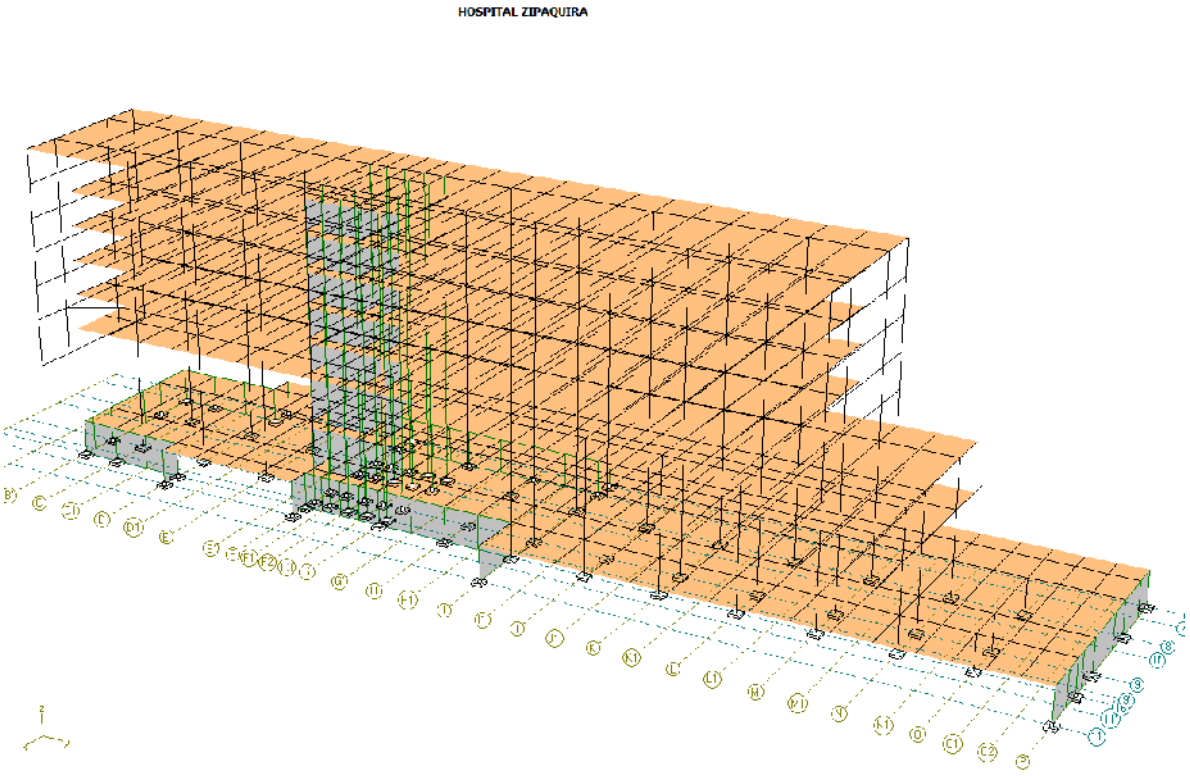
NUEVO HOSPITAL DE ZIPAQUIRÁ.



MEMORIAS DE CÁLCULOS ESTRUCTURALES

INTERDICO LTDA.
DISEÑO Y CONSTRUCCIÓN DE ESTRUCTURAS

AGOSTO -2010

INTERDICO LTDA.
Diseño y Construcción de Estructuras

PROYECTO:
NUEVO HOSPITAL DE ZIPAQUIRÁ.

NUEVO HOSPITAL DE ZIPAQUIRA.

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ING. CARLOS ARTURO CASTRO S.
MATRÍCULA PROFESIONAL No 2520207023 CND.

NUEVO HOSPITAL DE ZIPAQUIRÁ.

MEMORIAS DE CALCULO

DESCRIPCION DEL PROYECTO.

INTERDICO LTDA.
Diseño y Construcción de Estructuras

NUEVO HOSPITAL DE ZIPAQUIRA.

DESCRIPCIÓN DEL PROYECTO

ESTUDIO DE SUELOS:	INGENIERIA Y GEORIESGOS IGR Ltda.	
CIMENTACIÓN:	Pilotes, Dados y Vigas de Amarre.	
SUPERESTRUCTURA:	Altura de la edificación:	8 Niveles y Cubierta.
	Sistema estructural:	Pórticos de Concreto.
METODO DE DISENO SISMICO:	(FHE) Fuerza Horizontal equivalente.	
PROGRAMA DE CALCULO:	RCB	
NORMA DE DISENO:	Normas Colombianas de Diseño y Construcción Sismo-resistente (Decreto 33 de 1998)	
MATERIAL:	Concreto Cimentación: f'c = 280 kgf/cm²	
	Concreto Columnas: f'c = 280 kgf/cm²	
	Acero: fy = 2400 kgf/cm² (ø = ¼")	
	fy = 4200 kgf/cm² (ø > ¼")	

AVALÚO DE CARGAS

Operaciones.	Carga Viva:	0.20 *Ton/m²*
Cuartos	Carga Viva:	0.40 *Ton/m²*
Cubierta	Carga Viva:	0.5 *Ton/m²*

GRADO DE DISIPACIÓN DE ENERGÍA	DMO	*Moderada*
GRUPO DE USO	IV	

NUEVO HOSPITAL DE ZIPAQUIRÁ.

MEMORIAS DE CALCULO

EVALUACION DE CARGA.

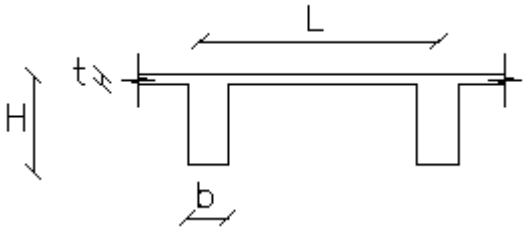
INTERDICO Ltda.

Proyecto: HOSPITAL ZIPAQUIRA

Ingeniero: RODRIGO CASTRO S

AVALUO DE CARGAS PLACA NERVADA

ITEM	Peso (t/m2)
Placa	0.08 * 2.4
Viguetas	0.3 * 0.62* 2.4 / 3.6
Riostras	
Acabados	0.10
Tabiques	0.20
Cielo Raso	0.04
Otros	0.00
Carga muerta	0.66
Carga viva	0.40
Carga total	1.06
Carga mayorada	1.60
Factor de carga	1.51



t (m)	0.08
H (m)	0.70
b (m)	0.30
L (m)	3.60

GEOMETRIA PLACA NERVADA

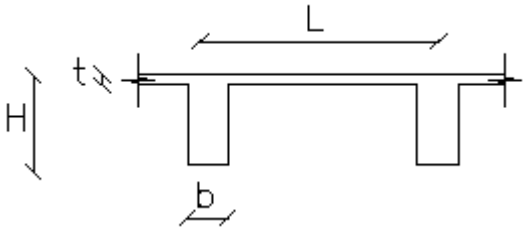
INTERDICO Ltda.

Proyecto: HOSPITAL ZIPAQUIRA

Ingeniero: RODRIGO CASTRO S

AVALUO DE CARGAS PLACA NERVADA

ITEM	Peso (t/m2)
Placa	0.08 * 2.4
Viguetas	0.3 * 0.62* 2.4 / 3.6
Riostras	
Acabados	0.10
Tabiques	0.20
Cielo Raso	0.04
Otros	0.00
Carga muerta	0.66
Carga viva	0.20
Carga total	0.86
Carga mayorada	1.26
Factor de carga	1.47



t (m)	0.08
H (m)	0.70
b (m)	0.30
L (m)	3.60

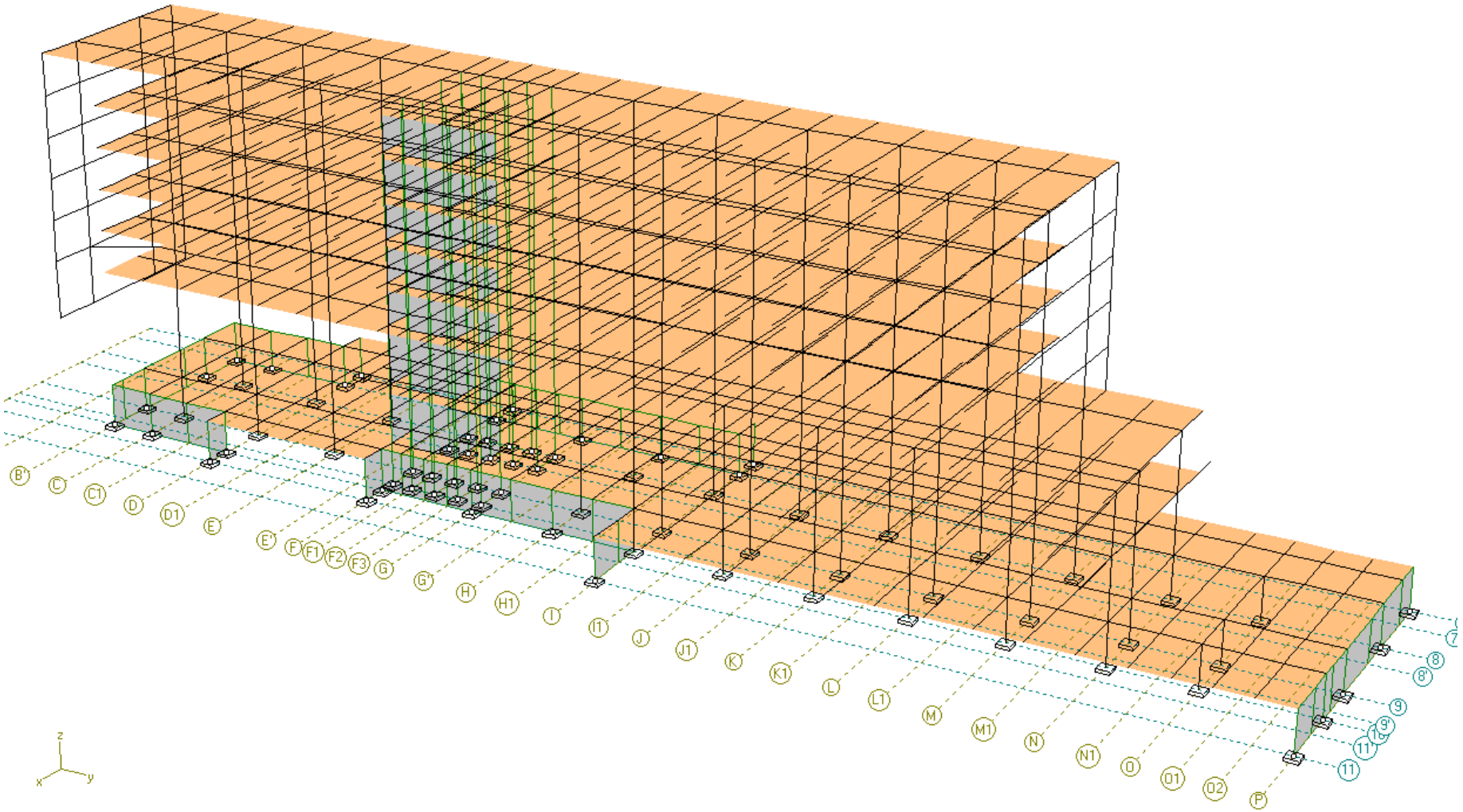
GEOMETRIA PLACA NERVADA

NUEVO HOSPITAL DE ZIPAQUIRÁ.

MEMORIAS DE CALCULO

ISOMETRICO DEL MODELO.

HOSPITAL ZIPAQUIRA



NUEVO HOSPITAL DE ZIPAQUIRÁ.

MEMORIAS DE CALCULO

ANALISIS SISMICO.

EQUIVALENT STATIC EARTHQUAKE FORCES COL NSR-98

Base Shear

V = Sa W
Sa = 1.2 Aa S I/ T, Sa = Aa I/2 for T >2.4 S
Sa = 2.5 Aa I for T<Tc, where Tc = 0.48 S

S E I S M I C P A R A M E T E R S

Peak acceleration, Aa ..... = .20

Region:	10	9	8	7	6	5	4	3	2	1
Aa:	0.45	0.40	0.35	0.30	0.25	0.20	0.15	0.10	0.075	0.05

LOCATION	Aa
Mocoa	0.35
Cucuta, Neiva, Pasto, Quibdo, Villavicencio	0.30
Armenia, B/manga, Cali, Manizales, Pereira, Popayan	0.25
Bogota , Ibague, Medellin, Tunja	0.20
Monteria, Santa Marta	0.15
Barranquilla, Cartagena, San Andres	0.10

Importance coefficient, I ..... = 1.3

GROUP	COEFFICIENT
IV - Essential facilities	1.30
III- Public assistance facilities	1.20
II - Especial occupancy buildings	1.10
I - Normal occupancy buildings	1.00

Site profile coefficient, S ..... = 1.2

PROFILE TYPE	S1	S2	S3	S4
FACTOR S	1.0	1.2	1.5	2.0

	X-direction	Y-direction
Energy Dissipation Coefficient, Ro =	5	5
T = 0.08 h^¾ ..... =	1.05	1.05
T = 0.05 h^¾ ..... =	.66	.66
Tmax: 1.2 Ta ..... =	.79	.79
Fundamental period, T ..... =	1.05	1.05

Reduction in R for Irregular Buildings:

PLAN IRREGULARITIES			ELEVATION IRREGULARITIES		
Type	Description	Øp	Type	Description	Øa
1P	Torsional	0.9	1A	Stiffness	0.9
2P	Reentrant corners	0.9	2A	Mass	0.9
3P	Diaph. discontin.	0.9	3A	Geometrical	0.9
4P	Plane shifting	0.8	4A	Plane shifting	0.8
5P	Unparallel grid	0.9	5A	Resistance	0.8

NOTE: EngSolutions RCB assumes irregular building.
For regular buildings make (Øp . Øa)= 1.0
Reduction factor, (Øp . Øa) : 0.81
R = (Øp . Øa)Ro

T O T A L B A S E S H E A R
Building Weight, W, (ton) = 11767.69

Acceleration, Aa	= .2
Transition period, Tc	= .58
Site coefficient, S	= 1.2
Importance factor, I	= 1.3
Reduct.for Irregularity, Øa .Øp	= .81

	X-direction	Y-direction
Reduced energy coef, R =	4.05	4.05

Period, T, (sec) . . .	=	1.05	1.05
1.2 Aa S I / T	=	.357	.357
2.5 Aa I	=	.65	.65
Sa	=	.357	.357

Total Base Shear, V, (ton) = 4196.02 4196.02

A C C I D E N T A L T O R S I O N

	X-direction	Y-direction
Accidental eccentricity as a percentage of building dimension, (%)=	5	5

A C C I D E N T A L E C C E N T R I C I T Y:

Level	X - D I R E C T I O N (EQY) dexo (m)	Ax -	dex (m)	Y - D I R E C T I O N (EQX) deyo (m)	Ax -	dey (m)
8	0.82	1.00	0.82	4.19	1.00	4.19
7	0.82	1.00	0.82	4.19	1.00	4.19
6	0.82	1.00	0.82	4.19	1.00	4.19
5	0.82	1.00	0.82	4.19	1.00	4.19
4	0.82	1.00	0.82	4.19	1.00	4.19
3	0.93	1.00	0.93	4.56	1.00	4.56
2	1.23	1.00	1.23	4.56	1.00	4.56
1	1.23	1.00	1.23	5.09	1.00	5.09

Ax: Amplification factor for accidental eccentricity

EQY: Envelope (1) Ex = ex
(2) Ex = ex + dex
(3) Ex = ex - dex

EQX: Envelope (1) Ey = ey
(2) Ey = ey + dey
(3) Ey = ey - dey

D E S I G N E C C E N T R I C I T Y : E = e + de

Level	X - D I R E C T I O N (EQY) Center Mass CMx	Static Eccent. ex*	Accident Eccent. dex	Design Eccent. Ex	Y - D I R E C T I O N (EQX) Center Mass CMy	Static Eccent. ey*	Accident Eccent. dey	Design Eccent. Ey
8	8.45	-0.86	0.82	-1.688	35.74	2.92	4.19	7.1111
7	8.06	-1.24	0.82	-2.066	37.13	4.31	4.19	8.5050
6	8.06	-1.24	0.82	-2.066	37.13	4.31	4.19	8.5050
5	8.06	-1.24	0.82	-2.066	37.13	4.31	4.19	8.5050
4	8.06	-1.24	0.82	-2.066	37.21	4.38	4.19	8.5757
3	8.66	-0.65	0.93	-1.588	44.58	11.44	4.56	16.000
2	8.85	-0.46	1.23	-1.699	53.07	19.67	4.56	24.233
1	8.98	-0.11	1.23	-1.344	52.19	16.98	5.09	22.077

Note: * Static eccentricity: ex = CMx - CRx and ey = CMy - CRy
All values are in meters

D E S I G N E C C E N T R I C I T Y : E = e - de

Level	X - D I R E C T I O N (EQY) Center Mass CMx	Static Eccent. ex*	Accident Eccent. dex	Design Eccent. Ex	Y - D I R E C T I O N (EQX) Center Mass CMy	Static Eccent. ey*	Accident Eccent. dey	Design Eccent. Ey
8	8.45	-0.86	0.82	-0.044	35.74	2.92	4.19	-1.277
7	8.06	-1.24	0.82	-0.422	37.13	4.31	4.19	0.1212
6	8.06	-1.24	0.82	-0.422	37.13	4.31	4.19	0.1212
5	8.06	-1.24	0.82	-0.422	37.13	4.31	4.19	0.1212
4	8.06	-1.24	0.82	-0.422	37.21	4.38	4.19	0.1919

3	8.66	-0.65	0.93	0.2828	44.58	11.44	4.56	6.8888
2	8.85	-0.46	1.23	0.7777	53.07	19.67	4.56	15.111
1	8.98	-0.11	1.23	1.1212	52.19	16.98	5.09	11.899

Note: * Static eccentricity: ex = CMx - CRx and ey = CMy - CRy
All values are in meters

Equivalent Forces

Fi = (Wi Hi^n /SWj Hj^n) V
V =SFi
V = Sa W

E Q U I V A L E N T F O R C E S: X - D I R E C T I O N (EQUAKE X)

Floor i -	Height Hi (m)	Weigth Wi (ton)	Wi Hi^n / SWj Hj^n	Force Fi (ton)	Shear Vi (ton)	Torsion Ti=Fi(Ey-ey) (ton-m)
8	30.79	318.8	0.063	264.34	264.34	1107.9
7	27.29	1399	0.238	998.65	1263.0	4184.4
6	23.79	1399	0.199	835.00	2098.0	3498.7
5	20.29	1399	0.163	683.95	2781.9	2865.7
4	16.79	1395	0.128	537.09	3319.0	2252.7
3	13.30	1811	0.123	516.10	3835.1	2354.4
2	8.39	1439	0.054	226.58	4061.7	1034.0
1	3.50	2608	0.032	134.27	4196.0	684.11
S		11767.69		4196.0		

n = 1.275

E Q U I V A L E N T F O R C E S: Y - D I R E C T I O N (EQUAKE Y)

Floor i -	Height Hi (m)	Weigth Wi (ton)	Wi Hi^n / SWj Hj^n	Force Fi (ton)	Shear Vi (ton)	Torsion Ti=Fi(Ex-ex) (ton-m)
8	30.79	318.8	0.063	264.34	264.34	217.94
7	27.29	1399	0.238	998.65	1263.0	822.35
6	23.79	1399	0.199	835.00	2098.0	687.59
5	20.29	1399	0.163	683.95	2781.9	563.20
4	16.79	1395	0.128	537.09	3319.0	442.65
3	13.30	1811	0.123	516.10	3835.1	480.94
2	8.39	1439	0.054	226.58	4061.7	279.26
1	3.50	2608	0.032	134.27	4196.0	165.79
S		11767.69		4196.0		

n = 1.275

NUEVO HOSPITAL DE ZIPAQUIRÁ.

MEMORIAS DE CALCULO

EVALUACION DE IRREGULARIDAD.

Company: INTERDICO LTDA Engineer: RODRIGO CASTRO S
Project: HOSPITAL ZIPAQUIRA 09:27:31 a.m. 05/08/2010

PLAN TORSIONAL IRREGULARITY CHECK

	EARTHQUAKE - X				EARTHQUAKE - Y			
Level								
8	0.0069	0.0052	0.0062	YES	0.0098	0.0031	0.0038	NO
7	0.0073	0.0055	0.0066	YES	0.0037	0.0037	0.0044	NO
6	0.0080	0.0060	0.0072	YES	0.0044	0.0044	0.0053	NO
5	0.0086	0.0064	0.0077	YES	0.0050	0.0050	0.0060	NO
4	0.0091	0.0065	0.0079	YES	0.0053	0.0053	0.0063	NO
3	0.0092	0.0054	0.0065	YES	0.0060	0.0056	0.0067	NO
2	0.0045	0.0032	0.0038	YES	0.0045	0.0045	0.0054	NO
1	0.0011	0.0007	0.0009	YES	0.0005	0.0005	0.0006	NO

Torsional irregularity is considered to exist if

TORSIONAL IREGULARITIES EXIST !!!

Notes:
1. The determination of torsional irregularities (plan structural irregularity type 1) and computation of amplification factors for accidental torsion Ax, is conducted according to FEMA's NEHRP Recommended Provitions for Seismic Regulations for New Buildings and other Structures, Provisions and Commentary ed. 1994, 1997, 2000, 2003, which is applicable to the following building codes derived from the above documents: (USA) IBC-2003/6, ASCE 7-05, UBC-97, CBC-2001, (COLOMBIA) NSR-98, and (PANAMA) REP-2004.
2. The top 2 stories are not considered in the evaluation (NEHRP Section 5.2.3.3 Exception 1)

AMPLIFICATION FACTORS ACCIDENTAL TORSION, Ax

	EARTHQUAKE - X				EARTHQUAKE - Y			
Level								
8	23.198	15.610	18.732	1.534	12.923	12.648	15.178	1.000
7	19.100	13.794	16.552	1.331	11.648	11.553	13.863	1.000
6	16.539	11.864	14.237	1.350	10.349	10.269	12.323	1.000
5	13.752	9.765	11.718	1.377	8.798	8.735	10.482	1.000
4	10.740	7.525	9.030	1.415	7.040	6.994	8.393	1.000
3	7.564	4.687	5.625	1.808	5.181	5.129	6.155	1.000
2	2.507	1.818	2.182	1.321	2.405	2.384	2.861	1.000
1	0.390	0.262	0.314	1.544	0.182	0.181	0.217	1.000

Displacement units: cm
Ax = [

NUEVO HOSPITAL DE ZIPAQUIRÁ.

MEMORIAS DE CALCULO

DATOS DE ENTRADA MODELO RCB.

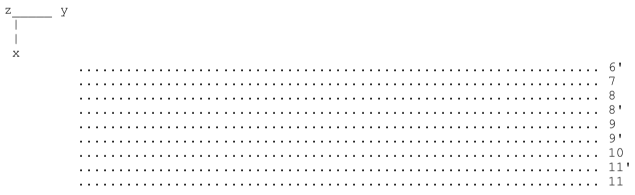
GENERAL INPUT DATA

Structure type: Three-Dimensional Frame/Wall Structure
Architectural grid: Rectangular

AXES INFORMATION

Number of longitudinal axes = 9
Number of transverse axes.. = 33
Number of stories..... = 8

Building total length = 112.95 (m)
Building total width = 24.64 (m)
Building total height = 30.80 (m)



VERTICAL AXES COORDINATES			STORY HEIGHTS	
Axis	X (m)	Y (m)	Story	Height (m)
11-A	21.90	-11.25	1	3.50
11'-A	18.38	-11.25	2	4.90
10-A	16.18	-11.25	3	4.90
9'-A	14.77	-11.25	4	3.50
9-A	11.97	-11.25	5	3.50
8'-A	6.70	-11.25	6	3.50
8-A	3.90	-11.25	7	3.50
7-A	-0.31	-11.25	8	3.50
6'-A	-2.74	-11.25		
11-B	21.90	-5.00		
11'-B	18.38	-5.00		
10-B	16.18	-5.00		
9'-B	14.77	-5.00		
9-B	11.97	-5.00		
8'-B	6.70	-5.00		
8-B	3.90	-5.00		
7-B	-0.31	-5.00		
6'-B	-2.74	-5.00		
11-B'	21.90	-0.05		
11'-B'	18.38	-0.05		
10-B'	16.18	-0.05		
9'-B'	14.77	-0.05		
9-B'	11.97	-0.05		
8'-B'	6.70	-0.05		
8-B'	3.90	-0.05		
7-B'	-0.31	-0.05		
6'-B'	-2.74	-0.05		
11-C	21.90	3.75		
11'-C	18.38	3.75		
10-C	16.18	3.75		
9'-C	14.77	3.75		
9-C	11.97	3.75		
8'-C	6.70	3.75		
8-C	3.90	3.75		
7-C	-0.31	3.75		
6'-C	-2.74	3.75		
11-C1	21.90	7.50		
11'-C1	18.38	7.50		

Axis	X	Y	Story	Height
10-C1	16.18	7.50		
9'-C1	14.77	7.50		
9-C1	11.97	7.50		
8'-C1	6.70	7.50		
8-C1	3.90	7.50		
7-C1	-0.31	7.50		
6'-C1	-2.74	7.50		
11-D	21.90	11.25		
11'-D	18.38	11.25		
10-D	16.18	11.25		
9'-D	14.77	11.25		
9-D	11.97	11.25		
8'-D	6.70	11.25		
8-D	3.90	11.25		
7-D	-0.31	11.25		
6'-D	-2.74	11.25		
11-D1	21.90	15.00		
11'-D1	18.38	15.00		
10-D1	16.18	15.00		
9'-D1	14.77	15.00		
9-D1	11.97	15.00		
8'-D1	6.70	15.00		
8-D1	3.90	15.00		
7-D1	-0.31	15.00		
6'-D1	-2.74	15.00		
11-E	21.90	18.75		
11'-E	18.38	18.75		
10-E	16.18	18.75		
9'-E	14.77	18.75		
9-E	11.97	18.75		
8'-E	6.70	18.75		
8-E	3.90	18.75		
7-E	-0.31	18.75		
6'-E	-2.74	18.75		
11-E'	21.90	23.70		
11'-E'	18.38	23.70		
10-E'	16.18	23.70		
9'-E'	14.77	23.70		
9-E'	11.97	23.70		
8'-E'	6.70	23.70		
8-E'	3.90	23.70		
7-E'	-0.31	23.70		
6'-E'	-2.74	23.70		
11-F	21.90	26.25		
11'-F	18.38	26.25		
10-F	16.18	26.25		
9'-F	14.77	26.25		
9-F	11.97	26.25		
8'-F	6.70	26.25		
8-F	3.90	26.25		
7-F	-0.31	26.25		
6'-F	-2.74	26.25		
11-F1	21.90	28.05		
11'-F1	18.38	28.05		
10-F1	16.18	28.05		
9'-F1	14.77	28.05		
9-F1	11.97	28.05		
8'-F1	6.70	28.05		
8-F1	3.90	28.05		
7-F1	-0.31	28.05		
6'-F1	-2.74	28.05		
11-F2	21.90	30.15		
11'-F2	18.38	30.15		
10-F2	16.18	30.15		
9'-F2	14.77	30.15		
9-F2	11.97	30.15		
8'-F2	6.70	30.15		
8-F2	3.90	30.15		
7-F2	-0.31	30.15		
6'-F2	-2.74	30.15		
11-F3	21.90	32.25		
11'-F3	18.38	32.25		
10-F3	16.18	32.25		
9'-F3	14.77	32.25		
9-F3	11.97	32.25		

Axis	X	Y	Story	Height
8'-F3	6.70	32.25		
8-F3	3.90	32.25		
7-F3	-0.31	32.25		
6'-F3	-2.74	32.25		
11-G	21.90	34.45		
11'-G	18.38	34.45		
10-G	16.18	34.45		
9'-G	14.77	34.45		
9-G	11.97	34.45		
8'-G	6.70	34.45		
8-G	3.90	34.45		
7-G	-0.31	34.45		
6'-G	-2.74	34.45		
11-G'	21.90	38.05		
11'-G'	18.38	38.05		
10-G'	16.18	38.05		
9'-G'	14.77	38.05		
9-G'	11.97	38.05		
8'-G'	6.70	38.05		
8-G'	3.90	38.05		
7-G'	-0.31	38.05		
6'-G'	-2.74	38.05		
11-H	21.90	41.65		
11'-H	18.38	41.65		
10-H	16.18	41.65		
9'-H	14.77	41.65		
9-H	11.97	41.65		
8'-H	6.70	41.65		
8-H	3.90	41.65		
7-H	-0.31	41.65		
6'-H	-2.74	41.65		
11-H1	21.90	45.20		
11'-H1	18.38	45.20		
10-H1	16.18	45.20		
9'-H1	14.77	45.20		
9-H1	11.97	45.20		
8'-H1	6.70	45.20		
8-H1	3.90	45.20		
7-H1	-0.31	45.20		
6'-H1	-2.74	45.20		
11-I	21.90	48.75		
11'-I	18.38	48.75		
10-I	16.18	48.75		
9'-I	14.77	48.75		
9-I	11.97	48.75		
8'-I	6.70	48.75		
8-I	3.90	48.75		
7-I	-0.31	48.75		
6'-I	-2.74	48.75		
11-I1	21.90	52.70		
11'-I1	18.38	52.70		
10-I1	16.18	52.70		
9'-I1	14.77	52.70		
9-I1	11.97	52.70		
8'-I1	6.70	52.70		
8-I1	3.90	52.70		
7-I1	-0.31	52.70		
6'-I1	-2.74	52.70		
11-J	21.90	56.25		
11'-J	18.38	56.25		
10-J	16.18	56.25		
9'-J	14.77	56.25		
9-J	11.97	56.25		
8'-J	6.70	56.25		
8-J	3.90	56.25		
7-J	-0.31	56.25		
6'-J	-2.74	56.25		
11-J1	21.90	60.00		
11'-J1	18.38	60.00		
10-J1	16.18	60.00		
9'-J1	14.77	60.00		
9-J1	11.97	60.00		
8'-J1	6.70	60.00		
8-J1	3.90	60.00		
7-J1	-0.31	60.00		

Axis	X	Y	Story	Height
6'-J1	-2.74	60.00		
11-K	21.90	63.75		
11'-K	18.38	63.75		
10-K	16.18	63.75		
9'-K	14.77	63.75		
9-K	11.97	63.75		
8'-K	6.70	63.75		
8-K	3.90	63.75		
7-K	-0.31	63.75		
6'-K	-2.74	63.75		
11-K1	21.90	67.50		
11'-K1	18.38	67.50		
10-K1	16.18	67.50		
9'-K1	14.77	67.50		
9-K1	11.97	67.50		
8'-K1	6.70	67.50		
8-K1	3.90	67.50		
7-K1	-0.31	67.50		
6'-K1	-2.74	67.50		
11-L	21.90	71.25		
11'-L	18.38	71.25		
10-L	16.18	71.25		
9'-L	14.77	71.25		
9-L	11.97	71.25		
8'-L	6.70	71.25		
8-L	3.90	71.25		
7-L	-0.31	71.25		
6'-L	-2.74	71.25		
11-L1	21.90	75.00		
11'-L1	18.38	75.00		
10-L1	16.18	75.00		
9'-L1	14.77	75.00		
9-L1	11.97	75.00		
8'-L1	6.70	75.00		
8-L1	3.90	75.00		
7-L1	-0.31	75.00		
6'-L1	-2.74	75.00		
11-M	21.90	78.75		
11'-M	18.38	78.75		
10-M	16.18	78.75		
9'-M	14.77	78.75		
9-M	11.97	78.75		
8'-M	6.70	78.75		
8-M	3.90	78.75		
7-M	-0.31	78.75		
6'-M	-2.74	78.75		
11-M1	21.90	82.50		
11'-M1	18.38	82.50		
10-M1	16.18	82.50		
9'-M1	14.77	82.50		
9-M1	11.97	82.50		
8'-M1	6.70	82.50		
8-M1	3.90	82.50		
7-M1	-0.31	82.50		
6'-M1	-2.74	82.50		
11-N	21.90	86.25		
11'-N	18.38	86.25		
10-N	16.18	86.25		
9'-N	14.77	86.25		
9-N	11.97	86.25		
8'-N	6.70	86.25		
8-N	3.90	86.25		
7-N	-0.31	86.25		
6'-N	-2.74	86.25		
11-N1	21.90	89.98		
11'-N1	18.38	89.98		
10-N1	16.18	89.98		
9'-N1	14.77	89.98		
9-N1	11.97	89.98		
8'-N1	6.70	89.98		
8-N1	3.90	89.98		
7-N1	-0.31	89.98		
6'-N1	-2.74	89.98		
11-O	21.90	93.01		
11'-O	18.38	93.01		

Axis	X	Y	Story	Height
10-O	16.18	93.01		
9'-O	14.77	93.01		
9-O	11.97	93.01		
8'-O	6.70	93.01		
8-O	3.90	93.01		
7-O	-0.31	93.01		
6'-O	-2.74	93.01		
11-O1	21.90	95.90		
11'-O1	18.38	95.90		
10-O1	16.18	95.90		
9'-O1	14.77	95.90		
9-O1	11.97	95.90		
8'-O1	6.70	95.90		
8-O1	3.90	95.90		
7-O1	-0.31	95.90		
6'-O1	-2.74	95.90		
11-O2	21.90	98.80		
11'-O2	18.38	98.80		
10-O2	16.18	98.80		
9'-O2	14.77	98.80		
9-O2	11.97	98.80		
8'-O2	6.70	98.80		
8-O2	3.90	98.80		
7-O2	-0.31	98.80		
6'-O2	-2.74	98.80		
11-P	21.90	101.70		
11'-P	18.38	101.70		
10-P	16.18	101.70		
9'-P	14.77	101.70		
9-P	11.97	101.70		
8'-P	6.70	101.70		
8-P	3.90	101.70		
7-P	-0.31	101.70		
6'-P	-2.74	101.70		

MATERIALS

Number of materials = 4

STRUCTURAL STEEL

Mat	Name	Fy Kg/cm2	Fbmaj Kg/cm2	Fbmin Kg/cm2	E Kg/cm2	G Kg/cm2	w Kg/m3
4	ASTM A50	3500	2310	2310	2030000	805000	7840.0

REINFORCED CONCRETE

Mat	Name	f'c Kg/cm2	fy Kg/cm2	fys1 Kg/cm2	fys2 Kg/cm2	E Kg/cm2	G Kg/cm2	w Kg/m3
1	RConcrete1	210	4200	4200	4200	188370	75320	2400.0
2	RConcrete2	280	4200	4200	4200	217560	87010	2400.0
3	fc5000	350	4200	4200	4200	243200	97000	2400.0

MEMBER DATA

Total number of members..... = 1797
Number of columns..... = 205
Number of beams ..... = 1592
Number of braces ..... = 0

COLUMN SECTIONS

Number of prismatic sections = 6

Sec	Name	Shape	b (cm)	h (cm)	tw (cm)	tf (cm)	P1 (cm)	P2 (cm)	A (cm2)	I2 (cm4)	I3 (cm4)	J (cm4)
1	R180X50	Rectang	180.00	50.00	-	-	-	-	9000.0	1875000	24300000	6187500
2	d90	Oval	90.00	90.00	-	-	-	-	6362.0	3220621	3220621	6441241
3	d50	Oval	50.00	50.00	-	-	-	-	1963.0	306796	306796	613592
4	R45X45	Rectang	45.00	45.00	-	-	-	-	2025.0	341719	341719	505744
5	IPE500	I	20.00	50.00	1.02	1.60	0.00	-	111.7	46207	2137	71
6	R360X40	Rectang	360.00	40.00	-	-	-	-	14400.0	1920000	155520000	7142400

COLUMNS

Column	Story	L (m)	Lu (m)	a (m)	c (m)	Theta (o)	Sec -	Mat -	System -
8-O	S	3.50	2.88	0.00	0.63	0.0	4	2	G&L
9-O	S	3.50	2.88	0.00	0.63	0.0	4	2	G&L
10-O	S	3.50	3.15	0.00	0.35	0.0	3	2	G&L
8-N	2	4.90	4.20	0.08	0.63	0.0	1	2	G&L
8-N	1	4.90	4.20	0.08	0.63	0.0	1	2	G&L
8-N	S	3.50	2.88	0.00	0.63	0.0	1	2	G&L
9-N	2	4.90	4.20	0.08	0.63	0.0	6	2	G&L
9-N	1	4.90	4.20	0.08	0.63	0.0	6	2	G&L
9-N	S	3.50	2.88	0.00	0.63	0.0	6	2	G&L
10-N	2	4.90	4.20	0.08	0.63	0.0	3	2	G&L
10-N	1	4.90	3.93	0.35	0.63	0.0	3	2	G&L
10-N	S	3.50	3.15	0.00	0.35	0.0	3	2	G&L
7-M	7	3.50	2.83	0.25	0.43	0.0	5	4	G&L
7-M	6	3.50	3.00	0.25	0.25	0.0	5	4	G&L
7-M	5	3.50	3.00	0.25	0.25	0.0	5	4	G&L
7-M	4	3.50	3.00	0.25	0.25	0.0	5	4	G&L
7-M	3	3.50	3.18	0.08	0.25	0.0	5	4	G&L
8-M	7	3.50	2.83	0.25	0.43	0.0	5	4	G&L
8-M	6	3.50	3.00	0.25	0.25	0.0	5	4	G&L
8-M	5	3.50	3.00	0.25	0.25	0.0	5	4	G&L
8-M	4	3.50	3.00	0.25	0.25	0.0	5	4	G&L
8-M	3	3.50	3.18	0.08	0.25	0.0	5	4	G&L
8-M	2	4.90	4.20	0.08	0.63	0.0	1	2	G&L
8-M	1	4.90	4.20	0.08	0.63	0.0	1	2	G&L
8-M	S	3.50	2.88	0.00	0.63	0.0	1	2	G&L
9-M	7	3.50	2.83	0.25	0.43	0.0	5	4	G&L
9-M	6	3.50	3.00	0.25	0.25	0.0	5	4	G&L
9-M	5	3.50	3.00	0.25	0.25	0.0	5	4	G&L
9-M	4	3.50	3.00	0.25	0.25	0.0	5	4	G&L
9-M	3	3.50	3.18	0.08	0.25	0.0	5	4	G&L
9-M	2	4.90	4.20	0.08	0.63	0.0	1	2	G&L
9-M	1	4.90	4.20	0.08	0.63	0.0	1	2	G&L
9-M	S	3.50	2.88	0.00	0.63	0.0	1	2	G&L
10-M	7	3.50	2.83	0.25	0.43	0.0	5	4	G&L
10-M	6	3.50	3.00	0.25	0.25	0.0	5	4	G&L
10-M	5	3.50	3.00	0.25	0.25	0.0	5	4	G&L

Column	Story	L	Lu	a	c	Theta	Sec	Mat	System
10-M	4	3.50	3.00	0.25	0.25	0.0	5	4	G&L
10-M	3	3.50	3.18	0.08	0.25	0.0	5	4	G&L
10-M	2	4.90	4.20	0.08	0.63	0.0	3	2	G&L
10-M	1	4.90	3.93	0.35	0.63	0.0	3	2	G&L
10-M	S	3.50	3.15	0.00	0.35	0.0	3	2	G&L
8-L	7	3.50	3.00	0.08	0.43	0.0	1	2	G&L
8-L	6	3.50	2.80	0.08	0.63	0.0	1	2	G&L
8-L	5	3.50	2.80	0.08	0.63	0.0	1	2	G&L
8-L	4	3.50	2.80	0.08	0.63	0.0	1	2	G&L
8-L	3	3.50	2.80	0.08	0.63	0.0	1	2	G&L
8-L	2	4.90	4.20	0.08	0.63	0.0	1	2	G&L
8-L	1	4.90	4.20	0.08	0.63	0.0	1	2	G&L
8-L	S	3.50	2.88	0.00	0.63	0.0	1	2	G&L
9-L	7	3.50	3.00	0.08	0.43	0.0	6	2	G&L
9-L	6	3.50	2.80	0.08	0.63	0.0	6	2	G&L
9-L	5	3.50	2.80	0.08	0.63	0.0	6	2	G&L
9-L	4	3.50	2.80	0.08	0.63	0.0	6	2	G&L
9-L	3	3.50	2.80	0.08	0.63	0.0	6	2	G&L
9-L	2	4.90	4.20	0.08	0.63	0.0	6	2	G&L
9-L	1	4.90	4.20	0.08	0.63	0.0	6	2	G&L
9-L	S	3.50	2.88	0.00	0.63	0.0	6	2	G&L
10-L	2	4.90	4.20	0.08	0.63	0.0	3	2	G&L
10-L	1	4.90	3.93	0.35	0.63	0.0	3	2	G&L
10-L	S	3.50	3.15	0.00	0.35	0.0	3	2	G&L
8-K	7	3.50	3.00	0.08	0.43	0.0	1	2	G&L
8-K	6	3.50	2.80	0.08	0.63	0.0	1	2	G&L
8-K	5	3.50	2.80	0.08	0.63	0.0	1	2	G&L
8-K	4	3.50	2.80	0.08	0.63	0.0	1	2	G&L
8-K	3	3.50	2.80	0.08	0.63	0.0	1	2	G&L
8-K	2	4.90	4.20	0.08	0.63	0.0	1	2	G&L
8-K	1	4.90	4.20	0.08	0.63	0.0	1	2	G&L
8-K	S	3.50	2.88	0.00	0.63	0.0	1	2	G&L
9-K	7	3.50	3.00	0.08	0.43	0.0	1	2	G&L
9-K	6	3.50	2.80	0.08	0.63	0.0	1	2	G&L
9-K	5	3.50	2.80	0.08	0.63	0.0	1	2	G&L
9-K	4	3.50	2.80	0.08	0.63	0.0	1	2	G&L
9-K	3	3.50	2.80	0.08	0.63	0.0	1	2	G&L
9-K	2	4.90	4.20	0.08	0.63	0.0	1	2	G&L
9-K	1	4.90	4.20	0.08	0.63	0.0	1	2	G&L
9-K	S	3.50	2.88	0.00	0.63	0.0	1	2	G&L
10-K	2	4.90	4.20	0.08	0.63	0.0	3	2	G&L
10-K	1	4.90	3.93	0.35	0.63	0.0	3	2	G&L
10-K	S	3.50	3.15	0.00	0.35	0.0	3	2	G&L
8-J	7	3.50	3.00	0.08	0.43	0.0	1	2	G&L
8-J	6	3.50	2.80	0.08	0.63	0.0	1	2	G&L
8-J	5	3.50	2.80	0.08	0.63	0.0	1	2	G&L
8-J	4	3.50	2.80	0.08	0.63	0.0	1	2	G&L
8-J	3	3.50	2.80	0.08	0.63	0.0	1	2	G&L
8-J	2	4.90	4.20	0.08	0.63	0.0	1	2	G&L
8-J	1	4.90	4.20	0.08	0.63	0.0	1	2	G&L
8-J	S	3.50	2.88	0.00	0.63	0.0	1	2	G&L
9-J	7	3.50	3.00	0.08	0.43	0.0	1	2	G&L
9-J	6	3.50	2.80	0.08	0.63	0.0	1	2	G&L
9-J	5	3.50	2.80	0.08	0.63	0.0	1	2	G&L
9-J	4	3.50	2.80	0.08	0.63	0.0	1	2	G&L
9-J	3	3.50	2.80	0.08	0.63	0.0	1	2	G&L
9-J	2	4.90	4.20	0.08	0.63	0.0	1	2	G&L
9-J	1	4.90	4.20	0.08	0.63	0.0	1	2	G&L
9-J	S	3.50	2.88	0.00	0.63	0.0	1	2	G&L
10-J	2	4.90	4.20	0.35	0.35	0.0	3	2	G&L
10-J	1	4.90	4.20	0.35	0.35	0.0	3	2	G&L
10-J	S	3.50	3.15	0.00	0.35	0.0	3	2	G&L
8-I	7	3.50	3.00	0.08	0.43	0.0	1	2	G&L
8-I	6	3.50	2.80	0.08	0.63	0.0	1	2	G&L
8-I	5	3.50	2.80	0.08	0.63	0.0	1	2	G&L

Column	Story	L	Lu	a	c	Theta	Sec	Mat	System
8-I	4	3.50	2.80	0.08	0.63	0.0	1	2	G&L
8-I	3	3.50	2.80	0.08	0.63	0.0	1	2	G&L
8-I	2	4.90	4.20	0.08	0.63	0.0	1	2	G&L
8-I	1	4.90	4.20	0.08	0.63	0.0	1	2	G&L
8-I	S	3.50	2.88	0.00	0.63	0.0	1	2	G&L
9-I	7	3.50	3.00	0.08	0.43	0.0	1	2	G&L
9-I	6	3.50	2.80	0.08	0.63	0.0	1	2	G&L
9-I	5	3.50	2.80	0.08	0.63	0.0	1	2	G&L
9-I	4	3.50	2.80	0.08	0.63	0.0	1	2	G&L
9-I	3	3.50	2.80	0.08	0.63	0.0	1	2	G&L
9-I	2	4.90	4.20	0.08	0.63	0.0	1	2	G&L
9-I	1	4.90	4.20	0.08	0.63	0.0	1	2	G&L
9-I	S	3.50	2.88	0.00	0.63	0.0	1	2	G&L
10-I	2	4.90	4.20	0.35	0.35	0.0	4	2	G&L
10-I	1	4.90	4.20	0.35	0.35	0.0	4	2	G&L
10-I	S	3.50	3.15	0.00	0.35	0.0	4	2	G&L
8-H	7	3.50	3.00	0.08	0.43	0.0	1	2	G&L
8-H	6	3.50	2.80	0.08	0.63	0.0	1	2	G&L
8-H	5	3.50	2.80	0.08	0.63	0.0	1	2	G&L
8-H	4	3.50	2.80	0.08	0.63	0.0	1	2	G&L
8-H	3	3.50	2.80	0.08	0.63	0.0	1	2	G&L
8-H	2	4.90	4.20	0.08	0.63	0.0	1	2	G&L
8-H	1	4.90	4.20	0.08	0.63	0.0	1	2	G&L
8-H	S	3.50	2.88	0.00	0.63	0.0	1	2	G&L
9-H	7	3.50	3.00	0.08	0.43	0.0	1	2	G&L
9-H	6	3.50	2.80	0.08	0.63	0.0	1	2	G&L
9-H	5	3.50	2.80	0.08	0.63	0.0	1	2	G&L
9-H	4	3.50	2.80	0.08	0.63	0.0	1	2	G&L
9-H	3	3.50	2.80	0.08	0.63	0.0	1	2	G&L
9-H	2	4.90	4.20	0.08	0.63	0.0	1	2	G&L
9-H	1	4.90	4.20	0.08	0.63	0.0	1	2	G&L
9-H	S	3.50	2.88	0.00	0.63	0.0	1	2	G&L
8-E	7	3.50	3.00	0.08	0.43	0.0	1	2	G&L
8-E	6	3.50	2.80	0.08	0.63	0.0	1	2	G&L
8-E	5	3.50	2.80	0.08	0.63	0.0	1	2	G&L
8-E	4	3.50	2.80	0.08	0.63	0.0	1	2	G&L
8-E	3	3.50	2.53	0.35	0.63	0.0	1	2	G&L
8-E	2	4.90	4.55	0.00	0.35	0.0	2	3	G&L
8-E	1	4.90	4.83	0.08	0.00	0.0	2	3	G&L
8-E	S	3.50	2.88	0.00	0.63	0.0	2	3	G&L
9-E	7	3.50	3.00	0.08	0.43	0.0	1	2	G&L
9-E	6	3.50	2.80	0.08	0.63	0.0	1	2	G&L
9-E	5	3.50	2.80	0.08	0.63	0.0	1	2	G&L
9-E	4	3.50	2.80	0.08	0.63	0.0	1	2	G&L
9-E	3	3.50	2.53	0.35	0.63	0.0	1	2	G&L
9-E	2	4.90	4.55	0.00	0.35	0.0	2	3	G&L
9-E	1	4.90	4.83	0.08	0.00	0.0	2	3	G&L
9-E	S	3.50	2.88	0.00	0.63	0.0	2	3	G&L
8-D	7	3.50	3.00	0.08	0.43	0.0	1	2	G&L
8-D	6	3.50	2.80	0.08	0.63	0.0	1	2	G&L
8-D	5	3.50	2.80	0.08	0.63	0.0	1	2	G&L
8-D	4	3.50	2.80	0.08	0.63	0.0	1	2	G&L
8-D	3	3.50	2.53	0.35	0.63	0.0	1	2	G&L
8-D	2	4.90	4.55	0.00	0.35	0.0	2	3	G&L
8-D	1	4.90	4.83	0.08	0.00	0.0	2	3	G&L
8-D	S	3.50	2.88	0.00	0.63	0.0	2	3	G&L
9-D	7	3.50	3.00	0.08	0.43	0.0	1	2	G&L
9-D	6	3.50	2.80	0.08	0.63	0.0	1	2	G&L
9-D	5	3.50	2.80	0.08	0.63	0.0	1	2	G&L
9-D	4	3.50	2.80	0.08	0.63	0.0	1	2	G&L
9-D	3	3.50	2.53	0.35	0.63	0.0	1	2	G&L
9-D	2	4.90	4.55	0.00	0.35	0.0	2	3	G&L
9-D	1	4.90	4.83	0.08	0.00	0.0	2	3	G&L
9-D	S	3.50	2.88	0.00	0.63	0.0	2	3	G&L
8-C	7	3.50	3.00	0.08	0.43	0.0	1	2	G&L
8-C	6	3.50	2.80	0.08	0.63	0.0	1	2	G&L

Column	Story	L	Lu	a	c	Theta	Sec	Mat	System
8-C	5	3.50	2.80	0.08	0.63	0.0	1	2	G&L
8-C	4	3.50	2.80	0.08	0.63	0.0	1	2	G&L
8-C	3	3.50	2.53	0.35	0.63	0.0	1	2	G&L
8-C	2	4.90	4.55	0.00	0.35	0.0	2	3	G&L
8-C	1	4.90	4.83	0.08	0.00	0.0	2	3	G&L
8-C	S	3.50	2.88	0.00	0.63	0.0	2	3	G&L
9-C	7	3.50	2.73	0.35	0.43	0.0	6	2	G&L
9-C	6	3.50	2.80	0.35	0.35	0.0	6	2	G&L
9-C	5	3.50	2.80	0.35	0.35	0.0	6	2	G&L
9-C	4	3.50	2.80	0.35	0.35	0.0	6	2	G&L
9-C	3	3.50	2.80	0.35	0.35	0.0	6	2	G&L
9-C	2	4.90	4.55	0.00	0.35	0.0	6	2	G&L
9-C	1	4.90	4.83	0.08	0.00	0.0	6	2	G&L
9-C	S	3.50	2.88	0.00	0.63	0.0	6	2	G&L
7-B	7	3.50	3.00	0.25	0.25	0.0	5	4	G&L
7-B	6	3.50	3.00	0.25	0.25	0.0	5	4	G&L
7-B	5	3.50	3.00	0.25	0.25	0.0	5	4	G&L
7-B	4	3.50	3.00	0.25	0.25	0.0	5	4	G&L
7-B	3	3.50	3.00	0.25	0.25	0.0	5	4	G&L
7-B	2	4.90	4.40	0.25	0.25	0.0	5	4	G&L
8-B	7	3.50	2.83	0.25	0.43	0.0	5	4	G&L
8-B	6	3.50	3.00	0.25	0.25	0.0	5	4	G&L
8-B	5	3.50	3.00	0.25	0.25	0.0	5	4	G&L
8-B	4	3.50	3.00	0.25	0.25	0.0	5	4	G&L
8-B	3	3.50	3.00	0.25	0.25	0.0	5	4	G&L
8-B	2	4.90	4.40	0.25	0.25	0.0	5	4	G&L
9-B	7	3.50	2.83	0.25	0.43	0.0	5	4	G&L
9-B	6	3.50	3.00	0.25	0.25	0.0	5	4	G&L
9-B	5	3.50	3.00	0.25	0.25	0.0	5	4	G&L
9-B	4	3.50	3.00	0.25	0.25	0.0	5	4	G&L
9-B	3	3.50	3.00	0.25	0.25	0.0	5	4	G&L
9-B	2	4.90	4.40	0.25	0.25	0.0	5	4	G&L
10-B	7	3.50	3.00	0.25	0.25	0.0	5	4	G&L
10-B	6	3.50	3.00	0.25	0.25	0.0	5	4	G&L
10-B	5	3.50	3.00	0.25	0.25	0.0	5	4	G&L
10-B	4	3.50	3.00	0.25	0.25	0.0	5	4	G&L
10-B	3	3.50	3.00	0.25	0.25	0.0	5	4	G&L
10-B	2	4.90	4.40	0.25	0.25	0.0	5	4	G&L

