

Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

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

Sub-Project:
NATIONAL MUSEUM

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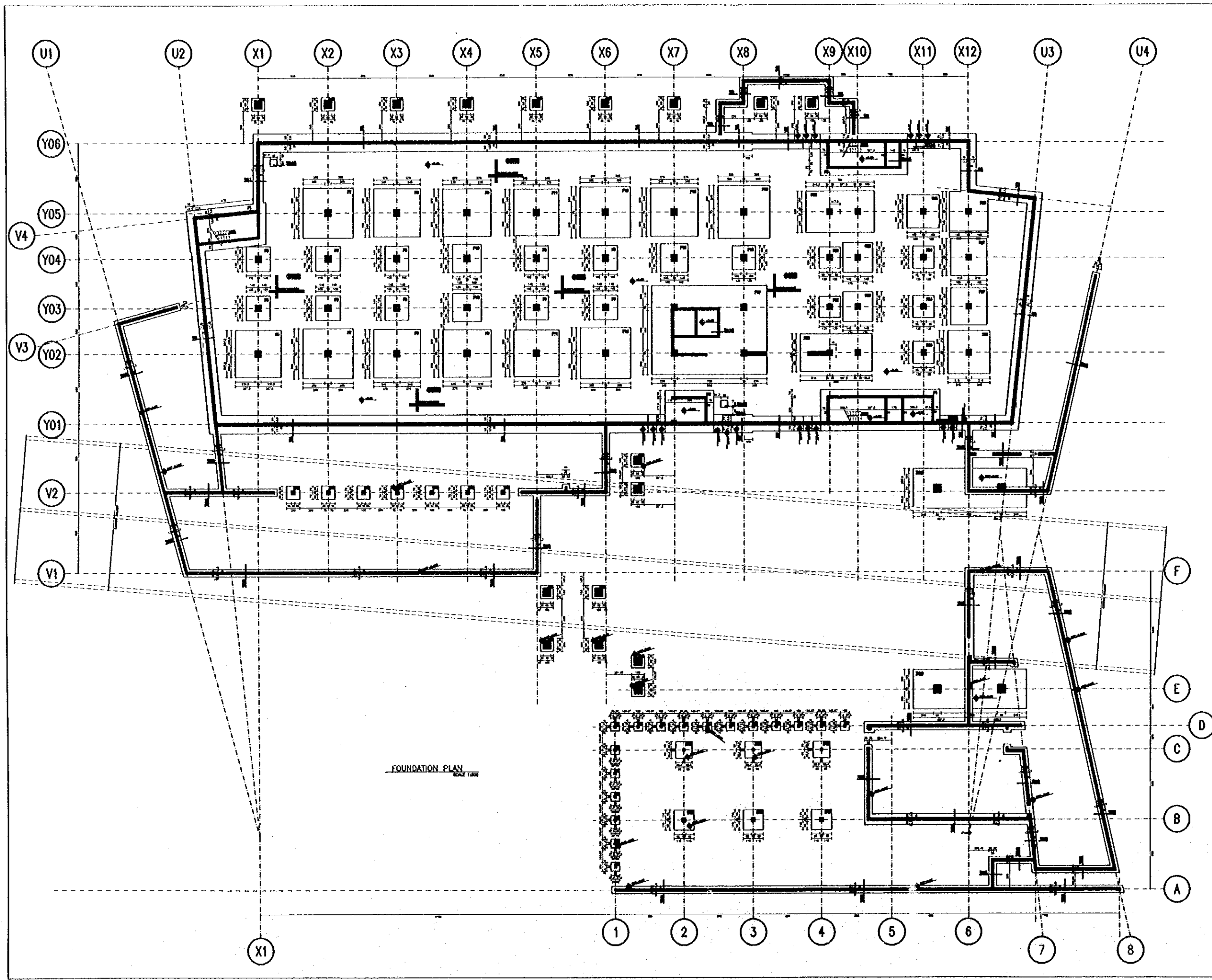
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Subcontracted Local Consultant:
Jafar Tukon and Partners
Architects and Engineers

Drawing Title:
SUB-FOUNDATION PLAN

Scale: 1:200 Drawing No.: S-100

105



Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

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

Sub-Project:
NATIONAL MUSEUM

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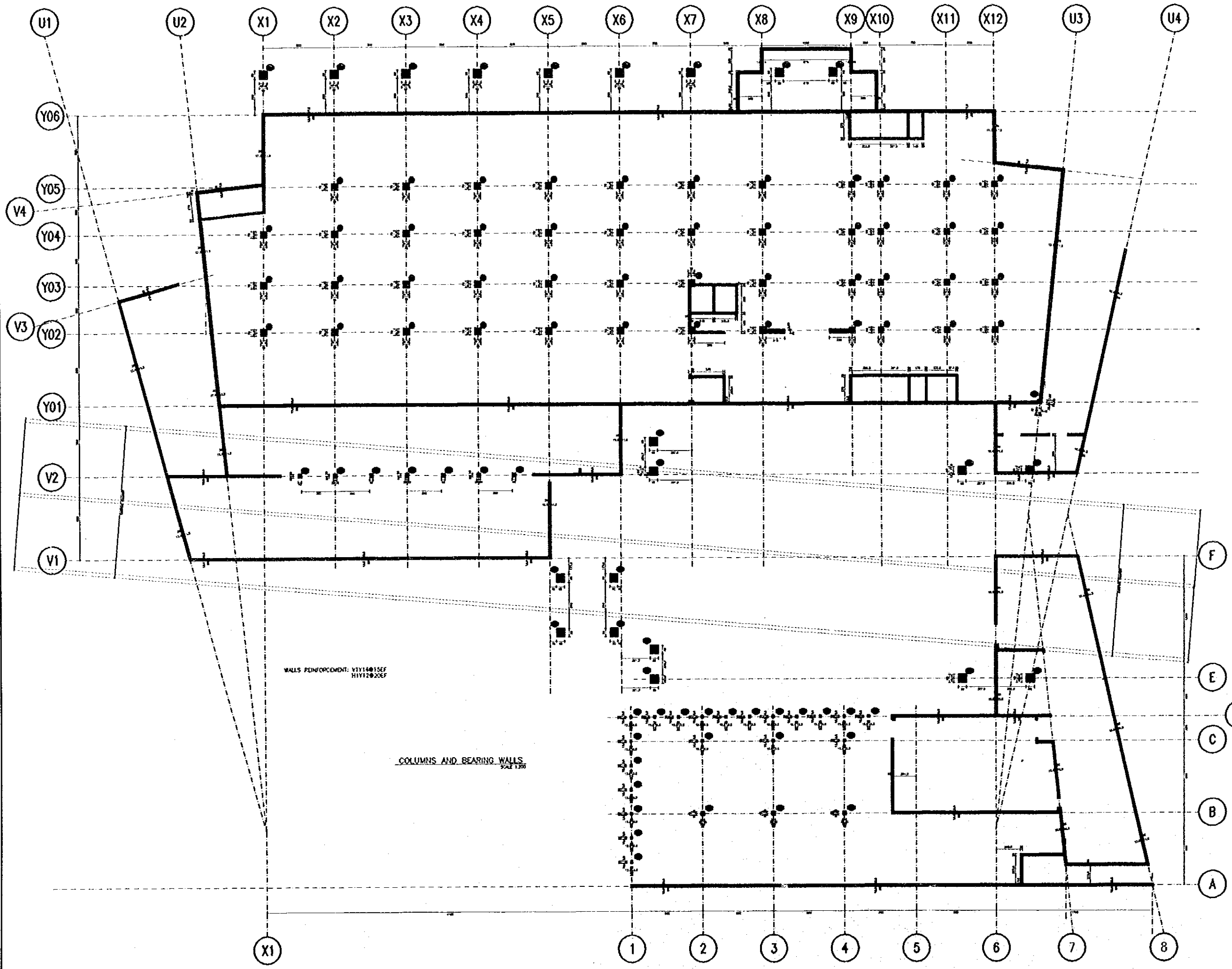
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Drawing Title:
Foundation Plan

Scale: 1:200
Drawing No.: S-101

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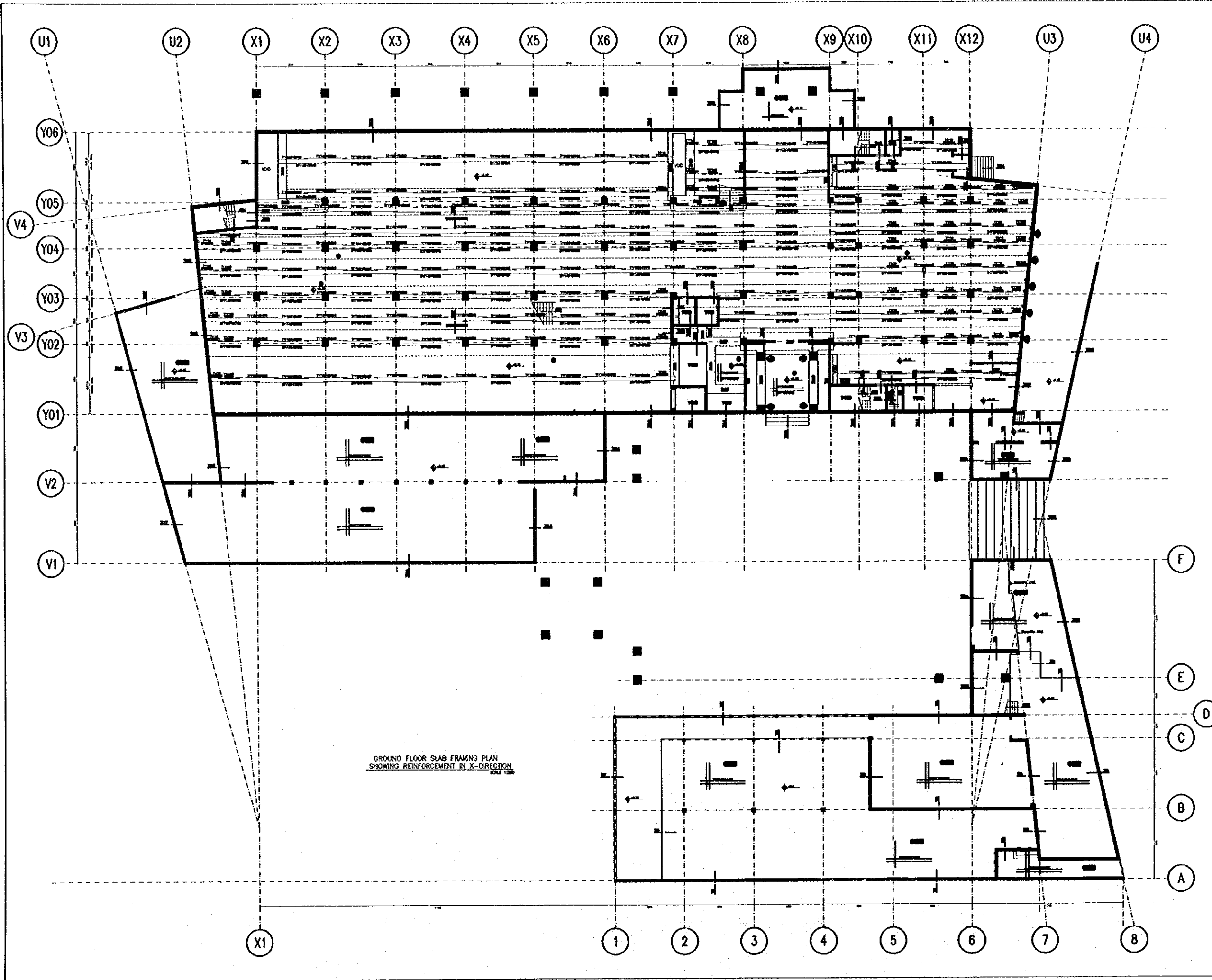
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Drawing Title:
**COLUMNS & BEARING
WALLS FRAMING PLAN**

Scale: 1:200
Drawing No.: S-102



Tourism Sector Development Project
in the Hashemite Kingdom of Jordan

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

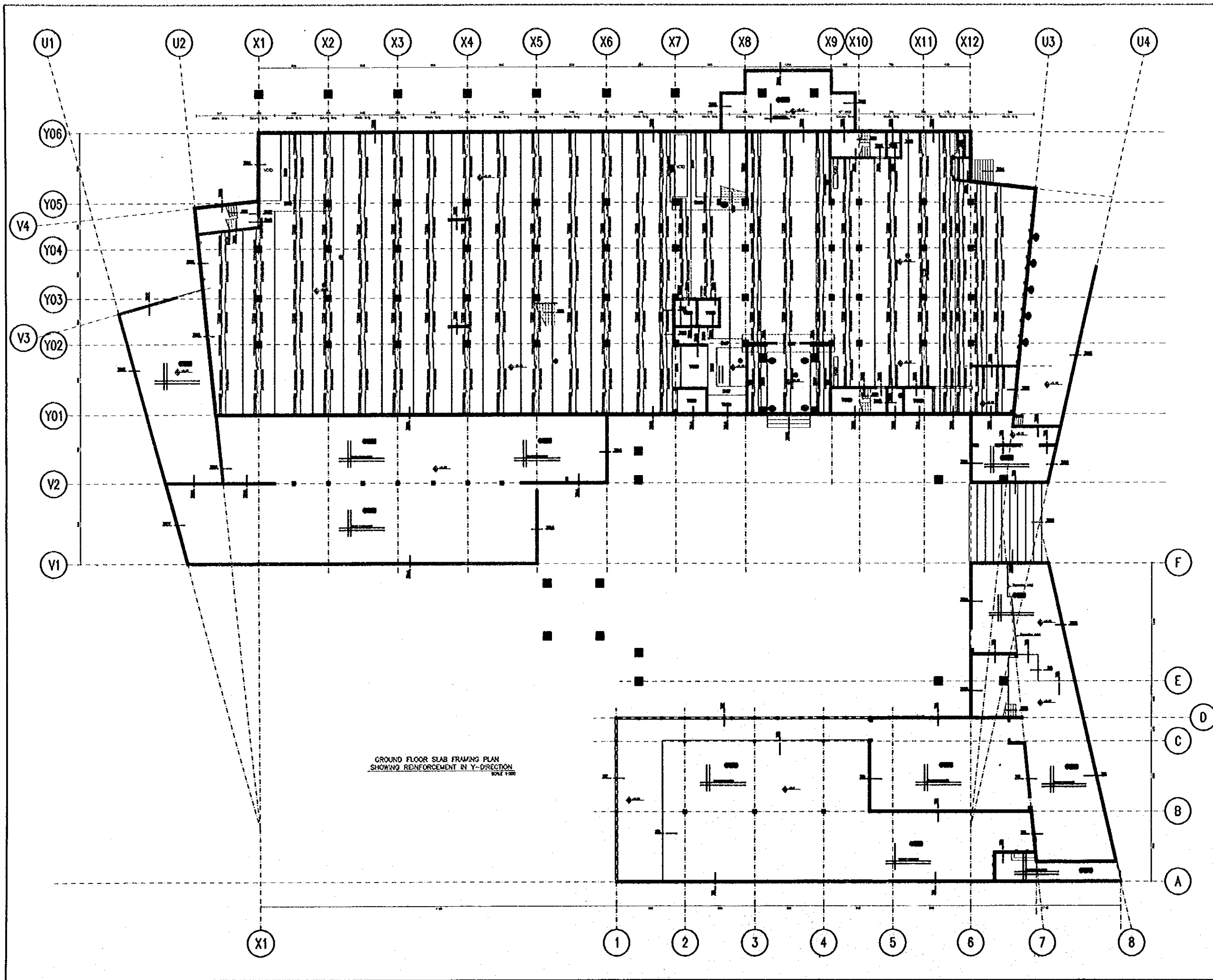
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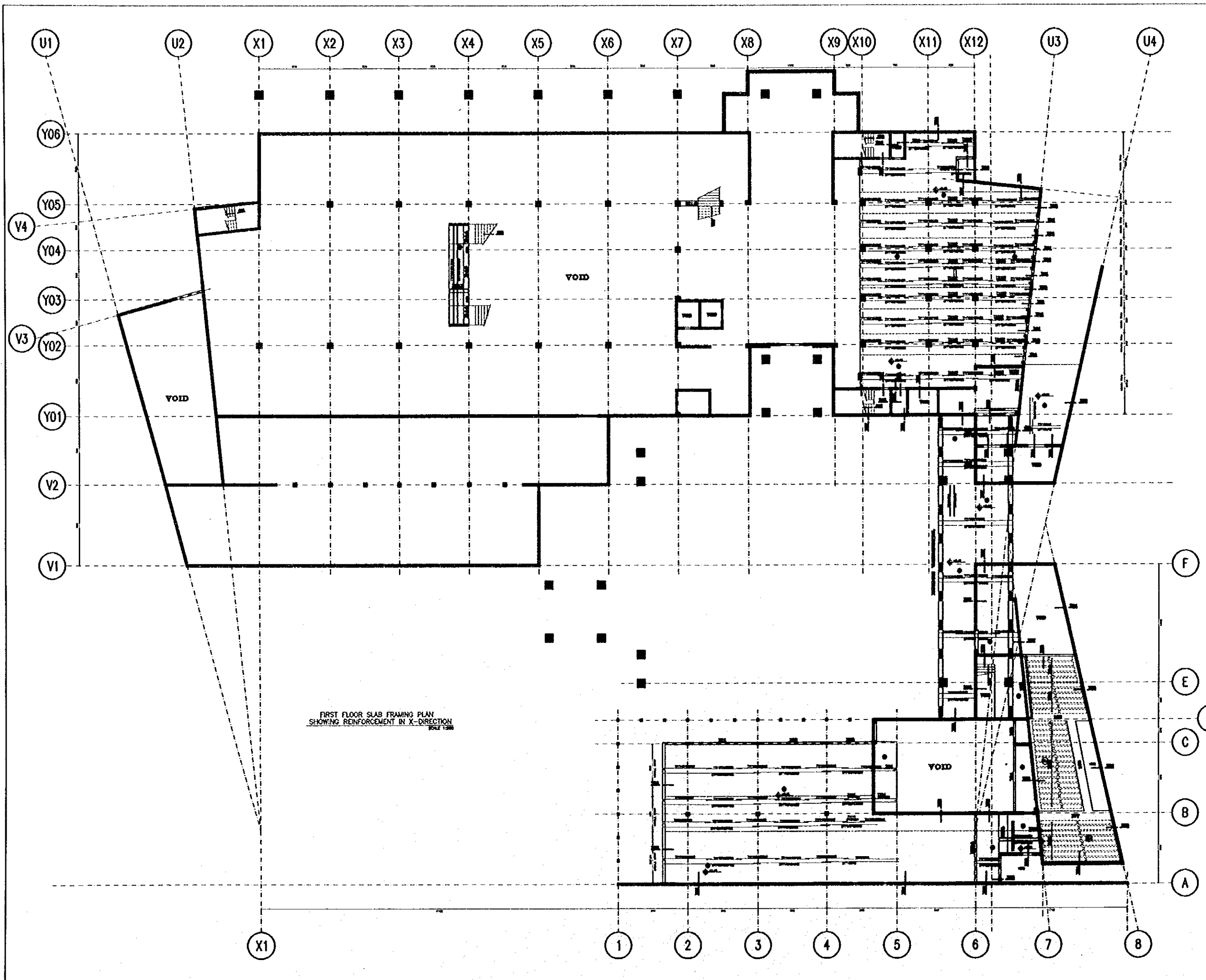
Drawing Title:
**GROUND FLOOR SLAB FRAMING PLAN
SHOWING REINFORCEMENT IN X-DIR.**

Scale: 1/200
Drawing No.: **S-103**



GROUND FLOOR SLAB FRAMING PLAN
SHOWING REINFORCEMENT IN Y-DIRECTION
SCALE 1:200

Tourism Sector Development Project in the Hashemite Kingdom of Jordan	
The Government of The Hashemite Kingdom of Jordan The Ministry of Tourism and Antiquities The Ministry of Planning	
Sub-Project: NATIONAL MUSEUM	
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Drawing Title: GROUND FLOOR SLAB FRAMING PLAN SHOWING REINFORCEMENT IN Y-DIR.	
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Drawing Title:

FIRST FLOOR SLAB FRAMING PLAN
SHOWING REINFORCEMENT IN X-DIR.

