

CODE OF PRACTICE

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

DIMENSIONS

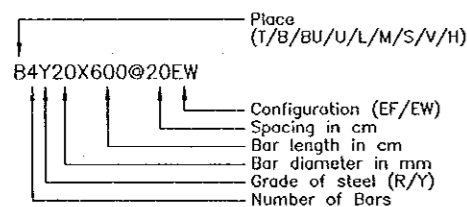
All Dimensions are in Centimetres.

DRAWINGS

- Structural drawings shall be read in conjunction with Architectural, Mechanical and Electrical drawings.
- Sleeves 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,I,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 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 - 0.60
C30 - 0.55

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.

FOUNDATIONS

*- Blinding layer of footings is positioned at (1m) beneath natural ground level

The foundations are designed for an allowable bearing capacity equal to 400,00 KPa at an approximate depth of 1.5m below the finished level of ground surrounding the structure, and 250 KPa at depth more than 1.5m

The foundations are designed to hold load from 1 storey and a basement in restaurant

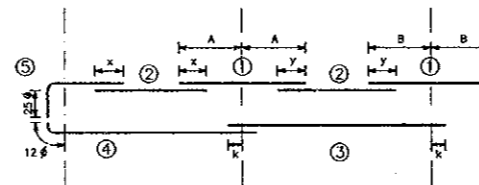
It is the responsibility of the Contractor to ensure that this bearing capacity is achieved at site with respect to the location of footing.

*-Backfill behind basement walls is not allowed before probing of slab to walls.

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:

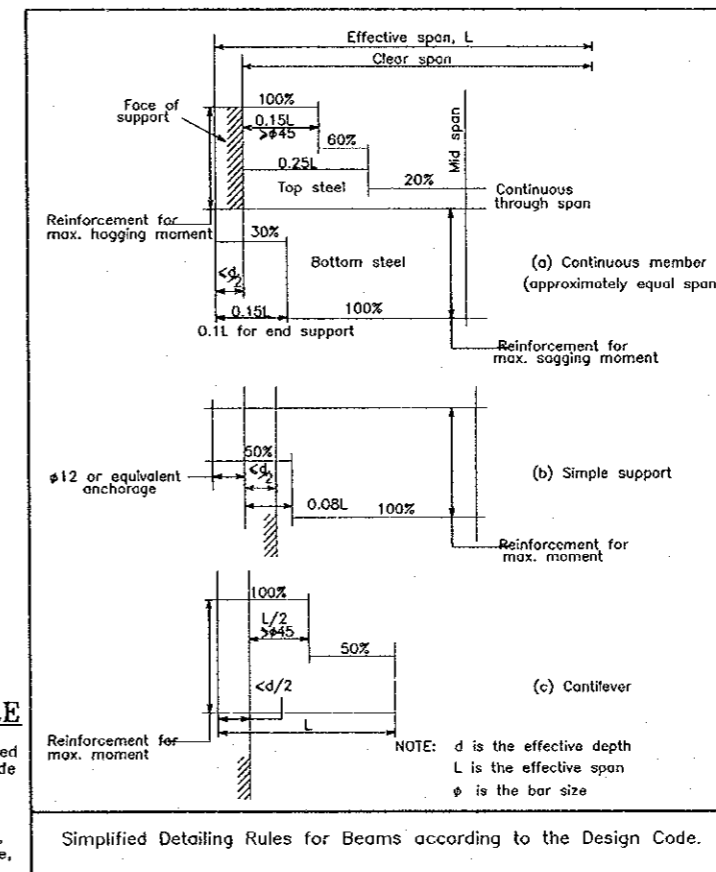
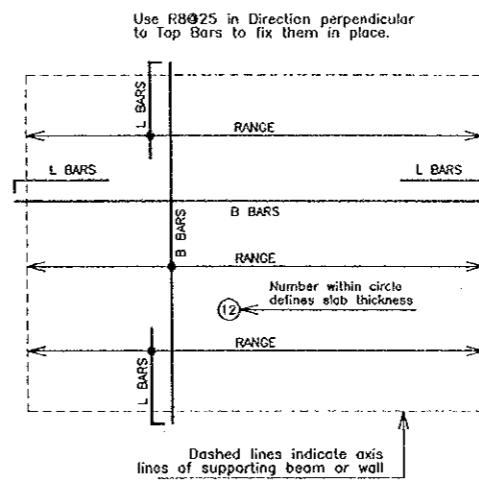
- Top bars at interior supports shall be placed centrally on the support axis lines, for approximately equal span.
- Top bars in spans shall be placed to lap equal lengths with support top bars at both left and right.
- Bottom bars in interior spans shall be placed to extend equal lengths beyond support 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.

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.

Notation Employed for Solid Slab Panels



Project:
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in the Hashemite Kingdom of Jordan

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

SUB-PROJECT:
Dead Sea Panoramic Complex

Note:
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JICA Study Team:

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Subcontracted Local Consultant:

consolidated consultants
ENGINEERING & ARCHITECTURE
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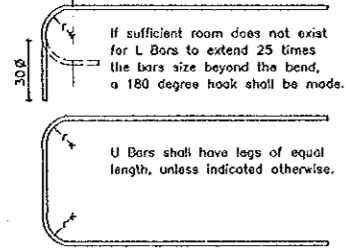
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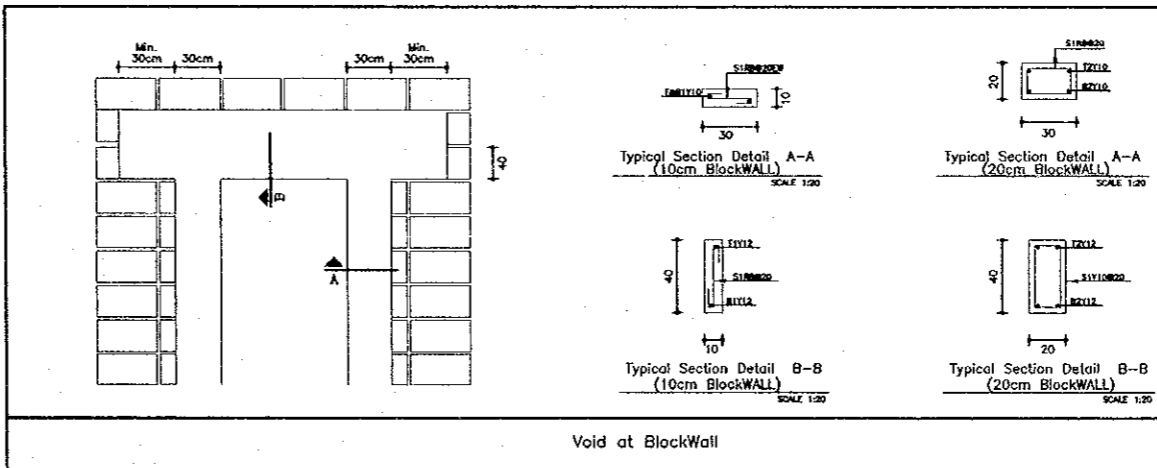
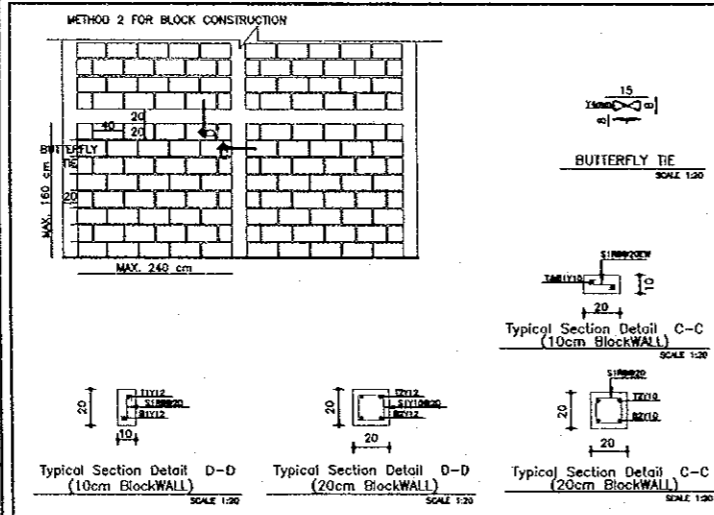
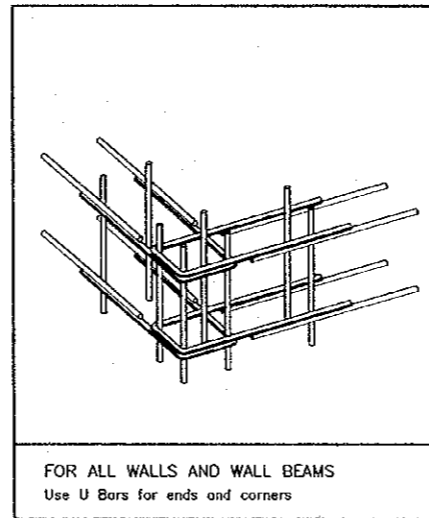
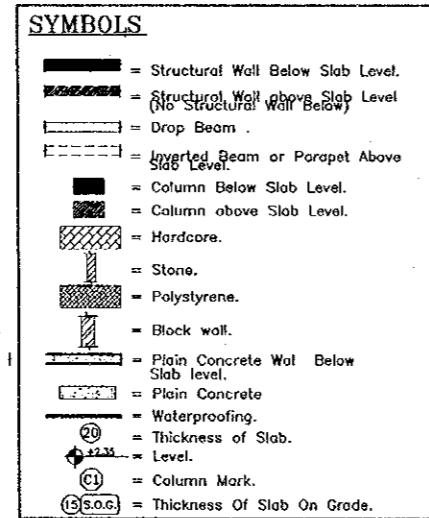
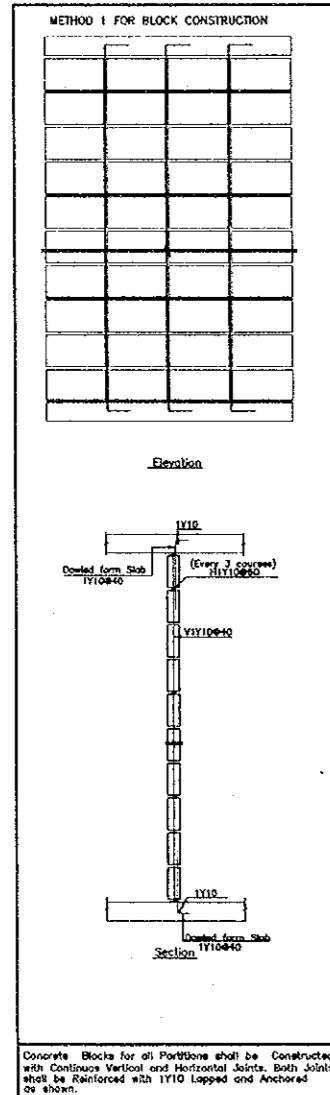
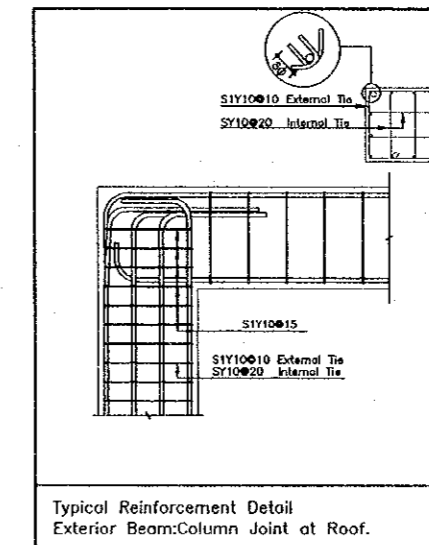
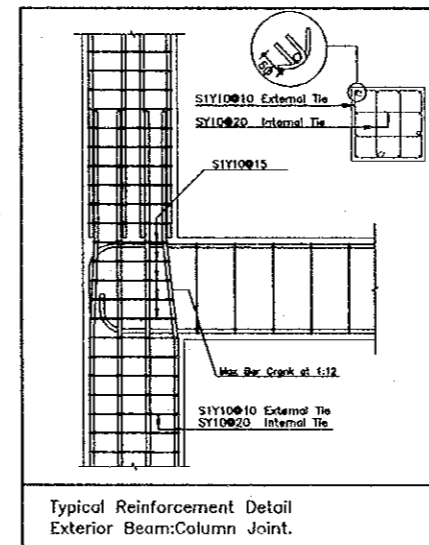
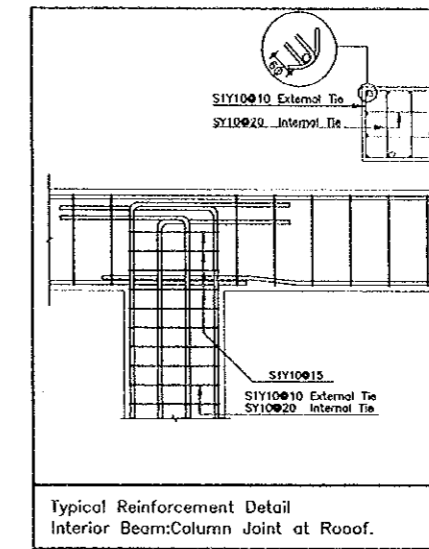
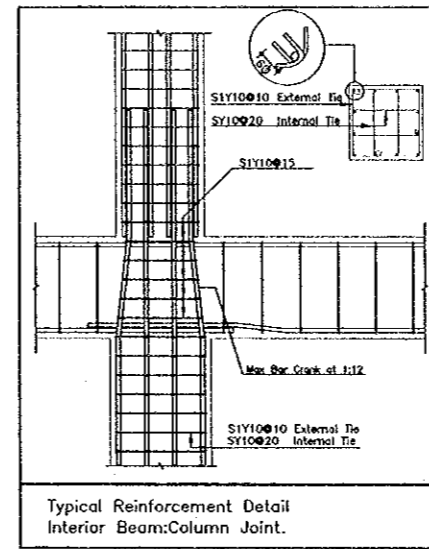
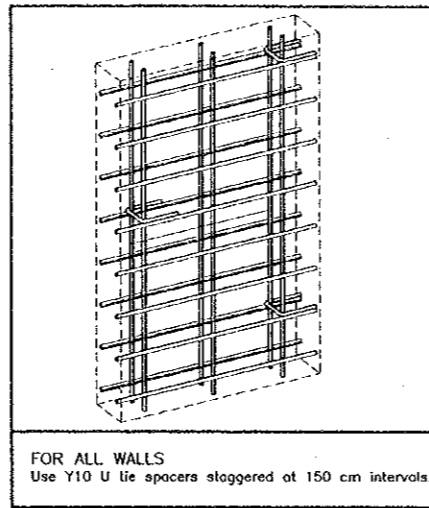
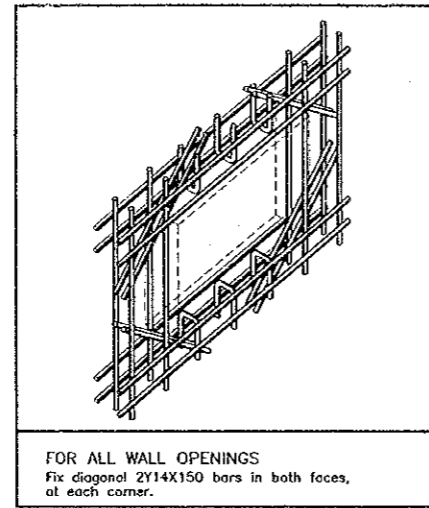
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RADI OF BENDING

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 Mild 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



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

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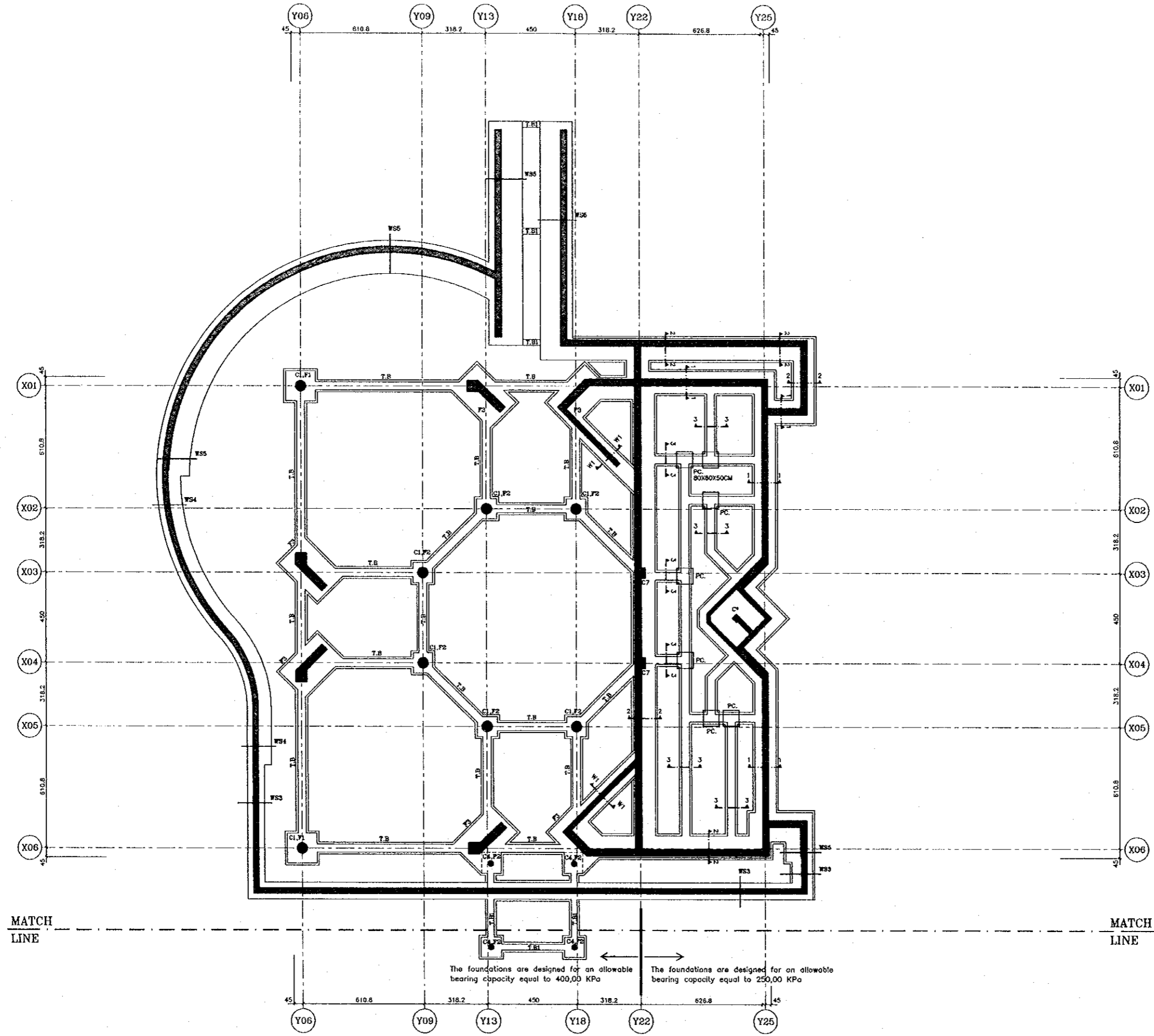
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STRUCTURAL NOTES-2

Drawing Title:

Scale: N.T.S. Drawing No.: DSPC.S-002



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The foundations are designed to hold load from 1 storee and a basement in restaurant.



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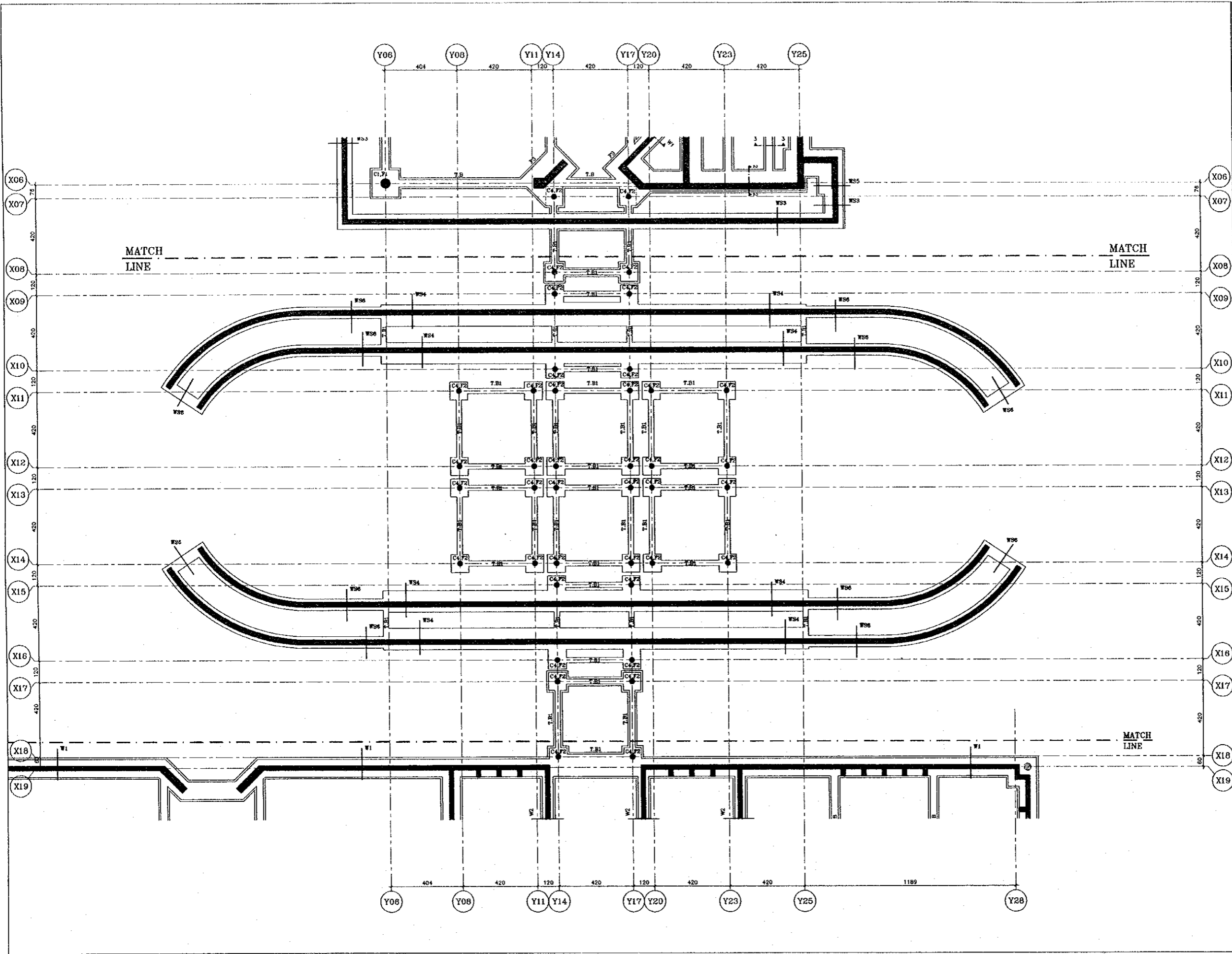


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RESTURANT FOUNDATION PLAN

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The foundations are designed to hold load from 1 storey.



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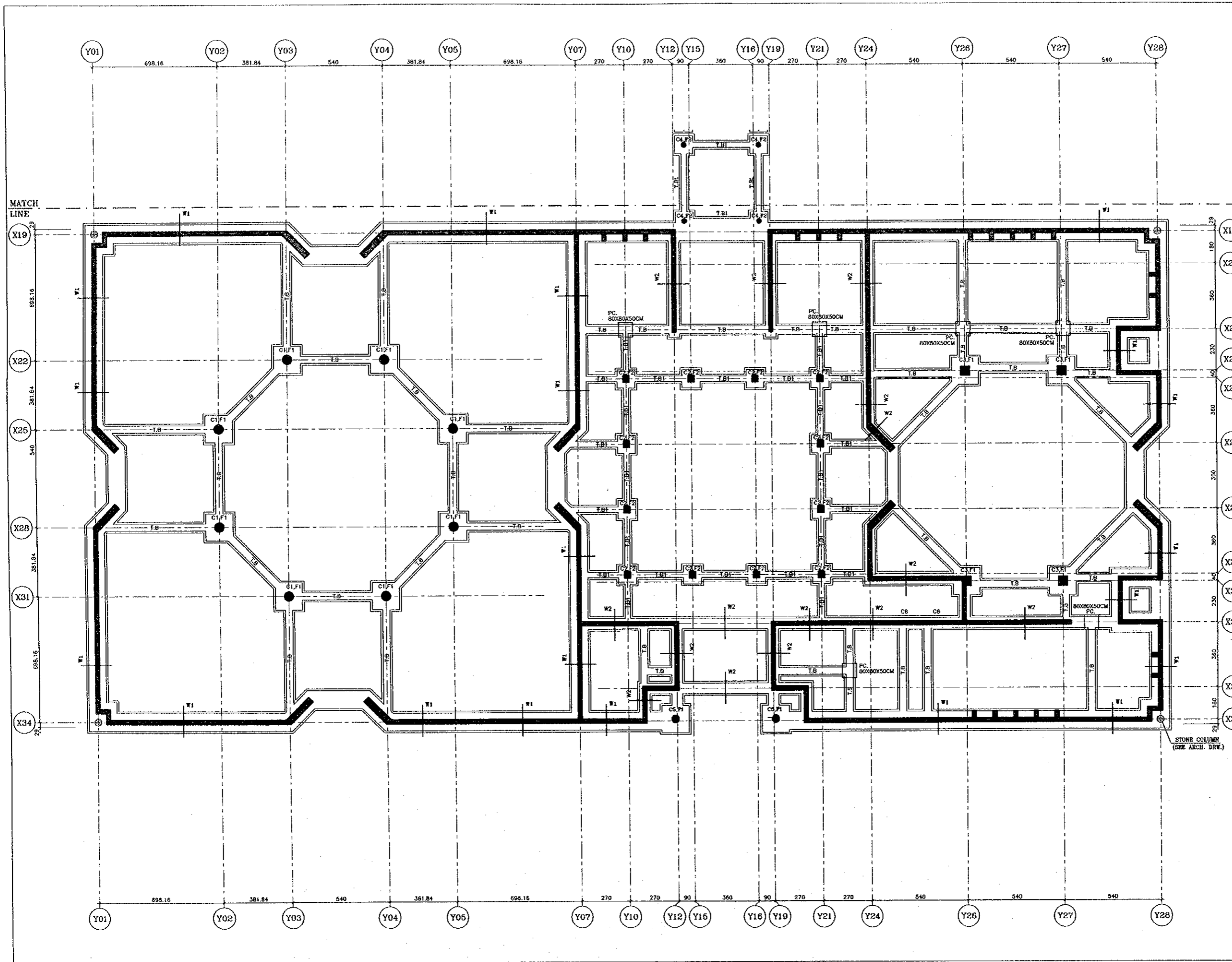
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CORRIDOR PANELS FOUNDATION PLAN
Drawing Title:

Scale: 1/100
Drawing No.: DSPCS-004

101

101



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X19 The foundations are designed for an allowable bearing capacity equal to 400,00 kPa at an approximate depth of 1.5m below the finished level of ground surrounding the structure.

X20 The foundations are designed to hold load from 1 storey.