BEAM SECTIONS

Number of prismatic sections = 8

Sec	Name	Shape	b (cm)	h (cm)	tw (cm)	tf (cm)	P1 (cm)	P2 (cm)	A (cm2)	I2 (cm4)	I3 (cm4)	J (cm4)
1	S50X50	Rectang	50.00	50.00	-	-	-	-	2500.0	520833	520833	770833
2	S50X70	Rectang	50.00	70.00	-	-	-	-	3500.0	1429167	729167	1604167
3	S40X70	Rectang	40.00	70.00	-	-	-	-	2800.0	1143333	373333	955733
4	S25X70	Rectang	25.00	70.00	-	-	-	-	1750.0	714583	91146	282552
5	IPE300	I	15.00	30.00	0.71	1.07	0.00	-	51.9	7999	603	16
6	IPE500	I	20.00	50.00	1.02	1.60	0.00	-	111.7	46207	2137	71
7	S30X70	Rectang	30.00	70.00	-	-	-	-	2100.0	857500	157500	459900
8	S50X100	Rectang	50.00	100.00	-	-	-	-	5000.0	4166667	1041667	2854167

BEAMS

Beam	Floor	L (m)	Lu (m)	a (m)	c (m)	Sec -	Mat -	System -
10(D-D1)	1	3.75	3.75	0.00	0.00	2	2	G&L
10(D1-E)	1	3.75	3.50	0.00	0.25	2	2	G&L
10(E-E')	1	3.75	3.50	0.25	0.00	2	2	G&L

Beam	Floor	L	Lu	a	c	Sec	Mat	System
10(E'-F)	1	3.75	3.75	0.00	0.00	2	2	G&L
10(I-I1)	1	3.95	3.73	0.23	0.00	2	2	G&L
10(I1-J)	1	3.55	3.30	0.00	0.25	2	2	G&L
10(J-J1)	1	3.75	3.50	0.25	0.00	2	2	G&L
10(J1-K)	1	3.75	3.50	0.00	0.25	2	2	G&L
10(K-K1)	1	3.75	3.50	0.25	0.00	2	2	G&L
10(K1-L)	1	3.75	3.50	0.00	0.25	2	2	G&L
10(L-L1)	1	3.75	3.50	0.25	0.00	2	2	G&L
10(L1-M)	1	3.75	3.50	0.00	0.25	2	2	G&L
10(M-M1)	1	3.75	3.50	0.25	0.00	2	2	G&L
10(M1-N)	1	3.75	3.50	0.00	0.25	2	2	G&L
10(N-N1)	1	3.73	3.48	0.25	0.00	2	2	G&L
10(N1-O)	1	3.03	2.78	0.00	0.25	2	2	G&L
10(O-O1)	1	2.89	2.64	0.25	0.00	2	2	G&L
10(O1-O2)	1	2.90	2.90	0.00	0.00	2	2	G&L
10(O2-P)	1	2.90	2.90	0.00	0.00	2	2	G&L
9'(F-F1)	1	1.80	1.80	0.00	0.00	4	2	G&L
9'(F1-F2)	1	2.10	2.10	0.00	0.00	4	2	G&L
9'(F2-F3)	1	2.10	2.10	0.00	0.00	4	2	G&L
9'(F3-G)	1	2.20	2.20	0.00	0.00	4	2	G&L
9(B'-C)	1	3.80	3.60	0.00	0.20	2	2	G&L
9(C-C1)	1	3.75	3.55	0.20	0.00	2	2	G&L
9(C1-D)	1	3.75	3.30	0.00	0.45	2	2	G&L
9(D-D1)	1	3.75	3.30	0.45	0.00	2	2	G&L
9(D1-E)	1	3.75	3.30	0.00	0.45	2	2	G&L
9(E-E')	1	3.75	3.30	0.45	0.00	2	2	G&L
9(E'-F)	1	3.75	3.75	0.00	0.00	2	2	G&L
9(F-F1)	1	1.80	1.80	0.00	0.00	2	2	G&L
9(F1-F2)	1	2.10	2.10	0.00	0.00	2	2	G&L
9(F2-F3)	1	2.10	2.10	0.00	0.00	2	2	G&L
9(F3-G)	1	2.20	2.20	0.00	0.00	2	2	G&L
9(G-G')	1	3.60	3.60	0.00	0.00	2	2	G&L
9(G'-H)	1	3.60	3.35	0.00	0.25	2	2	G&L
9(H-H1)	1	3.55	3.30	0.25	0.00	2	2	G&L
9(H1-I)	1	3.55	3.30	0.00	0.25	2	2	G&L
9(I-I1)	1	3.95	3.70	0.25	0.00	2	2	G&L
9(I1-J)	1	3.55	3.30	0.00	0.25	2	2	G&L
9(J-J1)	1	3.75	3.50	0.25	0.00	2	2	G&L
9(J1-K)	1	3.75	3.50	0.00	0.25	2	2	G&L
9(K-K1)	1	3.75	3.50	0.25	0.00	2	2	G&L
9(K1-L)	1	3.75	3.55	0.00	0.20	2	2	G&L
9(L-L1)	1	3.75	3.55	0.20	0.00	2	2	G&L
9(L1-M)	1	3.75	3.50	0.00	0.25	2	2	G&L
9(M-M1)	1	3.75	3.50	0.25	0.00	2	2	G&L
9(M1-N)	1	3.75	3.55	0.00	0.20	2	2	G&L
9(N-N1)	1	3.73	3.53	0.20	0.00	2	2	G&L
9(N1-O)	1	3.03	2.81	0.00	0.23	2	2	G&L
9(O-O1)	1	2.89	2.66	0.23	0.00	2	2	G&L
9(O1-O2)	1	2.90	2.90	0.00	0.00	2	2	G&L
9(O2-P)	1	2.90	2.90	0.00	0.00	2	2	G&L
8'(F-F1)	1	1.80	1.80	0.00	0.00	3	2	G&L
8'(F1-F2)	1	2.10	2.10	0.00	0.00	3	2	G&L
8'(F2-F3)	1	2.10	2.10	0.00	0.00	3	2	G&L
8'(F3-G)	1	2.20	2.20	0.00	0.00	3	2	G&L
8(B'-C)	1	3.80	3.35	0.00	0.45	2	2	G&L
8(C-C1)	1	3.75	3.30	0.45	0.00	2	2	G&L
8(C1-D)	1	3.75	3.30	0.00	0.45	2	2	G&L
8(D-D1)	1	3.75	3.30	0.45	0.00	2	2	G&L
8(D1-E)	1	3.75	3.30	0.00	0.45	2	2	G&L
8(E-E')	1	3.75	3.30	0.45	0.00	2	2	G&L
8(E'-F)	1	3.75	3.75	0.00	0.00	2	2	G&L
8(F-F1)	1	1.80	1.80	0.00	0.00	2	2	G&L
8(F1-F2)	1	2.10	2.10	0.00	0.00	2	2	G&L
8(F2-F3)	1	2.10	2.10	0.00	0.00	2	2	G&L
8(F3-G)	1	2.20	2.20	0.00	0.00	2	2	G&L
8(G-G')	1	3.60	3.60	0.00	0.00	2	2	G&L
8(G'-H)	1	3.60	3.35	0.00	0.25	2	2	G&L
8(H-H1)	1	3.55	3.30	0.25	0.00	2	2	G&L
8(H1-I)	1	3.55	3.30	0.00	0.25	2	2	G&L
8(I-I1)	1	3.95	3.70	0.25	0.00	2	2	G&L
8(I1-J)	1	3.55	3.30	0.00	0.25	2	2	G&L
8(J-J1)	1	3.75	3.50	0.25	0.00	2	2	G&L
8(J1-K)	1	3.75	3.50	0.00	0.25	2	2	G&L
8(K-K1)	1	3.75	3.50	0.25	0.00	2	2	G&L
8(K1-L)	1	3.75	3.50	0.00	0.25	2	2	G&L

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Engineer: RODRIGO CASTRO S
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Beam	Floor	L	Lu	a	c	Sec	Mat	System
8(L-L1)	1	3.75	3.50	0.25	0.00	2	2	G&L
8(L1-M)	1	3.75	3.50	0.00	0.25	2	2	G&L
8(M-M1)	1	3.75	3.50	0.25	0.00	2	2	G&L
8(M1-N)	1	3.75	3.50	0.00	0.25	2	2	G&L
8(N-N1)	1	3.73	3.48	0.25	0.00	2	2	G&L
8(N1-O)	1	3.03	2.81	0.00	0.23	2	2	G&L
8(O-O1)	1	2.89	2.66	0.23	0.00	2	2	G&L
8(O1-O2)	1	2.90	2.90	0.00	0.00	2	2	G&L
8(O2-P)	1	2.90	2.90	0.00	0.00	2	2	G&L
7(D-D1)	1	3.75	3.75	0.00	0.00	2	2	G
7(D1-E)	1	3.75	3.50	0.00	0.25	2	2	G
7(E-E')	1	3.75	3.50	0.25	0.00	2	2	G
7(E'-F)	1	3.75	3.75	0.00	0.00	2	2	G
7(I-I1)	1	3.95	3.95	0.00	0.00	2	2	G
7(I1-J)	1	3.55	3.30	0.00	0.25	2	2	G
7(J-J1)	1	3.75	3.50	0.25	0.00	2	2	G
7(J1-K)	1	3.75	3.50	0.00	0.25	2	2	G
7(K-K1)	1	3.75	3.50	0.25	0.00	2	2	G
7(K1-L)	1	3.75	3.50	0.00	0.25	2	2	G
7(L-L1)	1	3.75	3.50	0.25	0.00	2	2	G
7(L1-M)	1	3.75	3.50	0.00	0.25	2	2	G
7(M-M1)	1	3.75	3.50	0.25	0.00	2	2	G
7(M1-N)	1	3.75	3.50	0.00	0.25	2	2	G
7(N-N1)	1	3.73	3.48	0.25	0.00	2	2	G
7(N1-O)	1	3.03	2.78	0.00	0.25	2	2	G
7(O-O1)	1	2.89	2.64	0.25	0.00	2	2	G
7(O1-O2)	1	2.90	2.90	0.00	0.00	2	2	G
7(O2-P)	1	2.90	2.90	0.00	0.00	2	2	G
10(I-I1)	2	3.95	3.73	0.23	0.00	2	2	G&L
10(I1-J)	2	3.55	3.30	0.00	0.25	2	2	G&L
10(J-J1)	2	3.75	3.50	0.25	0.00	2	2	G&L
10(J1-K)	2	3.75	3.50	0.00	0.25	2	2	G&L
10(K-K1)	2	3.75	3.50	0.25	0.00	2	2	G&L
10(K1-L)	2	3.75	3.50	0.00	0.25	2	2	G&L
10(L-L1)	2	3.75	3.50	0.25	0.00	2	2	G&L
10(L1-M)	2	3.75	3.50	0.00	0.25	2	2	G&L
10(M-M1)	2	3.75	3.50	0.25	0.00	2	2	G&L
10(M1-N)	2	3.75	3.50	0.00	0.25	2	2	G&L
9'(E'-F)	2	2.55	2.55	0.00	0.00	4	2	G&L
9'(F-F1)	2	1.80	1.80	0.00	0.00	4	2	G&L
9'(F1-F2)	2	2.10	2.10	0.00	0.00	4	2	G&L
9'(F2-F3)	2	2.10	2.10	0.00	0.00	4	2	G&L
9'(F3-G)	2	2.20	2.20	0.00	0.00	4	2	G&L
9(E'-F)	2	2.55	2.55	0.00	0.00	2	2	G&L
9(F-F1)	2	1.80	1.80	0.00	0.00	2	2	G&L
9(F1-F2)	2	2.10	2.10	0.00	0.00	2	2	G&L
9(F2-F3)	2	2.10	2.10	0.00	0.00	2	2	G&L
9(F3-G)	2	2.20	2.20	0.00	0.00	2	2	G&L
9(G-G')	2	3.60	3.60	0.00	0.00	2	2	G&L
9(G'-H)	2	3.60	3.35	0.00	0.25	2	2	G&L
9(H-H1)	2	3.55	3.30	0.25	0.00	2	2	G&L
9(H1-I)	2	3.55	3.30	0.00	0.25	2	2	G&L
9(I-I1)	2	3.95	3.70	0.25	0.00	2	2	G&L
9(I1-J)	2	3.55	3.30	0.00	0.25	2	2	G&L
9(J-J1)	2	3.75	3.50	0.25	0.00	2	2	G&L
9(J1-K)	2	3.75	3.50	0.00	0.25	2	2	G&L
9(K-K1)	2	3.75	3.50	0.25	0.00	2	2	G&L
9(K1-L)	2	3.75	3.55	0.00	0.20	2	2	G&L
9(L-L1)	2	3.75	3.55	0.20	0.00	2	2	G&L
9(L1-M)	2	3.75	3.50	0.00	0.25	2	2	G&L
9(M-M1)	2	3.75	3.50	0.25	0.00	2	2	G&L
9(M1-N)	2	3.75	3.55	0.00	0.20	2	2	G&L
8'(E'-F)	2	2.55	2.55	0.00	0.00	3	2	G&L
8'(F-F1)	2	1.80	1.80	0.00	0.00	3	2	G&L
8'(F1-F2)	2	2.10	2.10	0.00	0.00	3	2	G&L
8'(F2-F3)	2	2.10	2.10	0.00	0.00	3	2	G&L
8'(F3-G)	2	2.20	2.20	0.00	0.00	3	2	G&L
8(E'-F)	2	2.55	2.55	0.00	0.00	2	2	G&L
8(F-F1)	2	1.80	1.80	0.00	0.00	2	2	G&L
8(F1-F2)	2	2.10	2.10	0.00	0.00	2	2	G&L
8(F2-F3)	2	2.10	2.10	0.00	0.00	2	2	G&L
8(F3-G)	2	2.20	2.20	0.00	0.00	2	2	G&L
8(G-G')	2	3.60	3.60	0.00	0.00	2	2	G&L
8(G'-H)	2	3.60	3.35	0.00	0.25	2	2	G&L

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
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Beam	Floor	L	Lu	a	c	Sec	Mat	System
8(H-H1)	2	3.55	3.30	0.25	0.00	2	2	G&L
8(H1-I)	2	3.55	3.30	0.00	0.25	2	2	G&L
8(I-I1)	2	3.95	3.70	0.25	0.00	2	2	G&L
8(I1-J)	2	3.55	3.30	0.00	0.25	2	2	G&L
8(J-J1)	2	3.75	3.50	0.25	0.00	2	2	G&L
8(J1-K)	2	3.75	3.50	0.00	0.25	2	2	G&L
8(K-K1)	2	3.75	3.50	0.25	0.00	2	2	G&L
8(K1-L)	2	3.75	3.50	0.00	0.25	2	2	G&L
8(L-L1)	2	3.75	3.50	0.25	0.00	2	2	G&L
8(L1-M)	2	3.75	3.50	0.00	0.25	2	2	G&L
8(M-M1)	2	3.75	3.50	0.25	0.00	2	2	G&L
8(M1-N)	2	3.75	3.50	0.00	0.25	2	2	G&L
10(I-I1)	3	3.95	3.73	0.23	0.00	2	2	G&L
10(I1-J)	3	3.55	3.30	0.00	0.25	2	2	G&L
10(J-J1)	3	3.75	3.50	0.25	0.00	2	2	G&L
10(J1-K)	3	3.75	3.50	0.00	0.25	2	2	G&L
10(K-K1)	3	3.75	3.50	0.25	0.00	2	2	G&L
10(K1-L)	3	3.75	3.50	0.00	0.25	2	2	G&L
10(L-L1)	3	3.75	3.50	0.25	0.00	2	2	G&L
10(L1-M)	3	3.75	3.50	0.00	0.25	2	2	G&L
10(M-M1)	3	3.75	3.50	0.25	0.00	2	2	G&L
10(M1-N)	3	3.75	3.50	0.00	0.25	2	2	G&L
9'(F-F1)	3	1.80	1.80	0.00	0.00	4	2	G&L
9'(F1-F2)	3	2.10	2.10	0.00	0.00	4	2	G&L
9'(F2-F3)	3	2.10	2.10	0.00	0.00	4	2	G&L
9'(F3-G)	3	2.20	2.20	0.00	0.00	4	2	G&L
9(B'-C)	3	3.80	3.60	0.00	0.20	2	2	G&L
9(C-C1)	3	3.75	3.55	0.20	0.00	2	2	G&L
9(C1-D)	3	3.75	3.30	0.00	0.45	2	2	G&L
9(D-D1)	3	3.75	3.30	0.45	0.00	2	2	G&L
9(D1-E)	3	3.75	3.30	0.00	0.45	2	2	G&L
9(E-E')	3	3.75	3.30	0.45	0.00	2	2	G&L
9(E'-F)	3	3.75	3.75	0.00	0.00	2	2	G&L
9(F-F1)	3	1.80	1.80	0.00	0.00	2	2	G&L
9(F1-F2)	3	2.10	2.10	0.00	0.00	2	2	G&L
9(F2-F3)	3	2.10	2.10	0.00	0.00	2	2	G&L
9(F3-G)	3	2.20	2.20	0.00	0.00	2	2	G&L
9(G-G')	3	3.60	3.60	0.00	0.00	2	2	G&L
9(G'-H)	3	3.60	3.35	0.00	0.25	2	2	G&L
9(H-H1)	3	3.55	3.30	0.25	0.00	2	2	G&L
9(H1-I)	3	3.55	3.30	0.00	0.25	2	2	G&L
9(I-I1)	3	3.95	3.70	0.25	0.00	2	2	G&L
9(I1-J)	3	3.55	3.30	0.00	0.25	2	2	G&L
9(J-J1)	3	3.75	3.50	0.25	0.00	2	2	G&L
9(J1-K)	3	3.75	3.50	0.00	0.25	2	2	G&L
9(K-K1)	3	3.75	3.50	0.25	0.00	2	2	G&L
9(K1-L)	3	3.75	3.55	0.00	0.20	2	2	G&L
9(L-L1)	3	3.75	3.55	0.20	0.00	2	2	G&L
9(L1-M)	3	3.75	3.50	0.00	0.25	2	2	G&L
9(M-M1)	3	3.75	3.50	0.25	0.00	2	2	G&L
9(M1-N)	3	3.75	3.55	0.00	0.20	2	2	G&L
8'(B'-C)	3	3.80	3.45	0.10	0.25	4	2	G
8'(C-D)	3	7.50	7.00	0.25	0.25	4	2	G
8'(F-F1)	3	1.80	1.80	0.00	0.00	3	2	G&L
8'(F1-F2)	3	2.10	2.10	0.00	0.00	3	2	G&L
8'(F2-F3)	3	2.10	2.10	0.00	0.00	3	2	G&L
8'(F3-G)	3	2.20	2.20	0.00	0.00	3	2	G&L
8(B-B')	3	4.95	4.70	0.25	0.00	6	4	G&L
8(B'-C)	3	3.80	3.35	0.00	0.45	2	2	G&L
8(C-C1)	3	3.75	3.30	0.45	0.00	2	2	G&L
8(C1-D)	3	3.75	3.30	0.00	0.45	2	2	G&L
8(D-D1)	3	3.75	3.30	0.45	0.00	2	2	G&L
8(D1-E)	3	3.75	3.30	0.00	0.45	2	2	G&L
8(E-E')	3	3.75	3.30	0.45	0.00	2	2	G&L
8(E'-F)	3	3.75	3.75	0.00	0.00	2	2	G&L
8(F-F1)	3	1.80	1.80	0.00	0.00	2	2	G&L
8(F1-F2)	3	2.10	2.10	0.00	0.00	2	2	G&L
8(F2-F3)	3	2.10	2.10	0.00	0.00	2	2	G&L
8(F3-G)	3	2.20	2.20	0.00	0.00	2	2	G&L
8(G-G')	3	3.60	3.60	0.00	0.00	2	2	G&L
8(G'-H)	3	3.60	3.35	0.00	0.25	2	2	G&L
8(H-H1)	3	3.55	3.30	0.25	0.00	2	2	G&L
8(H1-I)	3	3.55	3.30	0.00	0.25	2	2	G&L
8(I-I1)	3	3.95	3.70	0.25	0.00	2	2	G&L

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Beam	Floor	L	Lu	a	c	Sec	Mat	System
8(I1-J)	3	3.55	3.30	0.00	0.25	2	2	G&L
8(J-J1)	3	3.75	3.50	0.25	0.00	2	2	G&L
8(J1-K)	3	3.75	3.50	0.00	0.25	2	2	G&L
8(K-K1)	3	3.75	3.50	0.25	0.00	2	2	G&L
8(K1-L)	3	3.75	3.50	0.00	0.25	2	2	G&L
8(L-L1)	3	3.75	3.50	0.25	0.00	2	2	G&L
8(L1-M)	3	3.75	3.50	0.00	0.25	2	2	G&L
8(M-M1)	3	3.75	3.50	0.25	0.00	2	2	G&L
8(M1-N)	3	3.75	3.50	0.00	0.25	2	2	G&L
9'(F-F1)	4	1.80	1.80	0.00	0.00	4	2	G&L
9'(F1-F2)	4	2.10	2.10	0.00	0.00	4	2	G&L
9'(F2-F3)	4	2.10	2.10	0.00	0.00	4	2	G&L
9'(F3-G)	4	2.20	2.20	0.00	0.00	4	2	G&L
9(B'-C)	4	3.80	3.60	0.00	0.20	2	2	G&L
9(C-C1)	4	3.75	3.55	0.20	0.00	2	2	G&L
9(C1-D)	4	3.75	3.50	0.00	0.25	2	2	G&L
9(D-D1)	4	3.75	3.50	0.25	0.00	2	2	G&L
9(D1-E)	4	3.75	3.50	0.00	0.25	2	2	G&L
9(E-E')	4	3.75	3.50	0.25	0.00	2	2	G&L
9(E'-F)	4	3.75	3.75	0.00	0.00	2	2	G&L
9(F-F1)	4	1.80	1.80	0.00	0.00	2	2	G&L
9(F1-F2)	4	2.10	2.10	0.00	0.00	2	2	G&L
9(F2-F3)	4	2.10	2.10	0.00	0.00	2	2	G&L
9(F3-G)	4	2.20	2.20	0.00	0.00	2	2	G&L
9(G-G')	4	3.60	3.60	0.00	0.00	2	2	G&L
9(G'-H)	4	3.60	3.35	0.00	0.25	2	2	G&L
9(H-H1)	4	3.55	3.30	0.25	0.00	2	2	G&L
9(H1-I)	4	3.55	3.30	0.00	0.25	2	2	G&L
9(I-I1)	4	3.95	3.70	0.25	0.00	2	2	G&L
9(I1-J)	4	3.55	3.30	0.00	0.25	2	2	G&L
9(J-J1)	4	3.75	3.50	0.25	0.00	2	2	G&L
9(J1-K)	4	3.75	3.50	0.00	0.25	2	2	G&L
9(K-K1)	4	3.75	3.50	0.25	0.00	2	2	G&L
9(K1-L)	4	3.75	3.55	0.00	0.20	2	2	G&L
9(L-L1)	4	3.75	3.55	0.20	0.00	2	2	G&L
8'(F-F1)	4	1.80	1.80	0.00	0.00	3	2	G&L
8'(F1-F2)	4	2.10	2.10	0.00	0.00	3	2	G&L
8'(F2-F3)	4	2.10	2.10	0.00	0.00	3	2	G&L
8'(F3-G)	4	2.20	2.20	0.00	0.00	3	2	G&L
8(B'-C)	4	3.80	3.55	0.00	0.25	2	2	G&L
8(C-C1)	4	3.75	3.50	0.25	0.00	2	2	G&L
8(C1-D)	4	3.75	3.50	0.00	0.25	2	2	G&L
8(D-D1)	4	3.75	3.50	0.25	0.00	2	2	G&L
8(D1-E)	4	3.75	3.50	0.00	0.25	2	2	G&L
8(E-E')	4	3.75	3.50	0.25	0.00	2	2	G&L
8(E'-F)	4	3.75	3.75	0.00	0.00	2	2	G&L
8(F-F1)	4	1.80	1.80	0.00	0.00	2	2	G&L
8(F1-F2)	4	2.10	2.10	0.00	0.00	2	2	G&L
8(F2-F3)	4	2.10	2.10	0.00	0.00	2	2	G&L
8(F3-G)	4	2.20	2.20	0.00	0.00	2	2	G&L
8(G-G')	4	3.60	3.60	0.00	0.00	2	2	G&L
8(G'-H)	4	3.60	3.35	0.00	0.25	2	2	G&L
8(H-H1)	4	3.55	3.30	0.25	0.00	2	2	G&L
8(H1-I)	4	3.55	3.30	0.00	0.25	2	2	G&L
8(I-I1)	4	3.95	3.70	0.25	0.00	2	2	G&L
8(I1-J)	4	3.55	3.30	0.00	0.25	2	2	G&L
8(J-J1)	4	3.75	3.50	0.25	0.00	2	2	G&L
8(J1-K)	4	3.75	3.50	0.00	0.25	2	2	G&L
8(K-K1)	4	3.75	3.50	0.25	0.00	2	2	G&L
8(K1-L)	4	3.75	3.50	0.00	0.25	2	2	G&L
8(L-L1)	4	3.75	3.50	0.25	0.00	2	2	G&L
9'(F-F1)	5	1.80	1.80	0.00	0.00	4	2	G&L
9'(F1-F2)	5	2.10	2.10	0.00	0.00	4	2	G&L
9'(F2-F3)	5	2.10	2.10	0.00	0.00	4	2	G&L
9'(F3-G)	5	2.20	2.20	0.00	0.00	4	2	G&L
9(B'-C)	5	3.80	3.60	0.00	0.20	2	2	G&L
9(C-C1)	5	3.75	3.55	0.20	0.00	2	2	G&L
9(C1-D)	5	3.75	3.50	0.00	0.25	2	2	G&L
9(D-D1)	5	3.75	3.50	0.25	0.00	2	2	G&L
9(D1-E)	5	3.75	3.50	0.00	0.25	2	2	G&L
9(E-E')	5	3.75	3.50	0.25	0.00	2	2	G&L
9(E'-F)	5	3.75	3.75	0.00	0.00	2	2	G&L
9(F-F1)	5	1.80	1.80	0.00	0.00	2	2	G&L

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Beam	Floor	L	Lu	a	c	Sec	Mat	System
9(F1-F2)	5	2.10	2.10	0.00	0.00	2	2	G&L
9(F2-F3)	5	2.10	2.10	0.00	0.00	2	2	G&L
9(F3-G)	5	2.20	2.20	0.00	0.00	2	2	G&L
9(G-G')	5	3.60	3.60	0.00	0.00	2	2	G&L
9(G'-H)	5	3.60	3.35	0.00	0.25	2	2	G&L
9(H-H1)	5	3.55	3.30	0.25	0.00	2	2	G&L
9(H1-I)	5	3.55	3.30	0.00	0.25	2	2	G&L
9(I-I1)	5	3.95	3.70	0.25	0.00	2	2	G&L
9(I1-J)	5	3.55	3.30	0.00	0.25	2	2	G&L
9(J-J1)	5	3.75	3.50	0.25	0.00	2	2	G&L
9(J1-K)	5	3.75	3.50	0.00	0.25	2	2	G&L
9(K-K1)	5	3.75	3.50	0.25	0.00	2	2	G&L
9(K1-L)	5	3.75	3.55	0.00	0.20	2	2	G&L
9(L-L1)	5	3.75	3.55	0.20	0.00	2	2	G&L
8'(F-F1)	5	1.80	1.80	0.00	0.00	3	2	G&L
8'(F1-F2)	5	2.10	2.10	0.00	0.00	3	2	G&L
8'(F2-F3)	5	2.10	2.10	0.00	0.00	3	2	G&L
8'(F3-G)	5	2.20	2.20	0.00	0.00	3	2	G&L
8(B'-C)	5	3.80	3.55	0.00	0.25	2	2	G&L
8(C-C1)	5	3.75	3.50	0.25	0.00	2	2	G&L
8(C1-D)	5	3.75	3.50	0.00	0.25	2	2	G&L
8(D-D1)	5	3.75	3.50	0.25	0.00	2	2	G&L
8(D1-E)	5	3.75	3.50	0.00	0.25	2	2	G&L
8(E-E')	5	3.75	3.50	0.25	0.00	2	2	G&L
8(E'-F)	5	3.75	3.75	0.00	0.00	2	2	G&L
8(F-F1)	5	1.80	1.80	0.00	0.00	2	2	G&L
8(F1-F2)	5	2.10	2.10	0.00	0.00	2	2	G&L
8(F2-F3)	5	2.10	2.10	0.00	0.00	2	2	G&L
8(F3-G)	5	2.20	2.20	0.00	0.00	2	2	G&L
8(G-G')	5	3.60	3.60	0.00	0.00	2	2	G&L
8(G'-H)	5	3.60	3.35	0.00	0.25	2	2	G&L
8(H-H1)	5	3.55	3.30	0.25	0.00	2	2	G&L
8(H1-I)	5	3.55	3.30	0.00	0.25	2	2	G&L
8(I-I1)	5	3.95	3.70	0.25	0.00	2	2	G&L
8(I1-J)	5	3.55	3.30	0.00	0.25	2	2	G&L
8(J-J1)	5	3.75	3.50	0.25	0.00	2	2	G&L
8(J1-K)	5	3.75	3.50	0.00	0.25	2	2	G&L
8(K-K1)	5	3.75	3.50	0.25	0.00	2	2	G&L
8(K1-L)	5	3.75	3.50	0.00	0.25	2	2	G&L
8(L-L1)	5	3.75	3.50	0.25	0.00	2	2	G&L
9'(F-F1)	6	1.80	1.80	0.00	0.00	4	2	G&L
9'(F1-F2)	6	2.10	2.10	0.00	0.00	4	2	G&L
9'(F2-F3)	6	2.10	2.10	0.00	0.00	4	2	G&L
9'(F3-G)	6	2.20	2.20	0.00	0.00	4	2	G&L
9(B'-C)	6	3.80	3.60	0.00	0.20	2	2	G&L
9(C-C1)	6	3.75	3.55	0.20	0.00	2	2	G&L
9(C1-D)	6	3.75	3.50	0.00	0.25	2	2	G&L
9(D-D1)	6	3.75	3.50	0.25	0.00	2	2	G&L
9(D1-E)	6	3.75	3.50	0.00	0.25	2	2	G&L
9(E-E')	6	3.75	3.50	0.25	0.00	2	2	G&L
9(E'-F)	6	3.75	3.75	0.00	0.00	2	2	G&L
9(F-F1)	6	1.80	1.80	0.00	0.00	2	2	G&L
9(F1-F2)	6	2.10	2.10	0.00	0.00	2	2	G&L
9(F2-F3)	6	2.10	2.10	0.00	0.00	2	2	G&L
9(F3-G)	6	2.20	2.20	0.00	0.00	2	2	G&L
9(G-G')	6	3.60	3.60	0.00	0.00	2	2	G&L
9(G'-H)	6	3.60	3.35	0.00	0.25	2	2	G&L
9(H-H1)	6	3.55	3.30	0.25	0.00	2	2	G&L
9(H1-I)	6	3.55	3.30	0.00	0.25	2	2	G&L
9(I-I1)	6	3.95	3.70	0.25	0.00	2	2	G&L
9(I1-J)	6	3.55	3.30	0.00	0.25	2	2	G&L
9(J-J1)	6	3.75	3.50	0.25	0.00	2	2	G&L
9(J1-K)	6	3.75	3.50	0.00	0.25	2	2	G&L
9(K-K1)	6	3.75	3.50	0.25	0.00	2	2	G&L
9(K1-L)	6	3.75	3.55	0.00	0.20	2	2	G&L
9(L-L1)	6	3.75	3.55	0.20	0.00	2	2	G&L
8'(F-F1)	6	1.80	1.80	0.00	0.00	3	2	G&L
8'(F1-F2)	6	2.10	2.10	0.00	0.00	3	2	G&L
8'(F2-F3)	6	2.10	2.10	0.00	0.00	3	2	G&L
8'(F3-G)	6	2.20	2.20	0.00	0.00	3	2	G&L
8(B'-C)	6	3.80	3.55	0.00	0.25	2	2	G&L
8(C-C1)	6	3.75	3.50	0.25	0.00	2	2	G&L
8(C1-D)	6	3.75	3.50	0.00	0.25	2	2	G&L
8(D-D1)	6	3.75	3.50	0.25	0.00	2	2	G&L

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Beam	Floor	L	Lu	a	c	Sec	Mat	System
8(D1-E)	6	3.75	3.50	0.00	0.25	2	2	G&L
8(E-E')	6	3.75	3.50	0.25	0.00	2	2	G&L
8(E'-F)	6	3.75	3.75	0.00	0.00	2	2	G&L
8(F-F1)	6	1.80	1.80	0.00	0.00	2	2	G&L
8(F1-F2)	6	2.10	2.10	0.00	0.00	2	2	G&L
8(F2-F3)	6	2.10	2.10	0.00	0.00	2	2	G&L
8(F3-G)	6	2.20	2.20	0.00	0.00	2	2	G&L
8(G-G')	6	3.60	3.60	0.00	0.00	2	2	G&L
8(G'-H)	6	3.60	3.35	0.00	0.25	2	2	G&L
8(H-H1)	6	3.55	3.30	0.25	0.00	2	2	G&L
8(H1-I)	6	3.55	3.30	0.00	0.25	2	2	G&L
8(I-I1)	6	3.95	3.70	0.25	0.00	2	2	G&L
8(I1-J)	6	3.55	3.30	0.00	0.25	2	2	G&L
8(J-J1)	6	3.75	3.50	0.25	0.00	2	2	G&L
8(J1-K)	6	3.75	3.50	0.00	0.25	2	2	G&L
8(K-K1)	6	3.75	3.50	0.25	0.00	2	2	G&L
8(K1-L)	6	3.75	3.50	0.00	0.25	2	2	G&L
8(L-L1)	6	3.75	3.50	0.25	0.00	2	2	G&L
9'(F-F1)	7	1.80	1.80	0.00	0.00	4	2	G&L
9'(F1-F2)	7	2.10	2.10	0.00	0.00	4	2	G&L
9'(F2-F3)	7	2.10	2.10	0.00	0.00	4	2	G&L
9'(F3-G)	7	2.20	2.20	0.00	0.00	4	2	G&L
9(B'-C)	7	3.80	3.60	0.00	0.20	2	2	G&L
9(C-C1)	7	3.75	3.55	0.20	0.00	2	2	G&L
9(C1-D)	7	3.75	3.50	0.00	0.25	2	2	G&L
9(D-D1)	7	3.75	3.50	0.25	0.00	2	2	G&L
9(D1-E)	7	3.75	3.50	0.00	0.25	2	2	G&L
9(E-E')	7	3.75	3.50	0.25	0.00	2	2	G&L
9(E'-F)	7	3.75	3.75	0.00	0.00	2	2	G&L
9(F-F1)	7	1.80	1.80	0.00	0.00	2	2	G&L
9(F1-F2)	7	2.10	2.10	0.00	0.00	2	2	G&L
9(F2-F3)	7	2.10	2.10	0.00	0.00	2	2	G&L
9(F3-G)	7	2.20	2.20	0.00	0.00	2	2	G&L
9(G-G')	7	3.60	3.60	0.00	0.00	2	2	G&L
9(G'-H)	7	3.60	3.35	0.00	0.25	2	2	G&L
9(H-H1)	7	3.55	3.30	0.25	0.00	2	2	G&L
9(H1-I)	7	3.55	3.30	0.00	0.25	2	2	G&L
9(I-I1)	7	3.95	3.70	0.25	0.00	2	2	G&L
9(I1-J)	7	3.55	3.30	0.00	0.25	2	2	G&L
9(J-J1)	7	3.75	3.50	0.25	0.00	2	2	G&L
9(J1-K)	7	3.75	3.50	0.00	0.25	2	2	G&L
9(K-K1)	7	3.75	3.50	0.25	0.00	2	2	G&L
9(K1-L)	7	3.75	3.55	0.00	0.20	2	2	G&L
9(L-L1)	7	3.75	3.55	0.20	0.00	2	2	G&L
8'(F-F1)	7	1.80	1.80	0.00	0.00	3	2	G&L
8'(F1-F2)	7	2.10	2.10	0.00	0.00	3	2	G&L
8'(F2-F3)	7	2.10	2.10	0.00	0.00	3	2	G&L
8'(F3-G)	7	2.20	2.20	0.00	0.00	3	2	G&L
8(B'-C)	7	3.80	3.55	0.00	0.25	2	2	G&L
8(C-C1)	7	3.75	3.50	0.25	0.00	2	2	G&L
8(C1-D)	7	3.75	3.50	0.00	0.25	2	2	G&L
8(D-D1)	7	3.75	3.50	0.25	0.00	2	2	G&L
8(D1-E)	7	3.75	3.50	0.00	0.25	2	2	G&L
8(E-E')	7	3.75	3.50	0.25	0.00	2	2	G&L
8(E'-F)	7	3.75	3.75	0.00	0.00	2	2	G&L
8(F-F1)	7	1.80	1.80	0.00	0.00	2	2	G&L
8(F1-F2)	7	2.10	2.10	0.00	0.00	2	2	G&L
8(F2-F3)	7	2.10	2.10	0.00	0.00	2	2	G&L
8(F3-G)	7	2.20	2.20	0.00	0.00	2	2	G&L
8(G-G')	7	3.60	3.60	0.00	0.00	2	2	G&L
8(G'-H)	7	3.60	3.35	0.00	0.25	2	2	G&L
8(H-H1)	7	3.55	3.30	0.25	0.00	2	2	G&L
8(H1-I)	7	3.55	3.30	0.00	0.25	2	2	G&L
8(I-I1)	7	3.95	3.70	0.25	0.00	2	2	G&L
8(I1-J)	7	3.55	3.30	0.00	0.25	2	2	G&L
8(J-J1)	7	3.75	3.50	0.25	0.00	2	2	G&L
8(J1-K)	7	3.75	3.50	0.00	0.25	2	2	G&L
8(K-K1)	7	3.75	3.50	0.25	0.00	2	2	G&L
8(K1-L)	7	3.75	3.50	0.00	0.25	2	2	G&L
8(L-L1)	7	3.75	3.50	0.25	0.00	2	2	G&L
9'(F-F1)	8	1.80	1.80	0.00	0.00	6	4	G&L
9'(F1-F2)	8	2.10	2.10	0.00	0.00	6	4	G&L
9'(F2-F3)	8	2.10	2.10	0.00	0.00	6	4	G&L

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Beam	Floor	L	Lu	a	c	Sec	Mat	System
9'(F3-G)	8	2.20	2.20	0.00	0.00	6	4	G&L
9(B-B')	8	4.95	4.60	0.25	0.10	6	4	G&L
9(B'-C)	8	3.80	3.50	0.10	0.20	6	4	G&L
9(C-C1)	8	3.75	3.45	0.20	0.10	6	4	G&L
9(C1-D)	8	3.75	3.40	0.10	0.25	6	4	G&L
9(D-D1)	8	3.75	3.40	0.25	0.10	6	4	G&L
9(D1-E)	8	3.75	3.40	0.10	0.25	6	4	G&L
9(E-E')	8	3.75	3.40	0.25	0.10	6	4	G&L
9(E'-F)	8	3.75	3.65	0.10	0.00	6	4	G&L
9(F-F1)	8	1.80	1.80	0.00	0.00	6	4	G&L
9(F1-F2)	8	2.10	2.10	0.00	0.00	6	4	G&L
9(F2-F3)	8	2.10	2.10	0.00	0.00	6	4	G&L
9(F3-G)	8	2.20	2.20	0.00	0.00	6	4	G&L
9(G-G')	8	3.60	3.50	0.00	0.10	6	4	G&L
9(G'-H)	8	3.60	3.25	0.10	0.25	6	4	G&L
9(H-H1)	8	3.55	3.20	0.25	0.10	6	4	G&L
9(H1-I)	8	3.55	3.20	0.10	0.25	6	4	G&L
9(I-I1)	8	3.95	3.60	0.25	0.10	6	4	G&L
9(I1-J)	8	3.55	3.20	0.10	0.25	6	4	G&L
9(J-J1)	8	3.75	3.40	0.25	0.10	6	4	G&L
9(J1-K)	8	3.75	3.40	0.10	0.25	6	4	G&L
9(K-K1)	8	3.75	3.40	0.25	0.10	6	4	G&L
9(K1-L)	8	3.75	3.45	0.10	0.20	6	4	G&L
9(L-L1)	8	3.75	3.45	0.20	0.10	6	4	G&L
9(L1-M)	8	3.75	3.40	0.10	0.25	6	4	G&L
8'(F-F1)	8	1.80	1.80	0.00	0.00	6	4	G&L
8'(F1-F2)	8	2.10	2.10	0.00	0.00	6	4	G&L
8'(F2-F3)	8	2.10	2.10	0.00	0.00	6	4	G&L
8'(F3-G)	8	2.20	2.20	0.00	0.00	6	4	G&L
8(B-B')	8	4.95	4.60	0.25	0.10	6	4	G&L
8(B'-C)	8	3.80	3.45	0.10	0.25	6	4	G&L
8(C-C1)	8	3.75	3.40	0.25	0.10	6	4	G&L
8(C1-D)	8	3.75	3.40	0.10	0.25	6	4	G&L
8(D-D1)	8	3.75	3.40	0.25	0.10	6	4	G&L
8(D1-E)	8	3.75	3.40	0.10	0.25	6	4	G&L
8(E-E')	8	3.75	3.40	0.25	0.10	6	4	G&L
8(E'-F)	8	3.75	3.65	0.10	0.00	6	4	G&L
8(F-F1)	8	1.80	1.80	0.00	0.00	6	4	G&L
8(F1-F2)	8	2.10	2.10	0.00	0.00	6	4	G&L
8(F2-F3)	8	2.10	2.10	0.00	0.00	6	4	G&L
8(F3-G)	8	2.20	2.20	0.00	0.00	6	4	G&L
8(G-G')	8	3.60	3.50	0.00	0.10	6	4	G&L
8(G'-H)	8	3.60	3.25	0.10	0.25	6	4	G&L
8(H-H1)	8	3.55	3.20	0.25	0.10	6	4	G&L
8(H1-I)	8	3.55	3.20	0.10	0.25	6	4	G&L
8(I-I1)	8	3.95	3.60	0.25	0.10	6	4	G&L
8(I1-J)	8	3.55	3.20	0.10	0.25	6	4	G&L
8(J-J1)	8	3.75	3.40	0.25	0.10	6	4	G&L
8(J1-K)	8	3.75	3.40	0.10	0.25	6	4	G&L
8(K-K1)	8	3.75	3.40	0.25	0.10	6	4	G&L
8(K1-L)	8	3.75	3.40	0.10	0.25	6	4	G&L
8(L-L1)	8	3.75	3.40	0.25	0.10	6	4	G&L
8(L1-M)	8	3.75	3.40	0.10	0.25	6	4	G&L
C(10-9')	1	1.41	1.41	0.00	0.00	2	2	G&L
C(9'-9)	1	2.80	1.00	0.00	1.80	2	2	G&L
C(9-8')	1	5.27	3.47	1.80	0.00	2	2	G&L
C(8'-8)	1	2.80	2.80	0.00	0.00	2	2	G&L
C(8-7)	1	4.21	3.06	0.90	0.25	2	2	G&L
C1(10-9')	1	1.41	1.41	0.00	0.00	7	2	G
C1(9'-9)	1	2.80	2.55	0.00	0.25	7	2	G
C1(9-8')	1	5.27	5.02	0.25	0.00	7	2	G
C1(8'-8)	1	2.80	2.55	0.00	0.25	7	2	G
C1(8-7)	1	4.21	3.71	0.25	0.25	7	2	G
D(11'-10)	1	2.20	1.95	0.00	0.25	2	2	G&L
D(10-9')	1	1.41	1.41	0.00	0.00	2	2	G&L
D(9'-9)	1	2.80	1.90	0.00	0.90	2	2	G&L
D(9-8')	1	5.27	5.27	0.00	0.00	2	2	G&L
D(8'-8)	1	2.80	2.80	0.00	0.00	2	2	G&L
D(8-7)	1	4.21	3.06	0.90	0.25	2	2	G&L
D(7-6')	1	2.43	2.18	0.00	0.25	2	2	G&L
D1(11'-10)	1	2.20	1.95	0.00	0.25	7	2	G
D1(10-9')	1	1.41	1.16	0.25	0.00	7	2	G
D1(9'-9)	1	2.80	2.55	0.00	0.25	7	2	G

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Beam	Floor	L	Lu	a	c	Sec	Mat	System
D1(9-8')	1	5.27	5.02	0.25	0.00	7	2	G
D1(8'-8)	1	2.80	2.55	0.00	0.25	7	2	G
D1(8-7)	1	4.21	3.96	0.25	0.00	7	2	G
D1(7-6')	1	2.43	2.43	0.00	0.00	7	2	G
E(11'-10)	1	2.20	1.95	0.00	0.25	2	2	G&L
E(10-9')	1	1.41	1.16	0.25	0.00	2	2	G&L
E(9'-9)	1	2.80	1.90	0.00	0.90	2	2	G&L
E(9-8')	1	5.27	5.27	0.00	0.00	2	2	G&L
E(8'-8)	1	2.80	2.80	0.00	0.00	2	2	G&L
E(8-7)	1	4.21	3.31	0.90	0.00	2	2	G&L
E(7-6')	1	2.43	2.43	0.00	0.00	2	2	G&L
E'(11'-10)	1	2.20	1.95	0.00	0.25	7	2	G
E'(10-9')	1	1.41	1.16	0.25	0.00	7	2	G
E'(9'-9)	1	2.80	2.55	0.00	0.25	7	2	G
E'(9-8')	1	5.27	5.02	0.25	0.00	7	2	G
E'(8'-8)	1	2.80	2.55	0.00	0.25	7	2	G
E'(8-7)	1	4.21	3.96	0.25	0.00	7	2	G
E'(7-6')	1	2.43	2.43	0.00	0.00	7	2	G
F(11'-10)	1	2.20	1.95	0.00	0.25	2	2	G&L
F(10-9')	1	1.41	1.01	0.00	0.40	2	2	G&L
F(9'-9)	1	2.80	2.40	0.00	0.40	2	2	G&L
F(9-8')	1	5.27	4.87	0.00	0.40	2	2	G&L
F(8'-8)	1	2.80	2.40	0.00	0.40	2	2	G&L
F(8-7)	1	4.21	3.96	0.00	0.25	2	2	G&L
F(7-6')	1	2.43	2.18	0.00	0.25	2	2	G&L
F1(10-9')	1	1.41	1.16	0.00	0.25	4	2	G&L
F1(9'-9)	1	2.80	2.55	0.00	0.25	4	2	G&L
F1(9-8')	1	5.27	5.02	0.00	0.25	4	2	G&L
F1(8'-8)	1	2.80	2.55	0.00	0.25	4	2	G&L
F1(8-7)	1	4.21	3.96	0.00	0.25	4	2	G&L
F2(10-9')	1	1.41	1.16	0.00	0.25	4	2	G&L
F2(9'-9)	1	2.80	2.55	0.00	0.25	4	2	G&L
F2(9-8')	1	5.27	5.02	0.00	0.25	4	2	G&L
F2(8'-8)	1	2.80	2.55	0.00	0.25	4	2	G&L
F2(8-7)	1	4.21	3.96	0.00	0.25	4	2	G&L
F3(10-9')	1	1.41	1.16	0.00	0.25	4	2	G&L
F3(9'-9)	1	2.80	2.55	0.00	0.25	4	2	G&L
F3(9-8')	1	5.27	5.02	0.00	0.25	4	2	G&L
F3(8'-8)	1	2.80	2.55	0.00	0.25	4	2	G&L
F3(8-7)	1	4.21	3.96	0.00	0.25	4	2	G&L
G(10-9')	1	1.41	1.01	0.00	0.40	2	2	G&L
G(9'-9)	1	2.80	2.40	0.00	0.40	2	2	G&L
G(9-8')	1	5.27	4.87	0.00	0.40	2	2	G&L
G(8'-8)	1	2.80	2.40	0.00	0.40	2	2	G&L
G(8-7)	1	4.21	3.96	0.00	0.25	2	2	G&L
G'(10-9')	1	1.41	1.41	0.00	0.00	7	2	G
G'(9'-9)	1	2.80	2.55	0.00	0.25	7	2	G
G'(9-8')	1	5.27	5.02	0.25	0.00	7	2	G
G'(8'-8)	1	2.80	2.55	0.00	0.25	7	2	G
G'(8-7)	1	4.21	3.71	0.25	0.25	7	2	G
H(10-9')	1	1.41	1.41	0.00	0.00	2	2	G&L
H(9'-9)	1	2.80	1.00	0.00	1.80	2	2	G&L
H(9-8')	1	5.27	5.27	0.00	0.00	2	2	G&L
H(8'-8)	1	2.80	2.80	0.00	0.00	2	2	G&L
H(8-7)	1	4.21	2.16	1.80	0.25	2	2	G&L
H1(10-9')	1	1.41	1.41	0.00	0.00	7	2	G
H1(9'-9)	1	2.80	2.55	0.00	0.25	7	2	G
H1(9-8')	1	5.27	5.02	0.25	0.00	7	2	G
H1(8'-8)	1	2.80	2.55	0.00	0.25	7	2	G
H1(8-7)	1	4.21	3.71	0.25	0.25	7	2	G
I(11-11')	1	3.52	3.27	0.00	0.25	2	2	G&L
I(11'-10)	1	2.20	1.97	0.00	0.23	2	2	G&L
I(10-9')	1	1.41	1.19	0.23	0.00	2	2	G&L
I(9'-9)	1	2.80	1.00	0.00	1.80	2	2	G&L
I(9-8')	1	5.27	5.27	0.00	0.00	2	2	G&L
I(8'-8)	1	2.80	2.80	0.00	0.00	2	2	G&L
I(8-7)	1	4.21	2.16	1.80	0.25	2	2	G&L
I(7-6')	1	2.43	2.18	0.00	0.25	2	2	G&L
I1(11-11')	1	3.52	3.52	0.00	0.00	7	2	G
I1(11'-10)	1	2.20	1.95	0.00	0.25	7	2	G
I1(10-9')	1	1.41	1.16	0.25	0.00	7	2	G
I1(9'-9)	1	2.80	2.55	0.00	0.25	7	2	G

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Beam	Floor	L	Lu	a	c	Sec	Mat	System
I1(9-8')	1	5.27	5.02	0.25	0.00	7	2	G
I1(8'-8)	1	2.80	2.55	0.00	0.25	7	2	G
I1(8-7)	1	4.21	3.96	0.25	0.00	7	2	G
I1(7-6')	1	2.43	2.43	0.00	0.00	7	2	G
J(11-11')	1	3.52	3.52	0.00	0.00	2	2	G&L
J(11'-10)	1	2.20	1.95	0.00	0.25	2	2	G&L
J(10-9')	1	1.41	1.16	0.25	0.00	2	2	G&L
J(9'-9)	1	2.80	1.00	0.00	1.80	2	2	G&L
J(9-8')	1	5.27	5.27	0.00	0.00	2	2	G&L
J(8'-8)	1	2.80	2.80	0.00	0.00	2	2	G&L
J(8-7)	1	4.21	2.41	1.80	0.00	2	2	G&L
J(7-6')	1	2.43	2.43	0.00	0.00	2	2	G&L
J1(11-11')	1	3.52	3.52	0.00	0.00	7	2	G
J1(11'-10)	1	2.20	1.95	0.00	0.25	7	2	G
J1(10-9')	1	1.41	1.16	0.25	0.00	7	2	G
J1(9'-9)	1	2.80	2.55	0.00	0.25	7	2	G
J1(9-8')	1	5.27	5.02	0.25	0.00	7	2	G
J1(8'-8)	1	2.80	2.55	0.00	0.25	7	2	G
J1(8-7)	1	4.21	3.96	0.25	0.00	7	2	G
J1(7-6')	1	2.43	2.43	0.00	0.00	7	2	G
K(11-11')	1	3.52	3.52	0.00	0.00	2	2	G&L
K(11'-10)	1	2.20	1.95	0.00	0.25	2	2	G&L
K(10-9')	1	1.41	1.16	0.25	0.00	2	2	G&L
K(9'-9)	1	2.80	1.00	0.00	1.80	2	2	G&L
K(9-8')	1	5.27	5.27	0.00	0.00	2	2	G&L
K(8'-8)	1	2.80	2.80	0.00	0.00	2	2	G&L
K(8-7)	1	4.21	2.41	1.80	0.00	2	2	G&L
K(7-6')	1	2.43	2.43	0.00	0.00	2	2	G&L
K1(11-11')	1	3.52	3.52	0.00	0.00	7	2	G
K1(11'-10)	1	2.20	1.95	0.00	0.25	7	2	G
K1(10-9')	1	1.41	1.16	0.25	0.00	7	2	G
K1(9'-9)	1	2.80	2.55	0.00	0.25	7	2	G
K1(9-8')	1	5.27	5.02	0.25	0.00	7	2	G
K1(8'-8)	1	2.80	2.55	0.00	0.25	7	2	G
K1(8-7)	1	4.21	3.96	0.25	0.00	7	2	G
K1(7-6')	1	2.43	2.43	0.00	0.00	7	2	G
L(11-11')	1	3.52	3.52	0.00	0.00	2	2	G&L
L(11'-10)	1	2.20	1.95	0.00	0.25	2	2	G&L
L(10-9')	1	1.41	1.16	0.25	0.00	2	2	G&L
L(9'-9)	1	2.80	1.00	0.00	1.80	2	2	G&L
L(9-8')	1	5.27	3.47	1.80	0.00	2	2	G&L
L(8'-8)	1	2.80	2.80	0.00	0.00	2	2	G&L
L(8-7)	1	4.21	2.41	1.80	0.00	2	2	G&L
L(7-6')	1	2.43	2.43	0.00	0.00	2	2	G&L
L1(11-11')	1	3.52	3.52	0.00	0.00	7	2	G
L1(11'-10)	1	2.20	1.95	0.00	0.25	7	2	G
L1(10-9')	1	1.41	1.16	0.25	0.00	7	2	G
L1(9'-9)	1	2.80	2.55	0.00	0.25	7	2	G
L1(9-8')	1	5.27	5.02	0.25	0.00	7	2	G
L1(8'-8)	1	2.80	2.55	0.00	0.25	7	2	G
L1(8-7)	1	4.21	3.96	0.25	0.00	7	2	G
L1(7-6')	1	2.43	2.43	0.00	0.00	7	2	G
M(11-11')	1	3.52	3.52	0.00	0.00	2	2	G&L
M(11'-10)	1	2.20	1.95	0.00	0.25	2	2	G&L
M(10-9')	1	1.41	1.16	0.25	0.00	2	2	G&L
M(9'-9)	1	2.80	1.00	0.00	1.80	2	2	G&L
M(9-8')	1	5.27	5.27	0.00	0.00	2	2	G&L
M(8'-8)	1	2.80	2.80	0.00	0.00	2	2	G&L
M(8-7)	1	4.21	2.41	1.80	0.00	2	2	G&L
M(7-6')	1	2.43	2.43	0.00	0.00	2	2	G&L
M1(11-11')	1	3.52	3.52	0.00	0.00	7	2	G
M1(11'-10)	1	2.20	1.95	0.00	0.25	7	2	G
M1(10-9')	1	1.41	1.16	0.25	0.00	7	2	G
M1(9'-9)	1	2.80	2.55	0.00	0.25	7	2	G
M1(9-8')	1	5.27	5.02	0.25	0.00	7	2	G
M1(8'-8)	1	2.80	2.55	0.00	0.25	7	2	G
M1(8-7)	1	4.21	3.96	0.25	0.00	7	2	G

