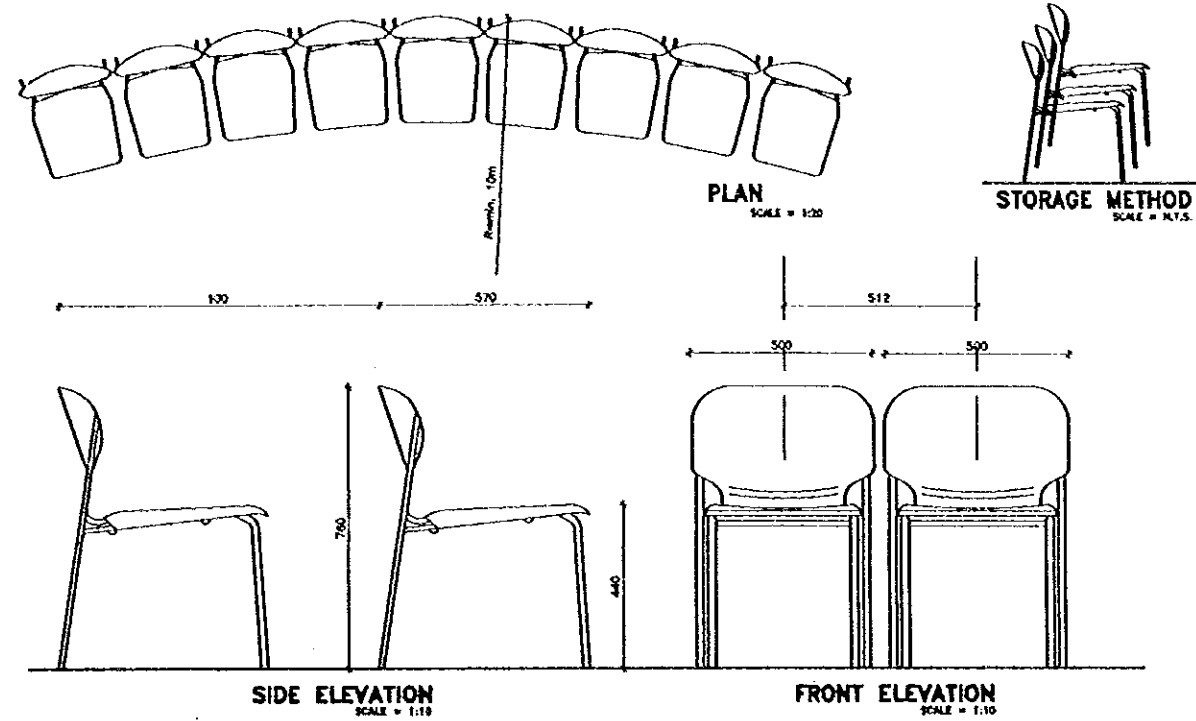
Scale:
AS SHOWN

Drawing No.:

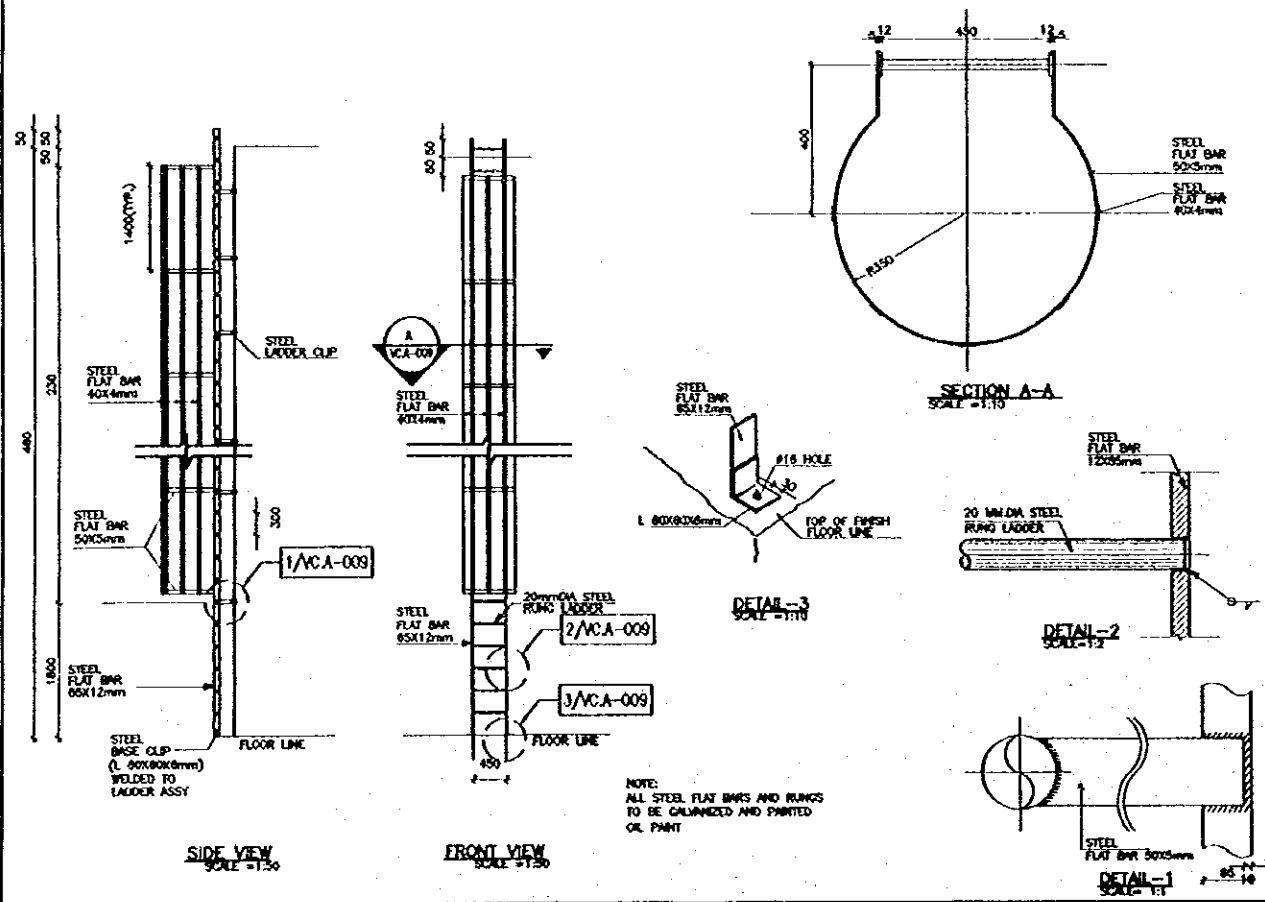
VC.A-008



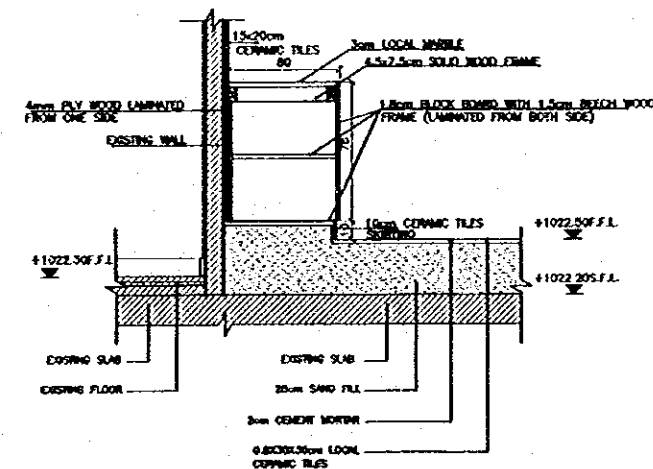
9 TERRACE PARAPET DETAIL
SCALE = 1:20



10 MULTI PURPOSE HALL SEATS DETAILS
SCALE = AS SHOWN



11 STEEL LADDER STAIR DETAIL
SCALE = AS SHOWN



12 KITCHEN COUNTER DETAIL
SCALE = 1:20

Project:
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

Executing Agency:
The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:
Karak Tourism Development Project
Walkers Center

Note:
This detailed design has been executed by
a team of consultants as shown below in
accordance with the agreement between
Japan International Cooperation Agency
(JICA) and JICA Study Team.
The copyright of this drawing rests with
JICA.