X21

X22

X23

X24

X25

X26

X27

X28

X29

X30

X31

X32

X33

X34

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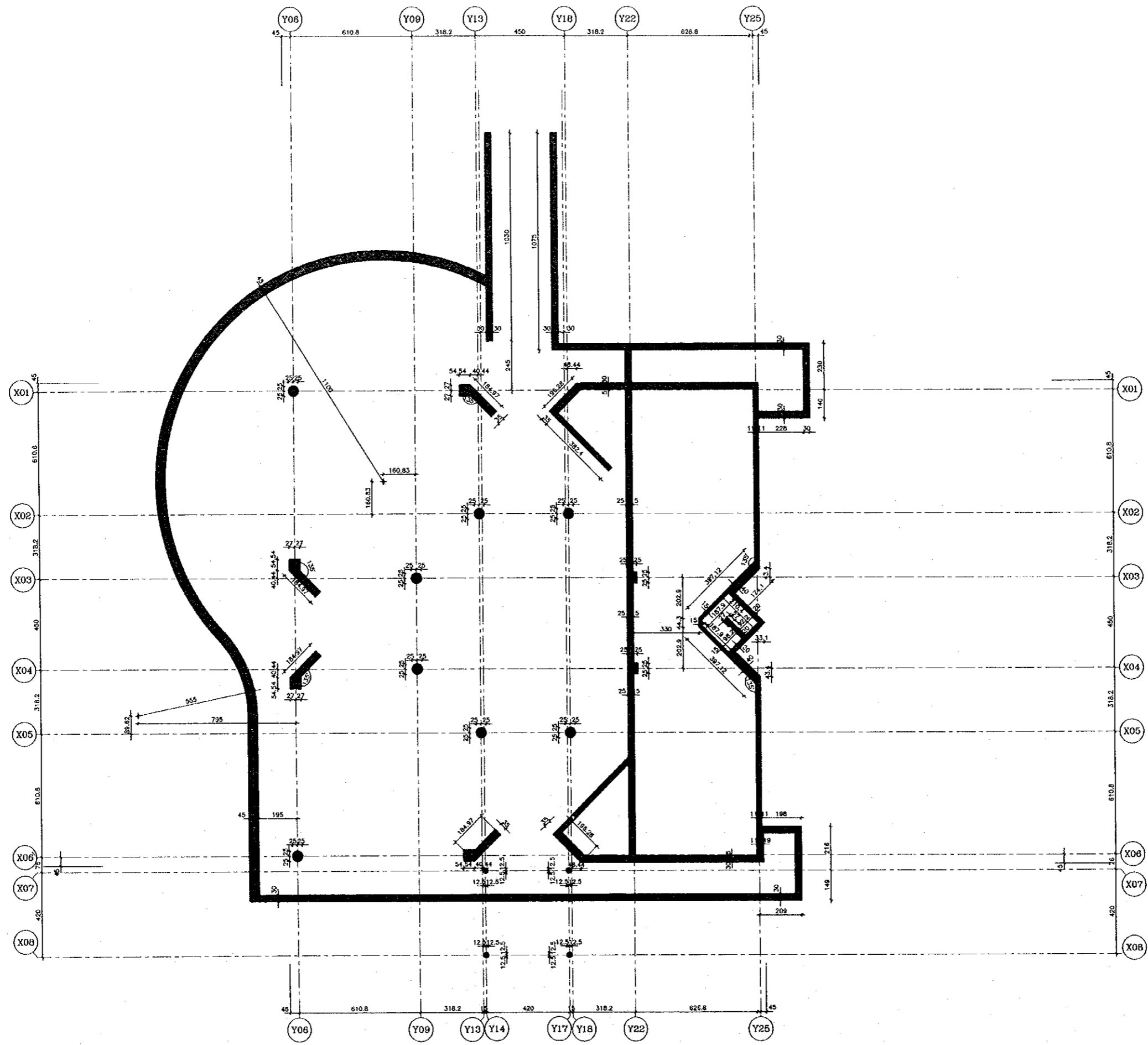
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MUSEUM FOUNDATION PLAN

Drawing Title:

Scale: 1/100 **Drawing No.:** DSPC.S-005





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Drawing Title: RESTURANT
 AXIS PLAN

Scale: 1/100
Drawing No.: DSPC.S-006

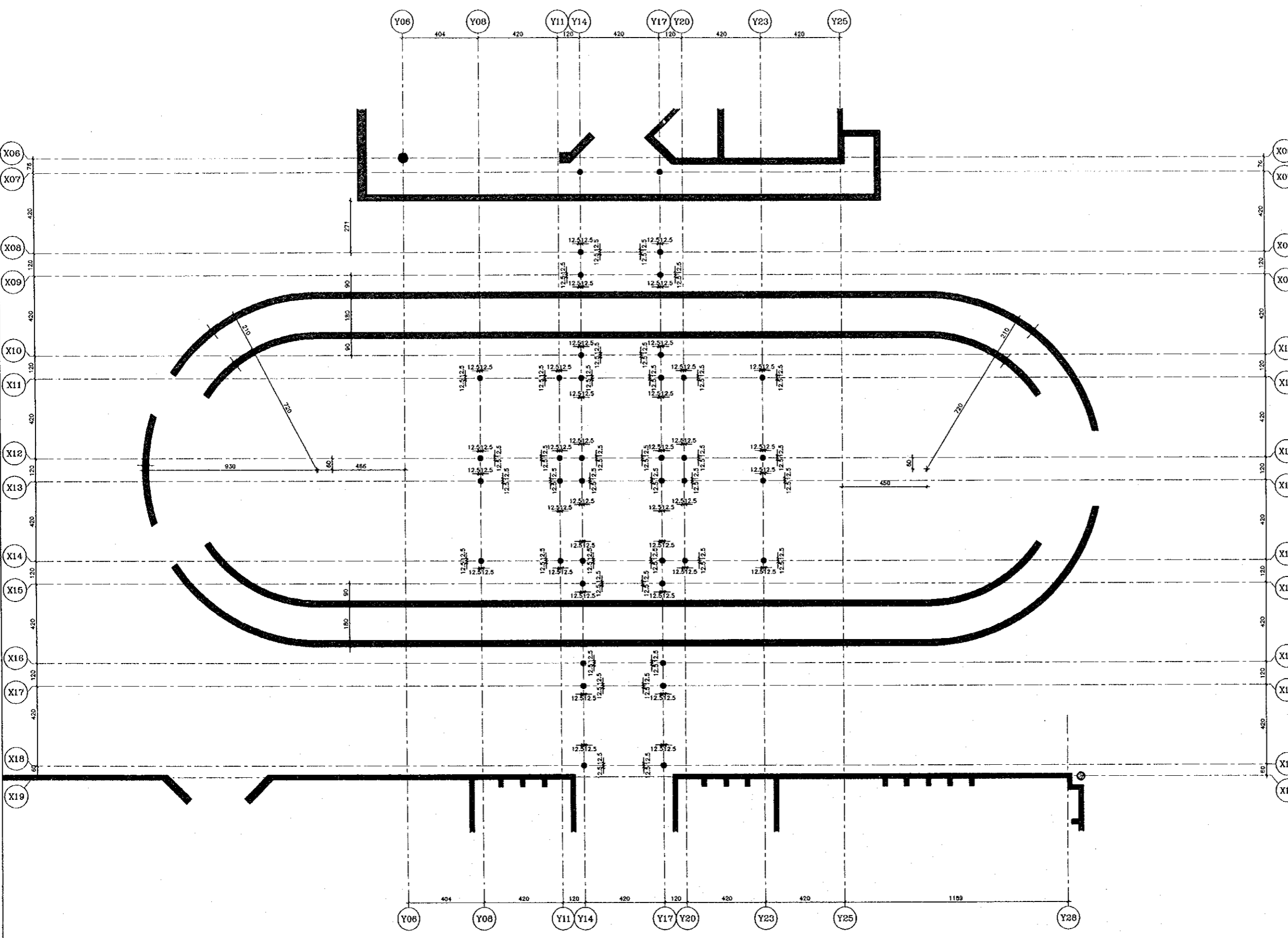
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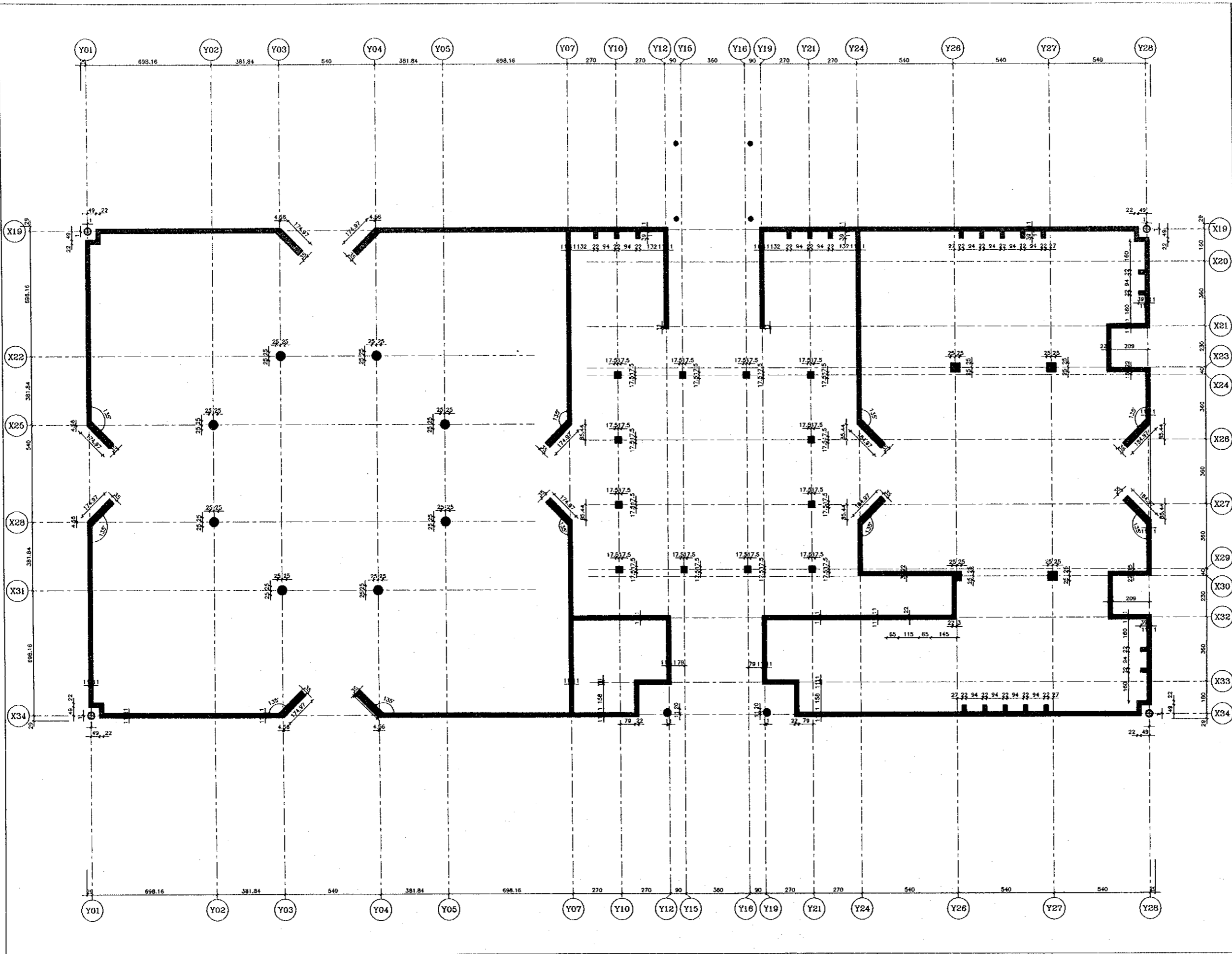
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Drawing Title:
**CORRIDOR PANELS
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Scale:	Drawing No.:	DSPC.S-007
1/100		

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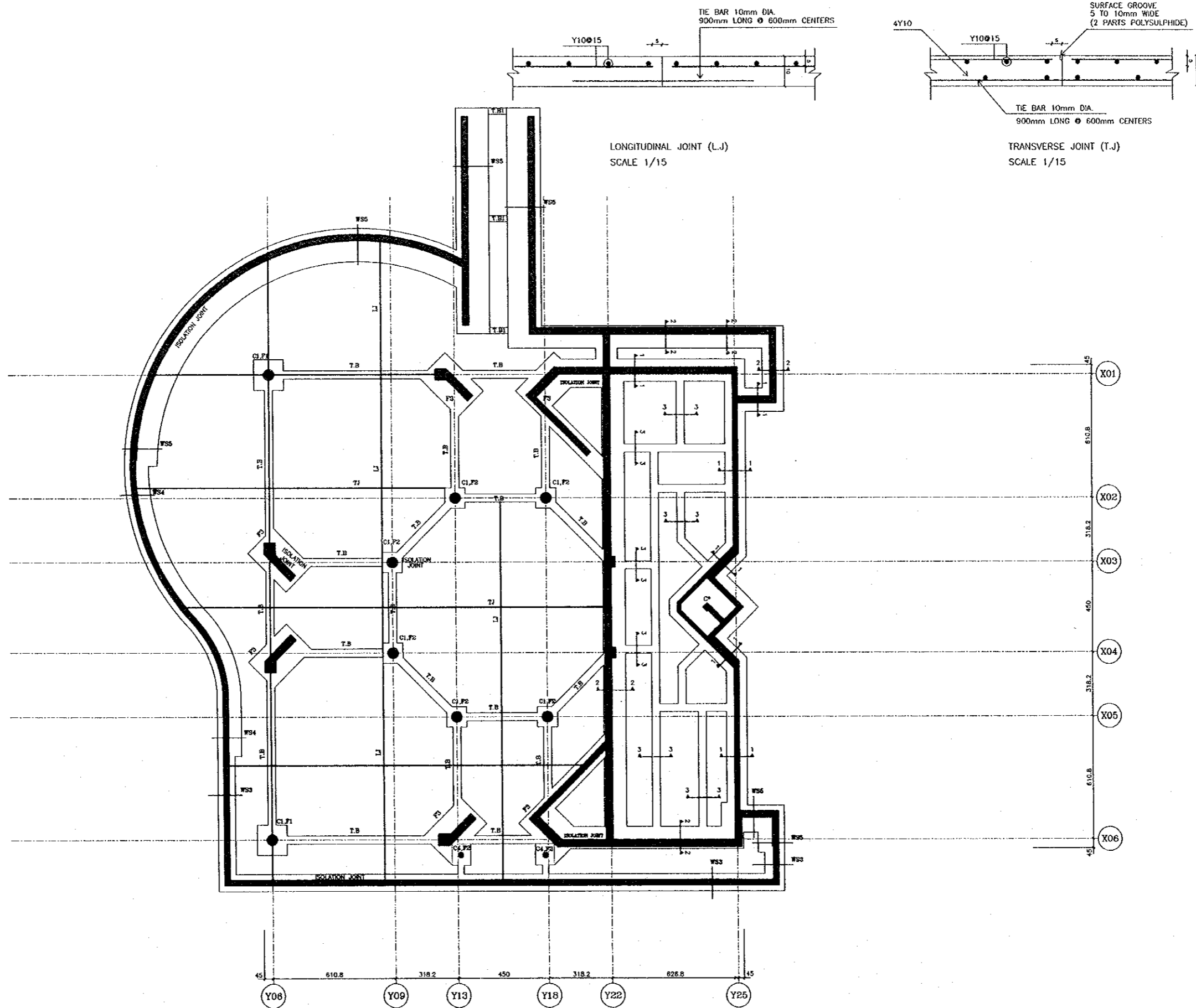
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Drawing Title: MUSEUM
 AXIS PLAN

Scale: 1/100 Drawing No.: DSPC.S-008

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101



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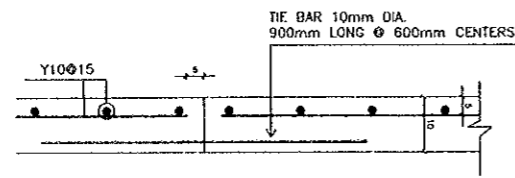
Date: June 2000

**RESTURANT SLAB ON
GRADE PLAN**

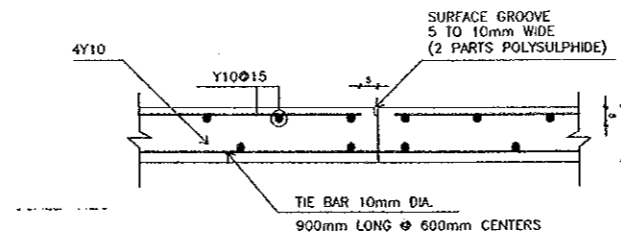
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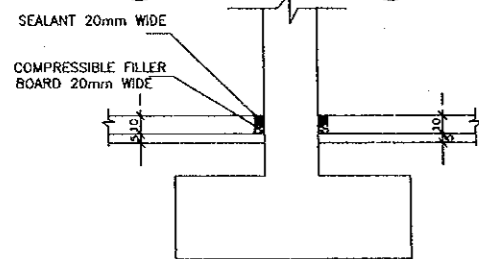
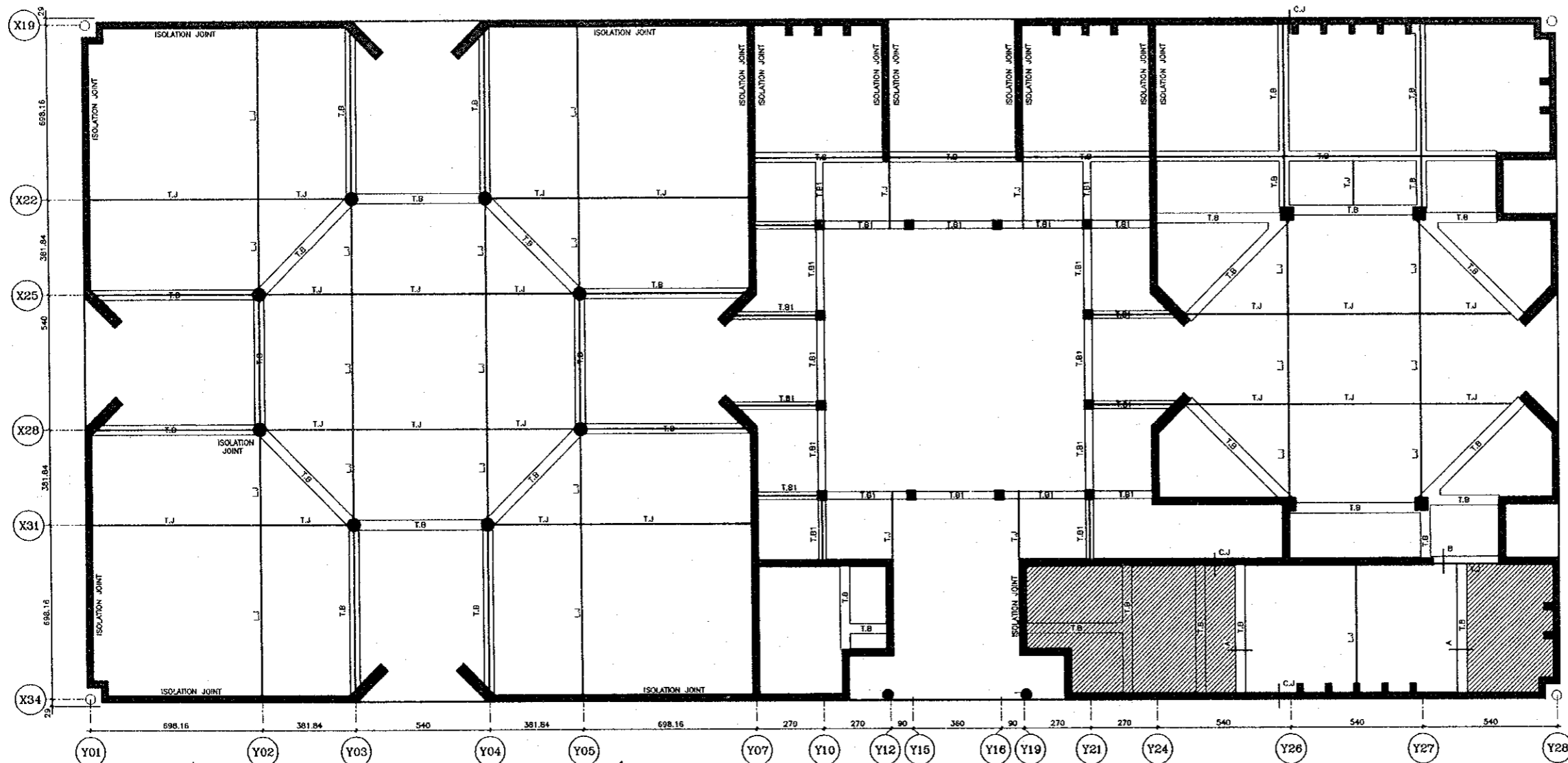
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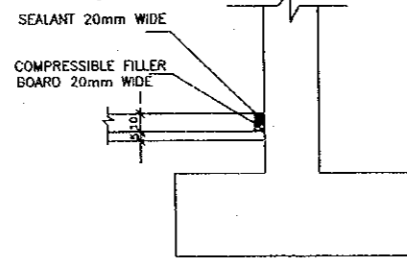
LONGITUDINAL JOINT (L.J)
SCALE 1/15



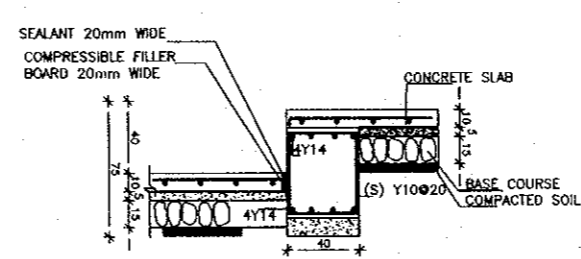
TRANSVERSE JOINT (T.J)
SCALE 1/15



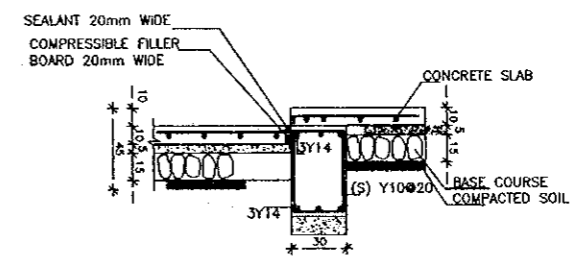
TYPICAL ISOLATION JOINT FOR COLUMNS
SCALE 1:20



TYPICAL ISOLATION JOINT FOR WALLS
SCALE 1:20



SECTION A-A
SCALE 1:20



SECTION B-B
SCALE 1:20

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Date: June 2000

**MUSEUM SLAB ON
GRADE PLAN & DETAILS**
Drawing Title:

Scale: 1/15
1/20
1/100

Drawing No.: DSPC.S-010

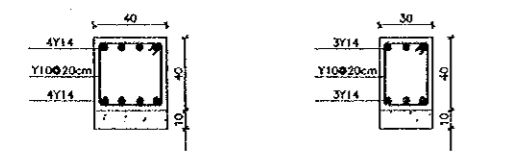
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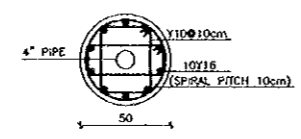
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Dead Sea Panoramic Complex

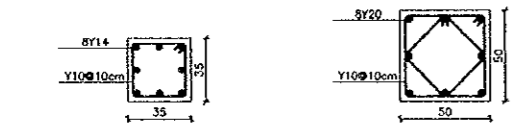
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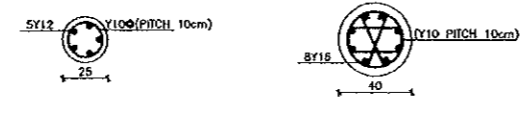
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SECTION THROUGH T.B1 SCALE 1/20



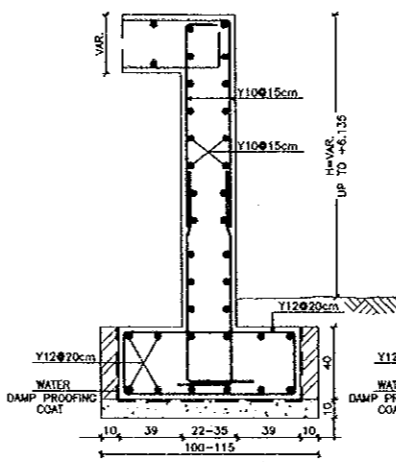
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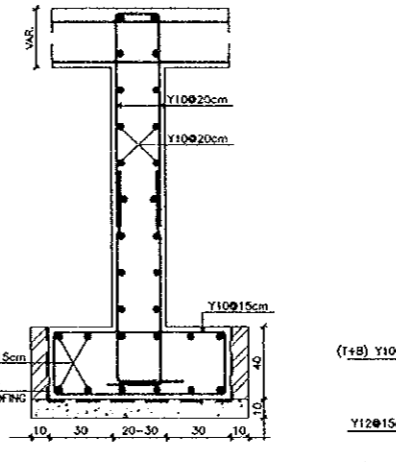
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SECTION THROUGH C3 SCALE 1/20



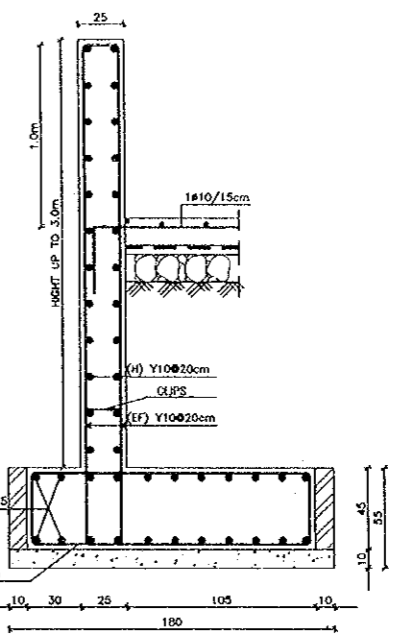
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SECTION THROUGH C5 SCALE 1/20



SECTION THROUGH WALL (W1) SCALE 1/20



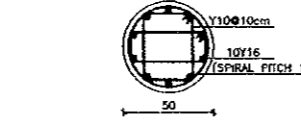
SECTION THROUGH WALL (W2) SCALE 1/20



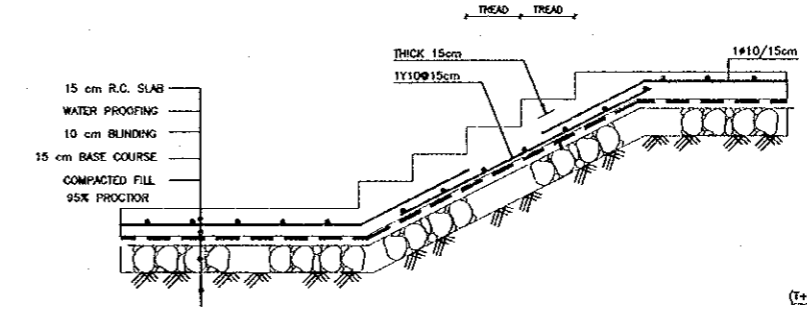
TYPICAL SECTION THROUGH (WS5) SCALE 1/20



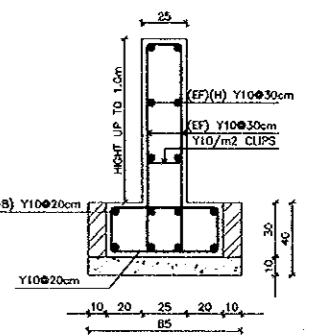
SECTION THROUGH C6 SCALE 1/20
SECTION THROUGH C7 (AT BASEMENT) SCALE 1/20



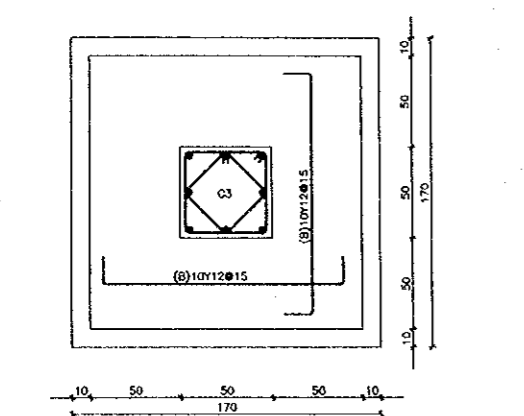
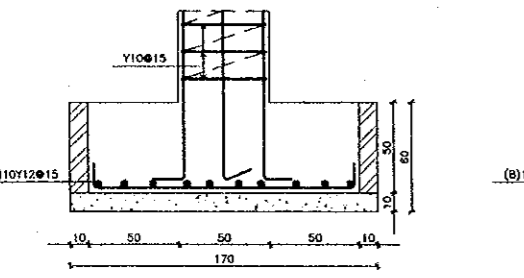
SECTION THROUGH C7 (AT GROUND) SCALE 1/20



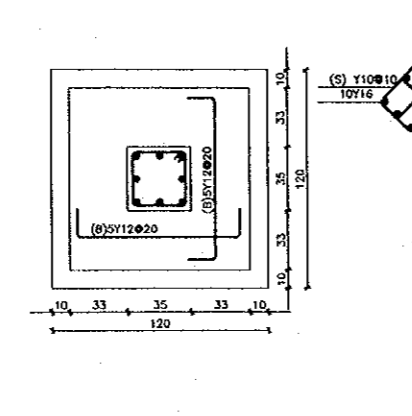
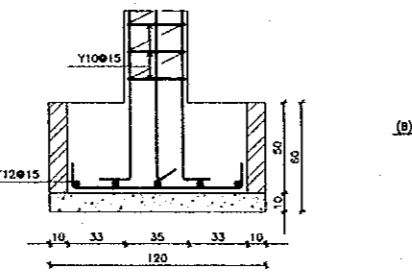
TYPICAL FLIGHT DETAIL SECTION ON GRADE SCALE 1/20



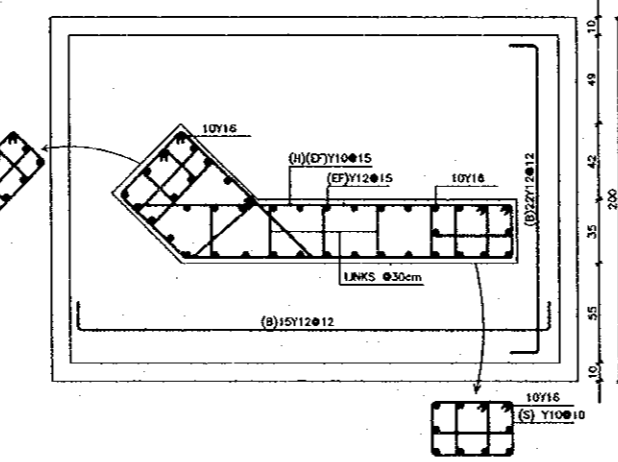
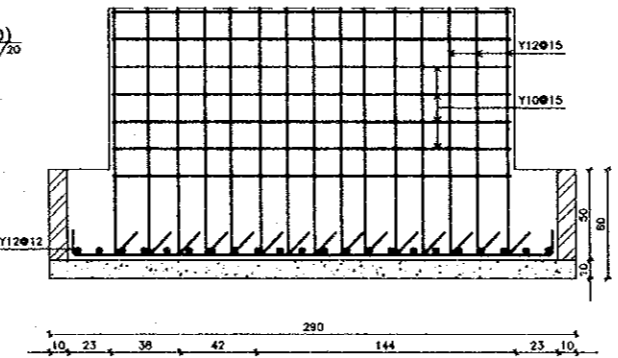
TYPICAL SECTION THROUGH (WS6) SCALE 1/20