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Beam	Floor	L	Lu	a	c	Sec	Mat	System
M1(7-6')	1	2.43	2.43	0.00	0.00	7	2	G
N(11-11')	1	3.52	3.52	0.00	0.00	2	2	G&L
N(11'-10)	1	2.20	1.95	0.00	0.25	2	2	G&L
N(10-9')	1	1.41	1.16	0.25	0.00	2	2	G&L
N(9'-9)	1	2.80	1.00	0.00	1.80	2	2	G&L
N(9-8')	1	5.27	3.47	1.80	0.00	2	2	G&L
N(8'-8)	1	2.80	2.80	0.00	0.00	2	2	G&L
N(8-7)	1	4.21	2.41	1.80	0.00	2	2	G&L
N(7-6')	1	2.43	2.43	0.00	0.00	2	2	G&L
N1(11-11')	1	3.52	3.52	0.00	0.00	7	2	G
N1(11'-10)	1	2.20	1.95	0.00	0.25	7	2	G
N1(10-9')	1	1.41	1.16	0.25	0.00	7	2	G
N1(9'-9)	1	2.80	2.55	0.00	0.25	7	2	G
N1(9-8')	1	5.27	5.02	0.25	0.00	7	2	G
N1(8'-8)	1	2.80	2.55	0.00	0.25	7	2	G
N1(8-7)	1	4.21	3.96	0.25	0.00	7	2	G
N1(7-6')	1	2.43	2.43	0.00	0.00	7	2	G
O(11-11')	1	3.52	3.52	0.00	0.00	2	2	G&L
O(11'-10)	1	2.20	1.95	0.00	0.25	2	2	G&L
O(10-9')	1	1.41	1.16	0.25	0.00	2	2	G&L
O(9'-9)	1	2.80	2.58	0.00	0.23	2	2	G&L
O(9-8')	1	5.27	5.05	0.23	0.00	2	2	G&L
O(8'-8)	1	2.80	2.58	0.00	0.23	2	2	G&L
O(8-7)	1	4.21	3.99	0.23	0.00	2	2	G&L
O(7-6')	1	2.43	2.43	0.00	0.00	2	2	G&L
O1(11-11')	1	3.52	3.52	0.00	0.00	7	2	G
O1(11'-10)	1	2.20	1.95	0.00	0.25	7	2	G
O1(10-9')	1	1.41	1.16	0.25	0.00	7	2	G
O1(9'-9)	1	2.80	2.55	0.00	0.25	7	2	G
O1(9-8')	1	5.27	5.02	0.25	0.00	7	2	G
O1(8'-8)	1	2.80	2.55	0.00	0.25	7	2	G
O1(8-7)	1	4.21	3.96	0.25	0.00	7	2	G
O1(7-6')	1	2.43	2.43	0.00	0.00	7	2	G
O2(11-11')	1	3.52	3.52	0.00	0.00	7	2	G
O2(11'-10)	1	2.20	1.95	0.00	0.25	7	2	G
O2(10-9')	1	1.41	1.16	0.25	0.00	7	2	G
O2(9'-9)	1	2.80	2.55	0.00	0.25	7	2	G
O2(9-8')	1	5.27	5.02	0.25	0.00	7	2	G
O2(8'-8)	1	2.80	2.55	0.00	0.25	7	2	G
O2(8-7)	1	4.21	3.96	0.25	0.00	7	2	G
O2(7-6')	1	2.43	2.43	0.00	0.00	7	2	G
B(10-9')	2	1.41	1.41	0.00	0.00	6	4	G&L
B(9'-9)	2	2.80	2.80	0.00	0.00	6	4	G&L
B(9-8')	2	5.27	5.27	0.00	0.00	6	4	G&L
B(8'-8)	2	2.80	2.80	0.00	0.00	6	4	G&L
B(8-7)	2	4.21	4.21	0.00	0.00	6	4	G&L
E'(10-9')	2	1.41	1.29	0.00	0.13	7	2	G
E'(9'-9)	2	2.80	2.43	0.13	0.25	7	2	G
E'(9-8')	2	5.27	4.82	0.25	0.20	7	2	G
E'(8'-8)	2	2.80	2.35	0.20	0.25	7	2	G
E'(8-7)	2	4.21	3.96	0.25	0.00	7	2	G
F(10-9')	2	1.41	1.01	0.00	0.40	2	2	G&L
F(9'-9)	2	2.80	2.40	0.00	0.40	2	2	G&L
F(9-8')	2	5.27	4.87	0.00	0.40	2	2	G&L
F(8'-8)	2	2.80	2.40	0.00	0.40	2	2	G&L
F(8-7)	2	4.21	4.21	0.00	0.00	2	2	G&L
F1(10-9')	2	1.41	1.16	0.00	0.25	4	2	G&L
F1(9'-9)	2	2.80	2.55	0.00	0.25	4	2	G&L
F1(9-8')	2	5.27	5.02	0.00	0.25	4	2	G&L
F1(8'-8)	2	2.80	2.55	0.00	0.25	4	2	G&L
F1(8-7)	2	4.21	4.21	0.00	0.00	4	2	G&L
F2(10-9')	2	1.41	1.16	0.00	0.25	4	2	G&L
F2(9'-9)	2	2.80	2.55	0.00	0.25	4	2	G&L
F2(9-8')	2	5.27	5.02	0.00	0.25	4	2	G&L
F2(8'-8)	2	2.80	2.55	0.00	0.25	4	2	G&L
F2(8-7)	2	4.21	4.21	0.00	0.00	4	2	G&L
F3(10-9')	2	1.41	1.16	0.00	0.25	4	2	G&L
F3(9'-9)	2	2.80	2.55	0.00	0.25	4	2	G&L

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Beam	Floor	L	Lu	a	c	Sec	Mat	System
F3(9-8')	2	5.27	5.02	0.00	0.25	4	2	G&L
F3(8'-8)	2	2.80	2.55	0.00	0.25	4	2	G&L
F3(8-7)	2	4.21	4.21	0.00	0.00	4	2	G&L
G(10-9')	2	1.41	1.01	0.00	0.40	2	2	G&L
G(9'-9)	2	2.80	2.40	0.00	0.40	2	2	G&L
G(9-8')	2	5.27	4.87	0.00	0.40	2	2	G&L
G(8'-8)	2	2.80	2.40	0.00	0.40	2	2	G&L
G(8-7)	2	4.21	4.21	0.00	0.00	2	2	G&L
G'(10-9')	2	1.41	1.41	0.00	0.00	7	2	G
G'(9'-9)	2	2.80	2.55	0.00	0.25	7	2	G
G'(9-8')	2	5.27	5.02	0.25	0.00	7	2	G
G'(8'-8)	2	2.80	2.55	0.00	0.25	7	2	G
G'(8-7)	2	4.21	3.96	0.25	0.00	7	2	G
H(10-9')	2	1.41	1.41	0.00	0.00	2	2	G&L
H(9'-9)	2	2.80	1.00	0.00	1.80	2	2	G&L
H(9-8')	2	5.27	5.27	0.00	0.00	2	2	G&L
H(8'-8)	2	2.80	2.80	0.00	0.00	2	2	G&L
H(8-7)	2	4.21	2.41	1.80	0.00	2	2	G&L
H1(10-9')	2	1.41	1.41	0.00	0.00	7	2	G
H1(9'-9)	2	2.80	2.55	0.00	0.25	7	2	G
H1(9-8')	2	5.27	5.02	0.25	0.00	7	2	G
H1(8'-8)	2	2.80	2.55	0.00	0.25	7	2	G
H1(8-7)	2	4.21	3.96	0.25	0.00	7	2	G
I(11'-10)	2	2.20	1.97	0.00	0.23	2	2	G&L
I(10-9')	2	1.41	1.19	0.23	0.00	2	2	G&L
I(9'-9)	2	2.80	1.00	0.00	1.80	2	2	G&L
I(9-8')	2	5.27	5.27	0.00	0.00	2	2	G&L
I(8'-8)	2	2.80	2.80	0.00	0.00	2	2	G&L
I(8-7)	2	4.21	2.41	1.80	0.00	2	2	G&L
I1(11'-10)	2	2.20	1.95	0.00	0.25	7	2	G
I1(10-9')	2	1.41	1.16	0.25	0.00	7	2	G
I1(9'-9)	2	2.80	2.55	0.00	0.25	7	2	G
I1(9-8')	2	5.27	5.02	0.25	0.00	7	2	G
I1(8'-8)	2	2.80	2.55	0.00	0.25	7	2	G
I1(8-7)	2	4.21	3.96	0.25	0.00	7	2	G
J(11-11')	2	3.52	3.52	0.00	0.00	5	4	G&L
J(11'-10)	2	2.20	1.95	0.00	0.25	2	2	G&L
J(10-9')	2	1.41	1.16	0.25	0.00	2	2	G&L
J(9'-9)	2	2.80	1.00	0.00	1.80	2	2	G&L
J(9-8')	2	5.27	5.27	0.00	0.00	2	2	G&L
J(8'-8)	2	2.80	2.80	0.00	0.00	2	2	G&L
J(8-7)	2	4.21	2.41	1.80	0.00	2	2	G&L
J(7-6')	2	2.43	2.43	0.00	0.00	5	4	G&L
J1(11'-10)	2	2.20	1.95	0.00	0.25	7	2	G
J1(10-9')	2	1.41	1.16	0.25	0.00	7	2	G
J1(9'-9)	2	2.80	2.55	0.00	0.25	7	2	G
J1(9-8')	2	5.27	5.02	0.25	0.00	7	2	G
J1(8'-8)	2	2.80	2.55	0.00	0.25	7	2	G
J1(8-7)	2	4.21	3.96	0.25	0.00	7	2	G
K(11-11')	2	3.52	3.52	0.00	0.00	5	4	G&L
K(11'-10)	2	2.20	1.95	0.00	0.25	2	2	G&L
K(10-9')	2	1.41	1.16	0.25	0.00	2	2	G&L
K(9'-9)	2	2.80	1.00	0.00	1.80	2	2	G&L
K(9-8')	2	5.27	5.27	0.00	0.00	2	2	G&L
K(8'-8)	2	2.80	2.80	0.00	0.00	2	2	G&L
K(8-7)	2	4.21	2.41	1.80	0.00	2	2	G&L
K(7-6')	2	2.43	2.43	0.00	0.00	5	4	G&L
K1(11'-10)	2	2.20	1.95	0.00	0.25	7	2	G
K1(10-9')	2	1.41	1.16	0.25	0.00	7	2	G
K1(9'-9)	2	2.80	2.55	0.00	0.25	7	2	G
K1(9-8')	2	5.27	5.02	0.25	0.00	7	2	G
K1(8'-8)	2	2.80	2.55	0.00	0.25	7	2	G
K1(8-7)	2	4.21	3.96	0.25	0.00	7	2	G
L(11-11')	2	3.52	3.52	0.00	0.00	5	4	G&L
L(11'-10)	2	2.20	1.95	0.00	0.25	2	2	G&L
L(10-9')	2	1.41	1.16	0.25	0.00	2	2	G&L
L(9'-9)	2	2.80	1.00	0.00	1.80	2	2	G&L
L(9-8')	2	5.27	3.47	1.80	0.00	2	2	G&L
L(8'-8)	2	2.80	2.80	0.00	0.00	2	2	G&L
L(8-7)	2	4.21	2.41	1.80	0.00	2	2	G&L
L(7-6')	2	2.43	2.43	0.00	0.00	5	4	G&L
L1(11'-10)								

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Beam	Floor	L	Lu	a	c	Sec	Mat	System
	2	2.20	1.95	0.00	0.25	7	2	G
L1(10-9')	2	1.41	1.16	0.25	0.00	7	2	G
L1(9'-9)	2	2.80	2.55	0.00	0.25	7	2	G
L1(9-8')	2	5.27	5.02	0.25	0.00	7	2	G
L1(8'-8)	2	2.80	2.55	0.00	0.25	7	2	G
L1(8-7)	2	4.21	3.96	0.25	0.00	7	2	G
M(11-11')	2	3.52	3.52	0.00	0.00	5	4	G&L
M(11'-10)	2	2.20	1.95	0.00	0.25	2	2	G&L
M(10-9')	2	1.41	1.16	0.25	0.00	2	2	G&L
M(9'-9)	2	2.80	1.00	0.00	1.80	2	2	G&L
M(9-8')	2	5.27	5.27	0.00	0.00	2	2	G&L
M(8'-8)	2	2.80	2.80	0.00	0.00	2	2	G&L
M(8-7)	2	4.21	2.41	1.80	0.00	2	2	G&L
M(7-6')	2	2.43	2.43	0.00	0.00	5	4	G&L
M1(11'-10)								
	2	2.20	1.95	0.00	0.25	7	2	G
M1(10-9')	2	1.41	1.16	0.25	0.00	7	2	G
M1(9'-9)	2	2.80	2.55	0.00	0.25	7	2	G
M1(9-8')	2	5.27	5.02	0.25	0.00	7	2	G
M1(8'-8)	2	2.80	2.55	0.00	0.25	7	2	G
M1(8-7)	2	4.21	3.96	0.25	0.00	7	2	G
N(11-11')	2	3.52	3.52	0.00	0.00	5	4	G&L
N(11'-10)	2	2.20	1.95	0.00	0.25	2	2	G&L
N(10-9')	2	1.41	1.16	0.25	0.00	2	2	G&L
N(9'-9)	2	2.80	1.00	0.00	1.80	2	2	G&L
N(9-8')	2	5.27	3.47	1.80	0.00	2	2	G&L
N(8'-8)	2	2.80	2.80	0.00	0.00	2	2	G&L
N(8-7)	2	4.21	2.41	1.80	0.00	2	2	G&L
N(7-6')	2	2.43	2.43	0.00	0.00	5	4	G&L
B(10-9')	3	1.41	1.31	0.10	0.00	6	4	G&L
B(9'-9)	3	2.80	2.70	0.00	0.10	6	4	G&L
B(9-8')	3	5.27	5.17	0.10	0.00	6	4	G&L
B(8'-8)	3	2.80	2.70	0.00	0.10	6	4	G&L
B(8-7)	3	4.21	4.01	0.10	0.10	6	4	G&L
C(10-9')	3	1.41	1.41	0.00	0.00	2	2	G&L
C(9'-9)	3	2.80	1.00	0.00	1.80	2	2	G&L
C(9-8')	3	2.75	0.95	1.80	0.00	2	2	G&L
C(8'-8)	3	5.32	5.32	0.00	0.00	2	2	G&L
C(8-7)	3	4.21	3.31	0.90	0.00	2	2	G&L
C1(10-9')	3	1.41	1.41	0.00	0.00	7	2	G
C1(9'-9)	3	2.80	2.55	0.00	0.25	7	2	G
C1(9-8')	3	5.27	5.02	0.25	0.00	7	2	G
C1(8'-8)	3	2.80	2.55	0.00	0.25	7	2	G
C1(8-7)	3	4.21	3.96	0.25	0.00	7	2	G
D(10-9')	3	1.41	1.41	0.00	0.00	2	2	G&L
D(9'-9)	3	2.80	1.90	0.00	0.90	2	2	G&L
D(9-8')	3	2.75	2.75	0.00	0.00	2	2	G&L
D(8'-8)	3	5.32	5.32	0.00	0.00	2	2	G&L
D(8-7)	3	4.21	3.31	0.90	0.00	2	2	G&L
D1(10-9')	3	1.41	1.41	0.00	0.00	7	2	G
D1(9'-9)	3	2.80	2.55	0.00	0.25	7	2	G
D1(9-8')	3	5.27	5.02	0.25	0.00	7	2	G
D1(8'-8)	3	2.80	2.55	0.00	0.25	7	2	G
D1(8-7)	3	4.21	3.96	0.25	0.00	7	2	G
E(10-9')	3	1.41	1.41	0.00	0.00	2	2	G&L
E(9'-9)	3	2.80	1.90	0.00	0.90	2	2	G&L
E(9-8')	3	5.27	5.27	0.00	0.00	2	2	G&L
E(8'-8)	3	2.80	2.80	0.00	0.00	2	2	G&L
E(8-7)	3	4.21	3.31	0.90	0.00	2	2	G&L
E'(10-9')	3	1.41	1.41	0.00	0.00	7	2	G
E'(9'-9)	3	2.80	2.55	0.00	0.25	7	2	G
E'(9-8')	3	5.27	5.02	0.25	0.00	7	2	G
E'(8'-8)	3	2.80	2.55	0.00	0.25	7	2	G
E'(8-7)	3	4.21	3.96	0.25	0.00	7	2	G
F(10-9')	3	1.41	1.01	0.00	0.40	2	2	G&L
F(9'-9)	3	2.80	2.40	0.00	0.40	2	2	G&L
F(9-8')	3	5.27	4.87	0.00	0.40	2	2	G&L
F(8'-8)	3	2.80	2.40	0.00	0.40	2	2	G&L
F(8-7)	3	4.21	4.21	0.00	0.00	2	2	G&L
F1(10-9')	3	1.41	1.16	0.00	0.25	4	2	G&L
F1(9'-9)	3	2.80	2.55	0.00	0.25	4	2	G&L
F1(9-8')	3	5.27	5.02	0.00	0.25	4	2	G&L
F1(8'-8)	3	2.80	2.55	0.00	0.25	4	2	G&L
F1(8-7)	3	4.21	4.21	0.00	0.00	4	2	G&L

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Beam	Floor	L	Lu	a	c	Sec	Mat	System
F2(10-9')	3	1.41	1.16	0.00	0.25	4	2	G&L
F2(9'-9)	3	2.80	2.55	0.00	0.25	4	2	G&L
F2(9-8')	3	5.27	5.02	0.00	0.25	4	2	G&L
F2(8'-8)	3	2.80	2.55	0.00	0.25	4	2	G&L
F2(8-7)	3	4.21	4.21	0.00	0.00	4	2	G&L
F3(10-9')	3	1.41	1.16	0.00	0.25	4	2	G&L
F3(9'-9)	3	2.80	2.55	0.00	0.25	4	2	G&L
F3(9-8')	3	5.27	5.02	0.00	0.25	4	2	G&L
F3(8'-8)	3	2.80	2.55	0.00	0.25	4	2	G&L
F3(8-7)	3	4.21	4.21	0.00	0.00	4	2	G&L
G(10-9')	3	1.41	1.01	0.00	0.40	2	2	G&L
G(9'-9)	3	2.80	2.40	0.00	0.40	2	2	G&L
G(9-8')	3	5.27	4.87	0.00	0.40	2	2	G&L
G(8'-8)	3	2.80	2.40	0.00	0.40	2	2	G&L
G(8-7)	3	4.21	4.21	0.00	0.00	2	2	G&L
G'(10-9')	3	1.41	1.41	0.00	0.00	7	2	G
G'(9'-9)	3	2.80	2.55	0.00	0.25	7	2	G
G'(9-8')	3	5.27	5.02	0.25	0.00	7	2	G
G'(8'-8)	3	2.80	2.55	0.00	0.25	7	2	G
G'(8-7)	3	4.21	3.96	0.25	0.00	7	2	G
H(10-9')	3	1.41	1.41	0.00	0.00	2	2	G&L
H(9'-9)	3	2.80	1.00	0.00	1.80	2	2	G&L
H(9-8')	3	5.27	5.27	0.00	0.00	2	2	G&L
H(8'-8)	3	2.80	2.80	0.00	0.00	2	2	G&L
H(8-7)	3	4.21	2.41	1.80	0.00	2	2	G&L
H1(10-9')	3	1.41	1.41	0.00	0.00	7	2	G
H1(9'-9)	3	2.80	2.55	0.00	0.25	7	2	G
H1(9-8')	3	5.27	5.02	0.25	0.00	7	2	G
H1(8'-8)	3	2.80	2.55	0.00	0.25	7	2	G
H1(8-7)	3	4.21	3.96	0.25	0.00	7	2	G
I(11'-10)	3	2.20	1.97	0.00	0.23	2	2	G&L
I(10-9')	3	1.41	1.19	0.23	0.00	2	2	G&L
I(9'-9)	3	2.80	1.00	0.00	1.80	2	2	G&L
I(9-8')	3	5.27	5.27	0.00	0.00	2	2	G&L
I(8'-8)	3	2.80	2.80	0.00	0.00	2	2	G&L
I(8-7)	3	4.21	2.41	1.80	0.00	2	2	G&L
I1(11'-10)								
	3	2.20	1.95	0.00	0.25	7	2	G
I1(10-9')	3	1.41	1.16	0.25	0.00	7	2	G
I1(9'-9)	3	2.80	2.55	0.00	0.25	7	2	G
I1(9-8')	3	5.27	5.02	0.25	0.00	7	2	G
I1(8'-8)	3	2.80	2.55	0.00	0.25	7	2	G
I1(8-7)	3	4.21	3.96	0.25	0.00	7	2	G
J(11'-10)	3	2.20	1.95	0.00	0.25	2	2	G&L
J(10-9')	3	1.41	1.16	0.25	0.00	2	2	G&L
J(9'-9)	3	2.80	1.00	0.00	1.80	2	2	G&L
J(9-8')	3	5.27	5.27	0.00	0.00	2	2	G&L
J(8'-8)	3	2.80	2.80	0.00	0.00	2	2	G&L
J(8-7)	3	4.21	2.41	1.80	0.00	2	2	G&L
J1(11'-10)								
	3	2.20	1.95	0.00	0.25	7	2	G
J1(10-9')	3	1.41	1.16	0.25	0.00	7	2	G
J1(9'-9)	3	2.80	2.55	0.00	0.25	7	2	G
J1(9-8')	3	5.27	5.02	0.25	0.00	7	2	G
J1(8'-8)	3	2.80	2.55	0.00	0.25	7	2	G
J1(8-7)	3	4.21	3.96	0.25	0.00	7	2	G
K(11'-10)	3	2.20	1.95	0.00	0.25	2	2	G&L
K(10-9')	3	1.41	1.16	0.25	0.00	2	2	G&L
K(9'-9)	3	2.80	1.00	0.00	1.80	2	2	G&L
K(9-8')	3	5.27	5.27	0.00	0.00	2	2	G&L
K(8'-8)	3	2.80	2.80	0.00	0.00	2	2	G&L
K(8-7)	3	4.21	2.41	1.80	0.00	2	2	G&L
K1(11'-10)								
	3	2.20	1.95	0.00	0.25	7	2	G
K1(10-9')	3	1.41	1.16	0.25	0.00	7	2	G
K1(9'-9)	3	2.80	2.55	0.00	0.25	7	2	G
K1(9-8')	3	5.27	5.02	0.25	0.00	7	2	G
K1(8'-8)	3	2.80	2.55	0.00	0.25	7	2	G
K1(8-7)	3	4.21	3.96	0.25	0.00	7	2	G
L(11'-10)	3	2.20	1.95	0.00	0.25	2	2	G&L
L(10-9')	3	1.41	1.16	0.25	0.00	2	2	G&L
L(9'-9)	3	2.80	1.00	0.00	1.80	2	2	G&L
L(9-8')	3	5.27	3.47	1.80	0.00	2	2	G&L
L(8'-8)	3	2.80	2.80	0.00	0.00	2	2	G&L
L(8-7)	3	4.21	2.41	1.80	0.00	2	2	G&L

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Beam	Floor	L	Lu	a	c	Sec	Mat	System
L1(11'-10)								
	3	2.20	1.95	0.00	0.25	7	2	G
L1(10-9')	3	1.41	1.16	0.25	0.00	7	2	G
L1(9'-9)	3	2.80	2.55	0.00	0.25	7	2	G
L1(9-8')	3	5.27	5.02	0.25	0.00	7	2	G
L1(8'-8)	3	2.80	2.55	0.00	0.25	7	2	G
L1(8-7)	3	4.21	3.96	0.25	0.00	7	2	G
M(11'-10)	3	2.20	1.95	0.00	0.25	2	2	G&L
M(10-9')	3	1.41	1.16	0.25	0.00	2	2	G&L
M(9'-9)	3	2.80	1.00	0.00	1.80	2	2	G&L
M(9-8')	3	5.27	5.27	0.00	0.00	2	2	G&L
M(8'-8)	3	2.80	2.80	0.00	0.00	2	2	G&L
M(8-7)	3	4.21	2.41	1.80	0.00	2	2	G&L
M1(11'-10)								
	3	2.20	1.95	0.00	0.25	7	2	G
M1(10-9')	3	1.41	1.16	0.25	0.00	7	2	G
M1(9'-9)	3	2.80	2.55	0.00	0.25	7	2	G
M1(9-8')	3	5.27	5.02	0.25	0.00	7	2	G
M1(8'-8)	3	2.80	2.55	0.00	0.25	7	2	G
M1(8-7)	3	4.21	3.96	0.25	0.00	7	2	G
N(11'-10)	3	2.20	1.95	0.00	0.25	2	2	G&L
N(10-9')	3	1.41	1.16	0.25	0.00	2	2	G&L
N(9'-9)	3	2.80	1.00	0.00	1.80	2	2	G&L
N(9-8')	3	5.27	3.47	1.80	0.00	2	2	G&L
N(8'-8)	3	2.80	2.80	0.00	0.00	2	2	G&L
N(8-7)	3	4.21	2.41	1.80	0.00	2	2	G&L
B(10-9')	4	1.41	1.31	0.10	0.00	6	4	G&L
B(9'-9)	4	2.80	2.70	0.00	0.10	6	4	G&L
B(9-8')	4	5.27	5.17	0.10	0.00	6	4	G&L
B(8'-8)	4	2.80	2.70	0.00	0.10	6	4	G&L
B(8-7)	4	4.21	4.01	0.10	0.10	6	4	G&L
B'(10-9')	4	1.41	1.41	0.00	0.00	7	2	G
B'(9'-9)	4	2.80	2.55	0.00	0.25	7	2	G
B'(9-8')	4	5.27	5.02	0.25	0.00	7	2	G
B'(8'-8)	4	2.80	2.55	0.00	0.25	7	2	G
B'(8-7)	4	4.21	3.96	0.25	0.00	7	2	G
C(10-9')	4	1.41	1.41	0.00	0.00	2	2	G&L
C(9'-9)	4	2.80	1.00	0.00	1.80	2	2	G&L
C(9-8')	4	5.27	3.47	1.80	0.00	2	2	G&L
C(8'-8)	4	2.80	2.80	0.00	0.00	2	2	G&L
C(8-7)	4	4.21	2.41	1.80	0.00	2	2	G&L
C1(10-9')	4	1.41	1.41	0.00	0.00	7	2	G
C1(9'-9)	4	2.80	2.55	0.00	0.25	7	2	G
C1(9-8')	4	5.27	5.02	0.25	0.00	7	2	G
C1(8'-8)	4	2.80	2.55	0.00	0.25	7	2	G
C1(8-7)	4	4.21	3.96	0.25	0.00	7	2	G
D(10-9')	4	1.41	1.41	0.00	0.00	2	2	G&L
D(9'-9)	4	2.80	1.00	0.00	1.80	2	2	G&L
D(9-8')	4	5.27	5.27	0.00	0.00	2	2	G&L
D(8'-8)	4	2.80	2.80	0.00	0.00	2	2	G&L
D(8-7)	4	4.21	2.41	1.80	0.00	2	2	G&L
D1(10-9')	4	1.41	1.41	0.00	0.00	7	2	G
D1(9'-9)	4	2.80	2.55	0.00	0.25	7	2	G
D1(9-8')	4	5.27	5.02	0.25	0.00	7	2	G
D1(8'-8)	4	2.80	2.55	0.00	0.25	7	2	G
D1(8-7)	4	4.21	3.96	0.25	0.00	7	2	G
E(10-9')	4	1.41	1.41	0.00	0.00	2	2	G&L
E(9'-9)	4	2.80	1.00	0.00	1.80	2	2	G&L
E(9-8')	4	5.27	5.27	0.00	0.00	2	2	G&L
E(8'-8)	4	2.80	2.80	0.00	0.00	2	2	G&L
E(8-7)	4	4.21	2.41	1.80	0.00	2	2	G&L
E'(10-9')	4	1.41	1.41	0.00	0.00	7	2	G
E'(9'-9)	4	2.80	2.55	0.00	0.25	7	2	G
E'(9-8')	4	5.27	5.02	0.25	0.00	7	2	G
E'(8'-8)	4	2.80	2.55	0.00	0.25	7	2	G
E'(8-7)	4	4.21	3.96	0.25	0.00	7	2	G
F(10-9')	4	1.41	1.01	0.00	0.40	2	2	G&L
F(9'-9)	4	2.80	2.40	0.00	0.40	2	2	G&L
F(9-8')	4	5.27	4.87	0.00	0.40	2	2	G&L
F(8'-8)	4	2.80	2.40	0.00	0.40	2	2	G&L
F(8-7)	4	4.21	4.21	0.00	0.00	2	2	G&L
F1(10-9')	4	1.41	1.16	0.00	0.25	4	2	G&L
F1(9'-9)	4	2.80	2.55	0.00	0.25	4	2	G&L
F1(9-8')	4	5.27	5.02	0.00	0.25	4	2	G&L

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Beam	Floor	L	Lu	a	c	Sec	Mat	System
F1(8'-8)	4	2.80	2.55	0.00	0.25	4	2	G&L
F1(8-7)	4	4.21	4.21	0.00	0.00	4	2	G&L
F2(10-9')	4	1.41	1.16	0.00	0.25	4	2	G&L
F2(9'-9)	4	2.80	2.55	0.00	0.25	4	2	G&L
F2(9-8')	4	5.27	5.02	0.00	0.25	4	2	G&L
F2(8'-8)	4	2.80	2.55	0.00	0.25	4	2	G&L
F2(8-7)	4	4.21	4.21	0.00	0.00	4	2	G&L
F3(10-9')	4	1.41	1.16	0.00	0.25	4	2	G&L
F3(9'-9)	4	2.80	2.55	0.00	0.25	4	2	G&L
F3(9-8')	4	5.27	5.02	0.00	0.25	4	2	G&L
F3(8'-8)	4	2.80	2.55	0.00	0.25	4	2	G&L
F3(8-7)	4	4.21	4.21	0.00	0.00	4	2	G&L
G(10-9')	4	1.41	1.01	0.00	0.40	2	2	G&L
G(9'-9)	4	2.80	2.40	0.00	0.40	2	2	G&L
G(9-8')	4	5.27	4.87	0.00	0.40	2	2	G&L
G(8'-8)	4	2.80	2.40	0.00	0.40	2	2	G&L
G(8-7)	4	4.21	4.21	0.00	0.00	2	2	G&L
G'(10-9')	4	1.41	1.41	0.00	0.00	7	2	G
G'(9'-9)	4	2.80	2.55	0.00	0.25	7	2	G
G'(9-8')	4	5.27	5.02	0.25	0.00	7	2	G
G'(8'-8)	4	2.80	2.55	0.00	0.25	7	2	G
G'(8-7)	4	4.21	3.96	0.25	0.00	7	2	G
H(10-9')	4	1.41	1.41	0.00	0.00	2	2	G&L
H(9'-9)	4	2.80	1.00	0.00	1.80	2	2	G&L
H(9-8')	4	5.27	5.27	0.00	0.00	2	2	G&L
H(8'-8)	4	2.80	2.80	0.00	0.00	2	2	G&L
H(8-7)	4	4.21	2.41	1.80	0.00	2	2	G&L
H1(10-9')	4	1.41	1.41	0.00	0.00	7	2	G
H1(9'-9)	4	2.80	2.55	0.00	0.25	7	2	G
H1(9-8')	4	5.27	5.02	0.25	0.00	7	2	G
H1(8'-8)	4	2.80	2.55	0.00	0.25	7	2	G
H1(8-7)	4	4.21	3.96	0.25	0.00	7	2	G
I(10-9')	4	1.41	1.41	0.00	0.00	2	2	G&L
I(9'-9)	4	2.80	1.00	0.00	1.80	2	2	G&L
I(9-8')	4	5.27	5.27	0.00	0.00	2	2	G&L
I(8'-8)	4	2.80	2.80	0.00	0.00	2	2	G&L
I(8-7)	4	4.21	2.41	1.80	0.00	2	2	G&L
I1(10-9')	4	1.41	1.41	0.00	0.00	7	2	G
I1(9'-9)	4	2.80	2.55	0.00	0.25	7	2	G
I1(9-8')	4	5.27	5.02	0.25	0.00	7	2	G
I1(8'-8)	4	2.80	2.55	0.00	0.25	7	2	G
I1(8-7)	4	4.21	3.96	0.25	0.00	7	2	G
J(10-9')	4	1.41	1.41	0.00	0.00	2	2	G&L
J(9'-9)	4	2.80	1.00	0.00	1.80	2	2	G&L
J(9-8')	4	5.27	5.27	0.00	0.00	2	2	G&L
J(8'-8)	4	2.80	2.80	0.00	0.00	2	2	G&L
J(8-7)	4	4.21	2.41	1.80	0.00	2	2	G&L
J1(10-9')	4	1.41	1.41	0.00	0.00	7	2	G
J1(9'-9)	4	2.80	2.55	0.00	0.25	7	2	G
J1(9-8')	4	5.27	5.02	0.25	0.00	7	2	G
J1(8'-8)	4	2.80	2.55	0.00	0.25	7	2	G
J1(8-7)	4	4.21	3.96	0.25	0.00	7	2	G
K(10-9')	4	1.41	1.41	0.00	0.00	2	2	G&L
K(9'-9)	4	2.80	1.00	0.00	1.80	2	2	G&L
K(9-8')	4	5.27	5.27	0.00	0.00	2	2	G&L
K(8'-8)	4	2.80	2.80	0.00	0.00	2	2	G&L
K(8-7)	4	4.21	2.41	1.80	0.00	2	2	G&L
K1(10-9')	4	1.41	1.41	0.00	0.00	7	2	G
K1(9'-9)	4	2.80	2.55	0.00	0.25	7	2	G
K1(9-8')	4	5.27	5.02	0.25	0.00	7	2	G
K1(8'-8)	4	2.80	2.55	0.00	0.25	7	2	G
K1(8-7)	4	4.21	3.96	0.25	0.00	7	2	G
L(10-9')	4	1.41	1.41	0.00	0.00	2	2	G&L
L(9'-9)	4	2.80	1.00	0.00	1.80	2	2	G&L
L(9-8')	4	5.27	3.47	1.80	0.00	2	2	G&L
L(8'-8)	4	2.80	2.80	0.00	0.00	2	2	G&L
L(8-7)	4	4.21	2.41	1.80	0.00	2	2	G&L
L1(10-9')	4	1.41	1.41	0.00	0.00	7	2	G
L1(9'-9)	4	2.80	2.55	0.00	0.25	7	2	G
L1(9-8')	4	5.27	5.02	0.25	0.00	7	2	G
L1(8'-8)	4	2.80	2.55	0.00	0.25	7	2	G
L1(8-7)	4	4.21	3.96	0.25	0.00	7	2	G
M(10-9')	4	1.41	1.31	0.10	0.00	6	4	G&L
M(9'-9)	4	2.80	2.60	0.00	0.20	6	4	G&L
M(9-8')	4	5.27	5.27	0.00	0.00	6	4	G&L

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Beam	Floor	L	Lu	a	c	Sec	Mat	System
M(8'-8)	4	2.80	2.70	0.00	0.10	6	4	G&L
M(8-7)	4	4.21	4.01	0.10	0.10	6	4	G&L
B(10-9')	5	1.41	1.31	0.10	0.00	6	4	G&L
B(9'-9)	5	2.80	2.70	0.00	0.10	6	4	G&L
B(9-8')	5	5.27	5.17	0.10	0.00	6	4	G&L
B(8'-8)	5	2.80	2.70	0.00	0.10	6	4	G&L
B(8-7)	5	4.21	4.01	0.10	0.10	6	4	G&L
B'(10-9')	5	1.41	1.41	0.00	0.00	7	2	G
B'(9'-9)	5	2.80	2.55	0.00	0.25	7	2	G
B'(9-8')	5	5.27	5.02	0.25	0.00	7	2	G
B'(8'-8)	5	2.80	2.55	0.00	0.25	7	2	G
B'(8-7)	5	4.21	3.96	0.25	0.00	7	2	G
C(10-9')	5	1.41	1.41	0.00	0.00	2	2	G&L
C(9'-9)	5	2.80	1.00	0.00	1.80	2	2	G&L
C(9-8')	5	5.27	3.47	1.80	0.00	2	2	G&L
C(8'-8)	5	2.80	2.80	0.00	0.00	2	2	G&L
C(8-7)	5	4.21	2.41	1.80	0.00	2	2	G&L
C1(10-9')	5	1.41	1.41	0.00	0.00	7	2	G
C1(9'-9)	5	2.80	2.55	0.00	0.25	7	2	G
C1(9-8')	5	5.27	5.02	0.25	0.00	7	2	G
C1(8'-8)	5	2.80	2.55	0.00	0.25	7	2	G
C1(8-7)	5	4.21	3.96	0.25	0.00	7	2	G
D(10-9')	5	1.41	1.41	0.00	0.00	2	2	G&L
D(9'-9)	5	2.80	1.00	0.00	1.80	2	2	G&L
D(9-8')	5	5.27	5.27	0.00	0.00	2	2	G&L
D(8'-8)	5	2.80	2.80	0.00	0.00	2	2	G&L
D(8-7)	5	4.21	2.41	1.80	0.00	2	2	G&L
D1(10-9')	5	1.41	1.41	0.00	0.00	7	2	G
D1(9'-9)	5	2.80	2.55	0.00	0.25	7	2	G
D1(9-8')	5	5.27	5.02	0.25	0.00	7	2	G
D1(8'-8)	5	2.80	2.55	0.00	0.25	7	2	G
D1(8-7)	5	4.21	3.96	0.25	0.00	7	2	G
E(10-9')	5	1.41	1.41	0.00	0.00	2	2	G&L
E(9'-9)	5	2.80	1.00	0.00	1.80	2	2	G&L
E(9-8')	5	5.27	5.27	0.00	0.00	2	2	G&L
E(8'-8)	5	2.80	2.80	0.00	0.00	2	2	G&L
E(8-7)	5	4.21	2.41	1.80	0.00	2	2	G&L
E'(10-9')	5	1.41	1.41	0.00	0.00	7	2	G
E'(9'-9)	5	2.80	2.55	0.00	0.25	7	2	G
E'(9-8')	5	5.27	5.02	0.25	0.00	7	2	G
E'(8'-8)	5	2.80	2.55	0.00	0.25	7	2	G
E'(8-7)	5	4.21	3.96	0.25	0.00	7	2	G
F(10-9')	5	1.41	1.01	0.00	0.40	2	2	G&L
F(9'-9)	5	2.80	2.40	0.00	0.40	2	2	G&L
F(9-8')	5	5.27	4.87	0.00	0.40	2	2	G&L
F(8'-8)	5	2.80	2.40	0.00	0.40	2	2	G&L
F(8-7)	5	4.21	4.21	0.00	0.00	2	2	G&L
F1(10-9')	5	1.41	1.16	0.00	0.25	4	2	G&L
F1(9'-9)	5	2.80	2.55	0.00	0.25	4	2	G&L
F1(9-8')	5	5.27	5.02	0.00	0.25	4	2	G&L
F1(8'-8)	5	2.80	2.55	0.00	0.25	4	2	G&L
F1(8-7)	5	4.21	4.21	0.00	0.00	4	2	G&L
F2(10-9')	5	1.41	1.16	0.00	0.25	4	2	G&L
F2(9'-9)	5	2.80	2.55	0.00	0.25	4	2	G&L
F2(9-8')	5	5.27	5.02	0.00	0.25	4	2	G&L
F2(8'-8)	5	2.80	2.55	0.00	0.25	4	2	G&L
F2(8-7)	5	4.21	4.21	0.00	0.00	4	2	G&L
F3(10-9')	5	1.41	1.16	0.00	0.25	4	2	G&L
F3(9'-9)	5	2.80	2.55	0.00	0.25	4	2	G&L
F3(9-8')	5	5.27	5.02	0.00	0.25	4	2	G&L
F3(8'-8)	5	2.80	2.55	0.00	0.25	4	2	G&L
F3(8-7)	5	4.21	4.21	0.00	0.00	4	2	G&L
G(10-9')	5	1.41	1.01	0.00	0.40	2	2	G&L
G(9'-9)	5	2.80	2.40	0.00	0.40	2	2	G&L
G(9-8')	5	5.27	4.87	0.00	0.40	2	2	G&L
G(8'-8)	5	2.80	2.40	0.00	0.40	2	2	G&L
G(8-7)	5	4.21	4.21	0.00	0.00	2	2	G&L
G'(10-9')	5	1.41	1.41	0.00	0.00	7	2	G
G'(9'-9)	5	2.80	2.55	0.00	0.25	7	2	G
G'(9-8')	5	5.27	5.02	0.25	0.00	7	2	G
G'(8'-8)	5	2.80	2.55	0.00	0.25	7	2	G
G'(8-7)	5	4.21	3.96	0.25	0.00	7	2	G
H(10-9')	5	1.41	1.41	0.00	0.00	2	2	G&L
H(9'-9)	5	2.80	1.00	0.00	1.80	2	2	G&L

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Beam	Floor	L	Lu	a	c	Sec	Mat	System
H(9-8')	5	5.27	5.27	0.00	0.00	2	2	G&L
H(8'-8)	5	2.80	2.80	0.00	0.00	2	2	G&L
H(8-7)	5	4.21	2.41	1.80	0.00	2	2	G&L
H1(10-9')	5	1.41	1.41	0.00	0.00	7	2	G
H1(9'-9)	5	2.80	2.55	0.00	0.25	7	2	G
H1(9-8')	5	5.27	5.02	0.25	0.00	7	2	G
H1(8'-8)	5	2.80	2.55	0.00	0.25	7	2	G
H1(8-7)	5	4.21	3.96	0.25	0.00	7	2	G
I(10-9')	5	1.41	1.41	0.00	0.00	2	2	G&L
I(9'-9)	5	2.80	1.00	0.00	1.80	2	2	G&L
I(9-8')	5	5.27	5.27	0.00	0.00	2	2	G&L
I(8'-8)	5	2.80	2.80	0.00	0.00	2	2	G&L
I(8-7)	5	4.21	2.41	1.80	0.00	2	2	G&L
I1(10-9')	5	1.41	1.41	0.00	0.00	7	2	G
I1(9'-9)	5	2.80	2.55	0.00	0.25	7	2	G
I1(9-8')	5	5.27	5.02	0.25	0.00	7	2	G
I1(8'-8)	5	2.80	2.55	0.00	0.25	7	2	G
I1(8-7)	5	4.21	3.96	0.25	0.00	7	2	G
J(10-9')	5	1.41	1.41	0.00	0.00	2	2	G&L
J(9'-9)	5	2.80	1.00	0.00	1.80	2	2	G&L
J(9-8')	5	5.27	5.27	0.00	0.00	2	2	G&L
J(8'-8)	5	2.80	2.80	0.00	0.00	2	2	G&L
J(8-7)	5	4.21	2.41	1.80	0.00	2	2	G&L
J1(10-9')	5	1.41	1.41	0.00	0.00	7	2	G
J1(9'-9)	5	2.80	2.55	0.00	0.25	7	2	G
J1(9-8')	5	5.27	5.02	0.25	0.00	7	2	G
J1(8'-8)	5	2.80	2.55	0.00	0.25	7	2	G
J1(8-7)	5	4.21	3.96	0.25	0.00	7	2	G
K(10-9')	5	1.41	1.41	0.00	0.00	2	2	G&L
K(9'-9)	5	2.80	1.00	0.00	1.80	2	2	G&L
K(9-8')	5	5.27	5.27	0.00	0.00	2	2	G&L
K(8'-8)	5	2.80	2.80	0.00	0.00	2	2	G&L
K(8-7)	5	4.21	2.41	1.80	0.00	2	2	G&L
K1(10-9')	5	1.41	1.41	0.00	0.00	7	2	G
K1(9'-9)	5	2.80	2.55	0.00	0.25	7	2	G
K1(9-8')	5	5.27	5.02	0.25	0.00	7	2	G
K1(8'-8)	5	2.80	2.55	0.00	0.25	7	2	G
K1(8-7)	5	4.21	3.96	0.25	0.00	7	2	G
L(10-9')	5	1.41	1.41	0.00	0.00	2	2	G&L
L(9'-9)	5	2.80	1.00	0.00	1.80	2	2	G&L
L(9-8')	5	5.27	3.47	1.80	0.00	2	2	G&L
L(8'-8)	5	2.80	2.80	0.00	0.00	2	2	G&L
L(8-7)	5	4.21	2.41	1.80	0.00	2	2	G&L
L1(10-9')	5	1.41	1.41	0.00	0.00	7	2	G
L1(9'-9)	5	2.80	2.55	0.00	0.25	7	2	G
L1(9-8')	5	5.27	5.02	0.25	0.00	7	2	G
L1(8'-8)	5	2.80	2.55	0.00	0.25	7	2	G
L1(8-7)	5	4.21	3.96	0.25	0.00	7	2	G
M(10-9')	5	1.41	1.31	0.10	0.00	6	4	G&L
M(9'-9)	5	2.80	2.60	0.00	0.20	6	4	G&L
M(9-8')	5	5.27	5.27	0.00	0.00	6	4	G&L
M(8'-8)	5	2.80	2.80	0.00	0.00	6	4	G&L
M(8-7)	5	4.21	3.91	0.20	0.10	6	4	G&L
B(10-9')	6	1.41	1.31	0.10	0.00	6	4	G&L
B(9'-9)	6	2.80	2.70	0.00	0.10	6	4	G&L
B(9-8')	6	5.27	5.17	0.10	0.00	6	4	G&L
B(8'-8)	6	2.80	2.70	0.00	0.10	6	4	G&L
B(8-7)	6	4.21	4.01	0.10	0.10	6	4	G&L
B'(10-9')	6	1.41	1.41	0.00	0.00	7	2	G
B'(9'-9)	6	2.80	2.55	0.00	0.25	7	2	G
B'(9-8')	6	5.27	5.02	0.25	0.00	7	2	G
B'(8'-8)	6	2.80	2.55	0.00	0.25	7	2	G
B'(8-7)	6	4.21	3.96	0.25	0.00	7	2	G
C(10-9')	6	1.41	1.41	0.00	0.00	2	2	G&L
C(9'-9)	6	2.80	1.00	0.00	1.80	2	2	G&L
C(9-8')	6	5.27	3.47	1.80	0.00	2	2	G&L
C(8'-8)	6	2.80	2.80	0.00	0.00	2	2	G&L
C(8-7)	6	4.21	2.41	1.80	0.00	2	2	G&L
C1(10-9')	6	1.41	1.41	0.00	0.00	7	2	G
C1(9'-9)	6	2.80	2.55	0.00	0.25	7	2	G
C1(9-8')	6	5.27	5.02	0.25	0.00	7	2	G
C1(8'-8)	6	2.80	2.55	0.00	0.25	7	2	G
C1(8-7)	6	4.21	3.96	0.25	0.00	7	2	G
D(10-9')	6	1.41	1.41	0.00	0.00	2	2	G&L

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Beam	Floor	L	Lu	a	c	Sec	Mat	System
D(9'-9)	6	2.80	1.00	0.00	1.80	2	2	G&L
D(9-8')	6	5.27	5.27	0.00	0.00	2	2	G&L
D(8'-8)	6	2.80	2.80	0.00	0.00	2	2	G&L
D(8-7)	6	4.21	2.41	1.80	0.00	2	2	G&L
D1(10-9')	6	1.41	1.41	0.00	0.00	7	2	G
D1(9'-9)	6	2.80	2.55	0.00	0.25	7	2	G
D1(9-8')	6	5.27	5.02	0.25	0.00	7	2	G
D1(8'-8)	6	2.80	2.55	0.00	0.25	7	2	G
D1(8-7)	6	4.21	3.96	0.25	0.00	7	2	G
E(10-9')	6	1.41	1.41	0.00	0.00	2	2	G&L
E(9'-9)	6	2.80	1.00	0.00	1.80	2	2	G&L
E(9-8')	6	5.27	5.27	0.00	0.00	2	2	G&L
E(8'-8)	6	2.80	2.80	0.00	0.00	2	2	G&L
E(8-7)	6	4.21	2.41	1.80	0.00	2	2	G&L
E'(10-9')	6	1.41	1.41	0.00	0.00	7	2	G
E'(9'-9)	6	2.80	2.55	0.00	0.25	7	2	G
E'(9-8')	6	5.27	5.02	0.25	0.00	7	2	G
E'(8'-8)	6	2.80	2.55	0.00	0.25	7	2	G
E'(8-7)	6	4.21	3.96	0.25	0.00	7	2	G
F(10-9')	6	1.41	1.01	0.00	0.40	2	2	G&L
F(9'-9)	6	2.80	2.40	0.00	0.40	2	2	G&L
F(9-8')	6	5.27	4.87	0.00	0.40	2	2	G&L
F(8'-8)	6	2.80	2.40	0.00	0.40	2	2	G&L
F(8-7)	6	4.21	4.21	0.00	0.00	2	2	G&L
F1(10-9')	6	1.41	1.16	0.00	0.25	4	2	G&L
F1(9'-9)	6	2.80	2.55	0.00	0.25	4	2	G&L
F1(9-8')	6	5.27	5.02	0.00	0.25	4	2	G&L
F1(8'-8)	6	2.80	2.55	0.00	0.25	4	2	G&L
F1(8-7)	6	4.21	4.21	0.00	0.00	4	2	G&L
F2(10-9')	6	1.41	1.16	0.00	0.25	4	2	G&L
F2(9'-9)	6	2.80	2.55	0.00	0.25	4	2	G&L
F2(9-8')	6	5.27	5.02	0.00	0.25	4	2	G&L
F2(8'-8)	6	2.80	2.55	0.00	0.25	4	2	G&L
F2(8-7)	6	4.21	4.21	0.00	0.00	4	2	G&L
F3(10-9')	6	1.41	1.16	0.00	0.25	4	2	G&L
F3(9'-9)	6	2.80	2.55	0.00	0.25	4	2	G&L
F3(9-8')	6	5.27	5.02	0.00	0.25	4	2	G&L
F3(8'-8)	6	2.80	2.55	0.00	0.25	4	2	G&L
F3(8-7)	6	4.21	4.21	0.00	0.00	4	2	G&L
G(10-9')	6	1.41	1.01	0.00	0.40	2	2	G&L
G(9'-9)	6	2.80	2.40	0.00	0.40	2	2	G&L
G(9-8')	6	5.27	4.87	0.00	0.40	2	2	G&L
G(8'-8)	6	2.80	2.40	0.00	0.40	2	2	G&L
G(8-7)	6	4.21	4.21	0.00	0.00	2	2	G&L
G'(10-9')	6	1.41	1.41	0.00	0.00	7	2	G
G'(9'-9)	6	2.80	2.55	0.00	0.25	7	2	G
G'(9-8')	6	5.27	5.02	0.25	0.00	7	2	G
G'(8'-8)	6	2.80	2.55	0.00	0.25	7	2	G
G'(8-7)	6	4.21	3.96	0.25	0.00	7	2	G
H(10-9')	6	1.41	1.41	0.00	0.00	2	2	G&L
H(9'-9)	6	2.80	1.00	0.00	1.80	2	2	G&L
H(9-8')	6	5.27	5.27	0.00	0.00	2	2	G&L
H(8'-8)	6	2.80	2.80	0.00	0.00	2	2	G&L
H(8-7)	6	4.21	2.41	1.80	0.00	2	2	G&L
H1(10-9')	6	1.41	1.41	0.00	0.00	7	2	G
H1(9'-9)	6	2.80	2.55	0.00	0.25	7	2	G
H1(9-8')	6	5.27	5.02	0.25	0.00	7	2	G
H1(8'-8)	6	2.80	2.55	0.00	0.25	7	2	G
H1(8-7)	6	4.21	3.96	0.25	0.00	7	2	G
I(10-9')	6	1.41	1.41	0.00	0.00	2	2	G&L
I(9'-9)	6	2.80	1.00	0.00	1.80	2	2	G&L
I(9-8')	6	5.27	5.27	0.00	0.00	2	2	G&L
I(8'-8)	6	2.80	2.80	0.00	0.00	2	2	G&L
I(8-7)	6	4.21	2.41	1.80	0.00	2	2	G&L
I1(10-9')	6	1.41	1.41	0.00	0.00	7	2	G
I1(9'-9)	6	2.80	2.55	0.00	0.25	7	2	G
I1(9-8')	6	5.27	5.02	0.25	0.00	7	2	G
I1(8'-8)	6	2.80	2.55	0.00	0.25	7	2	G
I1(8-7)	6	4.21	3.96	0.25	0.00	7	2	G
J(10-9')	6	1.41	1.41	0.00	0.00	2	2	G&L
J(9'-9)	6	2.80	1.00	0.00	1.80	2	2	G&L
J(9-8')	6	5.27	5.27	0.00	0.00	2	2	G&L
J(8'-8)	6	2.80	2.80	0.00	0.00	2	2	G&L
J(8-7)	6	4.21	2.41	1.80	0.00	2	2	G&L
J1(10-9')	6	1.41	1.41	0.00	0.00	7	2	G