Designed by:
Japan International Cooperation
Agency (JICA)
JICA Study Team:
Joint Venture of
Pacific Consultants International and
Yamamoto Seki Inc.
Subcontracted Local Consultant:

consolidated consultants
Engineering & Environmental
Tel: 60 2377 - Fax: 60 2388 - 2000

ARCHITECTURAL
DETAILS-3

Sheet: AS SHOWN Drawing No: VC.A-009

1005

SCHEDULE OF FINISHING

Rm. No.	Room Name	FLOOR				SKIRTING		WALL				CEILING				REMARKS
		IMPORTED CARPET	LOCAL STONE TILES	LOCAL STONE TILES	LOCAL STONE TILES	LOCAL STONE TILES	LOCAL STONE TILES	LOCAL STONE TILES	LOCAL STONE TILES	LOCAL STONE TILES	LOCAL STONE TILES	LOCAL STONE TILES	LOCAL STONE TILES	LOCAL STONE TILES	LOCAL STONE TILES	
F-01	MULTI PURPOSE HALL															
F-02	RECEPTION															
F-03	MANAGER OFFICE															
F-04	OFFICE															
F-05	KITCHEN															
F-06	W.C.															
F-07	STORE															
F-08	TERRACE															

NOTE:
 - APPLY PLASTER WHERE NEEDED ONLY.
 - APPLY PAINT EVERY WHERE.

DOOR NO.	Q.	SIZE		FRAME WIDTH	FRAME FINISH	LEAF FINISH	DOOR STOP	DOOR CLOSER	DOOR BOLT	DOOR LOCK	DOOR HANDLE	HINCE	MOVE	NOTE
		H.	W.											
TIMBER WOOD DOORS														
T01	2	270	94	11	EX.	EX.	EX.	-	-	-	CE	DR.	SL.	OPENING
T02	1	210	94	11	EX.	EX.	EX.	-	-	-	CE	DR.	SL.	PROPOSED
T03	3	-	-	-	EX.	EX.	EX.	-	-	-	-	-	-	OPENING
T04	1	-	-	-	EX.	EX.	EX.	-	-	-	-	-	-	OPENING
STEEL DOORS														
S01	1	-	-	-	EX.	EX.	EX.	-	-	-	-	-	-	OPENING
S02	2	207	120	3	C.P.	S.P.	S.P.	-	-	-	C2	L.P.L.	SL.	PROPOSED

NOTE:
 EXISTING OPENING HEIGHT OF T02
 SHALL BE ENLARGED BY 40cm SO
 THAT THE HEIGHT OPENING BECOME
 2.07m INSTEAD OF 1.67m.

STEEL DOOR WORKS GENERAL NOTES

- ALL STEEL WORKS TO BE OIL PAINTED FOR TYPE OF PAINT REFER TO SUPPLEMENTARY SCHEDULE (COLORS TO BE APPROVED BY THE OWNER)
- ALL WORKMANSHIP TO BE IN ACCORDANCE WITH THE SCHEDULE OF FINISHING
- ALL CLEAR FINISHES TO BE DONE BEFORE CLEAR COAT
- ALL OPENING SIZES, UNLESS SPECIFIED OTHERWISE, TO BE AS SHOWN ON DRAWINGS
- ALL OPENINGS TO BE VENTED FROM ACTUAL FIRE CONDITIONS
- ALL SCREENS SHALL BE ALUMINUM WORK WITH
- SAMPLES OF ALL STEEL SECTIONS, ACCESSORIES & FINISHES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL
- ALL STEEL PARTS TO BE PAINTED WITH PRIMER PAINT BEFORE BEING PAINTED TO WALL
- FINISHES & THEIR MEANING:
 - SP3 SIDE HINCE OPENING IN
 - SP00 SIDE HINCE OPENING OUT
 - F FIBER
 - C.P. OIL PAINT
 - DR LEVER HANDLE ON BOTH SIDES OF LEAF COMPLETE WITH LATCH BACK PLATE AND EQUIPMENT ONLY FOR DOORS
 - C1 CYLINDRICAL LOCK OPERABLE FROM BOTH SIDES
 - F2 FLOOR FINISH
 - LA LEFT OF HINCE
 - LR LEVER ACTION FLUSH BOLT (BY DUNE EXCLUDING SOCKET SPRING LOADED & FLUSH TYPE SPRING PLATE LOWER BOLT TO BE 30x3x4mm. HINGED BOLT TO BE 40x3x6mm) 2-3mm HINCE
 - P.P. PINE BOLT USED FOR FIRE ESCAPE DOOR
 - S.S. STEEL 304 STAINLESS STEEL
 - S.S.F. STAINLESS STEEL SHEET
 - C.S. COARSE MESH
 - E ENAMELED
 - S.S.H. STAINLESS STEEL HANDLE

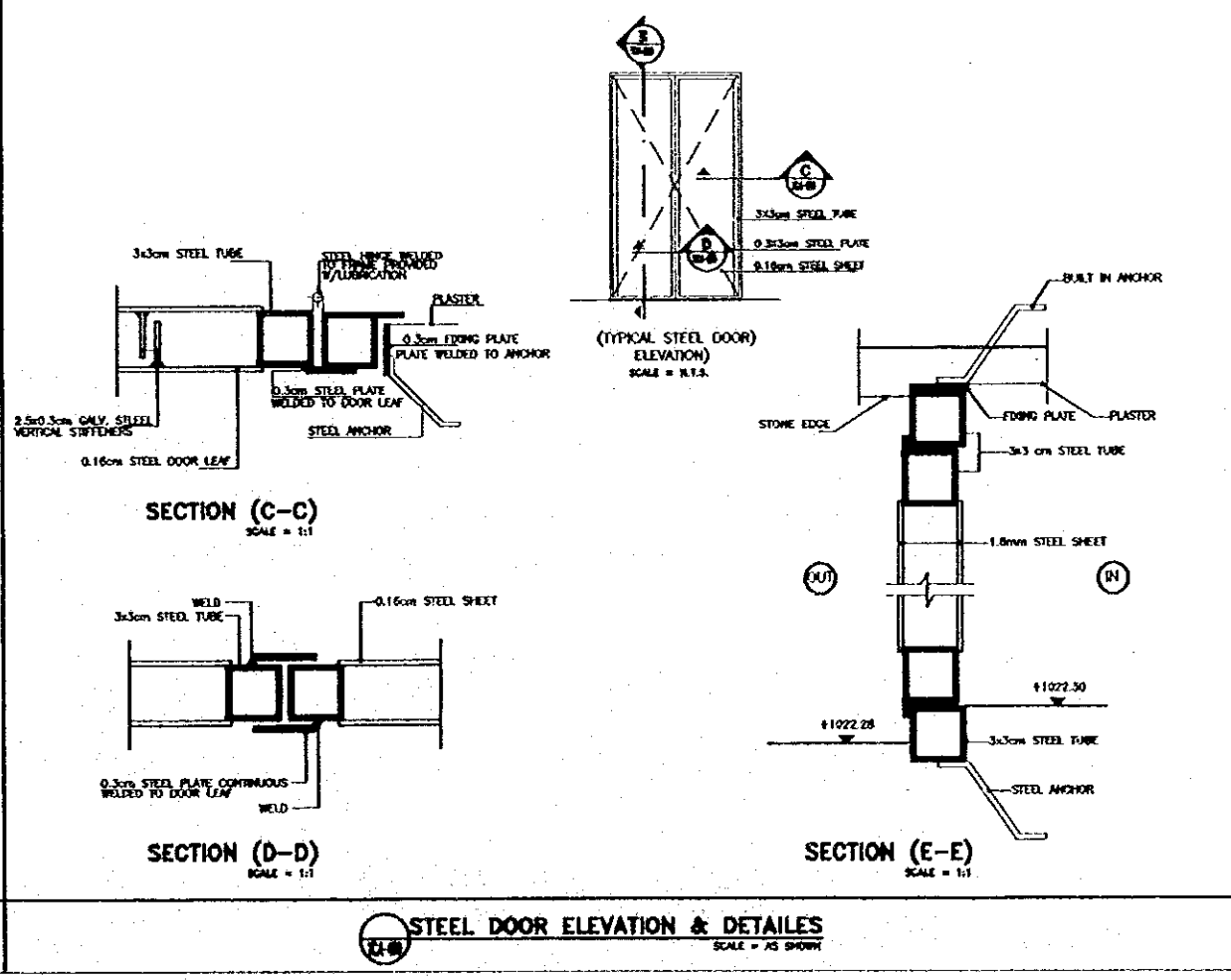
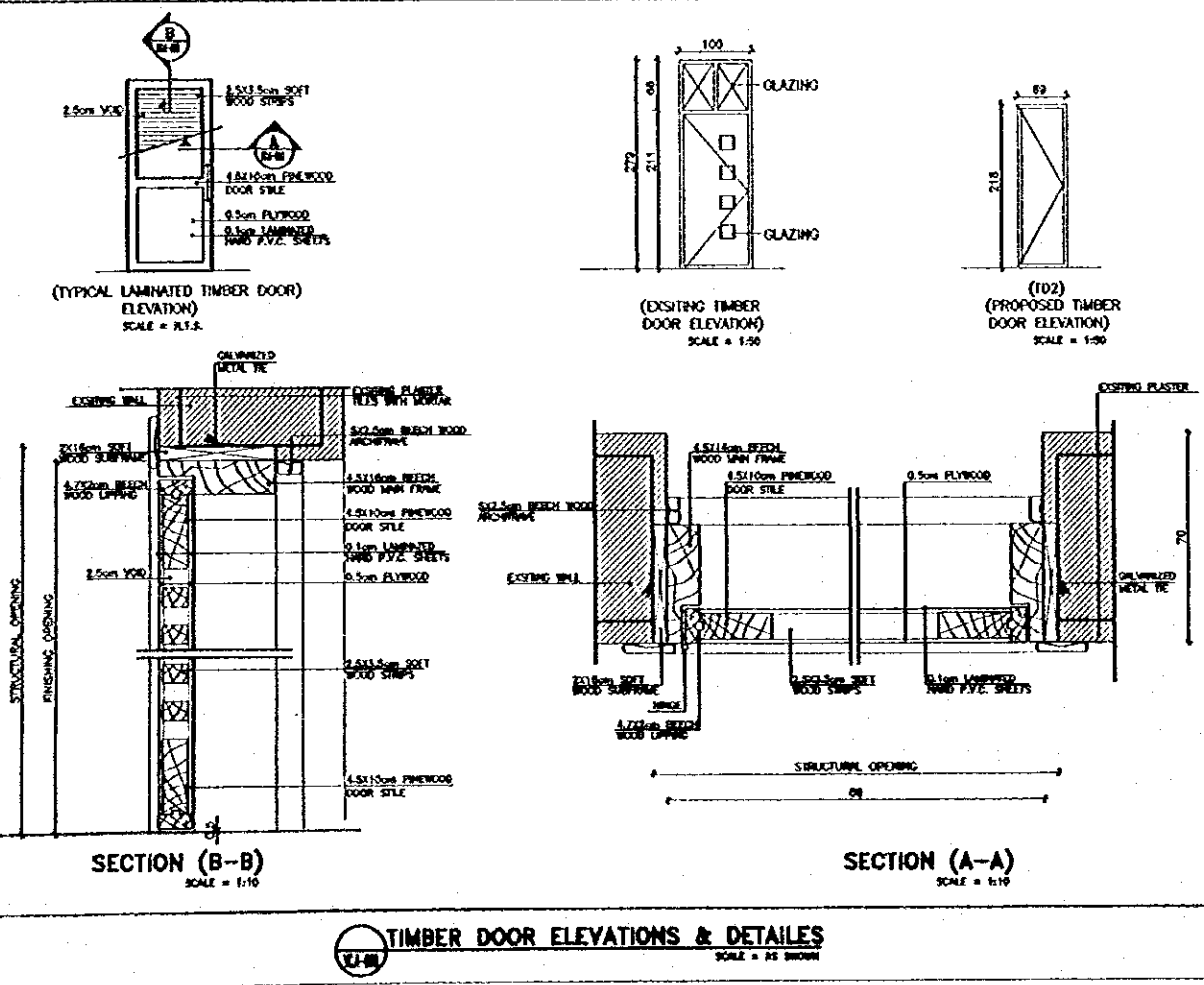
WOOD DOOR WORKS GENERAL NOTES