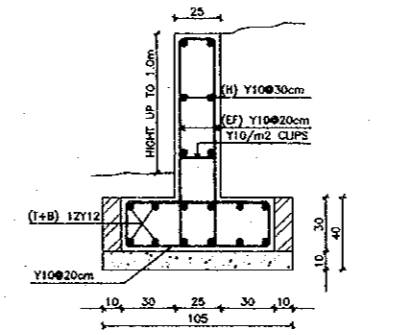
REINFORCEMENT DETAIL (C3,F1) SCALE 1/20



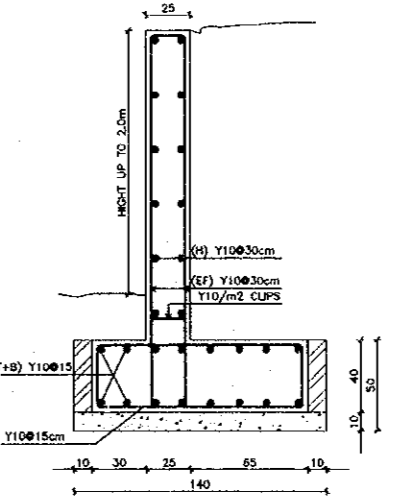
REINFORCEMENT DETAIL (C2,F2) SCALE 1/20



REINFORCEMENT DETAIL (F3) SCALE 1/20



TYPICAL SECTION THROUGH (WS3) SCALE 1/20



TYPICAL SECTION THROUGH (WS4) SCALE 1/20

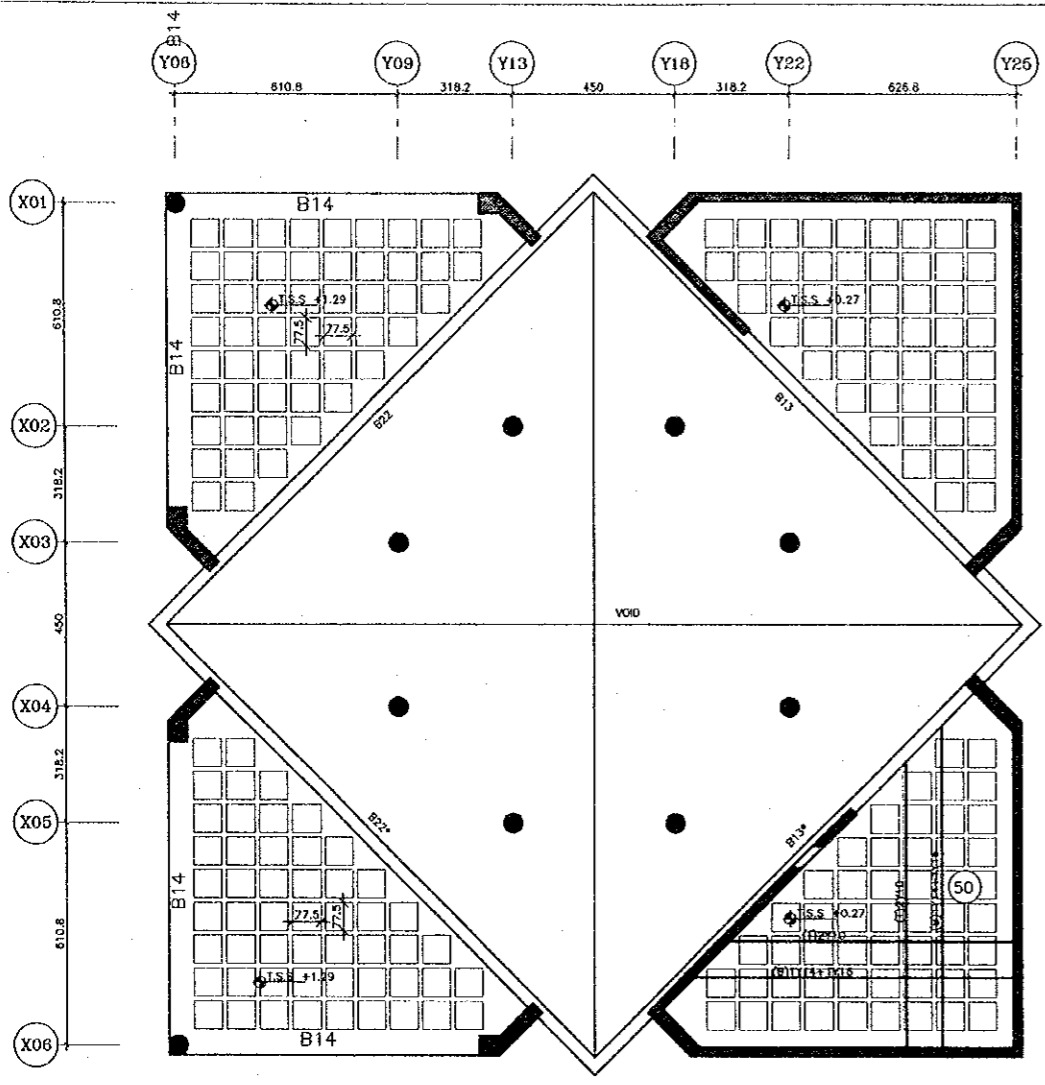
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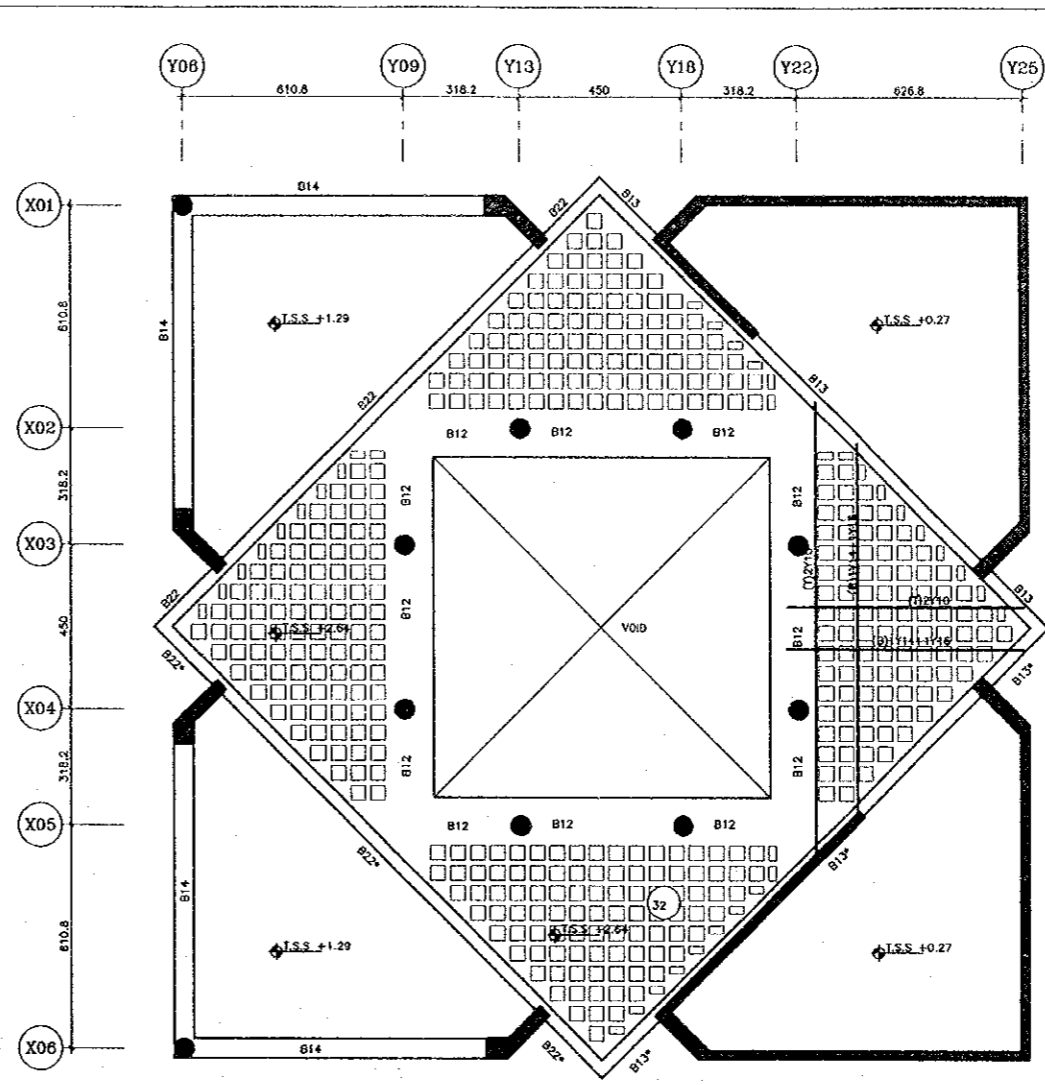
Subcontracted Local Consultant:
consolidated consultants
INCORPORATED
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Date:	June	2000
FOUNDATION STRUCTURAL DETAILS		
Drawing Title:		
Scale:	Drawing No.:	DSPCS-011
1/20		

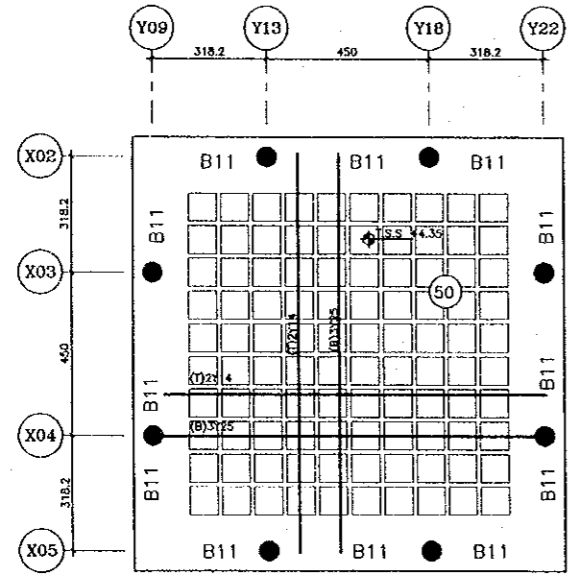
169



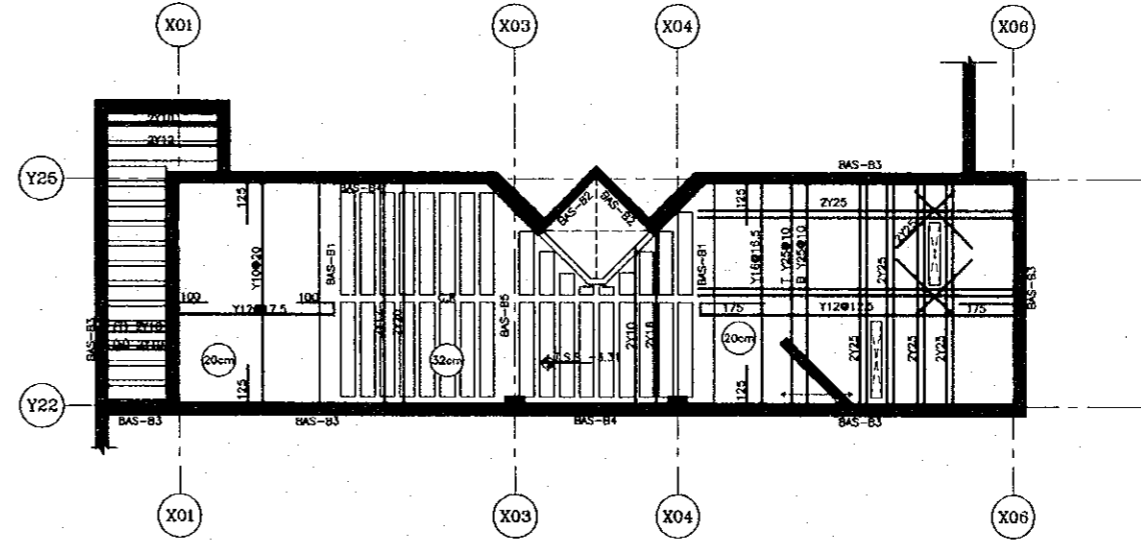
BOTTOM SLAB
SCALE 1/100



INTERMEDIATE SLAB
SCALE 1/100



TOP SLAB
SCALE 1/100



REINFORCEMENT SLAB OF BASEMENT FLOOR
SCALE 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:
Dead Sea Panoramic Complex

Note:
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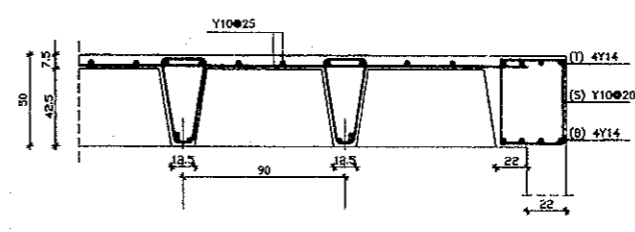
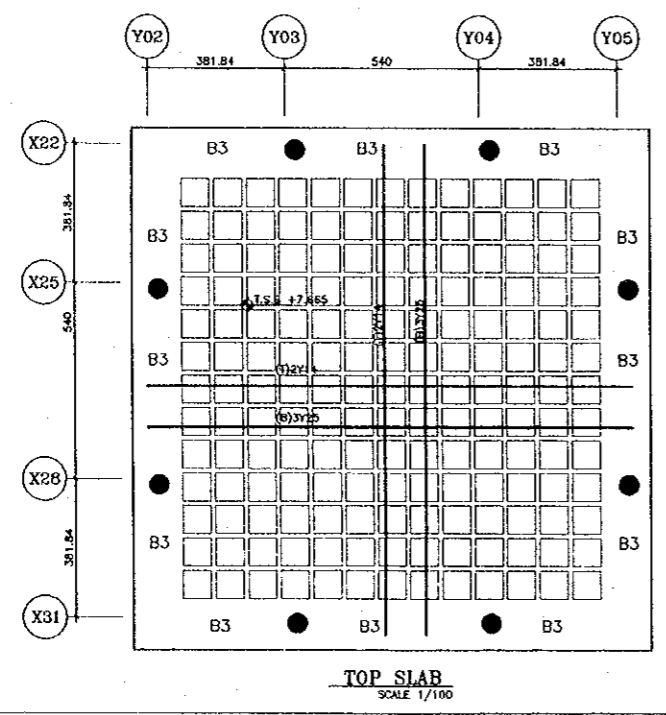
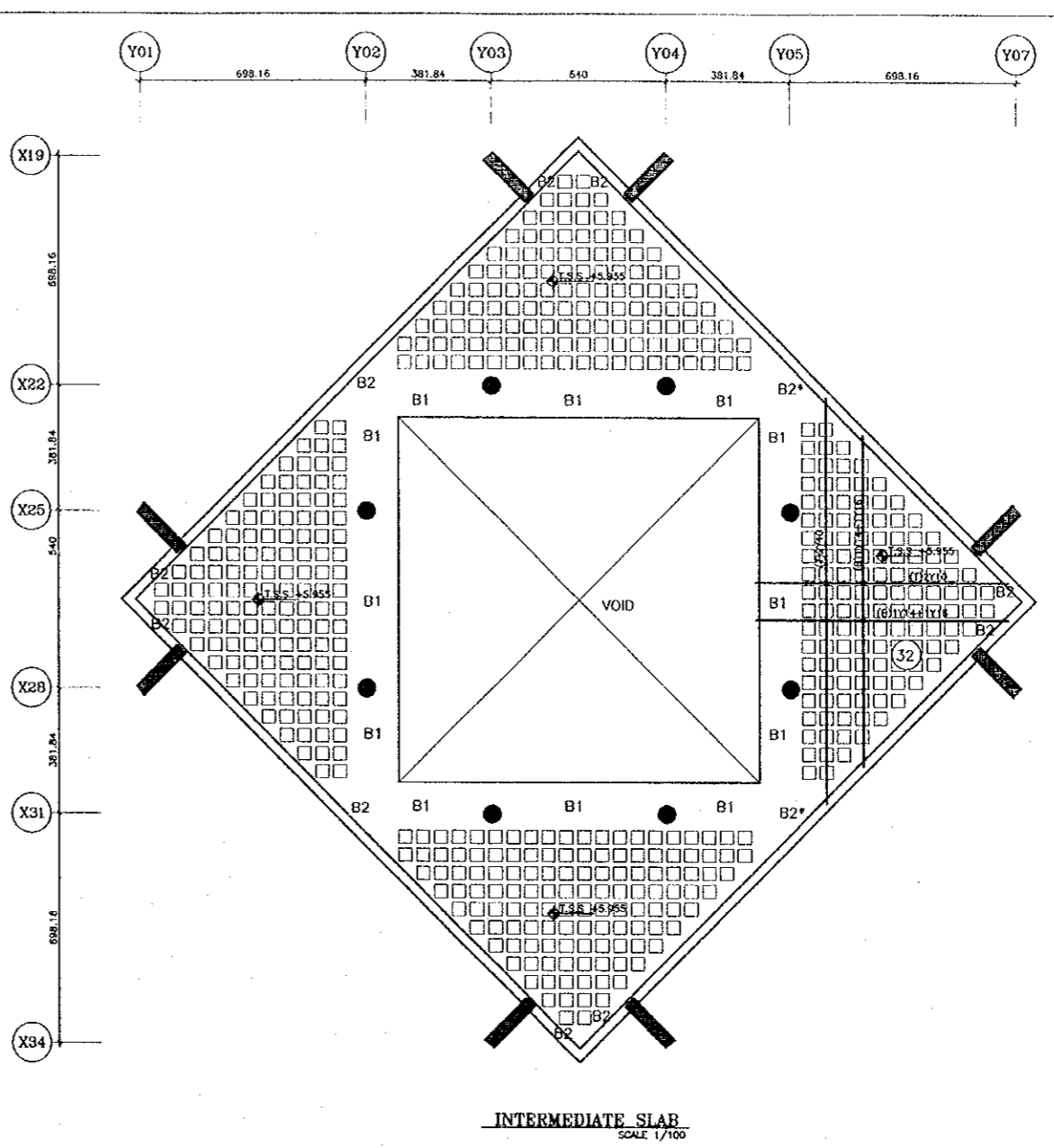
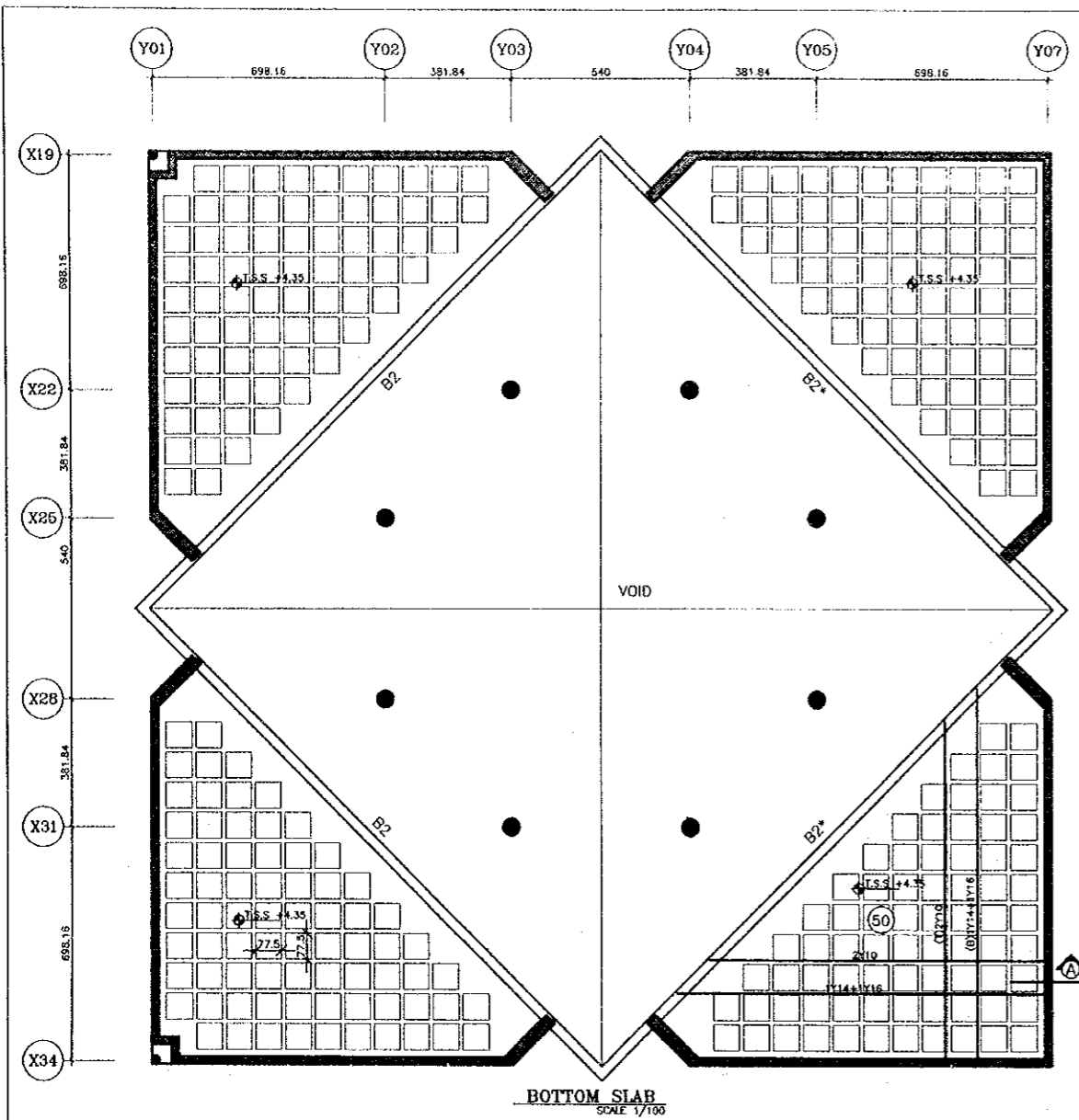
consolidated consultants
Engineering & Architecture
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Date: June 2000

**RESTURANT REINFORCEMENT
SLAB PLAN**
Drawing Title:

Scale: 1/100
Drawing No.: DSPC.S-012

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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:
Dead Sea Panoramic Complex

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Date: June 2000

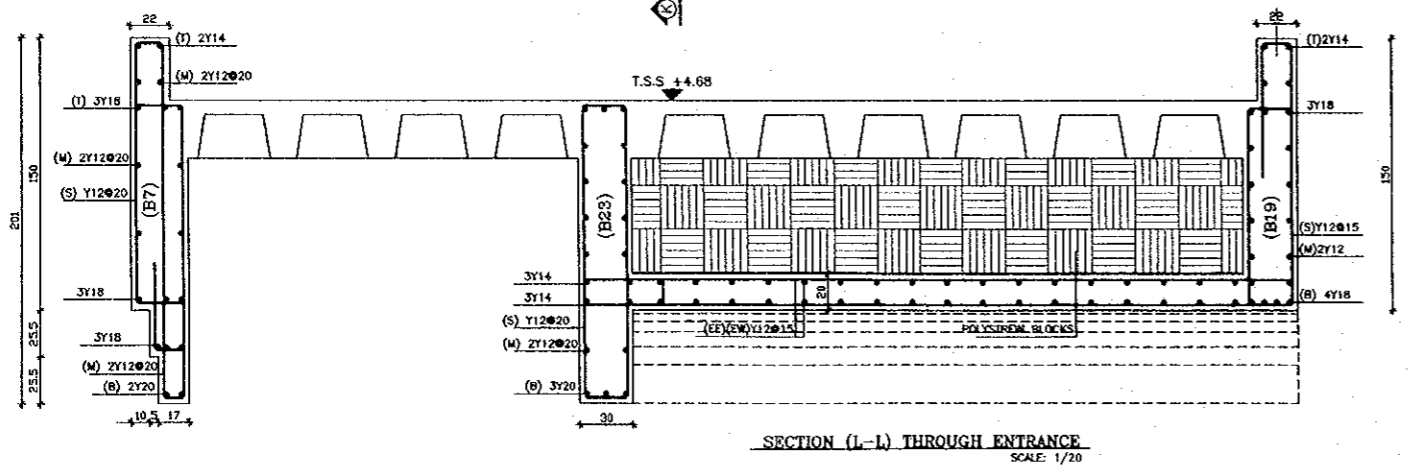
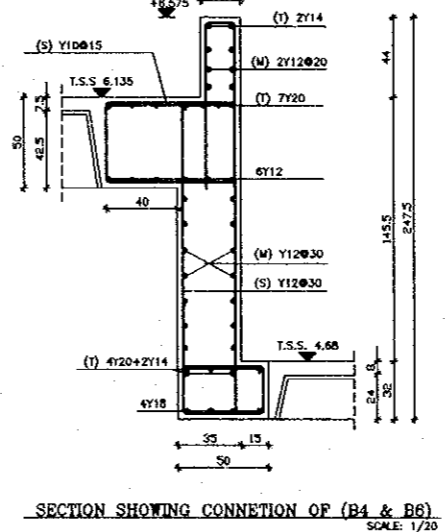
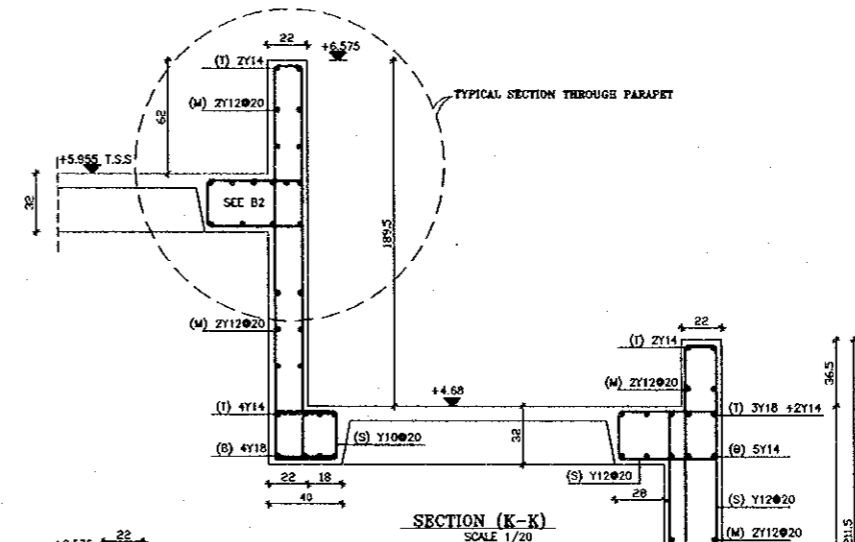
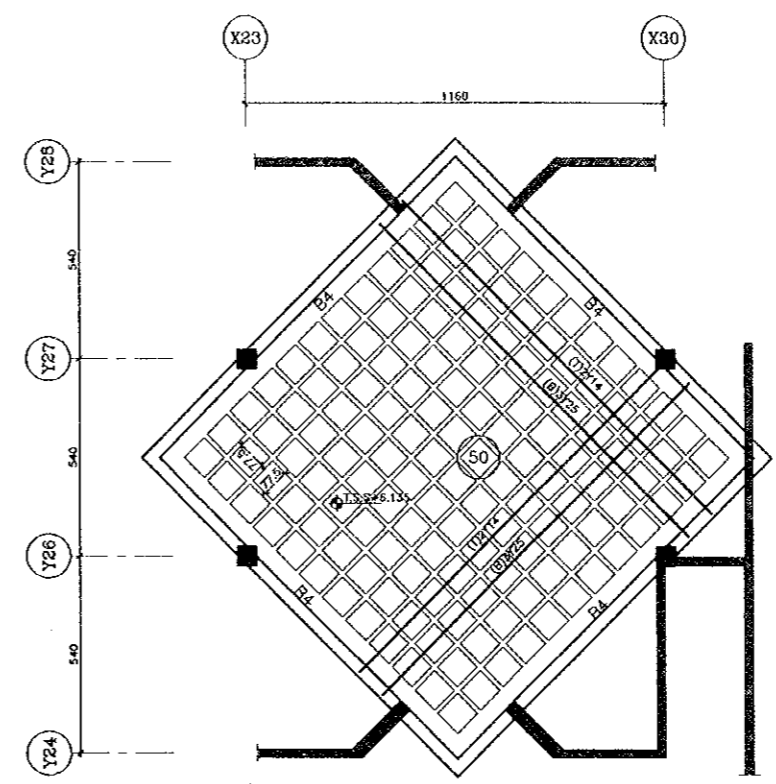
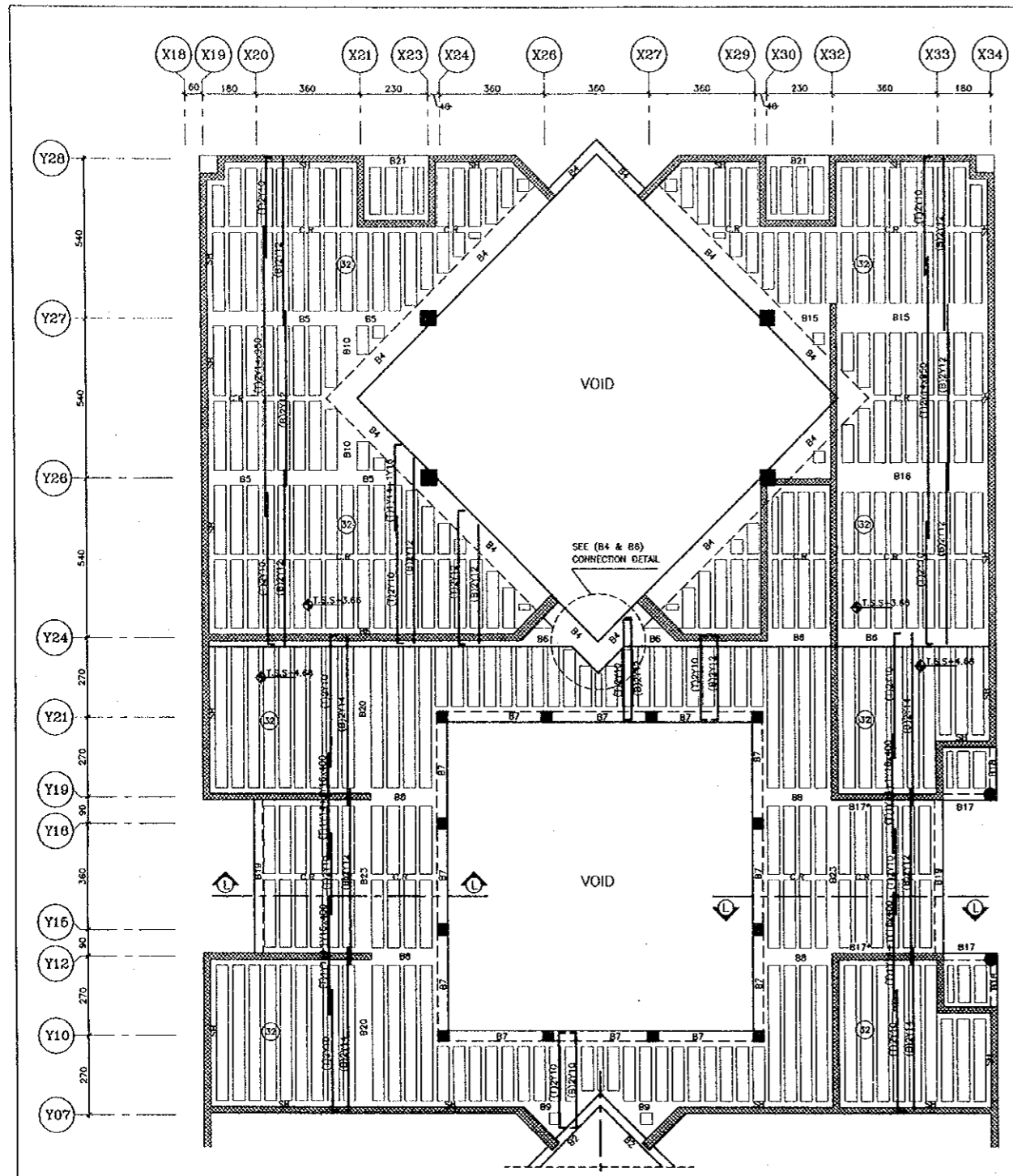
**MUSEUM REINFORCEMENT
SLAB PLAN-1**