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Beam	Floor	L	Lu	a	c	Sec	Mat	System
J1(9'-9)	6	2.80	2.55	0.00	0.25	7	2	G
J1(9-8')	6	5.27	5.02	0.25	0.00	7	2	G
J1(8'-8)	6	2.80	2.55	0.00	0.25	7	2	G
J1(8-7)	6	4.21	3.96	0.25	0.00	7	2	G
K(10-9')	6	1.41	1.41	0.00	0.00	2	2	G&L
K(9'-9)	6	2.80	1.00	0.00	1.80	2	2	G&L
K(9-8')	6	5.27	5.27	0.00	0.00	2	2	G&L
K(8'-8)	6	2.80	2.80	0.00	0.00	2	2	G&L
K(8-7)	6	4.21	2.41	1.80	0.00	2	2	G&L
K1(10-9')	6	1.41	1.41	0.00	0.00	7	2	G
K1(9'-9)	6	2.80	2.55	0.00	0.25	7	2	G
K1(9-8')	6	5.27	5.02	0.25	0.00	7	2	G
K1(8'-8)	6	2.80	2.55	0.00	0.25	7	2	G
K1(8-7)	6	4.21	3.96	0.25	0.00	7	2	G
L(10-9')	6	1.41	1.41	0.00	0.00	2	2	G&L
L(9'-9)	6	2.80	1.00	0.00	1.80	2	2	G&L
L(9-8')	6	5.27	3.47	1.80	0.00	2	2	G&L
L(8'-8)	6	2.80	2.80	0.00	0.00	2	2	G&L
L(8-7)	6	4.21	2.41	1.80	0.00	2	2	G&L
L1(10-9')	6	1.41	1.41	0.00	0.00	7	2	G
L1(9'-9)	6	2.80	2.55	0.00	0.25	7	2	G
L1(9-8')	6	5.27	5.02	0.25	0.00	7	2	G
L1(8'-8)	6	2.80	2.55	0.00	0.25	7	2	G
L1(8-7)	6	4.21	3.96	0.25	0.00	7	2	G
M(10-9')	6	1.41	1.31	0.10	0.00	6	4	G&L
M(9'-9)	6	2.80	2.60	0.00	0.20	6	4	G&L
M(9-8')	6	5.27	5.27	0.00	0.00	6	4	G&L
M(8'-8)	6	2.80	2.80	0.00	0.00	6	4	G&L
M(8-7)	6	4.21	3.91	0.20	0.10	6	4	G&L
B(10-9')	7	1.41	1.31	0.10	0.00	6	4	G&L
B(9'-9)	7	2.80	2.70	0.00	0.10	6	4	G&L
B(9-8')	7	5.27	5.17	0.10	0.00	6	4	G&L
B(8'-8)	7	2.80	2.70	0.00	0.10	6	4	G&L
B(8-7)	7	4.21	4.01	0.10	0.10	6	4	G&L
B'(10-9')	7	1.41	1.41	0.00	0.00	7	2	G
B'(9'-9)	7	2.80	2.55	0.00	0.25	7	2	G
B'(9-8')	7	5.27	5.02	0.25	0.00	7	2	G
B'(8'-8)	7	2.80	2.55	0.00	0.25	7	2	G
B'(8-7)	7	4.21	3.96	0.25	0.00	7	2	G
C(10-9')	7	1.41	1.41	0.00	0.00	2	2	G&L
C(9'-9)	7	2.80	1.00	0.00	1.80	2	2	G&L
C(9-8')	7	5.27	3.47	1.80	0.00	2	2	G&L
C(8'-8)	7	2.80	2.80	0.00	0.00	2	2	G&L
C(8-7)	7	4.21	2.41	1.80	0.00	2	2	G&L
C1(10-9')	7	1.41	1.41	0.00	0.00	7	2	G
C1(9'-9)	7	2.80	2.55	0.00	0.25	7	2	G
C1(9-8')	7	5.27	5.02	0.25	0.00	7	2	G
C1(8'-8)	7	2.80	2.55	0.00	0.25	7	2	G
C1(8-7)	7	4.21	3.96	0.25	0.00	7	2	G
D(10-9')	7	1.41	1.41	0.00	0.00	2	2	G&L
D(9'-9)	7	2.80	1.00	0.00	1.80	2	2	G&L
D(9-8')	7	5.27	5.27	0.00	0.00	2	2	G&L
D(8'-8)	7	2.80	2.80	0.00	0.00	2	2	G&L
D(8-7)	7	4.21	2.41	1.80	0.00	2	2	G&L
D1(10-9')	7	1.41	1.41	0.00	0.00	7	2	G
D1(9'-9)	7	2.80	2.55	0.00	0.25	7	2	G
D1(9-8')	7	5.27	5.02	0.25	0.00	7	2	G
D1(8'-8)	7	2.80	2.55	0.00	0.25	7	2	G
D1(8-7)	7	4.21	3.96	0.25	0.00	7	2	G
E(10-9')	7	1.41	1.41	0.00	0.00	2	2	G&L
E(9'-9)	7	2.80	1.00	0.00	1.80	2	2	G&L
E(9-8')	7	5.27	5.27	0.00	0.00	2	2	G&L
E(8'-8)	7	2.80	2.80	0.00	0.00	2	2	G&L
E(8-7)	7	4.21	2.41	1.80	0.00	2	2	G&L
E'(10-9')	7	1.41	1.41	0.00	0.00	7	2	G
E'(9'-9)	7	2.80	2.55	0.00	0.25	7	2	G
E'(9-8')	7	5.27	5.02	0.25	0.00	7	2	G
E'(8'-8)	7	2.80	2.55	0.00	0.25	7	2	G
E'(8-7)	7	4.21	3.96	0.25	0.00	7	2	G
F(10-9')	7	1.41	1.01	0.00	0.40	2	2	G&L
F(9'-9)	7	2.80	2.40	0.00	0.40	2	2	G&L
F(9-8')	7	5.27	4.87	0.00	0.40	2	2	G&L
F(8'-8)	7	2.80	2.40	0.00	0.40	2	2	G&L
F(8-7)	7	4.21	4.21	0.00	0.00	2	2	G&L

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Beam	Floor	L	Lu	a	c	Sec	Mat	System
F1(10-9')	7	1.41	1.16	0.00	0.25	4	2	G&L
F1(9'-9)	7	2.80	2.55	0.00	0.25	4	2	G&L
F1(9-8')	7	5.27	5.02	0.00	0.25	4	2	G&L
F1(8'-8)	7	2.80	2.55	0.00	0.25	4	2	G&L
F1(8-7)	7	4.21	4.21	0.00	0.00	4	2	G&L
F2(10-9')	7	1.41	1.16	0.00	0.25	4	2	G&L
F2(9'-9)	7	2.80	2.55	0.00	0.25	4	2	G&L
F2(9-8')	7	5.27	5.02	0.00	0.25	4	2	G&L
F2(8'-8)	7	2.80	2.55	0.00	0.25	4	2	G&L
F2(8-7)	7	4.21	4.21	0.00	0.00	4	2	G&L
F3(10-9')	7	1.41	1.16	0.00	0.25	4	2	G&L
F3(9'-9)	7	2.80	2.55	0.00	0.25	4	2	G&L
F3(9-8')	7	5.27	5.02	0.00	0.25	4	2	G&L
F3(8'-8)	7	2.80	2.55	0.00	0.25	4	2	G&L
F3(8-7)	7	4.21	4.21	0.00	0.00	4	2	G&L
G(10-9')	7	1.41	1.01	0.00	0.40	2	2	G&L
G(9'-9)	7	2.80	2.40	0.00	0.40	2	2	G&L
G(9-8')	7	5.27	4.87	0.00	0.40	2	2	G&L
G(8'-8)	7	2.80	2.40	0.00	0.40	2	2	G&L
G(8-7)	7	4.21	4.21	0.00	0.00	2	2	G&L
G'(10-9')	7	1.41	1.41	0.00	0.00	7	2	G
G'(9'-9)	7	2.80	2.55	0.00	0.25	7	2	G
G'(9-8')	7	5.27	5.02	0.25	0.00	7	2	G
G'(8'-8)	7	2.80	2.55	0.00	0.25	7	2	G
G'(8-7)	7	4.21	3.96	0.25	0.00	7	2	G
H(10-9')	7	1.41	1.41	0.00	0.00	2	2	G&L
H(9'-9)	7	2.80	1.00	0.00	1.80	2	2	G&L
H(9-8')	7	5.27	5.27	0.00	0.00	2	2	G&L
H(8'-8)	7	2.80	2.80	0.00	0.00	2	2	G&L
H(8-7)	7	4.21	2.41	1.80	0.00	2	2	G&L
H1(10-9')	7	1.41	1.41	0.00	0.00	7	2	G
H1(9'-9)	7	2.80	2.55	0.00	0.25	7	2	G
H1(9-8')	7	5.27	5.02	0.25	0.00	7	2	G
H1(8'-8)	7	2.80	2.55	0.00	0.25	7	2	G
H1(8-7)	7	4.21	3.96	0.25	0.00	7	2	G
I(10-9')	7	1.41	1.41	0.00	0.00	2	2	G&L
I(9'-9)	7	2.80	1.00	0.00	1.80	2	2	G&L
I(9-8')	7	5.27	5.27	0.00	0.00	2	2	G&L
I(8'-8)	7	2.80	2.80	0.00	0.00	2	2	G&L
I(8-7)	7	4.21	2.41	1.80	0.00	2	2	G&L
I1(10-9')	7	1.41	1.41	0.00	0.00	7	2	G
I1(9'-9)	7	2.80	2.55	0.00	0.25	7	2	G
I1(9-8')	7	5.27	5.02	0.25	0.00	7	2	G
I1(8'-8)	7	2.80	2.55	0.00	0.25	7	2	G
I1(8-7)	7	4.21	3.96	0.25	0.00	7	2	G
J(10-9')	7	1.41	1.41	0.00	0.00	2	2	G&L
J(9'-9)	7	2.80	1.00	0.00	1.80	2	2	G&L
J(9-8')	7	5.27	5.27	0.00	0.00	2	2	G&L
J(8'-8)	7	2.80	2.80	0.00	0.00	2	2	G&L
J(8-7)	7	4.21	2.41	1.80	0.00	2	2	G&L
J1(10-9')	7	1.41	1.41	0.00	0.00	7	2	G
J1(9'-9)	7	2.80	2.55	0.00	0.25	7	2	G
J1(9-8')	7	5.27	5.02	0.25	0.00	7	2	G
J1(8'-8)	7	2.80	2.55	0.00	0.25	7	2	G
J1(8-7)	7	4.21	3.96	0.25	0.00	7	2	G
K(10-9')	7	1.41	1.41	0.00	0.00	2	2	G&L
K(9'-9)	7	2.80	1.00	0.00	1.80	2	2	G&L
K(9-8')	7	5.27	5.27	0.00	0.00	2	2	G&L
K(8'-8)	7	2.80	2.80	0.00	0.00	2	2	G&L
K(8-7)	7	4.21	2.41	1.80	0.00	2	2	G&L
K1(10-9')	7	1.41	1.41	0.00	0.00	7	2	G
K1(9'-9)	7	2.80	2.55	0.00	0.25	7	2	G
K1(9-8')	7	5.27	5.02	0.25	0.00	7	2	G
K1(8'-8)	7	2.80	2.55	0.00	0.25	7	2	G
K1(8-7)	7	4.21	3.96	0.25	0.00	7	2	G
L(10-9')	7	1.41	1.41	0.00	0.00	2	2	G&L
L(9'-9)	7	2.80	1.00	0.00	1.80	2	2	G&L
L(9-8')	7	5.27	3.47	1.80	0.00	2	2	G&L
L(8'-8)	7	2.80	2.80	0.00	0.00	2	2	G&L
L(8-7)	7	4.21	2.41	1.80	0.00	2	2	G&L
L1(10-9')	7	1.41	1.41	0.00	0.00	7	2	G
L1(9'-9)	7	2.80	2.55	0.00	0.25	7	2	G
L1(9-8')	7	5.27	5.02	0.25	0.00	7	2	G
L1(8'-8)	7	2.80	2.55	0.00	0.25	7	2	G
L1(8-7)	7	4.21	3.96	0.25	0.00	7	2	G

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Beam	Floor	L	Lu	a	c	Sec	Mat	System
M(10-9')	7	1.41	1.31	0.10	0.00	6	4	G&L
M(9'-9)	7	2.80	2.60	0.00	0.20	6	4	G&L
M(9-8')	7	5.27	5.27	0.00	0.00	6	4	G&L
M(8'-8)	7	2.80	2.80	0.00	0.00	6	4	G&L
M(8-7)	7	4.21	3.91	0.20	0.10	6	4	G&L
B(10-9')	8	1.41	1.31	0.10	0.00	6	4	G&L
B(9'-9)	8	2.80	2.70	0.00	0.10	6	4	G&L
B(9-8')	8	5.27	5.17	0.10	0.00	6	4	G&L
B(8'-8)	8	2.80	2.70	0.00	0.10	6	4	G&L
B(8-7)	8	4.21	4.01	0.10	0.10	6	4	G&L
B'(10-9')	8	1.41	1.41	0.00	0.00	6	4	G
B'(9'-9)	8	2.80	2.70	0.00	0.10	6	4	G
B'(9-8')	8	5.27	5.17	0.10	0.00	6	4	G
B'(8'-8)	8	2.80	2.70	0.00	0.10	6	4	G
B'(8-7)	8	4.21	4.11	0.10	0.00	6	4	G
C(10-9')	8	1.41	1.41	0.00	0.00	6	4	G&L
C(9'-9)	8	2.80	1.00	0.00	1.80	6	4	G&L
C(9-8')	8	5.27	3.47	1.80	0.00	6	4	G&L
C(8'-8)	8	2.80	2.80	0.00	0.00	6	4	G&L
C(8-7)	8	4.21	2.41	1.80	0.00	6	4	G&L
C1(10-9')	8	1.41	1.41	0.00	0.00	6	4	G
C1(9'-9)	8	2.80	2.70	0.00	0.10	6	4	G
C1(9-8')	8	5.27	5.17	0.10	0.00	6	4	G
C1(8'-8)	8	2.80	2.70	0.00	0.10	6	4	G
C1(8-7)	8	4.21	4.11	0.10	0.00	6	4	G
D(10-9')	8	1.41	1.41	0.00	0.00	6	4	G&L
D(9'-9)	8	2.80	1.00	0.00	1.80	6	4	G&L
D(9-8')	8	5.27	5.27	0.00	0.00	6	4	G&L
D(8'-8)	8	2.80	2.80	0.00	0.00	6	4	G&L
D(8-7)	8	4.21	2.41	1.80	0.00	6	4	G&L
D1(10-9')	8	1.41	1.41	0.00	0.00	6	4	G
D1(9'-9)	8	2.80	2.70	0.00	0.10	6	4	G
D1(9-8')	8	5.27	5.17	0.10	0.00	6	4	G
D1(8'-8)	8	2.80	2.70	0.00	0.10	6	4	G
D1(8-7)	8	4.21	4.11	0.10	0.00	6	4	G
E(10-9')	8	1.41	1.41	0.00	0.00	6	4	G&L
E(9'-9)	8	2.80	1.00	0.00	1.80	6	4	G&L
E(9-8')	8	5.27	5.27	0.00	0.00	6	4	G&L
E(8'-8)	8	2.80	2.80	0.00	0.00	6	4	G&L
E(8-7)	8	4.21	2.41	1.80	0.00	6	4	G&L
E'(10-9')	8	1.41	1.41	0.00	0.00	6	4	G
E'(9'-9)	8	2.80	2.70	0.00	0.10	6	4	G
E'(9-8')	8	5.27	5.17	0.10	0.00	6	4	G
E'(8'-8)	8	2.80	2.70	0.00	0.10	6	4	G
E'(8-7)	8	4.21	4.11	0.10	0.00	6	4	G
F(10-9')	8	1.41	1.01	0.00	0.40	6	4	G&L
F(9'-9)	8	2.80	2.40	0.00	0.40	6	4	G&L
F(9-8')	8	5.27	4.87	0.00	0.40	6	4	G&L
F(8'-8)	8	2.80	2.40	0.00	0.40	6	4	G&L
F(8-7)	8	4.21	4.21	0.00	0.00	6	4	G&L
F1(10-9')	8	1.41	1.16	0.00	0.25	6	4	G&L
F1(9'-9)	8	2.80	2.55	0.00	0.25	6	4	G&L
F1(9-8')	8	5.27	5.02	0.00	0.25	6	4	G&L
F1(8'-8)	8	2.80	2.55	0.00	0.25	6	4	G&L
F1(8-7)	8	4.21	4.21	0.00	0.00	6	4	G&L
F2(10-9')	8	1.41	1.16	0.00	0.25	6	4	G&L
F2(9'-9)	8	2.80	2.55	0.00	0.25	6	4	G&L
F2(9-8')	8	5.27	5.02	0.00	0.25	6	4	G&L
F2(8'-8)	8	2.80	2.55	0.00	0.25	6	4	G&L
F2(8-7)	8	4.21	4.21	0.00	0.00	6	4	G&L
F3(10-9')	8	1.41	1.16	0.00	0.25	6	4	G&L
F3(9'-9)	8	2.80	2.55	0.00	0.25	6	4	G&L
F3(9-8')	8	5.27	5.02	0.00	0.25	6	4	G&L
F3(8'-8)	8	2.80	2.55	0.00	0.25	6	4	G&L
F3(8-7)	8	4.21	4.21	0.00	0.00	6	4	G&L
G(10-9')	8	1.41	1.01	0.00	0.40	6	4	G&L
G(9'-9)	8	2.80	2.40	0.00	0.40	6	4	G&L
G(9-8')	8	5.27	4.87	0.00	0.40	6	4	G&L
G(8'-8)	8	2.80	2.40	0.00	0.40	6	4	G&L
G(8-7)	8	4.21	4.21	0.00	0.00	6	4	G&L
G'(10-9')	8	1.41	1.41	0.00	0.00	6	4	G
G'(9'-9)	8	2.80	2.70	0.00	0.10	6	4	G
G'(9-8')	8	5.27	5.17	0.10	0.00	6	4	G
G'(8'-8)	8	2.80	2.70	0.00	0.10	6	4	G

Beam	Floor	L	Lu	a	c	Sec	Mat	System
G'(8-7)	8	4.21	4.11	0.10	0.00	6	4	G
H(10-9')	8	1.41	1.41	0.00	0.00	6	4	G&L
H(9'-9)	8	2.80	1.00	0.00	1.80	6	4	G&L
H(9-8')	8	5.27	5.27	0.00	0.00	6	4	G&L
H(8'-8)	8	2.80	2.80	0.00	0.00	6	4	G&L
H(8-7)	8	4.21	2.41	1.80	0.00	6	4	G&L
H1(10-9')	8	1.41	1.41	0.00	0.00	6	4	G
H1(9'-9)	8	2.80	2.70	0.00	0.10	6	4	G
H1(9-8')	8	5.27	5.17	0.10	0.00	6	4	G
H1(8'-8)	8	2.80	2.70	0.00	0.10	6	4	G
H1(8-7)	8	4.21	4.11	0.10	0.00	6	4	G
I(10-9')	8	1.41	1.41	0.00	0.00	6	4	G&L
I(9'-9)	8	2.80	1.00	0.00	1.80	6	4	G&L
I(9-8')	8	5.27	5.27	0.00	0.00	6	4	G&L
I(8'-8)	8	2.80	2.80	0.00	0.00	6	4	G&L
I(8-7)	8	4.21	2.41	1.80	0.00	6	4	G&L
I1(10-9')	8	1.41	1.41	0.00	0.00	6	4	G
I1(9'-9)	8	2.80	2.70	0.00	0.10	6	4	G
I1(9-8')	8	5.27	5.17	0.10	0.00	6	4	G
I1(8'-8)	8	2.80	2.70	0.00	0.10	6	4	G
I1(8-7)	8	4.21	4.11	0.10	0.00	6	4	G
J(10-9')	8	1.41	1.41	0.00	0.00	6	4	G&L
J(9'-9)	8	2.80	1.00	0.00	1.80	6	4	G&L
J(9-8')	8	5.27	5.27	0.00	0.00	6	4	G&L
J(8'-8)	8	2.80	2.80	0.00	0.00	6	4	G&L
J(8-7)	8	4.21	2.41	1.80	0.00	6	4	G&L
J1(10-9')	8	1.41	1.41	0.00	0.00	6	4	G
J1(9'-9)	8	2.80	2.70	0.00	0.10	6	4	G
J1(9-8')	8	5.27	5.17	0.10	0.00	6	4	G
J1(8'-8)	8	2.80	2.70	0.00	0.10	6	4	G
J1(8-7)	8	4.21	4.11	0.10	0.00	6	4	G
K(10-9')	8	1.41	1.41	0.00	0.00	6	4	G&L
K(9'-9)	8	2.80	1.00	0.00	1.80	6	4	G&L
K(9-8')	8	5.27	5.27	0.00	0.00	6	4	G&L
K(8'-8)	8	2.80	2.80	0.00	0.00	6	4	G&L
K(8-7)	8	4.21	2.41	1.80	0.00	6	4	G&L
K1(10-9')	8	1.41	1.41	0.00	0.00	6	4	G
K1(9'-9)	8	2.80	2.70	0.00	0.10	6	4	G
K1(9-8')	8	5.27	5.17	0.10	0.00	6	4	G
K1(8'-8)	8	2.80	2.70	0.00	0.10	6	4	G
K1(8-7)	8	4.21	4.11	0.10	0.00	6	4	G
L(10-9')	8	1.41	1.41	0.00	0.00	6	4	G&L
L(9'-9)	8	2.80	1.00	0.00	1.80	6	4	G&L
L(9-8')	8	5.27	3.47	1.80	0.00	6	4	G&L
L(8'-8)	8	2.80	2.80	0.00	0.00	6	4	G&L
L(8-7)	8	4.21	2.41	1.80	0.00	6	4	G&L
L1(10-9')	8	1.41	1.41	0.00	0.00	6	4	G
L1(9'-9)	8	2.80	2.70	0.00	0.10	6	4	G
L1(9-8')	8	5.27	5.17	0.10	0.00	6	4	G
L1(8'-8)	8	2.80	2.70	0.00	0.10	6	4	G
L1(8-7)	8	4.21	4.11	0.10	0.00	6	4	G
M(10-9')	8	1.41	1.31	0.10	0.00	6	4	G&L
M(9'-9)	8	2.80	2.60	0.00	0.20	6	4	G&L
M(9-8')	8	5.27	5.27	0.00	0.00	6	4	G&L
M(8'-8)	8	2.80	2.80	0.00	0.00	6	4	G&L
M(8-7)	8	4.21	3.91	0.20	0.10	6	4	G&L
9B-8'B'	3	5.66	5.56	0.10	0.00	6	4	G&L

WALL DATA

Total number of wall panels..... = 154

WALL PANELS

Wall	Story	B (m)	H (m)	t (cm)	Material -	System -
10(B'-C)	S	3.80	3.50	25.0	2	G&L
10(C-C1)	S	3.75	3.50	25.0	2	G&L

Wall	Story	B	H	t	Material	System
10(C1-D)	S	3.75	3.50	25.0	2	G&L
10(F-F1)	S	1.80	3.50	25.0	2	G&L
10(F1-F2)	S	2.10	3.50	25.0	2	G&L
10(F2-F3)	S	2.10	3.50	25.0	2	G&L
10(F3-G)	S	2.20	3.50	25.0	2	G&L
10(G-G')	S	3.60	3.50	25.0	2	G&L
10(G'-H)	S	3.60	3.50	25.0	2	G&L
10(H-H1)	S	3.55	3.50	25.0	2	G&L
10(H1-I)	S	3.55	3.50	25.0	2	G&L
9'(F1-F2)	S	2.10	3.50	25.0	1	G&L
9'(F2-F3)	S	2.10	3.50	25.0	1	G&L
8(F1-F2)	S	2.10	3.50	25.0	1	G&L
8(F2-F3)	S	2.10	3.50	25.0	1	G&L
7(B'-C)	S	3.80	3.50	25.0	2	G&L
7(C-C1)	S	3.75	3.50	25.0	2	G&L
7(C1-D)	S	3.75	3.50	25.0	2	G&L
7(F-F1)	S	1.80	3.50	25.0	2	G&L
7(F1-F2)	S	2.10	3.50	25.0	2	G&L
7(F2-F3)	S	2.10	3.50	25.0	2	G&L
7(F3-G)	S	2.20	3.50	25.0	2	G&L
7(G-G')	S	3.60	3.50	25.0	2	G&L
7(G'-H)	S	3.60	3.50	25.0	2	G&L
7(H-H1)	S	3.55	3.50	25.0	2	G&L
7(H1-I)	S	3.55	3.50	25.0	2	G&L
B'(10-9')	S	1.41	3.50	25.0	2	G&L
B'(9'-9)	S	2.80	3.50	25.0	2	G&L
B'(9-8')	S	5.27	3.50	25.0	2	G&L
B'(8'-8)	S	2.80	3.50	25.0	2	G&L
B'(8-7)	S	4.21	3.50	25.0	2	G&L
D(11'-10)	S	2.20	3.50	25.0	2	G&L
D(7-6')	S	2.43	3.50	25.0	2	G&L
F(11'-10)	S	2.20	3.50	25.0	2	G&L
F(9'-9)	S	2.80	3.50	40.0	2	G&L
F(8'-8)	S	2.80	3.50	40.0	2	G&L
F(7-6')	S	2.43	3.50	25.0	2	G&L
F1(9'-9)	S	2.80	3.50	25.0	2	G&L
F1(8'-8)	S	2.80	3.50	25.0	2	G&L
F2(9'-9)	S	2.80	3.50	25.0	2	G&L
F2(8'-8)	S	2.80	3.50	25.0	2	G&L
F3(9'-9)	S	2.80	3.50	25.0	2	G&L
F3(8'-8)	S	2.80	3.50	25.0	2	G&L
G(9'-9)	S	2.80	3.50	40.0	2	G&L
G(8'-8)	S	2.80	3.50	40.0	2	G&L
I(11-11')	S	3.52	3.50	25.0	2	G&L
I(11'-10)	S	2.20	3.50	25.0	2	G&L
I(7-6')	S	2.43	3.50	25.0	2	G&L
P(11-11')	S	3.52	3.50	25.0	2	G&L
P(11'-10)	S	2.20	3.50	25.0	2	G&L
P(10-9')	S	1.41	3.50	25.0	2	G&L
P(9'-9)	S	2.80	3.50	25.0	2	G&L
P(9-8')	S	5.27	3.50	25.0	2	G&L
P(8'-8)	S	2.80	3.50	25.0	2	G&L
P(8-7)	S	4.21	3.50	25.0	2	G&L
P(7-6')	S	2.43	3.50	25.0	2	G&L
9'(F1-F2)	1	2.10	4.90	25.0	1	G&L
9'(F2-F3)	1	2.10	4.90	25.0	1	G&L
8(F1-F2)	1	2.10	4.90	25.0	1	G&L
8(F2-F3)	1	2.10	4.90	25.0	1	G&L
F(9'-9)	1	2.80	4.90	40.0	2	G&L
F(8'-8)	1	2.80	4.90	40.0	2	G&L
F1(9'-9)	1	2.80	4.90	25.0	2	G&L
F1(8'-8)	1	2.80	4.90	25.0	2	G&L
F2(9'-9)	1	2.80	4.90	25.0	2	G&L
F2(8'-8)	1	2.80	4.90	25.0	2	G&L
F3(9'-9)	1	2.80	4.90	25.0	2	G&L
F3(8'-8)	1	2.80	4.90	25.0	2	G&L
G(9'-9)	1	2.80	4.90	40.0	2	G&L
G(8'-8)	1	2.80	4.90	40.0	2	G&L
9'(F1-F2)	2	2.10	4.90	25.0	1	G&L
9'(F2-F3)	2	2.10	4.90	25.0	1	G&L
8(F1-F2)	2	2.10	4.90	25.0	1	G&L
8(F2-F3)	2	2.10	4.90	25.0	1	G&L
F(9'-9)	2	2.80	4.90	40.0	2	G&L

Wall	Story	B	H	t	Material	System
F(8'-8)	2	2.80	4.90	40.0	2	G&L
F1(9'-9)	2	2.80	4.90	25.0	2	G&L
F1(8'-8)	2	2.80	4.90	25.0	2	G&L
F2(9'-9)	2	2.80	4.90	25.0	2	G&L
F2(8'-8)	2	2.80	4.90	25.0	2	G&L
F3(9'-9)	2	2.80	4.90	25.0	2	G&L
F3(8'-8)	2	2.80	4.90	25.0	2	G&L
G(9'-9)	2	2.80	4.90	40.0	2	G&L
G(8'-8)	2	2.80	4.90	40.0	2	G&L
9'(F1-F2)	3	2.10	3.50	25.0	1	G&L
9'(F2-F3)	3	2.10	3.50	25.0	1	G&L
8(F1-F2)	3	2.10	3.50	25.0	1	G&L
8(F2-F3)	3	2.10	3.50	25.0	1	G&L
F(9'-9)	3	2.80	3.50	40.0	2	G&L
F(8'-8)	3	2.80	3.50	40.0	2	G&L
F1(9'-9)	3	2.80	3.50	25.0	2	G&L
F1(8'-8)	3	2.80	3.50	25.0	2	G&L
F2(9'-9)	3	2.80	3.50	25.0	2	G&L
F2(8'-8)	3	2.80	3.50	25.0	2	G&L
F3(9'-9)	3	2.80	3.50	25.0	2	G&L
F3(8'-8)	3	2.80	3.50	25.0	2	G&L
G(9'-9)	3	2.80	3.50	40.0	2	G&L
G(8'-8)	3	2.80	3.50	40.0	2	G&L
9'(F1-F2)	4	2.10	3.50	25.0	1	G&L
9'(F2-F3)	4	2.10	3.50	25.0	1	G&L
8(F1-F2)	4	2.10	3.50	25.0	1	G&L
8(F2-F3)	4	2.10	3.50	25.0	1	G&L
F(9'-9)	4	2.80	3.50	40.0	2	G&L
F(8'-8)	4	2.80	3.50	40.0	2	G&L
F1(9'-9)	4	2.80	3.50	25.0	2	G&L
F1(8'-8)	4	2.80	3.50	25.0	2	G&L
F2(9'-9)	4	2.80	3.50	25.0	2	G&L
F2(8'-8)	4	2.80	3.50	25.0	2	G&L
F3(9'-9)	4	2.80	3.50	25.0	2	G&L
F3(8'-8)	4	2.80	3.50	25.0	2	G&L
G(9'-9)	4	2.80	3.50	40.0	2	G&L
G(8'-8)	4	2.80	3.50	40.0	2	G&L
9'(F1-F2)	5	2.10	3.50	25.0	1	G&L
9'(F2-F3)	5	2.10	3.50	25.0	1	G&L
8(F1-F2)	5	2.10	3.50	25.0	1	G&L
8(F2-F3)	5	2.10	3.50	25.0	1	G&L
F(9'-9)	5	2.80	3.50	40.0	2	G&L
F(8'-8)	5	2.80	3.50	40.0	2	G&L
F1(9'-9)	5	2.80	3.50	25.0	2	G&L
F1(8'-8)	5	2.80	3.50	25.0	2	G&L
F2(9'-9)	5	2.80	3.50	25.0	2	G&L
F2(8'-8)	5	2.80	3.50	25.0	2	G&L
F3(9'-9)	5	2.80	3.50	25.0	2	G&L
F3(8'-8)	5	2.80	3.50	25.0	2	G&L
G(9'-9)	5	2.80	3.50	40.0	2	G&L
G(8'-8)	5	2.80	3.50	40.0	2	G&L
9'(F1-F2)	6	2.10	3.50	25.0	1	G&L
9'(F2-F3)	6	2.10	3.50	25.0	1	G&L
8(F1-F2)	6	2.10	3.50	25.0	1	G&L
8(F2-F3)	6	2.10	3.50	25.0	1	G&L
F(9'-9)	6	2.80	3.50	40.0	2	G&L
F(8'-8)	6	2.80	3.50	40.0	2	G&L
F1(9'-9)	6	2.80	3.50	25.0	2	G&L
F1(8'-8)	6	2.80	3.50	25.0	2	G&L
F2(9'-9)	6	2.80	3.50	25.0	2	G&L
F2(8'-8)	6	2.80	3.50	25.0	2	G&L
F3(9'-9)	6	2.80	3.50	25.0	2	G&L
F3(8'-8)	6	2.80	3.50	25.0	2	G&L
G(9'-9)	6	2.80	3.50	40.0	2	G&L
G(8'-8)	6	2.80	3.50	40.0	2	G&L
9'(F1-F2)	7	2.10	3.50	25.0	1	G&L
9'(F2-F3)	7	2.10	3.50	25.0	1	G&L
8(F1-F2)	7	2.10	3.50	25.0	1	G&L
8(F2-F3)	7	2.10	3.50	25.0	1	G&L
F(9'-9)	7	2.80	3.50	40.0	2	G&L

Wall	Story	B	H	t	Material	System
F(8'-8)	7	2.80	3.50	40.0	2	G&L
F1(9'-9)	7	2.80	3.50	25.0	2	G&L
F1(8'-8)	7	2.80	3.50	25.0	2	G&L
F2(9'-9)	7	2.80	3.50	25.0	2	G&L
F2(8'-8)	7	2.80	3.50	25.0	2	G&L
F3(9'-9)	7	2.80	3.50	25.0	2	G&L
F3(8'-8)	7	2.80	3.50	25.0	2	G&L
G(9'-9)	7	2.80	3.50	40.0	2	G&L
G(8'-8)	7	2.80	3.50	40.0	2	G&L

SLAB PROPERTIES AND FLOOR LOAD DATA

Number of slab sections = 2

Floor Type:

1: One-way joist slab 2: One-way flat slab
3: Two-way joist slab 4: Two-way flat slab
5: One-way deck on secondary beams

No	Name	Type	tv (cm)	γ (Kg/m3)	(Kg/m2)	(Kg/m2)	(Kg/m2)	(cm)	(cm)	(cm)	(cm)	
1	Slab type 2	2	11.00	2400.0	400.00	250.00	0.00	-	-	-	-	Longitudinal
2	Slab type 3	2	2.00	2400.0	0.00	50.00	0.00	-	-	-	-	Longitudinal

GROUND SUPPORT DATA

Total number of ground supports = 75

K = Spring constant(ton/cm)

Characteristics for All Degrees of Freedom
Value = K Dash = free C = constrained

Support	Floor	Type	Ux	Uy	Uz	TetX	TetY	TetZ
10-B'	S	Hinge	C	C	C	-	-	C
9-B'	S	Hinge	C	C	C	-	-	C
8-B'	S	Hinge	C	C	C	-	-	C
7-B'	S	Hinge	C	C	C	-	-	C
10-C	S	Hinge	C	C	C	-	-	C
9-C	S	Fixed	C	C	C	C	C	C
8-C	S	Fixed	C	C	C	C	C	C
7-C	S	Hinge	C	C	C	-	-	C
11'-D	S	Hinge	C	C	C	-	-	C
10-D	S	Hinge	C	C	C	-	-	C
9-D	S	Fixed	C	C	C	C	C	C
8-D	S	Fixed	C	C	C	C	C	C
7-D	S	Hinge	C	C	C	-	-	C
6'-D	S	Hinge	C	C	C	-	-	C
9-E	S	Fixed	C	C	C	C	C	C
8-E	S	Fixed	C	C	C	C	C	C
11'-F	S	Hinge	C	C	C	-	-	C
10-F	S	Hinge	C	C	C	-	-	C
9'-F	S	Hinge	C	C	C	-	-	C
9-F	S	Hinge	C	C	C	-	-	C
8'-F	S	Hinge	C	C	C	-	-	C
8-F	S	Hinge	C	C	C	-	-	C
7-F	S	Hinge	C	C	C	-	-	C
6'-F	S	Hinge	C	C	C	-	-	C

Support	Floor	Type	Ux	Uy	Uz	TetX	TetY	TetZ
9'-F1	S	Hinge	C	C	C	-	-	C
9-F1	S	Hinge	C	C	C	-	-	C
8'-F1	S	Hinge	C	C	C	-	-	C
8-F1	S	Hinge	C	C	C	-	-	C
9'-F2	S	Hinge	C	C	C	-	-	C
9-F2	S	Hinge	C	C	C	-	-	C
8'-F2	S	Hinge	C	C	C	-	-	C
8-F2	S	Hinge	C	C	C	-	-	C
9'-F3	S	Hinge	C	C	C	-	-	C
9-F3	S	Hinge	C	C	C	-	-	C
8'-F3	S	Hinge	C	C	C	-	-	C
8-F3	S	Hinge	C	C	C	-	-	C
10-G	S	Hinge	C	C	C	-	-	C
9'-G	S	Hinge	C	C	C	-	-	C
9-G	S	Hinge	C	C	C	-	-	C
8'-G	S	Hinge	C	C	C	-	-	C
8-G	S	Hinge	C	C	C	-	-	C
7-G	S	Hinge	C	C	C	-	-	C
10-H	S	Hinge	C	C	C	-	-	C
9-H	S	Fixed	C	C	C	C	C	C
8-H	S	Fixed	C	C	C	C	C	C
7-H	S	Hinge	C	C	C	-	-	C
11-I	S	Hinge	C	C	C	-	-	C
10-I	S	Fixed	C	C	C	C	C	C
9-I	S	Fixed	C	C	C	C	C	C
8-I	S	Fixed	C	C	C	C	C	C
7-I	S	Hinge	C	C	C	-	-	C
6'-I	S	Hinge	C	C	C	-	-	C
10-J	S	Fixed	C	C	C	C	C	C
9-J	S	Fixed	C	C	C	C	C	C
8-J	S	Fixed	C	C	C	C	C	C
10-K	S	Fixed	C	C	C	C	C	C
9-K	S	Fixed	C	C	C	C	C	C
8-K	S	Fixed	C	C	C	C	C	C
10-L	S	Fixed	C	C	C	C	C	C
9-L	S	Fixed	C	C	C	C	C	C
8-L	S	Fixed	C	C	C	C	C	C
10-M	S	Fixed	C	C	C	C	C	C
9-M	S	Fixed	C	C	C	C	C	C
8-M	S	Fixed	C	C	C	C	C	C
10-N	S	Fixed	C	C	C	C	C	C
9-N	S	Fixed	C	C	C	C	C	C
8-N	S	Fixed	C	C	C	C	C	C
10-O	S	Fixed	C	C	C	C	C	C
9-O	S	Fixed	C	C	C	C	C	C
8-O	S	Fixed	C	C	C	C	C	C
11-P	S	Hinge	C	C	C	-	-	C
10-P	S	Hinge	C	C	C	-	-	C
9-P	S	Hinge	C	C	C	-	-	C
8-P	S	Hinge	C	C	C	-	-	C
6'-P	S	Hinge	C	C	C	-	-	C

SUMMARY OF TOTAL FLOOR LOADS

LOAD CASE 1 : SELFW (D0)

	Force (ton)			Moment (ton-m)		
Floor	Px	Py	Pz	Mx	My	Mz
8	0.00	0.00	249.13	0.0	0.0	0.0
7	0.00	0.00	577.36	0.0	0.0	0.0
6	0.00	0.00	577.36	0.0	0.0	0.0
5	0.00	0.00	577.36	0.0	0.0	0.0
4	0.00	0.00	573.43	0.0	0.0	0.0
3	0.00	0.00	808.08	0.0	0.0	0.0
2	0.00	0.00	700.70	0.0	0.0	0.0
1	0.00	0.00	1150.49	0.0	0.0	0.0
S	0.00	0.00	0.00	0.0	0.0	0.0
Total	0.00	0.00	5213.90	0.0	0.0	0.0

LOAD CASE 2 : DEAD (DL)

	Force (ton)			Moment (ton-m)		
Floor	Px	Py	Pz	Mx	My	Mz
8	0.00	0.00	66.29	0.0	0.0	0.0
7	0.00	0.00	806.13	0.0	0.0	0.0
6	0.00	0.00	806.13	0.0	0.0	0.0
5	0.00	0.00	806.13	0.0	0.0	0.0
4	0.00	0.00	806.13	0.0	0.0	0.0
3	0.00	0.00	984.10	0.0	0.0	0.0
2	0.00	0.00	724.06	0.0	0.0	0.0
1	0.00	0.00	1430.91	0.0	0.0	0.0
S	0.00	0.00	0.00	0.0	0.0	0.0
Total	0.00	0.00	6429.90	0.0	0.0	0.0

LOAD CASE 3 : LIVE (LL)

	Force (ton)			Moment (ton-m)		
Floor	Px	Py	Pz	Mx	My	Mz
8	0.00	0.00	69.05	0.0	0.0	0.0
7	0.00	0.00	303.52	0.0	0.0	0.0
6	0.00	0.00	303.52	0.0	0.0	0.0
5	0.00	0.00	303.52	0.0	0.0	0.0
4	0.00	0.00	303.52	0.0	0.0	0.0
3	0.00	0.00	370.53	0.0	0.0	0.0
2	0.00	0.00	272.61	0.0	0.0	0.0
1	0.00	0.00	538.71	0.0	0.0	0.0
S	0.00	0.00	0.00	0.0	0.0	0.0
Total	0.00	0.00	2464.96	0.0	0.0	0.0

LOAD CASE 4 : EQUAKE X (EQX) - TYPE : EQUIVALENT STATIC

	Force (ton)			Acc. Tors. Mom. (ton-m)		
Floor	Px	Py	Pz	Mx	My	Mz
8	264.34	0.00	0.00	0.0	0.0	1108.0
7	998.65	0.00	0.00	0.0	0.0	4184.0
6	835.00	0.00	0.00	0.0	0.0	3499.0
5	683.95	0.00	0.00	0.0	0.0	2866.0
4	537.09	0.00	0.00	0.0	0.0	2253.0
3	516.10	0.00	0.00	0.0	0.0	2354.0
2	226.58	0.00	0.00	0.0	0.0	1034.0
1	134.27	0.00	0.00	0.0	0.0	684.1

Floor	Px	Py	Pz	Mx	My	Mz
S	0.00	0.00	0.00	0.0	0.0	0.0
Total	4195.98	0.00	0.00	0.0	0.0	17982.1

LOAD CASE 5 : EQUAKE Y (EQY) - TYPE : EQUIVALENT STATIC

	Force (ton)			Acc. Tors. Mom. (ton-m)		
Floor	Px	Py	Pz	Mx	My	Mz
8	0.00	264.34	0.00	0.0	0.0	217.9
7	0.00	998.65	0.00	0.0	0.0	822.3
6	0.00	835.00	0.00	0.0	0.0	687.6
5	0.00	683.95	0.00	0.0	0.0	563.2
4	0.00	537.09	0.00	0.0	0.0	442.6
3	0.00	516.10	0.00	0.0	0.0	480.9
2	0.00	226.58	0.00	0.0	0.0	279.3
1	0.00	134.27	0.00	0.0	0.0	165.8
S	0.00	0.00	0.00	0.0	0.0	0.0
Total	0.00	4195.98	0.00	0.0	0.0	3659.6

ANALYSIS - MAXIMUM STORY DRIFT RATIO, δ

Story	ColAxis	(δ)	(δ)	(δ)
7	10-B	0.0008	0.0098	0.0098
	9-B	0.0008	0.0035	0.0035
	8-B	0.0008	0.0036	0.0036
	7-B	0.0008	0.0064	0.0064
	9-C	0.0069	0.0031	0.0069
	8-C	0.0069	0.0032	0.0069
	9-D	0.0065	0.0031	0.0065
	8-D	0.0065	0.0032	0.0065
	9-E	0.0061	0.0031	0.0061
	8-E	0.0061	0.0032	0.0061
	9'-F	0.0056	0.0031	0.0056
	9-F	0.0056	0.0031	0.0056
	8'-F	0.0056	0.0031	0.0056
	8-F	0.0056	0.0032	0.0056
	9'-F1	0.0055	0.0031	0.0055
	9-F1	0.0055	0.0031	0.0055
	8'-F1	0.0055	0.0031	0.0055
	8-F1	0.0055	0.0032	0.0055
	9'-F2	0.0054	0.0031	0.0054
	9-F2	0.0054	0.0031	0.0054
	8'-F2	0.0054	0.0031	0.0054
	8-F2	0.0054	0.0032	0.0054
	9'-F3	0.0053	0.0031	0.0053
	9-F3	0.0053	0.0031	0.0053
	8'-F3	0.0053	0.0031	0.0053
	8-F3	0.0053	0.0032	0.0053
	9'-G	0.0052	0.0031	0.0052
	9-G	0.0052	0.0031	0.0052
	8'-G	0.0052	0.0031	0.0052
	8-G	0.0052	0.0032	0.0052
	9-H	0.0051	0.0031	0.0051
	8-H	0.0051	0.0032	0.0051
	9-I	0.0053	0.0031	0.0053
	8-I	0.0053	0.0032	0.0053
	9-J	0.0055	0.0031	0.0055
	8-J	0.0055	0.0032	0.0055
	9-K	0.0057	0.0031	0.0057
	8-K	0.0057	0.0032	0.0057
	9-L	0.0059	0.0031	0.0059
	8-L	0.0059	0.0032	0.0059
	10-M	0.0046	0.0049	0.0049
	9-M	0.0046	0.0014	0.0046

Story	ColAxis	(δ)	(δ)	(δ)
	8-M	0.0046	0.0012	0.0046
	7-M	0.0046	0.0036	0.0047
6	10-B	0.0009	0.0093	0.0093
	9-B	0.0009	0.0038	0.0038
	8-B	0.0009	0.0039	0.0039
	7-B	0.0009	0.0058	0.0058
	9-C	0.0073	0.0036	0.0073
	8-C	0.0073	0.0037	0.0073
	9-D	0.0069	0.0036	0.0069
	8-D	0.0069	0.0037	0.0069
	9-E	0.0064	0.0036	0.0064
	8-E	0.0064	0.0037	0.0064
	9'-F	0.0060	0.0036	0.0060
	9-F	0.0060	0.0036	0.0060
	8'-F	0.0060	0.0037	0.0060
	8-F	0.0060	0.0037	0.0060
	9'-F1	0.0059	0.0036	0.0059
	9-F1	0.0059	0.0036	0.0059
	8'-F1	0.0059	0.0037	0.0059
	8-F1	0.0059	0.0037	0.0059
	9'-F2	0.0058	0.0036	0.0058
	9-F2	0.0058	0.0036	0.0058
	8'-F2	0.0058	0.0037	0.0058
	8-F2	0.0058	0.0037	0.0058
	9'-F3	0.0056	0.0036	0.0056
	9-F3	0.0056	0.0036	0.0056
	8'-F3	0.0056	0.0037	0.0056
	8-F3	0.0056	0.0037	0.0056
	9'-G	0.0055	0.0036	0.0055
	9-G	0.0055	0.0036	0.0055
	8'-G	0.0055	0.0037	0.0055
	8-G	0.0055	0.0037	0.0055
	9-H	0.0054	0.0036	0.0054
	8-H	0.0054	0.0037	0.0054
	9-I	0.0056	0.0036	0.0056
	8-I	0.0056	0.0037	0.0056
	9-J	0.0058	0.0036	0.0058
	8-J	0.0058	0.0037	0.0058
	9-K	0.0061	0.0036	0.0061
	8-K	0.0061	0.0037	0.0061
	9-L	0.0063	0.0036	0.0063
	8-L	0.0063	0.0037	0.0063
	10-M	0.0059	0.0049	0.0059
	9-M	0.0059	0.0039	0.0059
	8-M	0.0059	0.0038	0.0059
	7-M	0.0059	0.0039	0.0059
5	10-B	0.0013	0.0087	0.0087
	9-B	0.0013	0.0040	0.0041
	8-B	0.0013	0.0046	0.0046
	7-B	0.0013	0.0049	0.0050
	9-C	0.0080	0.0044	0.0080
	8-C	0.0080	0.0044	0.0080
	9-D	0.0075	0.0044	0.0075
	8-D	0.0075	0.0044	0.0075
	9-E	0.0070	0.0044	0.0070
	8-E	0.0070	0.0044	0.0070
	9'-F	0.0065	0.0044	0.0065
	9-F	0.0065	0.0044	0.0065
	8'-F	0.0065	0.0044	0.0065
	8-F	0.0065	0.0044	0.0065
	9'-F1	0.0064	0.0044	0.0064
	9-F1	0.0064	0.0044	0.0064
	8'-F1	0.0064	0.0044	0.0064
	8-F1	0.0064	0.0044	0.0064
	9'-F2	0.0063	0.0044	0.0063
	9-F2	0.0063	0.0044	0.0063
	8'-F2	0.0063	0.0044	0.0063
	8-F2	0.0063	0.0044	0.0063
	9'-F3	0.0061	0.0044	0.0061
	9-F3	0.0061	0.0044	0.0061
	8'-F3	0.0061	0.0044	0.0061
	8-F3	0.0061	0.0044	0.0061
	9'-G	0.0060	0.0044	0.0060