- 1. COUNTERSINK SHALL VERIFY ALL DIMENSIONS IN PROJ. & SHOW SHIP DATES TO THE END. STAMPING ALL SUCH INFORMATION FOR APPROVAL.
- 2. ALL WORKMANSHIP & FINISHES UNLESS SPECIFIED OTHERWISE TO BE IN ACCORDANCE WITH THE SCHEDULE OF FINISHING
- 3. FINISHES:
 - ALL OPENING SIZES TO BE PROVIDED BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED
 - ALL WORKMANSHIP (INTERNAL OR EXTERNAL) TO BE IN ACCORDANCE WITH THE SCHEDULE OF FINISHING
 - ALL CLEAR FINISHES TO BE DONE BEFORE CLEAR COAT
 - FINISHES OF ALL STEEL SECTIONS, ACCESSORIES & FINISHES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL
- 4. DOORS:
 - THE DIMENSIONS SHOWING THE HEIGHT OF THE DOOR IS FROM FINISH FLOOR LEVEL TO THE TOP OF FRAME AT HEAD INCLUDING ADJUSTMENT
 - DIMENSIONS OF WORKMANSHIP SHALL SHOW DIMENSIONS OF FINISH OPENINGS (EXCLUDING WORKMANSHIP BUILT IN)
- 5. ALL FINISHES OF FIRE RATED DOOR (IF ANY) TO BE POWER COATED
- 6. ALL EXTERNAL SCREWS (NAILS OR NAILS) TO BE SHROUDED PROPERLY WITH SHAPED MOULDING AND FINISHES
- 7. SW 45 IS AN EXTERNAL LOCKING MECHANISM TO BE USED ON DOORWAY
- 8. ALL EXISTING OPENINGS TO BE IMPROVED WHERE NEEDED INCLUDING STEEL CLIPPERS & SET LINES

- LET OF FINISHES:
 - L.P.R. LEVER HANDLE ON BOTH SIDES OF LEAF COMPLETE WITH LATCH BACK PLATE AND EQUIPMENT ONLY FOR DOORS
 - L.P.M. LEVER ACTION HANDLE
 - L.P.S. LEVER ACTION HANDLE
 - C.P. OIL PAINT
 - P.C. POWER COATED PAINT
 - B. BELL BRASS BOLT HINCE
 - F.A. FIBER HANDLE
 - F.E. FIRE ESCAPE DOOR HANDLE
 - L.P.H. LEVER ACTION FLUSH BOLT (BY DUNE EXCLUDING SOCKET SPRING LOADED) FLUSH TYPE SPRING PLATE LOWER BOLT TO BE 30x3x4mm
 - L.P.B. LEVER ACTION FLUSH BOLT (BY DUNE EXCLUDING SOCKET SPRING LOADED) FLUSH TYPE SPRING PLATE LOWER BOLT TO BE 30x3x4mm
 - C1 CYLINDRICAL LOCK OPERABLE FROM BOTH SIDES
 - C2 CYLINDRICAL LOCK OPERABLE FROM BOTH SIDES
 - S.S. STAINLESS STEEL
 - L.P.A. LEVER ACTION FLUSH BOLT (BY DUNE EXCLUDING SOCKET SPRING LOADED) FLUSH TYPE SPRING PLATE LOWER BOLT TO BE 30x3x4mm
 - P.P. PINE BOLT USED FOR FIRE ESCAPE DOOR
 - S.S. STAINLESS STEEL
 - L.L. LEVER ACTION HANDLE
 - C.S. COARSE MESH

FINISHING SCHEDULE

DOORS SCHEDULE



Project:
 Tourism Sector Development Project
 In the Hashemite Kingdom of Jordan

Executing Agency
 The Ministry of Tourism and Antiquities
 The Ministry of Planning

SUB-PROJECT:
 Karak Tourism Development Project
 Visitors Center

Note:
 This detailed design has been executed by a team of consultants as shown below in accordance with the agreement between Japan International Cooperation Agency (JICA) and JICA Study Team.
 The copyright of this drawing rests with JICA.

Designed by:
 Japan International Cooperation Agency (JICA)
 JICA Study Team:
 Joint Venture of Pacific Consultants International and Yamashita Sato Inc.