Drawing Title:

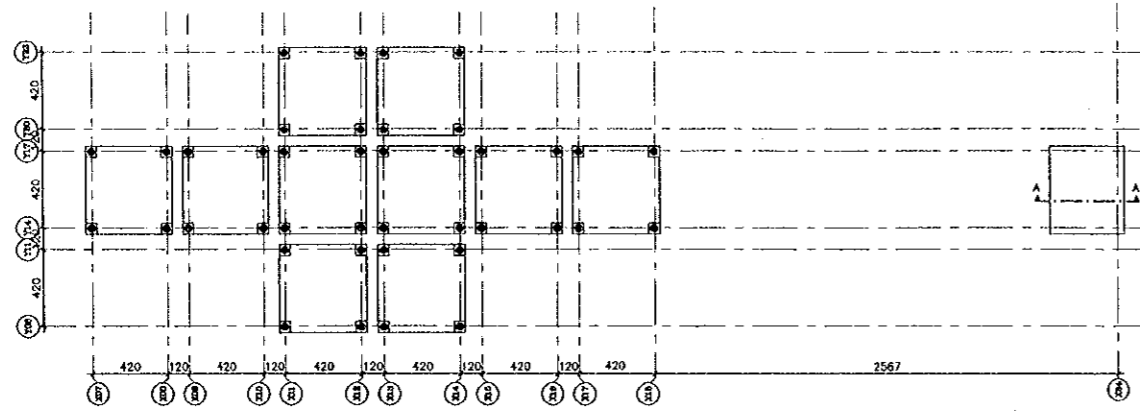
Scale: 1/20
1/100

Drawing No.: DSPC.S-013

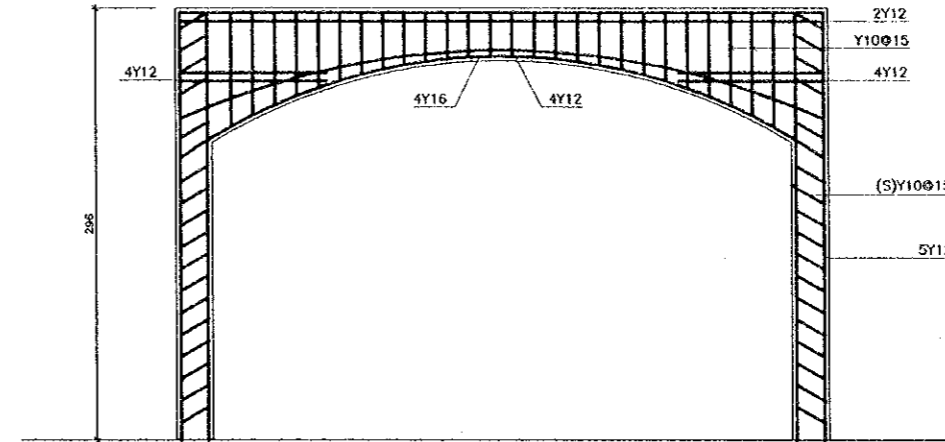
011



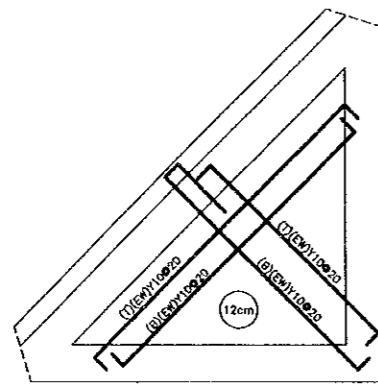
Project: Tourism Sector Development Project in the Hashemite Kingdom of Jordan	
Executing Agency: The Ministry of Tourism and Antiquities The Ministry of Planning	
SUB-PROJECT: Dead Sea Panoramic Complex	
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Date:	June 2000
MUSEUM REINFORCEMENT SLAB PLAN-2	
Drawing Title:	
Scale:	Drawing No.:
1/20 1/100	DSPCS-014



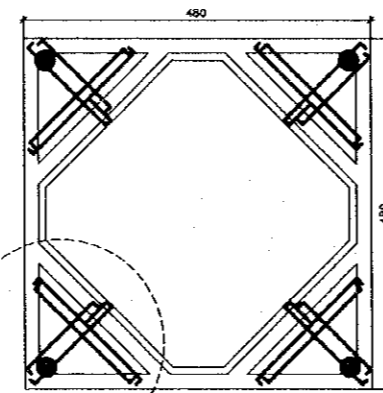
PLAN
SCALE 1/200



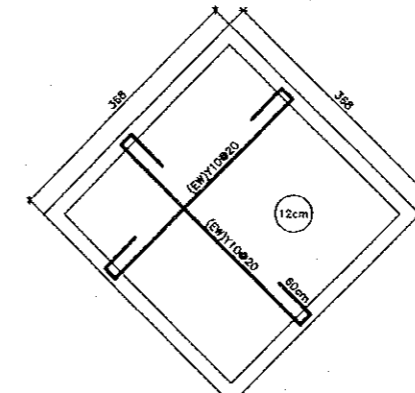
ELEVATION
SCALE 1/25



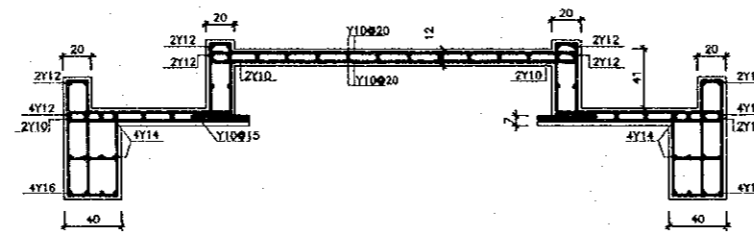
BOTTOM SLAB REINFORCEMENT PLAN
SCALE 1/20



BOTTOM SLAB REINFORCEMENT PLAN
SCALE 1/50



TOP SLAB REINFORCEMENT PLAN
SCALE 1/50



CROSS SEC. REINF.
SCALE 1/25

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:
Dead Sea Panoramic Complex

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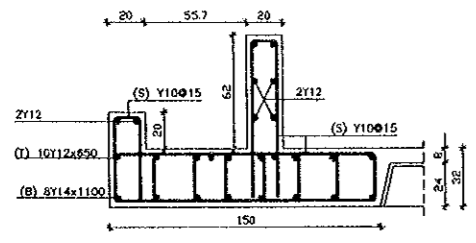
Subcontracted Local Consultant:

consolidated consultants
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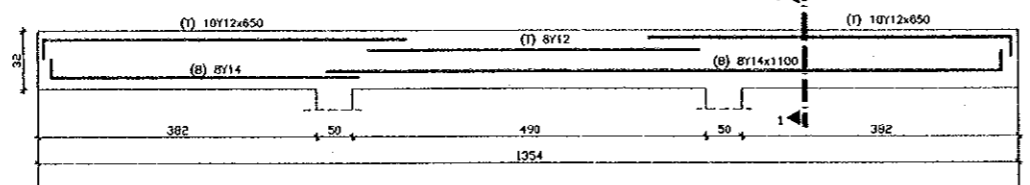
Date: June 2000

**CORRIDOR PANELS
REINFORCEMENT SLAB PLAN**
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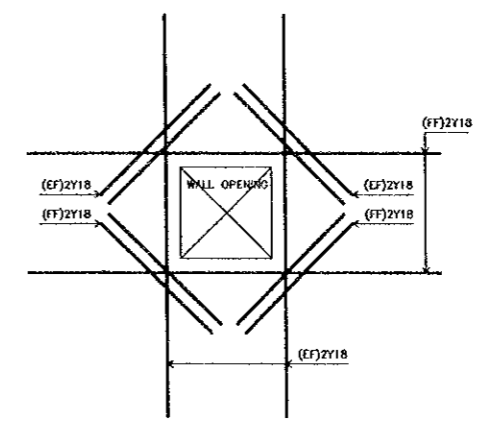
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1/50
Drawing No.: DSPCS-015



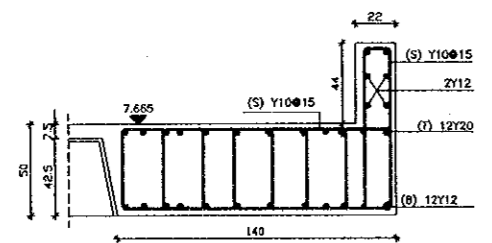
SECTION(1-1) THROUGH B1
SCALE: 1/20



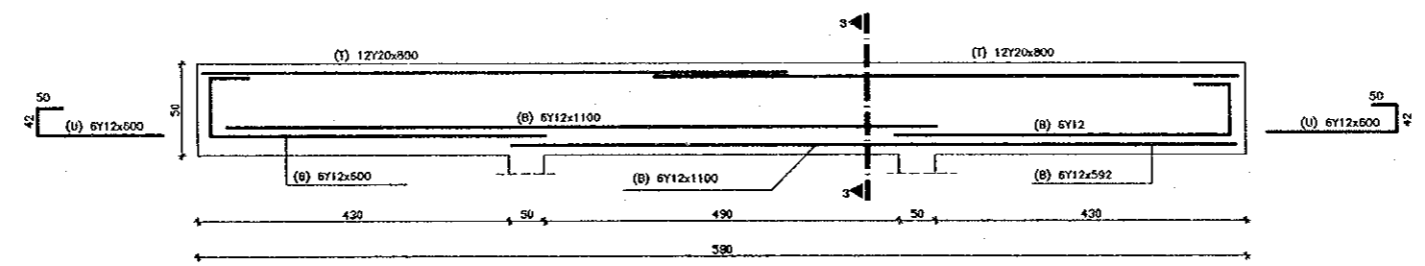
LONG SECTION THROUGH B1
SCALE: H:1/50-V:1/20



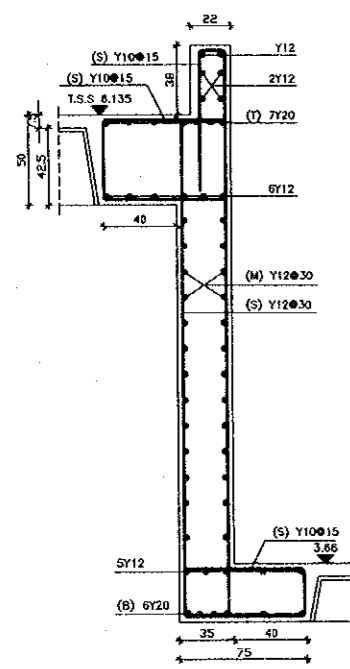
TYPICAL WALL OPENING REINFORCEMENT DETAIL
SCALE: 1/20



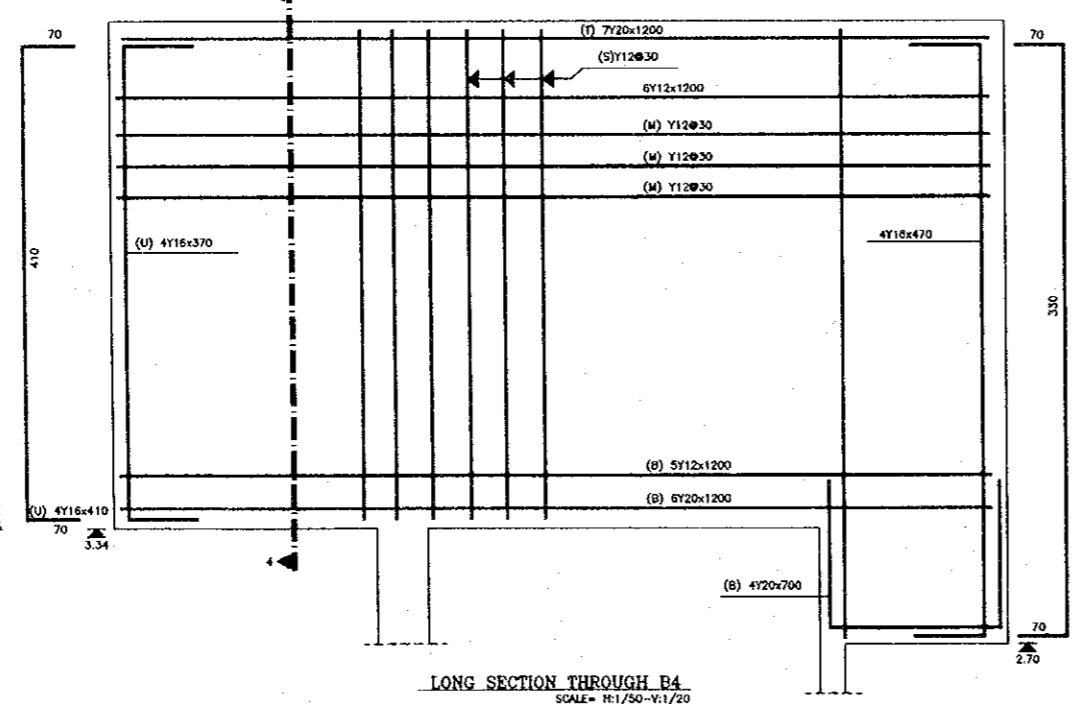
SECTION(3-3) THROUGH B3
SCALE: 1/20



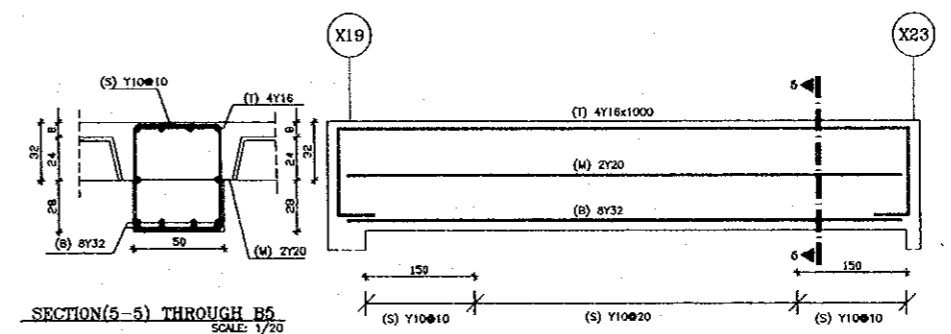
LONG SECTION THROUGH B3
SCALE: H:1/50-V:1/20



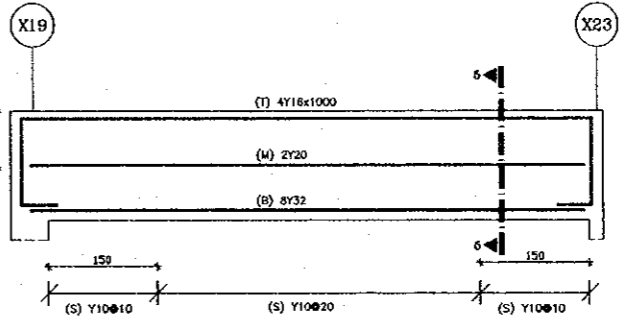
SECTION(4-4) THROUGH B4
SCALE: 1/20



LONG SECTION THROUGH B4
SCALE: H:1/50-V:1/20



SECTION(5-5) THROUGH B5
SCALE: 1/20



LONG SECTION THROUGH B5
SCALE: H:1/50-V: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:
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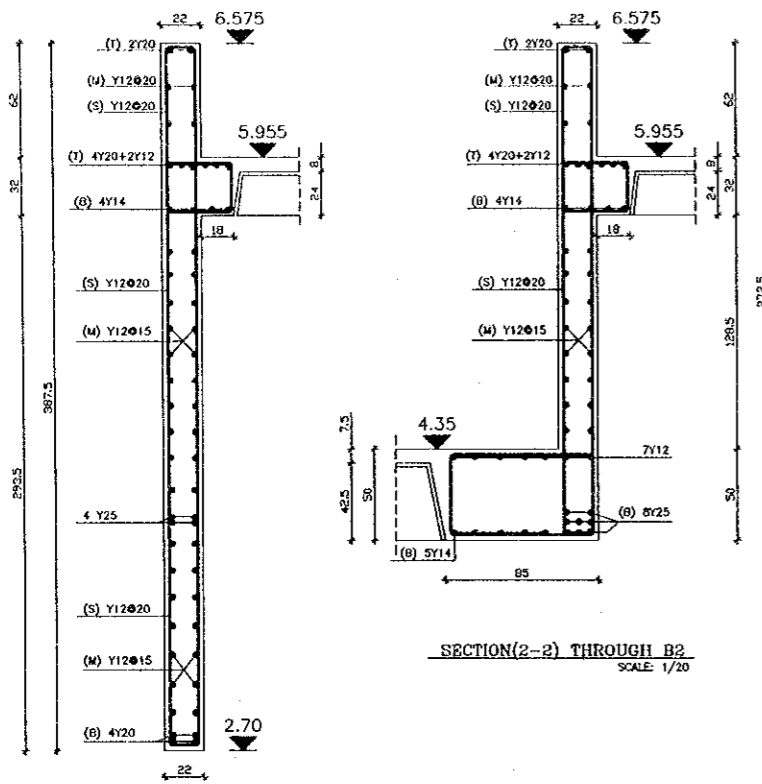
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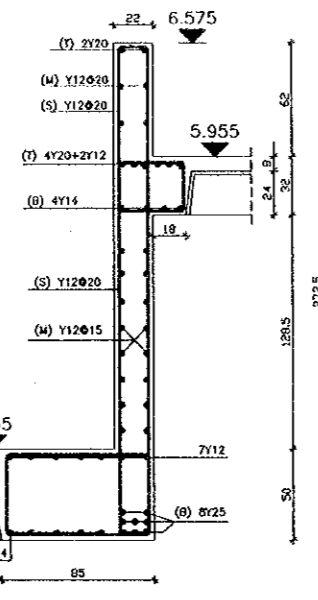
Drawing Title:
BEAM STRUCTURAL--1
DETAILS

Scale: 1/20 Drawing No.: DSPC.S-016

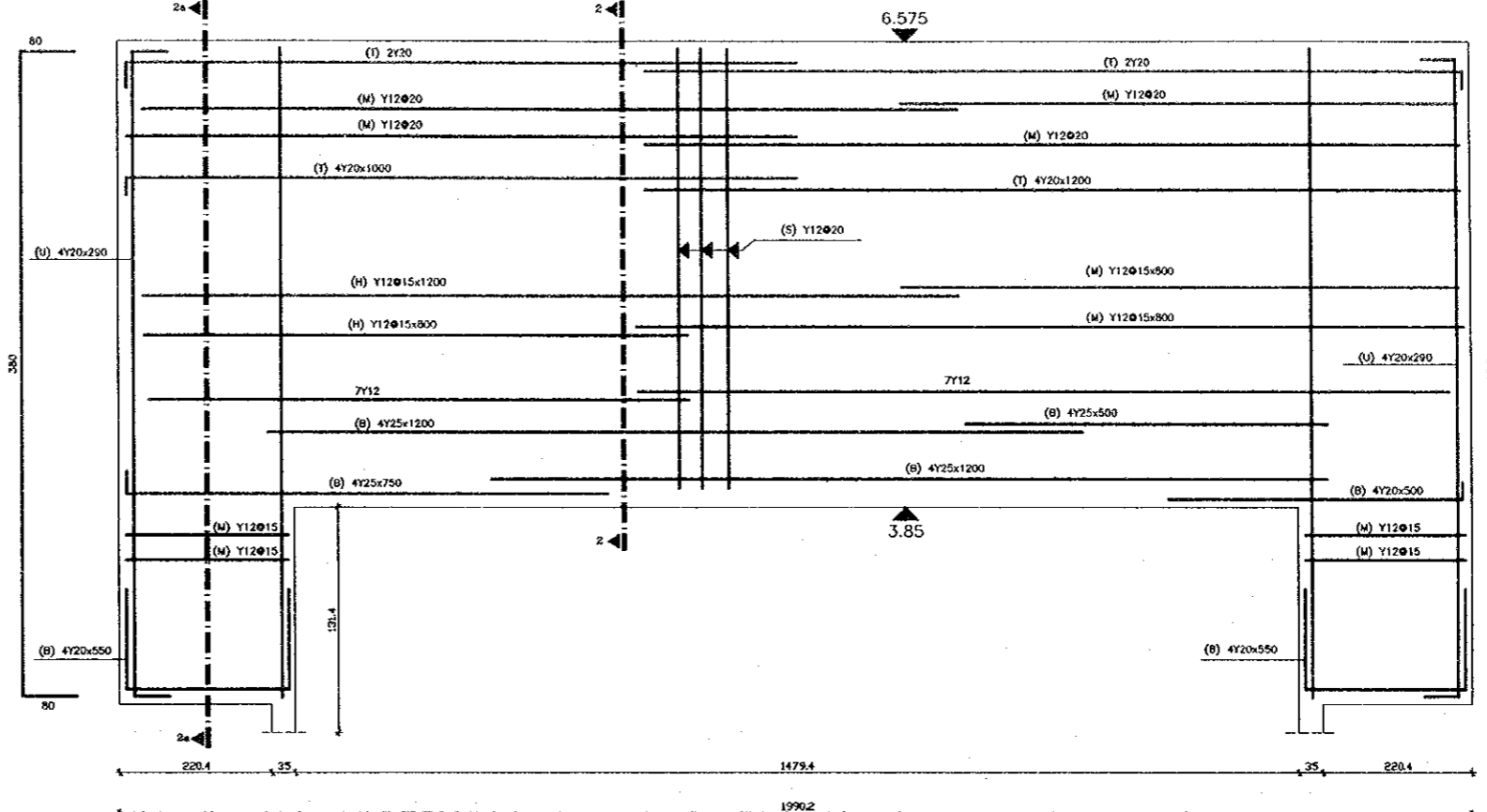
1/3



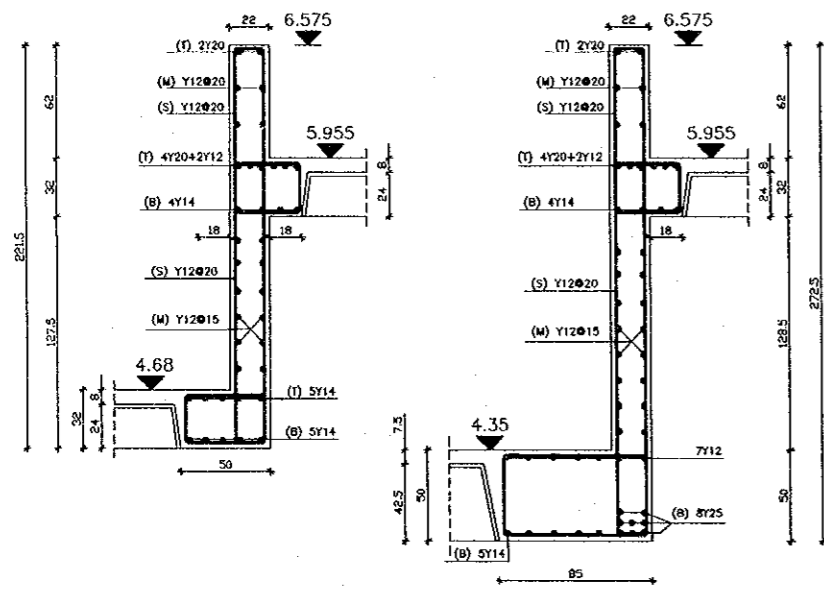
SECTION(2a-2a) THROUGH B2
SCALE: 1/20



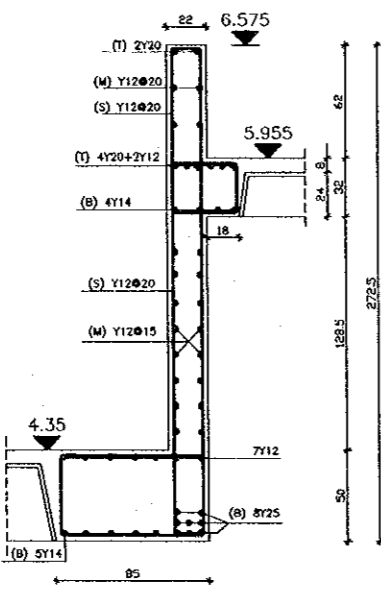
SECTION(2-2) THROUGH B2
SCALE: 1/20



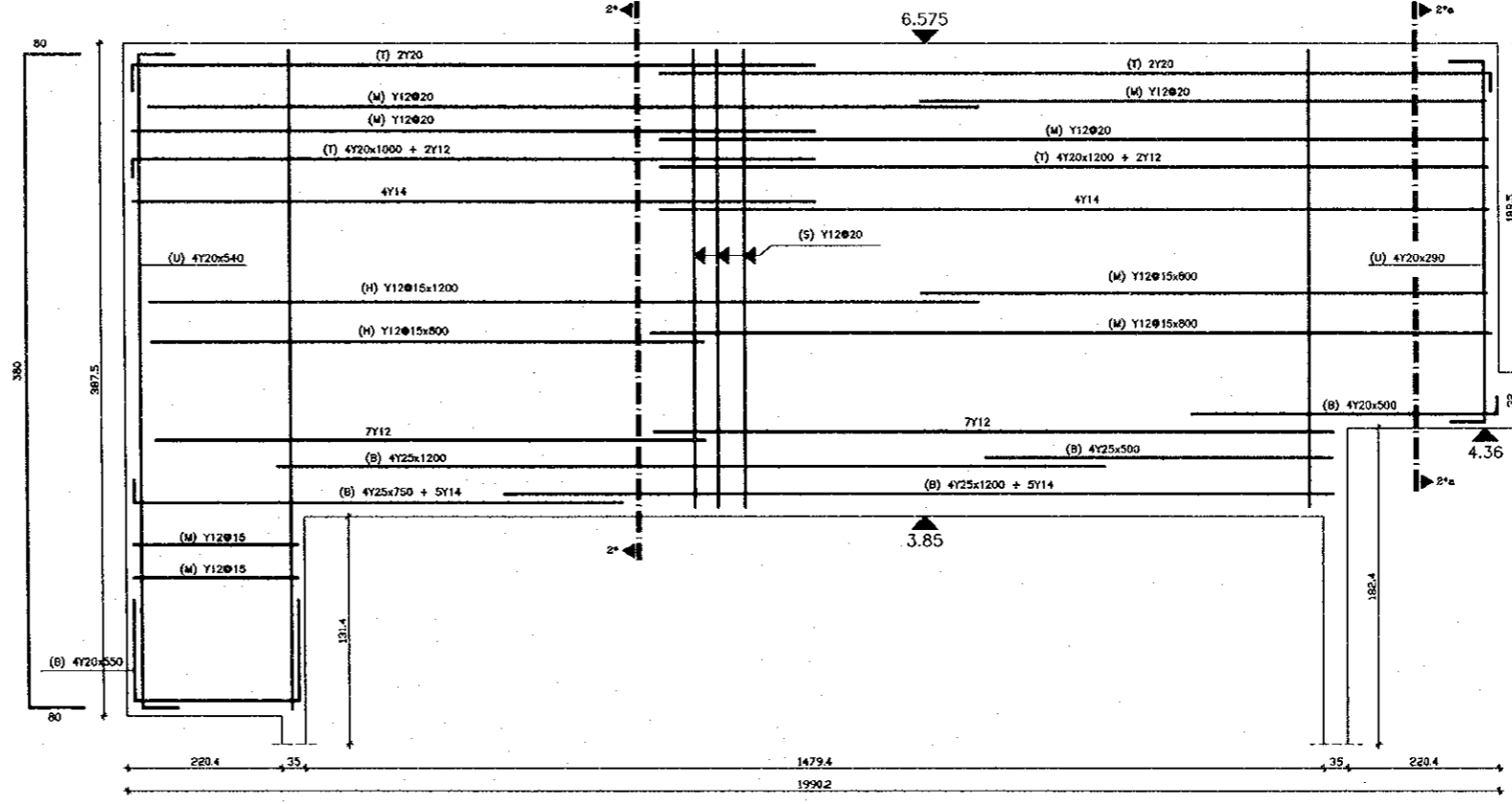
LONG SECTION THROUGH B2
SCALE: H:1/50 - V:1/20



SECTION(2*a-2*a) THROUGH B2*
SCALE: 1/20



SECTION(2*-2*) THROUGH B2*
SCALE: 1/20



LONG SECTION THROUGH B2*
SCALE: H:1/50 - V:1/20

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

Executing Agency:
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The Ministry of Planning

SUB-PROJECT:
Dead Sea Panoramic Complex

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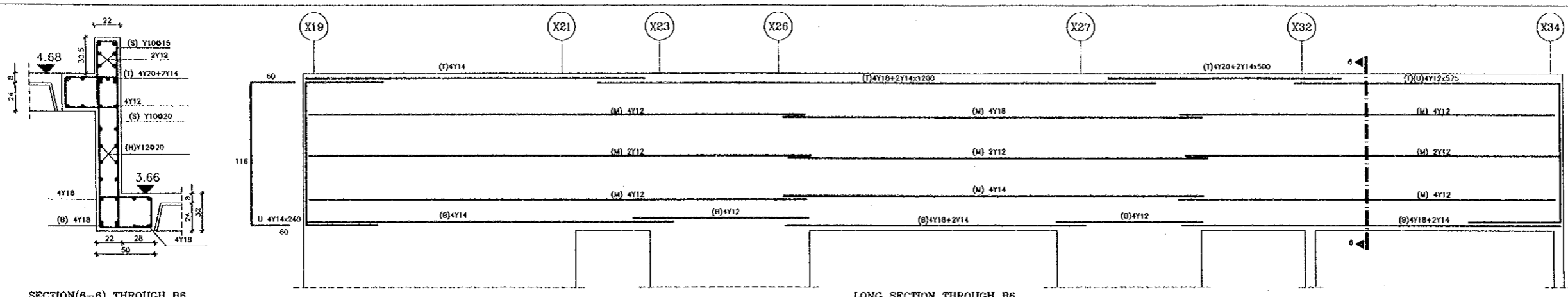
Date: June 2000