	9-G	0.0060	0.0044	0.0060
	8'-G	0.0060	0.0044	0.0060
	8-G	0.0060	0.0044	0.0060
	9-H	0.0058	0.0044	0.0058
	8-H	0.0058	0.0044	0.0058
	9-I	0.0061	0.0044	0.0061
	8-I	0.0061	0.0044	0.0061
	9-J	0.0063	0.0044	0.0063
	8-J	0.0063	0.0044	0.0063
	9-K	0.0065	0.0044	0.0065
	8-K	0.0065	0.0044	0.0065
	9-L	0.0068	0.0044	0.0068
	8-L	0.0068	0.0044	0.0068
	10-M	0.0067	0.0049	0.0067
	9-M	0.0067	0.0056	0.0067
	8-M	0.0067	0.0057	0.0067
	7-M	0.0067	0.0045	0.0067
4	10-B	0.0019	0.0081	0.0081
	9-B	0.0019	0.0047	0.0047
	8-B	0.0019	0.0050	0.0051
	7-B	0.0019	0.0042	0.0043
	9-C	0.0086	0.0049	0.0086
	8-C	0.0086	0.0050	0.0086
	9-D	0.0081	0.0049	0.0081
	8-D	0.0081	0.0050	0.0081
	9-E	0.0075	0.0049	0.0075
	8-E	0.0075	0.0050	0.0075
	9'-F	0.0070	0.0049	0.0070
	9-F	0.0070	0.0049	0.0070
	8'-F	0.0070	0.0050	0.0070
	8-F	0.0070	0.0050	0.0070
	9'-F1	0.0069	0.0049	0.0069
	9-F1	0.0069	0.0049	0.0069
	8'-F1	0.0069	0.0050	0.0069
	8-F1	0.0069	0.0050	0.0069
	9'-F2	0.0067	0.0049	0.0067
	9-F2	0.0067	0.0049	0.0067
	8'-F2	0.0067	0.0050	0.0067
	8-F2	0.0067	0.0050	0.0067
	9'-F3	0.0066	0.0049	0.0066
	9-F3	0.0066	0.0049	0.0066
	8'-F3	0.0066	0.0050	0.0066
	8-F3	0.0066	0.0050	0.0066
	9'-G	0.0064	0.0049	0.0064
	9-G	0.0064	0.0049	0.0064
	8'-G	0.0064	0.0050	0.0064
	8-G	0.0064	0.0050	0.0064
	9-H	0.0061	0.0049	0.0061
	8-H	0.0061	0.0050	0.0061
	9-I	0.0063	0.0049	0.0063
	8-I	0.0063	0.0050	0.0063
	9-J	0.0065	0.0049	0.0065
	8-J	0.0065	0.0050	0.0065
	9-K	0.0067	0.0049	0.0067
	8-K	0.0067	0.0050	0.0067
	9-L	0.0069	0.0049	0.0069
	8-L	0.0069	0.0050	0.0069
	10-M	0.0073	0.0043	0.0073
	9-M	0.0073	0.0059	0.0073
	8-M	0.0073	0.0062	0.0073
	7-M	0.0073	0.0052	0.0074
3	10-B	0.0023	0.0075	0.0076
	9-B	0.0023	0.0051	0.0051
	8-B	0.0023	0.0045	0.0046
	7-B	0.0023	0.0041	0.0041
	9-C	0.0091	0.0052	0.0091
	8-C	0.0091	0.0053	0.0091
	9-D	0.0085	0.0052	0.0085
	8-D	0.0085	0.0053	0.0085
	9-E	0.0078	0.0052	0.0078
	8-E	0.0078	0.0053	0.0078
	9'-F	0.0072	0.0052	0.0072
	9-F	0.0072	0.0052	0.0072
	8'-F	0.0072	0.0053	0.0072
	8-F	0.0072	0.0053	0.0072
	9'-F1	0.0071	0.0052	0.0071

	9-F1	0.0071	0.0052	0.0071
	8'-F1	0.0071	0.0053	0.0071
	8-F1	0.0071	0.0053	0.0071
	9'-F2	0.0069	0.0052	0.0069
	9-F2	0.0069	0.0052	0.0069
	8'-F2	0.0069	0.0053	0.0069
	8-F2	0.0069	0.0053	0.0069
	9'-F3	0.0067	0.0052	0.0067
	9-F3	0.0067	0.0052	0.0067
	8'-F3	0.0067	0.0053	0.0067
	8-F3	0.0067	0.0053	0.0067
	9'-G	0.0065	0.0052	0.0066
	9-G	0.0065	0.0052	0.0065
	8'-G	0.0065	0.0053	0.0065
	8-G	0.0065	0.0053	0.0065
	9-H	0.0060	0.0052	0.0060
	8-H	0.0060	0.0053	0.0060
	9-I	0.0061	0.0052	0.0061
	8-I	0.0061	0.0053	0.0061
	9-J	0.0062	0.0052	0.0062
	8-J	0.0062	0.0053	0.0062
	9-K	0.0062	0.0052	0.0062
	8-K	0.0062	0.0053	0.0062
	9-L	0.0063	0.0052	0.0063
	8-L	0.0063	0.0053	0.0063
	10-M	0.0086	0.0026	0.0086
	9-M	0.0086	0.0046	0.0086
	8-M	0.0086	0.0047	0.0086
	7-M	0.0086	0.0055	0.0087
2	10-B	0.0011	0.0069	0.0069
	9-B	0.0011	0.0055	0.0056
	8-B	0.0010	0.0047	0.0047
	7-B	0.0010	0.0041	0.0042
	9-C	0.0089	0.0058	0.0089
	8-C	0.0092	0.0060	0.0092
	9-D	0.0085	0.0057	0.0085
	8-D	0.0085	0.0057	0.0085
	9-E	0.0077	0.0057	0.0077
	8-E	0.0077	0.0058	0.0077
	9'-F	0.0068	0.0056	0.0068
	9-F	0.0068	0.0056	0.0068
	8'-F	0.0068	0.0056	0.0068
	8-F	0.0068	0.0057	0.0068
	9'-F1	0.0067	0.0056	0.0067
	9-F1	0.0067	0.0056	0.0067
	8'-F1	0.0067	0.0056	0.0067
	8-F1	0.0067	0.0057	0.0067
	9'-F2	0.0065	0.0056	0.0065
	9-F2	0.0065	0.0056	0.0065
	8'-F2	0.0065	0.0056	0.0065
	8-F2	0.0065	0.0057	0.0065
	9'-F3	0.0063	0.0056	0.0063
	9-F3	0.0063	0.0056	0.0063
	8'-F3	0.0063	0.0056	0.0063
	8-F3	0.0063	0.0057	0.0063
	9'-G	0.0061	0.0056	0.0061
	9-G	0.0061	0.0056	0.0061
	8'-G	0.0061	0.0056	0.0061
	8-G	0.0061	0.0057	0.0061
	9-H	0.0054	0.0056	0.0056
	8-H	0.0054	0.0057	0.0057
	10-I	0.0051	0.0056	0.0056
	9-I	0.0051	0.0056	0.0056
	8-I	0.0051	0.0057	0.0057
	10-J	0.0049	0.0056	0.0056
	9-J	0.0049	0.0056	0.0056
	8-J	0.0049	0.0057	0.0057
	10-K	0.0047	0.0056	0.0056
	9-K	0.0047	0.0056	0.0056
	8-K	0.0047	0.0057	0.0057
	10-L	0.0045	0.0056	0.0056
	9-L	0.0045	0.0056	0.0056
	8-L	0.0045	0.0057	0.0057
	10-M	0.0044	0.0056	0.0056
	9-M	0.0044	0.0056	0.0056
	8-M	0.0044	0.0057	0.0057
	10-N	0.0042	0.0056	0.0056

	9-N	0.0042	0.0056	0.0056
	8-N	0.0042	0.0057	0.0057
1	9-C	0.0058	0.0043	0.0058
	8-C	0.0055	0.0043	0.0055
	9-D	0.0050	0.0045	0.0050
	8-D	0.0050	0.0045	0.0050
	9-E	0.0047	0.0045	0.0047
	8-E	0.0047	0.0045	0.0047
	9'-F	0.0045	0.0045	0.0045
	9-F	0.0045	0.0045	0.0045
	8'-F	0.0045	0.0045	0.0045
	8-F	0.0045	0.0045	0.0045
	9'-F1	0.0044	0.0045	0.0045
	9-F1	0.0044	0.0045	0.0045
	8'-F1	0.0044	0.0045	0.0045
	8-F1	0.0044	0.0045	0.0045
	9'-F2	0.0042	0.0045	0.0045
	9-F2	0.0042	0.0045	0.0045
	8'-F2	0.0042	0.0045	0.0045
	8-F2	0.0042	0.0045	0.0045
	9'-F3	0.0041	0.0045	0.0045
	9-F3	0.0041	0.0045	0.0045
	8'-F3	0.0041	0.0045	0.0045
	8-F3	0.0041	0.0045	0.0045
	9'-G	0.0040	0.0045	0.0045
	9-G	0.0040	0.0045	0.0045
	8'-G	0.0040	0.0045	0.0045
	8-G	0.0040	0.0045	0.0045
	9-H	0.0036	0.0045	0.0045
	8-H	0.0036	0.0045	0.0045
	10-I	0.0033	0.0045	0.0045
	9-I	0.0033	0.0045	0.0045
	8-I	0.0033	0.0045	0.0045
	10-J	0.0032	0.0045	0.0045
	9-J	0.0032	0.0045	0.0045
	8-J	0.0032	0.0045	0.0045
	10-K	0.0031	0.0045	0.0045
	9-K	0.0031	0.0045	0.0045
	8-K	0.0031	0.0045	0.0045
	10-L	0.0030	0.0045	0.0045
	9-L	0.0030	0.0045	0.0045
	8-L	0.0030	0.0045	0.0045
	10-M	0.0029	0.0045	0.0045
	9-M	0.0029	0.0045	0.0045
	8-M	0.0029	0.0045	0.0045
	10-N	0.0028	0.0045	0.0045
	9-N	0.0028	0.0045	0.0045
	8-N	0.0028	0.0045	0.0045
S	10-B'	0.0011	0.0005	0.0011
	9'-B'	0.0008	0.0005	0.0008
	9-B'	0.0011	0.0005	0.0011
	8'-B'	0.0004	0.0003	0.0004
	8-B'	0.0011	0.0005	0.0011
	7-B'	0.0011	0.0005	0.0011
	10-C	0.0011	0.0005	0.0011
	9-C	0.0011	0.0005	0.0011
	8-C	0.0011	0.0005	0.0011
	7-C	0.0011	0.0005	0.0011
	10-C1	0.0006	0.0002	0.0006
	7-C1	0.0008	0.0002	0.0008
	11'-D	0.0010	0.0005	0.0010
	10-D	0.0010	0.0005	0.0010
	9-D	0.0010	0.0005	0.0010
	8-D	0.0010	0.0005	0.0010
	7-D	0.0010	0.0005	0.0010
	6'-D	0.0010	0.0005	0.0010
	9-E	0.0010	0.0005	0.0010
	8-E	0.0010	0.0005	0.0010
	11'-F	0.0009	0.0005	0.0009
	10-F	0.0009	0.0005	0.0009
	9'-F	0.0009	0.0005	0.0009
	9-F	0.0009	0.0005	0.0009
	8'-F	0.0009	0.0005	0.0009
	8-F	0.0009	0.0005	0.0009
	7-F	0.0009	0.0005	0.0009
	6'-F	0.0009	0.0005	0.0009

10-F1	0.0005	0.0003	0.0005
9'-F1	0.0009	0.0005	0.0009
9-F1	0.0009	0.0005	0.0009
8'-F1	0.0009	0.0005	0.0009
8-F1	0.0009	0.0005	0.0009
7-F1	0.0006	0.0003	0.0006
10-F2	0.0004	0.0003	0.0004
9'-F2	0.0009	0.0005	0.0009
9-F2	0.0009	0.0005	0.0009
8'-F2	0.0009	0.0005	0.0009
8-F2	0.0009	0.0005	0.0009
7-F2	0.0001	0.0002	0.0002
10-F3	0.0001	0.0003	0.0003
9'-F3	0.0009	0.0005	0.0009
9-F3	0.0009	0.0005	0.0009
8'-F3	0.0009	0.0005	0.0009
8-F3	0.0009	0.0005	0.0009
7-F3	0.0001	0.0002	0.0002
10-G	0.0009	0.0005	0.0009
9'-G	0.0009	0.0005	0.0009
9-G	0.0009	0.0005	0.0009
8'-G	0.0009	0.0005	0.0009
8-G	0.0009	0.0005	0.0009
7-G	0.0009	0.0005	0.0009
10-G'	0.0002	0.0002	0.0002
7-G'	0.0002	0.0002	0.0002
10-H	0.0008	0.0005	0.0008
9-H	0.0008	0.0005	0.0008
8-H	0.0008	0.0005	0.0008
7-H	0.0008	0.0005	0.0008
10-H1	0.0005	0.0003	0.0005
7-H1	0.0005	0.0003	0.0005
11-I	0.0007	0.0005	0.0007
11'-I	0.0005	0.0005	0.0005
10-I	0.0007	0.0005	0.0007
9-I	0.0007	0.0005	0.0007
8-I	0.0007	0.0005	0.0007
7-I	0.0007	0.0005	0.0007
6'-I	0.0007	0.0005	0.0007
10-J	0.0007	0.0005	0.0007
9-J	0.0007	0.0005	0.0007
8-J	0.0007	0.0005	0.0007
10-K	0.0007	0.0005	0.0007
9-K	0.0007	0.0005	0.0007
8-K	0.0007	0.0005	0.0007
10-L	0.0007	0.0005	0.0007
9-L	0.0007	0.0005	0.0007
8-L	0.0007	0.0005	0.0007
10-M	0.0006	0.0005	0.0006
9-M	0.0006	0.0005	0.0006
8-M	0.0006	0.0005	0.0006
10-N	0.0006	0.0005	0.0006
9-N	0.0006	0.0005	0.0006
8-N	0.0006	0.0005	0.0006
10-O	0.0006	0.0005	0.0006
9-O	0.0006	0.0005	0.0006
8-O	0.0006	0.0005	0.0006
11-P	0.0006	0.0005	0.0006
11'-P	0.0004	0.0005	0.0005
10-P	0.0006	0.0005	0.0006
9'-P	0.0004	0.0005	0.0005
9-P	0.0006	0.0005	0.0006
8'-P	0.0002	0.0004	0.0004
8-P	0.0006	0.0005	0.0006
7-P	0.0003	0.0005	0.0005
6'-P	0.0006	0.0005	0.0006

Note: Drift amplification factor, D: 1 in X; 1 in Y
MAXIMA DRIFT: [illegible]

P-Delta Analysis- Support Reactions

Support		Load	Force (ton)			Moment (ton-m)		
Axis	Floor	LdComb	Fx	Fy	Fz	Mx	My	Mz
10-B'	S	1	2.09	7.33	3.63	0.00	0.00	-1.68
		2	64.26	3.44	-86.51	0.00	0.00	-3.01
		3	-60.09	11.22	93.76	0.00	0.00	-0.35
		4	0.45	41.97	51.06	0.00	0.00	-1.69
		5	3.72	-27.31	-43.81	0.00	0.00	-1.66
9-B'	S	1	13.76	0.18	23.75	0.00	0.00	-0.27
		2	213.24	0.14	24.11	0.00	0.00	-0.20
		3	-185.73	0.21	23.40	0.00	0.00	-0.34
		4	20.75	0.48	34.94	0.00	0.00	-0.52
		5	6.77	-0.13	12.57	0.00	0.00	-0.03
8-B'	S	1	20.90	0.56	21.67	0.00	0.00	-1.59
		2	204.92	0.56	7.91	0.00	0.00	-1.49
		3	-163.11	0.55	35.42	0.00	0.00	-1.69
		4	10.77	0.85	34.85	0.00	0.00	-1.32
		5	31.03	0.26	8.48	0.00	0.00	-1.86
7-B'	S	1	15.43	7.87	25.01	0.00	0.00	2.93
		2	99.81	9.95	121.41	0.00	0.00	2.38
		3	-68.94	5.80	-71.40	0.00	0.00	3.48
		4	19.30	42.21	73.45	0.00	0.00	3.20
		5	11.57	-26.46	-23.44	0.00	0.00	2.66
10-C	S	1	-0.73	8.92	19.30	0.00	0.00	1.26
		2	0.33	46.55	-7.70	0.00	0.00	0.28
		3	-1.79	-28.72	46.30	0.00	0.00	2.24
		4	-0.79	84.99	17.06	0.00	0.00	1.39
		5	-0.66	-67.16	21.54	0.00	0.00	1.12
9-C	S	1	-23.15	7.34	567.24	-7.90	49.48	0.00
		2	-109.55	7.13	500.86	-7.81	470.29	0.01
		3	63.25	7.55	633.61	-8.00	-371.34	-0.01
		4	-14.10	6.79	599.09	-9.59	38.68	0.00
		5	-32.21	7.90	535.39	-6.22	60.27	0.00
8-C	S	1	8.46	11.53	481.08	-11.82	223.98	-5.14
		2	11.70	12.07	559.40	-12.12	271.11	-5.37
		3	5.23	10.98	402.76	-11.53	176.84	-4.90
		4	8.90	9.06	506.90	-13.52	236.11	-4.04
		5	8.02	14.00	455.25	-10.12	211.84	-6.24
7-C	S	1	1.11	2.98	23.70	0.00	0.00	-1.79
		2	1.59	-39.74	45.65	0.00	0.00	-2.29
		3	0.64	45.71	1.74	0.00	0.00	-1.29
		4	1.15	82.03	19.06	0.00	0.00	-1.89
		5	1.08	-76.06	28.34	0.00	0.00	-1.69
11'-D	S	1	-11.68	0.14	15.58	0.00	0.00	-0.87
		2	17.89	0.18	-42.21	0.00	0.00	-0.85
		3	-41.25	0.10	73.38	0.00	0.00	-0.89
		4	-8.02	0.16	9.91	0.00	0.00	-0.90
		5	-15.33	0.12	21.26	0.00	0.00	-0.84
10-D	S	1	2.93	-4.45	29.33	0.00	0.00	1.23
		2	13.56	1.05	69.40	0.00	0.00	1.77
		3	-7.70	-9.96	-10.74	0.00	0.00	0.69
		4	2.40	50.06	-15.82	0.00	0.00	1.24
		5	3.47	-58.97	74.48	0.00	0.00	1.22
9-D	S	1	-15.03	-1.07	469.98	1.21	-224.04	-0.47
		2	-11.58	-1.01	434.18	0.93	-196.22	-0.44
		3	-18.47	-1.12	505.77	1.48	-251.87	-0.50
		4	-15.08	-4.71	472.66	0.75	-225.39	-2.10
		5	-14.98	2.57	467.29	1.67	-222.70	1.15

Axis	Floor	LdComb	Fx	Fy	Fz	Mx	My	Mz
8-D	S	1	15.50	-1.07	491.10	1.22	235.72	0.48
		2	19.31	-0.84	525.24	1.29	263.27	0.39
		3	11.70	-1.29	456.97	1.15	208.17	0.57
		4	15.93	-4.66	488.17	0.69	234.74	2.08
		5	15.07	2.53	494.04	1.74	236.70	-1.12
7-D	S	1	-0.84	-4.79	20.81	0.00	0.00	-0.78
		2	12.18	-9.24	-24.14	0.00	0.00	-0.09
		3	-13.85	-0.35	65.75	0.00	0.00	-1.47
		4	-0.16	49.77	-24.99	0.00	0.00	-0.72
		5	-1.51	-59.36	66.61	0.00	0.00	-0.84
6'-D	S	1	19.53	0.15	27.20	0.00	0.00	0.91
		2	54.34	0.10	89.69	0.00	0.00	0.88
		3	-15.29	0.19	-35.29	0.00	0.00	0.94
		4	15.56	0.16	21.71	0.00	0.00	0.92
		5	23.49	0.13	32.70	0.00	0.00	0.90
9-E	S	1	12.28	0.80	501.68	-0.73	-209.91	0.36
		2	11.60	1.04	467.92	-1.26	-187.59	0.48
		3	12.96	0.56	535.44	-0.19	-232.23	0.24
		4	12.49	-2.47	502.71	-1.58	-209.37	-1.10
		5	12.07	4.07	500.64	0.12	-210.45	1.81
8-E	S	1	-11.23	1.00	521.02	-0.92	221.36	-0.44
		2	-13.10	1.82	570.73	-1.50	249.56	-0.80
		3	-9.37	0.17	471.30	-0.33	193.16	-0.08
		4	-10.96	-2.38	518.75	-1.69	220.55	1.06
		5	-11.51	4.37	523.28	-0.15	222.18	-1.95
11'-F	S	1	-13.88	-0.14	19.01	0.00	0.00	0.61
		2	44.58	-0.11	-74.25	0.00	0.00	0.57
		3	-72.34	-0.16	112.27	0.00	0.00	0.65
		4	-29.74	-0.09	39.22	0.00	0.00	0.52
		5	1.98	-0.18	-1.20	0.00	0.00	0.70
10-F	S	1	3.58	9.56	31.75	0.00	0.00	-1.14
		2	13.20	-8.27	16.00	0.00	0.00	-3.79
		3	-6.04	27.40	47.51	0.00	0.00	1.51
		4	3.12	51.84	80.32	0.00	0.00	0.25
		5	4.03	-32.71	-16.82	0.00	0.00	-2.53
9'-F	S	1	-105.26	-1.35	156.38	0.00	0.00	1.80
		2	-125.86	-1.11	111.20	0.00	0.00	1.36
		3	-84.65	-1.60	201.56	0.00	0.00	2.23
		4	-191.29	-1.48	291.57	0.00	0.00	1.11
		5	-19.23	-1.23	21.20	0.00	0.00	2.49
9-F	S	1	88.92	-0.05	159.07	0.00	0.00	1.51
		2	85.81	-0.17	215.38	0.00	0.00	1.10
		3	92.03	0.08	102.76	0.00	0.00	1.92
		4	168.44	-0.78	292.07	0.00	0.00	0.65
		5	9.39	0.69	26.06	0.00	0.00	2.37
8'-F	S	1	-128.61	-1.26	194.39	0.00	0.00	1.78
		2	-162.06	-1.19	168.53	0.00	0.00	1.63
		3	-95.16	-1.33	220.25	0.00	0.00	1.94
		4	-226.31	-1.24	352.36	0.00	0.00	0.86
		5	-30.91	-1.28	36.42	0.00	0.00	2.70
8-F	S	1	120.14	0.05	201.66	0.00	0.00	1.53
		2	107.43	-0.04	261.45	0.00	0.00	1.37
		3	132.85	0.14	141.87	0.00	0.00	1.69
		4	221.89	-0.72	361.70	0.00	0.00	0.46
		5	18.38	0.82	41.62	0.00	0.00	2.61
7-F	S	1	-0.94	10.48	24.49	0.00	0.00	0.10
		2	12.09	6.52	-19.97	0.00	0.00	-1.88
		3	-13.97	14.43	68.96	0.00	0.00	2.09
		4	-0.87	52.07	58.31	0.00	0.00	-0.23
		5	-1.01	-31.12	-9.32	0.00	0.00	0.44

Axis	Floor	LdComb	Fx	Fy	Fz	Mx	My	Mz
6'-F	S	1	21.75	-0.13	29.84	0.00	0.00	-0.64
		2	52.84	-0.10	84.46	0.00	0.00	-0.61
		3	-9.34	-0.16	-24.78	0.00	0.00	-0.66
		4	27.33	-0.07	36.20	0.00	0.00	-0.58
		5	16.17	-0.20	23.48	0.00	0.00	-0.69
9'-F1	S	1	-50.03	19.20	110.29	0.00	0.00	0.35
		2	-79.17	-19.40	29.74	0.00	0.00	0.68
		3	-20.90	57.80	190.84	0.00	0.00	0.01
		4	-126.66	30.94	276.95	0.00	0.00	0.88
		5	26.60	7.46	-56.38	0.00	0.00	-0.19
9-F1	S	1	43.90	-0.02	78.08	0.00	0.00	-0.02
		2	46.33	-0.01	127.39	0.00	0.00	-0.05
		3	41.48	-0.03	28.77	0.00	0.00	0.01
		4	127.62	-0.18	208.55	0.00	0.00	-0.34
		5	-39.82	0.14	-52.38	0.00	0.00	0.30
8'-F1	S	1	-59.78	-0.02	90.62	0.00	0.00	-0.02
		2	-68.03	-0.04	52.55	0.00	0.00	-0.02
		3	-51.52	0.00	128.69	0.00	0.00	-0.03
		4	-145.54	-0.17	222.82	0.00	0.00	0.23
		5	25.99	0.12	-41.59	0.00	0.00	-0.28
8-F1	S	1	58.74	38.53	168.48	0.00	0.00	0.14
		2	34.46	82.04	263.86	0.00	0.00	0.61
		3	83.02	-4.97	73.11	0.00	0.00	-0.33
		4	137.39	48.37	336.94	0.00	0.00	-0.29
		5	-19.90	28.69	0.03	0.00	0.00	0.57
9'-F2	S	1	-46.95	-4.84	145.96	0.00	0.00	0.09
		2	-70.26	-10.46	-17.96	0.00	0.00	0.21
		3	-23.64	0.77	309.88	0.00	0.00	-0.04
		4	-43.53	-83.84	136.89	0.00	0.00	1.42
		5	-50.37	74.16	155.02	0.00	0.00	-1.24
9-F2	S	1	39.91	0.00	71.68	0.00	0.00	0.02
		2	33.97	0.00	108.61	0.00	0.00	0.08
		3	45.85	0.00	34.74	0.00	0.00	-0.04
		4	38.21	-0.03	68.62	0.00	0.00	0.26
		5	41.61	0.03	74.73	0.00	0.00	-0.23
8'-F2	S	1	-58.13	0.00	87.44	0.00	0.00	0.00
		2	-70.86	0.00	57.73	0.00	0.00	0.06
		3	-45.41	0.00	117.16	0.00	0.00	-0.06
		4	-54.77	-0.04	83.26	0.00	0.00	-0.24
		5	-61.49	0.04	91.63	0.00	0.00	0.24
8-F2	S	1	56.27	-1.51	245.69	0.00	0.00	-0.02
		2	36.12	3.13	430.86	0.00	0.00	0.09
		3	76.42	-6.14	60.51	0.00	0.00	-0.14
		4	54.27	-82.26	235.12	0.00	0.00	-1.47
		5	58.27	79.24	256.25	0.00	0.00	1.42
9'-F3	S	1	-43.00	-20.57	100.04	0.00	0.00	-0.23
		2	-56.00	20.67	-3.71	0.00	0.00	-0.52
		3	-30.00	-61.82	203.79	0.00	0.00	0.06
		4	39.07	-6.76	-79.67	0.00	0.00	0.32
		5	-125.08	-34.39	279.75	0.00	0.00	-0.79
9-F3	S	1	37.81	0.01	67.74	0.00	0.00	0.02
		2	23.78	-0.02	97.44	0.00	0.00	0.04
		3	51.85	0.05	38.05	0.00	0.00	0.00
		4	-50.12	-0.15	-69.21	0.00	0.00	-0.32
		5	125.75	0.18	204.70	0.00	0.00	0.36
8'-F3	S	1	-59.29	0.02	89.97	0.00	0.00	0.03
		2	-79.77	0.06	66.23	0.00	0.00	0.04
		3	-38.81	-0.02	113.72	0.00	0.00	0.02
		4	33.78	-0.13	-51.20	0.00	0.00	0.31
		5	-152.36	0.17	231.14	0.00	0.00	-0.25

Axis	Floor	LdComb	Fx	Fy	Fz	Mx	My	Mz
8-F3	S	1	58.59	-39.53	169.56	0.00	0.00	-0.23
		2	47.59	-84.02	281.85	0.00	0.00	-0.69
		3	69.59	4.96	57.27	0.00	0.00	0.24
		4	-23.07	-26.21	-12.59	0.00	0.00	-0.61
		5	140.24	-52.85	351.70	0.00	0.00	0.16
10-G	S	1	-1.07	-8.26	30.54	0.00	0.00	0.92
		2	1.03	21.40	-44.24	0.00	0.00	2.36
		3	-3.17	-37.92	105.33	0.00	0.00	-0.52
		4	0.06	85.17	20.70	0.00	0.00	2.05
		5	-2.20	-101.69	40.39	0.00	0.00	-0.21
9'-G	S	1	-100.43	1.26	150.45	0.00	0.00	-1.83
		2	-97.68	1.15	83.35	0.00	0.00	-1.65
		3	-103.18	1.38	217.55	0.00	0.00	-2.02
		4	-24.87	1.07	30.55	0.00	0.00	-2.58
		5	-175.98	1.45	270.35	0.00	0.00	-1.09
9-G	S	1	86.91	-0.09	154.65	0.00	0.00	-1.59
		2	62.12	-0.11	182.75	0.00	0.00	-1.42
		3	111.71	-0.07	126.54	0.00	0.00	-1.76
		4	17.82	-0.96	39.81	0.00	0.00	-2.55
		5	156.00	0.78	269.48	0.00	0.00	-0.63
8'-G	S	1	-132.43	1.24	201.46	0.00	0.00	-1.73
		2	-177.57	1.18	188.04	0.00	0.00	-1.48
		3	-87.29	1.30	214.87	0.00	0.00	-1.98
		4	-43.11	1.18	59.91	0.00	0.00	-2.62
		5	-221.76	1.29	343.00	0.00	0.00	-0.84
8-G	S	1	126.51	-0.04	210.08	0.00	0.00	-1.48
		2	131.81	0.07	284.00	0.00	0.00	-1.22
		3	121.21	-0.15	136.16	0.00	0.00	-1.75
		4	39.69	-0.86	69.74	0.00	0.00	-2.55
		5	213.33	0.79	350.42	0.00	0.00	-0.41
7-G	S	1	2.00	-9.23	31.48	0.00	0.00	-0.34
		2	3.62	-16.73	35.06	0.00	0.00	0.72
		3	0.38	-1.73	27.91	0.00	0.00	-1.41
		4	1.52	85.11	43.33	0.00	0.00	-0.73
		5	2.48	-103.58	19.63	0.00	0.00	0.05
10-H	S	1	-1.58	11.18	31.63	0.00	0.00	-0.22
		2	-0.79	27.96	16.50	0.00	0.00	0.13
		3	-2.37	-5.60	46.75	0.00	0.00	-0.57
		4	-1.53	114.51	30.42	0.00	0.00	-0.10
		5	-1.63	-92.15	32.84	0.00	0.00	-0.35
9-H	S	1	-16.99	-0.83	541.85	0.94	-493.18	-0.74
		2	-26.38	-0.96	511.51	0.88	-429.73	-0.85
		3	-7.60	-0.69	572.19	1.00	-556.63	-0.63
		4	-16.77	-4.07	544.39	2.19	-495.02	-3.66
		5	-17.21	2.42	539.31	-0.31	-491.34	2.17
8-H	S	1	15.90	-0.87	561.68	0.99	521.72	0.78
		2	6.85	-1.23	608.50	1.44	600.71	1.11
		3	24.96	-0.52	514.85	0.55	442.72	0.46
		4	16.15	-4.18	564.08	2.31	524.37	3.76
		5	15.66	2.44	559.27	-0.32	519.07	-2.19
7-H	S	1	2.00	1.33	30.72	0.00	0.00	0.43
		2	2.83	-14.36	36.54	0.00	0.00	0.75
		3	1.17	17.03	24.89	0.00	0.00	0.11
		4	1.98	103.96	30.42	0.00	0.00	0.37
		5	2.02	-101.29	31.02	0.00	0.00	0.49
11-I	S	1	-13.19	0.03	11.64	0.00	0.00	-0.05
		2	57.79	0.03	-61.61	0.00	0.00	-0.04
		3	-84.17	0.03	84.89	0.00	0.00	-0.06
		4	-11.33	0.02	10.16	0.00	0.00	-0.04
		5	-15.06	0.04	13.11	0.00	0.00	-0.06

Axis	Floor	LdComb	Fx	Fy	Fz	Mx	My	Mz
10-I	S	1	14.71	-10.68	118.86	7.53	1.48	-0.92
		2	67.96	-2.73	133.81	8.32	17.48	-0.09
		3	-38.54	-18.64	103.92	6.74	-14.53	-1.76
		4	15.22	44.16	75.00	-6.06	2.34	-0.60
		5	14.19	-65.52	162.73	21.12	0.61	-1.25
9-I	S	1	-13.45	-3.12	501.52	3.40	-454.49	-2.80
		2	-23.83	-3.06	515.42	3.26	-431.93	-2.74
		3	-3.08	-3.19	487.63	3.55	-477.05	-2.87
		4	-14.07	-6.49	497.97	4.79	-451.42	-5.83
		5	-12.84	0.24	505.08	2.02	-457.56	0.22
8-I	S	1	18.98	0.22	552.38	-0.17	515.49	-0.19
		2	13.96	0.45	577.73	-0.26	575.39	-0.39
		3	24.00	-0.01	527.02	-0.09	455.59	0.00
		4	19.41	-3.23	548.07	1.29	512.28	2.90
		5	18.55	3.66	556.68	-1.64	518.70	-3.29
7-I	S	1	-0.54	-8.63	22.10	0.00	0.00	1.83
		2	9.16	-14.61	-6.92	0.00	0.00	2.62
		3	-10.24	-2.65	51.12	0.00	0.00	1.04
		4	0.04	42.72	-22.42	0.00	0.00	1.89
		5	-1.12	-59.99	66.63	0.00	0.00	1.77
6'-I	S	1	21.38	0.06	27.95	0.00	0.00	0.07
		2	51.60	0.03	77.95	0.00	0.00	0.06
		3	-8.84	0.09	-22.06	0.00	0.00	0.09
		4	18.21	0.08	23.67	0.00	0.00	0.08
		5	24.55	0.04	32.22	0.00	0.00	0.07
10-J	S	1	5.36	-0.01	178.17	0.02	6.09	0.00
		2	6.09	-0.05	131.89	0.04	7.39	0.00
		3	4.63	0.03	224.44	-0.01	4.78	0.00
		4	5.35	0.03	176.00	-0.39	6.09	0.00
		5	5.37	-0.04	180.33	0.42	6.09	0.00
9-J	S	1	-15.78	-0.44	502.41	0.53	-457.00	-0.40
		2	-26.89	-0.56	509.18	0.44	-429.58	-0.49
		3	-4.67	-0.33	495.64	0.62	-484.42	-0.30
		4	-16.77	-3.88	501.84	1.99	-456.65	-3.49
		5	-14.79	3.00	502.99	-0.93	-457.35	2.69
8-J	S	1	-8.97	0.07	611.73	-0.01	548.90	-0.06
		2	-22.33	0.31	654.10	-0.12	616.87	-0.27
		3	4.38	-0.17	569.36	0.09	480.93	0.15
		4	-9.98	-3.42	613.59	1.49	550.37	3.08
		5	-7.96	3.56	609.87	-1.52	547.42	-3.20
10-K	S	1	5.39	-0.05	176.55	0.07	6.12	0.00
		2	6.05	-0.01	129.05	-0.02	7.31	0.00
		3	4.74	-0.09	224.04	0.15	4.94	0.00
		4	5.39	0.05	174.11	-0.42	6.13	0.00
		5	5.40	-0.16	178.98	0.55	6.12	0.00
9-K	S	1	-15.07	-0.31	492.61	0.39	-447.75	-0.28
		2	-25.96	-0.52	494.76	0.45	-415.71	-0.46
		3	-4.19	-0.10	490.46	0.33	-479.80	-0.10
		4	-16.66	-3.78	492.19	1.88	-448.01	-3.39
		5	-13.49	3.15	493.04	-1.10	-447.49	2.83
8-K	S	1	-12.02	-0.25	610.49	0.33	545.56	0.23
		2	-25.22	0.01	654.94	0.20	614.21	0.00
		3	1.17	-0.51	566.05	0.45	476.90	0.45
		4	-13.67	-3.77	613.46	1.86	547.79	3.39
		5	-10.37	3.27	607.52	-1.21	543.32	-2.94
10-L	S	1	5.53	-0.10	169.57	0.12	6.27	0.00
		2	6.39	-0.05	110.63	0.02	7.72	0.00
		3	4.66	-0.15	228.51	0.23	4.83	0.00
		4	5.55	0.00	163.94	-0.35	6.31	0.00
		5	5.50	-0.20	175.20	0.60	6.23	0.00

Axis	Floor	LdComb	Fx	Fy	Fz	Mx	My	Mz
9-L	S	1	-2.98	-0.58	585.81	0.68	36.70	0.00
		2	-36.65	-0.65	573.16	0.58	287.63	0.01
		3	30.68	-0.50	598.45	0.78	-214.23	-0.01
		4	-9.91	-4.27	564.58	2.40	46.08	0.00
		5	3.94	3.12	607.03	-1.04	27.33	0.00
8-L	S	1	-12.84	-0.45	584.61	0.54	521.66	0.40
		2	-25.26	-0.21	662.31	0.44	619.45	0.20
		3	-0.43	-0.69	506.91	0.64	423.87	0.61
		4	-15.09	-3.93	564.19	2.04	503.19	3.53
		5	-10.60	3.04	605.04	-0.96	540.13	-2.73
10-M	S	1	5.89	0.16	158.37	-0.17	6.68	0.00
		2	6.50	0.20	117.04	-0.27	7.74	0.00
		3	5.27	0.11	199.71	-0.07	5.62	0.00
		4	5.87	0.22	155.03	-0.60	6.68	0.00
		5	5.90	0.10	161.71	0.26	6.68	0.00
9-M	S	1	-12.88	-0.24	205.65	0.31	-188.48	-0.21
		2	-21.91	-0.30	228.48	0.18	-167.53	-0.26
		3	-3.86	-0.17	182.83	0.43	-209.43	-0.16
		4	-15.51	-3.55	208.18	1.66	-191.44	-3.19
		5	-10.26	3.07	203.13	-1.04	-185.52	2.76
8-M	S	1	-7.09	-0.74	285.00	0.85	256.49	0.66
		2	-18.16	-0.53	300.01	0.94	297.59	0.48
		3	3.99	-0.94	269.98	0.75	215.39	0.84
		4	-9.92	-4.08	286.26	2.22	255.89	3.66
		5	-4.25	2.61	283.73	-0.53	257.09	-2.34
10-N	S	1	5.50	-1.92	117.29	2.16	6.24	0.00
		2	6.30	-1.80	67.85	2.01	7.58	0.00
		3	4.70	-2.03	166.72	2.31	4.90	0.00
		4	5.46	-1.79	106.82	1.67	6.19	0.00
		5	5.54	-2.04	127.76	2.65	6.30	0.00
9-N	S	1	2.59	-2.34	145.97	2.59	33.35	0.00
		2	-28.41	-2.46	176.96	2.64	266.53	0.01
		3	33.60	-2.21	114.98	2.53	-199.83	-0.01
		4	-8.42	-5.31	132.96	3.58	47.47	0.00
		5	13.61	0.64	158.98	1.59	19.24	0.00
8-N	S	1	-17.49	-0.61	195.58	0.72	168.70	0.55
		2	-27.56	-0.34	215.93	0.58	214.01	0.32
		3	-7.42	-0.89	175.24	0.86	123.39	0.79
		4	-20.75	-3.40	183.91	1.50	157.76	3.05
		5	-14.23	2.17	207.25	-0.07	179.64	-1.95
10-O	S	1	6.79	5.92	114.64	-6.64	7.69	0.00
		2	7.54	6.11	113.66	-6.87	8.95	0.00
		3	6.03	5.73	115.63	-6.41	6.42	0.00
		4	6.82	6.75	113.97	-7.92	7.75	0.00
		5	6.75	5.09	115.31	-5.35	7.62	0.00
9-O	S	1	-1.99	3.57	33.66	-3.84	-2.07	0.00
		2	-0.85	3.64	34.00	-3.94	-0.38	0.00
		3	-3.12	3.50	33.31	-3.74	-3.76	0.00
		4	-1.93	4.75	32.70	-5.52	-1.99	0.00
		5	-2.04	2.39	34.62	-2.17	-2.15	0.00
8-O	S	1	-12.29	5.65	111.78	-6.09	-13.19	0.00
		2	-11.52	5.74	111.96	-6.17	-11.88	0.00
		3	-13.06	5.56	111.59	-6.00	-14.50	0.00
		4	-12.25	6.85	110.78	-7.79	-13.12	0.00
		5	-12.33	4.45	112.77	-4.38	-13.25	0.00
11-P	S	1	-0.64	-1.04	5.00	0.00	0.00	1.69
		2	52.93	-1.03	-50.97	0.00	0.00	1.70
		3	-54.21	-1.04	60.96	0.00	0.00	1.69
		4	2.52	-1.02	1.69	0.00	0.00	1.67
		5	-3.80	-1.05	8.30	0.00	0.00	1.72

Axis	Floor	LdComb	Fx	Fy	Fz	Mx	My	Mz
10-P	S	1	12.61	-6.07	36.84	0.00	0.00	-0.38
		2	80.57	-6.07	34.00	0.00	0.00	-0.39
		3	-55.35	-6.07	39.69	0.00	0.00	-0.38
		4	16.62	-5.96	36.63	0.00	0.00	-0.41
		5	8.60	-6.18	37.06	0.00	0.00	-0.36
9-P	S	1	15.82	-4.47	41.06	0.00	0.00	-1.20
		2	121.09	-4.46	45.12	0.00	0.00	-1.21
		3	-89.45	-4.48	36.99	0.00	0.00	-1.19
		4	22.02	-4.33	41.22	0.00	0.00	-1.22
		5	9.63	-4.61	40.89	0.00	0.00	-1.18
8-P	S	1	11.39	-9.01	51.70	0.00	0.00	8.41
		2	123.41	-9.02	52.60	0.00	0.00	8.42
		3	-100.64	-9.00	50.80	0.00	0.00	8.40
		4	17.98	-8.89	51.69	0.00	0.00	8.42
		5	4.80	-9.13	51.71	0.00	0.00	8.41
6'-P	S	1	21.41	-6.16	31.77	0.00	0.00	-7.11
		2	73.41	-6.17	85.69	0.00	0.00	-7.11
		3	-30.60	-6.16	-22.15	0.00	0.00	-7.11
		4	24.46	-6.15	34.94	0.00	0.00	-7.09
		5	18.35	-6.18	28.60	0.00	0.00	-7.13

LOAD COMBINATIONS

No	Load combination
1	D0 + DL + LL
2	D0 + DL + LL + .71EQX
3	D0 + DL + LL - .71EQX
4	D0 + DL + LL + .71EQY
5	D0 + DL + LL - .71EQY

Design Results - Columns

						TRANSVERSE REINFORCEMENT		LONGITUDINAL REINFORCEMENT						
Column	Story	L (m)	Lu (m)	Sec Mat	bxh (cm)	TIES	XTIES	Sec	LdCmb critc	Pu (ton)	Mu2 (ton-m)	Mu3 (ton-m)	RHO -	As (cm2)
8-O	S	3.50	2.88	4	45x45	6 #3 @ 10 cm (end)	1 (b)	Top	4	110.78	11.93	22.11	0.0217	43.98
				2		9 #3 @ 20 cm (ctr)	1 (h)	Bot	1	111.78	6.09	13.19	0.0100	20.25
9-O	S	3.50	2.88	4	45x45	6 #3 @ 10 cm (end)	1 (b)	Top	1	33.66	6.42	3.64	0.0100	20.25
				2		9 #3 @ 20 cm (ctr)	1 (h)	Bot	1	33.66	3.84	2.07	0.0100	20.25
10-O	S	3.50	3.15	3	50x50	6 #3 @ 10 cm (end)	--	Top	1	114.64	12.00	13.69	0.0100	19.63
				2		10 #3 @ 20 cm (ctr)	--	Bot	1	114.64	6.64	7.69	0.0100	19.63
8-N	2	4.90	4.20	1	180x50	19 #3 @ 10 cm (end)	2 (b)	Top	1	45.97	25.48	17.65	0.0100	90.00
				2		3 #3 @ 20 cm (ctr)	8 (h)	Bot	1	45.97	21.32	11.66	0.0100	90.00
8-N	1	4.90	4.20	1	180x50	19 #3 @ 10 cm (end)	2 (b)	Top	1	93.07	11.20	13.56	0.0100	90.00
				2		2 #3 @ 20 cm (ctr)	8 (h)	Bot	1	93.07	6.64	27.98	0.0100	90.00
8-N	S	3.50	2.88	1	180x50	29 #3 @ 10 cm	2 (b)	Top	1	195.58	5.91	43.26	0.0100	90.00
				2		---	8 (h)	Bot	1	195.58	5.91	13.54	0.0100	90.00
9-N	2	4.90	4.20	6	360x40	42 #3 @ 10 cm	1 (b)	Top	1	53.84	17.70	6.63	0.0100	144.00
				2		---	17 (h)	Bot	1	53.84	14.15	36.19	0.0100	144.00
9-N	1	4.90	4.20	6	360x40	42 #3 @ 10 cm	1 (b)	Top	1	112.45	8.05	45.67	0.0100	144.00
				2		---	17 (h)	Bot	1	112.45	5.61	45.02	0.0100	144.00
9-N	S	3.50	2.88	6	360x40	29 #3 @ 10 cm	1 (b)	Top	1	145.97	4.13	25.89	0.0100	144.00
				2		---	17 (h)	Bot	1	145.97	3.98	33.35	0.0100	144.00
10-N	2	4.90	4.20	3	50x50	8 #3 @ 10 cm (end)	--	Top	2	-4.30	6.10	13.66	0.0116	22.70
				2		14 #3 @ 20 cm (ctr)	--	Bot	2	-4.30	5.25	12.81	0.0108	21.16

Column	Story	L	Lu	Sec	bxh	TIES	XTIES	Sec	LdCmb	Pu	Mu2	Mu3	RHO	As
10-N	1	4.90	3.93	3	50x50	8 #3 @ 10 cm (end)	--	Top	2	-14.26	4.93	13.75	0.0131	25.76
				2		12 #3 @ 20 cm (ctr)	--	Bot	2	-14.26	4.45	16.21	0.0147	28.83
10-N	S	3.50	3.15	3	50x50	6 #3 @ 10 cm (end)	--	Top	1	117.29	3.88	11.08	0.0100	19.63
				2		10 #3 @ 20 cm (ctr)	--	Bot	1	117.29	2.16	6.24	0.0100	19.63
8-M	2	4.90	4.20	1	180x50	19 #3 @ 10 cm (end)	2 (b)	Top	1	97.78	2.96	48.24	0.0100	90.00
				2		3 #3 @ 20 cm (ctr)	8 (h)	Bot	1	97.78	2.96	32.16	0.0100	90.00
8-M	1	4.90	4.20	1	180x50	19 #3 @ 10 cm (end)	2 (b)	Top	1	185.11	5.60	23.67	0.0100	90.00
				2		2 #3 @ 20 cm (ctr)	8 (h)	Bot	1	185.11	5.60	12.82	0.0100	90.00
8-M	S	3.50	2.88	1	180x50	29 #3 @ 10 cm	2 (b)	Top	1	285.00	8.62	20.80	0.0100	90.00
				2		---	8 (h)	Bot	1	285.00	8.62	19.73	0.0100	90.00
9-M	2	4.90	4.20	1	180x50	19 #3 @ 10 cm (end)	2 (b)	Top	1	89.00	2.69	39.20	0.0100	90.00
				2		3 #3 @ 20 cm (ctr)	8 (h)	Bot	1	89.00	2.69	25.89	0.0100	90.00
9-M	1	4.90	4.20	1	180x50	19 #3 @ 10 cm (end)	2 (b)	Top	1	170.66	5.16	11.82	0.0100	90.00
				2		2 #3 @ 20 cm (ctr)	8 (h)	Bot	1	170.66	5.16	26.93	0.0100	90.00
9-M	S	3.50	2.88	1	180x50	29 #3 @ 10 cm	2 (b)	Top	1	205.65	6.22	33.34	0.0100	90.00
				2		---	8 (h)	Bot	1	205.65	6.22	14.24	0.0100	90.00
10-M	2	4.90	4.20	3	50x50	8 #3 @ 10 cm (end)	--	Top	1	31.92	1.19	6.44	0.0100	19.63
				2		14 #3 @ 20 cm (ctr)	--	Bot	1	31.92	0.99	5.64	0.0100	19.63
10-M	1	4.90	3.93	3	50x50	8 #3 @ 10 cm (end)	--	Top	1	59.44	0.91	8.78	0.0100	19.63
				2		12 #3 @ 20 cm (ctr)	--	Bot	2	25.08	1.48	16.66	0.0108	21.16
10-M	S	3.50	3.15	3	50x50	6 #3 @ 10 cm (end)	--	Top	1	158.37	2.41	11.87	0.0100	19.63
				2		10 #3 @ 20 cm (ctr)	--	Bot	1	158.37	2.41	6.68	0.0100	19.63
8-L	7	3.50	3.00	1	180x50	30 #3 @ 10 cm	2 (b)	Top	1	13.69	0.41	5.92	0.0100	90.00
				2		---	8 (h)	Bot	1	13.69	8.25	14.90	0.0100	90.00
8-L	6	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	92.15	17.86	17.38	0.0100	90.00
				2		---	8 (h)	Bot	1	92.15	15.83	18.19	0.0100	90.00
8-L	5	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	170.38	12.65	14.12	0.0100	90.00
				2		---	8 (h)	Bot	1	170.38	12.62	18.35	0.0100	90.00
8-L	4	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	248.54	14.65	17.21	0.0100	90.00
				2		---	8 (h)	Bot	1	248.54	17.28	21.72	0.0100	90.00
8-L	3	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	326.89	12.00	22.63	0.0100	90.00
				2		---	8 (h)	Bot	1	326.89	9.89	22.63	0.0100	90.00
8-L	2	4.90	4.20	1	180x50	19 #3 @ 10 cm (end)	2 (b)	Top	1	406.16	12.28	28.12	0.0100	90.00
				2		3 #3 @ 20 cm (ctr)	8 (h)	Bot	1	406.16	12.28	28.12	0.0100	90.00
8-L	1	4.90	4.20	1	180x50	19 #3 @ 10 cm (end)	2 (b)	Top	1	486.31	14.71	33.67	0.0100	90.00
				2		2 #3 @ 20 cm (ctr)	8 (h)	Bot	1	486.31	14.71	33.67	0.0100	90.00
8-L	S	3.50	2.88	1	180x50	29 #3 @ 10 cm	2 (b)	Top	1	584.61	17.68	40.48	0.0100	90.00
				2		---	8 (h)	Bot	1	584.61	17.68	40.48	0.0100	90.00
9-L	7	3.50	3.00	6	360x40	30 #3 @ 10 cm	1 (b)	Top	1	19.07	0.52	2.35	0.0100	144.00
				2		---	17 (h)	Bot	1	19.07	7.69	2.35	0.0100	144.00
9-L	6	3.50	2.80	6	360x40	28 #3 @ 10 cm	1 (b)	Top	1	110.34	16.87	13.60	0.0100	144.00
				2		---	17 (h)	Bot	1	110.34	14.94	13.60	0.0100	144.00
9-L	5	3.50	2.80	6	360x40	28 #3 @ 10 cm	1 (b)	Top	1	201.38	11.96	24.82	0.0100	144.00
				2		---	17 (h)	Bot	1	201.38	11.91	24.82	0.0100	144.00
9-L	4	3.50	2.80	6	360x40	28 #3 @ 10 cm	1 (b)	Top	1	292.41	14.03	36.04	0.0100	144.00
				2		---	17 (h)	Bot	1	292.41	16.37	36.04	0.0100	144.00
9-L	3	3.50	2.80	6	360x40	28 #3 @ 10 cm	1 (b)	Top	1	383.73	11.83	47.29	0.0100	144.00
				2		---	17 (h)	Bot	1	383.73	10.45	47.29	0.0100	144.00
9-L	2	4.90	4.20	6	360x40	42 #3 @ 10 cm	1 (b)	Top	1	461.96	12.58	56.93	0.0100	144.00
				2		---	17 (h)	Bot	1	461.96	12.58	56.93	0.0100	144.00
9-L	1	4.90	4.20	6	360x40	42 #3 @ 10 cm	1 (b)	Top	1	546.84	14.90	67.39	0.0100	144.00
				2		---	17 (h)	Bot	1	546.84	14.90	67.39	0.0100	144.00
9-L	S	3.50	2.88	6	360x40	29 #3 @ 10 cm	1 (b)	Top	1	585.81	15.96	72.19	0.0100	144.00
				2		---	17 (h)	Bot	1	585.81	15.96	72.19	0.0100	144.00
10-L	2	4.90	4.20	3	50x50	8 #3 @ 10 cm (end)	--	Top	1	37.70	0.57	3.02	0.0100	19.63
				2		14 #3 @ 20 cm (ctr)	--	Bot	1	37.70	0.57	3.04	0.0100	19.63
10-L	1	4.90	3.93	3	50x50	8 #3 @ 10 cm (end)	--	Top	1	68.95	1.05	7.28	0.0100	19.63
				2		12 #3 @ 20 cm (ctr)	--	Bot	2	19.45	0.81	16.87	0.0108	21.16
10-L	S	3.50	3.15	3	50x50	6 #3 @ 10 cm (end)	--	Top	1	169.57	2.58	11.13	0.0100	19.63
				2		10 #3 @ 20 cm (ctr)	--	Bot	1	169.57	2.58	6.27	0.0100	19.63
8-K	7	3.50	3.00	1	180x50	30 #3 @ 10 cm	2 (b)	Top	1	14.39	0.44	7.85	0.0100	90.00
				2		---	8 (h)	Bot	1	14.39	0.44	19.65	0.0100	90.00
8-K	6	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	94.26	2.85	24.26	0.0100	90.00
				2		---	8 (h)	Bot	1	94.26	2.85	23.98	0.0100	90.00
8-K	5	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	174.41	5.27	20.33	0.0100	90.00
				2		---	8 (h)	Bot	1	174.41	5.27	24.11	0.0100	90.00