Subcontracted Local Consultant:

consolidated consultants
 engineering & architecture
 Tel: 011277 - Fax: 011230 - Amman - JORDAN

ARCHITECTURAL
 DETAILS-4

Sheet: AS DRAW
 Drawing No: VCA-010

Project:
 Tourism Sector Development Project
 In the Hashemite Kingdom of Jordan

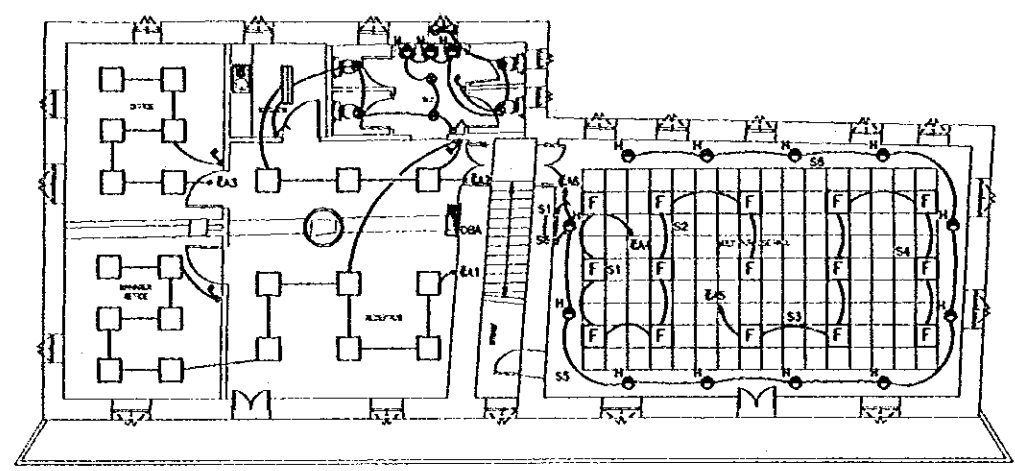
Executing Agency:
 The Ministry of Tourism and Antiquities
 The Ministry of Planning

SUB-PROJECT:
 Kerak Tourism Development Project
 Visitors Center

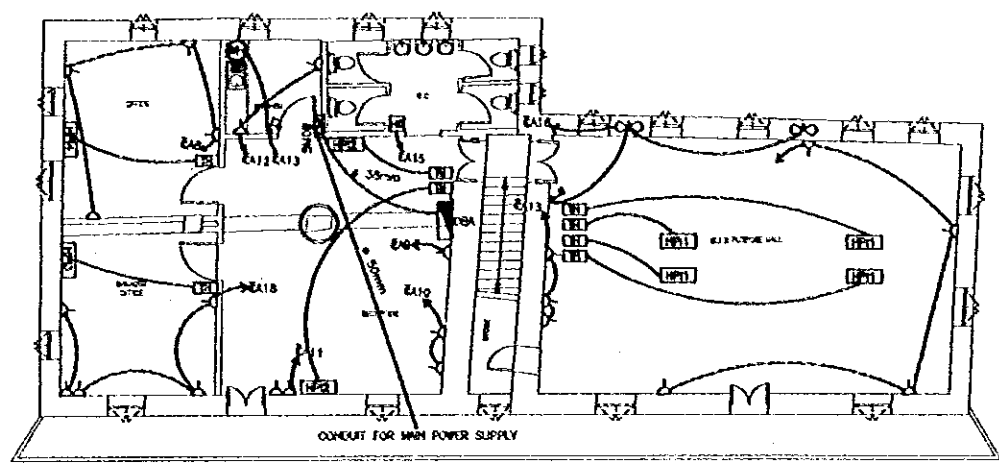
Note:
 This detailed design has been executed by a team of consultants as shown below in accordance with the agreement between Japan International Cooperation Agency (JICA) and JICA Study Team.

The copyright of this drawing rests with JICA.

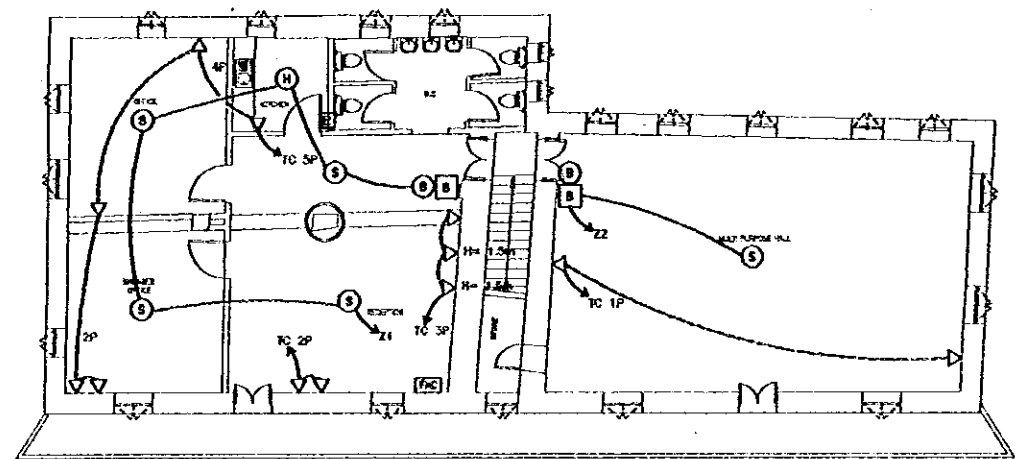
- LEGEND AND NOTES:**
- 2x30w FLUORESCENT LIGHTING FIXTURE WITH PRISMATIC DIFFUSOR(F2)
 - AXI BY SURFACE MOUNTED FLUORESCENT WITH LAMPE(F1)
 - F DITTO BUT RECESSED IN FALSE CEILING(F3)
 - ⊙ 80w RECESSED SPOT LIGHT(1)
 - ⊙ 12w - 50w HALOGEN SPOT LIGHT WITH 220/12v TRANSFORMER(2)
 - ▽ RJ11 TELEPHONE OUTLET
 - ⊙ IONIZATION SMOKE DETECTOR
 - ⊠ BREAK GLASS CALL POINT
 - ⊙ (8") ALARM BELL
 - TC TELEPHONE CONNECTION BOX
 - △ 15A SOCKET OUTLET MOUNTED AT 45cm F.F.L.
 - HD HAND DRYER
 - ⊙ EXTRACT FAN
 - ⊠ THERMOSTAT
 - ⊠ (1) PHASE, IP56 ISOLATOR
 - ⊠ DITTO BUT (3) PHASE
 - ⊠ RATE OF RISE HEAT DETECTOR
 - ⊠ FIRE ALARM PANEL
 - ⊠ 20A DOUBLE POLE SWITCH WITH PILOT LAMP
 - ⊠ WATER HEATER
 - UNDER TILES PVC CONDUIT
 - ABOVE FALSE CEILING OR IN EXISTING SLAB PVC CONDUIT
 - * # 20mm PVC CONDUITS TO BE USED FOR LIGHTING CIRCUITS, FIRE ALARM, TELEPHONE, EXTRACT FANS AND THERMOSTAT.
 - * # 25mm PVC CONDUITS TO BE USED FOR POWER SOCKET OUTLET AND HAND DRYERS.
 - * # 30mm PVC CONDUITS TO BE USED FOR A/C SPLIT UNIT.