Scale:

Drawing No.:

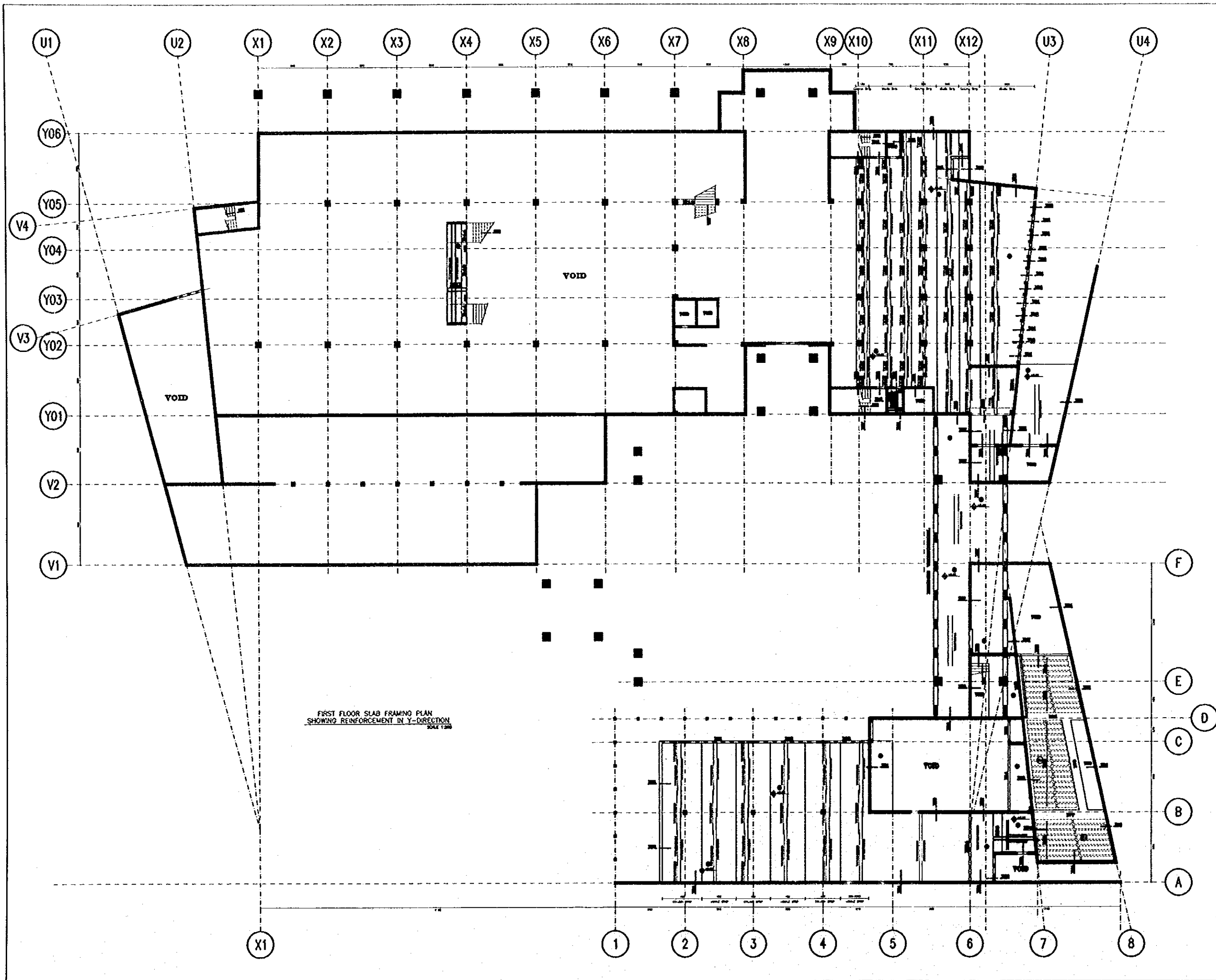
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S-105

037

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Drawing Title:
**FIRST FLOOR SLAB FRAMING PLAN
SHOWING REINFORCEMENT IN Y-DIR.**

Scale: 1:200 Drawing No.: S-106

10/1

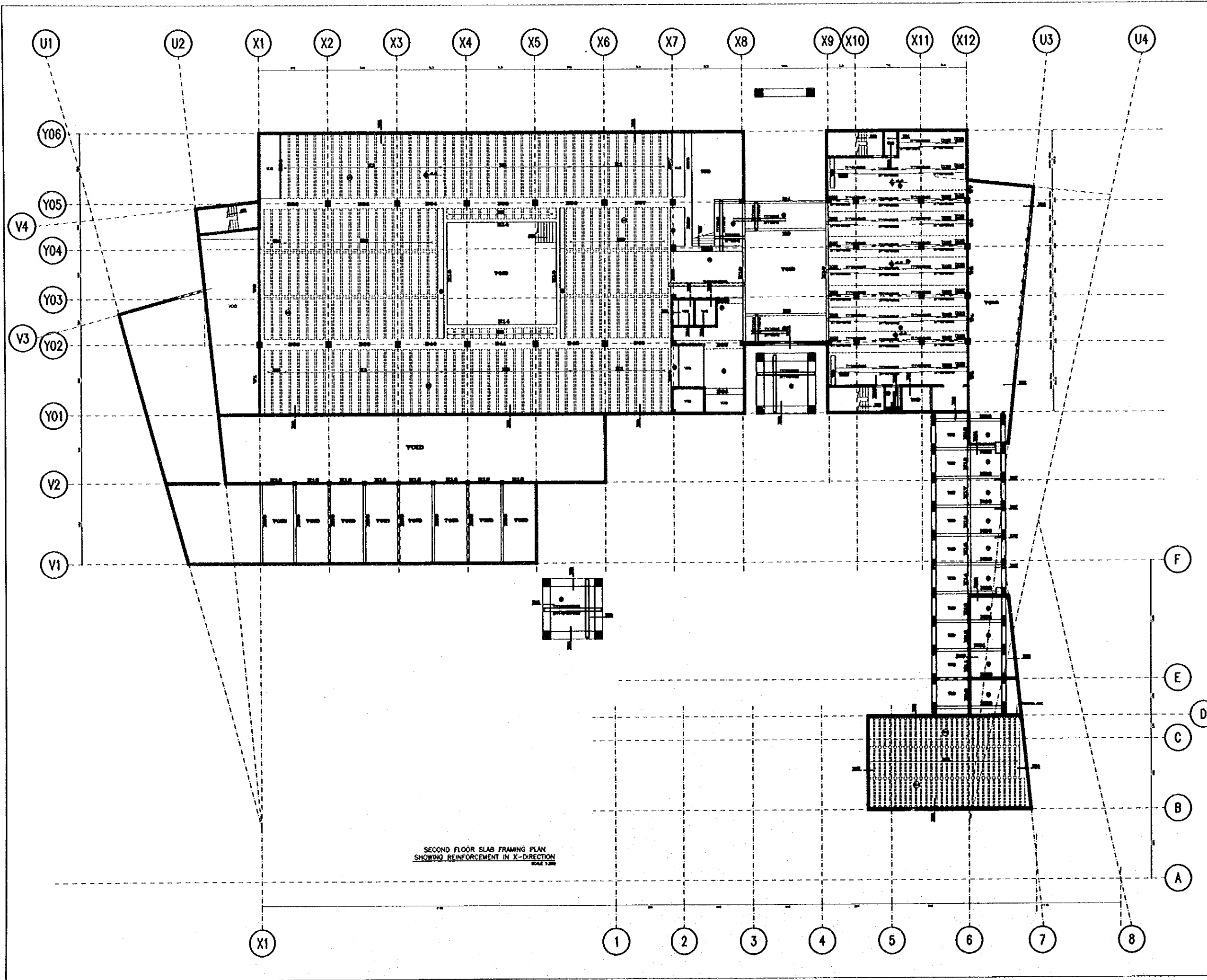
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SECOND FLOOR SLAB FRAMING PLAN
SHOWING REINFORCEMENT IN X-DIRECTION
SCALE 1/200

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Drawing Title:

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SHOWING REINFORCEMENT IN X-DIR.

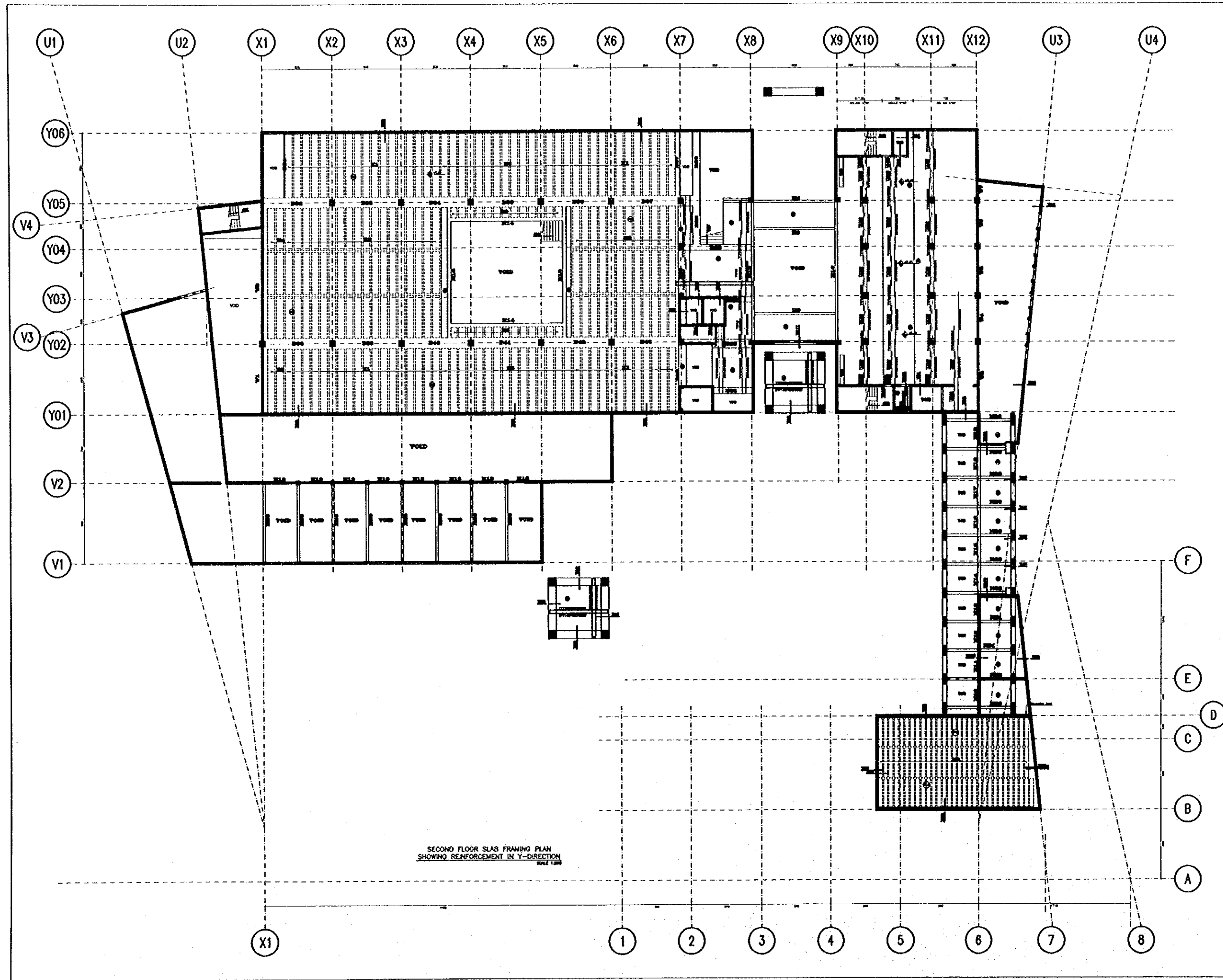
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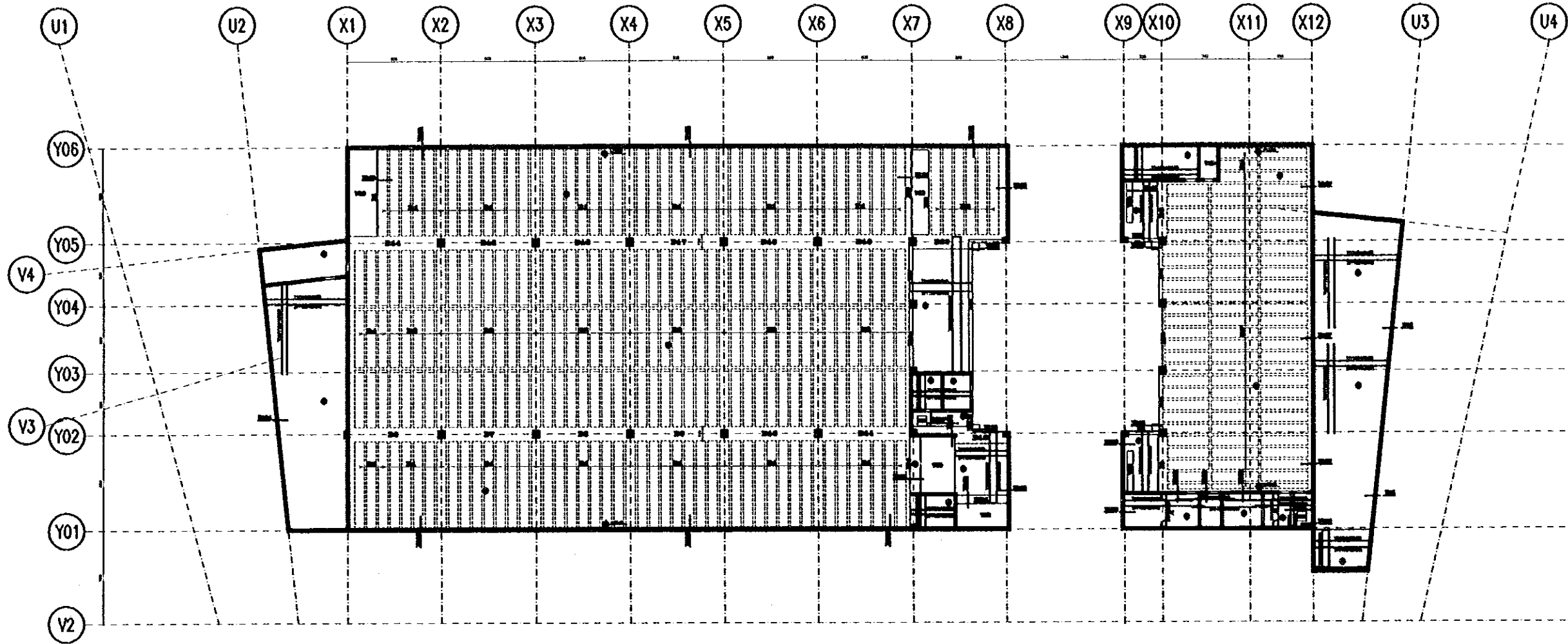


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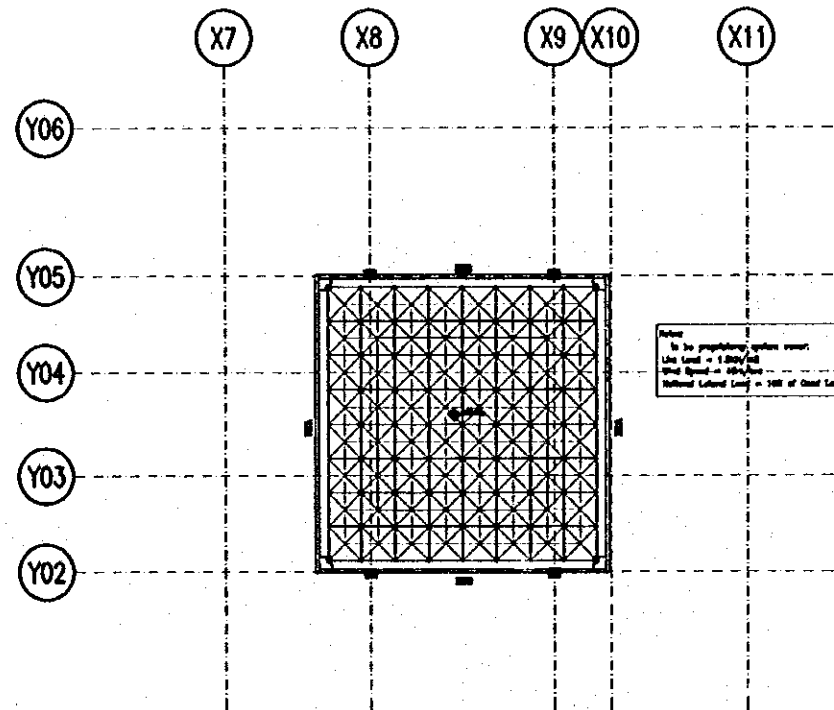
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**SECOND FLOOR SLAB FRAMING PLAN
SHOWING REINFORCEMENT IN Y-DIR.**
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ROOF SLAB FRAMING PLAN
10/1/1996



Note:
In the supplementary system system:
Live Load = 2.00k/㎡
Wind Speed = 100k/hour
Seismic Category Level = 100 of Steel Level