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
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Column	Story	L	Lu	Sec	bxh	TIES	XTIES	Sec	LdCmb	Pu	Mu2	Mu3	RHO	As
8-K	4	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	254.51	7.70	19.77	0.0100	90.00
				2		---	8 (h)	Bot	1	254.51	7.70	25.78	0.0100	90.00
8-K	3	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	334.16	10.10	23.14	0.0100	90.00
				2		---	8 (h)	Bot	1	334.16	10.10	27.14	0.0100	90.00
8-K	2	4.90	4.20	1	180x50	19 #3 @ 10 cm (end)	2 (b)	Top	1	420.52	12.72	29.12	0.0100	90.00
				2		3 #3 @ 20 cm (ctr)	8 (h)	Bot	1	420.52	12.72	31.41	0.0100	90.00
8-K	1	4.90	4.20	1	180x50	19 #3 @ 10 cm (end)	2 (b)	Top	1	506.39	15.31	35.06	0.0100	90.00
				2		2 #3 @ 20 cm (ctr)	8 (h)	Bot	1	506.39	15.31	35.06	0.0100	90.00
8-K	S	3.50	2.88	1	180x50	29 #3 @ 10 cm	2 (b)	Top	1	610.49	18.46	42.27	0.0100	90.00
				2		---	8 (h)	Bot	1	610.49	18.46	42.27	0.0100	90.00
9-K	7	3.50	3.00	1	180x50	30 #3 @ 10 cm	2 (b)	Top	1	13.94	0.42	7.05	0.0100	90.00
				2		---	8 (h)	Bot	1	13.94	0.42	17.66	0.0100	90.00
9-K	6	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	91.50	2.77	24.76	0.0100	90.00
				2		---	8 (h)	Bot	1	91.50	2.77	20.61	0.0100	90.00
9-K	5	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	169.40	5.12	22.41	0.0100	90.00
				2		---	8 (h)	Bot	1	169.40	5.12	19.78	0.0100	90.00
9-K	4	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	247.43	7.48	24.15	0.0100	90.00
				2		---	8 (h)	Bot	1	247.43	7.48	17.13	0.0100	90.00
9-K	3	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	325.40	9.84	25.59	0.0100	90.00
				2		---	8 (h)	Bot	1	325.40	9.84	28.28	0.0100	90.00
9-K	2	4.90	4.20	1	180x50	19 #3 @ 10 cm (end)	2 (b)	Top	1	390.14	11.80	31.12	0.0100	90.00
				2		3 #3 @ 20 cm (ctr)	8 (h)	Bot	1	390.14	11.80	27.01	0.0100	90.00
9-K	1	4.90	4.20	1	180x50	19 #3 @ 10 cm (end)	2 (b)	Top	1	462.10	13.97	32.00	0.0100	90.00
				2		2 #3 @ 20 cm (ctr)	8 (h)	Bot	1	462.10	13.97	32.00	0.0100	90.00
9-K	S	3.50	2.88	1	180x50	29 #3 @ 10 cm	2 (b)	Top	1	492.61	14.90	38.20	0.0100	90.00
				2		---	8 (h)	Bot	1	492.61	14.90	34.11	0.0100	90.00
10-K	2	4.90	4.20	3	50x50	8 #3 @ 10 cm (end)	--	Top	1	41.06	0.63	1.38	0.0100	19.63
				2		14 #3 @ 20 cm (ctr)	--	Bot	1	41.06	0.63	1.70	0.0100	19.63
10-K	1	4.90	3.93	3	50x50	8 #3 @ 10 cm (end)	--	Top	1	75.11	1.14	6.39	0.0100	19.63
				2		12 #3 @ 20 cm (ctr)	--	Bot	1	75.11	1.14	9.61	0.0100	19.63
10-K	S	3.50	3.15	3	50x50	6 #3 @ 10 cm (end)	--	Top	1	176.55	2.69	10.86	0.0100	19.63
				2		10 #3 @ 20 cm (ctr)	--	Bot	1	176.55	2.69	6.12	0.0100	19.63
8-J	7	3.50	3.00	1	180x50	30 #3 @ 10 cm	2 (b)	Top	1	14.35	0.43	7.96	0.0100	90.00
				2		---	8 (h)	Bot	1	14.35	0.64	20.20	0.0100	90.00
8-J	6	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	95.68	2.89	25.65	0.0100	90.00
				2		---	8 (h)	Bot	1	95.68	2.89	24.58	0.0100	90.00
8-J	5	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	176.95	5.35	21.45	0.0100	90.00
				2		---	8 (h)	Bot	1	176.95	5.35	24.62	0.0100	90.00
8-J	4	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	258.18	7.81	21.16	0.0100	90.00
				2		---	8 (h)	Bot	1	258.18	7.81	25.54	0.0100	90.00
8-J	3	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	339.35	10.26	23.50	0.0100	90.00
				2		---	8 (h)	Bot	1	339.35	10.26	28.91	0.0100	90.00
8-J	2	4.90	4.20	1	180x50	19 #3 @ 10 cm (end)	2 (b)	Top	1	426.10	12.89	29.50	0.0100	90.00
				2		3 #3 @ 20 cm (ctr)	8 (h)	Bot	1	426.10	12.89	33.13	0.0100	90.00
8-J	1	4.90	4.20	1	180x50	19 #3 @ 10 cm (end)	2 (b)	Top	1	512.77	15.51	35.50	0.0100	90.00
				2		2 #3 @ 20 cm (ctr)	8 (h)	Bot	1	512.77	15.51	35.50	0.0100	90.00
8-J	S	3.50	2.88	1	180x50	29 #3 @ 10 cm	2 (b)	Top	1	611.73	18.50	42.36	0.0100	90.00
				2		---	8 (h)	Bot	1	611.73	18.50	42.36	0.0100	90.00
9-J	7	3.50	3.00	1	180x50	30 #3 @ 10 cm	2 (b)	Top	1	14.06	0.57	6.92	0.0100	90.00
				2		---	8 (h)	Bot	1	14.06	0.89	18.28	0.0100	90.00
9-J	6	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	93.54	2.83	25.08	0.0100	90.00
				2		---	8 (h)	Bot	1	93.54	2.83	21.31	0.0100	90.00
9-J	5	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	172.99	5.23	22.39	0.0100	90.00
				2		---	8 (h)	Bot	1	172.99	5.23	20.32	0.0100	90.00
9-J	4	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	252.49	7.64	23.92	0.0100	90.00
				2		---	8 (h)	Bot	1	252.49	7.64	17.72	0.0100	90.00
9-J	3	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	332.19	10.05	25.05	0.0100	90.00
				2		---	8 (h)	Bot	1	332.19	10.05	25.89	0.0100	90.00
9-J	2	4.90	4.20	1	180x50	19 #3 @ 10 cm (end)	2 (b)	Top	1	398.32	12.05	29.98	0.0100	90.00
				2		3 #3 @ 20 cm (ctr)	8 (h)	Bot	1	398.32	12.05	27.58	0.0100	90.00
9-J	1	4.90	4.20	1	180x50	19 #3 @ 10 cm (end)	2 (b)	Top	1	471.28	14.25	32.63	0.0100	90.00
				2		2 #3 @ 20 cm (ctr)	8 (h)	Bot	1	471.28	14.25	32.63	0.0100	90.00
9-J	S	3.50	2.88	1	180x50	29 #3 @ 10 cm	2 (b)	Top	1	502.41	15.19	39.78	0.0100	90.00
				2		---	8 (h)	Bot	1	502.41	15.19	34.79	0.0100	90.00
10-J	2	4.90	4.20	3	50x50	8 #3 @ 10 cm (end)	--	Top	1	41.92	0.64	2.13	0.0100	19.63
				2		14 #3 @ 20 cm (ctr)	--	Bot	1	41.92	0.64	2.49	0.0100	19.63
10-J	1	4.90	4.20	3	50x50	8 #3 @ 10 cm (end)	--	Top	1	76.54	1.17	6.21	0.0100	19.63
				2		13 #3 @ 20 cm (ctr)	--	Bot	1	76.54	1.17	9.06	0.0100	19.63

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Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
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Column	Story	L	Lu	Sec	bxh	TIES	XTIES	Sec	LdCmb	Pu	Mu2	Mu3	RHO	As
10-J	S	3.50	3.15	3	50x50	6 #3 @ 10 cm (end)	--	Top	1	178.17	2.72	10.79	0.0100	19.63
				2		10 #3 @ 20 cm (ctr)	--	Bot	1	178.17	2.72	6.09	0.0100	19.63
8-I	7	3.50	3.00	1	180x50	30 #3 @ 10 cm	2 (b)	Top	1	14.24	0.57	8.10	0.0100	90.00
				2		---	8 (h)	Bot	1	14.24	1.46	19.81	0.0100	90.00
8-I	6	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	93.30	2.82	25.67	0.0100	90.00
				2		---	8 (h)	Bot	1	93.30	2.82	24.10	0.0100	90.00
8-I	5	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	172.39	5.21	21.64	0.0100	90.00
				2		---	8 (h)	Bot	1	172.39	5.21	24.22	0.0100	90.00
8-I	4	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	251.43	7.60	21.55	0.0100	90.00
				2		---	8 (h)	Bot	1	251.43	7.60	23.87	0.0100	90.00
8-I	3	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	330.38	9.99	22.88	0.0100	90.00
				2		---	8 (h)	Bot	1	330.38	9.99	31.14	0.0100	90.00
8-I	2	4.90	4.20	1	180x50	19 #3 @ 10 cm (end)	2 (b)	Top	1	413.45	12.50	28.63	0.0100	90.00
				2		3 #3 @ 20 cm (ctr)	8 (h)	Bot	1	413.45	12.50	28.63	0.0100	90.00
8-I	1	4.90	4.20	1	180x50	19 #3 @ 10 cm (end)	2 (b)	Top	1	496.34	15.01	34.37	0.0100	90.00
				2		2 #3 @ 20 cm (ctr)	8 (h)	Bot	1	496.34	15.01	43.16	0.0100	90.00
8-I	S	3.50	2.88	1	180x50	29 #3 @ 10 cm	2 (b)	Top	1	552.38	16.70	38.25	0.0100	90.00
				2		---	8 (h)	Bot	1	552.38	16.70	38.25	0.0100	90.00
9-I	7	3.50	3.00	1	180x50	30 #3 @ 10 cm	2 (b)	Top	1	13.85	0.72	6.62	0.0100	90.00
				2		---	8 (h)	Bot	1	13.85	1.56	17.41	0.0100	90.00
9-I	6	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	90.66	2.74	23.26	0.0100	90.00
				2		---	8 (h)	Bot	1	90.66	2.74	20.19	0.0100	90.00
9-I	5	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	167.50	5.07	20.75	0.0100	90.00
				2		---	8 (h)	Bot	1	167.50	5.07	19.55	0.0100	90.00
9-I	4	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	244.35	7.39	22.09	0.0100	90.00
				2		---	8 (h)	Bot	1	244.35	7.39	16.92	0.0100	90.00
9-I	3	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	321.27	9.72	22.28	0.0100	90.00
				2		---	8 (h)	Bot	1	321.27	9.72	32.85	0.0100	90.00
9-I	2	4.90	4.20	1	180x50	19 #3 @ 10 cm (end)	2 (b)	Top	1	382.15	11.56	43.18	0.0100	90.00
				2		3 #3 @ 20 cm (ctr)	8 (h)	Bot	1	382.15	11.56	34.29	0.0100	90.00
9-I	1	4.90	4.20	1	180x50	19 #3 @ 10 cm (end)	2 (b)	Top	1	445.38	13.47	36.93	0.0100	90.00
				2		2 #3 @ 20 cm (ctr)	8 (h)	Bot	1	445.38	13.47	30.84	0.0100	90.00
9-I	S	3.50	2.88	1	180x50	29 #3 @ 10 cm	2 (b)	Top	1	501.52	15.17	34.81	0.0100	90.00
				2		---	8 (h)	Bot	1	501.52	15.17	34.73	0.0100	90.00
10-I	2	4.90	4.20	4	45x45	8 #3 @ 10 cm (end)	1 (b)	Top	3	54.54	8.08	15.60	0.0116	23.41
				2		14 #3 @ 20 cm (ctr)	1 (h)	Bot	1	31.79	7.80	2.56	0.0100	20.25
10-I	1	4.90	4.20	4	45x45	8 #3 @ 10 cm (end)	1 (b)	Top	1	62.03	4.81	1.78	0.0100	20.25
				2		13 #3 @ 20 cm (ctr)	1 (h)	Bot	1	62.03	3.57	1.78	0.0100	20.25
10-I	S	3.50	3.15	4	45x45	6 #3 @ 10 cm (end)	1 (b)	Top	1	45.07	1.52	1.30	0.0100	20.25
				2		10 #3 @ 20 cm (ctr)	1 (h)	Bot	1	45.07	1.30	1.30	0.0100	20.25
8-H	7	3.50	3.00	1	180x50	30 #3 @ 10 cm	2 (b)	Top	1	14.04	0.78	8.21	0.0100	90.00
				2		---	8 (h)	Bot	1	14.04	0.42	19.90	0.0100	90.00
8-H	6	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	93.72	2.83	26.36	0.0100	90.00
				2		---	8 (h)	Bot	1	93.72	2.83	24.18	0.0100	90.00
8-H	5	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	173.30	5.24	22.29	0.0100	90.00
				2		---	8 (h)	Bot	1	173.30	5.24	24.28	0.0100	90.00
8-H	4	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	252.94	7.65	22.45	0.0100	90.00
				2		---	8 (h)	Bot	1	252.94	7.65	23.32	0.0100	90.00
8-H	3	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	332.67	10.06	23.03	0.0100	90.00
				2		---	8 (h)	Bot	1	332.67	10.06	31.62	0.0100	90.00
8-H	2	4.90	4.20	1	180x50	19 #3 @ 10 cm (end)	2 (b)	Top	1	415.30	12.56	28.76	0.0100	90.00
				2		3 #3 @ 20 cm (ctr)	8 (h)	Bot	1	415.30	12.56	28.76	0.0100	90.00
8-H	1	4.90	4.20	1	180x50	19 #3 @ 10 cm (end)	2 (b)	Top	1	497.84	15.05	34.47	0.0100	90.00
				2		2 #3 @ 20 cm (ctr)	8 (h)	Bot	1	497.84	15.05	41.97	0.0100	90.00
8-H	S	3.50	2.88	1	180x50	29 #3 @ 10 cm	2 (b)	Top	1	561.68	16.99	38.89	0.0100	90.00
				2		---	8 (h)	Bot	1	561.68	16.99	38.89	0.0100	90.00
9-H	7	3.50	3.00	1	180x50	30 #3 @ 10 cm	2 (b)	Top	1	13.22	1.62	6.00	0.0100	90.00
				2		---	8 (h)	Bot	1	13.22	1.55	17.10	0.0100	90.00
9-H	6	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	89.05	2.69	22.45	0.0100	90.00
				2		---	8 (h)	Bot	1	89.05	2.69	19.94	0.0100	90.00
9-H	5	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	164.79	4.98	19.84	0.0100	90.00
				2		---	8 (h)	Bot	1	164.79	4.98	18.90	0.0100	90.00
9-H	4	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	240.68	7.28	20.95	0.0100	90.00
				2		---	8 (h)	Bot	1	240.68	7.28	18.75	0.0100	90.00
9-H	3	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	316.65	9.58	21.93	0.0100	90.00
				2		---	8 (h)	Bot	1	316.65	9.58	21.93	0.0100	90.00
9-H	2	4.90	4.20	1	180x50	19 #3 @ 10 cm (end)	2 (b)	Top	1	396.19	11.98	27.43	0.0100	90.00
				2		3 #3 @ 20 cm (ctr)	8 (h)	Bot	1	396.19	11.98	27.43	0.0100	90.00

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Column	Story	L	Lu	Sec	bxh	TIES	XTIES	Sec	LdCmb	Pu	Mu2	Mu3	RHO	As
9-H	1	4.90	4.20	1	180x50	19 #3 @ 10 cm (end)	2 (b)	Top	1	476.19	14.40	32.97	0.0100	90.00
				2		2 #3 @ 20 cm (ctr)	8 (h)	Bot	1	476.19	14.40	32.97	0.0100	90.00
9-H	S	3.50	2.88	1	180x50	29 #3 @ 10 cm	2 (b)	Top	1	541.85	16.39	42.51	0.0100	90.00
				2		---	8 (h)	Bot	1	541.85	16.39	37.52	0.0100	90.00
8-E	7	3.50	3.00	1	180x50	30 #3 @ 10 cm	2 (b)	Top	1	14.17	0.82	8.55	0.0100	90.00
				2		---	8 (h)	Bot	1	14.17	0.43	19.97	0.0100	90.00
8-E	6	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	96.30	2.91	28.44	0.0100	90.00
				2		---	8 (h)	Bot	1	96.30	2.91	25.17	0.0100	90.00
8-E	5	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	178.41	5.40	24.60	0.0100	90.00
				2		---	8 (h)	Bot	1	178.41	5.40	20.33	0.0100	90.00
8-E	4	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	260.64	7.88	24.35	0.0100	90.00
				2		---	8 (h)	Bot	1	260.64	7.88	45.73	0.0100	90.00
8-E	3	3.50	2.53	1	180x50	25 #3 @ 10 cm	2 (b)	Top	1	342.40	10.35	31.48	0.0100	90.00
				2		---	8 (h)	Bot	1	342.40	10.35	105.30	0.0100	90.00
8-E	1-2	9.80	9.38	2	90x90	17 #3 @ 10 cm (end)	--	Top	1	427.06	6.62	18.35	0.0100	63.62
				3		30 #3 @ 20 cm (ctr)	--	Bot	1	434.43	6.62	18.35	0.0100	63.62
8-E	1-2	9.80	9.38	2	90x90	17 #3 @ 10 cm (end)	--	Top	1	427.06	6.62	18.35	0.0100	63.62
				3		30 #3 @ 20 cm (ctr)	--	Bot	1	434.43	6.62	18.35	0.0100	63.62
8-E	S	3.50	2.88	2	90x90	10 #3 @ 10 cm (end)	--	Top	1	521.02	7.94	22.01	0.0100	63.62
				3		5 #3 @ 20 cm (ctr)	--	Bot	1	521.02	7.94	22.01	0.0100	63.62
9-E	7	3.50	3.00	1	180x50	30 #3 @ 10 cm	2 (b)	Top	1	13.33	0.84	5.65	0.0100	90.00
				2		---	8 (h)	Bot	1	13.33	0.40	17.79	0.0100	90.00
9-E	6	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	91.37	2.76	21.80	0.0100	90.00
				2		---	8 (h)	Bot	1	91.37	2.76	21.62	0.0100	90.00
9-E	5	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	169.34	5.12	19.07	0.0100	90.00
				2		---	8 (h)	Bot	1	169.34	5.12	16.06	0.0100	90.00
9-E	4	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	247.37	7.48	18.52	0.0100	90.00
				2		---	8 (h)	Bot	1	247.37	7.48	45.20	0.0100	90.00
9-E	3	3.50	2.53	1	180x50	25 #3 @ 10 cm	2 (b)	Top	1	324.85	9.82	22.84	0.0100	90.00
				2		---	8 (h)	Bot	1	324.85	9.82	108.78	0.0100	90.00
9-E	1-2	9.80	9.38	2	90x90	17 #3 @ 10 cm (end)	--	Top	1	404.27	6.27	17.39	0.0100	63.62
				3		30 #3 @ 20 cm (ctr)	--	Bot	1	411.63	6.27	17.39	0.0100	63.62
9-E	1-2	9.80	9.38	2	90x90	17 #3 @ 10 cm (end)	--	Top	1	404.27	6.27	17.39	0.0100	63.62
				3		30 #3 @ 20 cm (ctr)	--	Bot	1	411.63	6.27	17.39	0.0100	63.62
9-E	S	3.50	2.88	2	90x90	10 #3 @ 10 cm (end)	--	Top	1	501.68	7.65	21.72	0.0100	63.62
				3		5 #3 @ 20 cm (ctr)	--	Bot	1	501.68	7.65	21.19	0.0100	63.62
8-D	7	3.50	3.00	1	180x50	30 #3 @ 10 cm	2 (b)	Top	1	14.27	1.11	8.77	0.0100	90.00
				2		---	8 (h)	Bot	1	14.27	1.39	19.72	0.0100	90.00
8-D	6	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	95.78	2.90	28.62	0.0100	90.00
				2		---	8 (h)	Bot	1	95.78	2.90	24.86	0.0100	90.00
8-D	5	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	177.21	5.36	24.89	0.0100	90.00
				2		---	8 (h)	Bot	1	177.21	5.36	19.68	0.0100	90.00
8-D	4	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	258.63	7.82	24.71	0.0100	90.00
				2		---	8 (h)	Bot	1	258.63	7.82	45.99	0.0100	90.00
8-D	3	3.50	2.53	1	180x50	25 #3 @ 10 cm	2 (b)	Top	1	339.80	10.28	32.83	0.0100	90.00
				2		---	8 (h)	Bot	1	339.80	10.28	112.76	0.0100	90.00
8-D	1-2	9.80	9.38	2	90x90	17 #3 @ 10 cm (end)	--	Top	1	420.83	6.53	18.09	0.0100	63.62
				3		30 #3 @ 20 cm (ctr)	--	Bot	1	428.20	6.53	18.09	0.0100	63.62
8-D	1-2	9.80	9.38	2	90x90	17 #3 @ 10 cm (end)	--	Top	1	420.83	6.53	18.09	0.0100	63.62
				3		30 #3 @ 20 cm (ctr)	--	Bot	1	428.20	6.53	18.09	0.0100	63.62
8-D	S	3.50	2.88	2	90x90	10 #3 @ 10 cm (end)	--	Top	1	491.10	7.48	27.64	0.0100	63.62
				3		5 #3 @ 20 cm (ctr)	--	Bot	1	491.10	7.48	20.74	0.0100	63.62
9-D	7	3.50	3.00	1	180x50	30 #3 @ 10 cm	2 (b)	Top	1	12.96	2.96	5.28	0.0100	90.00
				2		---	8 (h)	Bot	1	12.96	3.44	17.43	0.0100	90.00
9-D	6	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	89.49	3.12	20.74	0.0100	90.00
				2		---	8 (h)	Bot	1	89.49	3.46	21.06	0.0100	90.00
9-D	5	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	165.50	5.00	17.85	0.0100	90.00
				2		---	8 (h)	Bot	1	165.50	5.00	15.49	0.0100	90.00
9-D	4	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	241.83	7.31	17.19	0.0100	90.00
				2		---	8 (h)	Bot	1	241.83	7.31	46.00	0.0100	90.00
9-D	3	3.50	2.53	1	180x50	25 #3 @ 10 cm	2 (b)	Top	1	316.85	9.58	21.94	0.0100	90.00
				2		---	8 (h)	Bot	1	316.85	9.58	113.20	0.0100	90.00
9-D	1-2	9.80	9.38	2	90x90	17 #3 @ 10 cm (end)	--	Top	1	396.07	6.15	17.04	0.0100	63.62
				3		30 #3 @ 20 cm (ctr)	--	Bot	1	403.44	6.15	17.04	0.0100	63.62
9-D	1-2	9.80	9.38	2	90x90	17 #3 @ 10 cm (end)	--	Top	1	396.07	6.15	17.04	0.0100	63.62
				3		30 #3 @ 20 cm (ctr)	--	Bot	1	403.44	6.15	17.04	0.0100	63.62
9-D	S	3.50	2.88	2	90x90	10 #3 @ 10 cm (end)	--	Top	1	469.98	7.16	28.54	0.0100	63.62
				3		5 #3 @ 20 cm (ctr)	--	Bot	1	469.98	7.16	19.85	0.0100	63.62

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Engineer: RODRIGO CASTRO S
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Column	Story	L	Lu	Sec	bxh	TIES	XTIES	Sec	LdCmb	Pu	Mu2	Mu3	RHO	As
8-C	7	3.50	3.00	1	180x50	30 #3 @ 10 cm	2 (b)	Top	1	21.07	24.06	12.69	0.0100	90.00
				2		---	8 (h)	Bot	1	21.07	17.39	15.57	0.0100	90.00
8-C	6	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	101.11	12.90	21.51	0.0100	90.00
				2		---	8 (h)	Bot	1	101.11	13.78	18.70	0.0100	90.00
8-C	5	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	181.39	15.41	20.05	0.0100	90.00
				2		---	8 (h)	Bot	1	181.39	15.58	14.16	0.0100	90.00
8-C	4	3.50	2.80	1	180x50	28 #3 @ 10 cm	2 (b)	Top	1	261.94	14.32	20.07	0.0100	90.00
				2		---	8 (h)	Bot	1	261.94	12.29	39.86	0.0100	90.00
8-C	3	3.50	2.53	1	180x50	25 #3 @ 10 cm	2 (b)	Top	1	341.58	16.14	28.26	0.0100	90.00
				2		---	8 (h)	Bot	1	341.58	19.80	119.37	0.0100	90.00
8-C	1-2	9.80	9.38	2	90x90	17 #3 @ 10 cm (end)	--	Top	1	429.91	6.66	18.47	0.0100	63.62
				3		30 #3 @ 20 cm (ctr)	--	Bot	1	437.28	6.66	18.47	0.0100	63.62
8-C	1-2	9.80	9.38	2	90x90	17 #3 @ 10 cm (end)	--	Top	1	429.91	6.66	18.47	0.0100	63.62
				3		30 #3 @ 20 cm (ctr)	--	Bot	1	437.28	6.66	18.47	0.0100	63.62
8-C	S	3.50	2.88	2	90x90	10 #3 @ 10 cm (end)	--	Top	1	481.08	21.33	20.32	0.0100	63.62
				3		5 #3 @ 20 cm (ctr)	--	Bot	1	481.08	11.82	20.32	0.0100	63.62
9-C	7	3.50	2.73	6	360x40	27 #3 @ 10 cm	1 (b)	Top	1	27.21	28.01	3.35	0.0100	144.00
				2		---	17 (h)	Bot	1	27.21	16.38	9.07	0.0100	144.00
9-C	6	3.50	2.80	6	360x40	28 #3 @ 10 cm	1 (b)	Top	1	118.04	7.51	14.55	0.0100	144.00
				2		---	17 (h)	Bot	1	118.04	11.38	14.55	0.0100	144.00
9-C	5	3.50	2.80	6	360x40	28 #3 @ 10 cm	1 (b)	Top	1	209.15	13.00	25.78	0.0100	144.00
				2		---	17 (h)	Bot	1	209.15	10.44	25.78	0.0100	144.00
9-C	4	3.50	2.80	6	360x40	28 #3 @ 10 cm	1 (b)	Top	1	299.67	13.92	36.93	0.0100	144.00
				2		---	17 (h)	Bot	1	299.67	19.13	36.93	0.0100	144.00
9-C	3	3.50	2.80	6	360x40	28 #3 @ 10 cm	1 (b)	Top	1	389.92	10.62	48.05	0.0100	144.00
				2		---	17 (h)	Bot	1	389.92	10.62	48.05	0.0100	144.00
9-C	1-2	9.80	9.38	6	360x40	37 #3 @ 10 cm (end)	1 (b)	Top	1	489.10	13.78	62.46	0.0100	144.00
				2		10 #3 @ 20 cm (ctr)	17 (h)	Bot	1	505.78	13.78	96.14	0.0100	144.00
9-C	1-2	9.80	9.38	6	360x40	37 #3 @ 10 cm (end)	1 (b)	Top	1	489.10	13.78	62.46	0.0100	144.00
				2		10 #3 @ 20 cm (ctr)	17 (h)	Bot	1	505.78	13.78	96.14	0.0100	144.00
9-C	S	3.50	2.88	6	360x40	43 #3 @ 6.66 cm	1 (b)	Top	1	567.24	15.45	116.04	0.0100	144.00
				2		---	17 (h)	Bot	1	567.24	15.45	69.91	0.0100	144.00

Design Results - Beams

BEAM: 10(D-E) FLOOR: 1

Length: L = 7.50 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.25 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.73	1.45	2.18	2.90	3.63	4.35	5.08	5.80	6.53	7.25
Mu(-), ton-m:	-41.39	-28.26	-15.91	-8.28	-8.28	-8.28	-8.28	-8.28	-8.28	-8.28	-8.28
Mu(+), ton-m:	13.80	8.28	8.28	8.28	8.28	16.79	18.98	19.42	19.18	18.15	16.36
As(-), cm2:	18.00	12.08	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.54	5.50	5.16	4.83	4.58	4.32	1.54	1.42	1.65	1.89	1.92
Tu, ton-m:	0.80	0.80	0.80	0.80	0.80	0.80	0.91	0.91	0.91	0.91	0.91
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

10-D 11 #3@ 15 13 #3@ 30 11 #3@ 15 10-E

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
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BEAM: 10(E-F) FLOOR: 1

Length: L = 7.50 m Lu = 7.25 m a = 0.25 m c = 0.00 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.98	1.70	2.43	3.15	3.88	4.60	5.33	6.05	6.78	7.50
Mu(-), ton-m:	-8.89	-8.89	-8.89	-8.89	-8.89	-8.89	-8.89	-8.89	-18.25	-30.97	-44.47
Mu(+), ton-m:	16.30	17.86	18.66	18.67	17.90	15.05	8.89	8.89	8.89	8.89	14.82
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.29	19.42
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	1.90	1.88	1.64	1.46	1.70	3.67	4.78	5.04	5.32	5.66	5.70
Tu, ton-m:	1.01	1.01	1.01	1.01	1.01	0.84	0.76	0.76	0.76	0.76	0.76
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

10-E 11 #3@ 15 13 #3@ 30 11 #3@ 15 10-F

BEAM: 10(I-J) FLOOR: 1

Length: L = 7.50 m Lu = 7.03 m a = 0.23 m c = 0.25 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.23	0.93	1.63	2.33	3.04	3.74	4.44	5.14	5.84	6.55	7.25
Mu(-), ton-m:	-41.65	-24.80	-9.58	-8.79	-8.79	-8.79	-8.79	-8.79	-8.79	-25.21	-43.96
Mu(+), ton-m:	13.88	8.79	8.79	8.79	21.43	35.35	28.26	13.22	8.79	8.79	14.65
As(-), cm2:	18.12	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.74	19.19
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	15.25	12.09	10.71	10.71	10.71	10.71
vu, Kg/cm2:	8.18	8.16	7.92	7.69	7.46	7.23	8.09	8.32	8.55	8.78	8.80
Tu, ton-m:	1.63	1.63	1.63	1.63	1.63	1.63	1.32	1.32	1.32	1.32	1.32
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

10-I 11 #3@ 15 12 #3@ 30 11 #3@ 15 10-J

BEAM: 10(J-K) FLOOR: 1

Length: L = 7.50 m Lu = 7.00 m a = 0.25 m c = 0.25 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-45.71	-27.44	-10.82	-9.14	-9.14	-9.14	-9.14	-9.14	-10.70	-27.28	-45.54
Mu(+), ton-m:	15.24	9.14	9.14	10.33	24.79	38.52	24.68	10.22	9.14	9.14	15.18
As(-), cm2:	20.00	11.72	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.65	19.92
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	16.69	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	8.69	8.67	8.44	8.22	7.99	7.76	7.98	8.21	8.44	8.67	8.69
Tu, ton-m:	1.26	1.26	1.26	1.26	1.26	1.26	1.25	1.25	1.25	1.25	1.25
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

10-J 11 #3@ 15 12 #3@ 30 11 #3@ 15 10-K

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Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
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BEAM: 10(K-L) FLOOR: 1

Length: L = 7.50 m Lu = 7.00 m a = 0.25 m c = 0.25 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-45.46	-27.24	-10.69	-9.09	-9.09	-9.09	-9.09	-9.09	-10.53	-27.00	-45.15
Mu(+), ton-m:	15.15	9.09	9.09	10.10	24.61	38.42	24.68	10.24	9.09	9.09	15.05
As(-), cm2:	19.88	11.63	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.53	19.74
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	16.65	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	8.67	8.65	8.43	8.20	7.97	7.74	7.95	8.17	8.40	8.63	8.65
Tu, ton-m:	1.27	1.27	1.27	1.27	1.27	1.27	1.26	1.26	1.26	1.26	1.26
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

10-K 11 #3@ 15 12 #3@ 30 11 #3@ 15 10-L

BEAM: 10(L-M) FLOOR: 1

Length: L = 7.50 m Lu = 7.00 m a = 0.25 m c = 0.25 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-45.18	-27.08	-10.63	-9.28	-9.28	-9.28	-9.28	-9.28	-11.28	-28.07	-46.40
Mu(+), ton-m:	15.06	9.28	9.28	10.15	24.46	38.11	24.30	9.77	9.28	9.28	15.47
As(-), cm2:	19.75	11.56	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.00	20.32
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	16.51	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	8.67	8.65	8.42	8.19	7.96	7.73	8.04	8.27	8.50	8.73	8.75
Tu, ton-m:	1.27	1.27	1.27	1.27	1.27	1.27	1.24	1.24	1.24	1.24	1.24
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

10-L 11 #3@ 15 12 #3@ 30 11 #3@ 15 10-M

BEAM: 10(M-N) FLOOR: 1

Length: L = 7.50 m Lu = 7.00 m a = 0.25 m c = 0.25 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-47.17	-28.29	-11.11	-9.43	-9.43	-9.43	-9.43	-9.43	-9.43	-21.83	-39.13
Mu(+), ton-m:	15.72	9.43	9.43	10.51	25.69	40.17	27.16	13.57	9.43	9.43	13.04
As(-), cm2:	20.68	12.10	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	16.97
As(+), cm2:	10.71	10.71	10.71	10.71	10.95	17.44	11.60	10.71	10.71	10.71	10.71
vu, Kg/cm2:	8.88	8.86	8.64	8.41	8.18	7.95	7.64	7.87	8.10	8.33	8.35
Tu, ton-m:	1.29	1.29	1.29	1.29	1.29	1.29	1.32	1.32	1.32	1.32	1.32
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

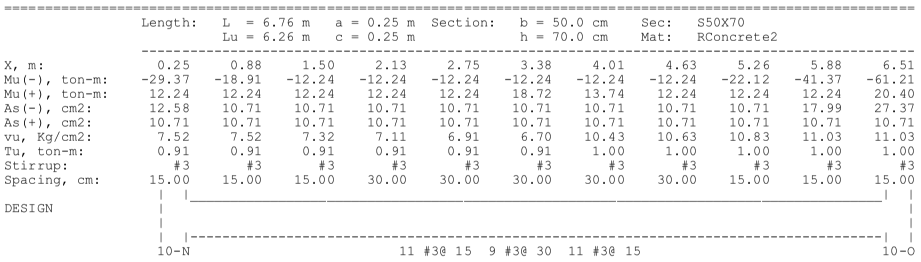
DESIGN

10-M 11 #3@ 15 12 #3@ 30 11 #3@ 15 10-N

BEAM: 10(N-O) FLOOR: 1

Length: L = 6.76 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 6.26 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

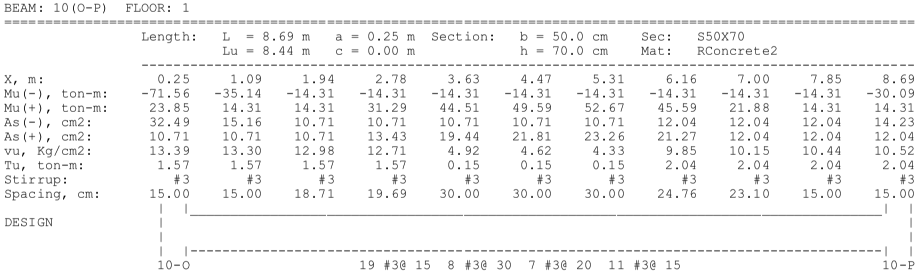
X, m:	0.25	0.88	1.50	2.13	2.75	3.38	4.01	4.63	5.26	5.88	6.51
Mu(-), ton-m:	-29.37	-18.91	-12.24	-12.24	-12.24	-12.24	-12.24	-12.24	-22.12	-41.37	-61.21
Mu(+), ton-m:	12.24	12.24	12.24	12.24	12.24	18.72	13.74	12.24	12.24	12.24	20.40
As(-), cm2:	12.58	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	17.99	27.37
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.52	7.52	7.32	7.11	6.91	6.70	10.43	10.63	10.83	11.03	11.03
Tu, ton-m:	0.91	0.91	0.91	0.91	0.91	0.91	1.00	1.00	1.00	1.00	1.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00



BEAM: 10(O-P) FLOOR: 1

Length: L = 8.69 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 8.44 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

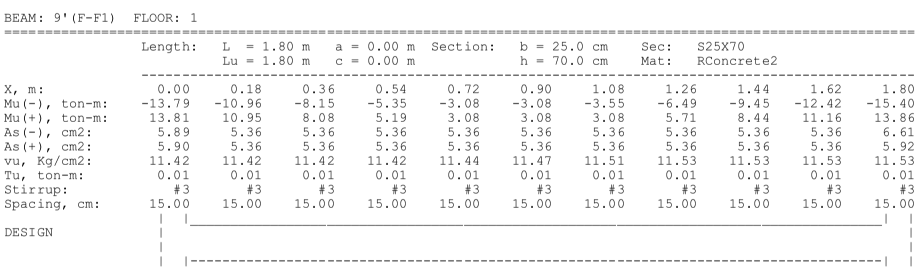
X, m:	0.25	1.09	1.94	2.78	3.63	4.47	5.31	6.16	7.00	7.85	8.69
Mu(-), ton-m:	-71.56	-35.14	-14.31	-14.31	-14.31	-14.31	-14.31	-14.31	-14.31	-14.31	-30.09
Mu(+), ton-m:	23.85	14.31	14.31	31.29	44.51	49.59	52.67	45.59	21.88	14.31	14.31
As(-), cm2:	32.49	15.16	10.71	10.71	10.71	10.71	10.71	12.04	12.04	12.04	14.23
As(+), cm2:	10.71	10.71	10.71	13.43	19.44	21.81	23.26	21.27	12.04	12.04	12.04
vu, Kg/cm2:	13.39	13.30	12.98	12.71	4.92	4.62	4.33	9.85	10.15	10.44	10.52
Tu, ton-m:	1.57	1.57	1.57	1.57	0.15	0.15	0.15	2.04	2.04	2.04	2.04
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	18.71	19.69	30.00	30.00	30.00	24.76	23.10	15.00	15.00



BEAM: 9'(F-F1) FLOOR: 1

Length: L = 1.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 1.80 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

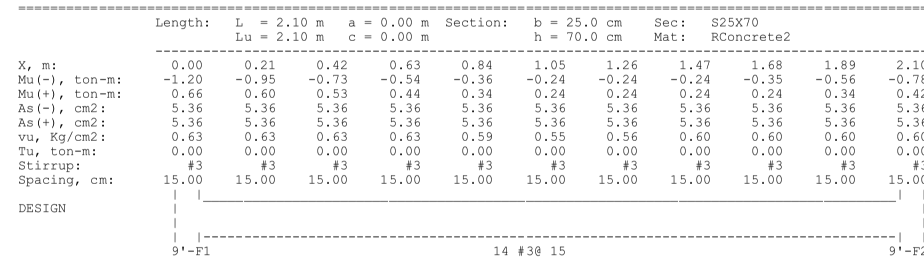
X, m:	0.00	0.18	0.36	0.54	0.72	0.90	1.08	1.26	1.44	1.62	1.80
Mu(-), ton-m:	-13.79	-10.96	-8.15	-5.35	-3.08	-3.08	-3.55	-6.49	-9.45	-12.42	-15.40
Mu(+), ton-m:	13.81	10.95	8.08	5.19	3.08	3.08	3.08	5.71	8.44	11.16	13.86
As(-), cm2:	5.89	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	6.61
As(+), cm2:	5.90	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.92
vu, Kg/cm2:	11.42	11.42	11.42	11.42	11.44	11.47	11.51	11.53	11.53	11.53	11.53
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00



BEAM: 9'(F1-F2) FLOOR: 1

Length: L = 2.10 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

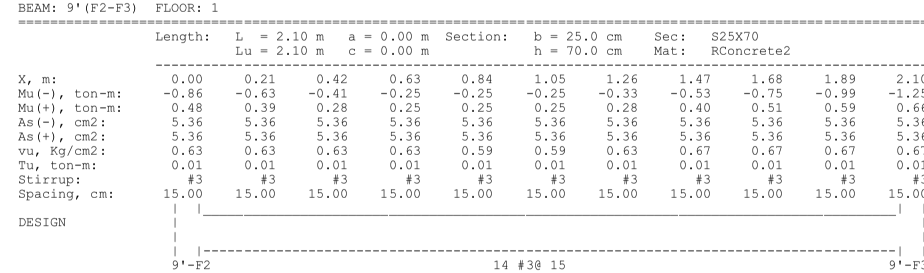
X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-1.20	-0.95	-0.73	-0.54	-0.36	-0.24	-0.24	-0.24	-0.35	-0.56	-0.78
Mu(+), ton-m:	0.66	0.60	0.53	0.44	0.34	0.24	0.24	0.24	0.24	0.34	0.42
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	0.63	0.63	0.63	0.63	0.59	0.55	0.56	0.60	0.60	0.60	0.60
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00



BEAM: 9'(F2-F3) FLOOR: 1

Length: L = 2.10 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

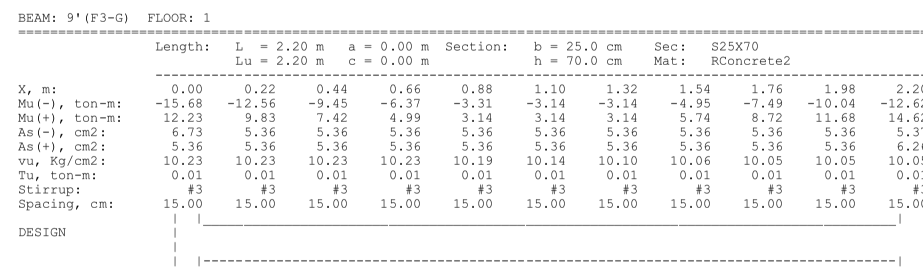
X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-0.86	-0.63	-0.41	-0.25	-0.25	-0.25	-0.33	-0.53	-0.75	-0.99	-1.25
Mu(+), ton-m:	0.48	0.39	0.28	0.25	0.25	0.25	0.28	0.40	0.51	0.59	0.66
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	0.63	0.63	0.63	0.63	0.59	0.59	0.63	0.67	0.67	0.67	0.67
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00



BEAM: 9'(F3-G) FLOOR: 1

Length: L = 2.20 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.20 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.22	0.44	0.66	0.88	1.10	1.32	1.54	1.76	1.98	2.20
Mu(-), ton-m:	-15.68	-12.56	-9.45	-6.37	-3.31	-3.14	-3.14	-4.95	-7.49	-10.04	-12.62
Mu(+), ton-m:	12.23	9.83	7.42	4.99	3.14	3.14	3.14	5.74	8.72	11.68	14.62
As(-), cm2:	6.73	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.37
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	6.26
vu, Kg/cm2:	10.23	10.23	10.23	10.23	10.19	10.14	10.10	10.06	10.05	10.05	10.05
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00



Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:45 a.m. 05/08/2010

BEAM: 9(B'-C) FLOOR: 1

Length: L = 3.80 m Lu = 3.60 m | a = 0.00 m c = 0.20 m | Section: b = 50.0 cm h = 70.0 cm | Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.36	0.72	1.08	1.44	1.80	2.16	2.52	2.88	3.24	3.60
Mu(-), ton-m:	-2.32	-1.63	-1.63	-1.63	-1.63	-2.01	-2.94	-4.01	-5.24	-6.61	-8.13
Mu(+), ton-m:	1.63	1.63	1.63	1.63	1.63	1.73	2.09	2.31	2.37	2.28	2.71
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	1.05	1.05	1.03	0.94	0.87	0.96	1.06	1.15	1.24	1.26	1.26
Tu, ton-m:	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	30.00	30.00	30.00	15.00	15.00	15.00	15.00

DESIGN

9-B' 24 #3@ 15 9-C

BEAM: 9(C-D) FLOOR: 1

Length: L = 7.50 m Lu = 6.85 m | a = 0.20 m c = 0.45 m | Section: b = 50.0 cm h = 70.0 cm | Sec: S50X70 Mat: RConcrete2

X, m:	0.20	0.89	1.57	2.26	2.94	3.63	4.31	5.00	5.68	6.37	7.05
Mu(-), ton-m:	-29.67	-17.88	-6.98	-6.56	-6.56	-6.56	-6.56	-6.56	-7.46	-19.81	-32.81
Mu(+), ton-m:	9.89	6.56	6.56	8.02	16.04	24.14	18.46	9.21	6.56	6.56	10.94
As(-), cm2:	12.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.11
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.71	5.70	5.53	5.35	5.17	5.00	5.58	5.75	5.91	6.07	6.08
Tu, ton-m:	0.53	0.53	0.53	0.53	0.53	0.53	0.40	0.40	0.40	0.40	0.40
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-C 11 #3@ 15 11 #3@ 30 11 #3@ 15 9-D

BEAM: 9(D-E) FLOOR: 1

Length: L = 7.50 m Lu = 6.60 m | a = 0.45 m c = 0.45 m | Section: b = 50.0 cm h = 70.0 cm | Sec: S50X70 Mat: RConcrete2

X, m:	0.45	1.11	1.77	2.43	3.09	3.75	4.41	5.07	5.73	6.39	7.05
Mu(-), ton-m:	-32.00	-19.88	-8.25	-6.63	-6.63	-6.63	-6.63	-6.63	-8.84	-20.76	-33.17
Mu(+), ton-m:	10.67	6.63	6.63	7.99	16.11	23.74	15.96	7.58	6.63	6.63	11.06
As(-), cm2:	13.75	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.27
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.99	5.99	5.83	5.67	5.52	5.36	5.62	5.77	5.93	6.09	6.09
Tu, ton-m:	0.15	0.15	0.15	0.15	0.15	0.15	0.09	0.09	0.09	0.09	0.09
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-D 11 #3@ 15 10 #3@ 30 11 #3@ 15 9-E

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:45 a.m. 05/08/2010

BEAM: 9(E-F) FLOOR: 1

Length: L = 7.50 m Lu = 7.05 m | a = 0.45 m c = 0.00 m | Section: b = 50.0 cm h = 70.0 cm | Sec: S50X70 Mat: RConcrete2

X, m:	0.45	1.16	1.86	2.57	3.27	3.98	4.68	5.39	6.09	6.80	7.50
Mu(-), ton-m:	-36.58	-22.22	-8.43	-7.32	-7.32	-7.32	-7.32	-7.32	-7.32	-17.48	-29.28
Mu(+), ton-m:	12.19	7.32	7.32	10.32	20.49	24.49	16.37	8.77	7.32	7.32	9.76
As(-), cm2:	15.81	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.54
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.48	6.47	6.30	6.13	5.96	4.94	5.13	5.32	5.51	5.70	5.72
Tu, ton-m:	0.12	0.12	0.12	0.12	0.12	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-E 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-F

BEAM: 9(F-F1) FLOOR: 1

Length: L = 1.80 m Lu = 1.80 m | a = 0.00 m c = 0.00 m | Section: b = 50.0 cm h = 70.0 cm | Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.18	0.36	0.54	0.72	0.90	1.08	1.26	1.44	1.62	1.80
Mu(-), ton-m:	-23.74	-19.82	-15.94	-12.10	-8.29	-4.75	-5.47	-7.63	-9.83	-12.07	-14.34
Mu(+), ton-m:	7.91	4.77	4.75	4.75	4.75	4.75	4.75	4.75	6.55	10.17	13.75
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	8.37	8.37	8.37	8.37	8.35	8.30	8.25	8.23	8.23	8.23	8.23
Tu, ton-m:	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9-F 12 #3@ 15 9-F1

BEAM: 9(F1-F2) FLOOR: 1

Length: L = 2.10 m Lu = 2.10 m | a = 0.00 m c = 0.00 m | Section: b = 50.0 cm h = 70.0 cm | Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-7.07	-6.33	-5.63	-4.96	-4.33	-3.74	-3.19	-2.67	-2.19	-1.74	-1.41
Mu(+), ton-m:	6.64	6.22	5.77	5.28	4.75	4.19	3.58	2.94	2.27	1.55	1.41
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	1.39	1.39	1.39	1.39	1.35	1.33	1.37	1.41	1.41	1.41	1.41
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9-F1 14 #3@ 15 9-F2

BEAM: 9(F2-F3) FLOOR: 1

Length: L = 2.10 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-1.63	-1.63	-2.06	-2.69	-3.36	-4.07	-4.81	-5.59	-6.41	-7.27	-8.16
Mu(+), ton-m:	1.63	1.63	2.07	2.76	3.42	4.03	4.61	5.16	5.66	6.13	6.56
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	1.45	1.45	1.45	1.45	1.47	1.52	1.56	1.60	1.60	1.60	1.60
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9-F2 14 #3@ 15 9-F3

BEAM: 9(F3-G) FLOOR: 1

Length: L = 2.20 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.20 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.22	0.44	0.66	0.88	1.10	1.32	1.54	1.76	1.98	2.20
Mu(-), ton-m:	-15.62	-12.84	-10.11	-7.43	-4.81	-4.55	-7.55	-11.27	-15.04	-18.87	-22.74
Mu(+), ton-m:	13.62	10.23	6.78	4.55	4.55	4.55	4.55	4.55	5.13	7.48	9.78
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.20	6.20	6.20	6.21	6.27	6.32	6.38	6.44	6.44	6.44	6.44
Tu, ton-m:	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9-F3 15 #3@ 15 9-G

BEAM: 9(G-H) FLOOR: 1

Length: L = 7.20 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 6.95 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.70	1.39	2.09	2.78	3.48	4.17	4.87	5.56	6.26	6.95
Mu(-), ton-m:	-29.34	-17.56	-6.92	-6.92	-6.92	-6.92	-6.92	-6.92	-8.73	-21.29	-34.58
Mu(+), ton-m:	9.78	6.92	6.92	8.92	16.35	24.22	18.67	9.71	6.92	6.92	11.53
As(-), cm2:	12.56	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.91
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.66	5.65	5.46	5.27	5.08	4.89	5.58	5.76	5.93	6.11	6.12
Tu, ton-m:	0.44	0.44	0.44	0.44	0.44	0.44	0.47	0.47	0.47	0.47	0.47
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-G 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-H

BEAM: 9(H-I) FLOOR: 1

Length: L = 7.10 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 6.60 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.91	1.57	2.23	2.89	3.55	4.21	4.87	5.53	6.19	6.85
Mu(-), ton-m:	-32.47	-20.41	-8.98	-6.49	-6.49	-6.49	-6.49	-6.49	-7.90	-18.71	-30.34
Mu(+), ton-m:	10.82	6.49	6.49	7.75	15.54	22.85	16.00	8.64	6.49	6.49	10.11
As(-), cm2:	13.96	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.01
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.90	5.89	5.72	5.56	5.39	5.22	5.24	5.40	5.57	5.74	5.74
Tu, ton-m:	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-H 11 #3@ 15 10 #3@ 30 11 #3@ 15 9-I

BEAM: 9(I-J) FLOOR: 1

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-21.13	-13.84	-7.10	-4.23	-4.23	-4.23	-4.23	-4.23	-5.59	-12.30	-19.70
Mu(+), ton-m:	7.04	4.23	4.23	4.39	7.36	10.11	9.13	6.17	4.23	4.23	6.57
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	3.24	3.23	3.05	2.87	2.69	2.51	2.73	2.91	3.09	3.26	3.28
Tu, ton-m:	0.63	0.63	0.63	0.63	0.63	0.63	0.69	0.69	0.69	0.69	0.69
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-I 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-J

BEAM: 9(J-K) FLOOR: 1

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-19.16	-12.23	-5.85	-3.83	-3.83	-3.83	-3.83	-3.83	-5.74	-12.08	-18.97
Mu(+), ton-m:	6.39	3.83	3.83	5.31	7.89	9.91	7.93	5.39	3.83	3.83	6.32
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	3.01	2.99	2.82	2.64	2.46	2.28	2.45	2.62	2.80	2.98	2.99
Tu, ton-m:	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-J 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-K

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:45 a.m. 05/08/2010

BEAM: 9(K-L) FLOOR: 1

Length: L = 7.50 m Lu = 7.05 m a = 0.25 m c = 0.20 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.96	1.66	2.37	3.07	3.78	4.48	5.19	5.89	6.60	7.30
Mu(-), ton-m:	-18.46	-11.57	-5.24	-3.98	-3.98	-3.98	-3.98	-3.98	-6.18	-12.76	-19.90
Mu(+), ton-m:	6.15	3.98	3.98	5.74	8.31	10.18	7.88	5.06	3.98	3.98	6.63
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	3.01	2.99	2.82	2.64	2.46	2.30	2.54	2.72	2.90	3.09	3.10
Tu, ton-m:	0.59	0.59	0.59	0.59	0.59	0.60	0.61	0.61	0.61	0.61	0.61
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-K 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-L

BEAM: 9(L-M) FLOOR: 1

Length: L = 7.50 m Lu = 7.05 m a = 0.20 m c = 0.25 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.20	0.91	1.61	2.32	3.02	3.73	4.43	5.14	5.84	6.55	7.25
Mu(-), ton-m:	-18.94	-12.00	-5.62	-3.97	-3.97	-3.97	-3.97	-3.97	-6.08	-12.69	-19.87
Mu(+), ton-m:	6.31	3.97	3.97	5.55	8.12	10.15	8.05	5.25	3.97	3.97	6.62
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	3.03	3.02	2.84	2.65	2.47	2.29	2.55	2.73	2.91	3.09	3.10
Tu, ton-m:	0.61	0.61	0.61	0.61	0.61	0.61	0.59	0.59	0.59	0.59	0.59
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-L 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-M