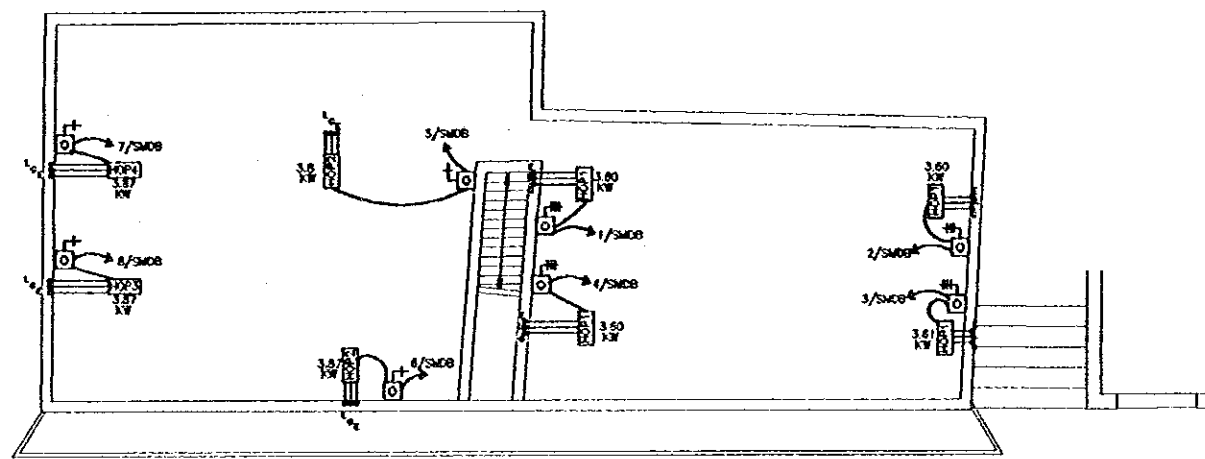
LIGHTING LAYOUT



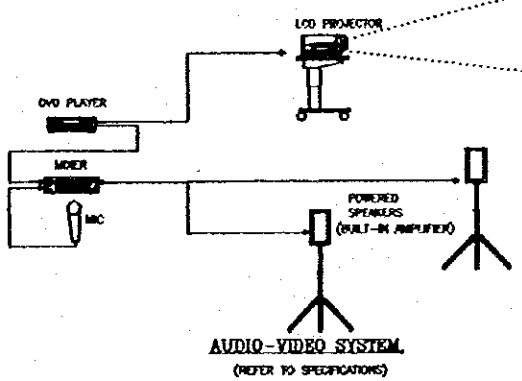
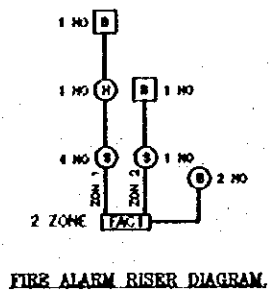
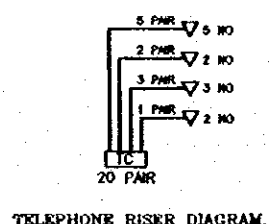
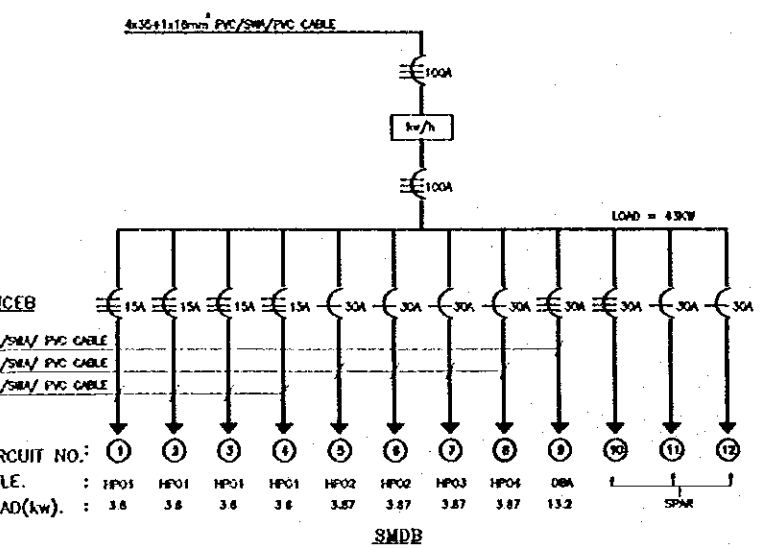
POWER LAYOUT



TELEPHONE & FIRE ALARM SYSTEMS



ROOF POWER



DISTRIBUTION PANEL BOARD

NO.	DESCRIPTION OF LOAD	AMPERE	VOLTS	WATT	REMARKS
1	LIGHTING	2.5	220	550	LIGHTING
2	LIGHTING	2.5	220	550	LIGHTING
3	LIGHTING	2.5	220	550	LIGHTING
4	SOCKET OUTLET	2.5	220	550	SOCKET OUTLET
5	SOCKET OUTLET	2.5	220	550	SOCKET OUTLET
6	SOCKET OUTLET	2.5	220	550	SOCKET OUTLET
7	WATER HEATER	4	220	880	WATER HEATER
8	HAND DRYER	4	220	880	HAND DRYER
9	SOCKET OUTLET	2.5	220	550	SOCKET OUTLET

Designed by:
 Japan International Cooperation Agency (JICA)
 JICA Study Team:
 Joint Venture of Pacific Consultants International and Yamashita Sekidai Inc.

Subcontracted Local Consultant:

consolidated consultants
 engineering & architectural
 14, 15/177 - Fax: 411286 - AMMAN - JORDAN

**VISITOR CENTER
 ELECTRICAL WORKS**

Sheet: 1/100
 Drawing No.: VC.E-001

Project:
Tourism Sector Development Project
In the Hashemite Kingdom of Jordan

Executing Agency:
The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:
Karak Tourism Development Project
Visitors Center

Note:
This detailed design has been executed by
a team of consultants as shown below in
accordance with the agreement between
Japan International Cooperation Agency
(JICA) and JICA Study Team.
The copyright of this drawing rests with
JICA.

NOTE:

- 1- ALL DIMENSIONS ARE IN mm.
- 2- CONTRACTOR SHALL COORDINATE ALL CEILING
DIFFUSERS WITH RELATED CEILING PLANS.
- 3- CONTRACTOR SHALL CALCULATE SUPPLY AND
EXTRACT FAN STATIC PRESSURE UPON FINAL SELECTION
OF EQUIPMENT. PRESSURE LOSS SHALL INCLUDE ALL
AIR INLETS AND OUTLETS, DAMPERS, FLOWM, DUCT
WORK, FILTERS AND COILS.
- 4- CONTRACTOR SHALL REFER TO SWACNA IN ORDER
TO IDENTIFY ALL REQUIRED NOISE CRITERIA (N_c)
FOR EACH SPACE.
- 5- PREVAILING WIND DIRECTION SHALL BE CONSIDERED
WHILE LOCATING FRESH AIR INTAKES TO PREVENT ANY
EXHAUST MIGRATION INTO FRESH AIR INTAKES.
- 6- ALL A/C EQUIPMENTS SHALL BE SELECTED UPON
FOOT OUTSIDE TEMPERATURE.

LEGEND:

- SCD : SUPPLY CEILING DIFFUSER
- ROD : RETURN CEILING GRILL
- EF : EXTRACT FAN
- FA : FRESH AIR
- HP1 : SPLIT HEAT PUMP INDOOR UNIT
- HP0 : SPLIT HEAT PUMP OUTDOOR UNIT
- H/A : HIGH LEVEL
- I/A : TO ABOVE
- F/B : FROM BELOW
- I/B : TO BELOW
- Q : SUCTION LINE
- L : LIQUID LINE
- E : ELECTRICAL CONNECTION
- FE2 : FIRE EXTINGUISHER (kg) (2kg)
- FE1 : FIRE EXTINGUISHER (kg) (0.2kg)
- F.D : FLOOR DRAIN
- EX : EXHAUST FAN
- AFC : ABRU FLASE CEILING
- ERT : ROOM THERMOSTAT


Designed by:

Japan International Cooperation
Agency (JICA)

JICA Study Team:

Joint Venture of
Pacific Consultants International and
Yamashita Saitoh Inc.

Subcontracted Local Consultant:

 consolidated consultants
engineering & environment
Tel. 011227 - Fax 011230 - AMMAN - JORDAN

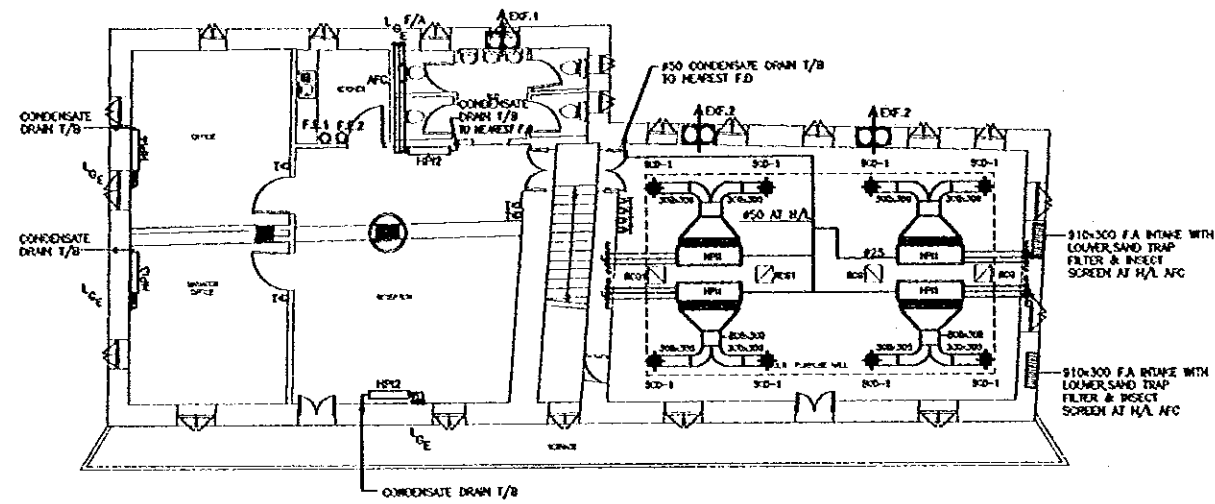
MECHANICAL WORKS

Drawing Title:

Scale:
1/100

Drawing No.:
VC.M-001

18/12/1999



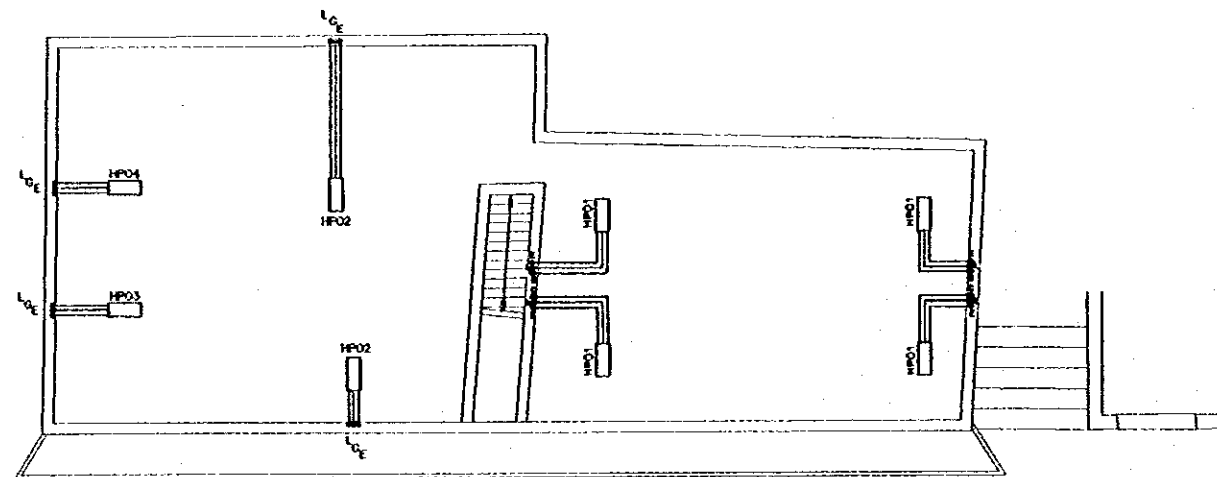
FIRST FLOOR PLAN HVAC LAYOUT
(1:100)

No.	SERVED AREA	COOLING COIL				HEATING CAPACITY		SUPPLY FAN		EST. COMP. POWER	MOC No.		TYPE
		DRY AIR TEMP. DB C	WET AIR TEMP. WB C	DRY AIR TEMP. DB C	WET AIR TEMP. WB C	kw	kw	ESTM. CURR. OF WIRE	ESTM. OHP. kw		kw	NORMAL	
HP1	MULTI PURPOSE HALL	29.5	19.5	16.2	12.8	6.982	11.156	8.448	5.0	0.075	3.58	N	DUCTED
HP2	RECEPTION	23.5	15.3	15.0	12.1	6.302	7.886	7.960	-	-	3.87	N	DECORATIVE WALL MOUNTED
HP3	MANAGER OFFICE	24.1	15.6	16.0	10.9	6.340	8.100	7.001	-	-	3.87	N	DECORATIVE WALL MOUNTED
HP4	OFFICE	23.8	15.5	15.9	12.1	6.481	7.812	7.123	-	-	3.87	N	DECORATIVE WALL MOUNTED

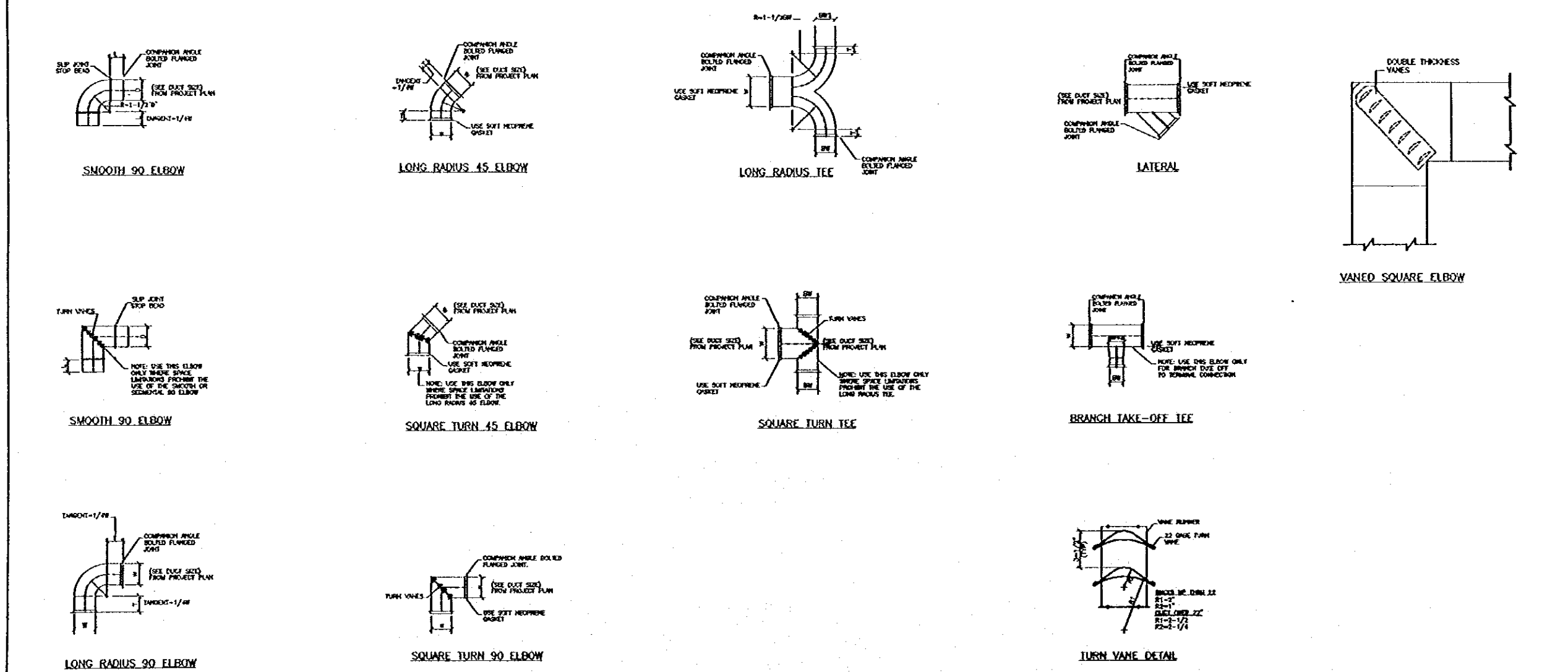
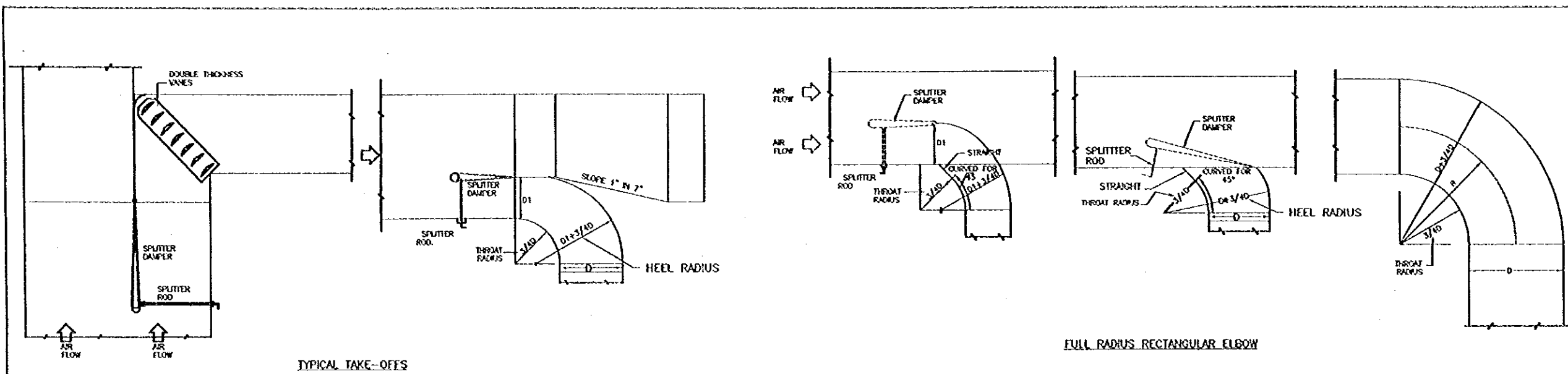
FAN NO.	LOCATION	SERVED AREA	CAPACITY L/SEC	ESTM. TOTAL SPmmH2O	ESTM. kw	M.C.C. NO.		REMARKS
						NORMAL	EMERGENCY	
EF-1	WALL	TOILETS	100	-	0	N		WALL MOUNTED WITH AUTOMATIC SHUTTER
EF-2	WALL	MULTI PURPOSE HALL	300	-	0.040	N		WALL MOUNTED WITH AUTOMATIC SHUTTER