TOP OF ROOF SLAB FRAMING PLAN
10/1/1996

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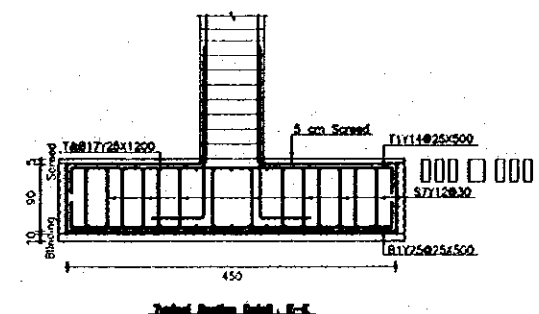
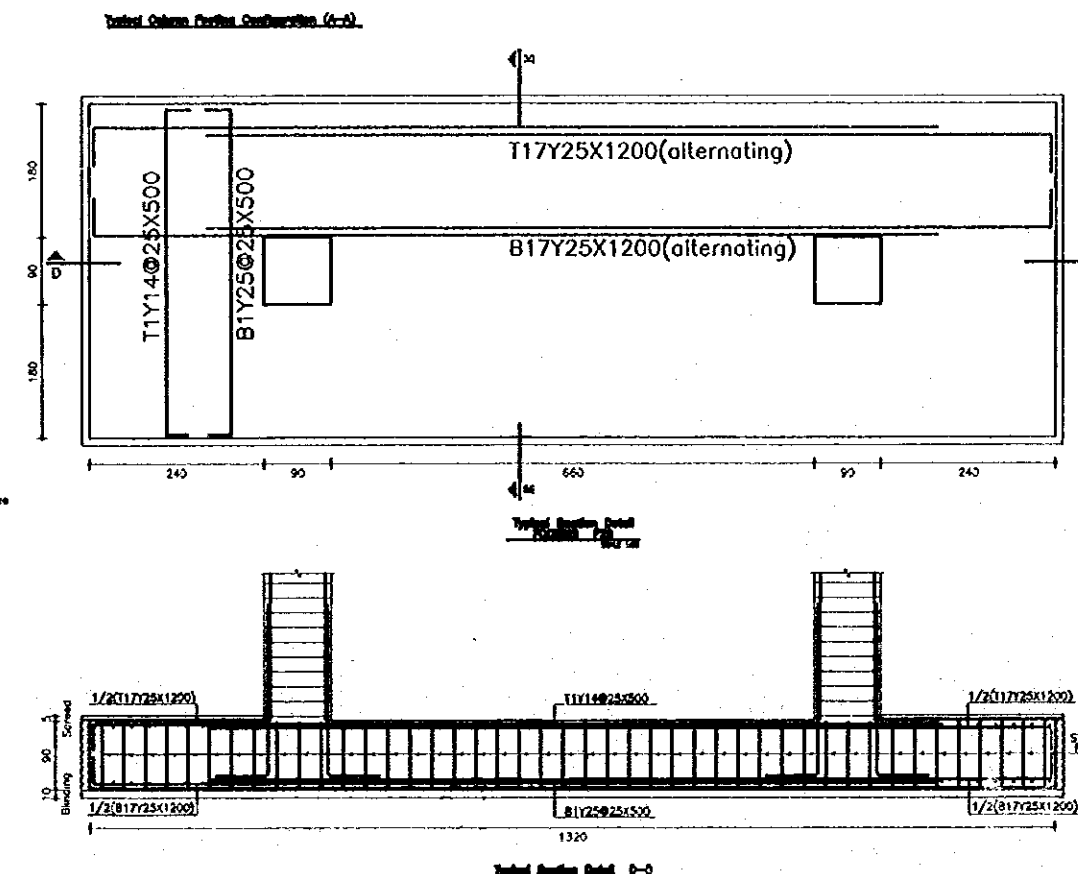
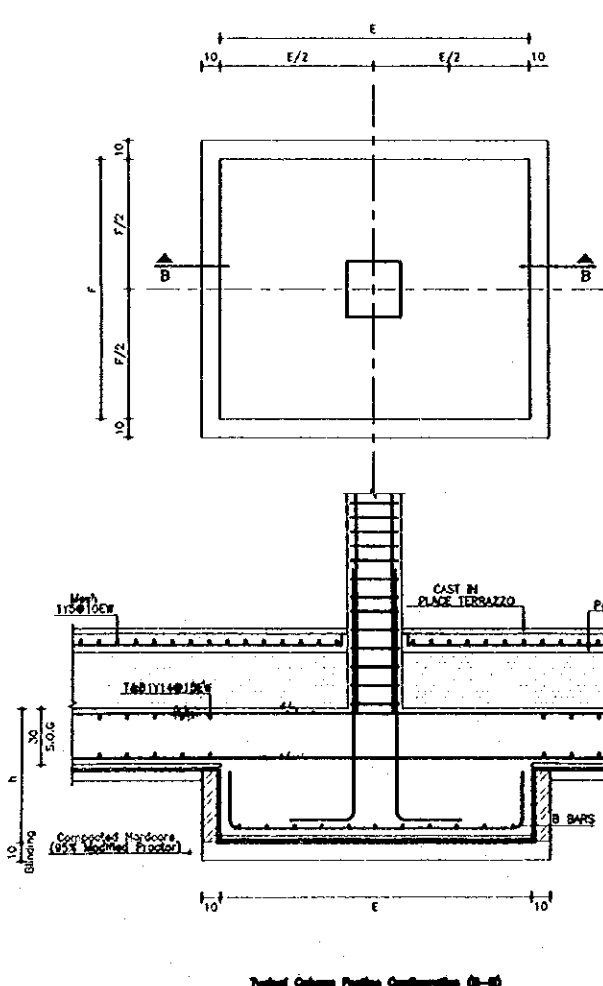
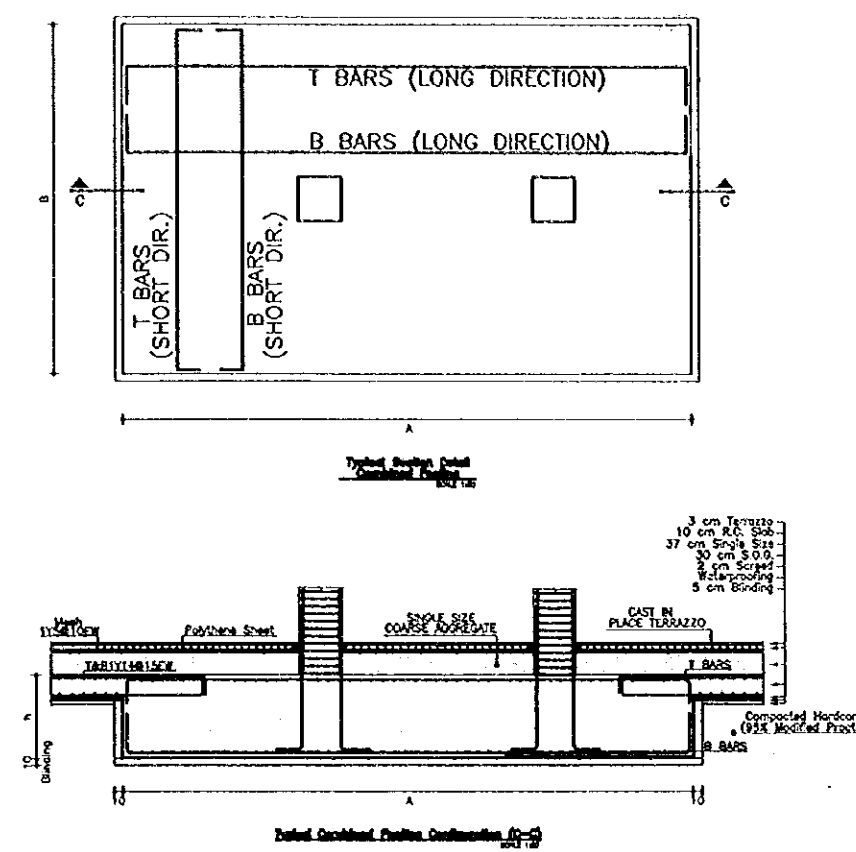
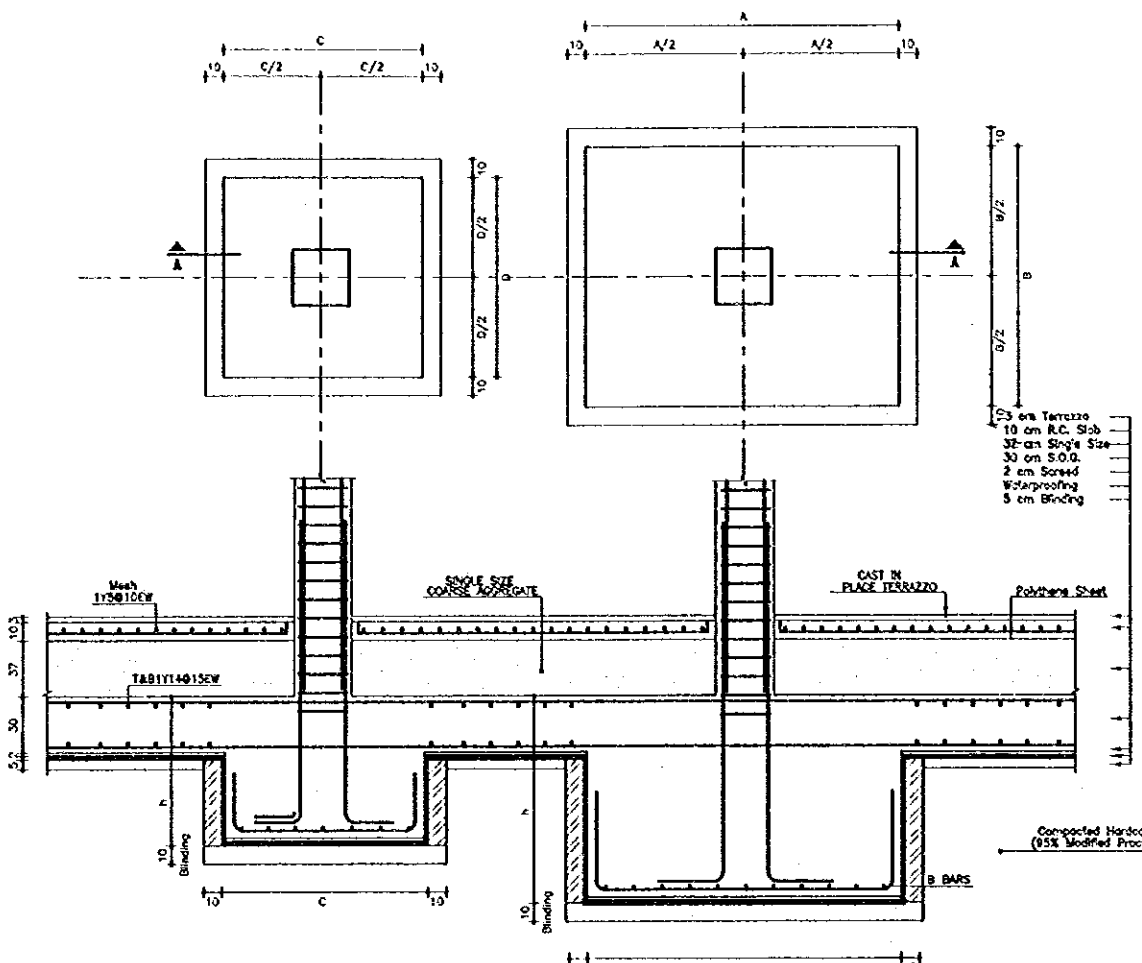
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Drawing Title:
**ROOF & TOP OF ROOF
SLABS FRAMING PLAN**

Scale: 1/200 Drawing No.: **S-109**
1/200

ISOLATED FOOTING SCHEDULE					
MARK	A (m)	B (m)	h (cm)	Reinforcement in Long-Direction	Reinforcement in Short-Direction
F1	9.20	4.75	80	T&B1Y14@15EW	T&B1Y14@15EW
F2	5.55	4.825	80	T&B1Y14@15EW	T&B1Y14@15EW
F3	9.90	4.70	80	T&B1Y14@15EW	T&B1Y14@15EW
F4	13.65	4.70	80	T&B1Y14@15EW	T&B1Y14@15EW
F5	5.35	5.35	100	B3Y20x550	B3Y20x550
F6	2.80	2.80	80	B18Y14x300	B18Y14x300
F7	5.70	5.70	110	B35Y20x800	B35Y20x800
F8	5.50	5.50	100	B35Y20x550	B35Y20x550
F9	5.40	5.40	100	B35Y20x550	B35Y20x550
F10	3.20	3.20	80	B18Y18x350	B18Y18x350
F11	5.30	5.30	100	B32Y20x550	B32Y20x550
F12	5.80	5.80	110	B36Y20x800	B36Y20x800
F13	4.40	4.40	80	B22Y20x450	B22Y20x450
F14	2.30	2.30	80	B11Y14x250	B11Y14x250
F15	3.20	3.20	80	B21Y14x350	B21Y14x350
F16	5.50	5.50	100	B34Y20x550	B34Y20x550
F17	13.30	10.10	100	T1Y16@20 B1Y20@20	T1Y16@20 B1Y20@20
F18	2.70	2.70	80	B14Y14x300	B14Y14x300
F19	8.00	8.00	110	B40Y20x800	B40Y20x800
F20	6.20	4.30	90	T2Y18@350 B3Y20x750	T2Y18@350 B3Y20x750
F21	2.40	2.40	80	B11Y14x250	B11Y14x250
F22	7.80	4.70	100	T28Y18x800 B30Y20x800	T28Y18x800 B30Y20x800
F23	3.40	3.40	80	B18Y18x350	B18Y18x350
F24	2.50	2.50	80	B12Y14x250	B12Y14x250
F25	3.80	3.80	80	B17Y20x400	B17Y20x400
F26	4.90	4.90	100	B28Y20x500	B28Y20x500
F27	4.20	4.20	90	B22Y18x450	B22Y18x450
F28	4.50	4.50	90	B22Y20x450	B22Y20x450
F29	13.20	4.50	90	T1Y16@20 B1Y20@20	T1Y16@20 B1Y20@20



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Drawing Title:

FOOTING DETAILS
F1-F29

Scale:

1:50

Drawing No.:

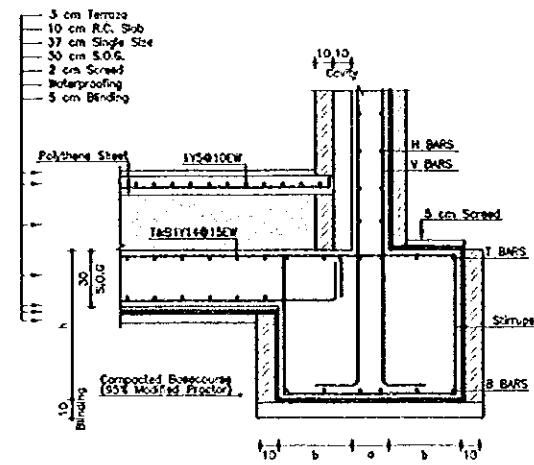
S-201

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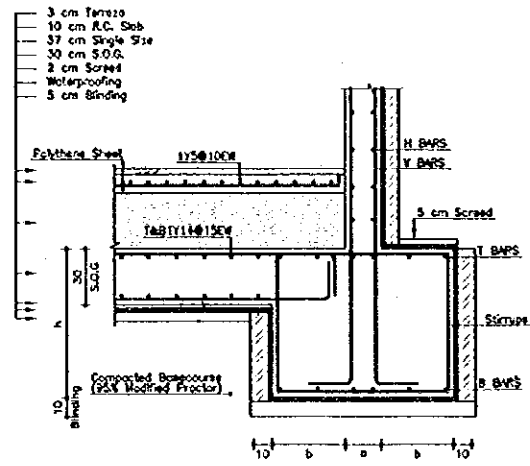
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STRIP FOOTING SCHEDULE						
MARK	a (cm)	b (cm)	h (cm)	T-BARS	B-BARS	STIRRUPS
T1	25	50	80	T6Y12	B6Y12	S1Y14@20
T2	25	35	80	T6Y10	B6Y10	S1Y12@20
T3	25	30	80	T6Y10	B6Y10	S1Y12@20
T4	30	90	80	T12Y12	B12Y12	S1Y14@15
T5	30	65	80	T8Y12	B8Y12	S1Y12@20
T6	30	50	80	T8Y12	B8Y12	S1Y12@20
T7	30	70	80	T10Y12	B10Y12	S1Y12@20
T8	30	75	80	T10Y12	B10Y12	S1Y14@20
T9	30	55	80	T8Y12	B8Y12	S1Y12@20
T10	20 or 30	75	80	T10Y12	B10Y12	S1Y14@20
T11	30	45	80	T8Y12	B8Y12	S1Y12@20

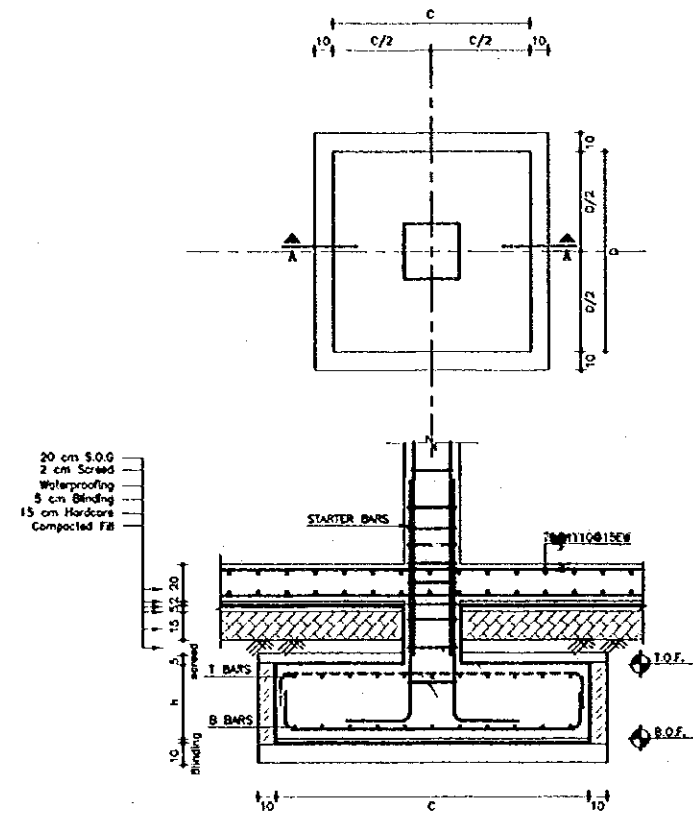
ISOLATED FOOTING SCHEDULE						
MARK	a (m)	b (m)	h (cm)	Reinforcement in Long-Direction	Reinforcement in Short-Direction	
FA1	1.00	1.00	50	B5Y14@100	B5Y14@100	
FA2	1.90	1.90	40	B10Y14@200	B10Y14@200	
FA3	2.30	2.30	50	B13Y14@250	B13Y14@250	
FA4	1.50	1.50	30	B7Y14@150	B7Y14@150	



Typical Section Detail
Strip Footing T1-T11
Scale 1:20

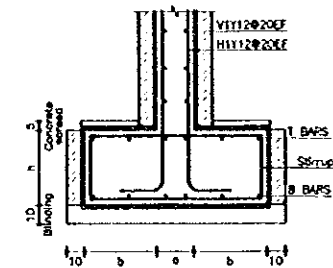


Typical Section Detail
Strip Footing T1-T11
Scale 1:20

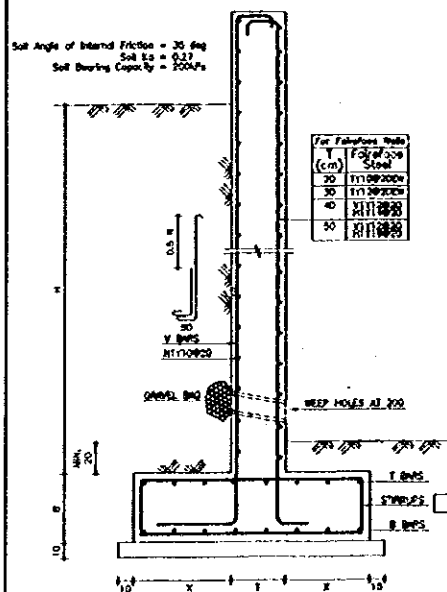


Typical Column Footing Configuration

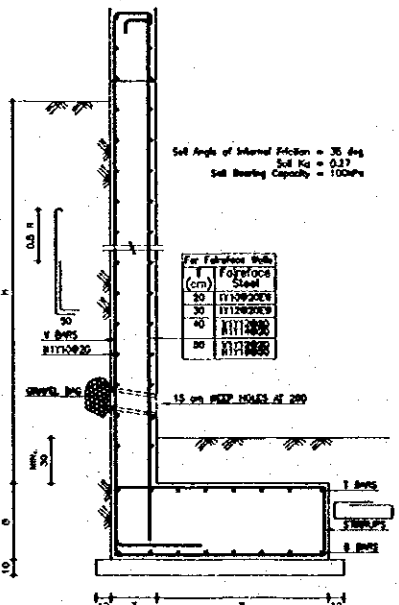
STRIP FOOTING SCHEDULE						
MARK	a (cm)	b (cm)	h (cm)	T-BARS	B-BARS	STIRRUPS
TA1	25	50	30	T6Y12	B6Y12	S1Y14@20
TA2	25	35	30	T6Y10	B6Y10	S1Y12@20
TA3	25	30	30	T6Y10	B6Y10	S1Y12@20



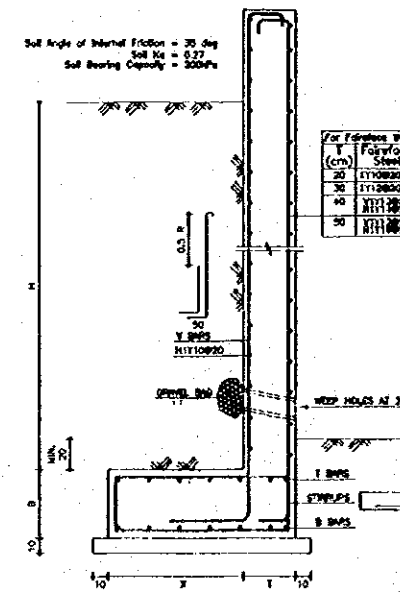
Typical Section Detail
Strip Footing TA1-TA3
Scale 1:20



RETAINING WALL DIMENSIONS & REINFORCEMENT								
H (cm)	T (cm)	B (cm)	X (cm)	V BARS	T BARS	B BARS	STIRRUPS	
140	20	30	20	T10@200	T10@200	T10@200	S1Y14@200	
160	20	30	20	T10@200	T10@200	T10@200	S1Y14@200	
180	20	30	20	T10@200	T10@200	T10@200	S1Y14@200	
200	20	30	20	T10@200	T10@200	T10@200	S1Y14@200	
220	20	30	20	T10@200	T10@200	T10@200	S1Y14@200	
240	20	30	20	T10@200	T10@200	T10@200	S1Y14@200	
260	20	30	20	T10@200	T10@200	T10@200	S1Y14@200	
280	20	30	20	T10@200	T10@200	T10@200	S1Y14@200	
300	20	30	20	T10@200	T10@200	T10@200	S1Y14@200	
320	20	30	20	T10@200	T10@200	T10@200	S1Y14@200	
340	20	30	20	T10@200	T10@200	T10@200	S1Y14@200	
360	20	30	20	T10@200	T10@200	T10@200	S1Y14@200	
380	20	30	20	T10@200	T10@200	T10@200	S1Y14@200	
400	20	30	20	T10@200	T10@200	T10@200	S1Y14@200	
420	20	30	20	T10@200	T10@200	T10@200	S1Y14@200	
440	20	30	20	T10@200	T10@200	T10@200	S1Y14@200	
460	20	30	20	T10@200	T10@200	T10@200	S1Y14@200	
480	20	30	20	T10@200	T10@200	T10@200	S1Y14@200	
500	20	30	20	T10@200	T10@200	T10@200	S1Y14@200	
520	20	30	20	T10@200	T10@200	T10@200	S1Y14@200	
540	20	30	20	T10@200	T10@200	T10@200	S1Y14@200	



BOUNDARY WALL DIMENSIONS & REINFORCEMENT								
H (cm)	T (cm)	B (cm)	X (cm)	V BARS	T BARS	B BARS	STIRRUPS	
140	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
160	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
180	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
200	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
220	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
240	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
260	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
280	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
300	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
320	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
340	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
360	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
380	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
400	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
420	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
440	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
460	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
480	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
500	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
520	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
540	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	



RETAINING WALL DIMENSIONS & REINFORCEMENT								
H (cm)	T (cm)	B (cm)	X (cm)	V BARS	T BARS	B BARS	STIRRUPS	
120	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
140	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
160	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
180	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
200	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
220	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
240	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
260	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
280	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
300	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
320	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
340	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
360	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
380	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
400	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
420	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
440	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
460	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
480	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
500	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
520	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	
540	20	30	80	T10@200	T10@200	T10@200	S1Y14@200	

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Jafar Tukan and Partners
Architects and Engineers

Drawing Title:

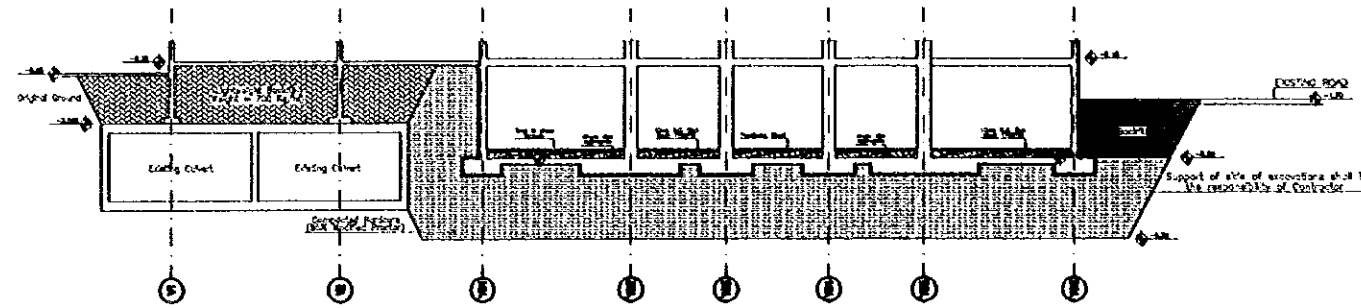
FOOTING DETAILS
T1-T11, FA1-FA4 & TA1-TA3

Scale: 1:20

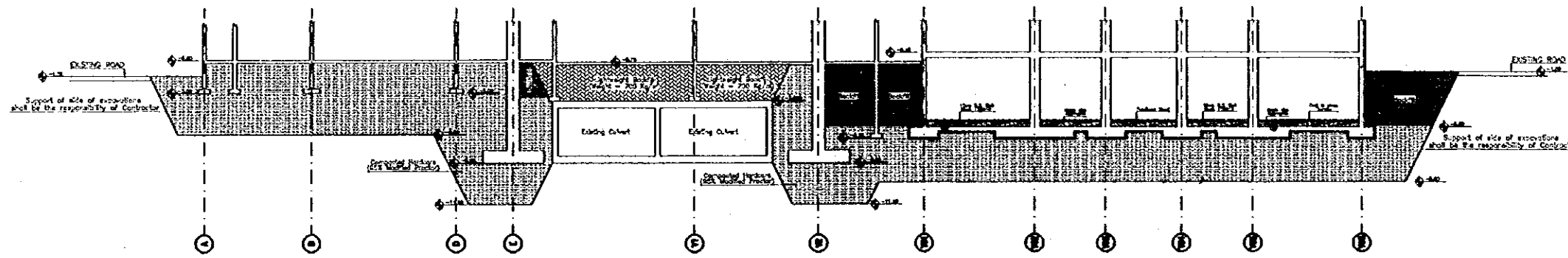
Drawing No: S-202

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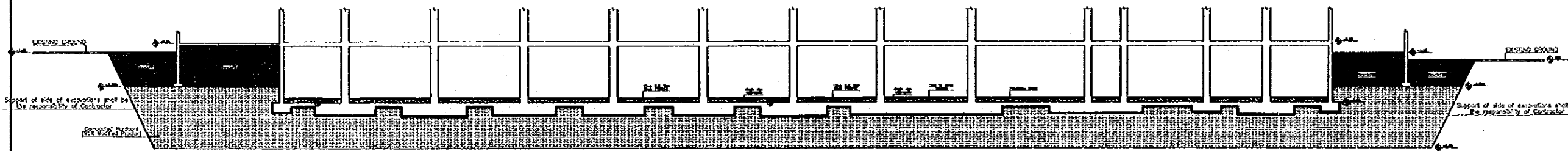
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Typical Section Detail A-A
SCALE 1:200



Typical Section Detail B-B
SCALE 1:200



Typical Section Detail C-C
SCALE 1:200



Typical Section Detail D-D
SCALE 1:200

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JICA Study Team:
Joint Venture of
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Subcontracted Local Consultant:
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Architects and Engineers

Drawing Title:
**FOUNDATION DETAILS
A-A, B-B, C-C & D-D**

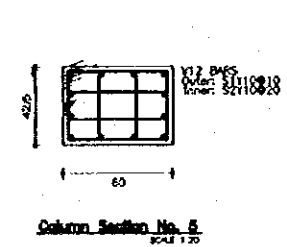
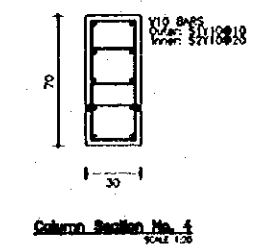
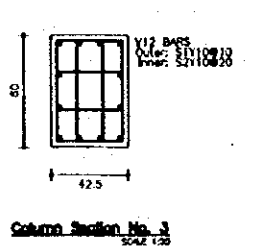
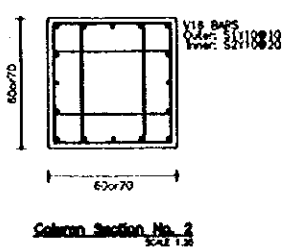
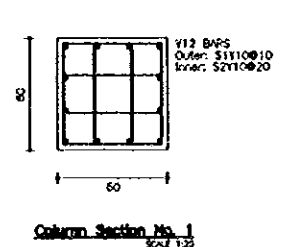
Scale: 1:200 Drawing No.: **S-203**

107

Sub Project:
Historic Old Salt Development

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Storey	Sec.No.	Reinforcement	Storey	Sec.No.	Reinforcement	Storey	Sec.No.	Reinforcement	Storey	Sec.No.	Reinforcement	Storey	Sec.No.	Reinforcement	Storey	Sec.No.	Reinforcement
ROOF			ROOF			ROOF			ROOF			ROOF			ROOF		
2ND	1	V12Y18X700	2ND	1	V12Y18X700	2ND	3	V12Y18X700	2ND	1	V12Y18X700	2ND	5	V12Y18X700	2ND	1	V12Y18X700
1ST	1	V12Y18X650	1ST	1	V12Y18X650	1ST	1	V12Y18X650	1ST	1	V12Y18X650	1ST	5	V12Y18X650	1ST	1	V12Y18X650
GROUND	1	V12Y18X600	GROUND	1	V12Y18X600	GROUND	1	V12Y18X600	GROUND	4	V10Y18X450	GROUND	5	V12Y18X650	GROUND	1	V12Y18X650
BASMENT	2	V16Y18X600	BASMENT	2	V16Y18X600	BASMENT	2	V16Y18X600	BASMENT	2	V16Y18X600	BASMENT	2	V16Y18X600	BASMENT	1	V12Y18X600
FOOTING			FOOTING			FOOTING			FOOTING			FOOTING			FOOTING		
		COLUMN C1			COLUMN C2			COLUMN C3			COLUMN C4			COLUMN C5			COLUMN C8



Designed by:
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JICA Study Team:
Joint Venture of
Pacific Consultants International and
Yamashita Sekkel Inc.
Subcontracted Local Consultant:
Jafar Tukon and Partners
Architects and Engineers

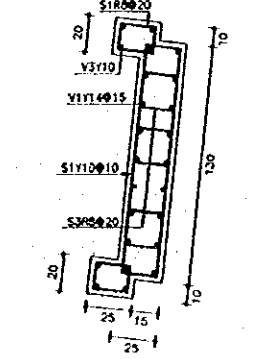
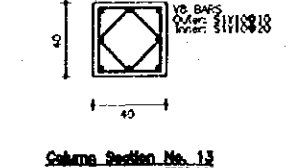
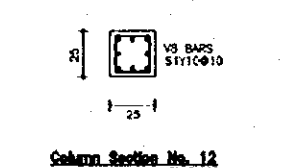
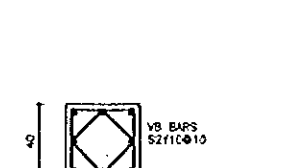
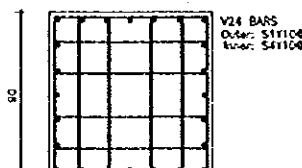
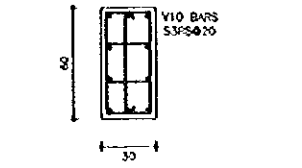
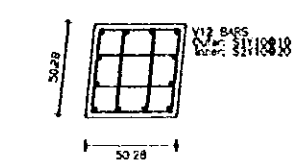
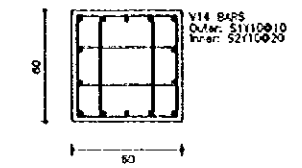
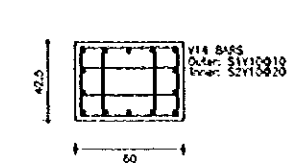
Tourist Trails
Drawing Title:
**COLUMN DETAILS
C1-C8**

Scale: 1:100-23 Drawing No.: **S-204**

86

Storey	Sec.No.	Reinforcement	Storey	Sec.No.	Reinforcement	Storey	Sec.No.	Reinforcement	Storey	Sec.No.	Reinforcement	Storey	Sec.No.	Reinforcement	
ROOF			ROOF			ROOF			ROOF			ROOF			
2ND			2ND	6	V14F22750	2ND	5	V12G25750	2ND			2ND			
1ST	1	V12T18X450	1ST	6	V14F22750	1ST	5	V12G25750	1ST			1ST	14	V18T14X450	
GROUND	1	V12T18X450	GROUND	6	V14F22750	GROUND	5	V12G25750	GROUND	8	V12T14X450	GROUND	9	V10T16X450	
BASEMENT	1	V12T25X600	BASEMENT	7	V7C2X950 V7D25X600 V7E25X600	BASEMENT	1	V5C2X950 V5D25X600 V5E25X600	BASEMENT	8	V12T14X600	BASEMENT			
FOOTING			FOOTING			FOOTING			FOOTING			FOOTING			
		COLUMN C9			COLUMN C10			COLUMN C11				COLUMN C12			COLUMN C19

Storey	Sec.No.	Reinforcement	Storey	Sec.No.	Reinforcement	Storey	Sec.No.	Reinforcement	Storey	Sec.No.	Reinforcement
ROOF			ROOF			ROOF			ROOF		
2ND			2ND			2ND			2ND		
1ST			1ST			1ST			1ST		
BASEMENT	10	V24T14X450	GROUND	11	V8T16X450	BASEMENT	12	V8T14X450	BASEMENT	13	V8T16X450
FOOTING			FOOTING			FOOTING			FOOTING		
		COLUMN C14			COLUMN C15			COLUMN C16			COLUMN C17



Tourism Sector Development Project
In the Hashemite Kingdom of Jordan

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

Sub Project:
Historic Old Salt Development

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Architects and Engineers

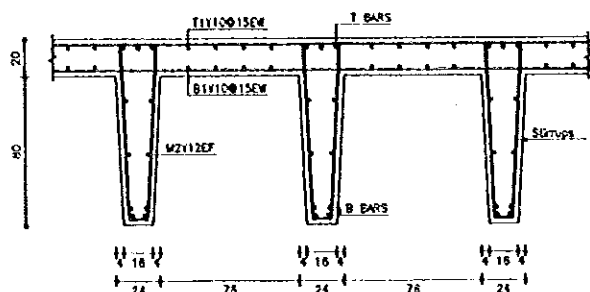
Tourist Trails

Drawing Title:
**COLUMN DETAILS
C9-C17 & C19**

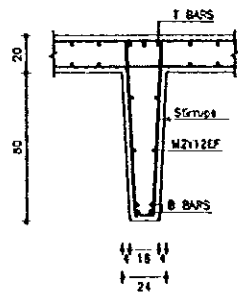
Scale: 1:10020
Drawing No.: S-205

601

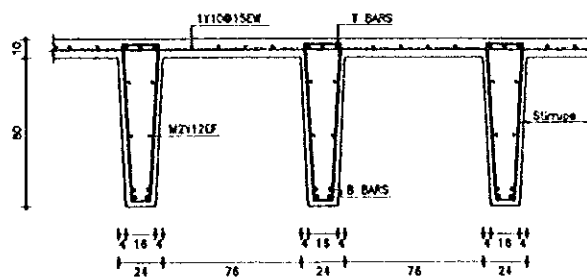
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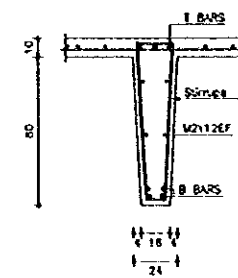
Typical Section Detail
Reinforced Floor Slab - Series J & K



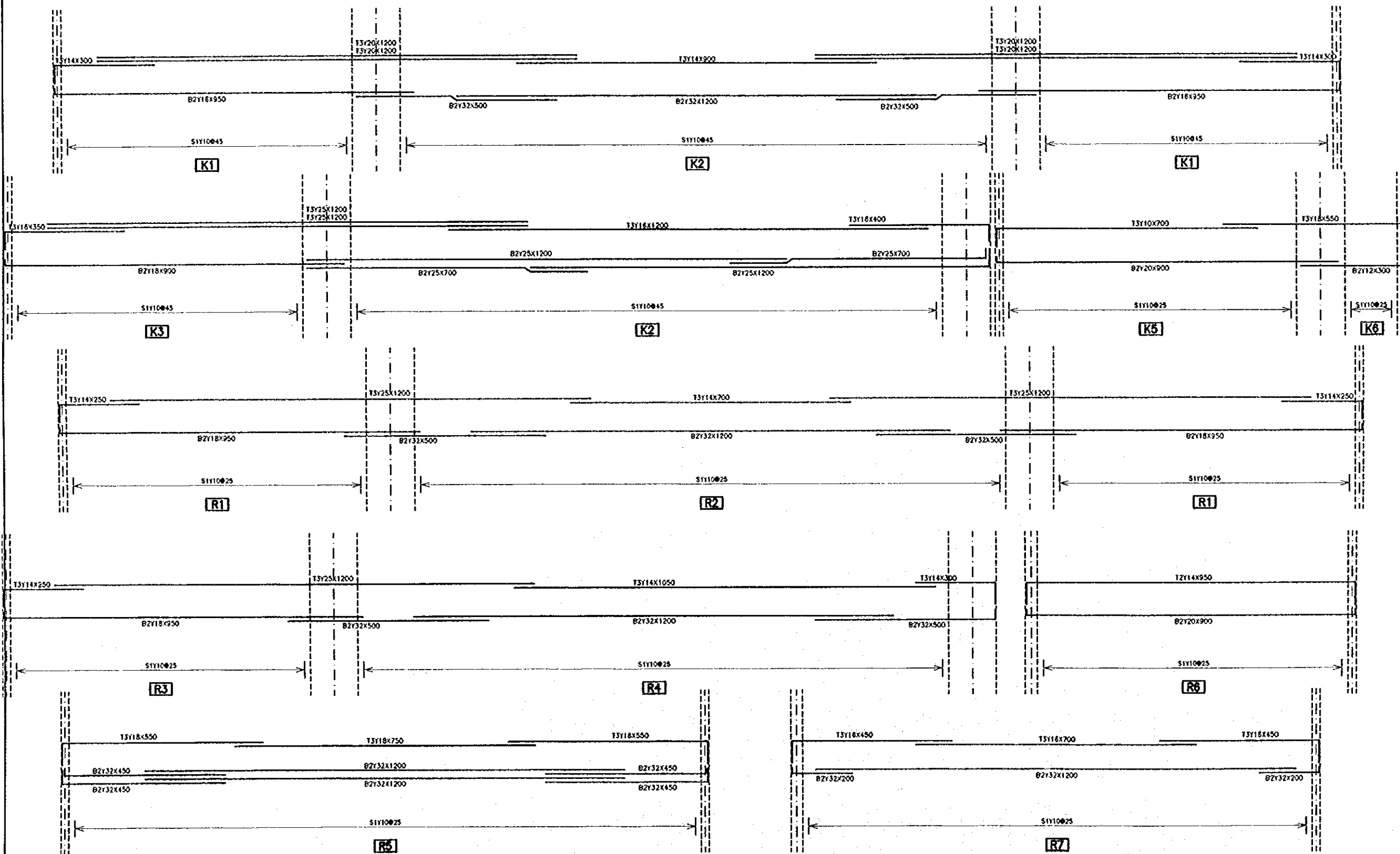
Typical Section Detail
Reinforced Floor Slab - Series J & K



Typical Section Detail
Reinforced Floor Slab - Series R



Typical Section Detail
Reinforced Floor Slab - Series R

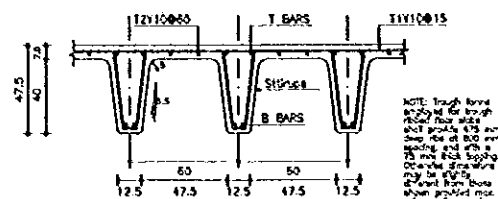


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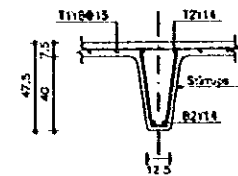
Drawing Title:
**JOIST DETAILS
K1-K6 & R1-R7**

Scale: 1:500 Drawing No.: **S-301**

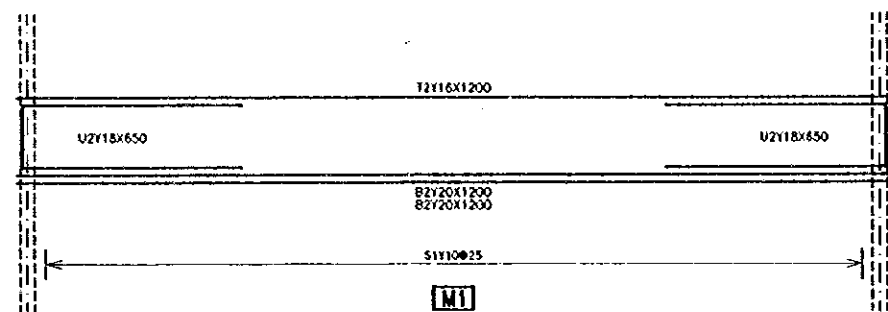
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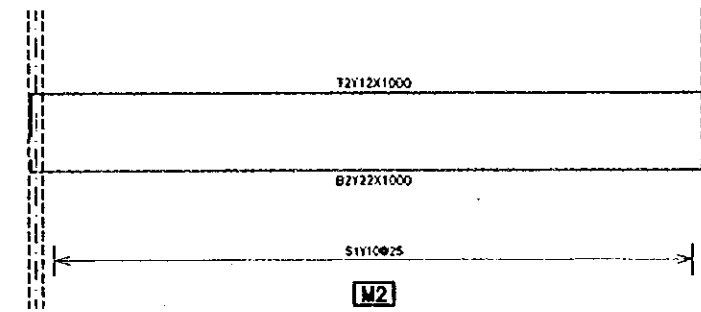
Typical Section Detail
Trench Joint Floor Slab
SCALE 1:20



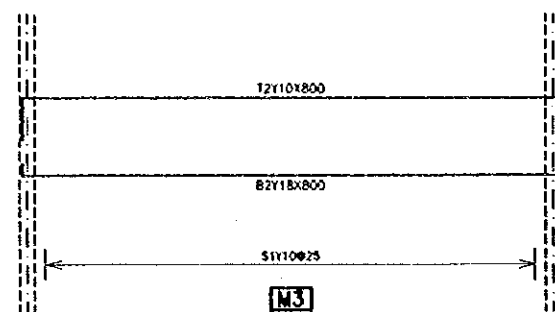
Trench Section Detail
Cross Ribbed Floor Slab - Series M
SCALE 1:20