BEAM: 9(M-N) FLOOR: 1

Length: L = 7.50 m Lu = 7.05 m a = 0.25 m c = 0.20 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.96	1.66	2.37	3.07	3.78	4.48	5.19	5.89	6.60	7.30
Mu(-), ton-m:	-19.26	-12.07	-5.45	-3.85	-3.85	-3.85	-3.85	-3.85	-5.50	-12.11	-19.27
Mu(+), ton-m:	6.42	3.85	3.85	5.75	8.71	10.95	8.42	5.47	3.85	3.85	6.42
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	3.11	3.09	2.91	2.73	2.55	2.38	2.55	2.73	2.91	3.09	3.11
Tu, ton-m:	0.57	0.57	0.57	0.57	0.57	0.58	0.59	0.59	0.59	0.59	0.59
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-M 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-N

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:45 a.m. 05/08/2010

BEAM: 9(N-O) FLOOR: 1

Length: L = 6.76 m Lu = 6.34 m a = 0.20 m c = 0.23 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.20	0.83	1.47	2.10	2.73	3.37	4.00	4.63	5.27	5.90	6.54
Mu(-), ton-m:	-7.34	-4.88	-3.66	-3.66	-3.66	-3.66	-3.66	-3.73	-8.11	-13.02	-18.31
Mu(+), ton-m:	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	6.10
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	1.68	1.68	1.52	1.36	1.20	1.24	2.33	2.47	2.61	2.74	2.74
Tu, ton-m:	0.55	0.55	0.55	0.55	0.55	0.55	0.51	0.51	0.51	0.51	0.51
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-N 11 #3@ 15 9 #3@ 30 11 #3@ 15 9-O

BEAM: 9(O-P) FLOOR: 1

Length: L = 8.69 m Lu = 8.46 m a = 0.23 m c = 0.00 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.23	1.07	1.92	2.76	3.61	4.46	5.30	6.15	7.00	7.84	8.69
Mu(-), ton-m:	-23.16	-11.35	-4.63	-4.63	-4.63	-4.63	-4.63	-4.63	-4.63	-4.63	-10.50
Mu(+), ton-m:	7.72	4.63	4.63	9.46	14.98	17.98	19.90	17.71	9.33	4.63	4.63
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	4.30	4.23	4.03	3.85	2.00	1.80	1.61	3.33	3.53	3.73	3.77
Tu, ton-m:	0.15	0.15	0.15	0.15	0.08	0.08	0.08	0.58	0.58	0.58	0.58
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-O 11 #3@ 15 17 #3@ 30 11 #3@ 15 9-P

BEAM: 8'(F-F1) FLOOR: 1

Length: L = 1.80 m Lu = 1.80 m a = 0.00 m c = 0.00 m Section: b = 40.0 cm h = 70.0 cm Sec: S40X70 Mat: RConcrete2

X, m:	0.00	0.18	0.36	0.54	0.72	0.90	1.08	1.26	1.44	1.62	1.80
Mu(-), ton-m:	-13.00	-10.59	-8.21	-5.87	-3.55	-2.69	-2.69	-4.22	-7.27	-10.35	-13.46
Mu(+), ton-m:	16.20	13.38	10.52	7.64	4.72	2.69	2.69	3.20	5.38	7.53	9.66
As(-), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
As(+), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
vu, Kg/cm2:	7.65	7.65	7.65	7.65	7.67	7.72	7.77	7.80	7.80	7.80	7.80
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F 12 #3@ 15 8'-F1

BEAM: 8'(F1-F2) FLOOR: 1

Length: L = 2.10 m a = 0.00 m Section: b = 40.0 cm Sec: S40X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-6.11	-5.48	-4.88	-4.32	-3.78	-3.27	-2.79	-2.34	-1.92	-1.53	-1.22
Mu(+), ton-m:	3.48	3.37	3.22	3.05	2.84	2.61	2.35	2.06	1.73	1.38	1.22
As(-), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
As(+), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
vu, Kg/cm2:	1.72	1.72	1.72	1.72	1.68	1.64	1.60	1.56	1.56	1.56	1.56
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F1 14 #3@ 15 8'-F2

BEAM: 8'(F2-F3) FLOOR: 1

Length: L = 2.10 m a = 0.00 m Section: b = 40.0 cm Sec: S40X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-1.31	-1.36	-1.81	-2.30	-2.81	-3.36	-3.93	-4.54	-5.17	-5.84	-6.53
Mu(+), ton-m:	1.31	1.31	1.52	1.95	2.35	2.72	3.06	3.37	3.65	3.90	4.12
As(-), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
As(+), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
vu, Kg/cm2:	1.53	1.53	1.53	1.53	1.57	1.61	1.65	1.69	1.69	1.69	1.69
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F2 14 #3@ 15 8'-F3

BEAM: 8'(F3-G) FLOOR: 1

Length: L = 2.20 m a = 0.00 m Section: b = 40.0 cm Sec: S40X70
Lu = 2.20 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.22	0.44	0.66	0.88	1.10	1.32	1.54	1.76	1.98	2.20
Mu(-), ton-m:	-14.27	-10.99	-7.76	-4.57	-2.85	-2.85	-3.75	-6.24	-8.78	-11.36	-13.99
Mu(+), ton-m:	10.25	8.03	5.77	3.46	2.85	2.85	4.72	7.72	10.68	13.60	16.46
As(-), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
As(+), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
vu, Kg/cm2:	6.62	6.62	6.62	6.62	6.56	6.49	6.43	6.37	6.37	6.37	6.37
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F3 15 #3@ 15 8'-G

BEAM: 8(B'-C) FLOOR: 1

Length: L = 3.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 3.35 m c = 0.45 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.34	0.67	1.01	1.34	1.68	2.01	2.35	2.68	3.02	3.35
Mu(-), ton-m:	-4.57	-2.70	-1.31	-1.06	-1.27	-1.62	-2.10	-2.70	-3.42	-4.29	-5.31
Mu(+), ton-m:	1.52	1.06	1.06	1.06	2.18	3.55	4.79	5.91	6.90	7.75	8.46
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	1.96	1.96	1.96	1.88	1.80	1.72	1.64	1.56	1.48	1.47	1.47
Tu, ton-m:	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	30.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8-B' 23 #3@ 15 8-C

BEAM: 8(C-D) FLOOR: 1

Length: L = 7.50 m a = 0.45 m Section: b = 50.0 cm Sec: S50X70
Lu = 6.60 m c = 0.45 m h = 70.0 cm Mat: RConcrete2

X, m:	0.45	1.11	1.77	2.43	3.09	3.75	4.41	5.07	5.73	6.39	7.05
Mu(-), ton-m:	-28.17	-16.72	-6.58	-6.58	-6.58	-6.58	-6.58	-6.58	-8.62	-20.50	-32.88
Mu(+), ton-m:	9.39	6.58	6.58	9.32	16.92	24.15	16.21	7.71	6.58	6.58	10.96
As(-), cm2:	12.04	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.14
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.70	5.69	5.53	5.38	5.22	5.06	5.55	5.71	5.87	6.02	6.03
Tu, ton-m:	0.50	0.50	0.50	0.50	0.50	0.50	0.44	0.44	0.44	0.44	0.44
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

8-C 11 #3@ 15 10 #3@ 30 11 #3@ 15 8-D

BEAM: 8(D-E) FLOOR: 1

Length: L = 7.50 m a = 0.45 m Section: b = 50.0 cm Sec: S50X70
Lu = 6.60 m c = 0.45 m h = 70.0 cm Mat: RConcrete2

X, m:	0.45	1.11	1.77	2.43	3.09	3.75	4.41	5.07	5.73	6.39	7.05
Mu(-), ton-m:	-31.13	-19.35	-8.07	-6.48	-6.48	-6.48	-6.48	-6.48	-8.75	-20.33	-32.41
Mu(+), ton-m:	10.38	6.48	6.48	7.84	15.59	22.88	15.44	7.40	6.48	6.48	10.80
As(-), cm2:	13.36	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.93
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.81	5.81	5.65	5.49	5.34	5.18	5.44	5.60	5.76	5.92	5.92
Tu, ton-m:	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

8-D 11 #3@ 15 10 #3@ 30 11 #3@ 15 8-E

BEAM: 8(E-F) FLOOR: 1

Length: L = 7.50 m a = 0.45 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.05 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.45	1.16	1.86	2.57	3.27	3.98	4.68	5.39	6.09	6.80	7.50
Mu(-), ton-m:	-35.62	-21.70	-8.36	-7.12	-7.12	-7.12	-7.12	-7.12	-7.12	-16.81	-28.24
Mu(+), ton-m:	11.87	7.12	7.12	10.05	19.83	23.62	15.67	8.39	7.12	7.12	9.41
As(-), cm2:	15.38	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.08
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.28	6.26	6.10	5.93	5.76	4.76	4.95	5.14	5.33	5.52	5.54
Tu, ton-m:	0.15	0.15	0.15	0.15	0.15	0.12	0.12	0.12	0.12	0.12	0.12
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

8-E 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-F

BEAM: 8(F-F1) FLOOR: 1

Length: L = 1.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 1.80 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.18	0.36	0.54	0.72	0.90	1.08	1.26	1.44	1.62	1.80
Mu(-), ton-m:	-24.81	-19.94	-15.11	-10.31	-5.56	-5.69	-9.33	-13.00	-16.71	-20.46	-24.25
Mu(+), ton-m:	11.94	8.49	5.00	4.96	4.96	4.96	4.96	8.49	13.10	17.66	22.19
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	9.84	9.84	9.84	9.84	9.82	9.77	9.72	9.70	9.70	9.70	9.70
Tu, ton-m:	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8-F 12 #3@ 15 8-F1

BEAM: 8(F1-F2) FLOOR: 1

Length: L = 2.10 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-5.06	-4.14	-3.26	-2.42	-1.62	-1.01	-1.01	-1.01	-1.17	-1.79	-2.44
Mu(+), ton-m:	2.41	2.09	1.73	1.34	1.01	1.01	1.01	1.01	1.23	1.85	2.43
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	1.47	1.47	1.47	1.47	1.43	1.39	1.35	1.31	1.31	1.31	1.31
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8-F1 14 #3@ 15 8-F2

BEAM: 8(F2-F3) FLOOR: 1

Length: L = 2.10 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-2.97	-2.22	-1.51	-0.90	-0.90	-0.90	-1.45	-2.15	-2.90	-3.68	-4.50
Mu(+), ton-m:	2.03	1.54	1.02	0.90	0.90	0.90	0.98	1.50	2.00	2.45	2.87
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	1.12	1.12	1.12	1.12	1.08	1.12	1.16	1.20	1.20	1.20	1.20
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8-F2 14 #3@ 15 8-F3

BEAM: 8(F3-G) FLOOR: 1

Length: L = 2.20 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.20 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.22	0.44	0.66	0.88	1.10	1.32	1.54	1.76	1.98	2.20
Mu(-), ton-m:	-23.55	-19.65	-15.79	-12.00	-8.25	-5.03	-5.65	-10.45	-15.30	-20.21	-25.17
Mu(+), ton-m:	22.02	17.55	13.01	8.43	5.03	5.03	5.03	5.03	6.20	9.67	13.10
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.72
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.89	7.89	7.89	7.90	7.95	8.01	8.07	8.12	8.13	8.13	8.13
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8-F3 15 #3@ 15 8-G

BEAM: 8(G-H) FLOOR: 1

Length: L = 7.20 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 6.95 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.70	1.39	2.09	2.78	3.48	4.17	4.87	5.56	6.26	6.95
Mu(-), ton-m:	-28.30	-16.76	-6.99	-6.99	-6.99	-6.99	-6.99	-6.99	-9.01	-21.66	-34.94
Mu(+), ton-m:	9.43	6.99	6.99	8.94	16.17	24.04	18.48	9.50	6.99	6.99	11.65
As(-), cm2:	12.10	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	15.07
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.59	5.57	5.38	5.20	5.01	4.82	5.58	5.76	5.93	6.11	6.12
Tu, ton-m:	0.55	0.55	0.55	0.55	0.55	0.55	0.49	0.49	0.49	0.49	0.49
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

8-G 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-H

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:46 a.m. 05/08/2010

BEAM: 8(H-I) FLOOR: 1

Length: L = 7.10 m Lu = 6.60 m | a = 0.25 m c = 0.25 m | Section: b = 50.0 cm h = 70.0 cm | Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.91	1.57	2.23	2.89	3.55	4.21	4.87	5.53	6.19	6.85
Mu(-), ton-m:	-31.89	-20.05	-8.82	-6.38	-6.38	-6.38	-6.38	-6.38	-8.73	-19.90	-31.70
Mu(+), ton-m:	10.63	6.38	6.38	7.73	15.29	22.41	15.36	7.85	6.38	6.38	10.57
As(-), cm2:	13.70	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.61
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.81	5.80	5.64	5.47	5.30	5.14	5.29	5.45	5.62	5.79	5.79
Tu, ton-m:	0.47	0.47	0.47	0.47	0.47	0.47	0.45	0.45	0.45	0.45	0.45
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

8-H 11 #3@ 15 10 #3@ 30 11 #3@ 15 8-I

BEAM: 8(I-J) FLOOR: 1

Length: L = 7.50 m Lu = 7.00 m | a = 0.25 m c = 0.25 m | Section: b = 50.0 cm h = 70.0 cm | Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-33.33	-20.76	-9.24	-7.21	-7.21	-7.21	-7.21	-7.21	-9.18	-22.10	-36.05
Mu(+), ton-m:	11.11	7.21	7.21	7.73	15.61	23.16	18.75	9.50	7.21	7.21	12.02
As(-), cm2:	14.34	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	15.57
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.94	5.92	5.71	5.49	5.28	5.06	5.89	6.06	6.24	6.42	6.43
Tu, ton-m:	0.30	0.30	0.30	0.30	0.30	0.30	0.39	0.39	0.39	0.39	0.39
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

8-I 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-J

BEAM: 8(J-K) FLOOR: 1

Length: L = 7.50 m Lu = 7.00 m | a = 0.25 m c = 0.25 m | Section: b = 50.0 cm h = 70.0 cm | Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-36.15	-22.37	-9.50	-7.27	-7.27	-7.27	-7.27	-7.27	-9.61	-22.53	-36.35
Mu(+), ton-m:	12.05	7.27	7.27	8.89	18.31	27.17	18.28	8.82	7.27	7.27	12.12
As(-), cm2:	15.62	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	15.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	11.60	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.44	6.42	6.24	6.07	5.89	5.71	5.90	6.08	6.26	6.43	6.45
Tu, ton-m:	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

8-J 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-K

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:46 a.m. 05/08/2010

BEAM: 8(K-L) FLOOR: 1

Length: L = 7.50 m Lu = 7.00 m | a = 0.25 m c = 0.25 m | Section: b = 50.0 cm h = 70.0 cm | Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-35.85	-22.19	-9.44	-7.18	-7.18	-7.18	-7.18	-7.18	-9.45	-22.21	-35.88
Mu(+), ton-m:	11.95	7.18	7.18	8.75	18.08	26.86	18.07	8.73	7.18	7.18	11.96
As(-), cm2:	15.48	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	15.49
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	11.46	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.37	6.36	6.18	6.00	5.82	5.65	5.83	6.00	6.18	6.36	6.37
Tu, ton-m:	0.14	0.14	0.14	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.13
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

8-K 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-L

BEAM: 8(L-M) FLOOR: 1

Length: L = 7.50 m Lu = 7.00 m | a = 0.25 m c = 0.25 m | Section: b = 50.0 cm h = 70.0 cm | Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-34.74	-21.31	-8.87	-7.44	-7.44	-7.44	-7.44	-7.44	-10.13	-23.27	-37.20
Mu(+), ton-m:	11.58	7.44	7.44	9.31	18.37	26.86	17.85	8.29	7.44	7.44	12.40
As(-), cm2:	14.98	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	16.09
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	11.47	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.34	6.32	6.14	5.97	5.79	5.61	5.95	6.13	6.31	6.49	6.50
Tu, ton-m:	0.14	0.14	0.14	0.14	0.14	0.14	0.12	0.12	0.12	0.12	0.12
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

8-L 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-M

BEAM: 8(M-N) FLOOR: 1

Length: L = 7.50 m Lu = 7.00 m | a = 0.25 m c = 0.25 m | Section: b = 50.0 cm h = 70.0 cm | Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-34.71	-21.45	-9.09	-7.02	-7.02	-7.02	-7.02	-7.02	-9.25	-21.74	-35.10
Mu(+), ton-m:	11.57	7.02	7.02	8.62	17.65	26.13	17.44	8.29	7.02	7.02	11.70
As(-), cm2:	14.97	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	15.14
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	11.14	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.20	6.18	6.01	5.83	5.65	5.47	5.69	5.86	6.04	6.22	6.23
Tu, ton-m:	0.20	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

8-M 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-N

BEAM: 8(N-O) FLOOR: 1

Length: L = 6.76 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 6.29 m c = 0.23 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.88	1.51	2.14	2.76	3.39	4.02	4.65	5.28	5.91	6.54
Mu(-), ton-m:	-25.08	-15.84	-9.35	-9.35	-9.35	-9.35	-9.35	-9.35	-14.94	-30.59	-46.74
Mu(+), ton-m:	9.35	9.35	9.35	9.35	12.91	18.82	14.94	9.35	9.35	9.35	15.58
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.12	20.48
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.10	6.10	5.94	5.79	5.63	5.47	8.29	8.43	8.57	8.70	8.70
Tu, ton-m:	0.50	0.50	0.50	0.50	0.50	0.50	0.26	0.26	0.26	0.26	0.26
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

8-N 11 #3@ 15 9 #3@ 30 11 #3@ 15 8-O

BEAM: 8(O-P) FLOOR: 1

Length: L = 8.69 m a = 0.23 m Section: b = 50.0 cm Sec: S50X70
Lu = 8.46 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.23	1.07	1.92	2.76	3.61	4.46	5.30	6.15	7.00	7.84	8.69
Mu(-), ton-m:	-56.48	-28.18	-11.30	-11.30	-11.30	-11.30	-11.30	-11.30	-11.30	-11.30	-21.29
Mu(+), ton-m:	18.83	11.30	11.30	23.65	33.15	36.13	37.73	32.20	15.47	11.30	11.30
As(-), cm2:	25.08	12.05	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	14.27	15.60	16.33	13.84	10.71	10.71	10.71
vu, Kg/cm2:	10.40	10.33	10.12	9.94	3.51	3.31	3.12	7.18	7.38	7.57	7.62
Tu, ton-m:	0.13	0.13	0.13	0.13	0.63	0.63	0.63	0.33	0.33	0.33	0.33
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

8-O 11 #3@ 15 17 #3@ 30 11 #3@ 15 8-P

BEAM: 7(D-E) FLOOR: 1

Length: L = 7.50 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.25 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.73	1.45	2.18	2.90	3.63	4.35	5.08	5.80	6.53	7.25
Mu(-), ton-m:	-35.83	-25.27	-14.71	-4.15	-0.41	0.00	0.00	0.00	0.00	0.00	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	6.83	16.96	18.12	17.46	16.84	16.23	15.61
As(-), cm2:	15.47	10.76	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	4.55	4.55	4.55	4.55	4.55	4.55	0.27	0.27	0.27	0.27	0.27
Tu, ton-m:	0.85	0.85	0.85	0.85	0.85	0.85	0.83	0.83	0.83	0.83	0.83
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

7-D 25 #3@ 30 7-E

BEAM: 7(E-F) FLOOR: 1

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.25 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.98	1.70	2.43	3.15	3.88	4.60	5.33	6.05	6.78	7.50
Mu(-), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	-0.71	-6.44	-17.44	-28.43	-39.43
Mu(+), ton-m:	15.55	15.90	16.25	16.60	16.95	15.38	5.27	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.16	17.10
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.16	0.16	0.16	0.16	0.16	3.21	4.74	4.74	4.74	4.74	4.74
Tu, ton-m:	0.90	0.90	0.90	0.90	0.90	0.82	0.78	0.78	0.78	0.78	0.78
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

7-E 25 #3@ 30 7-F

BEAM: 7(I-J) FLOOR: 1

Length: L = 7.50 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.25 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.73	1.45	2.18	2.90	3.63	4.35	5.08	5.80	6.53	7.25
Mu(-), ton-m:	-27.53	-20.14	-12.74	-5.34	-0.61	0.00	0.00	0.00	0.00	-1.90	-5.45
Mu(+), ton-m:	0.00	0.00	0.00	0.00	2.68	9.46	9.87	6.51	2.54	0.43	0.00
As(-), cm2:	11.76	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	3.19	3.19	3.19	3.19	3.19	3.19	1.71	1.71	1.71	1.71	1.71
Tu, ton-m:	0.50	0.50	0.50	0.50	0.50	0.50	0.84	0.84	0.84	0.84	0.84
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

7-I 25 #3@ 30 7-J

BEAM: 7(J-K) FLOOR: 1

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-5.64	-1.88	0.00	0.00	0.00	0.00	0.00	0.00	-2.58	-7.91	-13.87
Mu(+), ton-m:	0.00	0.56	3.03	7.33	11.63	15.93	9.98	4.04	0.64	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	1.93	1.93	1.93	1.93	1.93	1.93	2.66	2.66	2.66	2.66	2.66
Tu, ton-m:	0.31	0.31	0.31	0.31	0.31	0.31	0.51	0.51	0.51	0.51	0.51
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

7-J 24 #3@ 30 7-K

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:46 a.m. 05/08/2010

BEAM: 7(K-L) FLOOR: 1

Length: L = 7.50 m Lu = 7.00 m a = 0.25 m c = 0.25 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-14.03	-8.68	-3.58	0.00	0.00	0.00	0.00	0.00	-2.88	-7.60	-12.68
Mu(+), ton-m:	0.00	0.00	0.26	2.04	7.38	12.72	7.65	2.59	0.37	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.39	2.39	2.39	2.39	2.39	2.39	2.27	2.27	2.27	2.27	2.27
Tu, ton-m:	0.55	0.55	0.55	0.55	0.55	0.55	0.50	0.50	0.50	0.50	0.50
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

7-K 24 #3@ 30 7-L

BEAM: 7(L-M) FLOOR: 1

Length: L = 7.50 m Lu = 7.00 m a = 0.25 m c = 0.25 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-12.58	-7.24	-2.44	0.00	0.00	0.00	0.00	0.00	-1.78	-6.21	-11.29
Mu(+), ton-m:	0.00	0.00	0.54	3.46	8.78	14.10	9.04	3.97	0.65	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.38	2.38	2.38	2.38	2.38	2.38	2.27	2.27	2.27	2.27	2.27
Tu, ton-m:	0.51	0.51	0.51	0.51	0.51	0.51	0.41	0.41	0.41	0.41	0.41
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

7-L 24 #3@ 30 7-M

BEAM: 7(M-N) FLOOR: 1

Length: L = 7.50 m Lu = 7.00 m a = 0.25 m c = 0.25 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-11.69	-8.13	-4.56	-1.31	0.00	0.00	-1.52	-8.34	-15.57	-22.80	-30.02
Mu(+), ton-m:	0.00	0.00	0.00	0.31	2.57	6.12	0.41	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.87
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	1.59	1.59	1.59	1.59	1.59	1.59	3.23	3.23	3.23	3.23	3.23
Tu, ton-m:	0.52	0.52	0.52	0.52	0.52	0.52	0.94	0.94	0.94	0.94	0.94
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

7-M 24 #3@ 30 7-N

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:46 a.m. 05/08/2010

BEAM: 7(N-O) FLOOR: 1

Length: L = 6.76 m Lu = 6.26 m a = 0.25 m c = 0.25 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.88	1.50	2.13	2.75	3.38	4.01	4.63	5.26	5.88	6.51
Mu(-), ton-m:	-30.25	-22.38	-14.50	-6.78	-0.38	0.00	0.00	0.00	0.00	0.00	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.15	1.64	9.14	13.79	15.71	17.40	19.08	20.77
As(-), cm2:	12.97	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	3.93	3.93	3.93	3.93	3.93	3.93	0.84	0.84	0.84	0.84	0.84
Tu, ton-m:	0.26	0.26	0.26	0.26	0.26	0.26	0.73	0.73	0.73	0.73	0.73
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

7-N 21 #3@ 30 7-O

BEAM: 7(O-P) FLOOR: 1

Length: L = 8.69 m Lu = 8.44 m a = 0.25 m c = 0.00 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.25	1.09	1.94	2.78	3.63	4.47	5.31	6.16	7.00	7.85	8.69
Mu(-), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.20	-3.20	-18.17	-33.15
Mu(+), ton-m:	22.41	25.73	29.04	31.35	29.31	24.92	20.15	11.99	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.26
As(+), cm2:	10.71	10.97	12.43	13.46	12.55	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	1.23	1.23	1.23	1.23	1.62	1.62	1.62	5.54	5.54	5.54	5.54
Tu, ton-m:	1.06	1.06	1.06	1.06	1.27	1.27	1.27	1.14	1.14	1.14	1.14
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

7-O 28 #3@ 30 7-P

BEAM: 10(I-J) FLOOR: 2

Length: L = 7.50 m Lu = 7.03 m a = 0.23 m c = 0.25 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.23	0.93	1.63	2.33	3.04	3.74	4.44	5.14	5.84	6.55	7.25
Mu(-), ton-m:	-25.02	-15.74	-7.31	-5.49	-5.49	-5.49	-5.49	-5.49	-6.70	-16.54	-27.47
Mu(+), ton-m:	8.34	5.49	8.82	12.32	15.10	17.12	13.25	8.79	5.49	5.49	9.16
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.74
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	4.00	3.97	3.73	3.50	3.27	3.04	3.83	4.06	4.37	4.70	4.73
Tu, ton-m:	0.23	0.23	0.23	0.23	0.23	0.23	0.07	0.07	0.07	0.07	0.07
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

10-I 11 #3@ 15 12 #3@ 30 11 #3@ 15 10-J

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:46 a.m. 05/08/2010

BEAM: 10(J-K) FLOOR: 2

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-25.54	-16.00	-7.17	-5.11	-5.11	-5.11	-5.11	-5.11	-7.22	-15.84	-25.18
Mu(+), ton-m:	8.51	5.11	5.11	6.20	10.65	14.96	11.49	7.30	5.11	5.11	8.39
As(-), cm2:	10.88	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.73
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	4.21	4.19	3.96	3.74	3.51	3.28	3.44	3.67	3.90	4.12	4.14
Tu, ton-m:	0.06	0.06	0.06	0.06	0.06	0.06	0.08	0.08	0.08	0.08	0.08
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

10-J 11 #3@ 15 12 #3@ 30 11 #3@ 15 10-K

BEAM: 10(K-L) FLOOR: 2

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-26.35	-16.70	-7.78	-5.27	-5.27	-5.27	-5.27	-5.27	-7.35	-16.16	-25.67
Mu(+), ton-m:	8.78	5.27	5.27	7.09	11.26	14.74	11.34	7.30	5.27	5.27	8.56
As(-), cm2:	11.24	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.94
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	4.24	4.22	3.99	3.76	3.53	3.30	3.49	3.72	3.95	4.18	4.19
Tu, ton-m:	0.11	0.11	0.11	0.11	0.11	0.11	0.09	0.09	0.09	0.09	0.09
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

10-K 11 #3@ 15 12 #3@ 30 11 #3@ 15 10-L

BEAM: 10(L-M) FLOOR: 2

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-25.51	-16.13	-7.47	-5.14	-5.14	-5.14	-5.14	-5.14	-7.43	-16.22	-25.72
Mu(+), ton-m:	8.50	5.14	5.14	7.08	11.20	14.58	10.65	6.38	5.14	5.14	8.57
As(-), cm2:	10.87	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.96
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	4.15	4.13	3.90	3.67	3.44	3.21	3.49	3.72	3.95	4.18	4.19
Tu, ton-m:	0.12	0.12	0.12	0.12	0.12	0.12	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

10-L 11 #3@ 15 12 #3@ 30 11 #3@ 15 10-M

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:46 a.m. 05/08/2010

BEAM: 10(M-N) FLOOR: 2

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-29.07	-18.24	-8.12	-5.81	-5.81	-5.81	-5.81	-5.81	-5.81	-13.66	-22.73
Mu(+), ton-m:	9.69	5.81	5.81	7.21	11.82	17.89	15.95	13.29	9.90	5.81	7.58
As(-), cm2:	12.44	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	4.70	4.68	4.35	4.09	3.86	3.63	3.27	3.50	3.73	3.96	3.98
Tu, ton-m:	0.09	0.09	0.09	0.09	0.09	0.09	0.17	0.17	0.17	0.17	0.17
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

10-M 11 #3@ 15 12 #3@ 30 11 #3@ 15 10-N

BEAM: 9'(E'-F) FLOOR: 2

Length: L = 2.55 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.25	0.51	0.76	1.02	1.28	1.53	1.78	2.04	2.29	2.55
Mu(-), ton-m:	0.00	-0.75	-1.58	-2.44	-3.34	-4.27	-5.24	-6.25	-7.30	-8.38	-9.50
Mu(+), ton-m:	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	1.88	1.97	2.06	2.16	2.25	2.34	2.43	2.52	2.56	2.56	2.56
Tu, ton-m:	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9'-E' 9 #3@ 30 9'-F

BEAM: 9'(F-F1) FLOOR: 2

Length: L = 1.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 1.80 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.18	0.36	0.54	0.72	0.90	1.08	1.26	1.44	1.62	1.80
Mu(-), ton-m:	-31.28	-25.46	-19.65	-13.85	-8.07	-6.26	-6.26	-11.80	-17.91	-24.04	-30.19
Mu(+), ton-m:	30.63	24.61	18.58	12.53	6.47	6.26	6.26	9.19	14.92	20.63	26.33
As(-), cm2:	14.01	11.22	8.52	5.92	5.36	5.36	5.36	5.36	7.73	10.55	13.48
As(+), cm2:	13.70	10.82	8.03	5.36	5.36	5.36	5.36	5.36	6.39	8.97	11.63
vu, Kg/cm2:	23.83	23.83	23.83	23.83	23.85	23.88	23.92	23.93	23.93	23.93	23.93
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	12.50	12.50	12.50	12.50	12.48	12.46	12.43	12.42	12.42	12.42	12.42

DESIGN

9'-F 14 #3@ 12.5 9'-F1

BEAM: 9'(F1-F2) FLOOR: 2

Length: L = 2.10 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-6.89	-5.52	-4.17	-2.83	-1.52	-1.38	-1.38	-2.50	-3.95	-5.42	-6.90
Mu(+), ton-m:	7.13	5.81	4.47	3.11	1.74	1.38	1.38	2.31	3.55	4.78	5.98
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	4.69	4.69	4.69	4.69	4.73	4.77	4.81	4.85	4.85	4.85	4.85
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F1 14 #3@ 15 9'-F2

BEAM: 9'(F2-F3) FLOOR: 2

Length: L = 2.10 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-6.48	-5.08	-3.71	-2.35	-1.52	-1.52	-1.67	-3.12	-4.59	-6.08	-7.59
Mu(+), ton-m:	6.65	5.31	3.95	2.57	1.52	1.52	1.60	2.88	4.14	5.39	6.61
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	4.76	4.76	4.76	4.76	4.79	4.84	4.88	4.92	4.92	4.92	4.92
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F2 14 #3@ 15 9'-F3

BEAM: 9'(F3-G) FLOOR: 2

Length: L = 2.20 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.20 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.22	0.44	0.66	0.88	1.10	1.32	1.54	1.76	1.98	2.20
Mu(-), ton-m:	-31.55	-25.04	-18.56	-12.09	-6.31	-6.31	-6.31	-10.56	-15.30	-20.06	-24.84
Mu(+), ton-m:	22.07	17.47	12.85	8.21	6.31	6.31	7.18	13.57	19.93	26.28	32.60
As(-), cm2:	14.15	11.02	8.03	5.36	5.36	5.36	5.36	5.36	6.56	8.71	10.93
As(+), cm2:	9.64	7.53	5.48	5.36	5.36	5.36	5.36	5.79	8.65	11.60	14.66
vu, Kg/cm2:	22.18	22.18	22.18	22.17	22.13	22.09	22.04	22.00	22.00	22.00	22.00
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	13.91	13.91	13.91	13.91	13.95	13.99	14.04	14.08	14.08	14.08	14.08

DESIGN

9'-F3 18 #3@ 12.5 9'-G

BEAM: 9(E'-F) FLOOR: 2

Length: L = 2.55 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.55 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.25	0.51	0.76	1.02	1.28	1.53	1.78	2.04	2.29	2.55
Mu(-), ton-m:	-0.04	-1.14	-2.31	-3.55	-4.84	-6.21	-7.63	-9.12	-10.68	-12.30	-13.99
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	1.31	1.39	1.47	1.55	1.63	1.71	1.79	1.87	1.91	1.91	1.91
Tu, ton-m:	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-E' 9 #3@ 30 9-F

BEAM: 9(F-F1) FLOOR: 2

Length: L = 1.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 1.80 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.18	0.36	0.54	0.72	0.90	1.08	1.26	1.44	1.62	1.80
Mu(-), ton-m:	-40.83	-34.02	-27.25	-20.51	-13.81	-8.17	-8.17	-8.77	-15.62	-22.51	-29.43
Mu(+), ton-m:	38.13	31.55	24.92	18.26	11.56	8.17	8.17	8.17	12.60	19.11	25.59
As(-), cm2:	17.75	14.65	11.64	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.60
As(+), cm2:	16.52	13.55	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.90
vu, Kg/cm2:	13.04	13.04	13.04	13.04	13.06	13.11	13.16	13.18	13.18	13.18	13.18
Tu, ton-m:	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9-F 12 #3@ 15 9-F1

BEAM: 9(F1-F2) FLOOR: 2

Length: L = 2.10 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-13.14	-11.95	-10.79	-9.66	-8.58	-7.53	-6.52	-5.55	-4.61	-3.71	-2.85
Mu(+), ton-m:	10.59	9.96	9.29	8.58	7.84	7.06	6.24	5.39	4.50	3.57	2.63
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.81	2.81	2.81	2.81	2.77	2.73	2.69	2.65	2.65	2.65	2.65
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9-F1 14 #3@ 15 9-F2

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:46 a.m. 05/08/2010

BEAM: 9(F2-F3) FLOOR: 2

Length: L = 2.10 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-2.92	-3.16	-4.28	-5.44	-6.63	-7.87	-9.14	-10.44	-11.79	-13.17	-14.59
Mu(+), ton-m:	2.92	3.00	3.95	4.85	5.73	6.56	7.36	8.12	8.84	9.53	10.18
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.91	2.91	2.91	2.91	2.95	2.99	3.03	3.07	3.07	3.07	3.07
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9-F2 14 #3@ 15 9-F3

BEAM: 9(F3-G) FLOOR: 2

Length: L = 2.20 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.20 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.22	0.44	0.66	0.88	1.10	1.32	1.54	1.76	1.98	2.20
Mu(-), ton-m:	-31.41	-25.07	-18.79	-12.56	-7.38	-7.38	-11.63	-17.87	-24.16	-30.51	-36.91
Mu(+), ton-m:	24.68	18.76	12.79	7.38	7.38	7.38	7.38	11.84	17.80	23.71	29.57
As(-), cm2:	13.49	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.08	15.96
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.67
vu, Kg/cm2:	9.81	9.81	9.81	9.80	9.75	9.75	9.81	9.87	9.87	9.87	9.87
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9-F3 15 #3@ 15 9-G

BEAM: 9(G-H) FLOOR: 2

Length: L = 7.20 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 6.95 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.70	1.39	2.09	2.78	3.48	4.17	4.87	5.56	6.26	6.95
Mu(-), ton-m:	-45.02	-29.13	-13.81	-9.68	-9.68	-9.68	-9.68	-9.68	-15.38	-31.61	-48.39
Mu(+), ton-m:	15.01	9.68	9.68	12.36	19.58	29.40	24.94	16.80	9.68	9.68	16.13
As(-), cm2:	19.68	12.47	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.58	21.25
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.59	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.27	7.26	7.07	6.88	6.69	6.50	6.98	7.16	7.33	7.51	7.52
Tu, ton-m:	0.81	0.81	0.81	0.81	0.81	0.81	0.96	0.96	0.96	0.96	0.96
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-G 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-H

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:46 a.m. 05/08/2010

BEAM: 9(H-I) FLOOR: 2

Length: L = 7.10 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 6.60 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.91	1.57	2.23	2.89	3.55	4.21	4.87	5.53	6.19	6.85
Mu(-), ton-m:	-49.10	-33.01	-17.41	-9.82	-9.82	-9.82	-9.82	-9.82	-16.37	-31.63	-47.39
Mu(+), ton-m:	16.37	9.82	9.82	13.54	20.23	26.46	20.54	14.18	9.82	9.82	15.80
As(-), cm2:	21.58	14.20	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.58	20.78
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	11.29	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.59	7.58	7.42	7.25	7.08	6.92	6.96	7.13	7.30	7.46	7.47
Tu, ton-m:	0.96	0.96	0.96	0.96	0.96	0.96	0.91	0.91	0.91	0.91	0.91
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-H 11 #3@ 15 10 #3@ 30 11 #3@ 15 9-I

BEAM: 9(I-J) FLOOR: 2

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-42.56	-29.14	-16.27	-8.51	-8.51	-8.51	-8.51	-8.51	-14.50	-28.10	-42.34
Mu(+), ton-m:	14.19	8.51	8.51	11.04	15.34	20.03	18.61	13.80	8.51	8.51	14.11
As(-), cm2:	18.54	12.47	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.01	18.44
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.92	5.90	5.73	5.55	5.37	5.19	5.64	5.82	6.00	6.23	6.25
Tu, ton-m:	0.24	0.24	0.24	0.24	0.24	0.24	0.27	0.27	0.27	0.27	0.27
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-I 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-J

BEAM: 9(J-K) FLOOR: 2

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-42.96	-29.06	-15.71	-8.59	-8.59	-8.59	-8.59	-8.59	-14.84	-27.90	-41.51
Mu(+), ton-m:	14.32	8.59	8.59	12.16	16.84	20.99	17.14	12.76	8.59	8.59	13.84
As(-), cm2:	18.73	12.44	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.92	18.06
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.10	6.08	5.89	5.71	5.53	5.35	5.43	5.61	5.79	5.97	5.98
Tu, ton-m:	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.25	0.25	0.25	0.25
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-J 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-K

BEAM: 9(K-L) FLOOR: 2

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.05 m c = 0.20 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.96	1.66	2.37	3.07	3.78	4.48	5.19	5.89	6.60	7.30
Mu(-), ton-m:	-41.52	-27.77	-14.59	-8.67	-8.67	-8.67	-8.67	-8.67	-15.94	-29.36	-43.33
Mu(+), ton-m:	13.84	8.67	8.67	12.82	17.38	21.14	16.82	12.02	8.67	8.67	14.44
As(-), cm2:	18.06	11.87	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.57	18.90
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.01	6.00	5.82	5.64	5.46	5.30	5.54	5.72	5.90	6.08	6.10
Tu, ton-m:	0.25	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.26
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-K 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-L

BEAM: 9(L-M) FLOOR: 2

Length: L = 7.50 m a = 0.20 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.05 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.20	0.91	1.61	2.32	3.02	3.73	4.43	5.14	5.84	6.55	7.25
Mu(-), ton-m:	-41.87	-28.13	-14.94	-8.94	-8.94	-8.94	-8.94	-8.94	-16.45	-30.28	-44.68
Mu(+), ton-m:	13.96	8.94	8.94	13.21	17.45	21.41	17.37	12.49	8.94	8.94	14.89
As(-), cm2:	18.22	12.02	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.98	19.52
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.04	6.02	5.84	5.66	5.48	5.30	5.70	5.87	6.05	6.26	6.28
Tu, ton-m:	0.24	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.25
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-L 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-M

BEAM: 9(M-N) FLOOR: 2

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.05 m c = 0.20 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.96	1.66	2.37	3.07	3.78	4.48	5.19	5.89	6.60	7.30
Mu(-), ton-m:	-45.87	-30.93	-16.55	-9.17	-9.17	-9.17	-9.17	-9.17	-16.21	-29.80	-43.96
Mu(+), ton-m:	15.29	9.17	9.17	12.97	17.71	22.60	19.34	15.47	11.04	9.17	14.65
As(-), cm2:	20.07	13.27	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.77	19.19
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.52	6.50	6.24	6.01	5.84	5.63	5.58	5.76	5.94	6.15	6.17
Tu, ton-m:	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-M 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-N

BEAM: 8'(E'-F) FLOOR: 2

Length: L = 2.55 m a = 0.00 m Section: b = 40.0 cm Sec: S40X70
Lu = 2.55 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.25	0.51	0.76	1.02	1.28	1.53	1.78	2.04	2.29	2.55
Mu(-), ton-m:	-0.08	-1.01	-1.99	-3.02	-4.11	-5.25	-6.45	-7.70	-9.00	-10.35	-11.76
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
As(+), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
vu, Kg/cm2:	1.38	1.46	1.54	1.63	1.71	1.79	1.87	1.95	1.99	1.99	1.99
Tu, ton-m:	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8'-E' 9 #3@ 30 8'-F

BEAM: 8'(F-F1) FLOOR: 2

Length: L = 1.80 m a = 0.00 m Section: b = 40.0 cm Sec: S40X70
Lu = 1.80 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.18	0.36	0.54	0.72	0.90	1.08	1.26	1.44	1.62	1.80
Mu(-), ton-m:	-32.03	-26.78	-21.56	-16.37	-11.22	-6.41	-6.41	-8.33	-14.15	-19.99	-25.87
Mu(+), ton-m:	31.46	25.87	20.25	14.60	8.91	6.41	6.41	6.41	9.09	14.08	19.04
As(-), cm2:	13.91	11.53	9.20	8.57	8.57	8.57	8.57	8.57	8.57	8.57	11.12
As(+), cm2:	13.65	11.12	8.63	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
vu, Kg/cm2:	14.26	14.26	14.26	14.26	14.28	14.33	14.38	14.41	14.41	14.41	14.41
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F 12 #3@ 15 8'-F1

BEAM: 8'(F1-F2) FLOOR: 2

Length: L = 2.10 m a = 0.00 m Section: b = 40.0 cm Sec: S40X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-10.17	-9.27	-8.39	-7.54	-6.72	-5.94	-5.18	-4.45	-3.75	-3.08	-2.44
Mu(+), ton-m:	5.83	5.66	5.45	5.22	4.95	4.66	4.34	3.99	3.60	3.19	2.75
As(-), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
As(+), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
vu, Kg/cm2:	3.08	3.08	3.08	3.08	3.04	2.99	2.95	2.91	2.91	2.91	2.91
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F1 14 #3@ 15 8'-F2

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:46 a.m. 05/08/2010

BEAM: 8'(F2-F3) FLOOR: 2

Length: L = 2.10 m a = 0.00 m Section: b = 40.0 cm Sec: S40X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-2.21	-2.96	-3.74	-4.55	-5.39	-6.25	-7.15	-8.08	-9.04	-10.02	-11.04
Mu(+), ton-m:	2.21	2.46	3.06	3.63	4.17	4.68	5.16	5.61	6.03	6.42	6.78
As(-), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
As(+), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
vu, Kg/cm2:	2.85	2.85	2.85	2.85	2.89	2.93	2.97	3.01	3.01	3.01	3.01
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F2 14 #3@ 15 8'-F3

BEAM: 8'(F3-G) FLOOR: 2

Length: L = 2.20 m a = 0.00 m Section: b = 40.0 cm Sec: S40X70
Lu = 2.20 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.22	0.44	0.66	0.88	1.10	1.32	1.54	1.76	1.98	2.20
Mu(-), ton-m:	-28.02	-21.50	-15.02	-8.59	-5.60	-5.60	-7.80	-12.51	-17.26	-22.06	-26.90
Mu(+), ton-m:	19.48	15.05	10.57	6.04	5.60	5.60	10.42	16.67	22.87	29.03	35.14
As(-), cm2:	12.08	9.18	8.57	8.57	8.57	8.57	8.57	8.57	8.57	9.43	11.58
As(+), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	9.79	12.54	15.34
vu, Kg/cm2:	13.70	13.70	13.70	13.70	13.64	13.58	13.52	13.46	13.45	13.45	13.45
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F3 15 #3@ 15 8'-G

BEAM: 8(E'-F) FLOOR: 2

Length: L = 2.55 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.55 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.25	0.51	0.76	1.02	1.28	1.53	1.78	2.04	2.29	2.55
Mu(-), ton-m:	0.00	-2.07	-4.28	-6.56	-8.91	-11.32	-13.79	-16.33	-18.93	-21.59	-24.32
Mu(+), ton-m:	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.60	2.68	2.75	2.83	2.91	2.99	3.07	3.15	3.19	3.19	3.19
Tu, ton-m:	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-E' 9 #3@ 30 8-F

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:46 a.m. 05/08/2010

BEAM: 8(F-F1) FLOOR: 2

Length: L = 1.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 1.80 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.18	0.36	0.54	0.72	0.90	1.08	1.26	1.44	1.62	1.80
Mu(-), ton-m:	-49.92	-40.71	-31.54	-22.41	-13.31	-10.48	-13.29	-23.01	-32.77	-42.57	-52.41
Mu(+), ton-m:	44.25	34.75	25.22	15.65	10.48	10.48	10.48	13.75	22.70	31.60	40.47
As(-), cm2:	21.97	17.69	13.54	10.71	10.71	10.71	10.71	10.71	14.10	18.55	23.14
As(+), cm2:	19.32	14.98	10.74	10.71	10.71	10.71	10.71	10.71	10.71	13.57	17.58
vu, Kg/cm2:	18.98	18.98	18.98	18.98	19.00	19.05	19.10	19.12	19.12	19.12	19.12
Tu, ton-m:	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	8.90	8.90	8.90	8.90	8.88	8.84	8.81	8.79	8.79	8.79	8.79

DESIGN

8-F 24 #3@ 7.5 8-F1

BEAM: 8(F1-F2) FLOOR: 2

Length: L = 2.10 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-15.28	-12.34	-9.44	-6.57	-3.75	-3.06	-3.06	-4.70	-7.55	-10.44	-13.37
Mu(+), ton-m:	14.25	11.65	9.02	6.35	3.64	3.06	3.06	4.51	7.19	9.83	12.44
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	4.67	4.67	4.67	4.67	4.63	4.59	4.62	4.66	4.66	4.66	4.66
Tu, ton-m:	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8-F1 14 #3@ 15 8-F2

BEAM: 8(F2-F3) FLOOR: 2

Length: L = 2.10 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-14.02	-10.96	-7.95	-4.97	-3.08	-3.08	-3.73	-6.59	-9.50	-12.44	-15.42
Mu(+), ton-m:	12.69	10.05	7.37	4.65	3.08	3.08	3.75	6.58	9.38	12.13	14.85
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	4.90	4.90	4.90	4.90	4.86	4.82	4.77	4.81	4.81	4.81	4.81
Tu, ton-m:	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8-F2 14 #3@ 15 8-F3

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:46 a.m. 05/08/2010

BEAM: 8(F3-G) FLOOR: 2

Length: L = 2.20 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.20 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.22	0.44	0.66	0.88	1.10	1.32	1.54	1.76	1.98	2.20
Mu(-), ton-m:	-48.99	-40.10	-31.27	-22.49	-13.77	-9.80	-9.80	-17.87	-26.03	-34.24	-42.50
Mu(+), ton-m:	37.72	29.94	22.10	14.22	9.80	9.80	9.80	12.08	20.59	29.05	37.45
As(-), cm2:	21.53	17.41	13.42	10.71	10.71	10.71	10.71	10.71	11.10	14.75	18.51
As(+), cm2:	16.33	12.83	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.43	16.21
vu, Kg/cm2:	14.09	14.09	14.09	14.09	14.03	13.97	13.92	13.86	13.85	13.85	13.85
Tu, ton-m:	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8-F3 15 #3@ 15 8-G

BEAM: 8(G-H) FLOOR: 2

Length: L = 7.20 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 6.95 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.70	1.39	2.09	2.78	3.48	4.17	4.87	5.56	6.26	6.95
Mu(-), ton-m:	-43.05	-27.34	-12.19	-10.24	-10.24	-10.24	-10.24	-10.24	-16.90	-33.78	-51.22
Mu(+), ton-m:	14.35	10.24	10.24	12.90	20.13	30.37	25.40	16.52	10.24	10.24	17.07
As(-), cm2:	18.77	11.68	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.55	22.58
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	13.02	10.82	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.33	7.32	7.13	6.94	6.75	6.56	7.32	7.50	7.68	7.85	7.87
Tu, ton-m:	0.78	0.78	0.78	0.78	0.78	0.78	0.95	0.95	0.95	0.95	0.95
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

8-G 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-H

BEAM: 8(H-I) FLOOR: 2

Length: L = 7.10 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 6.60 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.91	1.57	2.23	2.89	3.55	4.21	4.87	5.53	6.19	6.85
Mu(-), ton-m:	-49.55	-33.31	-17.56	-9.91	-9.91	-9.91	-9.91	-9.91	-17.40	-33.12	-49.33
Mu(+), ton-m:	16.52	9.91	9.91	13.74	20.51	26.95	20.50	13.76	9.91	9.91	16.44
As(-), cm2:	21.79	14.33	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.25	21.69
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	11.51	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.69	7.68	7.51	7.35	7.18	7.01	7.17	7.33	7.50	7.67	7.67
Tu, ton-m:	0.93	0.93	0.93	0.93	0.93	0.93	0.91	0.91	0.91	0.91	0.91
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

8-H 11 #3@ 15 10 #3@ 30 11 #3@ 15 8-I

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:46 a.m. 05/08/2010

BEAM: 8(I-J) FLOOR: 2

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-52.39	-34.79	-17.86	-10.88	-10.88	-10.88	-10.88	-10.88	-17.08	-35.31	-54.41
Mu(+), ton-m:	17.46	10.88	10.88	13.55	21.59	29.91	25.96	16.52	10.88	10.88	18.14
As(-), cm2:	23.13	15.00	10.71	10.71	10.71	10.71	10.71	10.71	10.71	15.24	24.09
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.82	11.07	10.71	10.71	10.71	10.71
vu, Kg/cm2:	8.03	8.01	7.79	7.58	7.36	7.15	8.01	8.19	8.37	8.54	8.56
Tu, ton-m:	0.42	0.42	0.42	0.42	0.42	0.42	0.47	0.47	0.47	0.47	0.47
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

8-I 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-J

BEAM: 8(J-K) FLOOR: 2

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-54.11	-35.74	-17.92	-10.82	-10.82	-10.82	-10.82	-10.82	-17.52	-35.20	-53.44
Mu(+), ton-m:	18.04	10.82	10.82	14.62	23.68	32.18	23.81	14.89	10.82	10.82	17.81
As(-), cm2:	23.95	15.43	10.71	10.71	10.71	10.71	10.71	10.71	10.71	15.19	23.63
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	13.83	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	8.31	8.30	8.12	7.94	7.76	7.58	7.72	7.90	8.07	8.25	8.27
Tu, ton-m:	0.50	0.50	0.50	0.50	0.50	0.50	0.49	0.49	0.49	0.49	0.49
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

8-J 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-K

BEAM: 8(K-L) FLOOR: 2

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-53.49	-35.24	-17.53	-10.70	-10.70	-10.70	-10.70	-10.70	-17.52	-35.21	-53.45
Mu(+), ton-m:	17.83	10.70	10.70	14.70	23.72	32.23	23.76	14.75	10.70	10.70	17.82
As(-), cm2:	23.65	15.20	10.71	10.71	10.71	10.71	10.71	10.71	10.71	15.19	23.63
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	13.85	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	8.25	8.24	8.06	7.88	7.71	7.53	7.70	7.88	8.06	8.23	8.25
Tu, ton-m:	0.52	0.52	0.52	0.52	0.52	0.52	0.50	0.50	0.50	0.50	0.50
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

8-K 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-L

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:46 a.m. 05/08/2010

BEAM: 8(L-M) FLOOR: 2

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-50.65	-32.95	-15.81	-11.55	-11.55	-11.55	-11.55	-11.55	-20.16	-38.68	-57.76
Mu(+), ton-m:	16.88	11.55	11.55	16.31	24.46	32.24	23.28	13.75	11.55	11.55	19.25
As(-), cm2:	22.31	14.18	10.71	10.71	10.71	10.71	10.71	10.71	10.71	16.76	25.69
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	13.86	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	8.18	8.16	7.99	7.81	7.63	7.45	8.09	8.27	8.45	8.63	8.64
Tu, ton-m:	0.51	0.51	0.51	0.51	0.51	0.51	0.53	0.53	0.53	0.53	0.53
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

8-L 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-M

BEAM: 8(M-N) FLOOR: 2

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-57.14	-37.84	-19.10	-11.43	-11.43	-11.43	-11.43	-11.43	-17.50	-35.24	-53.53
Mu(+), ton-m:	19.05	11.43	11.43	15.14	24.12	33.75	26.44	18.56	11.43	11.43	17.84
As(-), cm2:	25.40	16.38	10.71	10.71	10.71	10.71	10.71	10.71	10.71	15.20	23.67
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	14.54	11.28	10.71	10.71	10.71	10.71
vu, Kg/cm2:	8.59	8.57	8.40	8.22	8.04	7.86	7.70	7.88	8.06	8.24	8.25
Tu, ton-m:	0.54	0.54	0.54	0.54	0.54	0.54	0.53	0.53	0.53	0.53	0.53
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