**BEAM STRUCTURAL-2
DETAILS**

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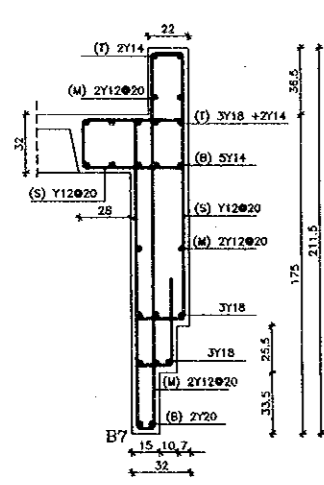
Scale: 1/20 Drawing No.: DSPCS-017

111

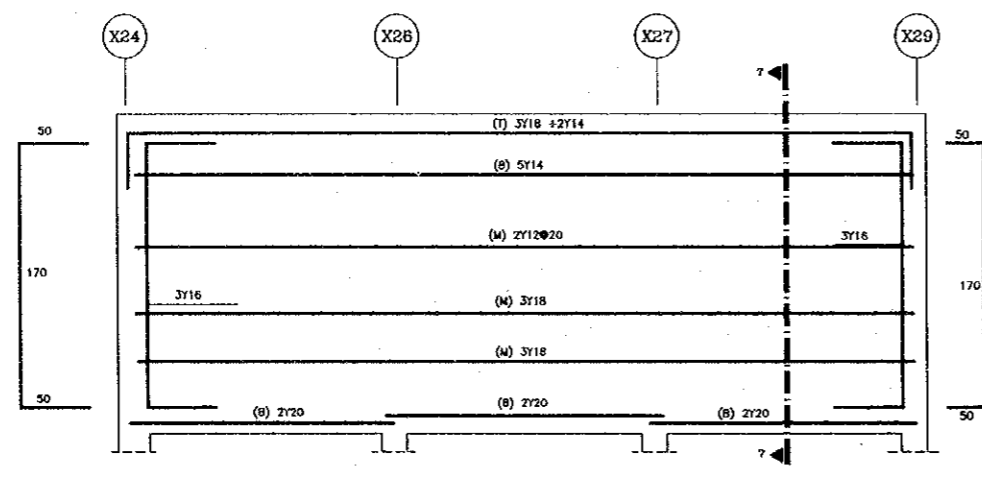


SECTION(6-6) THROUGH B6
SCALE: 1/20

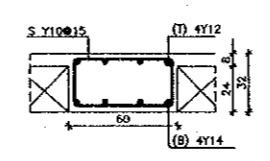
LONG SECTION THROUGH B6
SCALE= H:1/50-V:1/20



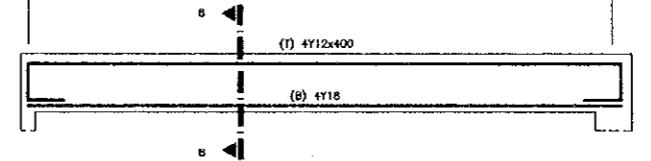
SECTION(7-7) THROUGH B7
SCALE: 1/20



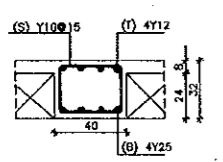
LONG SECTION THROUGH B7
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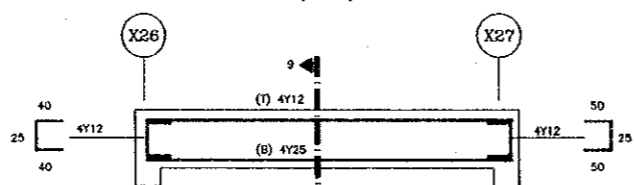
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SCALE: 1/20



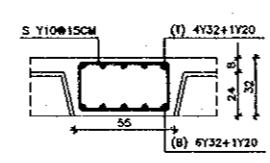
LONG SECTION THROUGH B8
SCALE= H:1/50-V:1/20



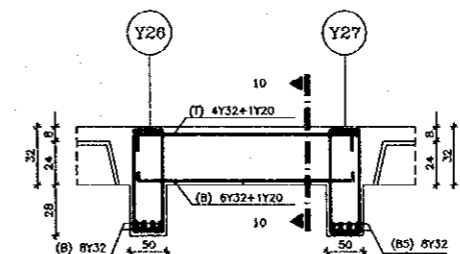
SECTION(9-9) THROUGH B9
SCALE: 1/20



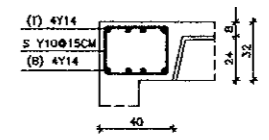
LONG SECTION THROUGH B9
SCALE= H:1/50-V:1/20



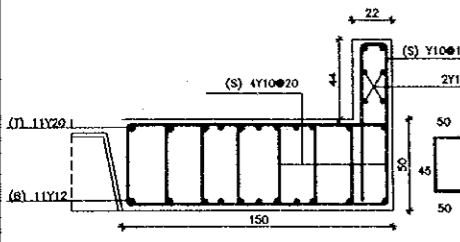
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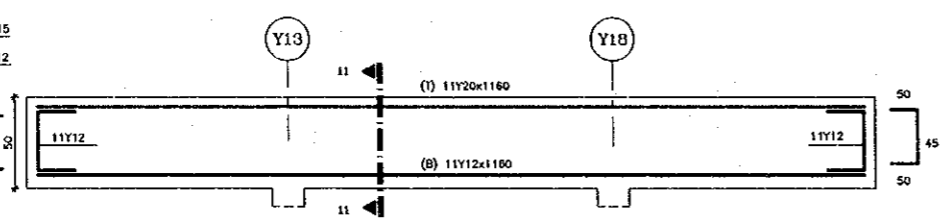
LONG SECTION THROUGH B10
SCALE= H:1/50-V:1/20



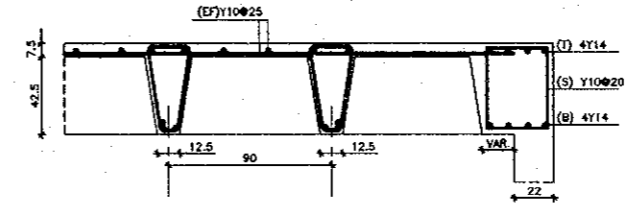
EDGE BEAM (SH)
SCALE: 1/20



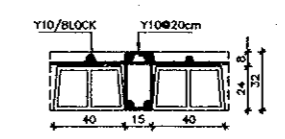
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SCALE: 1/20



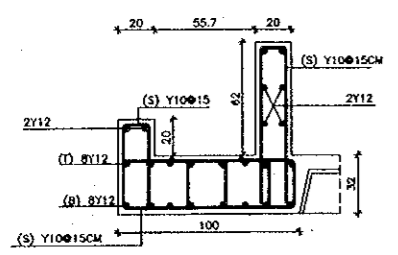
LONG SECTION THROUGH B11
SCALE= H:1/50-V:1/20



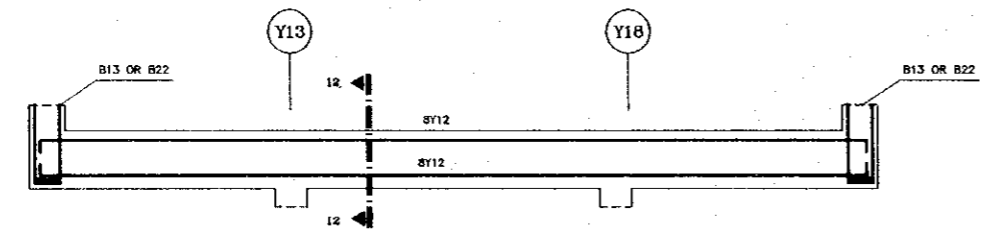
TYPICAL SECTION THROUGH WAFFLE FLOOR SECTION
SCALE: 1/20



TYPICAL SECTION THROUGH RIBS SLAB
SCALE: 1/20



SECTION(12-12) THROUGH B12
SCALE: 1/20



LONG SECTION THROUGH B12
SCALE= H:1/50-V: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:
Dead Sea Panoramic Complex

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Date: June 2000

BEAM STRUCTURAL-3
Drawing Title: DETAILS

Scale: 1/20 Drawing No.: DSPCS-018

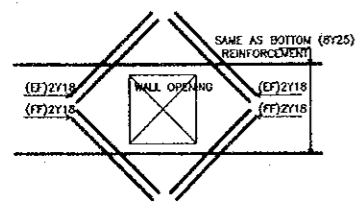
117

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

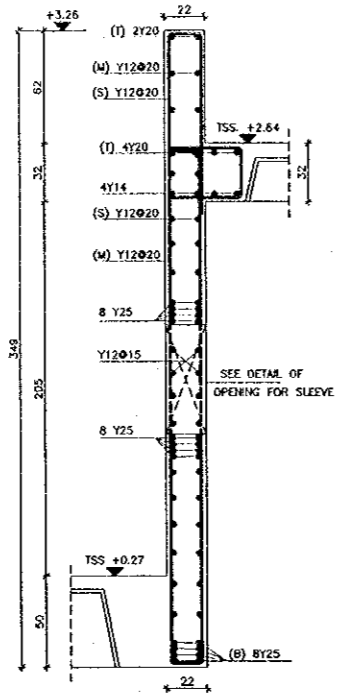
Executing Agency:
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The Ministry of Planning

SUB-PROJECT:
Dead Sea Panoramic Complex

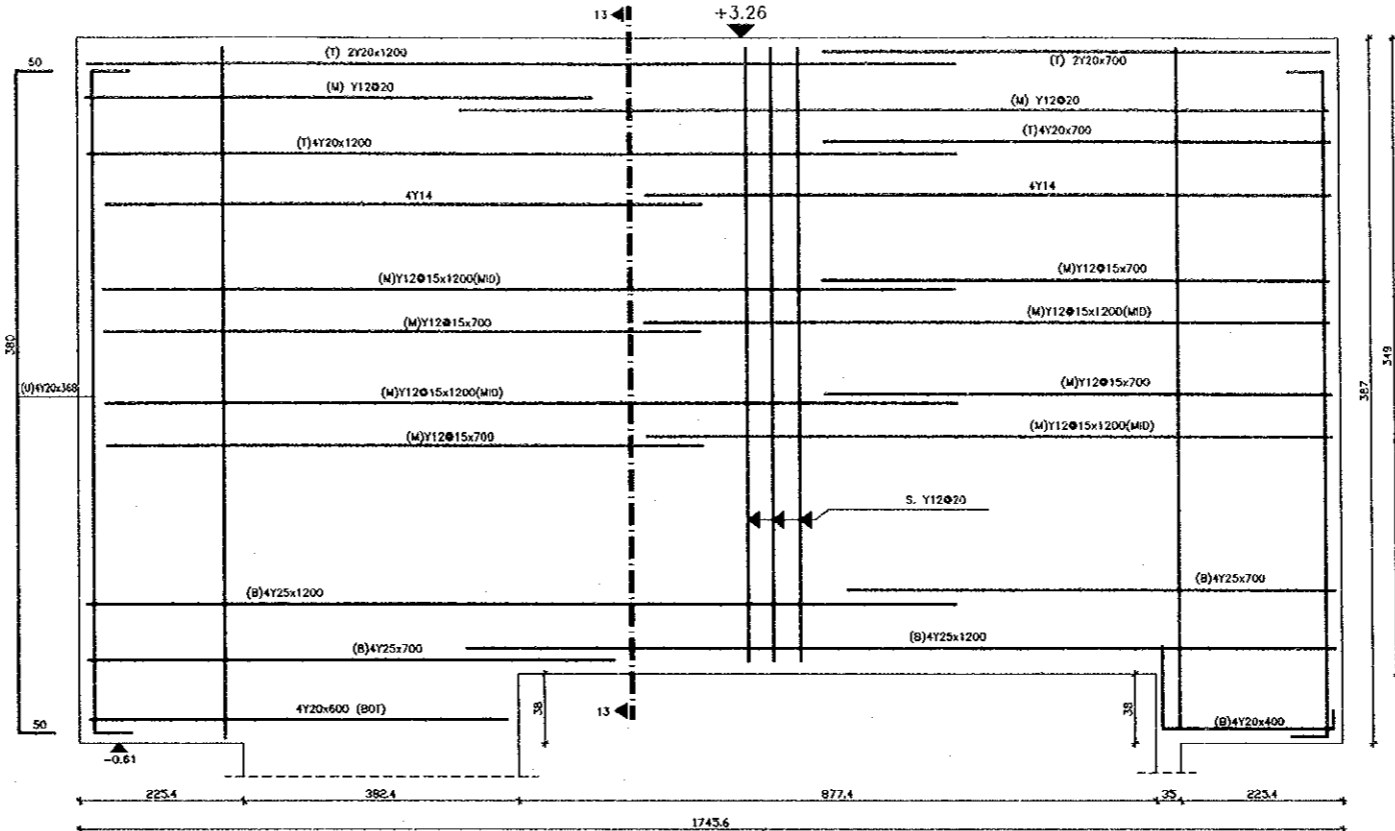
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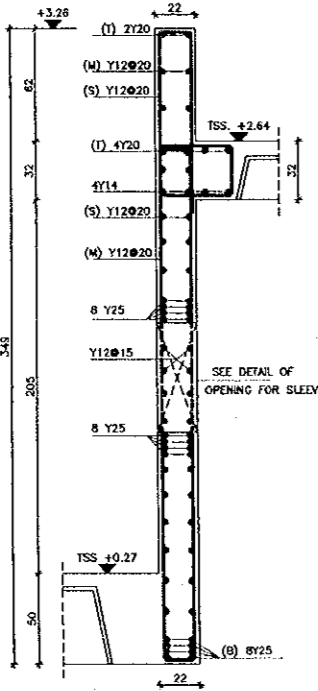
TYPICAL BEAM OPENING
REINFORCEMENT DETAIL
SCALE=1/20



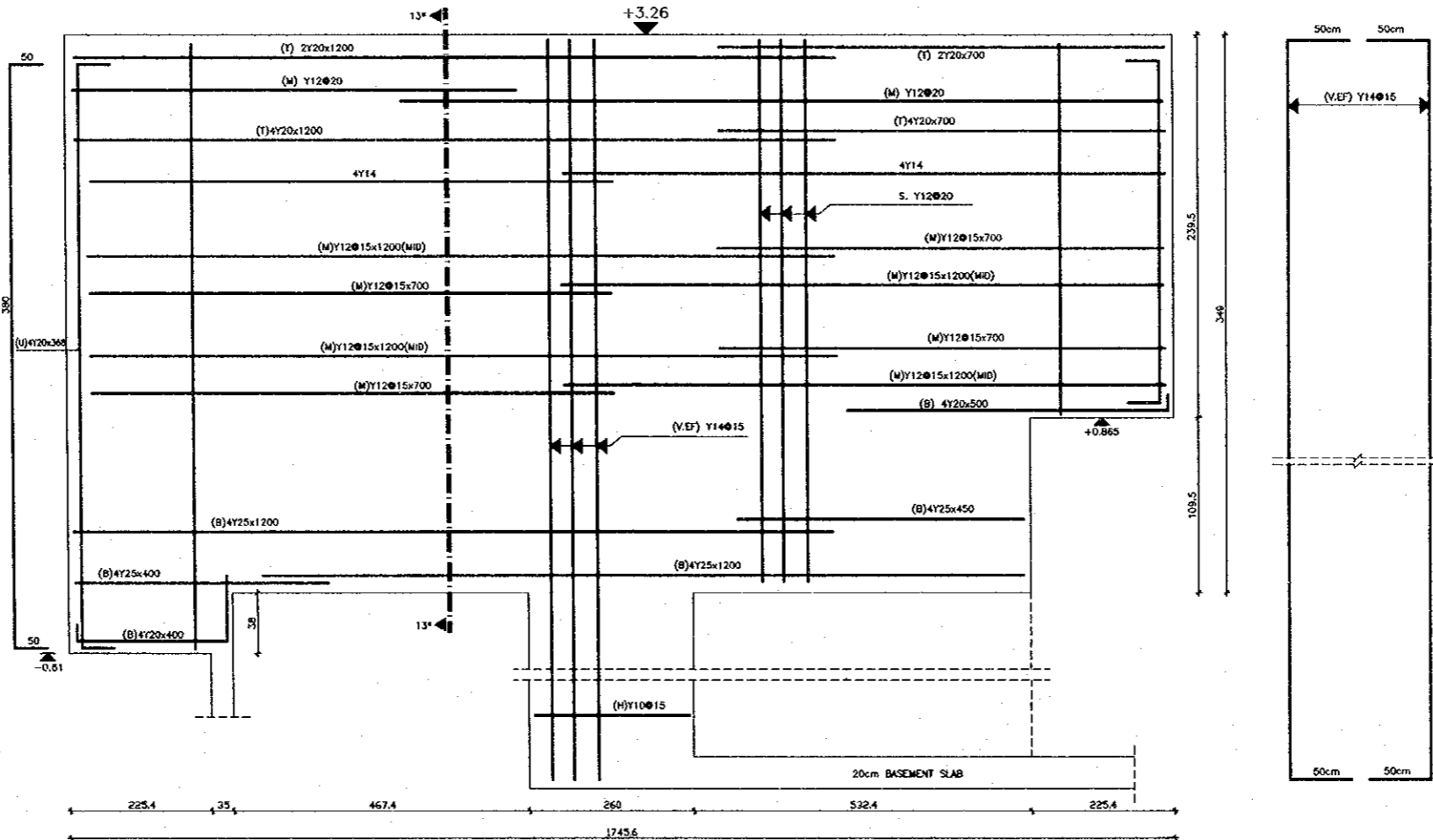
SECTION(13-13) THROUGH B13
SCALE: 1/20



LONG SECTION THROUGH B13
SCALE= H:1/50-V:1/20



SECTION(13*-13*) THROUGH B13*
SCALE: 1/20



LONG SECTION THROUGH B13*
SCALE= H:1/50-V:1/20

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JICA Study Team:
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Subcontracted Local Consultant:

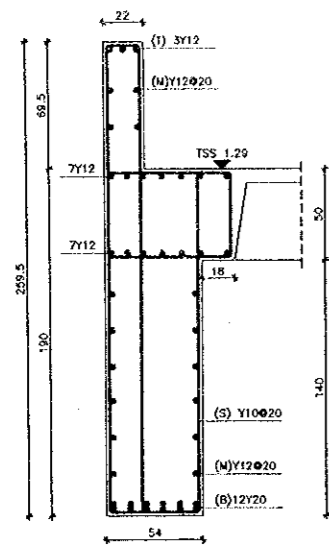


Date: June 2000

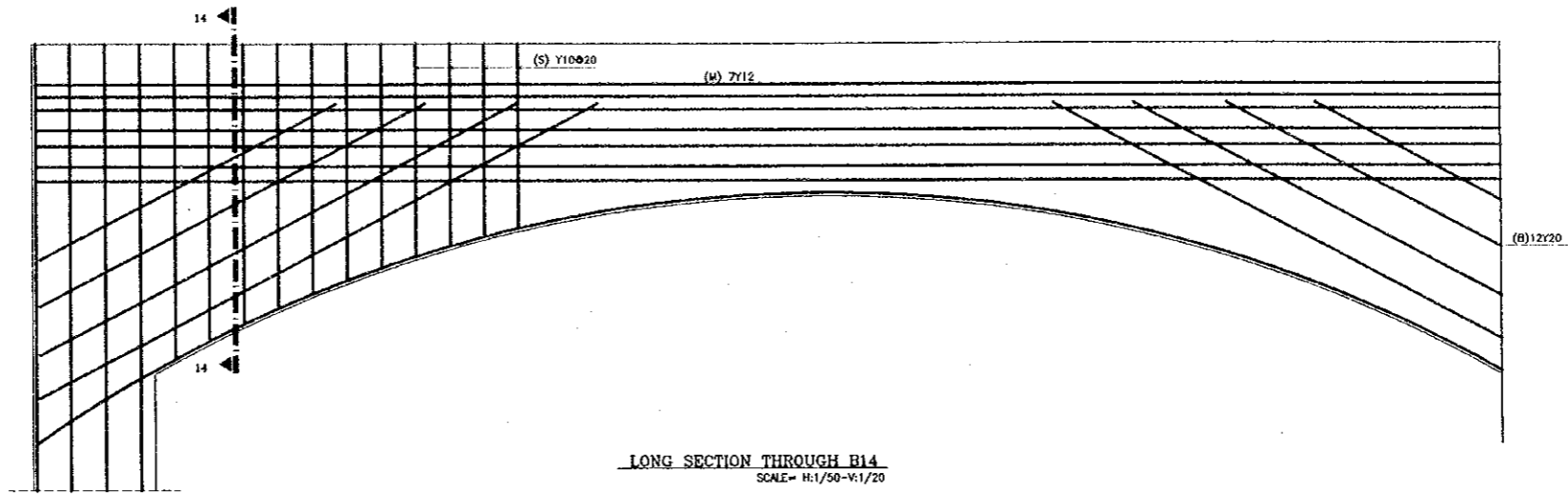
Drawing Title: BEAM STRUCTURAL-4
DETAILS

Scale: 1/20 Drawing No.: DSPC.S-019

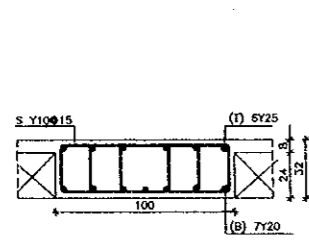
911



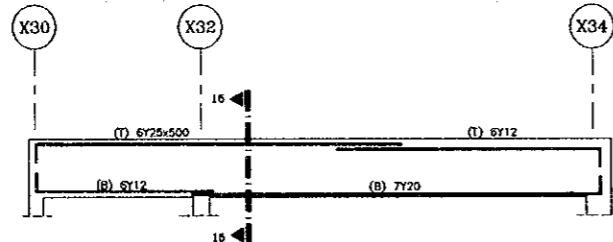
SECTION(14-14) THROUGH B14
SCALE: 1/20



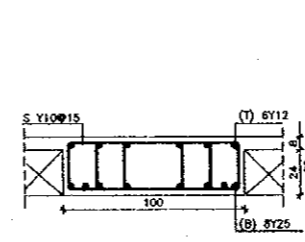
LONG SECTION THROUGH B14
SCALE= H:1/50-V:1/20



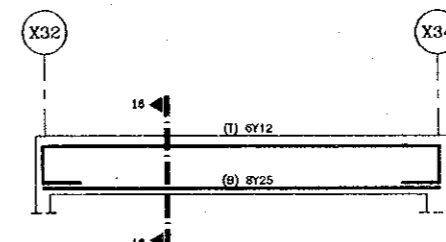
SECTION(15-15) THROUGH B15
SCALE: 1/20



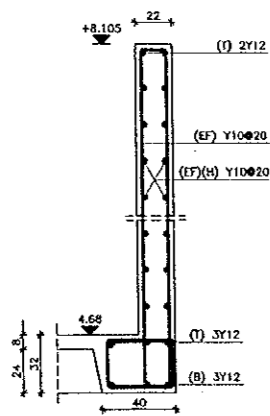
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SCALE= H:1/50-V:1/20



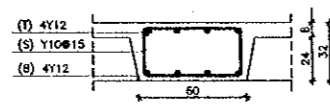
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SCALE: 1/20



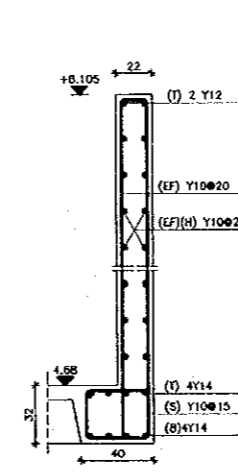
LONG SECTION THROUGH B16
SCALE= H:1/50-V:1/20



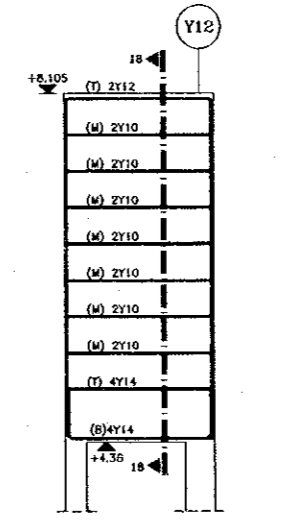
SECTION THROUGH B17
SCALE 1/20



SECTION THROUGH B17*
SCALE 1/20



SECTION (18-18) THROUGH B18
SCALE 1/20



LONG SECTION THROUGH B18
SCALE= H:1/50-V: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:
Dead Sea Panoramic Complex

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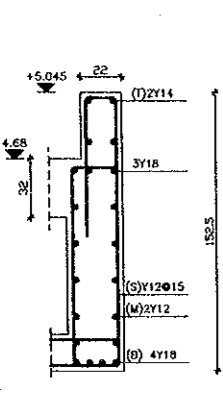
Subcontracted Local Consultant:
consolidated consultants
Engineering & Environment
Tel: 4412377 - Fax: 4412390 - JAMM - J3204

Date: June 2000

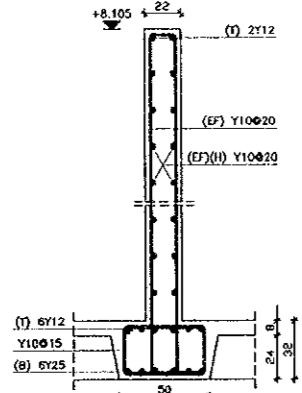
Drawing Title:
BEAM STRUCTURAL-5
DETAILS

Scale: 1/20
Drawing No.: DSPC.S-020

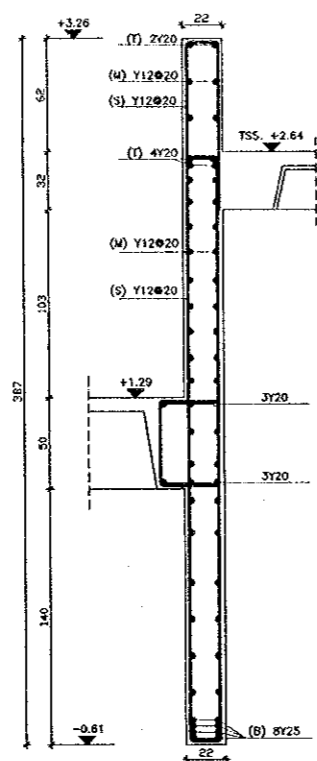
1/17



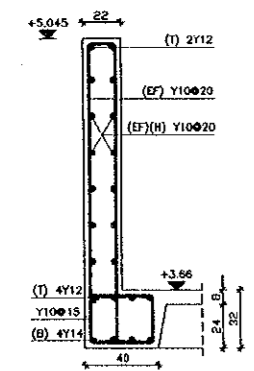
SECTION THROUGH B19
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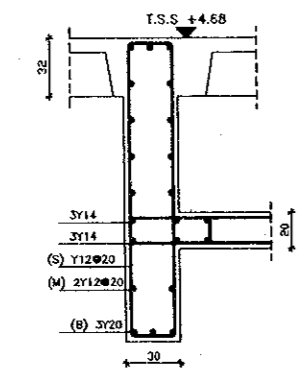
SECTION THROUGH B20
SCALE=1/20



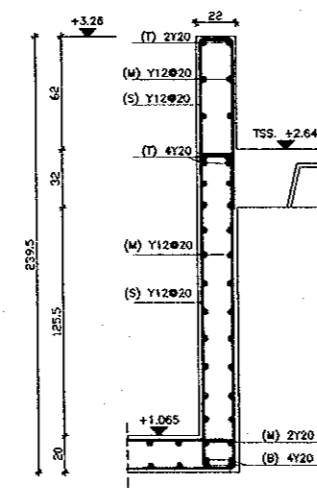
SECTION(22-22) THROUGH B22
SCALE=1/20



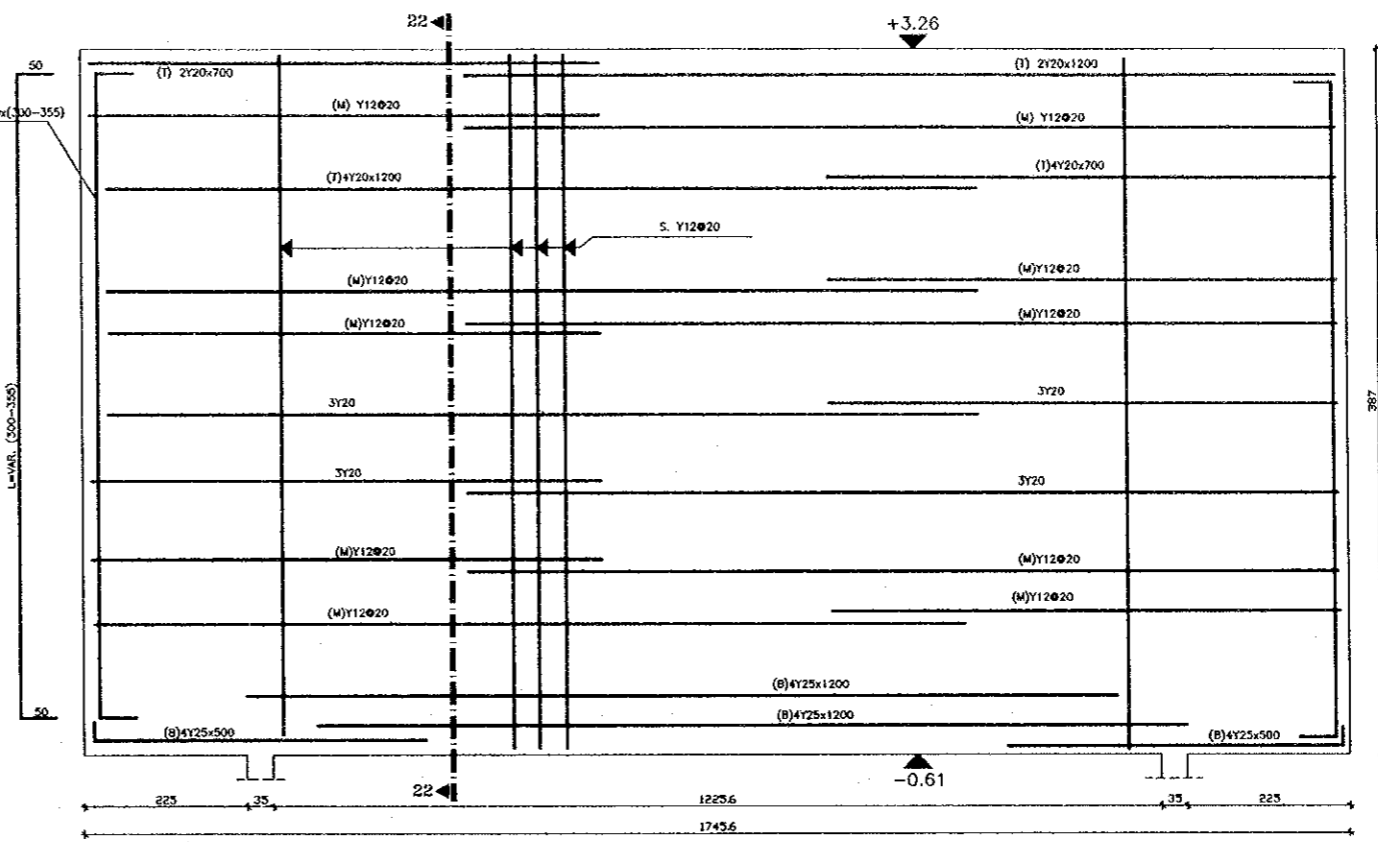
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SCALE=1/20