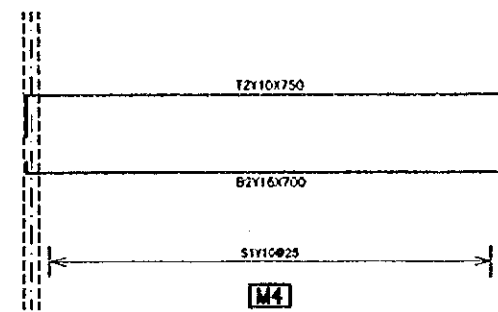
M1



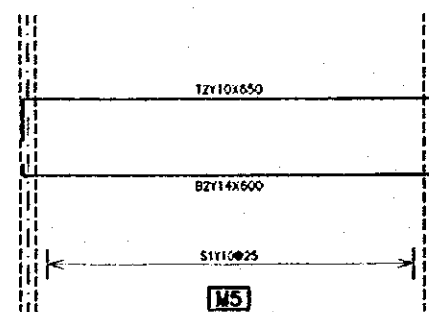
M2



M3



M4



M5

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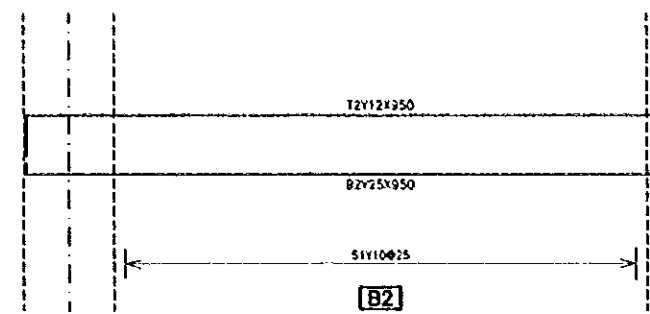
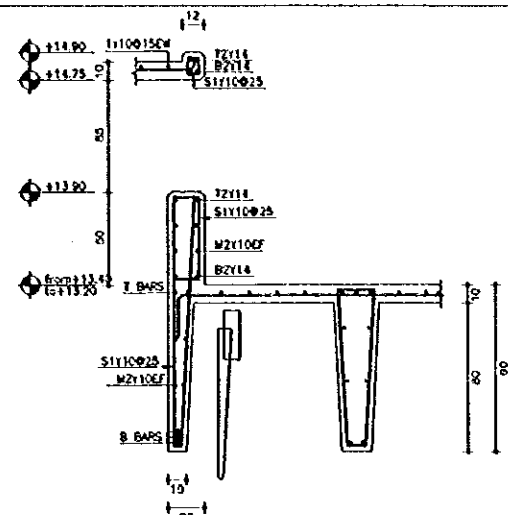
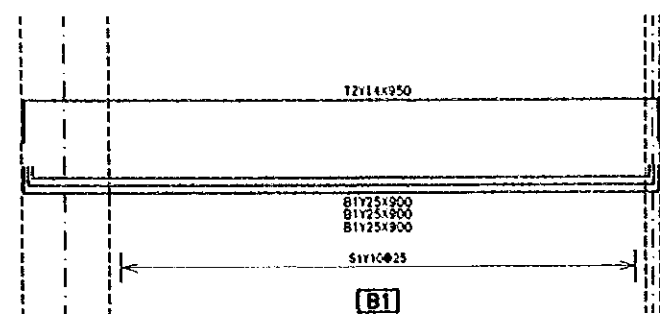
Drawing Title:

JOIST DETAILS
M1-M5

Scale:
1:50/20

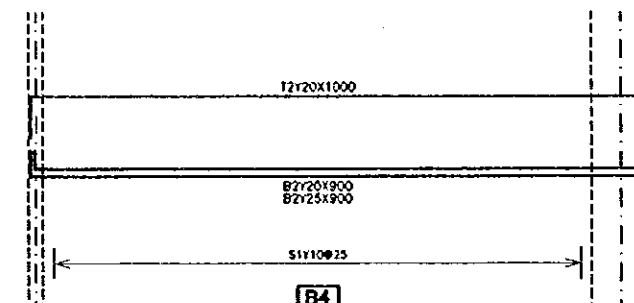
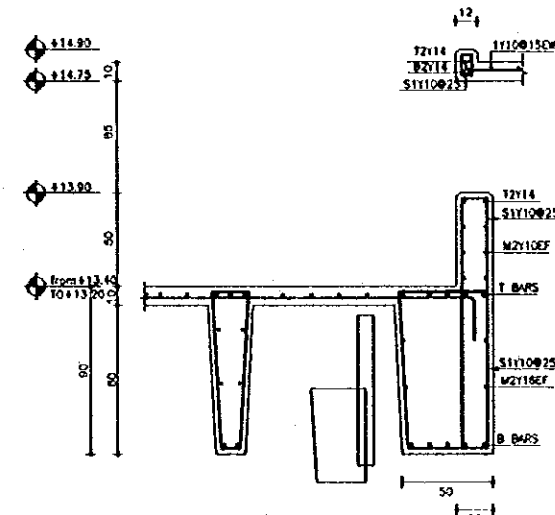
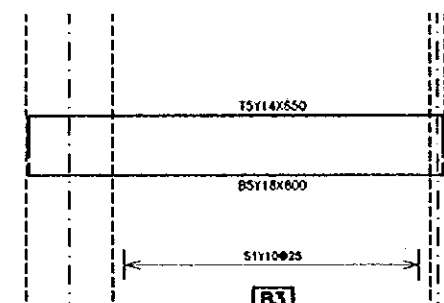
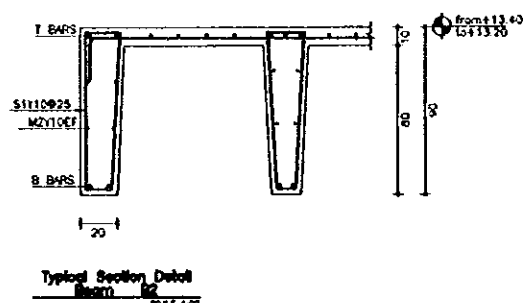
Drawing No.:
S-302

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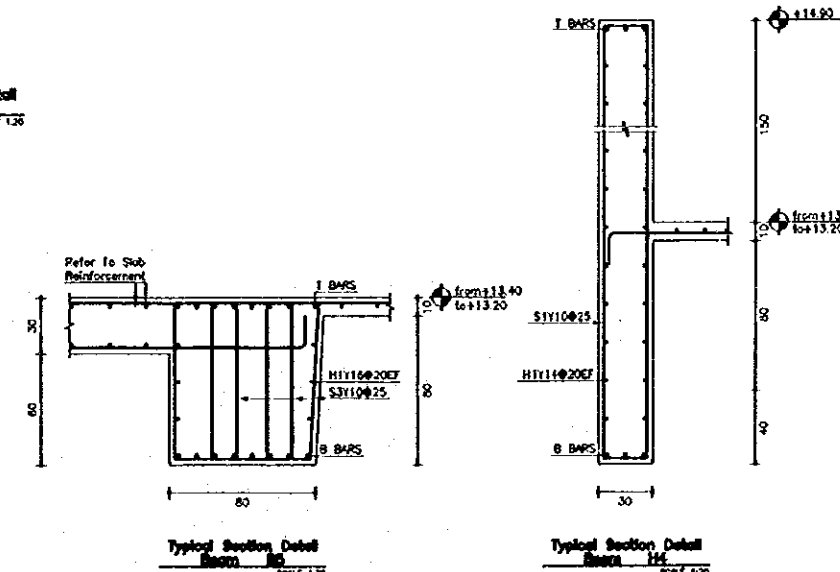
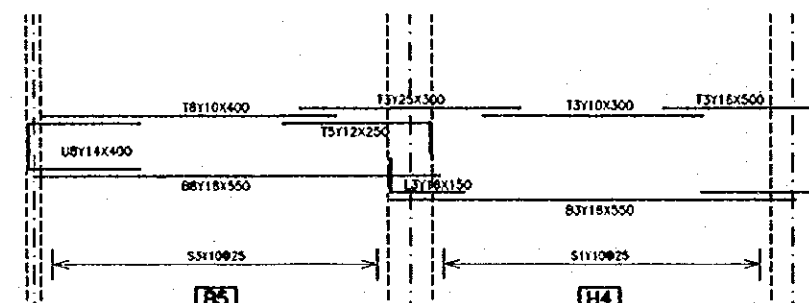
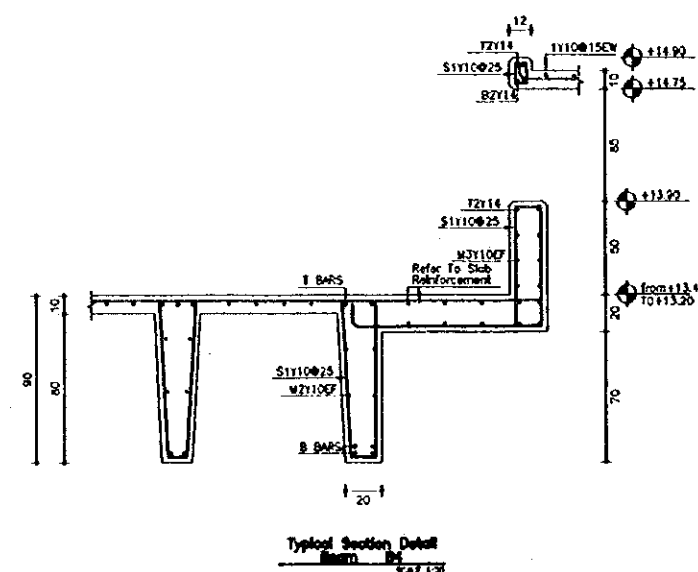
Typical Section Detail
Beam B1
SCALE 1/20

Typical Section Detail
Beam B2
SCALE 1/20



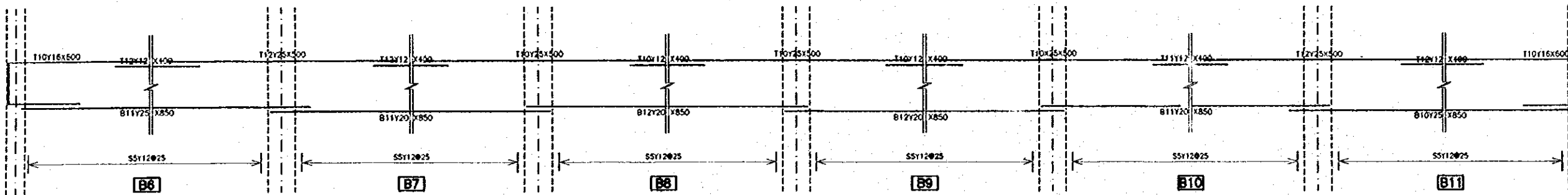
Typical Section Detail
Beam B3
SCALE 1/20

Typical Section Detail
Beam B4
SCALE 1/20



Typical Section Detail
Beam B5
SCALE 1/20

Typical Section Detail
Beam H4
SCALE 1/20



B6

B7

B8

B9

B10

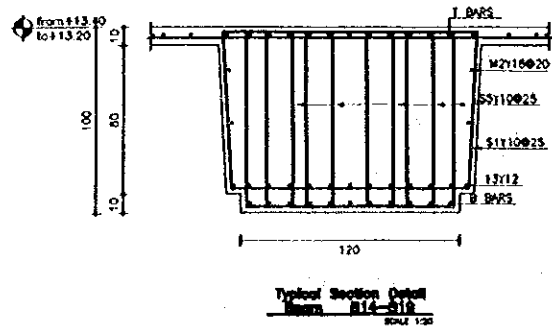
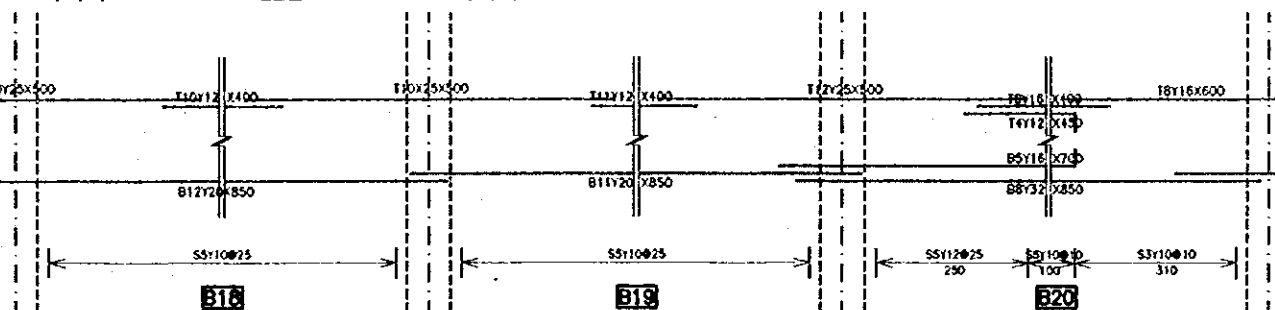
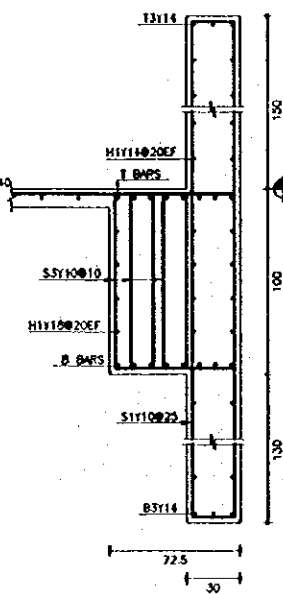
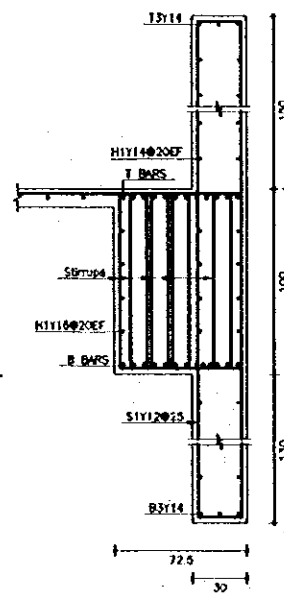
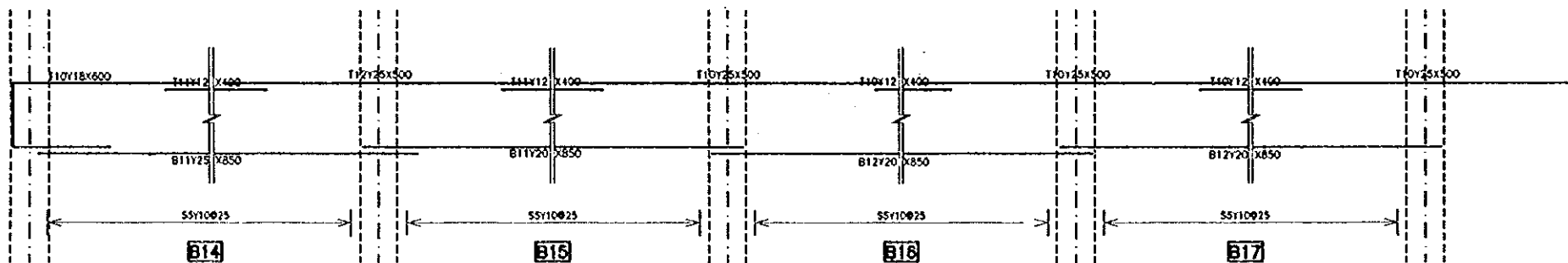
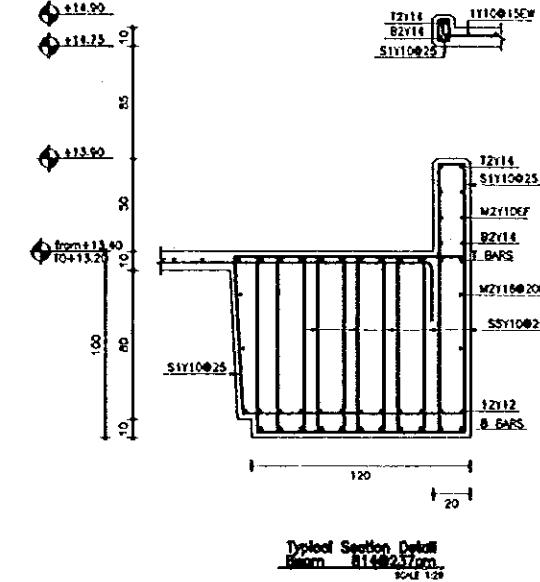
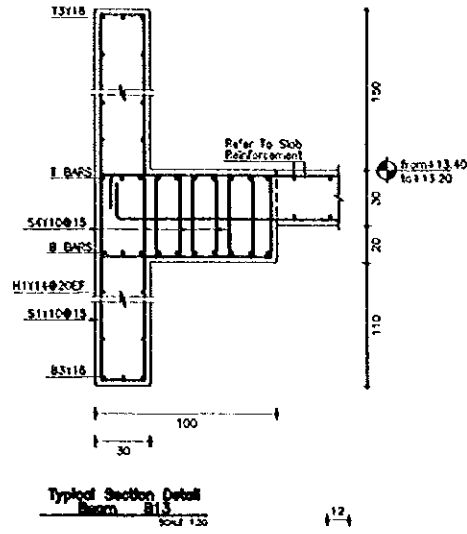
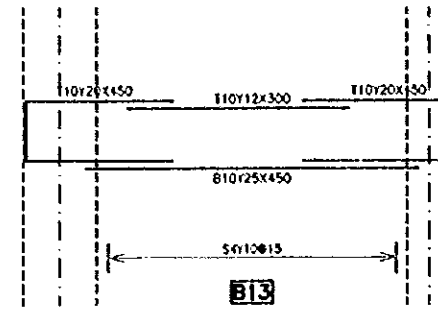
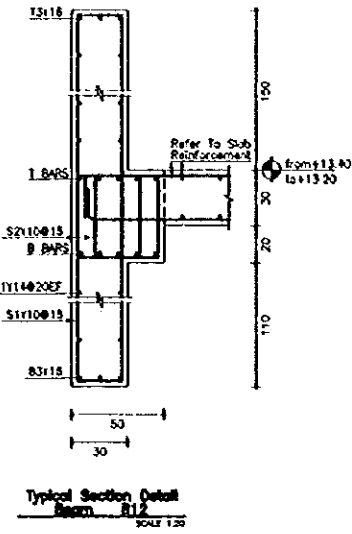
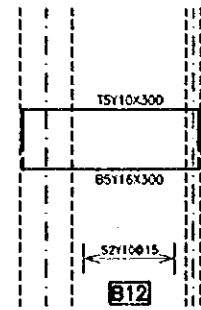
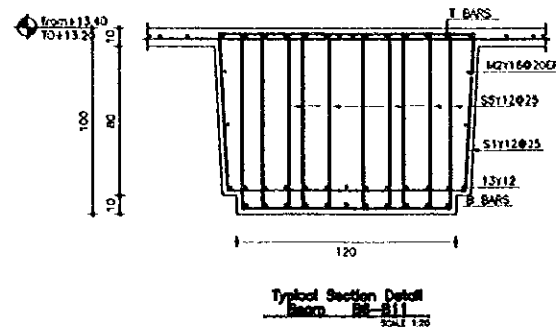
B11

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JICA Study Team:
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Subcontracted Local Consultant:
Jafar Tukan and Partners
Architects and Engineers

Drawing Title:
**BEAM DETAILS
B1-B11 & H4**

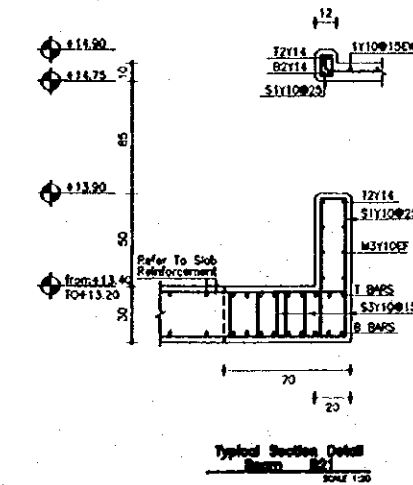
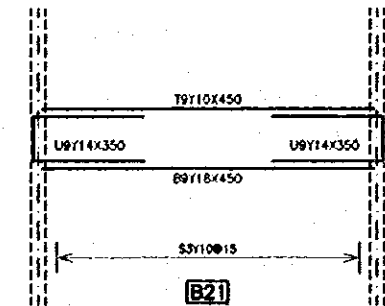
Scale: 1:50.20 Drawing No.: S-303

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Typical Section Detail
Beam B14-B17
SCALE 1:20

Typical Section Detail
Beam B18-B19
SCALE 1:20



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JICA Study Team:
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Subcontracted Local Consultant:
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Drawing Title:
**BEAM DETAILS
B0-B21**