DIFFUSER NO.	AIR FLOW L/SEC	SERVED AREA	NECK SIZE MMxMM	THROW M	NO.	QTY	TYPE

GRILLE No.	SIZE mmxmm	QTY	TYPE



ROOF PLAN HVAC LAYOUT
(1:100)



DETAILS OF THE INSTALLATION OF THE MEDIUM PRESSURE DUCT LAYOUT

Project:
Tourism Sector Development Project
In the Hashemite Kingdom of Jordan

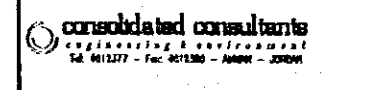
Executing Agency:
The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:
Karak Tourism Development Project
Visitors Center

Note:
This detailed design has been executed by a team of consultants as shown below in accordance with the agreement between Japan International Cooperation Agency (JICA) and JICA Study Team. The copyright of this drawing rests with JICA.

Designed by:
Japan International Cooperation Agency (JICA)
JICA Study Team:
Joint Venture of Pacific Consultants International and Yamashita Seldel Inc.

Subcontracted Local Consultant:



MECHANICAL DETAILS

Drawing Title

Drawing No. VC.M-002

Date: N.T.S.

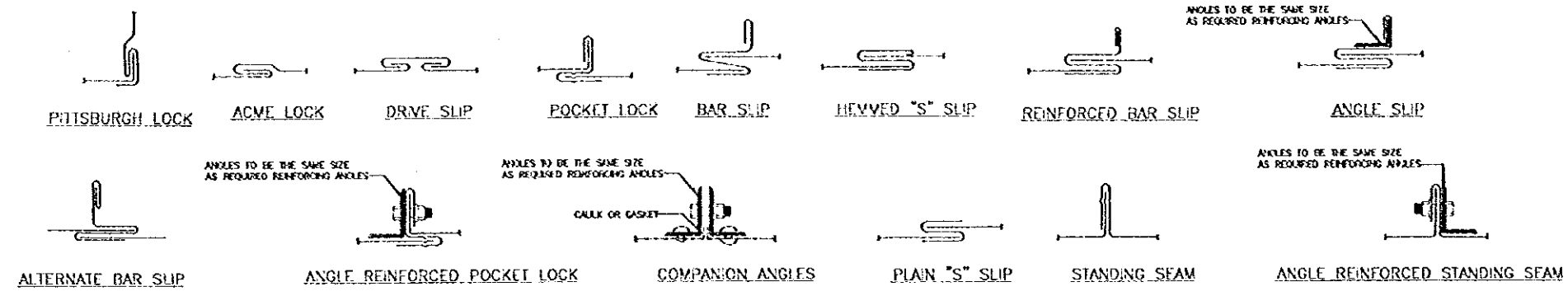
Project:
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

Executing Agency
The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:
Karak Tourism Development Project
Visitors Center

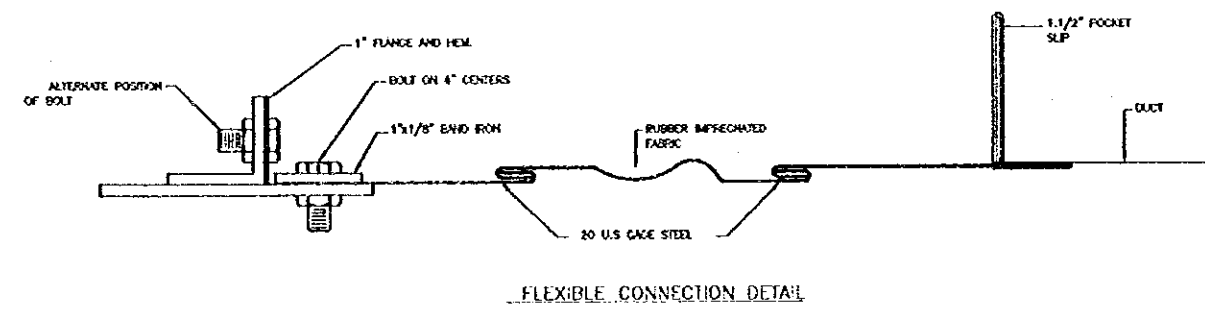
Note:
This detailed design has been executed by a team of consultants as shown below in accordance with the agreement between Japan International Cooperation Agency (JICA) and JICA Study Team.
The copyright of this drawing rests with JICA.

- INSTALLATION NOTES**
1. SET UNIT GOOD LEVEL BOTH DIRECTION-CHECK WITH CARBONETER LEVEL.
 2. LUBRICATE FANS & MOTORS AS RECOMMENDED BY THE MANUFACTURER.
 3. CHECK OUT ALL CONTROLS AFTER START-UP.
 4. DRAINAGE THE UNIT WITH CONCRETE BASE ACCOMPANIED BY ANTI-VIBRATION PADS.
- NOTE:**
- 1- OUT DOOR INSULATION SHALL BE 2" THICK GLASS FIBRE INSULATION COVERED BY LAYERS OF 15 LB FOL HOT MASTIC IN PLACE & THEN COVERED WITH AN ALUMINUM SHEATH OF 0.018" THICKNESS & ALL PIPING AND DUCT WORK EXPOSED TO THE WEATHER SHALL BE INSULATED IN THIS MANNER.
 - 2- THERMOSTAT SHALL HAVE CURRENT CARRYING CAPACITY OF 120% OF INSTALLED WATTAGE OR A CONTRACTOR PANEL SHALL BE INSTALLED.