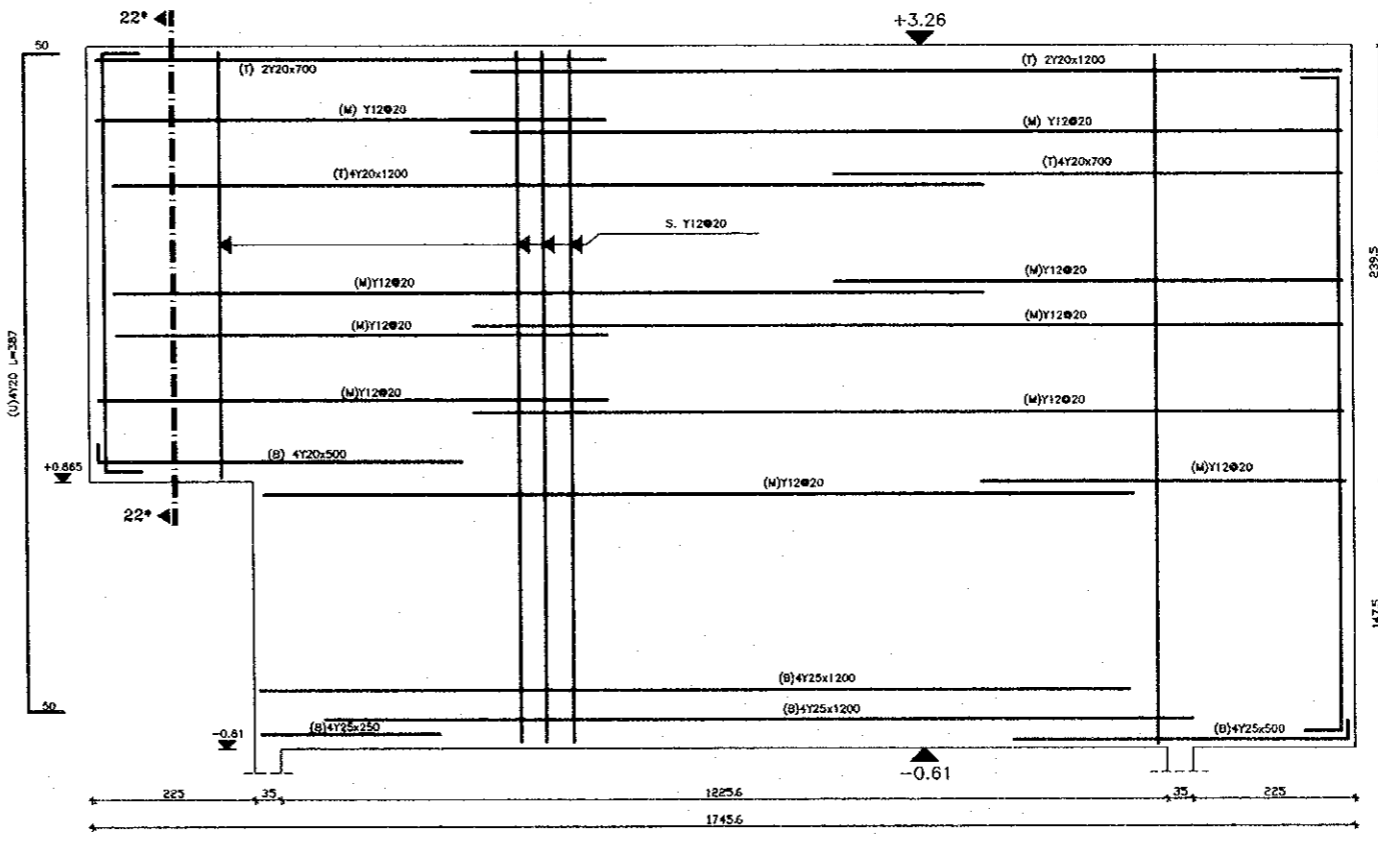
SECTION THROUGH B23
SCALE=1/20



SECTION(22*-22*) THROUGH B22*
SCALE=1/20



LONG SECTION THROUGH B22
SCALE= H:1/50-V:1/20



LONG SECTION THROUGH B22*
SCALE= H:1/50-V: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:
Dead Sea Panoramic Complex

Note:
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engineering & environment
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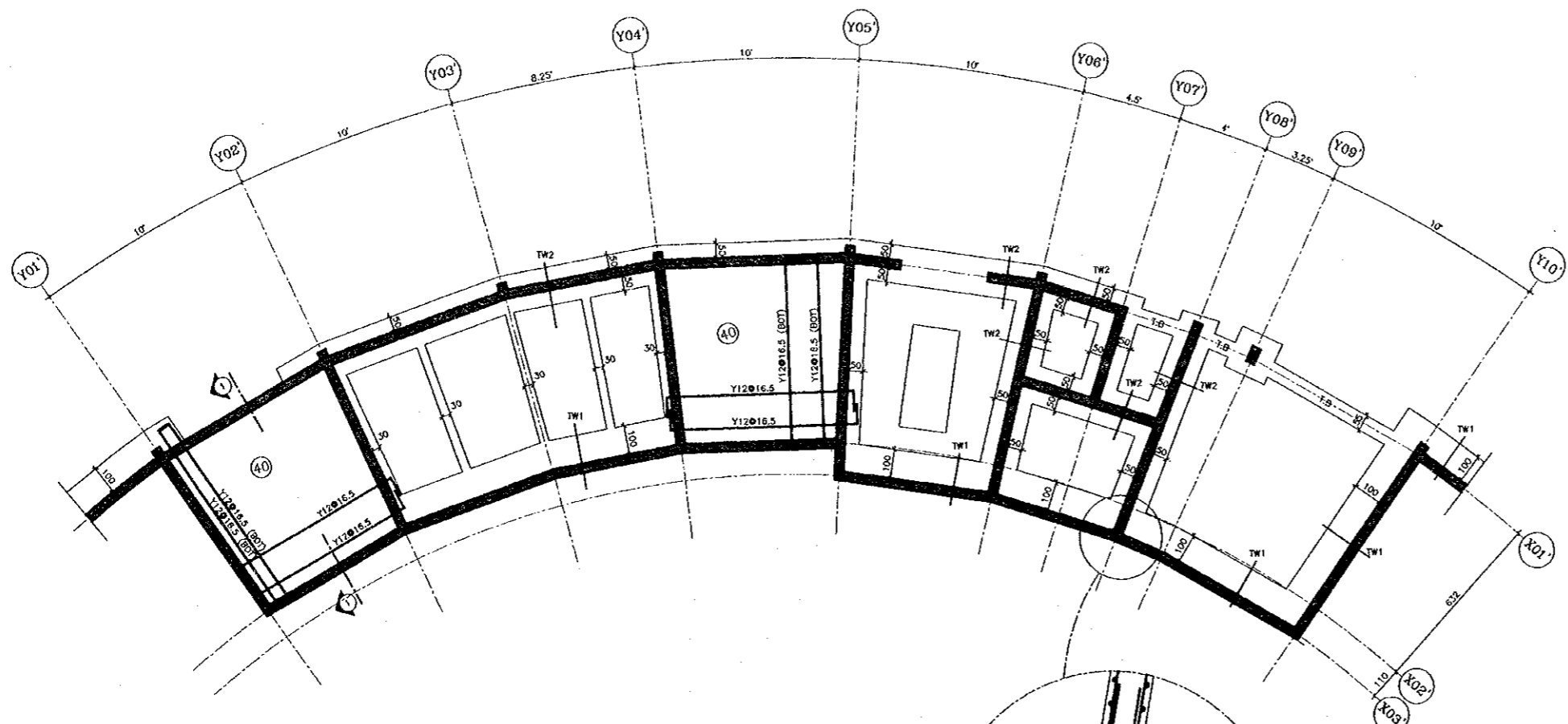
Date: June 2000

**BEAM STRUCTURAL-6
DETAILS**

Drawing Title:

Scale: 1/20 Drawing No.: DSPC.S-021

811

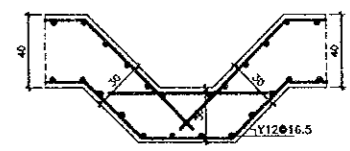
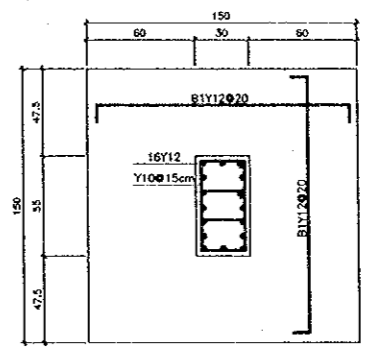
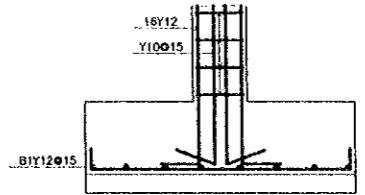


Project:
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

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

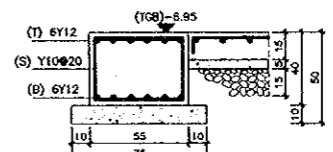
SUB-PROJECT:
Dead Sea Panoramic Complex

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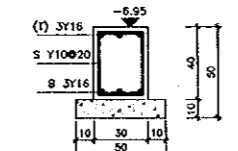


REINFORCEMENT DETAIL C1.F1
SCALE = 1/20

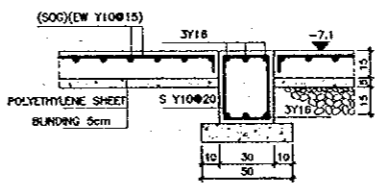
SECTION IN PIT
SCALE 1/20



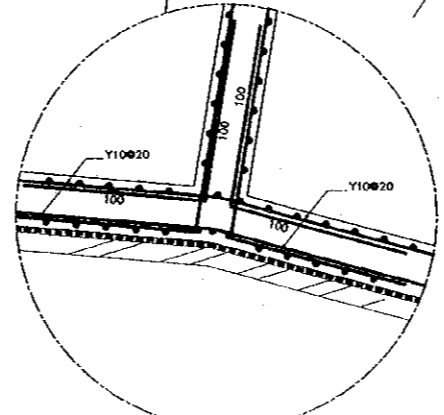
SECTION THROUGH (T.B)
SCALE = 1/20



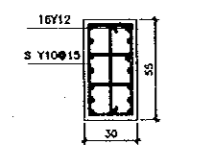
SECTION THROUGH (T.D1)
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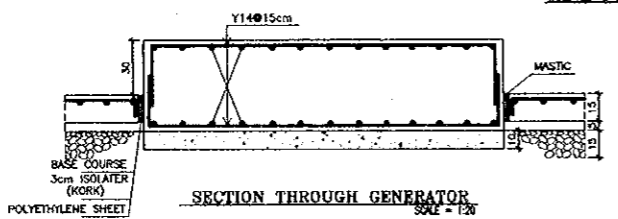
SECTION SHOWING (T.B1)
WITH SLAB ON GRADE
SCALE = 1/20



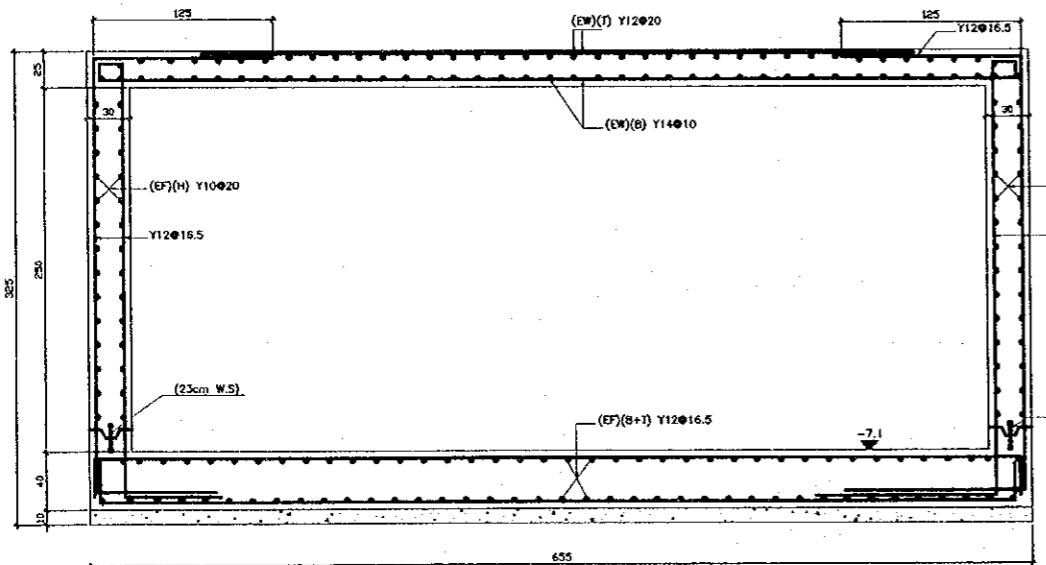
PLAN REINFORCEMENT DETAIL
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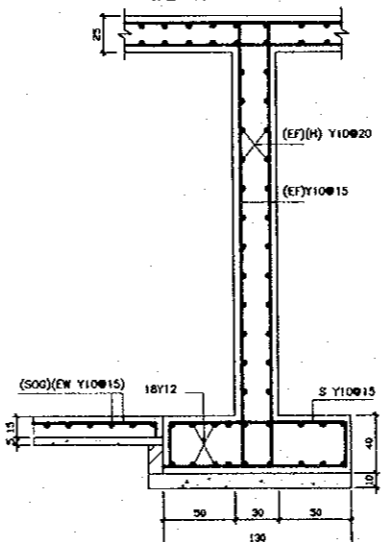
SECTION THROUGH C1
SCALE = 1/20



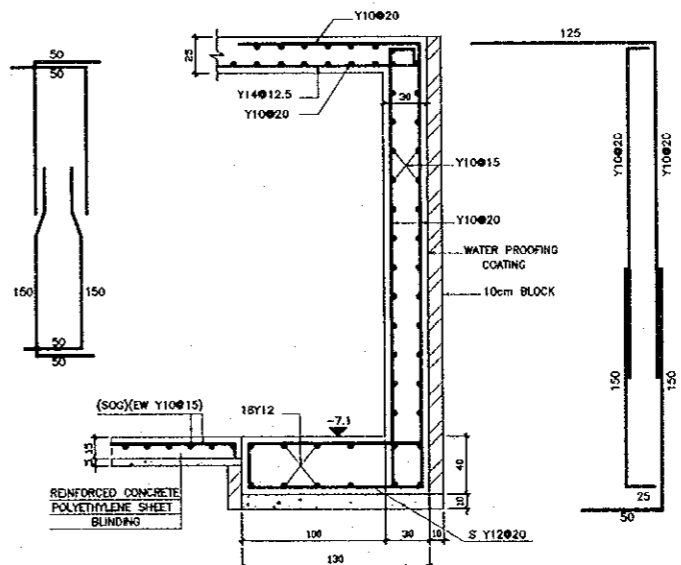
SECTION THROUGH GENERATOR
SCALE = 1/20



SECTION (1-1) THROUGH WATER TANK
SCALE = 1/20



SECTION (TW2)
SCALE = 1/20



SECTION (TW1)
SCALE = 1/20

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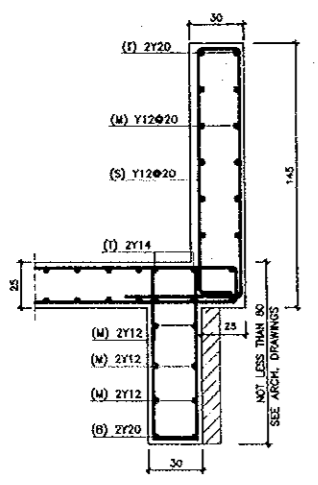
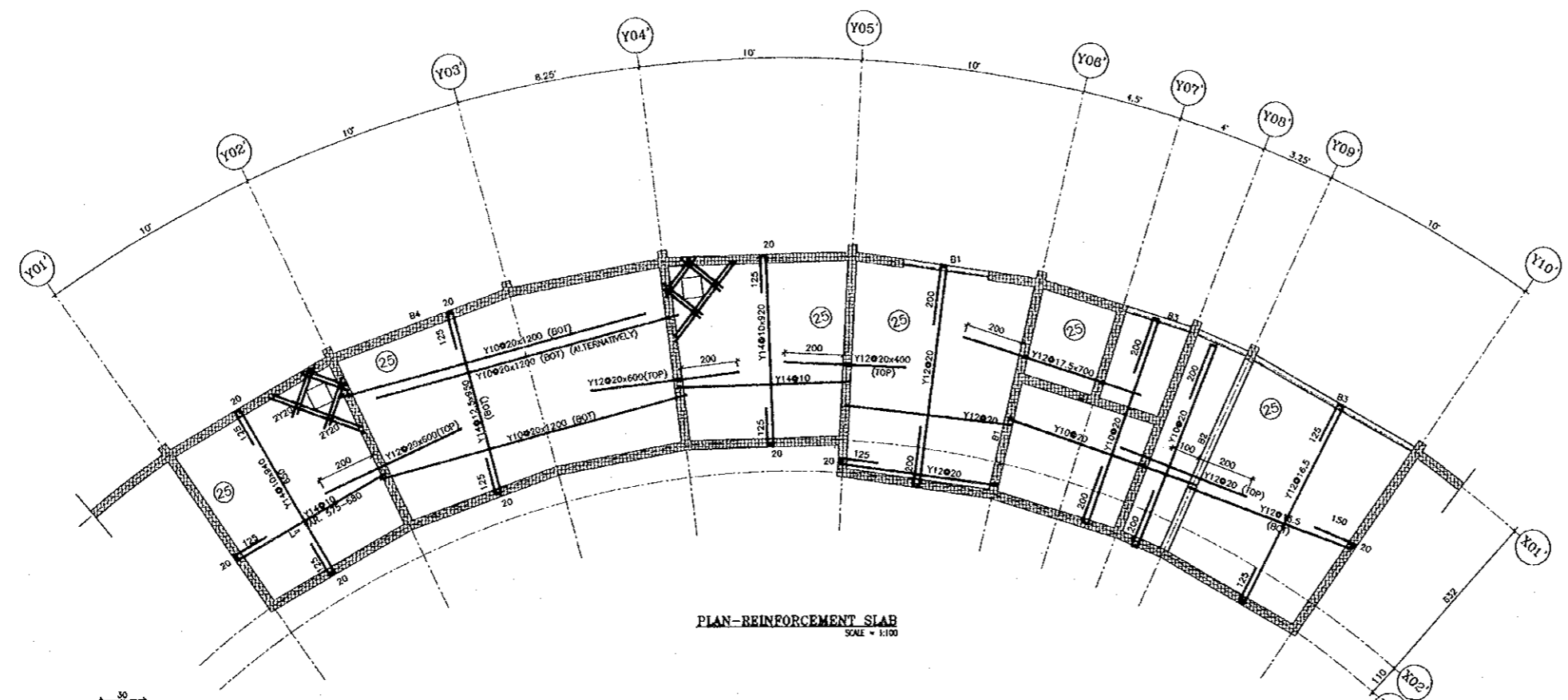
**PUMP STATION & GENERATOR
FOUNDATION PLAN & DETAILS**

Drawing Title:

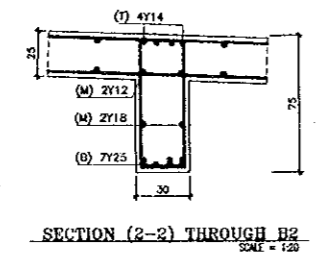
Scale: 1/20
1/25
1/100

Drawing No.: DSPC.S-022

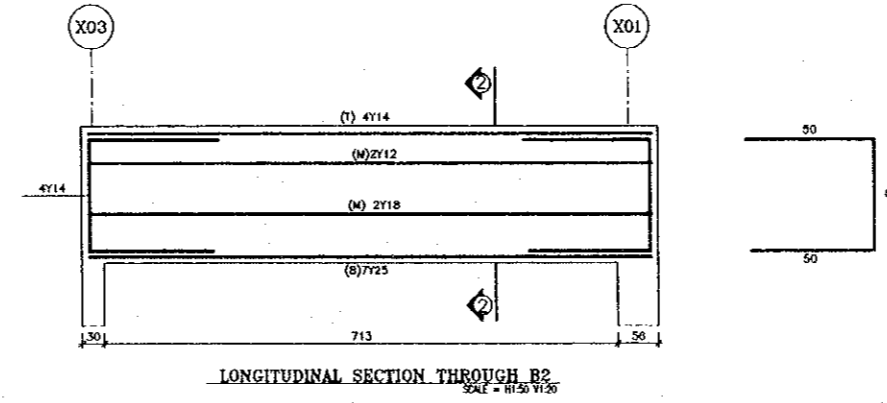
119



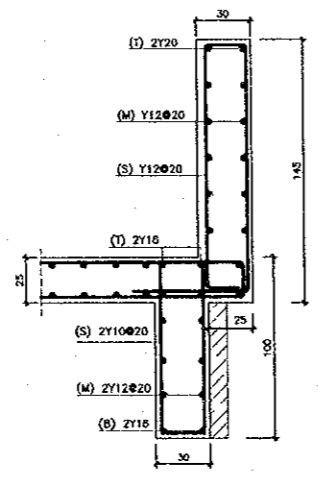
SECTION THROUGH B1
SCALE = 1/20



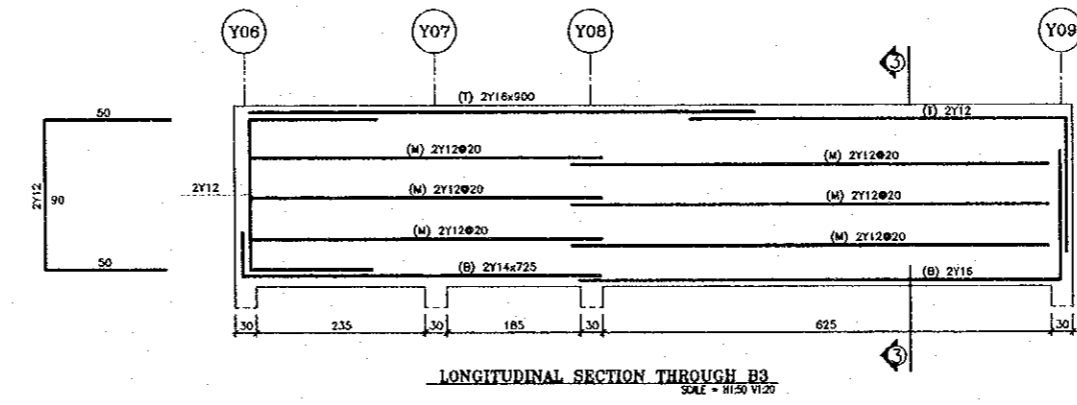
SECTION (2-2) THROUGH B2
SCALE = 1/20



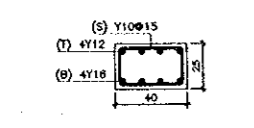
LONGITUDINAL SECTION THROUGH B2
SCALE = 1/50 V1/20



SECTION (3-3) THROUGH B3
SCALE = 1/20



LONGITUDINAL SECTION THROUGH B3
SCALE = 1/50 V1/20



SECTION THROUGH B4
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:
Dead Sea Panoramic Complex

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CONSULTING & ENGINEERING
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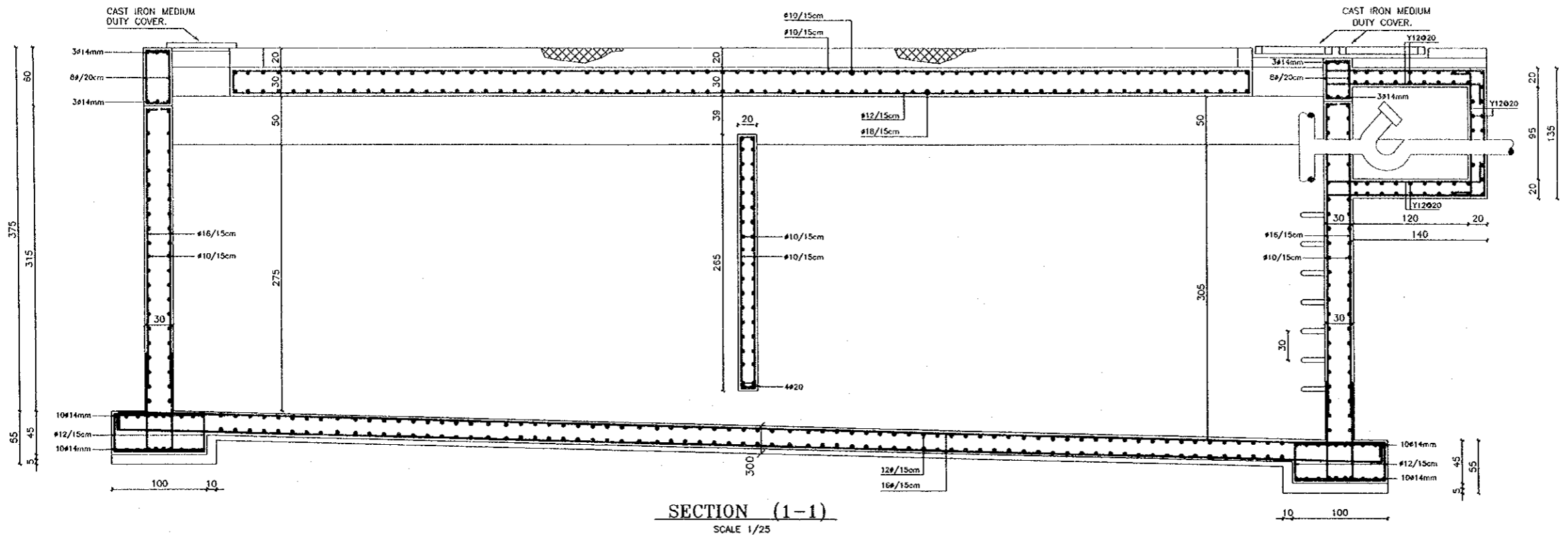
Date: June 2000

**PUMP STATION & GENERATOR
REINFORCEMENT OF SLAB PLAN & DETAILS**

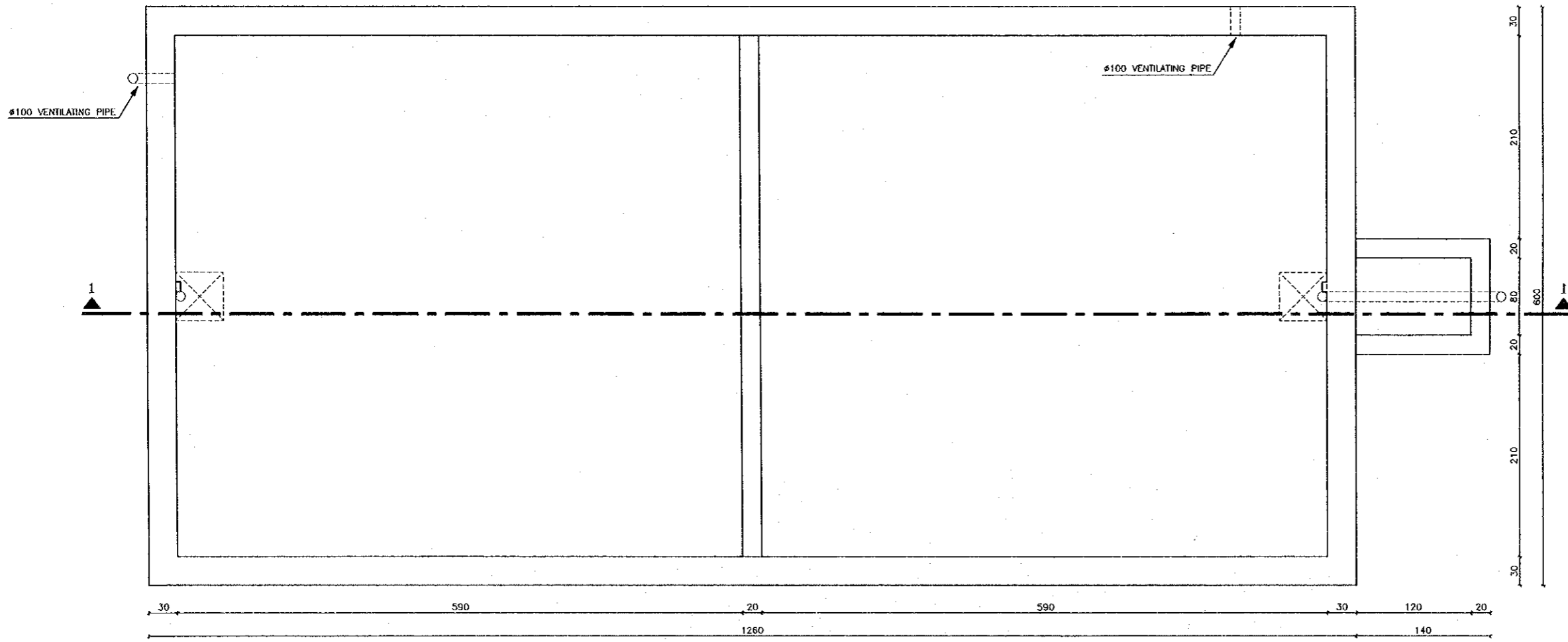
Drawing Title:

Scale: 1/20
1/50
1/100

Drawing No.: DSPC.S-023



SECTION (1-1)
SCALE 1/25



LAYOUT OF PERCOLATING PIT AND SEPTIC TANK
SCALE 1/25

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:
Dead Sea Panoramic Complex

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TEL: 4612377 - Fax: 4612380 - AMMAN - JORDAN

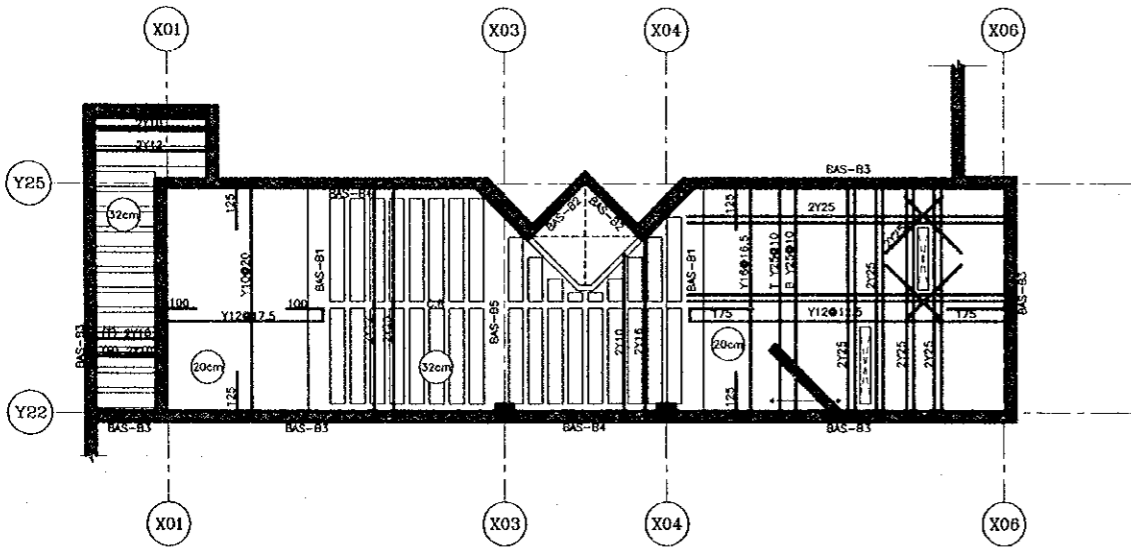
Date: June 2000

**IMPREVIOUS CESS POOL
STRUCTURAL DETAILS**

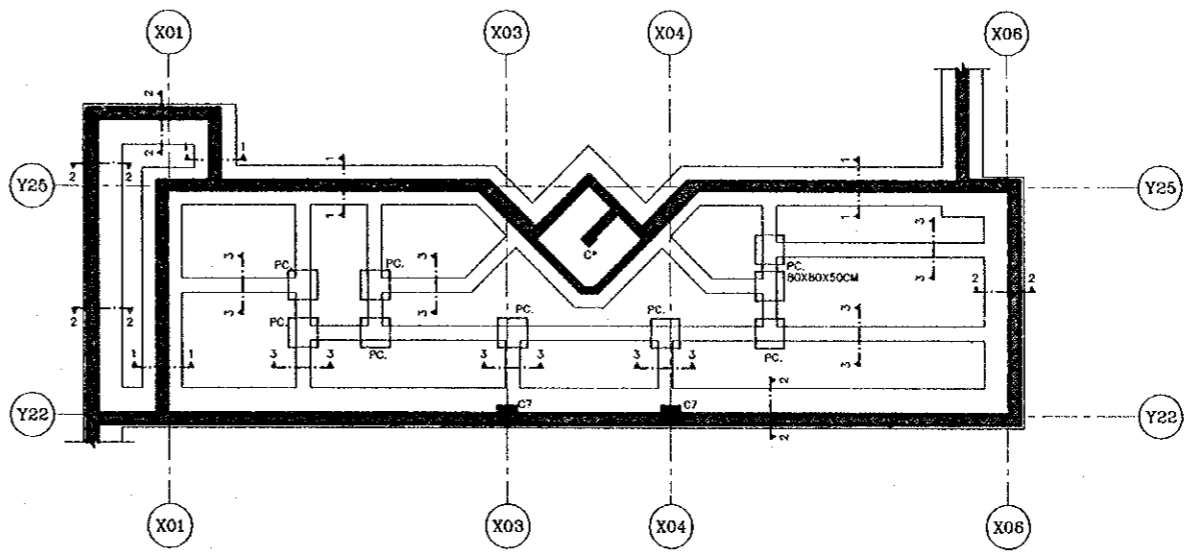
Drawing Title:

Scale: 1/25 Drawing No.: DSPCS-024

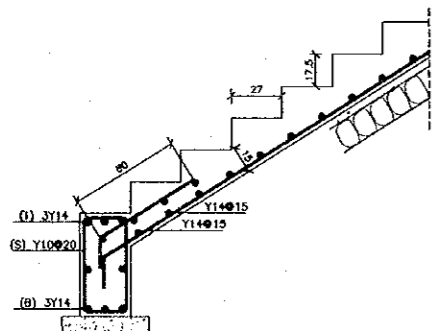
121



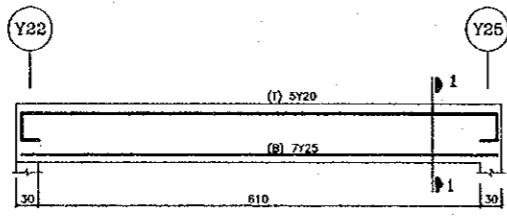
REINFORCEMENT SLAB
SCALE 1:100



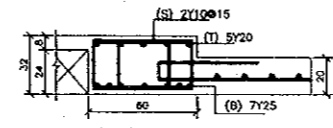
FOUNDATION PLAN
SCALE 1:100



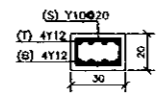
TYPICAL SECTION THROUGH STAIR ON GROUND
SCALE 1:20



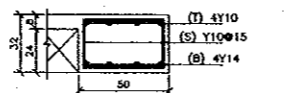
LONG SECTION THROUGH BAS-B1
SCALE H 1/50 V 1/20



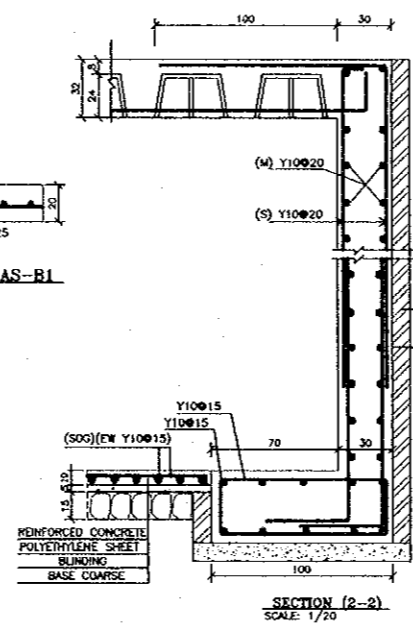
SECTION (1-1) THROUGH BAS-B1
SCALE 1:20



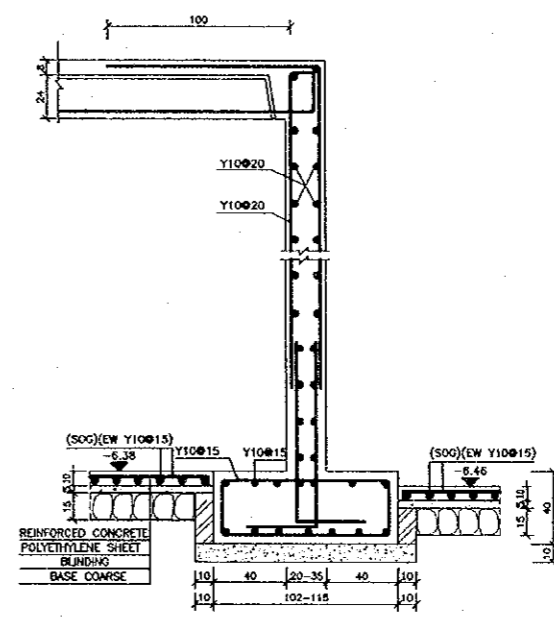
SECTION (3-3) THROUGH BAS-B3
SCALE 1:20



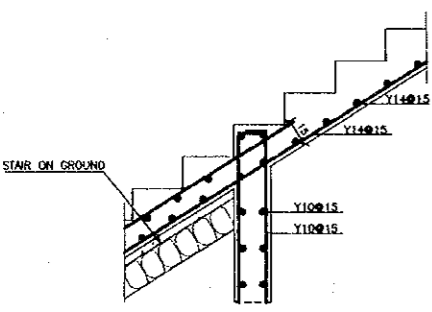
SECTION (4-4) THROUGH BAS-B4
SCALE 1:20



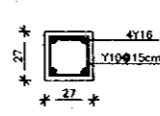
SECTION (2-2)
SCALE 1/20



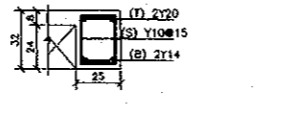
SECTION (1-1)
SCALE 1/20



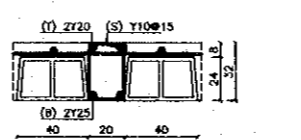
TYPICAL SECTION THROUGH STAIR
SCALE 1:20



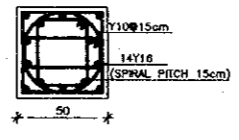
SECTION THROUGH C* (AT BASEMENT)
SCALE 1/20



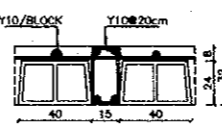
SECTION (2-2) THROUGH BAS-B2
SCALE 1:20



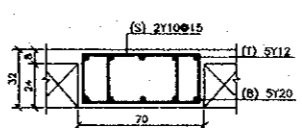
TYPICAL SECTION THROUGH CROSS RIB
SCALE 1/20



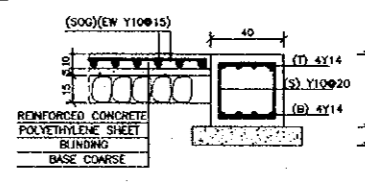
SECTION THROUGH C7 (AT BASEMENT)
SCALE 1/20



TYPICAL SECTION THROUGH RIBS SLAB
SCALE 1/20



SECTION THROUGH BAS-B5
SCALE 1:20



SECTION (3-3)
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:
Dead Sea Panoramic Complex

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Subcontracted Local Consultant:

consolidated consultants
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Tel: 1612377 - Fax: 4112390 - AMNH - JORDAN

Date: June 2000

**RESTAURANT BASEMENT
STRUCTURAL DETAILS**
Drawing Title:

Scale: 1/20
1/100
Drawing No.: DSPC.S-025

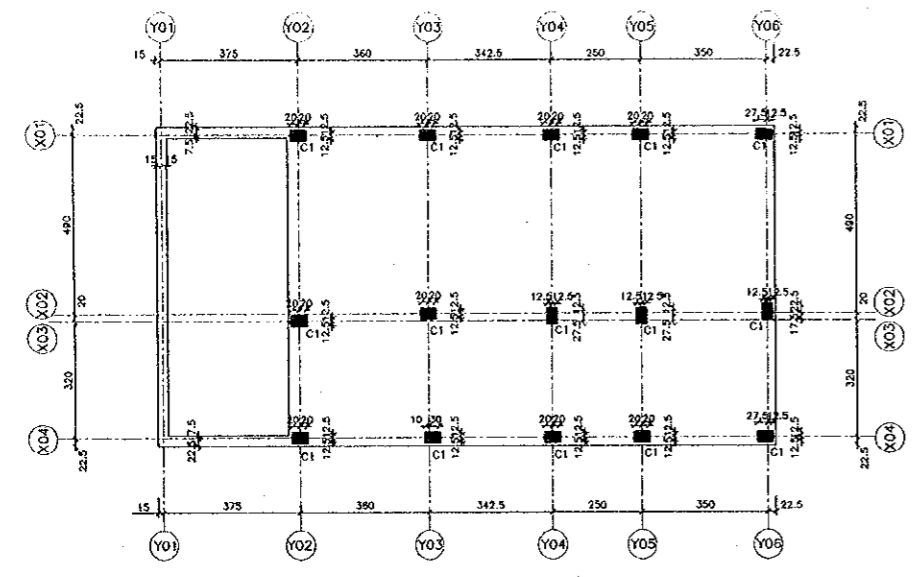
122

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

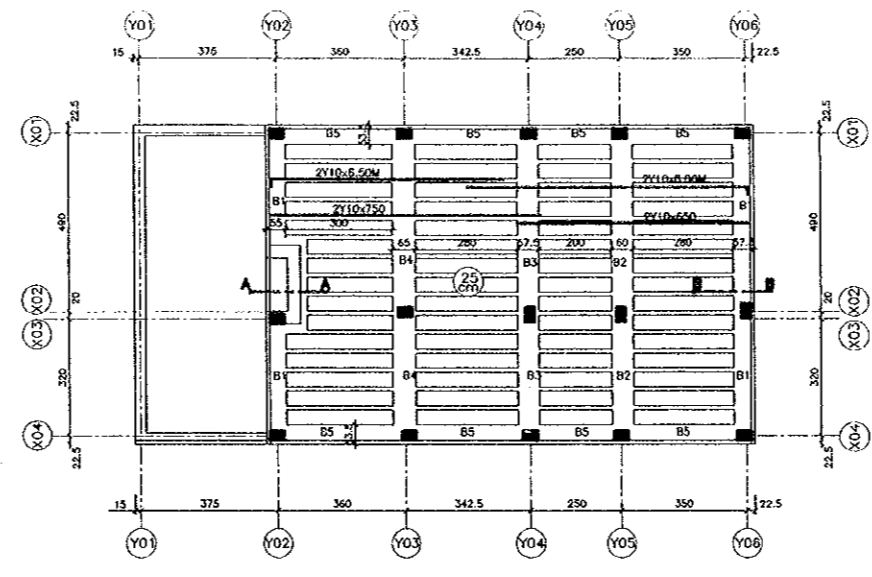
Executing Agency:
The Ministry of Tourism and Antiquities
The Ministry of Planning

SUB-PROJECT:
Dead Sea Panoramic Complex

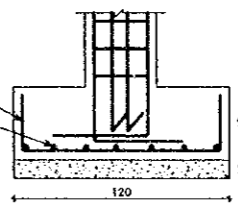
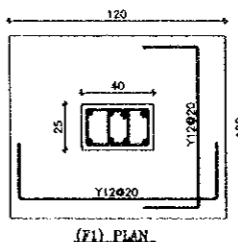
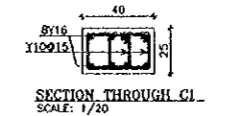
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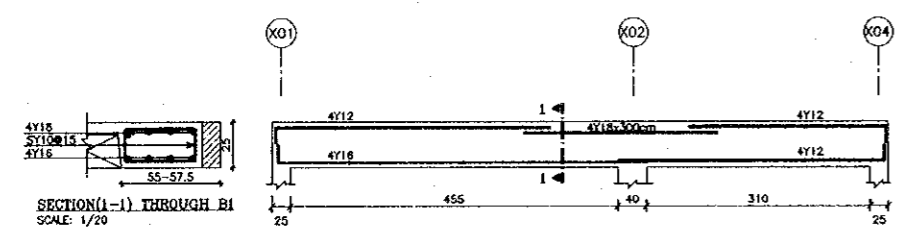
AXIS COLUMN
SCALE: 1:100



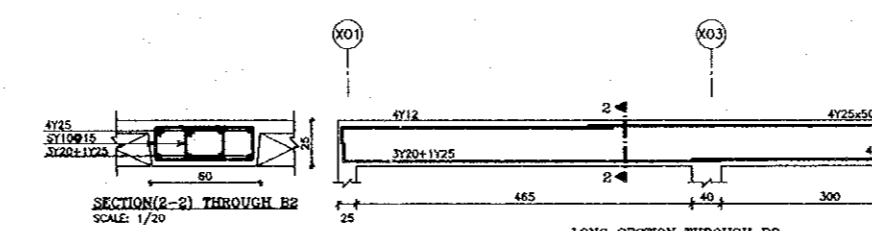
SLAB REINFORCEMENT
SCALE: 1:100



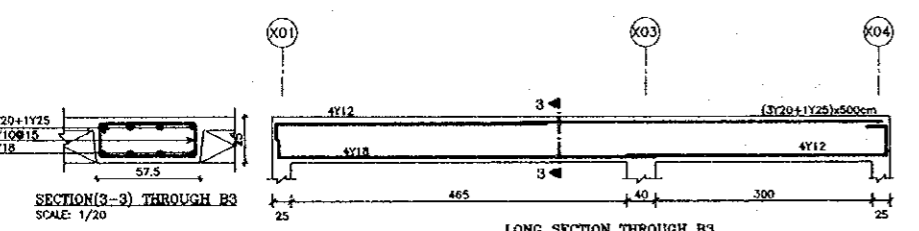
DETAIL THROUGH FOOT (F1)
SCALE: 1/20



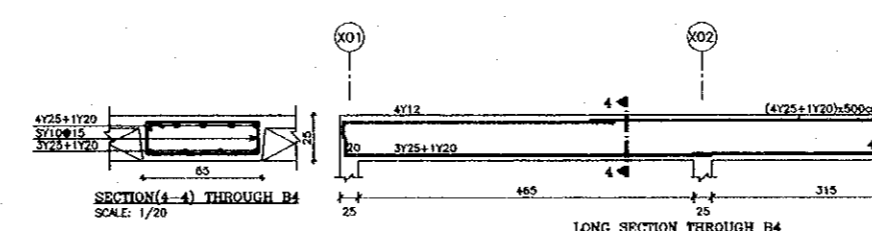
LONG SECTION THROUGH B1
SCALE= H:1/50-V:1/20



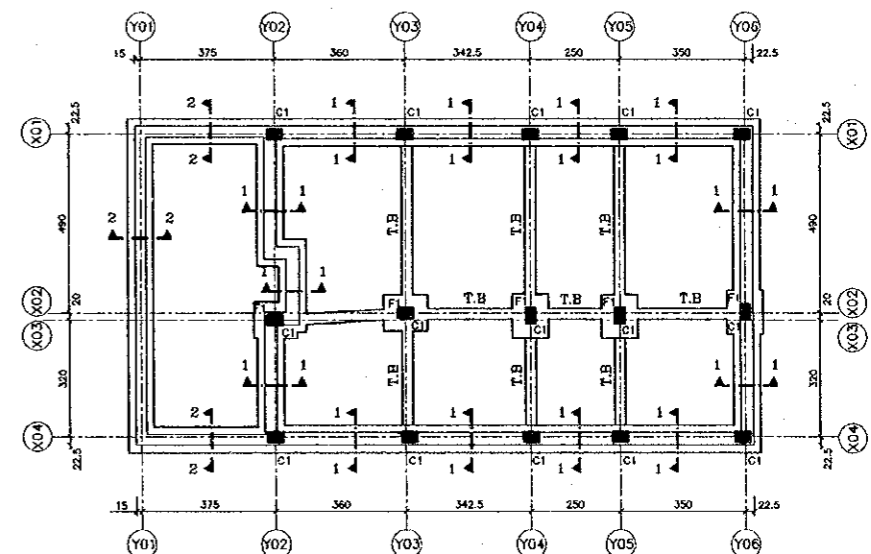
LONG SECTION THROUGH B2
SCALE= H:1/50-V:1/20



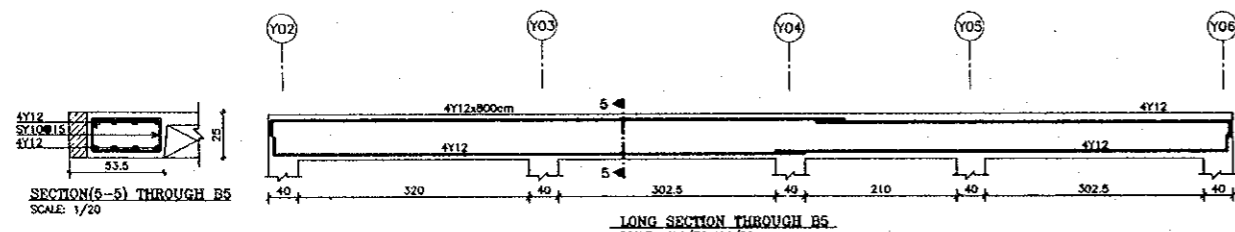
LONG SECTION THROUGH B3
SCALE= H:1/50-V:1/20



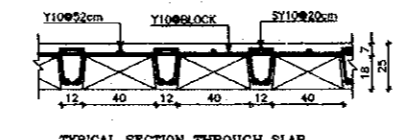
LONG SECTION THROUGH B4
SCALE= H:1/50-V:1/20



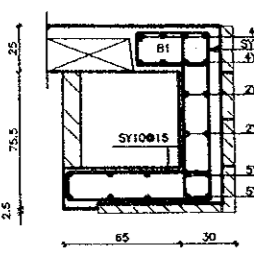
FOUNDATION REINFORCEMENT
SCALE: 1:100



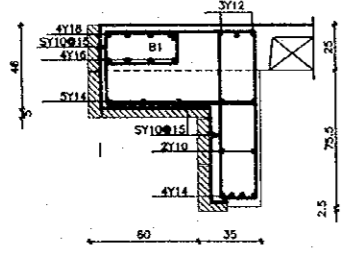
LONG SECTION THROUGH B5
SCALE= H:1/50-V:1/20



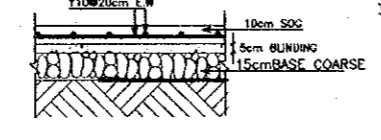
TYPICAL SECTION THROUGH SLAB
SCALE: 1/20



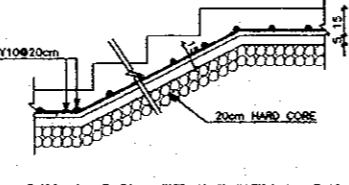
SECTION B-B
SCALE: 1:20



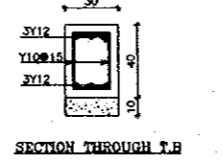
SECTION A-A
SCALE: 1:20



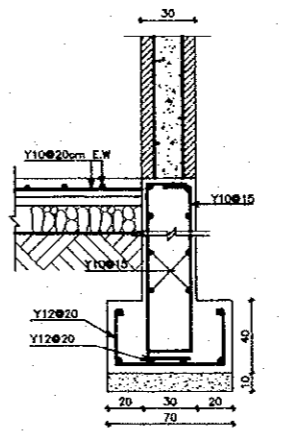
TYPICAL SECTION THROUGH SLAB ON GRADE (SOG)
SCALE: 1/20



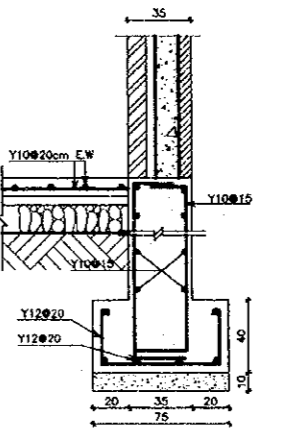
TYPICAL SECTION THROUGH EXTERIOR STAIR
SCALE: 1/20



SECTION THROUGH T.B
SCALE: 1/20



SECTION 2-2 THROUGH EXTERIOR WALL
SCALE: 1/20



SECTION 1-1 THROUGH EXTERIOR WALL
SCALE: 1/20

Designed by:
Japan International Cooperation
Agency (JICA)

JICA Study Team:
Joint Venture of
Pacific Consultants International and
Yomasita Sakkel Inc.

Subcontracted Local Consultant:

consolidated consultants
engineering & environment
TEL: 4612377 - FAX: 4612360 - AMMAN - JORDAN

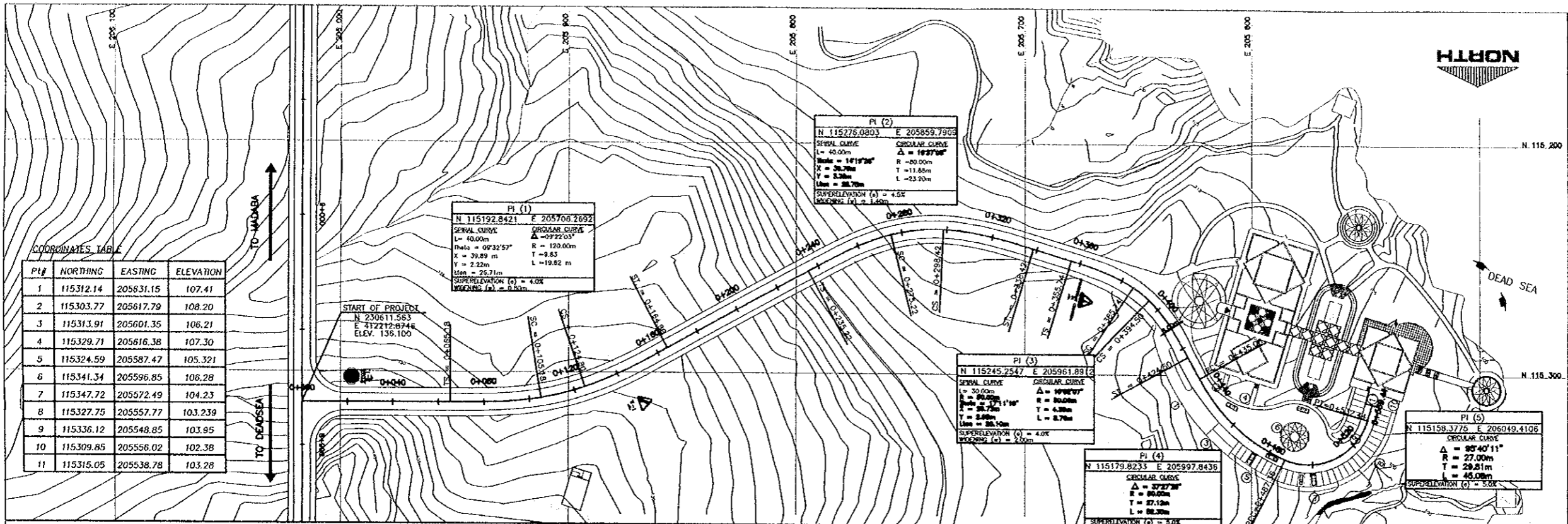
Date: June 2000

**SITE SUPERVISION OFFICE
STRUCTURAL DETAILS**

Drawing Title:

Scale: AS SHOWN Drawing No.: DSPC.S-026

123



COORDINATES TABLE

PI#	NORTHING	EASTING	ELEVATION
1	115312.14	205631.15	107.41
2	115303.77	205617.79	108.20
3	115313.91	205601.35	106.21
4	115329.71	205616.38	107.30
5	115324.59	205587.47	105.321
6	115341.34	205596.85	106.28
7	115347.72	205572.49	104.23
8	115327.75	205557.77	103.239
9	115336.12	205548.85	103.95
10	115309.85	205556.02	102.38
11	115315.05	205538.78	103.28

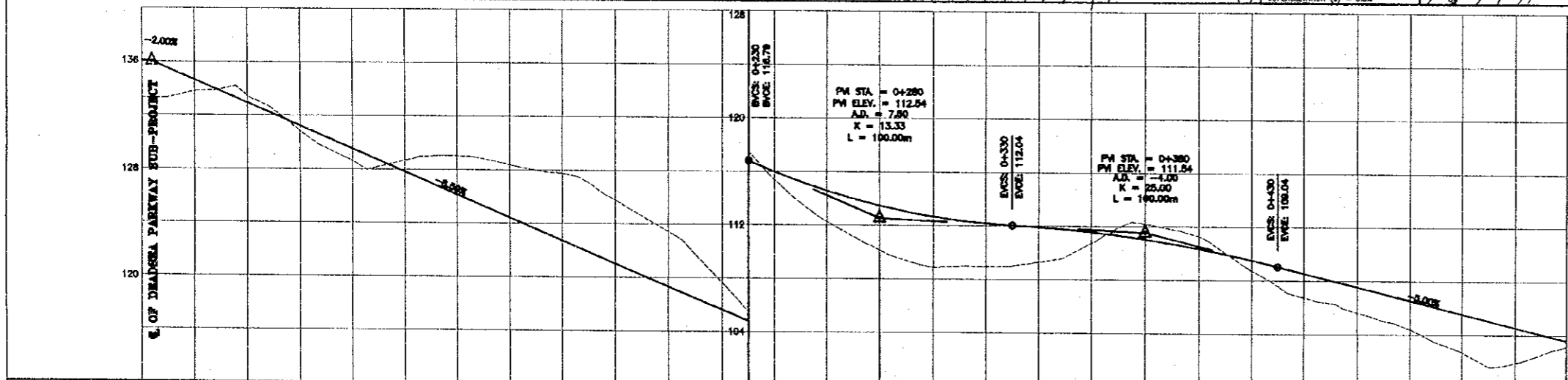
Project:
Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

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

SUB-PROJECT:
Dead Sea Panoramic Complex

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.