206

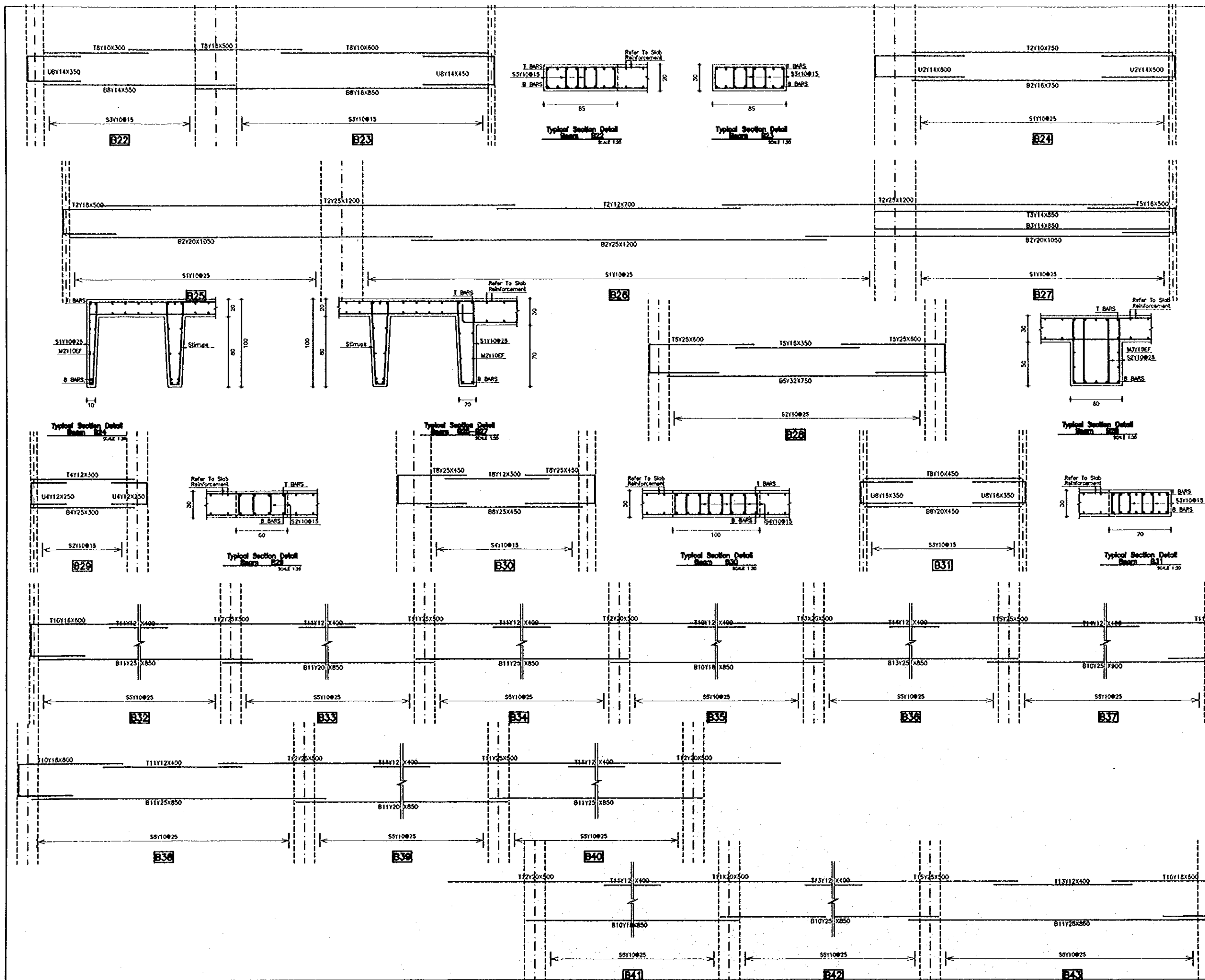
Sub-Project:

NATIONAL MUSEUM

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Drawing Title:

BEAM DETAILS
B22-B43

Scale:
1:30

Drawing No.:
S-305

204

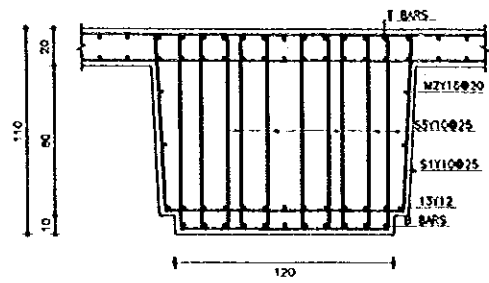
Sub-Project:

NATIONAL MUSEUM

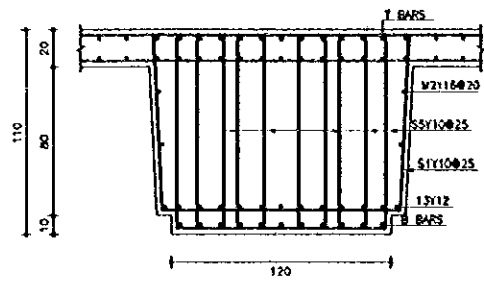
Note:

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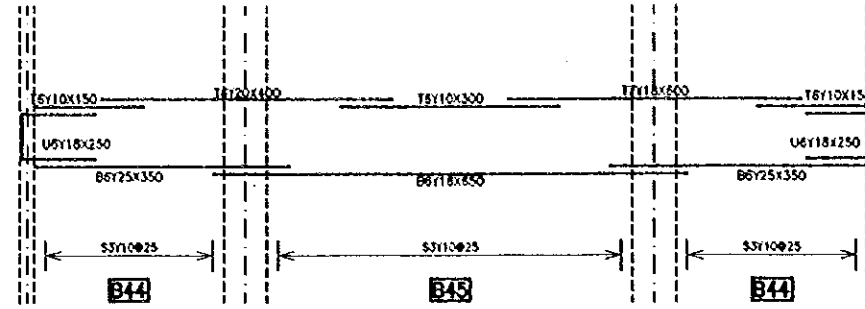
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Typical Section Detail
Beam B32-B37
SCALE 1:20



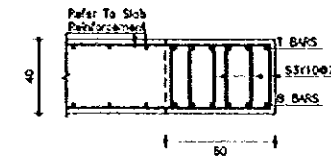
Typical Section Detail
Beam B38-B43
SCALE 1:20



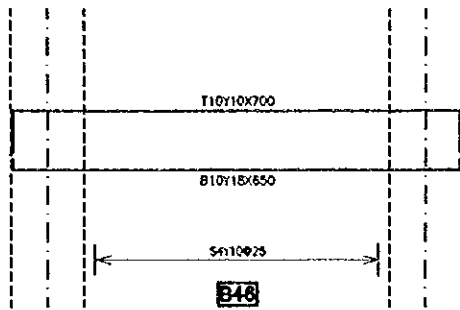
B44

B45

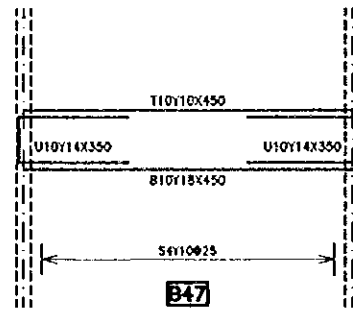
B46



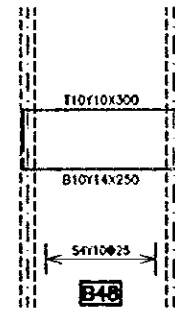
Typical Section Detail
Beam B47-B48
SCALE 1:20



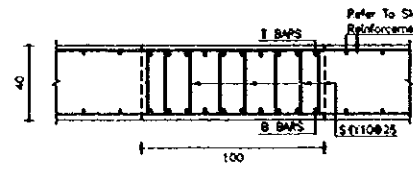
B48



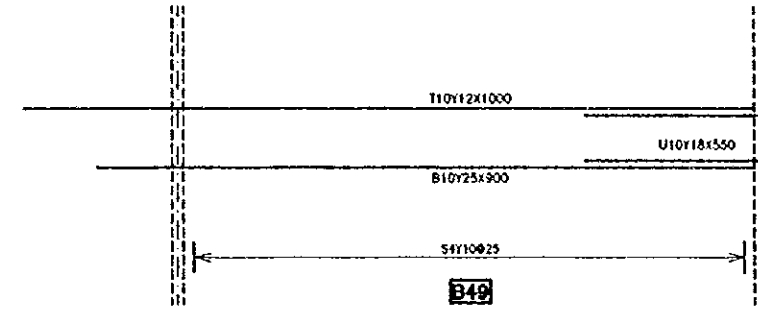
B47



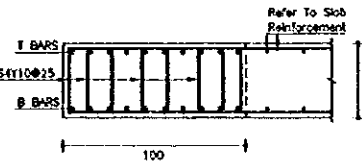
B48



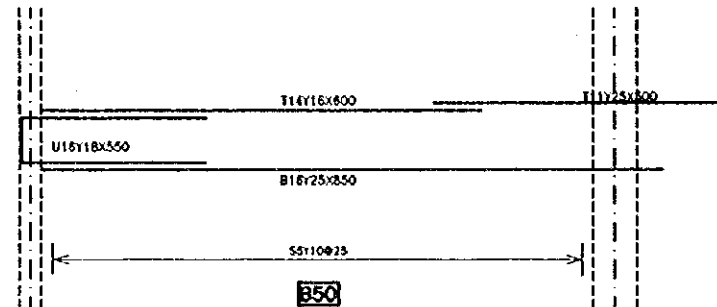
Typical Section Detail
Beam B49
SCALE 1:20



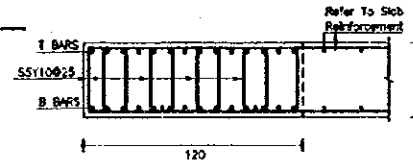
B49



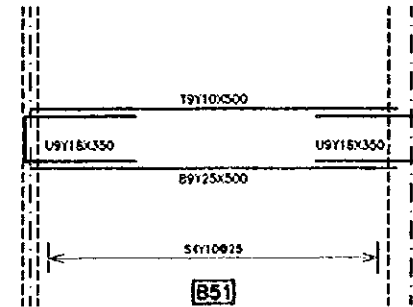
Typical Section Detail
Beam B50
SCALE 1:20



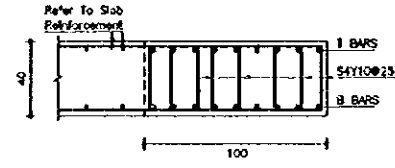
B50



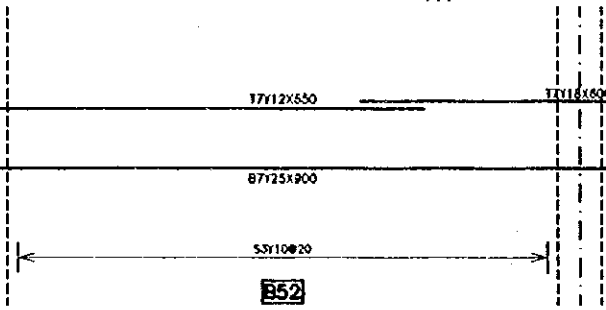
Typical Section Detail
Beam B51
SCALE 1:20



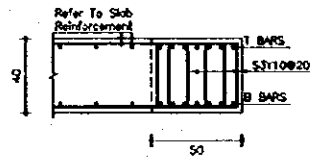
B51



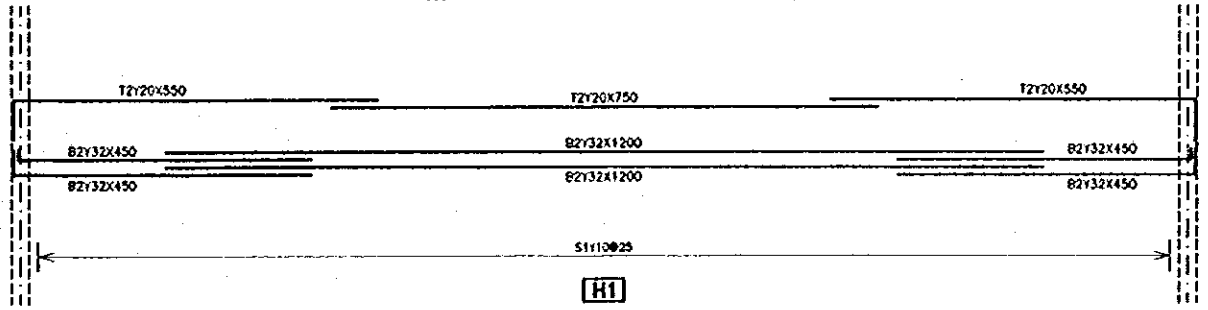
Typical Section Detail
Beam B52
SCALE 1:20



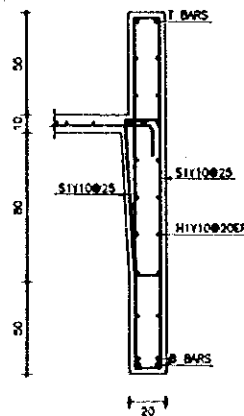
B52



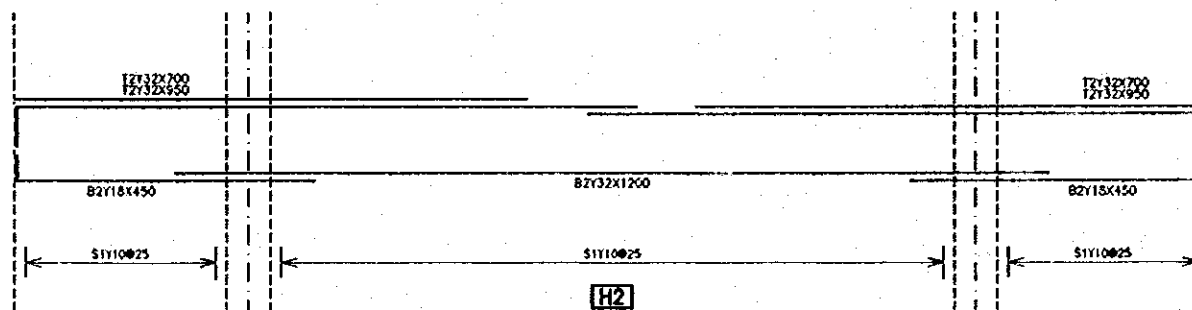
Typical Section Detail
Beam B52
SCALE 1:20



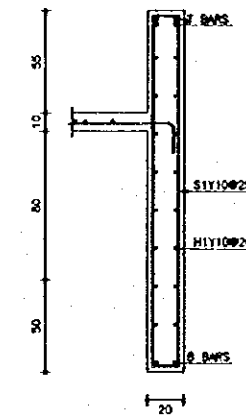
H1



Typical Section Detail
Beam H2
SCALE 1:20



H2



Typical Section Detail
Beam H2
SCALE 1:20

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Japan International Cooperation Agency (JICA)

JICA Study Team:

Joint Venture of
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Yamashita Sekkei Inc.

Subcontracted Local Consultant:

Jafar Tukan and Partners
Architects and Engineers

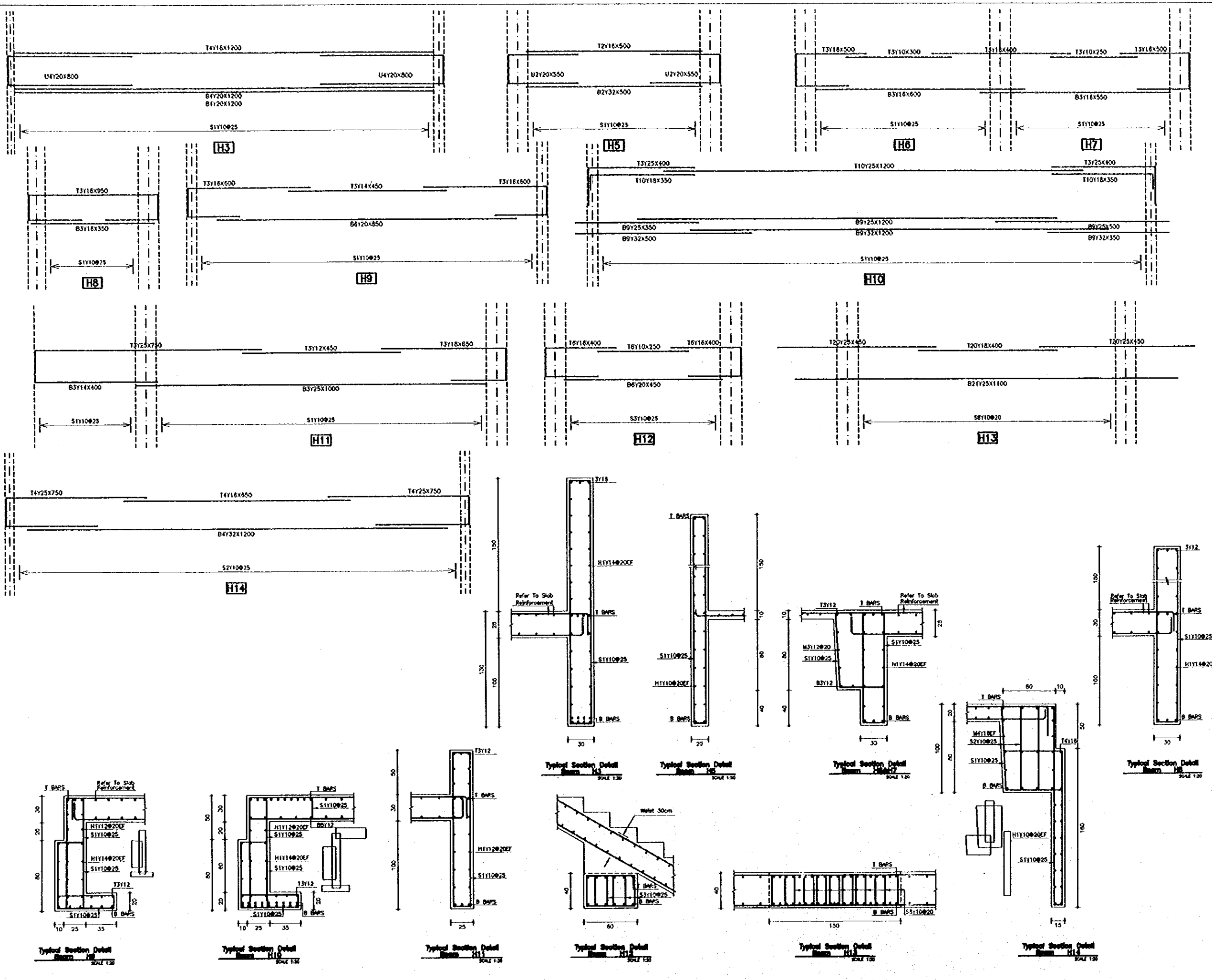
Drawing Title:

BEAM DETAILS
B32-B52 & H1-H2

Scale:
1:50-20

Drawing No.:
S-306

0015



Designed by:

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Subcontracted Local Consultant:

Jafar Tukan and Partners Architects and Engineers

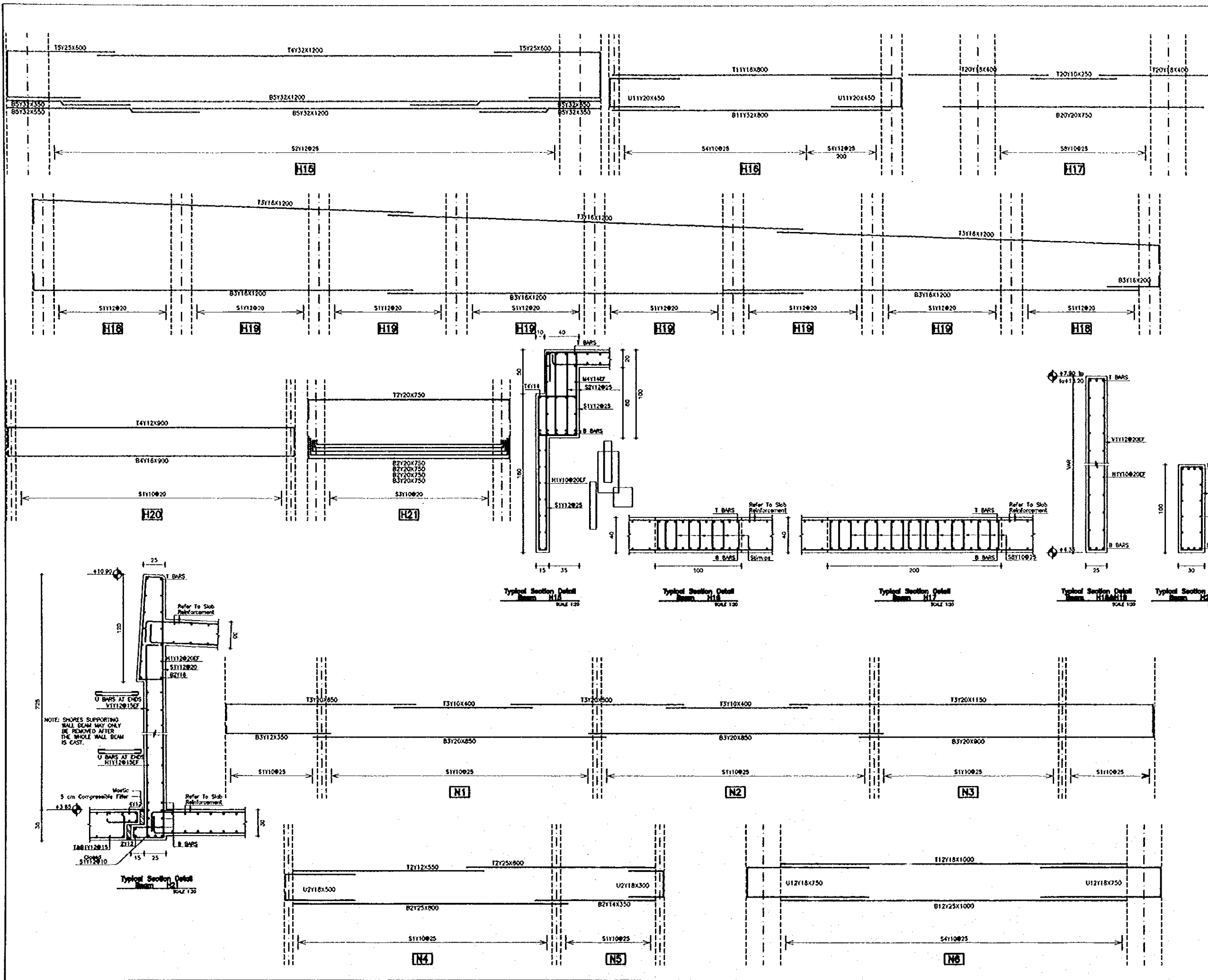
Drawing Title:

BEAM DETAILS
H3 & H5-H14

Scale: 1:30

Drawing No.: S-307

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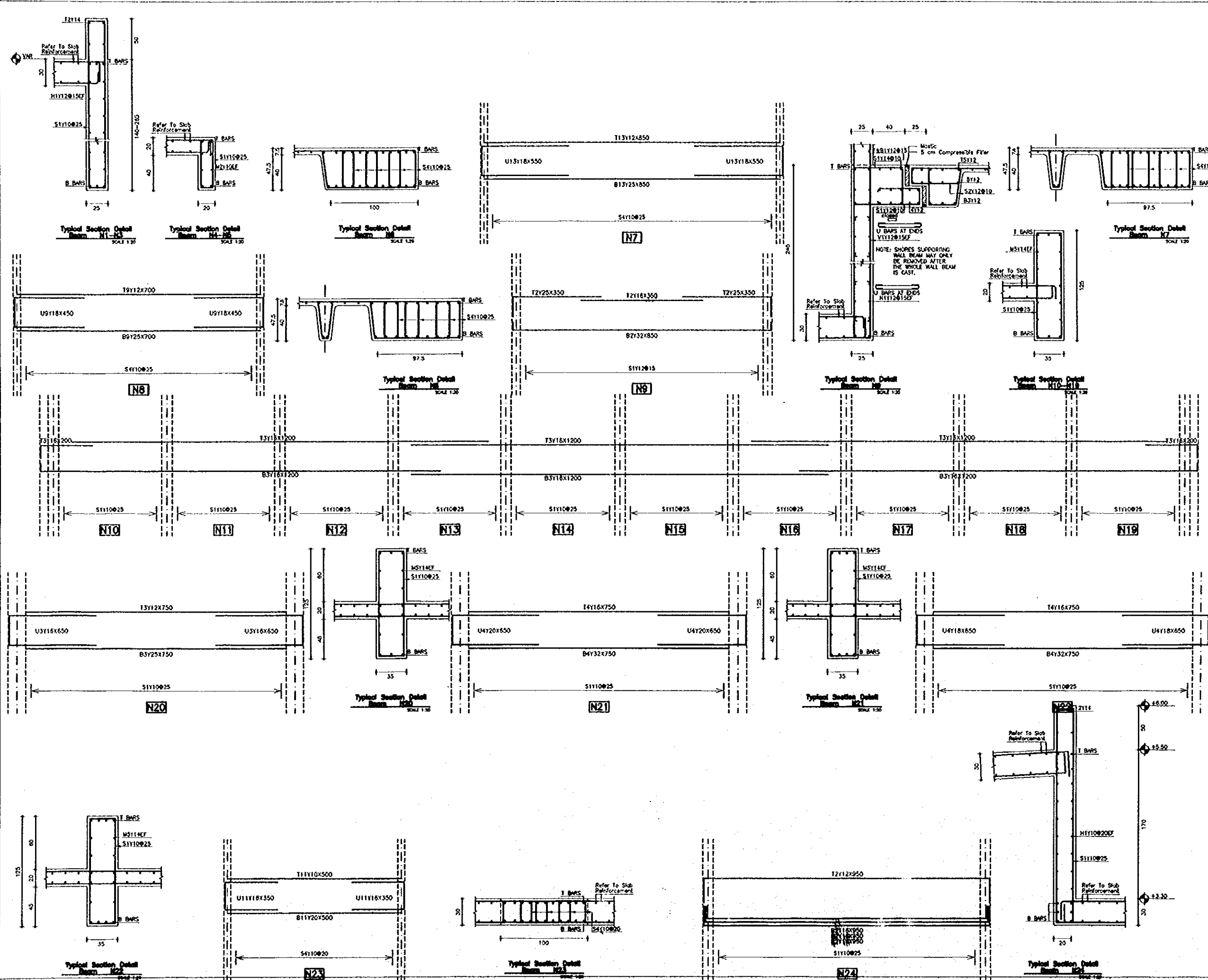
Designed by:
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JICA Study Team:
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Subcontracted Local Consultant:
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Architects and Engineers

Drawing Title:
**BEAM DETAILS
H15-H21 & N1-N6**

Scale: 1:50.00
Drawing No.: S-308

207

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Drawing Title:
**BEAM DETAILS
N7-N24**

Scale: 1:20 Drawing No.: S-300

-800

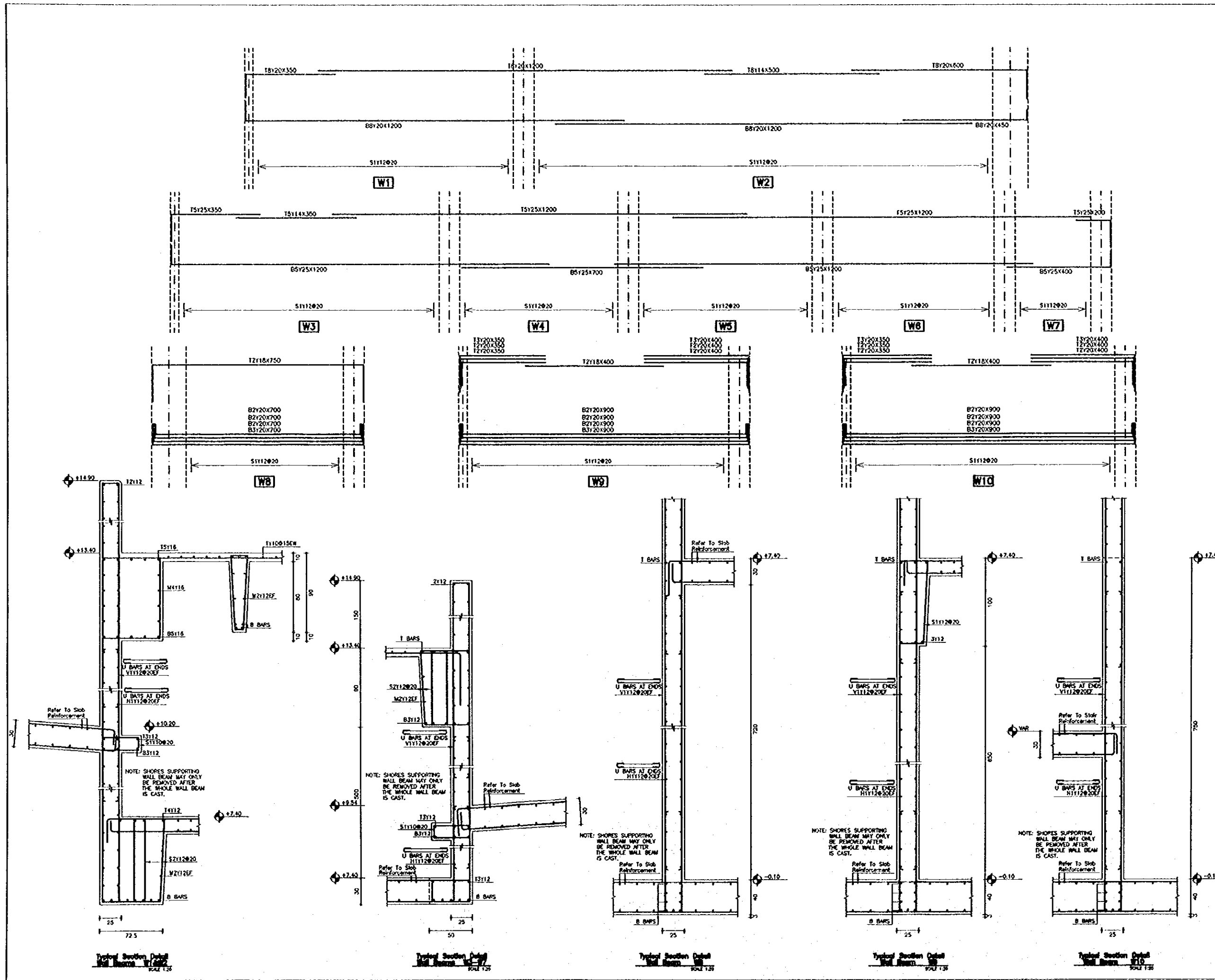
Sub Project:

NATIONAL MUSEUM

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Drawing Title:

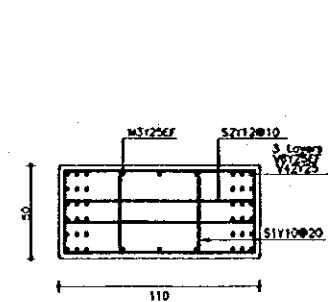
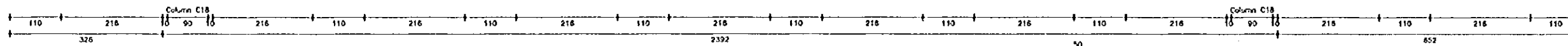
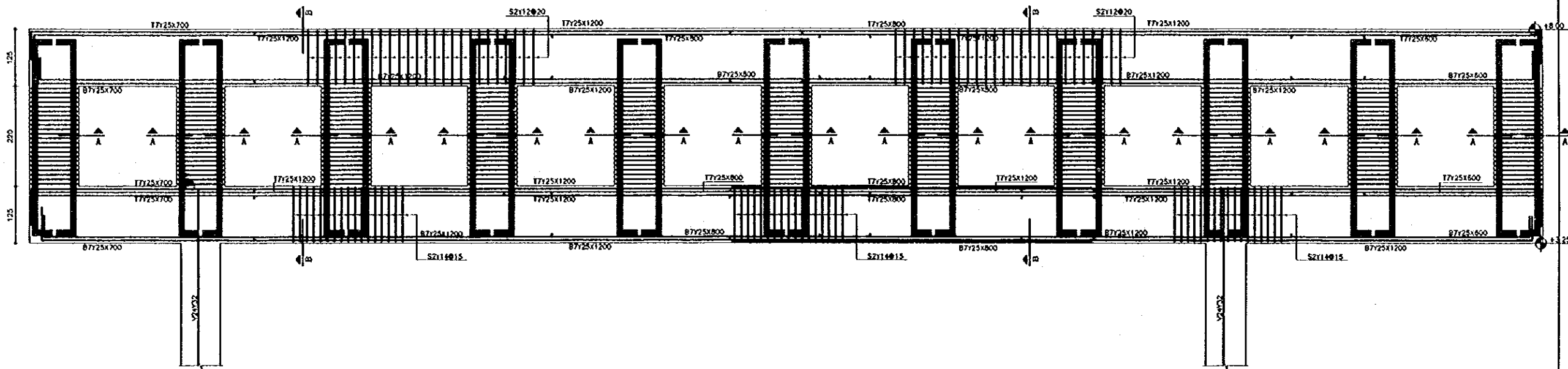
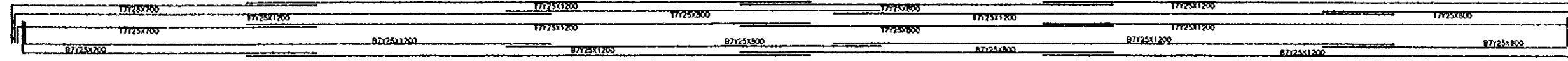
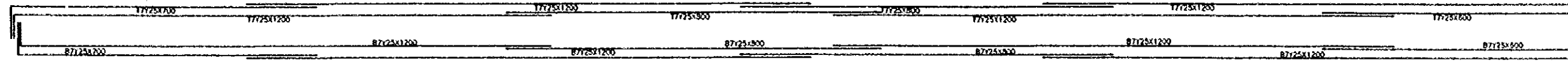
BEAM DETAILS
W1-W10

Scale:
1:50

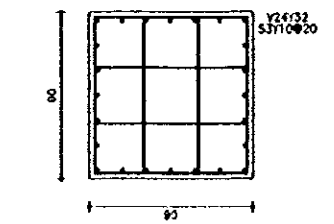
Drawing No.:
S-310

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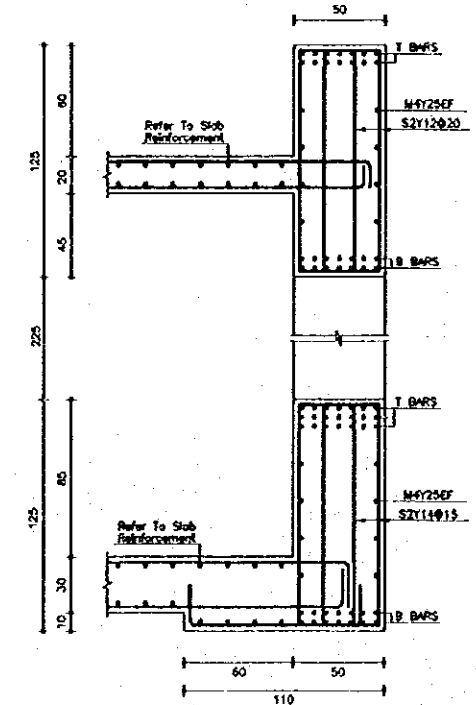
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Typical Section Detail A-A
SCALE 1:20



Typical Section Detail
Column C18 (Reinforcement Column)
SCALE 1:20



Typical Section Detail B-B
SCALE 1:20

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JICA Study Team:
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Subcontracted Local Consultant:
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Drawing Title:
**BRIDGE VIENEDEEL
DETAILS**

Scale: 1:50.25 Drawing No: **S-311**

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MEMBER No.	LOC.	BEGN NODE A	END NODE B	DESIGN PIPE SECTION	STRESS BOLTS (FRICTION)
1	(BOT)	1	2	#4.00"A	2M18 DF
2	(BOT)	2	3	#4.00"B	N.A.
3	(BOT)	3	4	#5.00"B	2M24 DF
4	(BOT)	4	5	#8.00"B	2M24 DF
5	(BOT)	5	6	#5.00"B	2M24 DF
6	(BOT)	6	7	#1.00"B	N.A.
7	(BOT)	7	8	#1.00"A	2M18 DF
8	(BOT)	9	10	#2.50"A	2M14 DF
9	(BOT)	10	11	#4.00"A	2M18 DF
10	(BOT)	11	12	#4.00"A	2M18 DF
11	(BOT)	12	13	#1.00"A	2M18 DF
12	(BOT)	13	14	#1.00"A	2M18 DF
13	(BOT)	14	15	#1.00"A	2M18 DF
14	(BOT)	15	16	#2.50"A	2M14 DF
15	(BOT)	17	18	#1.00"A	2M14 DF
16	(BOT)	18	19	#2.00"A	2M14 DF
17	(BOT)	19	20	#2.50"A	2M14 DF
18	(BOT)	20	21	#2.50"A	2M14 DF
19	(BOT)	21	22	#2.50"A	2M14 DF
20	(BOT)	22	23	#2.00"A	2M14 DF
21	(BOT)	23	24	#1.00"A	2M14 DF
22	(BOT)	25	26	#1.00"A	2M14 DF
23	(BOT)	26	27	#1.00"A	2M14 DF
24	(BOT)	27	28	#1.50"A	2M14 DF
25	(BOT)	28	29	#2.00"A	2M14 DF
26	(BOT)	29	30	#1.50"A	2M14 DF
27	(BOT)	30	31	#1.00"A	2M14 DF
28	(BOT)	31	32	#1.00"A	2M14 DF
29	(BOT)	33	34	#1.00"A	2M14 DF
30	(BOT)	34	35	#1.00"A	2M14 DF
31	(BOT)	35	36	#1.50"A	2M14 DF
32	(BOT)	36	37	#2.00"A	2M14 DF
33	(BOT)	37	38	#1.50"A	2M14 DF
34	(BOT)	38	39	#1.00"A	2M14 DF
35	(BOT)	39	40	#1.00"A	2M14 DF
36	(BOT)	41	42	#1.00"A	2M14 DF
37	(BOT)	42	43	#2.00"A	2M14 DF
38	(BOT)	43	44	#2.50"A	2M14 DF
39	(BOT)	44	45	#2.50"A	2M14 DF
40	(BOT)	45	46	#2.50"A	2M14 DF
41	(BOT)	46	47	#2.00"A	2M14 DF
42	(BOT)	47	48	#1.00"A	2M14 DF
43	(BOT)	49	50	#2.50"A	2M14 DF
44	(BOT)	50	51	#1.00"A	2M18 DF
45	(BOT)	51	52	#4.00"A	2M18 DF
46	(BOT)	52	53	#4.00"A	2M18 DF
47	(BOT)	53	54	#4.00"A	2M18 DF
48	(BOT)	54	55	#4.00"A	2M18 DF
49	(BOT)	55	56	#2.50"A	2M14 DF
50	(BOT)	57	58	#4.00"A	2M18 DF

MEMBER No.	LOC.	BEGN NODE A	END NODE B	DESIGN PIPE SECTION	STRESS BOLTS (FRICTION)
51	(BOT)	58	59	#4.00"B	N.A.
52	(BOT)	59	60	#5.00"B	2M24 DF
53	(BOT)	60	61	#8.00"B	2M24 DF
54	(BOT)	61	62	#5.00"B	2M24 DF
55	(BOT)	62	63	#4.00"B	N.A.
56	(BOT)	63	64	#4.00"A	2M18 DF
57	(BOT)	1	9	#4.00"A	2M18 DF
58	(BOT)	9	17	#4.00"B	N.A.
59	(BOT)	17	25	#5.00"B	2M24 DF
60	(BOT)	25	33	#8.00"B	2M24 DF
61	(BOT)	33	41	#5.00"B	2M24 DF
62	(BOT)	41	49	#4.00"B	N.A.
63	(BOT)	49	57	#4.00"A	2M18 DF
64	(BOT)	2	10	#2.50"A	2M14 DF
65	(BOT)	10	18	#4.00"A	2M18 DF
66	(BOT)	18	26	#4.00"A	2M18 DF
67	(BOT)	26	34	#4.00"A	2M18 DF
68	(BOT)	34	42	#4.00"A	2M18 DF
69	(BOT)	42	50	#4.00"A	2M18 DF
70	(BOT)	50	58	#2.50"A	2M14 DF
71	(BOT)	5	11	#1.00"A	2M14 DF
72	(BOT)	11	19	#2.00"A	2M14 DF
73	(BOT)	19	27	#2.50"A	2M14 DF
74	(BOT)	27	35	#2.50"A	2M14 DF
75	(BOT)	35	43	#2.50"A	2M14 DF
76	(BOT)	43	51	#2.00"A	2M14 DF
77	(BOT)	51	59	#1.00"A	2M14 DF
78	(BOT)	4	12	#1.00"A	2M14 DF
79	(BOT)	12	20	#1.00"A	2M14 DF
80	(BOT)	20	28	#1.50"A	2M14 DF
81	(BOT)	28	36	#2.00"A	2M14 DF
82	(BOT)	36	44	#1.50"A	2M14 DF
83	(BOT)	44	52	#1.00"A	2M14 DF
84	(BOT)	52	60	#1.00"A	2M14 DF
85	(BOT)	5	13	#1.00"A	2M14 DF
86	(BOT)	13	21	#1.00"A	2M14 DF
87	(BOT)	21	29	#1.50"A	2M14 DF
88	(BOT)	29	37	#2.00"A	2M14 DF
89	(BOT)	37	45	#1.50"A	2M14 DF
90	(BOT)	45	53	#1.00"A	2M14 DF
91	(BOT)	53	61	#1.00"A	2M14 DF
92	(BOT)	6	14	#1.00"A	2M14 DF
93	(BOT)	14	22	#2.00"A	2M14 DF
94	(BOT)	22	30	#2.50"A	2M14 DF
95	(BOT)	30	38	#2.50"A	2M14 DF
96	(BOT)	38	46	#2.50"A	2M14 DF
97	(BOT)	46	54	#2.00"A	2M14 DF
98	(BOT)	54	62	#1.00"A	2M14 DF
99	(BOT)	7	15	#2.50"A	2M14 DF
100	(BOT)	15	23	#4.00"A	2M18 DF