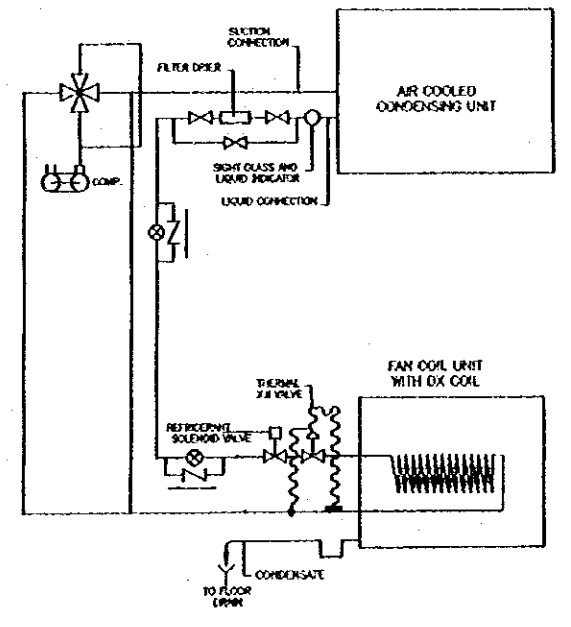


CONSTRUCTION OF RECTANGULAR STEEL DUCTWORK

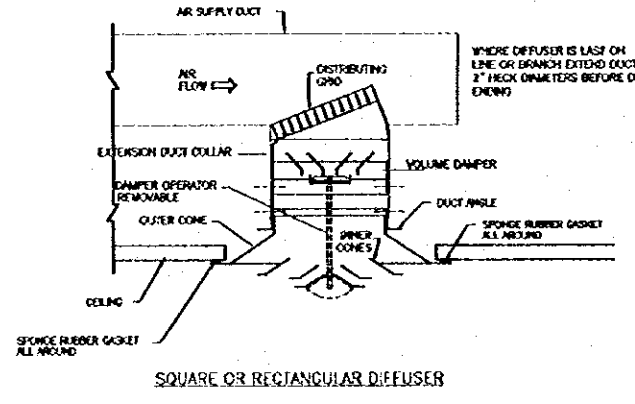
GREATEST DUCT DIMENSION	STEEL DUCTS U.S. STANDARD GAUGE	LONGITUDINAL SEAM	TRANSVERSE JOINT SMALLEST DIMENSION	TRANSVERSE JOINT GREATEST DIMENSION	REINFORCING (ALL DUCTS 18" THRU 54" SHALL BE CROSSBROKEN)
12" OR LESS	26	PITTSBURGH OR ACME LOCK	DRIVE SLIP OR POCKET LOCK OR BAR SLIP	PLAIN "S" SLIP OR POCKET LOCK OR BAR SLIP	NONE REQUIRED
13" THRU 18"	24	PITTSBURGH OR ACME LOCK	DRIVE SLIP OR POCKET LOCK OR BAR SLIP	PLAIN "S" SLIP OR POCKET LOCK OR BAR SLIP	NONE REQUIRED
19" THRU 30"	24	PITTSBURGH OR ACME LOCK	HEAVYED "S" SLIP OR BAR SLIP OR DRIVE SLIP OR 1" POCKET LOCK	HEAVYED "S" SLIP OR BAR SLIP OR POCKET LOCK	IF TRANSVERSE JOINTS ARE LOCATED 4'-0" OR LESS ON CENTER NO REINFORCING IF ON 8'-0" CENTERS REINFORCE WITH 1"x1 1/2" ANGLE AT 4 FT. O.C. FASTENED TO DUCT ON 8" CENTERS
31" THRU 42"	22	PITTSBURGH OR ACME LOCK	DRIVE SLIP, IF 18" OR LESS BAR SLIP, REINFORCED BAR SLIP, OR POCKET LOCK	BAR SLIP OR REINFORCED BAR SLIP OR POCKET LOCK	IF TRANSVERSE JOINTS ARE LOCATED 4'-0" OR LESS ON CENTER NO REINFORCING IF ON 8'-0" CENTERS REINFORCE WITH 1"x1 1/2" ANGLE AT 4 FT. O.C. FASTENED TO DUCT ON 8" CENTERS
43" THRU 54"	22	PITTSBURGH LOCK	1 1/4" BAR SLIP, OR REINFORCED BAR SLIP, OR 1 1/2" POCKET LOCK	1 1/4" BAR SLIP, OR REINFORCED BAR SLIP, OR 1 1/2" POCKET LOCK	IF TRANSVERSE JOINTS ARE LOCATED 4'-0" OR LESS ON CENTER NO REINFORCING IF ON 8'-0" CENTERS REINFORCE WITH 1"x1 1/2" ANGLE AT 4 FT. O.C. FASTENED TO DUCT ON 8" CENTERS
55" THRU 60"	20	PITTSBURGH LOCK	1 1/4" BAR SLIP, OR REINFORCED BAR SLIP, OR 1 1/2" POCKET LOCK	1 1/4" BAR SLIP, OR REINFORCED BAR SLIP, OR 1 1/2" POCKET LOCK	IF TRANSVERSE JOINTS ARE LOCATED 4'-0" OR LESS ON CENTER NO REINFORCING IF ON 8'-0" CENTERS REINFORCE WITH 1"x1 1/2" ANGLE AT 4 FT. O.C. FASTENED TO DUCT ON 8" CENTERS
61" THRU 84"	20	PITTSBURGH LOCK	REINFORCED BAR SLIP, OR ANGLE SLIP, ALTERNATE BAR SLIP, OR ANGLE REINFORCED POCKET LOCK	REINFORCED BAR SLIP, OR ANGLE SLIP, ALTERNATE BAR SLIP, OR ANGLE REINFORCED POCKET LOCK	REINFORCE ALL SIDES OVER 60" WITH 1 1/2"x1 1/2"x1/8" ANGLE ON 2'-0" CENTERS. SIDES UNDER 60" NEED NO REINFORCING IF JOINTS ARE ON 4'-0" CENTERS. IF JOINTS ARE ON 8'-0" CENTERS REINFORCE WITH 1 1/2"x1 1/2"x1/8" ANGLE ON 4'-0" CENTERS.
85" THRU 96"	18	PITTSBURGH LOCK	1 1/2" COMPANION ANGLE, OR ANGLE REINFORCED POCKET LOCK, OR 1 1/2" ANGLE SLIP, OR REINFORCED BAR SLIP	1 1/2" COMPANION ANGLE, OR ANGLE REINFORCED POCKET LOCK, OR 1 1/2" ANGLE SLIP, OR REINFORCED BAR SLIP	REINFORCE ALL SIDES OVER 84" WITH 1 1/2"x1 1/2"x1/8" ANGLE ON 2'-0" CENTERS. SIDES 81" THRU 84" REINFORCE WITH 1 1/2"x1 1/2"x1/8" ANGLE ON 2'-0" CENTERS. SIDES 60" OR LESS NEED NO REINFORCING IF JOINTS ARE ON 4'-0" CENTERS. IF JOINTS ARE ON 8'-0" CENTERS REINFORCE WITH 1 1/2"x1 1/2"x1/8" ANGLE ON 4'-0" CENTERS.
OVER 96"	18	PITTSBURGH LOCK	2" COMPANION ANGLE, OR 2"x2 1/2"x1/4" ANGLE SLIP, OR 2"x2 1/2"x1/4" ANGLE REINFORCED POCKET LOCK, OR REINFORCED BAR SLIP	2" COMPANION ANGLE, OR 2"x2 1/2"x1/4" ANGLE SLIP, OR 2"x2 1/2"x1/4" ANGLE REINFORCED POCKET LOCK, OR REINFORCED BAR SLIP	REINFORCE ALL SIDES OVER 96" WITH 2"x2 1/2"x1/4" ANGLE ON 2'-0" CENTERS. REINFORCE ALL SIDES 85" THRU 96" WITH 1 1/2"x1 1/2"x1/8" ANGLE ON 2'-0" CENTERS. REINFORCE ALL SIDES 61" THRU 84" WITH 1 1/2"x1 1/2"x1/8" ANGLE ON 2'-0" CENTERS. REINFORCE ALL SIDES UNDER 60" WITH 1 1/2"x1 1/2"x1/8" ANGLE IF JOINTS ARE 8'-0" ON CENTER. NO REINFORCING IF JOINTS ARE 4'-0" ON CENTER.



FLEXIBLE CONNECTION DETAIL



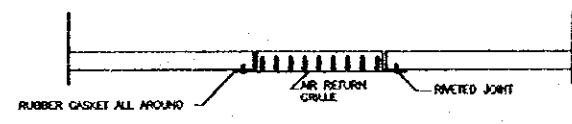
SPLIT A/C HEAT PUMP SYSTEM.



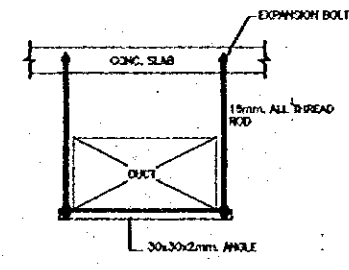
SQUARE OR RECTANGULAR DIFFUSER

- INSTALLATION NOTES**
- 1- CONNECT AIR DISTRIBUTION GRID EXTENSION DUCT COLLAR.
 - 1- FASTEN EXTENSION DUCT COLLAR AND DISTRIBUTION GRID ASSEMBLY TO OUTWORK WITH SHEET METAL SCREWS.
 - 3- AFTER CEILING OR WALL IS INSTALLED, INSTALL DIFFUSER WITH SHEET METAL SCREWS.
 - 4- CHECK TO SEE IF SPONGE RUBBER GASKET IS DOWN UP AGAINST WALL OR CEILING FORMING AN TIGHT SEAL, IF NOT REASSEMBLE AND RECHECK.
 - 5- SET DAMPER FOR BEST ROOM DISTRIBUTION.
 - 6- BALANCE AND ADJUST AIR FLOW QUANTITIES SHOWN ON PLANS.
 - 7- CLEAN OBSTRUCTION DIRT FROM DIFFUSER.
 - 8- REMOVE DAMPER OPERATOR FROM DIFFUSER AND TURN OVER TO OWNER'S REPRESENTATIVE.

DETAILS OF THE INSTALLATION OF THE AIR SUPPLY DIFFUSER



RETURN GRILLE INSTALLATION



SINGLE RECTANGULAR DUCT

DETAILS OF THE INSTALLATION OF HANGERS AND SUPPORTS FOR DUCTWORK

Designed by:
Japan International Cooperation Agency (JICA)
JICA Study Team:
Joint Venture of Pacific Consultants International and Yamasa Sekkel Inc.
Subcontracted Local Consultant:

consolidated consultants
engineering & environment
14, 9P1277 - Fax 952.800 - AMM - JICA

MECHANICAL DETAILS

Drawing Title:

Scale: N.T.S.

Drawing No: VC.W-003

JICA