- NOTES:--**
- CONTRACTOR AND PRIOR TO ANY CONSTRUCTION WORK MUST :
- LOCATE ALL REFERENCE POINTS , PIs , BMsetc..
- CHECK ALL NATURAL GROUND LEVELS .
- PROPOSE IMPROVEMENTS TO THE VERTICAL ALIGNMENT IF NGL VARIES FROM THE DRAWINGS TO THE APPROVAL OF THE ENGINEER.
 - THE CONTRACTOR SHALL NOT BE ENTITLED FOR ANY PAYMENT OR EXTENSION OF TIME TO DO WHAT'S MENTIONED ABOVE IN (1).
 - FOR CUT AND FILL SLOPES SEE RELEVANT CROSS SECTIONS.
 - FOR MARKING AND SIGNING SEE DRAWING No. (DSPC.R-002 & DSPC.R-003) .
 - WIDENING SHALL BE APPLIED AT BOTH SIDES OF THE ROAD . EACH SIDE SHALL BE WIDENED BY A VALUE (W/2) .
 - ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE INDICATED .



STATIONING	PROPOSED DESIGN LEVEL (P.D.L)	NATURAL GROUND LEVEL (N.G.L)
0+000	136.100	133.32
0+020	134.840	133.78
0+040	132.840	133.48
0+060	131.340	130.85
0+080	128.840	128.82
0+100	127.840	128.88
0+120	126.140	128.01
0+140	124.440	128.37
0+160	122.740	127.74
0+180	121.040	126.78
0+200	119.340	123.46
0+220	117.840	119.85
0+240	116.978	118.39
0+260	114.878	114.28
0+280	113.478	110.14
0+300	112.878	108.87
0+320	112.178	108.88
0+340	111.820	108.31
0+360	111.860	110.78
0+380	111.040	112.18
0+400	110.380	111.30
0+420	109.620	108.72
0+440	108.540	108.74
0+460	107.240	108.83
0+480	106.840	104.40
0+500	106.840	102.70
0+520	104.840	101.81

VERTICAL ALIGNMENT: g = -2.0% (0+000 to 0+280), g = -8.50% (0+280 to 0+420), g = -5.0% (0+420 to 0+920). Vertical curves are 100.00m long.

HORIZONTAL ALIGNMENT: STRAIGHT, CURVE 1, STRAIGHT, CURVE 2, CURVE 3, STRAIGHT, CURVE 4, CURVE 5.

SUPERELEVATION: MSE = 4.0% (0+000 to 0+280), MSE = 4.0% (0+280 to 0+420), MSE = 5.0% (0+420 to 0+920). Values are shown for both sides of the road.

Designed by:
Japan International Cooperation Agency (JICA)

JICA Study Team:
Joint Venture of Pacific Consultants International and Yamasilo Sakkel Inc.

Subcontracted Local Consultant:
consolidated consultants
engineering & environment
TEL 652377 - FAX 652380 - AMMAN - JORDAN

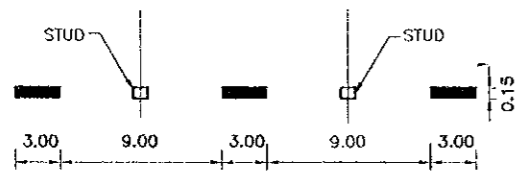
Date: June 2000

PLAN PROFILE
STA.0+000 - STA.0+639.41

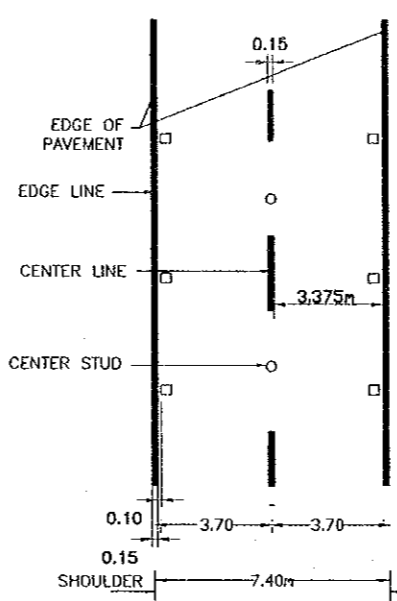
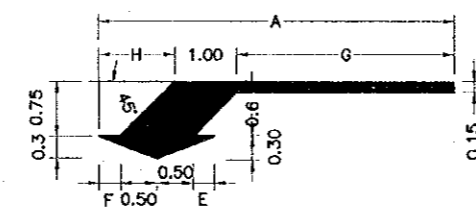
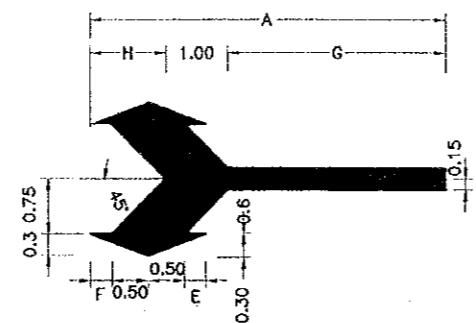
Drawing Title:

Scale: AS SHOWN **Drawing No.:** DSPC.R-001

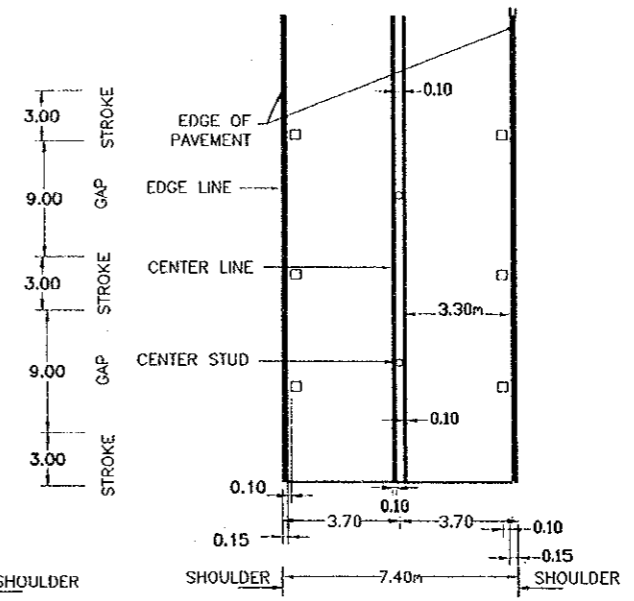
121



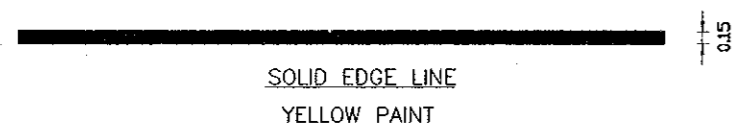
CENTER LINE MARKING
LONGITUDINAL MARKING



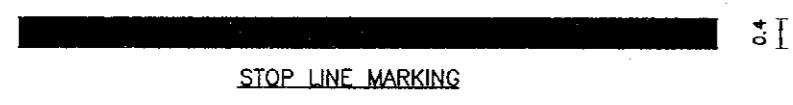
NORMAL MARKING



OVERTAKING PROHIBITED AREAS MARKING

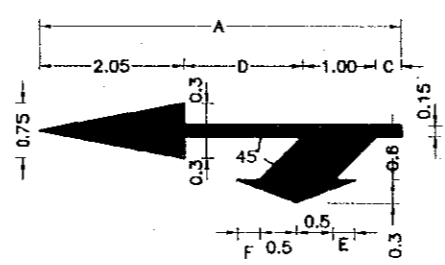
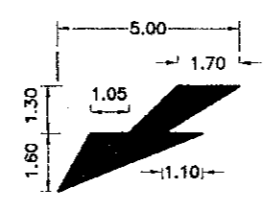
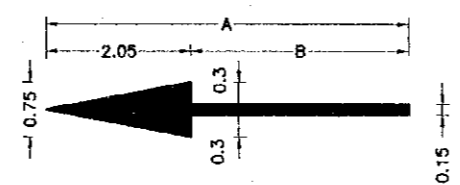


SOLID EDGE LINE
YELLOW PAINT



STOP LINE MARKING

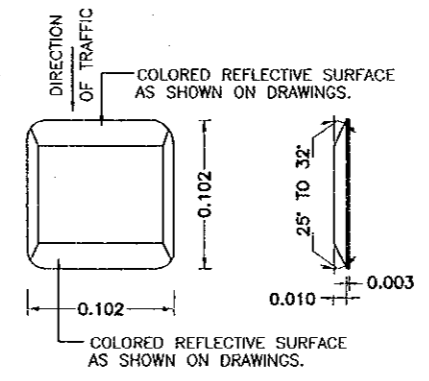
TRANSVERSAL MARKINGS
WHITE LINES



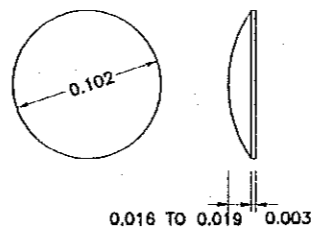
ARROW MARKING

TYPE OF HIGHWAY	DIMENSION OF ARROW							
	A	B	C	D	E	F	G	H
PRIMARY	7.50	5.45	1.45	3.00	1.20	1.30	4.45	2.05
SECONDARY	5.00	2.95	0.35	1.60	0.70	0.80	2.45	1.55

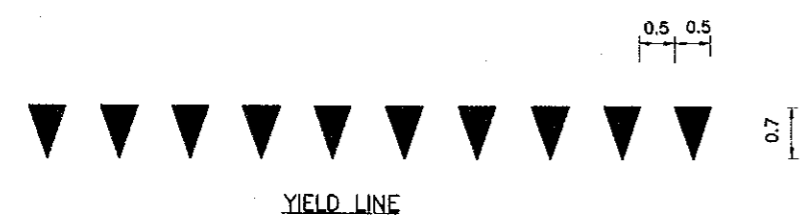
MARKING LAYOUT ON TWO LANE ROAD



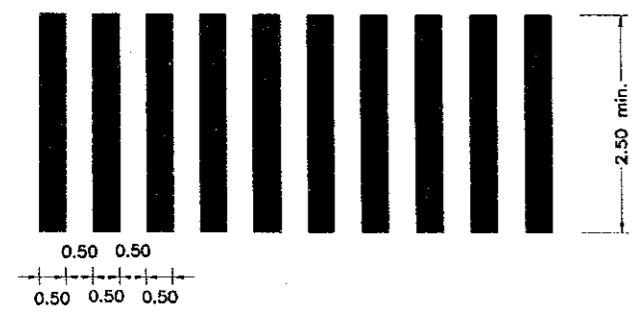
STUD OR PLAIN PRISMATIC
REFLECTIVE PAVEMENT MARKER
N.T.S



NON REFLECTIVE WHITE
RAISED PAVEMENT MARKER
N.T.S



YIELD LINE



PEDESTRIAN CROSSING MARKING

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:
Dead Sea Panoramic Complex

Note:
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- NOTES:-
- 1) ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE INDICATED .
 - 2) PAVEMENT MARKINGS SHOULD CONFORM TO THE TRAFFIC CONTROL DEVICES BY MPWH OF THE HASHEMITE KINGDOM OF JORDAN .

Designed by:
Japan International Cooperation Agency (JICA)

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

Subcontracted Local Consultant:



Date: June 2000

ROAD MARKING DETAILS

Drawing Title:

Scale: AS SHOWN Drawing No.: DSPC.R-002

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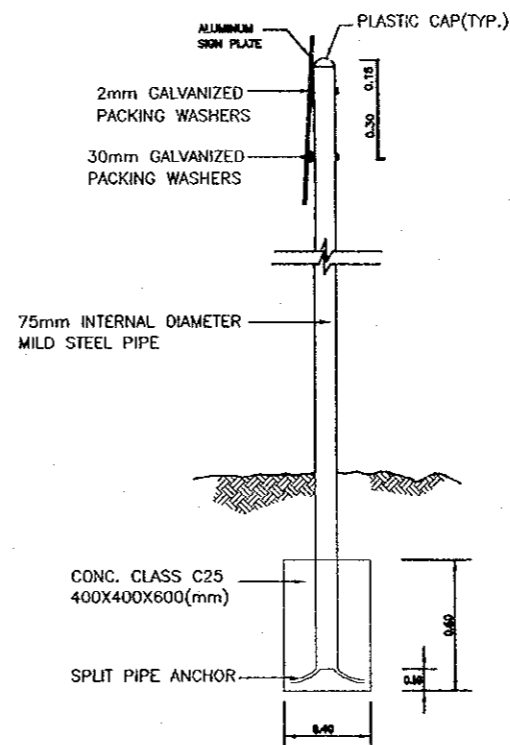
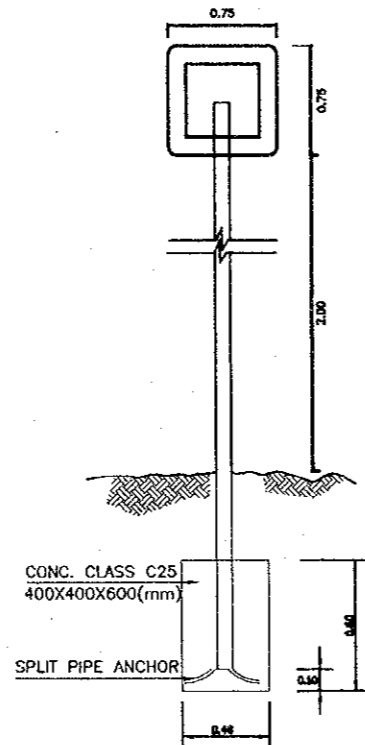
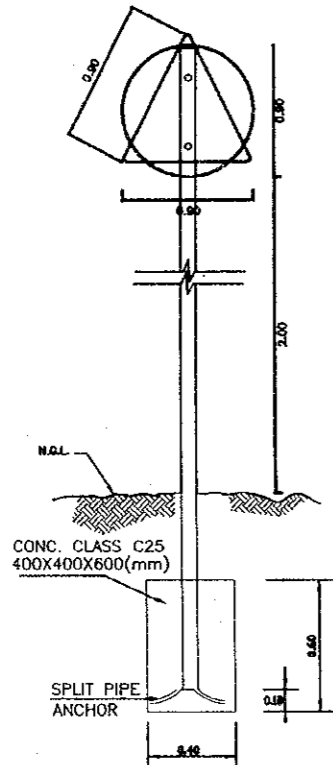
RIGHT BEND
(W1)



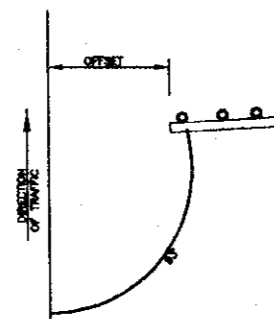
PEDESTRIAN CROSSING
(W1)



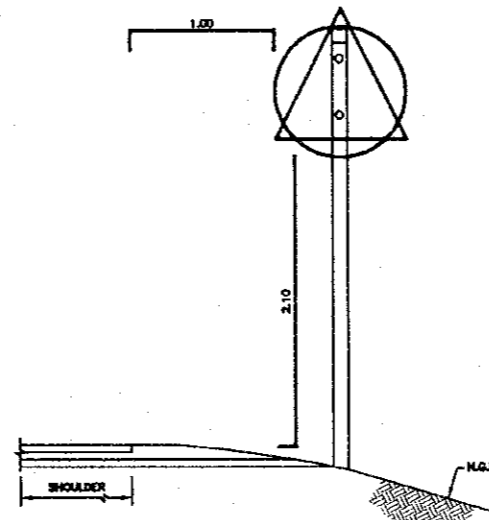
STOP
(R1)



WARNING & REGULATORY SIGNS



ORIENTATION OF SIGN FACE



Project:
Tourism Sector Development Project
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Executing Agency:
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The Ministry of Planning

SUB-PROJECT:
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NOTES:-

- 1) ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE INDICATED.
- 2) THE CONTRACTOR SHALL SUBMIT SHOP DRAWING FOR MOUNTING DETAILS FOR EACH SIGN TO THE APPROVAL OF THE ENGINEER.
- 3) ALL TRAFFIC SIGNS SHOULD CONFORM TO THE MANUAL ON TRAFFIC CONTROL DEVICES OF MPWH OF THE HASHEMITE KINGDOM OF JORDAN

DANGER - WARNING SIGNS

- 1) UNLESS OTHERWISE SHOWN ON THE PLANS, THE SIGNS SHALL BE PLACED AT NOT LESS THAN 150m, AND NOT MORE THAN 250m FROM THE HAZARD UNLESS THIS IS IMPRACTICABLE ON ACCOUNT OF LOCAL CONDITIONS IN SUCH CASE THE SIGNS SHALL BE PLACED AS PER INSTRUCTION OF THE ENGINEER REPRESENTATIVE.

REGULATORY SIGNS

- 1) THE SIGNS SHALL BE PLACED IN THE IMMEDIATE VICINITY OF THE POINT WHERE THE PROHIBITION OR OBLIGATION STARTS OR CONTINUES. NEVERTHELESS THE SIGN PROHIBITING TURNING OR SHOWING THE DIRECTION TO BE FOLLOWED MAY BE PLACED AT A SUITABLE DISTANCE IN ADVANCE.

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: 4612777 - Fax: 4612300 - AMMAN - JORDAN

Date: June 2000

SIGNS & SIGN SUPPORT DETAILS

Drawing Title:

Scale: AS SHOWN Drawing No.: DSPC.R-003

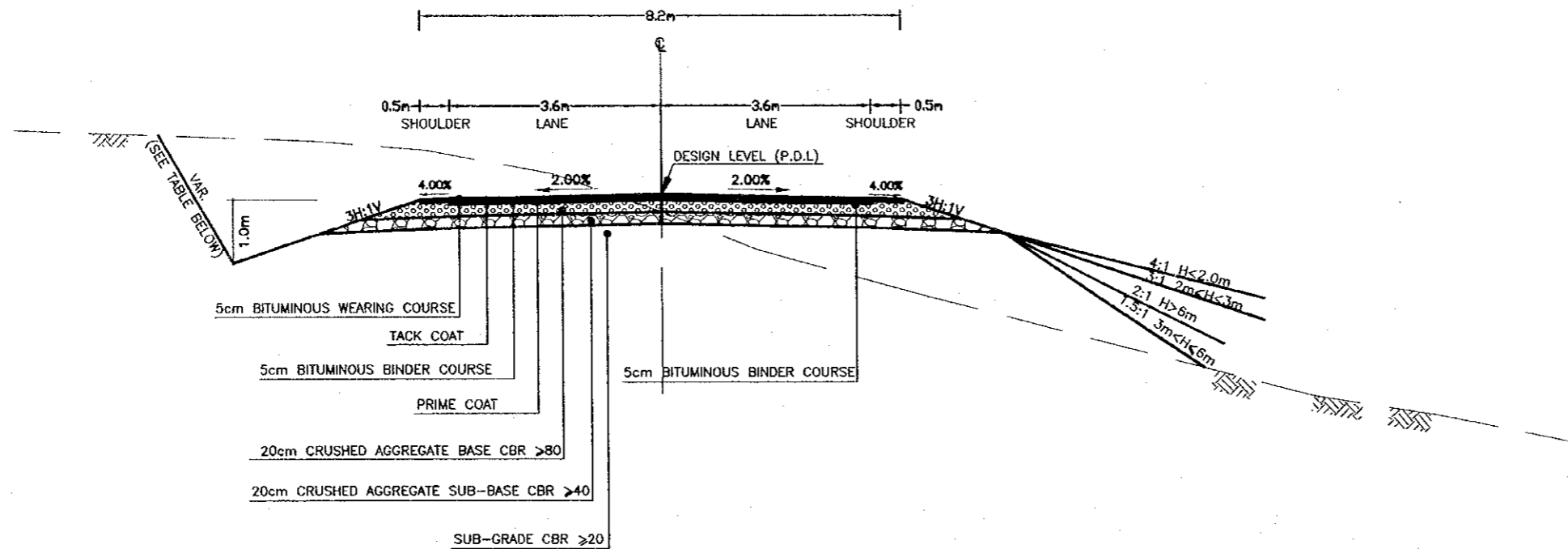
127

Project:
Tourism Sector Development Project
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The Ministry of Planning

SUB-PROJECT:
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TYPICAL ROAD SECTION
SCALE 1:50

PROPOSED CUT SLOPES TABLE

TYPE OF MATERIAL	PROPOSED CUT SLOPE
TALUS DEPOSIT	1H : 1V
LISAN SAND , MARL	1.3H : 1V
WEATHERED SANDSTONE	1H : 1V
SANDSTONE	0.5H : 1V

NOTES:-

- CUT SLOPES MIGHT BE REVISED TO SUIT SITE CONDITIONS UPON THE REQUEST OF THE ENGINEER.
- FOR STEEP AREAS 2H : 1V EMBANKMENT SLOPES SHALL BE USED EVEN IF (H) IS LESS THAN 6.0m.
- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE INDICATED.

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
INCORPORATED IN JAPAN
TEL: 03-3557-1111 FAX: 03-3557-1112

Date: June 2000

TYPICAL CROSS SECTION

Drawing Title:

Scale: AS SHOWN Drawing No.: DSPC.R-004

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

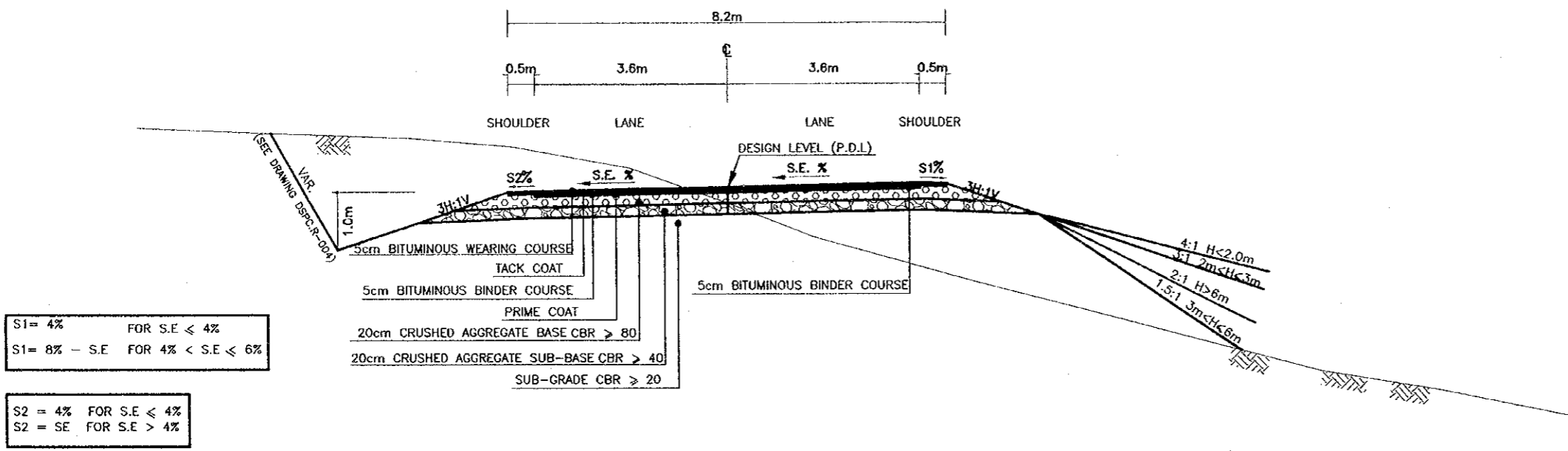
Executing Agency:
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The Ministry of Planning

SUB-PROJECT:
Dead Sea Panoramic Complex

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NOTES:-

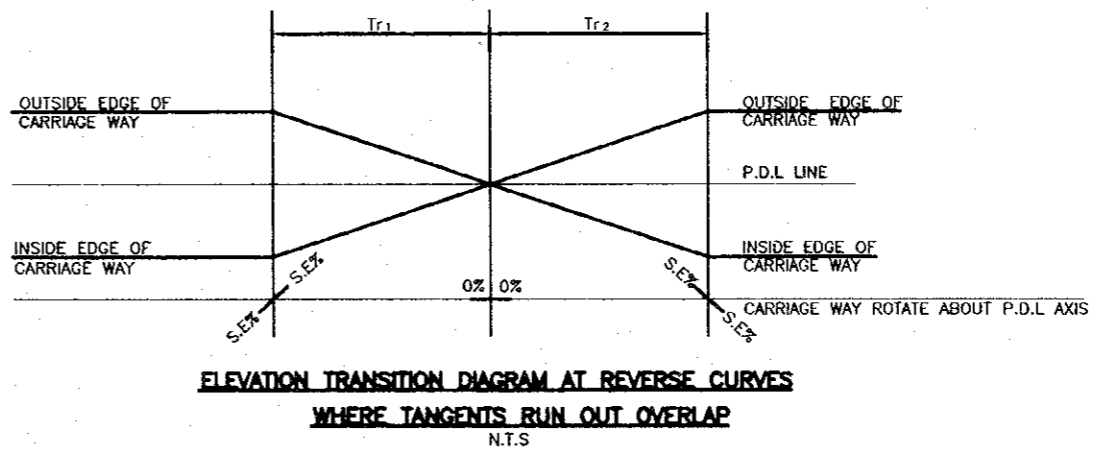
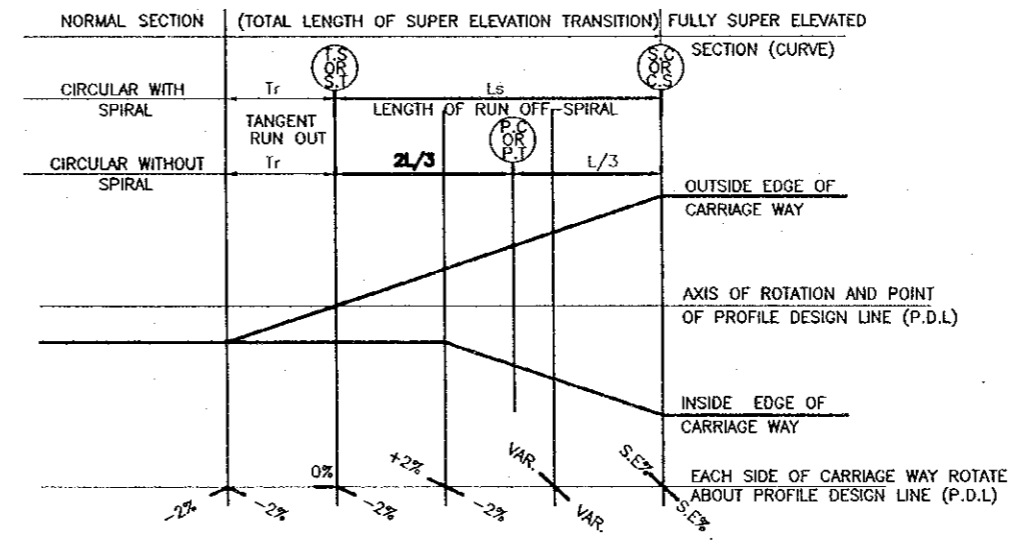
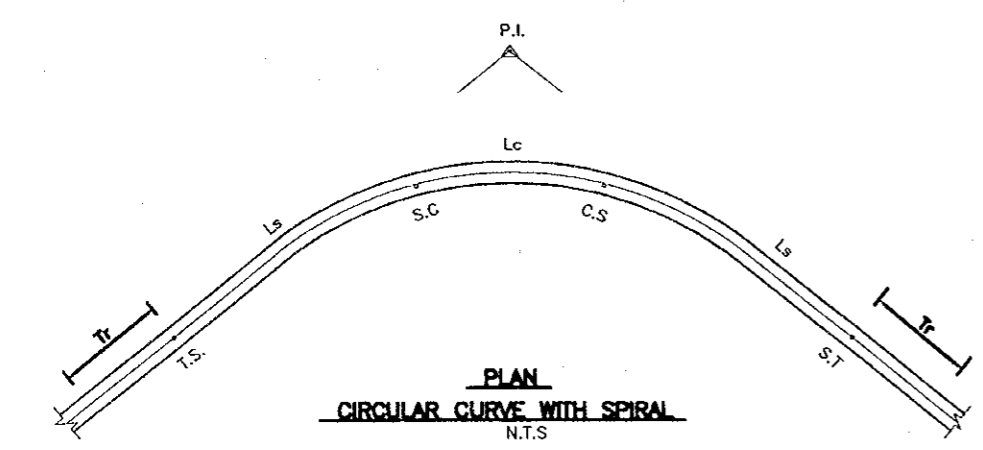
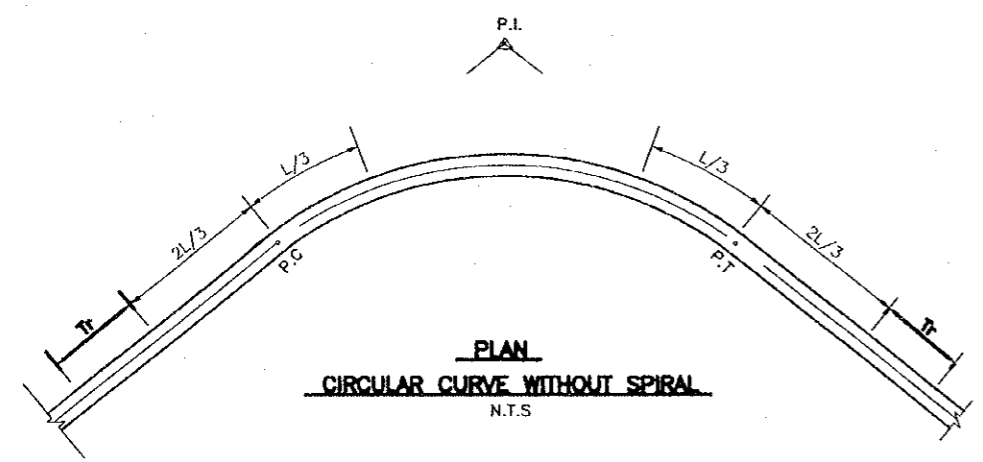
- 1) ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE INDICATED.
- 2) FOR EMBANKMENT CUT & FILL SLOPES SEE DRAWING DSPC.R-004



S1 = 4% FOR S.E. ≤ 4%
S1 = 8% - S.E. FOR 4% < S.E. ≤ 6%

S2 = 4% FOR S.E. ≤ 4%
S2 = SE FOR S.E. > 4%

TYPICAL SUPER ELEVATED SECTION
SCALE 1:50



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: 4612377 - Fax: 4612380 - AMMAN - JORDAN

Date: June 2000

TYPICAL SUPER ELEVATED SECTION

Drawing Title:

Scale: AS SHOWN Drawing No.: DSPC.R-005

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