MEMBER No.	LOC.	BEGN NODE A	END NODE B	DESIGN PIPE SECTION	STRESS BOLTS (FRICTION)
101	(BOT)	23	31	#4.00"A	2M18 DF
102	(BOT)	31	39	#4.00"A	2M18 DF
103	(BOT)	39	47	#1.00"A	2M18 DF
104	(BOT)	47	55	#1.00"A	2M18 DF
105	(BOT)	55	63	#2.50"A	2M14 DF
106	(BOT)	6	16	#4.00"A	2M18 DF
107	(BOT)	16	24	#1.00"B	2M24 DF
108	(BOT)	24	32	#5.00"B	2M24 DF
109	(BOT)	32	40	#8.00"B	2M24 DF
110	(BOT)	40	48	#5.00"B	2M24 DF
111	(BOT)	48	56	#4.00"B	2M27 DF
112	(BOT)	56	64	#4.00"A	2M18 DF
113	(TOP)	65	66	#4.00"A	2M18 DF
114	(TOP)	66	67	#1.00"A	2M14 DF
115	(TOP)	67	68	#2.00"A	2M14 DF
116	(TOP)	68	69	#2.50"A	2M14 DF
117	(TOP)	69	70	#2.50"A	2M14 DF
118	(TOP)	70	71	#2.00"A	2M14 DF
119	(TOP)	71	72	#1.00"A	2M14 DF
120	(TOP)	72	73	#4.00"A	2M18 DF
121	(TOP)	74	75	#1.00"A	2M14 DF
122	(TOP)	75	76	#1.50"A	2M14 DF
123	(TOP)	76	77	#2.50"A	2M14 DF
124	(TOP)	77	78	#2.50"A	2M14 DF
125	(TOP)	78	79	#2.50"A	2M14 DF
126	(TOP)	79	80	#2.50"A	2M14 DF
127	(TOP)	80	81	#1.50"A	2M14 DF
128	(TOP)	81	82	#1.00"A	2M14 DF
129	(TOP)	83	84	#1.00"A	2M14 DF
130	(TOP)	84	85	#1.25"A	2M14 DF
131	(TOP)	85	86	#2.00"A	2M14 DF
132	(TOP)	86	87	#2.00"A	2M14 DF
133	(TOP)	87	88	#2.00"A	2M14 DF
134	(TOP)	88	89	#2.00"A	2M14 DF
135	(TOP)	89	90	#1.25"A	2M14 DF
136	(TOP)	90	91	#1.00"A	2M14 DF
137	(TOP)	92	93	#1.00"A	2M14 DF
138	(TOP)	93	94	#1.00"A	2M14 DF
139	(TOP)	94	95	#1.50"A	2M14 DF
140	(TOP)	95	96	#1.50"A	2M14 DF
141	(TOP)	96	97	#1.50"A	2M14 DF
142	(TOP)	97	98	#1.50"A	2M14 DF
143	(TOP)	98	99	#1.00"A	2M14 DF
144	(TOP)	99	100	#1.00"A	2M14 DF
145	(TOP)	101	102	#1.00"A	2M14 DF
146	(TOP)	102	103	#1.00"A	2M14 DF
147	(TOP)	103	104	#1.25"A	2M14 DF
148	(TOP)	104	105	#1.50"A	2M14 DF
149	(TOP)	105	106	#1.50"A	2M14 DF
150	(TOP)	106	107	#1.25"A	2M14 DF

MEMBER No.	LOC.	BEGN NODE A	END NODE B	DESIGN PIPE SECTION	STRESS BOLTS (FRICTION)
151	(TOP)	107	108	#1.00"A	2M14 DF
152	(TOP)	108	109	#1.00"A	2M14 DF
153	(TOP)	110	111	#1.00"A	2M14 DF
154	(TOP)	111	112	#1.00"A	2M14 DF
155	(TOP)	112	113	#1.50"A	2M14 DF
156	(TOP)	113	114	#1.50"A	2M14 DF
157	(TOP)	114	115	#1.50"A	2M14 DF
158	(TOP)	115	116	#1.50"A	2M14 DF
159	(TOP)	116	117	#1.00"A	2M14 DF
160	(TOP)	117	118	#1.00"A	2M14 DF
161	(TOP)	118	120	#1.00"A	2M14 DF
162	(TOP)	120	121	#1.25"A	2M14 DF
163	(TOP)	121	122	#2.00"A	2M14 DF
164	(TOP)	122	123	#2.00"A	2M14 DF
165	(TOP)	123	124	#2.00"A	2M14 DF
166	(TOP)	124	125	#2.00"A	2M14 DF
167	(TOP)	125	126	#1.25"A	2M14 DF
168	(TOP)	126	127	#1.00"A	2M14 DF
169	(TOP)	126	128	#1.00"A	2M14 DF
170	(TOP)	129	130	#1.50"A	2M14 DF
171	(TOP)	130	131	#2.50"A	2M14 DF
172	(TOP)	131	132	#2.50"A	2M14 DF
173	(TOP)	132	133	#2.50"A	2M14 DF
174	(TOP)	133	134	#2.50"A	2M14 DF
175	(TOP)	134	135	#1.00"A	2M14 DF
176	(TOP)	135	136	#1.00"A	2M14 DF
177	(TOP)	137	138	#4.00"A	2M18 DF
178	(TOP)	138	139	#1.00"A	2M14 DF
179	(TOP)	139	140	#2.00"A	2M14 DF
180	(TOP)	140	141	#2.50"A	2M14 DF
181	(TOP)	141	142	#2.50"A	2M14 DF
182	(TOP)	142	143	#2.00"A	2M14 DF
183	(TOP)	143	144	#1.00"A	2M14 DF
184	(TOP)	144	145	#4.00"A	2M18 DF
185	(TOP)	85	74	#4.00"A	2M18 DF
186	(TOP)	74	63	#1.00"A	2M14 DF
187	(TOP)	63	92	#2.00"A	2M14 DF
188	(TOP)	62	101	#2.50"A	2M14 DF
189	(TOP)	101	110	#2.50"A	2M14 DF
190	(TOP)	110	119	#2.00"A	2M14 DF
191	(TOP)	119	128	#1.00"A	2M14 DF
192	(TOP)	128	137	#4.00"A	2M18 DF
193	(TOP)	88	75	#1.00"A	2M14 DF
194	(TOP)	75	84	#1.50"A	2M14 DF
195	(TOP)	84	93	#2.50"A	2M14 DF
196	(TOP)	93	102	#2.50"A	2M14 DF
197	(TOP)	102	111	#2.50"A	2M14 DF
198	(TOP)	111	120	#2.50"A	2M14 DF
199	(TOP)	120	129	#1.50"A	2M14 DF
200	(TOP)	129	138	#1.00"A	2M14 DF

MEMBER No.	LOC.	BEGN NODE A	END NODE B	DESIGN PIPE SECTION	STRESS BOLTS (FRICTION)
201	(TOP)	87	78	#1.00"A	2M14 DF
202	(TOP)	76	65	#1.25"A	2M14 DF
203	(TOP)	65	94	#2.00"A	2M14 DF
204	(TOP)	94	103	#2.00"A	2M14 DF
205	(TOP)	103	112	#2.00"A	2M14 DF
206	(TOP)	112	121	#2.00"A	2M14 DF
207	(TOP)	121	130	#1.25"A	2M14 DF
208	(TOP)	130	139	#1.00"A	2M14 DF
209	(TOP)	88	77	#1.00"A	2M14 DF
210	(TOP)	77	68	#1.00"A	2M14 DF
211	(TOP)	68	95	#1.50"A	2M14 DF
212	(TOP)	95	104	#1.50"A	2M14 DF
213	(TOP)	104	113	#1.50"A	2M14 DF
214	(TOP)	113	122	#1.50"A	2M14 DF
215	(TOP)	122	131	#1.00"A	2M14 DF
216	(TOP)	131	140	#1.00"A	2M14 DF
217	(TOP)	69	78	#1.00"A	2M14 DF
218	(TOP)	78	87	#1.00"A	2M14 DF
219	(TOP)	87	96		

MEMBER No.	LOC.	BEGIN NODE A	END NODE B	DESIGN PIPE SECTION	STRESS BOLTS (FRACTION)
251	(TOP)	91	100	#2.00"A	2M14 SF
252	(TOP)	100	109	#2.50"A	2M14 SF
253	(TOP)	109	118	#2.50"A	2M14 SF
254	(TOP)	118	127	#2.00"A	2M14 SF
255	(TOP)	127	136	#1.00"A	2M14 SF
256	(TOP)	136	145	#1.00"A	2M14 SF
257	(DG)	1	65	#5.00"B	2M27 SF
258	(DG)	1	66	#1.00"A	2M24 SF
259	(DG)	1	74	#1.00"A	2M24 SF
260	(DG)	1	75	#1.00"A	2M14 SF
261	(DG)	2	66	#4.00"A	2M24 SF
262	(DG)	2	67	#2.50"A	2M18 SF
263	(DG)	2	75	#2.00"A	2M14 SF
264	(DG)	2	75	#1.25"A	2M18 SF
265	(DG)	3	67	#2.50"A	2M18 SF
266	(DG)	3	68	#1.50"A	2M14 SF
267	(DG)	3	76	#1.00"A	2M14 SF
268	(DG)	3	77	#1.25"A	2M14 SF
269	(DG)	4	68	#1.00"A	2M14 SF
270	(DG)	4	69	#1.00"A	2M14 SF
271	(DG)	4	77	#1.00"A	2M14 SF
272	(DG)	4	78	#1.00"A	2M14 SF
273	(DG)	5	69	#1.00"A	2M14 SF
274	(DG)	5	70	#1.00"A	2M14 SF
275	(DG)	5	78	#1.00"A	2M14 SF
276	(DG)	5	78	#1.00"A	2M14 SF
277	(DG)	6	70	#1.50"A	2M14 SF
278	(DG)	6	71	#2.50"A	2M18 SF
279	(DG)	6	73	#1.25"A	2M14 SF
280	(DG)	6	80	#1.00"A	2M14 SF
281	(DG)	7	71	#2.50"A	2M18 SF
282	(DG)	7	72	#4.00"A	2M24 SF
283	(DG)	7	80	#1.25"A	2M14 SF
284	(DG)	7	81	#2.00"A	2M14 SF
285	(DG)	8	72	#4.00"A	2M24 SF
286	(DG)	8	73	#5.00"B	2M27 SF
287	(DG)	8	81	#1.00"A	2M14 SF
288	(DG)	8	82	#4.00"A	2M24 SF
289	(DG)	8	74	#4.00"A	2M24 SF
290	(DG)	8	75	#2.00"A	2M14 SF
291	(DG)	8	83	#2.50"A	2M18 SF
292	(DG)	8	84	#1.25"A	2M14 SF
293	(DG)	10	75	#2.50"A	2M18 SF
294	(DG)	10	76	#1.25"A	2M14 SF
295	(DG)	10	84	#1.25"A	2M14 SF
296	(DG)	10	85	#1.25"A	2M14 SF
297	(DG)	11	76	#1.50"A	2M14 SF
298	(DG)	11	77	#1.00"A	2M14 SF
299	(DG)	11	85	#1.00"A	2M14 SF
300	(DG)	11	88	#1.25"A	2M14 SF

MEMBER No.	LOC.	BEGIN NODE A	END NODE B	DESIGN PIPE SECTION	STRESS BOLTS (FRACTION)
351	(DG)	24	93	#1.25"A	2M14 SF
352	(DG)	24	100	#1.50"A	2M14 SF
353	(DG)	25	92	#1.00"A	2M14 SF
354	(DG)	25	93	#1.00"A	2M14 SF
355	(DG)	25	101	#1.00"A	2M14 SF
356	(DG)	25	102	#1.00"A	2M14 SF
357	(DG)	26	93	#1.00"A	2M14 SF
358	(DG)	26	94	#1.00"A	2M14 SF
359	(DG)	26	102	#1.00"A	2M14 SF
360	(DG)	26	103	#1.00"A	2M14 SF
361	(DG)	27	94	#1.00"A	2M14 SF
362	(DG)	27	95	#1.00"A	2M14 SF
363	(DG)	27	103	#1.00"A	2M14 SF
364	(DG)	27	104	#1.00"A	2M14 SF
365	(DG)	28	95	#1.00"A	2M14 SF
366	(DG)	28	95	#1.00"A	2M14 SF
367	(DG)	28	104	#1.00"A	2M14 SF
368	(DG)	28	105	#1.00"A	2M14 SF
369	(DG)	29	95	#1.00"A	2M14 SF
370	(DG)	29	97	#1.00"A	2M14 SF
371	(DG)	29	105	#1.00"A	2M14 SF
372	(DG)	29	106	#1.00"A	2M14 SF
373	(DG)	30	97	#1.00"A	2M14 SF
374	(DG)	30	98	#1.00"A	2M14 SF
375	(DG)	30	106	#1.00"A	2M14 SF
376	(DG)	30	107	#1.00"A	2M14 SF
377	(DG)	31	98	#1.00"A	2M14 SF
378	(DG)	31	99	#1.00"A	2M14 SF
379	(DG)	31	107	#1.00"A	2M14 SF
380	(DG)	31	108	#1.00"A	2M14 SF
381	(DG)	32	99	#1.00"A	2M14 SF
382	(DG)	32	100	#1.00"A	2M14 SF
383	(DG)	32	108	#1.00"A	2M14 SF
384	(DG)	32	109	#1.00"A	2M14 SF
385	(DG)	33	101	#1.00"A	2M14 SF
386	(DG)	33	102	#1.00"A	2M14 SF
387	(DG)	33	110	#1.00"A	2M14 SF
388	(DG)	33	111	#1.00"A	2M14 SF
389	(DG)	34	102	#1.00"A	2M14 SF
390	(DG)	34	103	#1.00"A	2M14 SF
391	(DG)	34	111	#1.00"A	2M14 SF
392	(DG)	34	112	#1.00"A	2M14 SF
393	(DG)	35	103	#1.00"A	2M14 SF
394	(DG)	35	104	#1.00"A	2M14 SF
395	(DG)	35	112	#1.00"A	2M14 SF
396	(DG)	35	113	#1.00"A	2M14 SF
397	(DG)	36	104	#1.00"A	2M14 SF
398	(DG)	36	105	#1.00"A	2M14 SF
399	(DG)	36	113	#1.00"A	2M14 SF
400	(DG)	36	114	#1.00"A	2M14 SF

MEMBER No.	LOC.	BEGIN NODE A	END NODE B	DESIGN PIPE SECTION	STRESS BOLTS (FRACTION)
301	(DG)	12	77	#1.00"A	2M14 SF
302	(DG)	12	78	#1.00"A	2M14 SF
303	(DG)	12	86	#1.00"A	2M14 SF
304	(DG)	12	87	#1.00"A	2M14 SF
305	(DG)	13	78	#1.00"A	2M14 SF
306	(DG)	13	79	#1.00"A	2M14 SF
307	(DG)	13	87	#1.00"A	2M14 SF
308	(DG)	13	88	#1.00"A	2M14 SF
309	(DG)	14	79	#1.00"A	2M14 SF
310	(DG)	14	80	#1.50"A	2M14 SF
311	(DG)	14	88	#1.25"A	2M14 SF
312	(DG)	14	89	#1.00"A	2M14 SF
313	(DG)	15	80	#1.25"A	2M14 SF
314	(DG)	15	81	#2.50"A	2M18 SF
315	(DG)	15	82	#1.25"A	2M14 SF
316	(DG)	15	90	#1.25"A	2M14 SF
317	(DG)	16	81	#2.00"A	2M14 SF
318	(DG)	16	82	#1.00"A	2M14 SF
319	(DG)	16	90	#1.25"A	2M14 SF
320	(DG)	16	81	#2.50"A	2M18 SF
321	(DG)	17	83	#2.50"A	2M18 SF
322	(DG)	17	84	#1.00"A	2M14 SF
323	(DG)	17	92	#1.50"A	2M14 SF
324	(DG)	17	93	#1.25"A	2M14 SF
325	(DG)	18	84	#1.50"A	2M14 SF
326	(DG)	18	85	#1.00"A	2M14 SF
327	(DG)	18	93	#1.00"A	2M14 SF
328	(DG)	18	94	#1.25"A	2M14 SF
329	(DG)	19	85	#1.00"A	2M14 SF
330	(DG)	19	86	#1.00"A	2M14 SF
331	(DG)	19	94	#1.00"A	2M14 SF
332	(DG)	19	95	#1.25"A	2M14 SF
333	(DG)	20	86	#1.00"A	2M14 SF
334	(DG)	20	87	#1.00"A	2M14 SF
335	(DG)	20	95	#1.00"A	2M14 SF
336	(DG)	20	96	#1.00"A	2M14 SF
337	(DG)	21	87	#1.00"A	2M14 SF
338	(DG)	21	88	#1.00"A	2M14 SF
339	(DG)	21	95	#1.00"A	2M14 SF
340	(DG)	21	87	#1.00"A	2M14 SF
341	(DG)	22	88	#1.00"A	2M14 SF
342	(DG)	22	89	#1.00"A	2M14 SF
343	(DG)	22	97	#1.25"A	2M14 SF
344	(DG)	22	98	#1.00"A	2M14 SF
345	(DG)	23	89	#1.00"A	2M14 SF
346	(DG)	23	90	#1.50"A	2M14 SF
347	(DG)	23	98	#1.25"A	2M14 SF
348	(DG)	23	99	#1.00"A	2M14 SF
349	(DG)	24	90	#1.00"A	2M14 SF
350	(DG)	24	91	#2.50"A	2M18 SF

MEMBER No.	LOC.	BEGIN NODE A	END NODE B	DESIGN PIPE SECTION	STRESS BOLTS (FRACTION)
401	(DG)	37	105	#1.00"A	2M14 SF
402	(DG)	37	106	#1.00"A	2M14 SF
403	(DG)	37	114	#1.00"A	2M14 SF
404	(DG)	37	115	#1.00"A	2M14 SF
405	(DG)	38	106	#1.00"A	2M14 SF
406	(DG)	38	107	#1.00"A	2M14 SF
407	(DG)	38	115	#1.00"A	2M14 SF
408	(DG)	38	116	#1.00"A	2M14 SF
409	(DG)	39	107	#1.00"A	2M14 SF
410	(DG)	39	108	#1.00"A	2M14 SF
411	(DG)	39	116	#1.00"A	2M14 SF
412	(DG)	39	117	#1.00"A	2M14 SF
413	(DG)	40	108	#1.00"A	2M14 SF
414	(DG)	40	109	#1.00"A	2M14 SF
415	(DG)	40	117	#1.00"A	2M14 SF
416	(DG)	40	118	#1.00"A	2M14 SF
417	(DG)	41	110	#1.50"A	2M14 SF
418	(DG)	41	111	#1.25"A	2M14 SF
419	(DG)	41	119	#2.50"A	2M18 SF
420	(DG)	41	120	#1.00"A	2M14 SF
421	(DG)	42	111	#1.00"A	2M14 SF
422	(DG)	42	112	#1.25"A	2M14 SF
423	(DG)	42	120	#1.50"A	2M14 SF
424	(DG)	42	121	#1.00"A	2M14 SF
425	(DG)	43	112	#1.00"A	2M14 SF
426	(DG)	43	113	#1.25"A	2M14 SF
427	(DG)	43	121	#1.00"A	2M14 SF
428	(DG)	43	122	#1.00"A	2M14 SF
429	(DG)	44	113	#1.00"A	2M14 SF
430	(DG)	44	114	#1.00"A	2M14 SF
431	(DG)	44	122	#1.00"A	2M14 SF
432	(DG)	44	123	#1.00"A	2M14 SF
433	(DG)	45	114	#1.00"A	2M14 SF
434	(DG)	45	115	#1.00"A	2M14 SF
435	(DG)	45	123	#1.00"A	2M14 SF
436	(DG)	45	124	#1.00"A	2M14 SF
437	(DG)	46	115	#1.25"A	2M14 SF
438	(DG)	46	118	#1.00"A	2M14 SF
439	(DG)	46	124	#1.00"A	2M14 SF
440	(DG)	46	125	#1.00"A	2M14 SF
441	(DG)	47	118	#1.25"A	2M14 SF
442	(DG)	47	117	#1.00"A	2M14 SF
443	(DG)	47	125	#1.00"A	2M14 SF
444	(DG)	47	126	#1.50"A	2M14 SF
445	(DG)	48	117	#1.25"A	2M14 SF
446	(DG)	48	118	#1.50"A	2M14 SF
447	(DG)	48	126	#1.00"A	2M14 SF
448	(DG)	48	127	#2.50"A	2M18 SF
449	(DG)	49	119	#2.50"A	2M18 SF
450	(DG)	49	120	#1.25"A	2M14 SF

MEMBER No.	LOC.	BEGIN NODE A	END NODE B	DESIGN PIPE SECTION	STRESS BOLTS (FRACTION)
451	(DG)	49	128	#1.00"A	2M24 SF
452	(DG)	49	129	#2.00"A	2M14 SF
453	(DG)	50	120	#1.25"A	2M14 SF
454	(DG)	50	121	#1.25"A	2M14 SF
455	(DG)	50	129	#2.50"A	2M18 SF
456	(DG)	50	130	#1.25"A	2M14 SF
457	(DG)	51	121	#1.00"A	2M14 SF
458	(DG)	51	122	#1.25"A	2M14 SF
459	(DG)	51	130	#1.50"A	2M14 SF
460	(DG)	51	131	#1.00"A	2M14 SF
461	(DG)	52	122	#1.00"A	2M14 SF
462	(DG)	52	123	#1.00"A	2M14 SF
463	(DG)	52	131	#1.00"A	2M14 SF
464	(DG)	52	132	#1.00"A	2M14 SF
465	(DG)	53	123	#1.00"A	2M14 SF
466	(DG)	53	124	#1.00"A	2M14 SF
467	(DG)	53	132	#1.00"A	2M14 SF
468	(DG)	53	133	#1.00"A	2M14 SF
469	(DG)	54	124	#1.25"A	2M14 SF
470	(DG)	54	125	#1.00"A	2M14 SF
471	(DG)	54	133	#1.00"A	2M14 SF