8-M 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-N

BEAM: 10(I-J) FLOOR: 3

Length: L = 7.50 m a = 0.23 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.03 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.23	0.93	1.63	2.33	3.04	3.74	4.44	5.14	5.84	6.55	7.25
Mu(-), ton-m:	-16.03	-8.14	-4.97	-4.97	-4.97	-4.97	-4.97	-4.97	-5.07	-14.23	-24.84
Mu(+), ton-m:	5.34	4.97	8.79	12.64	15.75	18.11	13.82	8.04	4.97	4.97	8.28
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	3.53	3.51	3.28	3.05	2.81	2.58	3.73	3.96	4.23	4.56	4.59
Tu, ton-m:	0.33	0.33	0.33	0.33	0.33	0.33	0.11	0.11	0.11	0.11	0.11
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

10-I 11 #3@ 15 12 #3@ 30 11 #3@ 15 10-J

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:46 a.m. 05/08/2010

BEAM: 10(J-K) FLOOR: 3

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-23.81	-14.66	-6.32	-4.76	-4.76	-4.76	-4.76	-4.76	-5.72	-13.59	-22.32
Mu(+), ton-m:	7.94	4.76	4.76	4.76	9.77	14.71	10.74	6.03	4.76	4.76	7.44
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	4.13	4.11	3.89	3.66	3.43	3.20	3.29	3.52	3.75	3.98	3.99
Tu, ton-m:	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

10-J 11 #3@ 15 12 #3@ 30 11 #3@ 15 10-K

BEAM: 10(K-L) FLOOR: 3

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-23.19	-14.12	-5.95	-4.64	-4.64	-4.64	-4.64	-4.64	-5.43	-13.36	-22.27
Mu(+), ton-m:	7.73	4.64	4.64	6.11	10.96	15.09	10.95	6.25	4.64	4.64	7.42
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	4.04	4.02	3.79	3.56	3.33	3.11	3.28	3.51	3.74	3.97	3.99
Tu, ton-m:	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

10-K 11 #3@ 15 12 #3@ 30 11 #3@ 15 10-L

BEAM: 10(L-M) FLOOR: 3

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-22.60	-13.83	-5.90	-4.94	-4.94	-4.94	-4.94	-4.94	-7.08	-15.52	-24.68
Mu(+), ton-m:	7.53	4.94	4.94	5.68	10.17	14.08	9.88	5.01	4.94	4.94	8.23
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	4.01	3.99	3.76	3.53	3.30	3.07	3.43	3.66	3.89	4.12	4.14
Tu, ton-m:	0.21	0.21	0.21	0.21	0.21	0.21	0.16	0.16	0.16	0.16	0.16
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

10-L 11 #3@ 15 12 #3@ 30 11 #3@ 15 10-M

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:46 a.m. 05/08/2010

BEAM: 10(M-N) FLOOR: 3

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-27.11	-16.47	-6.83	-5.42	-5.42	-5.42	-5.42	-5.42	-5.42	-6.69	-14.52
Mu(+), ton-m:	9.04	5.42	5.42	6.93	12.64	18.87	16.75	13.91	10.34	6.05	5.42
As(-), cm2:	11.57	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	4.62	4.59	4.26	4.02	3.79	3.56	2.86	3.09	3.32	3.55	3.57
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.17	0.17	0.17	0.17	0.17
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

10-M 11 #3@ 15 12 #3@ 30 11 #3@ 15 10-N

BEAM: 9'(F-F1) FLOOR: 3

Length: L = 1.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 1.80 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.18	0.36	0.54	0.72	0.90	1.08	1.26	1.44	1.62	1.80
Mu(-), ton-m:	-25.28	-20.45	-15.64	-10.83	-6.05	-5.90	-5.90	-11.52	-17.49	-23.48	-29.48
Mu(+), ton-m:	29.92	24.04	18.15	12.24	6.32	5.90	5.90	8.24	12.98	17.70	22.40
As(-), cm2:	11.13	8.89	6.71	5.36	5.36	5.36	5.36	5.36	7.54	10.29	13.14
As(+), cm2:	13.35	10.55	7.84	5.36	5.36	5.36	5.36	5.36	5.53	7.64	9.79
vu, Kg/cm2:	24.39	24.39	24.39	24.39	24.41	24.44	24.48	24.49	24.49	24.49	24.49
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	12.08	12.08	12.08	12.08	12.07	12.04	12.02	12.01	12.01	12.01	12.01

DESIGN

9'-F 18 #3@ 10 9'-F1

BEAM: 9'(F1-F2) FLOOR: 3

Length: L = 2.10 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-7.51	-6.01	-4.53	-3.06	-1.62	-1.60	-1.60	-2.90	-4.58	-6.27	-7.99
Mu(+), ton-m:	8.31	6.76	5.20	3.61	2.01	1.60	1.60	2.60	3.97	5.32	6.66
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	5.55	5.55	5.55	5.55	5.58	5.63	5.67	5.71	5.71	5.71	5.71
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F1 14 #3@ 15 9'-F2

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:47 a.m. 05/08/2010

BEAM: 9'(F2-F3) FLOOR: 3

Length: L = 2.10 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-7.30	-5.73	-4.18	-2.65	-1.70	-1.70	-1.85	-3.48	-5.13	-6.80	-8.49
Mu(+), ton-m:	7.56	6.04	4.50	2.94	1.70	1.70	1.84	3.30	4.74	6.16	7.56
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	5.36	5.36	5.36	5.36	5.40	5.44	5.48	5.52	5.52	5.52	5.52
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F2 14 #3@ 15 9'-F3

BEAM: 9'(F3-G) FLOOR: 3

Length: L = 2.20 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.20 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.22	0.44	0.66	0.88	1.10	1.32	1.54	1.76	1.98	2.20
Mu(-), ton-m:	-32.80	-26.08	-19.39	-12.72	-6.56	-6.56	-6.56	-9.55	-13.82	-18.12	-22.44
Mu(+), ton-m:	19.82	15.69	11.53	7.36	6.56	6.56	7.18	13.77	20.34	26.90	33.43
As(-), cm2:	14.76	11.51	8.40	5.42	5.36	5.36	5.36	5.36	5.91	7.83	9.81
As(+), cm2:	8.60	6.73	5.36	5.36	5.36	5.36	5.36	5.88	8.84	11.90	15.07
vu, Kg/cm2:	23.55	23.55	23.55	23.54	23.50	23.46	23.41	23.37	23.37	23.37	23.37
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	12.72	12.72	12.72	12.72	12.75	12.79	12.82	12.86	12.86	12.86	12.86

DESIGN

9'-F3 18 #3@ 12.5 9'-G

BEAM: 9(B'-C) FLOOR: 3

Length: L = 3.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 3.60 m c = 0.20 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.36	0.72	1.08	1.44	1.80	2.16	2.52	2.88	3.24	3.60
Mu(-), ton-m:	0.00	-0.11	-0.40	-0.89	-1.56	-2.43	-3.48	-4.73	-6.16	-7.79	-9.59
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.17	0.33	0.50	0.66	0.83	1.00	1.16	1.33	1.36	1.36
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-B' 12 #3@ 30 9-C

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:47 a.m. 05/08/2010

BEAM: 9(C-D) FLOOR: 3

Length: L = 7.50 m a = 0.20 m Section: b = 50.0 cm Sec: S50X70
Lu = 6.85 m c = 0.45 m h = 70.0 cm Mat: RConcrete2

X, m:	0.20	0.89	1.57	2.26	2.94	3.63	4.31	5.00	5.68	6.37	7.05
Mu(-), ton-m:	-50.14	-33.75	-18.02	-10.03	-10.03	-10.03	-10.03	-10.03	-14.58	-30.52	-47.15
Mu(+), ton-m:	16.71	10.03	10.03	14.84	20.67	26.34	22.80	16.67	10.03	10.03	15.72
As(-), cm2:	22.07	14.53	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.09	20.67
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	11.23	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.35	7.33	7.10	6.88	6.65	6.43	6.73	6.94	7.15	7.43	7.45
Tu, ton-m:	1.32	1.32	1.32	1.32	1.32	1.32	1.28	1.28	1.28	1.28	1.28
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-C 11 #3@ 15 11 #3@ 30 11 #3@ 15 9-D

BEAM: 9(D-E) FLOOR: 3

Length: L = 7.50 m a = 0.45 m Section: b = 50.0 cm Sec: S50X70
Lu = 6.60 m c = 0.45 m h = 70.0 cm Mat: RConcrete2

X, m:	0.45	1.11	1.77	2.43	3.09	3.75	4.41	5.07	5.73	6.39	7.05
Mu(-), ton-m:	-52.16	-35.12	-18.71	-10.43	-10.43	-10.43	-10.43	-10.43	-17.69	-33.48	-49.77
Mu(+), ton-m:	17.39	10.43	10.43	14.36	20.87	26.83	21.10	14.94	10.43	10.43	16.59
As(-), cm2:	23.02	15.15	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.41	21.90
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	11.45	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.93	7.92	7.71	7.51	7.31	7.11	7.22	7.37	7.53	7.69	7.70
Tu, ton-m:	1.09	1.09	1.09	1.09	1.09	1.09	1.03	1.03	1.03	1.03	1.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-D 11 #3@ 15 10 #3@ 30 11 #3@ 15 9-E

BEAM: 9(E-F) FLOOR: 3

Length: L = 7.50 m a = 0.45 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.05 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.45	1.16	1.86	2.57	3.27	3.98	4.68	5.39	6.09	6.80	7.50
Mu(-), ton-m:	-51.33	-33.33	-15.89	-10.27	-10.27	-10.27	-10.27	-10.27	-15.87	-31.95	-48.60
Mu(+), ton-m:	17.11	10.27	10.35	19.41	27.91	29.80	19.51	12.37	10.27	10.27	16.20
As(-), cm2:	22.63	14.34	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.73	21.35
As(+), cm2:	10.71	10.71	10.71	10.71	11.93	12.77	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.88	7.86	7.67	7.50	7.33	6.71	6.90	7.09	7.28	7.48	7.49
Tu, ton-m:	1.05	1.05	1.05	1.05	1.05	0.86	0.86	0.86	0.86	0.86	0.86
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-E 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-F

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:47 a.m. 05/08/2010

BEAM: 9(F-F1) FLOOR: 3

Length: L = 1.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 1.80 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.18	0.36	0.54	0.72	0.90	1.08	1.26	1.44	1.62	1.80
Mu(-), ton-m:	-36.87	-30.44	-24.06	-17.71	-11.40	-7.37	-8.52	-14.01	-19.53	-25.09	-30.69
Mu(+), ton-m:	23.61	18.35	13.05	7.72	7.37	7.37	7.37	7.37	13.46	19.58	25.66
As(-), cm2:	15.94	13.05	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.16
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.94
vu, Kg/cm2:	12.67	12.67	12.67	12.67	12.65	12.60	12.55	12.53	12.53	12.53	12.53
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9-F 12 #3@ 15 9-F1

BEAM: 9(F1-F2) FLOOR: 3

Length: L = 2.10 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-15.27	-13.77	-12.31	-10.88	-9.50	-8.14	-6.83	-5.55	-4.31	-3.11	-3.05
Mu(+), ton-m:	12.17	11.31	10.41	9.47	8.49	7.48	6.43	5.34	4.22	3.06	3.05
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	3.08	3.08	3.08	3.08	3.04	3.00	2.96	2.92	2.92	2.92	2.92
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9-F1 14 #3@ 15 9-F2

BEAM: 9(F2-F3) FLOOR: 3

Length: L = 2.10 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-3.73	-3.73	-4.27	-5.94	-7.65	-9.39	-11.17	-12.98	-14.84	-16.73	-18.65
Mu(+), ton-m:	3.73	3.73	3.77	4.95	6.08	7.19	8.25	9.28	10.27	11.22	12.14
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	3.60	3.60	3.60	3.60	3.64	3.68	3.72	3.76	3.76	3.76	3.76
Tu, ton-m:	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9-F2 14 #3@ 15 9-F3

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:47 a.m. 05/08/2010

BEAM: 9(F3-G) FLOOR: 3

Length: L = 2.20 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.20 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.22	0.44	0.66	0.88	1.10	1.32	1.54	1.76	1.98	2.20
Mu(-), ton-m:	-35.47	-28.61	-21.80	-15.05	-8.35	-7.13	-10.54	-16.74	-22.98	-29.28	-35.63
Mu(+), ton-m:	25.49	19.62	13.69	7.71	7.13	7.13	7.13	11.43	17.92	24.35	30.73
As(-), cm2:	15.31	12.24	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.54	15.38
As(+), cm2:	10.86	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.18
vu, Kg/cm2:	10.84	10.84	10.84	10.83	10.78	10.72	10.66	10.61	10.60	10.60	10.60
Tu, ton-m:	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9-F3 15 #3@ 15 9-G

BEAM: 9(G-H) FLOOR: 3

Length: L = 7.20 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 6.95 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.70	1.39	2.09	2.78	3.48	4.17	4.87	5.56	6.26	6.95
Mu(-), ton-m:	-47.35	-30.93	-15.07	-9.81	-9.81	-9.81	-9.81	-9.81	-15.83	-32.18	-49.07
Mu(+), ton-m:	15.78	9.81	9.81	12.51	19.62	29.77	25.82	18.22	10.06	9.81	16.36
As(-), cm2:	20.76	13.27	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.83	21.57
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.75	11.01	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.41	7.40	7.21	7.02	6.83	6.64	6.98	7.16	7.33	7.51	7.52
Tu, ton-m:	0.81	0.81	0.81	0.81	0.81	0.81	1.01	1.01	1.01	1.01	1.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-G 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-H

BEAM: 9(H-I) FLOOR: 3

Length: L = 7.10 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 6.60 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.91	1.57	2.23	2.89	3.55	4.21	4.87	5.53	6.19	6.85
Mu(-), ton-m:	-50.26	-33.91	-18.05	-10.05	-10.05	-10.05	-10.05	-10.05	-16.82	-32.27	-48.21
Mu(+), ton-m:	16.75	10.05	10.05	14.03	20.53	26.59	20.96	14.88	10.05	10.05	16.07
As(-), cm2:	22.13	14.60	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.87	21.16
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	11.34	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.68	7.67	7.51	7.34	7.17	7.01	7.02	7.19	7.36	7.52	7.53
Tu, ton-m:	0.99	0.99	0.99	0.99	0.99	0.99	0.95	0.95	0.95	0.95	0.95
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-H 11 #3@ 15 10 #3@ 30 11 #3@ 15 9-I

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:47 a.m. 05/08/2010

BEAM: 9(I-J) FLOOR: 3

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-44.38	-30.62	-17.41	-8.88	-8.88	-8.88	-8.88	-8.88	-14.90	-28.62	-42.96
Mu(+), ton-m:	14.79	8.88	8.88	11.19	15.37	19.98	18.84	14.39	9.16	8.88	14.32
As(-), cm2:	19.38	13.13	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.25	18.72
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.06	6.04	5.86	5.68	5.51	5.33	5.70	5.88	6.05	6.28	6.30
Tu, ton-m:	0.24	0.24	0.24	0.24	0.24	0.24	0.28	0.28	0.28	0.28	0.28
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-I 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-J

BEAM: 9(J-K) FLOOR: 3

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-43.95	-29.89	-16.39	-8.79	-8.79	-8.79	-8.79	-8.79	-15.58	-28.79	-42.56
Mu(+), ton-m:	14.65	8.79	8.79	12.54	16.89	20.74	17.24	13.18	8.79	8.79	14.19
As(-), cm2:	19.18	12.81	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.32	18.54
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.17	6.15	5.92	5.75	5.57	5.39	5.47	5.65	5.83	6.02	6.04
Tu, ton-m:	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-J 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-K

BEAM: 9(K-L) FLOOR: 3

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.05 m c = 0.20 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.96	1.66	2.37	3.07	3.78	4.48	5.19	5.89	6.60	7.30
Mu(-), ton-m:	-42.25	-28.33	-14.97	-8.58	-8.58	-8.58	-8.58	-8.58	-15.49	-28.91	-42.88
Mu(+), ton-m:	14.08	8.58	8.58	13.48	17.93	21.54	17.26	12.75	8.58	8.58	14.29
As(-), cm2:	18.40	12.12	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.37	18.69
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.07	6.05	5.82	5.64	5.46	5.30	5.48	5.66	5.84	6.07	6.09
Tu, ton-m:	0.28	0.28	0.28	0.28	0.28	0.28	0.31	0.31	0.31	0.31	0.31
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-K 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-L

BEAM: 9(L-M) FLOOR: 3

Length: L = 7.50 m a = 0.20 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.05 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.20	0.91	1.61	2.32	3.02	3.73	4.43	5.14	5.84	6.55	7.25
Mu(-), ton-m:	-40.76	-27.51	-14.81	-8.49	-8.49	-8.49	-8.49	-8.49	-14.98	-28.43	-42.44
Mu(+), ton-m:	13.59	8.49	8.49	12.78	17.39	21.40	15.68	10.19	8.49	8.49	14.15
As(-), cm2:	17.71	11.75	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.16	18.49
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.89	5.87	5.69	5.51	5.33	5.15	5.58	5.76	5.94	6.12	6.14
Tu, ton-m:	0.30	0.30	0.30	0.30	0.30	0.30	0.20	0.20	0.20	0.20	0.20
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-L 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-M

BEAM: 9(M-N) FLOOR: 3

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.05 m c = 0.20 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.96	1.66	2.37	3.07	3.78	4.48	5.19	5.89	6.60	7.30
Mu(-), ton-m:	-42.01	-27.64	-13.83	-8.40	-8.40	-8.40	-8.40	-8.40	-11.73	-24.12	-37.07
Mu(+), ton-m:	14.00	8.40	8.40	11.26	17.31	23.63	19.73	15.23	10.16	8.40	12.36
As(-), cm2:	18.29	11.81	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	16.03
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.27	6.24	6.01	5.83	5.65	5.42	5.18	5.36	5.54	5.73	5.74
Tu, ton-m:	0.19	0.19	0.19	0.19	0.19	0.19	0.23	0.23	0.23	0.23	0.23
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-M 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-N

BEAM: 8'(B'-C) FLOOR: 3

Length: L = 3.80 m a = 0.10 m Section: b = 25.0 cm Sec: S25X70
Lu = 3.45 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.10	0.45	0.79	1.14	1.48	1.83	2.17	2.52	2.86	3.21	3.55
Mu(-), ton-m:	-2.44	-4.27	-6.16	-8.09	-10.09	-12.13	-14.22	-16.36	-18.55	-20.78	-23.07
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.63	6.63	6.63	6.63	6.63	6.63	7.36	8.31	9.30	10.32	11.37
As(+), cm2:	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63
vu, Kg/cm2:	3.45	3.45	3.47	3.56	3.65	3.74	3.83	3.92	4.01	4.02	4.02
Tu, ton-m:	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8'-B' 12 #3@ 30 8'-C

BEAM: 8'(C-D) FLOOR: 3

Length: L = 7.50 m a = 0.25 m Section: b = 25.0 cm Sec: S25X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-19.90	-15.45	-11.49	-8.06	-5.17	-2.81	-1.08	-0.13	0.00	0.00	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.87	1.03	0.70
As(-), cm2:	8.64	6.63	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	3.80	3.75	3.28	2.80	2.32	1.84	1.36	0.88	0.40	0.11	0.15
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8'-C 24 #3@ 30 8'-D

BEAM: 8'(F-F1) FLOOR: 3

Length: L = 1.80 m a = 0.00 m Section: b = 40.0 cm Sec: S40X70
Lu = 1.80 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.18	0.36	0.54	0.72	0.90	1.08	1.26	1.44	1.62	1.80
Mu(-), ton-m:	-24.18	-19.81	-15.48	-11.19	-6.92	-5.71	-5.71	-8.95	-15.46	-22.00	-28.57
Mu(+), ton-m:	35.71	29.42	23.11	16.76	10.38	5.71	5.71	5.71	9.82	13.92	18.00
As(-), cm2:	10.36	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	9.40	12.34
As(+), cm2:	15.60	12.72	9.89	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
vu, Kg/cm2:	17.22	17.22	17.22	17.22	17.25	17.30	17.35	17.38	17.38	17.38	17.38
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	13.14	13.14	13.14	13.14	13.11	13.04	12.97	12.94	12.94	12.94	12.94

DESIGN

8'-F 14 #3@ 12.5 8'-F1

BEAM: 8'(F1-F2) FLOOR: 3

Length: L = 2.10 m a = 0.00 m Section: b = 40.0 cm Sec: S40X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-12.92	-11.67	-10.45	-9.26	-8.10	-6.97	-5.87	-4.80	-3.75	-2.74	-2.58
Mu(+), ton-m:	6.51	6.19	5.85	5.47	5.07	4.64	4.17	3.68	3.16	2.61	2.58
As(-), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
As(+), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
vu, Kg/cm2:	3.64	3.64	3.64	3.64	3.60	3.56	3.51	3.47	3.47	3.47	3.47
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F1 14 #3@ 15 8'-F2

BEAM: 8'(F2-F3) FLOOR: 3

Length: L = 2.10 m a = 0.00 m Section: b = 40.0 cm Sec: S40X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-2.80	-2.80	-3.70	-4.88	-6.10	-7.34	-8.62	-9.92	-11.26	-12.62	-14.02
Mu(+), ton-m:	2.80	2.80	2.80	3.53	4.32	5.08	5.81	6.52	7.19	7.83	8.45
As(-), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
As(+), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
vu, Kg/cm2:	3.37	3.37	3.37	3.37	3.41	3.46	3.50	3.54	3.54	3.54	3.54
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F2 14 #3@ 15 8'-F3

BEAM: 8'(F3-G) FLOOR: 3

Length: L = 2.20 m a = 0.00 m Section: b = 40.0 cm Sec: S40X70
Lu = 2.20 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.22	0.44	0.66	0.88	1.10	1.32	1.54	1.76	1.98	2.20
Mu(-), ton-m:	-31.09	-24.02	-17.00	-10.02	-6.22	-6.22	-6.97	-11.62	-16.32	-21.06	-25.85
Mu(+), ton-m:	19.99	15.61	11.18	6.71	6.22	6.22	10.64	17.44	24.19	30.89	37.55
As(-), cm2:	13.48	10.29	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.99	11.11
As(+), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	10.37	13.39	16.46
vu, Kg/cm2:	15.19	15.19	15.19	15.18	15.12	15.06	15.00	14.94	14.93	14.93	14.93
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F3 15 #3@ 15 8'-G

BEAM: 8(C-D) FLOOR: 3

Length: L = 7.50 m a = 0.45 m Section: b = 50.0 cm Sec: S50X70
Lu = 6.60 m c = 0.45 m h = 70.0 cm Mat: RConcrete2

X, m:	0.45	1.11	1.77	2.43	3.09	3.75	4.41	5.07	5.73	6.39	7.05
Mu(-), ton-m:	-58.32	-40.31	-22.79	-11.66	-11.66	-11.66	-11.66	-11.66	-18.06	-34.46	-51.35
Mu(+), ton-m:	19.44	11.66	11.66	14.00	21.33	28.18	21.26	14.88	11.66	11.66	17.12
As(-), cm2:	25.97	17.51	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.85	22.64
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.05	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	8.57	8.56	8.40	8.24	8.09	7.93	7.69	7.85	8.00	8.16	8.17
Tu, ton-m:	1.03	1.03	1.03	1.03	1.03	1.03	1.01	1.01	1.01	1.01	1.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

8-C 11 #3@ 15 10 #3@ 30 11 #3@ 15 8-D

BEAM: 8(D-E) FLOOR: 3

Length: L = 7.50 m a = 0.45 m Section: b = 50.0 cm Sec: S50X70
Lu = 6.60 m c = 0.45 m h = 70.0 cm Mat: RConcrete2

X, m:	0.45	1.11	1.77	2.43	3.09	3.75	4.41	5.07	5.73	6.39	7.05
Mu(-), ton-m:	-52.53	-35.27	-18.50	-10.57	-10.57	-10.57	-10.57	-10.57	-18.75	-35.54	-52.83
Mu(+), ton-m:	17.51	10.57	10.57	15.05	22.15	29.00	22.26	15.16	10.57	10.57	17.61
As(-), cm2:	23.20	15.22	10.71	10.71	10.71	10.71	10.71	10.71	10.71	15.34	23.34
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.41	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	8.11	8.11	7.95	7.79	7.63	7.48	7.64	7.80	7.96	8.12	8.12
Tu, ton-m:	0.88	0.88	0.88	0.88	0.88	0.88	0.86	0.86	0.86	0.86	0.86
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

8-D 11 #3@ 15 10 #3@ 30 11 #3@ 15 8-E

BEAM: 8(E-F) FLOOR: 3

Length: L = 7.50 m a = 0.45 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.05 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.45	1.16	1.86	2.57	3.27	3.98	4.68	5.39	6.09	6.80	7.50
Mu(-), ton-m:	-53.29	-34.73	-16.75	-10.66	-10.66	-10.66	-10.66	-10.66	-15.11	-31.27	-48.00
Mu(+), ton-m:	17.76	10.66	10.66	19.52	28.57	30.68	20.03	12.84	10.66	10.66	16.00
As(-), cm2:	23.56	14.98	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.42	21.06
As(+), cm2:	10.71	10.71	10.71	10.71	12.22	13.16	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	8.13	8.11	7.94	7.77	7.60	6.82	7.01	7.20	7.39	7.59	7.60
Tu, ton-m:	0.94	0.94	0.94	0.94	0.94	0.79	0.79	0.79	0.79	0.79	0.79
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

8-E 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-F

BEAM: 8(F-F1) FLOOR: 3

Length: L = 1.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 1.80 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.18	0.36	0.54	0.72	0.90	1.08	1.26	1.44	1.62	1.80
Mu(-), ton-m:	-36.33	-29.48	-22.68	-15.91	-10.14	-10.14	-16.52	-25.02	-33.55	-42.12	-50.72
Mu(+), ton-m:	33.65	25.38	17.07	10.14	10.14	10.14	10.14	10.77	17.35	23.89	30.40
As(-), cm2:	15.69	12.63	10.71	10.71	10.71	10.71	10.71	10.71	14.44	18.34	22.34
As(+), cm2:	14.49	10.81	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.03
vu, Kg/cm2:	17.35	17.35	17.35	17.35	17.38	17.42	17.47	17.50	17.50	17.50	17.50
Tu, ton-m:	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	10.37	10.37	10.37	10.37	10.35	10.30	10.25	10.23	10.23	10.23	10.23

DESIGN

8-F 18 #3@ 10 8-F1

BEAM: 8(F1-F2) FLOOR: 3

Length: L = 2.10 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-16.36	-13.19	-10.04	-6.94	-3.87	-3.27	-3.27	-5.28	-8.50	-11.75	-15.05
Mu(+), ton-m:	16.22	13.26	10.26	7.23	4.16	3.27	3.27	5.11	8.03	10.91	13.76
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.19	5.19	5.19	5.19	5.19	5.23	5.28	5.31	5.31	5.31	5.31
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8-F1 14 #3@ 15 8-F2

BEAM: 8(F2-F3) FLOOR: 3

Length: L = 2.10 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-15.59	-12.18	-8.80	-5.47	-3.25	-3.25	-3.84	-6.89	-9.97	-13.09	-16.25
Mu(+), ton-m:	13.65	10.83	7.97	5.07	3.25	3.25	4.32	7.51	10.66	13.78	16.85
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.59	5.59	5.59	5.59	5.55	5.51	5.47	5.43	5.43	5.43	5.43
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8-F2 14 #3@ 15 8-F3

BEAM: 8(F3-G) FLOOR: 3

Length: L = 2.20 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.20 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.22	0.44	0.66	0.88	1.10	1.32	1.54	1.76	1.98	2.20
Mu(-), ton-m:	-50.32	-41.41	-32.55	-23.75	-15.00	-10.06	-10.06	-16.28	-23.58	-30.93	-38.34
Mu(+), ton-m:	33.30	26.38	19.40	12.37	10.06	10.06	10.06	10.93	19.47	27.95	36.38
As(-), cm2:	22.15	18.01	13.99	10.71	10.71	10.71	10.71	10.71	10.71	13.27	16.61
As(+), cm2:	14.33	11.25	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.95	15.72
vu, Kg/cm2:	14.60	14.60	14.60	14.60	14.54	14.48	14.43	14.37	14.37	14.37	14.37
Tu, ton-m:	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	14.42	14.42	14.42	14.43	14.54	14.66	14.79	14.91	14.92	14.92	14.92

DESIGN

8-F3 18 #3@ 12.5 8-G

BEAM: 8(G-H) FLOOR: 3

Length: L = 7.20 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 6.95 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.70	1.39	2.09	2.78	3.48	4.17	4.87	5.56	6.26	6.95
Mu(-), ton-m:	-45.34	-29.15	-13.51	-10.63	-10.63	-10.63	-10.63	-10.63	-18.02	-35.30	-53.13
Mu(+), ton-m:	15.11	10.63	10.63	13.73	20.47	30.62	26.04	17.65	10.63	10.63	17.71
As(-), cm2:	19.83	12.48	10.71	10.71	10.71	10.71	10.71	10.71	10.71	15.23	23.48
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	13.13	11.10	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.48	7.47	7.28	7.09	6.90	6.71	7.44	7.62	7.79	7.97	7.98
Tu, ton-m:	0.76	0.76	0.76	0.76	0.76	0.76	0.98	0.98	0.98	0.98	0.98
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

8-G 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-H

BEAM: 8(H-I) FLOOR: 3

Length: L = 7.10 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 6.60 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.91	1.57	2.23	2.89	3.55	4.21	4.87	5.53	6.19	6.85
Mu(-), ton-m:	-50.46	-34.01	-18.05	-10.14	-10.14	-10.14	-10.14	-10.14	-18.21	-34.21	-50.69
Mu(+), ton-m:	16.82	10.14	10.14	14.31	20.80	26.99	20.82	14.30	10.14	10.14	16.90
As(-), cm2:	22.22	14.65	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.74	22.33
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	11.52	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.75	7.75	7.58	7.42	7.25	7.08	7.26	7.43	7.59	7.76	7.77
Tu, ton-m:	0.93	0.93	0.93	0.93	0.93	0.93	0.92	0.92	0.92	0.92	0.92
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

8-H 11 #3@ 15 10 #3@ 30 11 #3@ 15 8-I

BEAM: 8(I-J) FLOOR: 3

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-53.67	-35.83	-18.64	-11.16	-11.16	-11.16	-11.16	-11.16	-17.87	-36.42	-55.80
Mu(+), ton-m:	17.89	11.16	11.16	14.07	21.85	29.96	26.17	16.96	11.16	11.16	18.60
As(-), cm2:	23.74	15.47	10.71	10.71	10.71	10.71	10.71	10.71	10.71	15.74	24.75
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.84	11.16	10.71	10.71	10.71	10.71
vu, Kg/cm2:	8.12	8.10	7.88	7.67	7.45	7.24	8.11	8.29	8.46	8.64	8.66
Tu, ton-m:	0.43	0.43	0.43	0.43	0.43	0.43	0.48	0.48	0.48	0.48	0.48
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

8-I 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-J

BEAM: 8(J-K) FLOOR: 3

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-55.13	-36.54	-18.50	-11.05	-11.05	-11.05	-11.05	-11.05	-18.59	-36.63	-55.23
Mu(+), ton-m:	18.38	11.05	11.05	15.23	23.99	32.23	24.03	15.27	11.05	11.05	18.41
As(-), cm2:	24.43	15.79	10.71	10.71	10.71	10.71	10.71	10.71	10.71	15.83	24.48
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	13.85	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	8.38	8.36	8.19	8.01	7.83	7.65	7.83	8.01	8.19	8.37	8.38
Tu, ton-m:	0.48	0.48	0.48	0.48	0.48	0.48	0.49	0.49	0.49	0.49	0.49
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

8-J 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-K

BEAM: 8(K-L) FLOOR: 3

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-54.97	-36.34	-18.26	-10.99	-10.99	-10.99	-10.99	-10.99	-16.80	-34.47	-52.69
Mu(+), ton-m:	18.32	10.99	10.99	15.26	24.33	32.84	24.49	15.81	10.99	10.99	17.56
As(-), cm2:	24.36	15.70	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.86	23.27
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	14.12	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	8.39	8.37	8.19	8.02	7.84	7.66	7.70	7.88	8.06	8.24	8.25
Tu, ton-m:	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

8-K 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-L

BEAM: 8(L-M) FLOOR: 3

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-48.98	-31.88	-15.33	-11.25	-11.25	-11.25	-11.25	-11.25	-19.09	-37.40	-56.27
Mu(+), ton-m:	16.33	11.25	11.25	16.32	24.67	32.46	21.50	11.28	11.25	11.25	18.76
As(-), cm2:	21.53	13.69	10.71	10.71	10.71	10.71	10.71	10.71	10.71	16.18	24.98
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	13.95	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	8.01	8.00	7.82	7.64	7.47	7.29	8.06	8.23	8.41	8.59	8.60
Tu, ton-m:	0.57	0.57	0.57	0.57	0.57	0.57	0.54	0.54	0.54	0.54	0.54
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

8-L 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-M

BEAM: 8(M-N) FLOOR: 3

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-53.79	-34.96	-16.68	-10.76	-10.76	-10.76	-10.76	-10.76	-12.63	-28.71	-45.58
Mu(+), ton-m:	17.93	10.76	10.76	13.22	23.60	34.76	27.00	18.69	10.76	10.76	15.19
As(-), cm2:	23.79	15.08	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.28	19.94
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	14.99	11.53	10.71	10.71	10.71	10.71
vu, Kg/cm2:	8.44	8.43	8.25	8.07	7.90	7.72	7.24	7.42	7.60	7.78	7.79
Tu, ton-m:	0.58	0.58	0.58	0.58	0.58	0.58	0.55	0.55	0.55	0.55	0.55
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

8-M 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-N

BEAM: 9'(F-F1) FLOOR: 4

Length: L = 1.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 1.80 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.18	0.36	0.54	0.72	0.90	1.08	1.26	1.44	1.62	1.80
Mu(-), ton-m:	-20.23	-16.39	-12.56	-8.75	-5.38	-5.38	-5.38	-10.30	-15.82	-21.36	-26.91
Mu(+), ton-m:	27.98	22.56	17.11	11.66	6.19	5.38	5.38	6.37	10.11	13.84	17.56
As(-), cm2:	8.79	7.05	5.36	5.36	5.36	5.36	5.36	5.36	6.79	9.31	11.91
As(+), cm2:	12.42	9.86	7.37	5.36	5.36	5.36	5.36	5.36	5.36	5.92	7.58
vu, Kg/cm2:	23.35	23.35	23.35	23.35	23.37	23.40	23.44	23.46	23.46	23.46	23.46
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	12.87	12.87	12.87	12.87	12.86	12.83	12.80	12.79	12.79	12.79	12.79

DESIGN

9'-F 14 #3@ 12.5 9'-F1

BEAM: 9'(F1-F2) FLOOR: 4

Length: L = 2.10 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-6.88	-5.51	-4.17	-2.84	-1.53	-1.44	-1.44	-2.67	-4.16	-5.67	-7.19
Mu(+), ton-m:	7.24	5.88	4.50	3.10	1.69	1.44	1.44	2.28	3.52	4.73	5.93
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	4.87	4.87	4.87	4.87	4.91	4.95	4.99	5.03	5.03	5.03	5.03
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F1 14 #3@ 15 9'-F2

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:47 a.m. 05/08/2010

BEAM: 9'(F2-F3) FLOOR: 4

Length: L = 2.10 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-6.56	-5.16	-3.78	-2.42	-1.56	-1.56	-1.76	-3.24	-4.73	-6.25	-7.78
Mu(+), ton-m:	6.72	5.36	3.97	2.57	1.56	1.56	1.56	2.84	4.11	5.36	6.59
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	4.87	4.87	4.87	4.87	4.91	4.95	4.99	5.03	5.03	5.03	5.03
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F2 14 #3@ 15 9'-F3

BEAM: 9'(F3-G) FLOOR: 4

Length: L = 2.20 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.20 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.22	0.44	0.66	0.88	1.10	1.32	1.54	1.76	1.98	2.20
Mu(-), ton-m:	-30.47	-24.21	-17.98	-11.77	-6.09	-6.09	-6.09	-7.80	-11.33	-14.88	-18.45
Mu(+), ton-m:	16.33	12.94	9.54	6.11	6.09	6.09	6.75	12.89	19.00	25.09	31.16
As(-), cm2:	13.62	10.63	7.76	5.36	5.36	5.36	5.36	5.36	5.36	6.38	7.98
As(+), cm2:	7.02	5.52	5.36	5.36	5.36	5.36	5.36	5.49	8.23	11.04	13.96
vu, Kg/cm2:	22.41	22.41	22.41	22.40	22.36	22.31	22.27	22.23	22.22	22.22	22.22
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	13.69	13.69	13.69	13.70	13.74	13.78	13.82	13.86	13.86	13.86	13.86

DESIGN

9'-F3 18 #3@ 12.5 9'-G

BEAM: 9(B'-C) FLOOR: 4

Length: L = 3.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 3.60 m c = 0.20 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.36	0.72	1.08	1.44	1.80	2.16	2.52	2.88	3.24	3.60
Mu(-), ton-m:	0.00	-6.44	-13.04	-19.79	-26.69	-33.74	-40.94	-48.28	-55.78	-63.43	-71.22
Mu(+), ton-m:	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	11.39	14.53	17.79	21.20	24.75	28.45	32.32
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.53	5.66	5.79	5.92	6.05	6.18	6.31	6.44	6.57	6.60	6.60
Tu, ton-m:	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-B' 12 #3@ 30 9-C

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:47 a.m. 05/08/2010

BEAM: 9(C-D) FLOOR: 4

Length: L = 7.50 m a = 0.20 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.05 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.20	0.91	1.61	2.32	3.02	3.73	4.43	5.14	5.84	6.55	7.25
Mu(-), ton-m:	-64.53	-44.95	-25.93	-12.91	-12.91	-12.91	-12.91	-12.91	-13.69	-29.03	-44.93
Mu(+), ton-m:	21.51	12.91	12.91	12.91	19.46	28.15	23.41	17.79	12.91	12.91	14.98
As(-), cm2:	28.99	19.64	11.05	10.71	10.71	10.71	10.71	10.71	10.71	12.43	19.64
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.04	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	8.88	8.86	8.68	8.50	8.32	8.14	7.09	7.27	7.45	7.63	7.64
Tu, ton-m:	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-C 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-D

BEAM: 9(D-E) FLOOR: 4

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-54.01	-36.19	-18.92	-10.80	-10.80	-10.80	-10.80	-10.80	-17.68	-34.54	-51.95
Mu(+), ton-m:	18.00	10.80	10.80	14.98	22.54	29.57	22.94	15.79	10.80	10.80	17.32
As(-), cm2:	23.90	15.63	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.89	22.93
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.67	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.94	7.92	7.75	7.57	7.39	7.21	7.25	7.43	7.61	7.79	7.80
Tu, ton-m:	1.06	1.06	1.06	1.06	1.06	1.06	1.01	1.01	1.01	1.01	1.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-D 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-E

BEAM: 9(E-F) FLOOR: 4

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.25 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.98	1.70	2.43	3.15	3.88	4.60	5.33	6.05	6.78	7.50
Mu(-), ton-m:	-52.21	-34.16	-16.71	-10.44	-10.44	-10.44	-10.44	-10.44	-16.49	-33.69	-51.50
Mu(+), ton-m:	17.40	10.44	10.80	19.57	27.74	32.06	20.85	12.94	10.44	10.44	17.17
As(-), cm2:	23.04	14.72	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.51	22.71
As(+), cm2:	10.71	10.71	10.71	10.71	11.85	13.78	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.73	7.71	7.52	7.34	7.15	6.94	7.09	7.29	7.48	7.68	7.70
Tu, ton-m:	1.10	1.10	1.10	1.10	1.10	0.93	0.84	0.84	0.84	0.84	0.84
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-E 11 #3@ 15 13 #3@ 30 11 #3@ 15 9-F

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:48 a.m. 05/08/2010

BEAM: 9(F-F1) FLOOR: 4

Length: L = 1.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 1.80 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.18	0.36	0.54	0.72	0.90	1.08	1.26	1.44	1.62	1.80
Mu(-), ton-m:	-31.54	-26.11	-20.72	-15.36	-10.04	-6.31	-8.44	-13.14	-17.87	-22.65	-27.46
Mu(+), ton-m:	18.95	14.48	9.97	6.31	6.31	6.31	6.31	6.31	10.85	15.98	21.07
As(-), cm2:	13.54	11.13	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.73
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	10.62	10.62	10.62	10.62	10.60	10.55	10.50	10.48	10.48	10.48	10.48
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9-F 12 #3@ 15 9-F1

BEAM: 9(F1-F2) FLOOR: 4

Length: L = 2.10 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-14.34	-12.89	-11.47	-10.09	-8.75	-7.45	-6.18	-4.95	-3.75	-2.87	-2.87
Mu(+), ton-m:	10.53	9.77	8.98	8.15	7.28	6.38	5.44	4.46	3.44	2.87	2.87
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.87	2.87	2.87	2.87	2.83	2.79	2.75	2.71	2.71	2.71	2.71
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9-F1 14 #3@ 15 9-F2

BEAM: 9(F2-F3) FLOOR: 4

Length: L = 2.10 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-3.62	-3.62	-3.74	-5.40	-7.11	-8.85	-10.63	-12.44	-14.29	-16.18	-18.10
Mu(+), ton-m:	3.62	3.62	3.62	4.20	5.23	6.22	7.17	8.08	8.96	9.80	10.61
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	3.50	3.50	3.50	3.50	3.54	3.58	3.62	3.66	3.66	3.66	3.66
Tu, ton-m:	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9-F2 14 #3@ 15 9-F3

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:49 a.m. 05/08/2010

BEAM: 9(F3-G) FLOOR: 4

Length: L = 2.20 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.20 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.22	0.44	0.66	0.88	1.10	1.32	1.54	1.76	1.98	2.20
Mu(-), ton-m:	-32.69	-26.59	-20.54	-14.54	-8.60	-6.54	-8.95	-14.21	-19.53	-24.90	-30.32
Mu(+), ton-m:	21.48	16.54	11.55	6.54	6.54	6.54	6.54	8.90	14.63	20.30	25.92
As(-), cm2:	14.06	11.34	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.00
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.05
vu, Kg/cm2:	9.73	9.73	9.73	9.73	9.67	9.61	9.56	9.50	9.49	9.49	9.49
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9-F3 15 #3@ 15 9-G

BEAM: 9(G-H) FLOOR: 4

Length: L = 7.20 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 6.95 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.70	1.39	2.09	2.78	3.48	4.17	4.87	5.56	6.26	6.95
Mu(-), ton-m:	-48.09	-31.46	-15.40	-9.85	-9.85	-9.85	-9.85	-9.85	-15.96	-32.33	-49.25
Mu(+), ton-m:	16.03	9.85	9.85	12.50	19.58	30.03	26.31	18.92	10.97	9.85	16.42
As(-), cm2:	21.11	13.51	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.90	21.65
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.87	11.22	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.47	7.45	7.26	7.07	6.88	6.70	6.97	7.15	7.32	7.50	7.51
Tu, ton-m:	0.82	0.82	0.82	0.82	0.82	0.82	1.02	1.02	1.02	1.02	1.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-G 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-H

BEAM: 9(H-I) FLOOR: 4

Length: L = 7.10 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 6.60 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.91	1.57	2.23	2.89	3.55	4.21	4.87	5.53	6.19	6.85
Mu(-), ton-m:	-49.99	-33.75	-18.00	-10.00	-10.00	-10.00	-10.00	-10.00	-18.01	-33.75	-49.98
Mu(+), ton-m:	16.66	10.00	10.00	14.31	20.51	26.27	20.54	14.34	10.00	10.00	16.66
As(-), cm2:	22.00	14.53	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.53	21.99
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	11.21	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.62	7.62	7.45	7.28	7.12	6.95	7.11	7.28	7.45	7.61	7.62
Tu, ton-m:	0.98	0.98	0.98	0.98	0.98	0.98	0.96	0.96	0.96	0.96	0.96
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-H 11 #3@ 15 10 #3@ 30 11 #3@ 15 9-I

BEAM: 9(I-J) FLOOR: 4

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-51.60	-34.87	-18.68	-10.52	-10.52	-10.52	-10.52	-10.52	-17.04	-34.41	-52.58
Mu(+), ton-m:	17.20	10.52	10.52	13.24	20.22	27.65	24.61	16.63	10.52	10.52	17.53
As(-), cm2:	22.76	15.04	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.83	23.22
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	11.81	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.57	7.56	7.38	7.20	7.02	6.84	7.50	7.68	7.86	8.03	8.05
Tu, ton-m:	0.88	0.88	0.88	0.88	0.88	0.88	0.97	0.97	0.97	0.97	0.97
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-I 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-J

BEAM: 9(J-K) FLOOR: 4

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-53.02	-35.42	-18.38	-10.60	-10.60	-10.60	-10.60	-10.60	-17.23	-33.90	-51.12
Mu(+), ton-m:	17.67	10.60	10.60	14.44	22.21	29.41	22.54	15.13	10.60	10.60	17.04
As(-), cm2:	23.43	15.29	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.60	22.53
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.60	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.87	7.86	7.68	7.50	7.33	7.15	7.20	7.38	7.56	7.73	7.75
Tu, ton-m:	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-J 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-K

BEAM: 9(K-L) FLOOR: 4

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.05 m c = 0.20 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.96	1.66	2.37	3.07	3.78	4.48	5.19	5.89	6.60	7.30
Mu(-), ton-m:	-49.48	-32.53	-16.14	-11.84	-11.84	-11.84	-11.84	-11.84	-22.73	-40.69	-59.21
Mu(+), ton-m:	16.49	11.84	11.84	15.66	22.42	28.81	21.15	12.88	11.84	11.84	19.74
As(-), cm2:	21.76	13.99	10.71	10.71	10.71	10.71	10.71	10.71	10.71	17.68	26.40
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.33	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.81	7.79	7.62	7.44	7.26	7.16	7.78	7.97	8.15	8.33	8.34
Tu, ton-m:	0.90	0.90	0.90	0.90	0.90	0.90	0.86	0.86	0.86	0.86	0.86
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-K 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-L

BEAM: 9(L-L1) FLOOR: 4

Length: L = 3.75 m a = 0.20 m Section: b = 50.0 cm Sec: S50X70
Lu = 3.55 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.20	0.56	0.91	1.27	1.62	1.98	2.33	2.69	3.04	3.40	3.75
Mu(-), ton-m:	-69.56	-61.96	-54.49	-47.17	-40.00	-32.97	-26.09	-19.35	-12.75	-6.30	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	31.49	27.73	24.13	20.68	17.37	14.18	11.12	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.53	6.53	6.51	6.38	6.25	6.12	5.99	5.86	5.73	5.61	5.48
Tu, ton-m:	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-L 12 #3@ 30 9-L1

BEAM: 8'(F-F1) FLOOR: 4

Length: L = 1.80 m a = 0.00 m Section: b = 40.0 cm Sec: S40X70
Lu = 1.80 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.18	0.36	0.54	0.72	0.90	1.08	1.26	1.44	1.62	1.80
Mu(-), ton-m:	-19.39	-15.89	-12.43	-9.00	-5.61	-5.21	-5.21	-8.00	-13.99	-20.00	-26.05
Mu(+), ton-m:	32.99	27.23	21.44	15.61	9.76	5.21	5.21	5.21	7.66	10.90	14.10
As(-), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	11.20
As(+), cm2:	14.35	11.73	9.15	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
vu, Kg/cm2:	16.24	16.24	16.24	16.24	16.26	16.32	16.37	16.39	16.39	16.39	16.39
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	14.63	14.63	14.63	14.63	14.59	14.50	14.42	14.38	14.38	14.38	14.38

DESIGN

8'-F 14 #3@ 12.5 8'-F1

BEAM: 8'(F1-F2) FLOOR: 4

Length: L = 2.10 m a = 0.00 m Section: b = 40.0 cm Sec: S40X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-12.49	-11.23	-10.01	-8.82	-7.65	-6.52	-5.41	-4.34	-3.29	-2.50	-2.50
Mu(+), ton-m:	5.41	5.15	4.85	4.53	4.18	3.79	3.38	2.94	2.50	2.50	2.50
As(-), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
As(+), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
vu, Kg/cm2:	3.46	3.46	3.46	3.46	3.42	3.38	3.34	3.30	3.30	3.30	3.30
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F1 14 #3@ 15 8'-F2

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
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BEAM: 8'(F2-F3) FLOOR: 4

Length: L = 2.10 m a = 0.00 m Section: b = 40.0 cm Sec: S40X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-2.77	-2.77	-3.27	-4.49	-5.74	-7.01	-8.32	-9.66	-11.02	-12.42	-13.84
Mu(+), ton-m:	2.77	2.77	2.77	2.92	3.65	4.35	5.02	5.66	6.27	6.85	7.41
As(-), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
As(+), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
vu, Kg/cm2:	3.32	3.32	3.32	3.32	3.36	3.40	3.44	3.48	3.48	3.48	3.48
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F2 14 #3@ 15 8'-F3

BEAM: 8'(F3-G) FLOOR: 4

Length: L = 2.20 m a = 0.00 m Section: b = 40.0 cm Sec: S40X70
Lu = 2.20 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.22	0.44	0.66	0.88	1.10	1.32	1.54	1.76	1.98	2.20
Mu(-), ton-m:	-28.82	-22.23	-15.68	-9.18	-5.76	-5.76	-5.76	-9.37	-13.26	-17.19	-21.17
Mu(+), ton-m:	16.58	13.01	9.40	5.76	5.76	5.76	10.05	16.37	22.64	28.87	35.06
As(-), cm2:	12.45	9.50	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	9.03
As(+), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	9.68	12.47	15.30
vu, Kg/cm2:	14.47	14.47	14.47	14.46	14.40	14.34	14.28	14.22	14.22	14.22	14.22
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F3 15 #3@ 15 8'-G

BEAM: 8(B'-C) FLOOR: 4

Length: L = 3.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 3.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.36	0.71	1.07	1.42	1.78	2.13	2.49	2.84	3.20	3.55
Mu(-), ton-m:	-0.01	-6.53	-13.19	-20.00	-26.96	-34.06	-41.30	-48.69	-56.22	-63.90	-71.72
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	11.51	14.67	17.96	21.39	24.96	28.68	32.57
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.67	5.79	5.92	6.05	6.18	6.31	6.44	6.57	6.70	6.72	6.72
Tu, ton-m:	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-B' 12 #3@ 30 8-C

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
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BEAM: 8(C-D) FLOOR: 4

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-56.29	-38.04	-20.34	-11.26	-11.26	-11.26	-11.26	-11.26	-18.41	-35.64	-53.42
Mu(+), ton-m:	18.76	11.26	11.26	14.83	22.63	29.87	22.67	15.31	11.26	11.26	17.81
As(-), cm2:	24.99	16.47	10.71	10.71	10.71	10.71	10.71	10.71	10.71	15.39	23.62
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.80	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	8.19	8.17	8.00	7.82	7.64	7.46	7.48	7.66	7.84	8.01	8.03
Tu, ton-m:	0.95	0.95	0.95	0.95	0.95	0.95	0.94	0.94	0.94	0.94	0.94
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

8-C 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-D

BEAM: 8(D-E) FLOOR: 4

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-54.84	-36.75	-19.20	-10.97	-10.97	-10.97	-10.97	-10.97	-18.70	-36.10	-54.05
Mu(+), ton-m:	18.28	10.97	10.97	15.39	23.03	30.12	23.12	15.62	10.97	10.97	18.02
As(-), cm2:	24.30	15.89	10.71	10.71	10.71	10.71	10.71	10.71	10.71	15.59	23.92
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.91	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	8.08	8.06	7.88	7.70	7.53	7.35	7.48	7.66	7.83	8.01	8.03
Tu, ton-m:	0.92	0.92	0.92	0.92	0.92	0.92	0.89	0.89	0.89	0.89	0.89
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

8-D 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-E

BEAM: 8(E-F) FLOOR: 4

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.25 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.98	1.70	2.43	3.15	3.88	4.60	5.33	6.05	6.78	7.50
Mu(-), ton-m:	-54.14	-35.51	-17.48	-10.83	-10.83	-10.83	-10.83	-10.83	-15.73	-33.06	-51.00
Mu(+), ton-m:	18.05	10.83	10.83	19.85	28.51	33.19	21.66	13.70	10.83	10.83	17.00
As(-), cm2:	23.96	15.33	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.22	22.47
As(+), cm2:	10.71	10.71	10.71	10.71	12.20	14.28	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.99	7.96	7.78	7.60	7.41	7.10	7.20	7.40	7.60	7.79	7.82
Tu, ton-m:	1.01	1.01	1.01	1.01	1.01	0.85	0.77	0.77	0.77	0.77	0.77
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

8-E 11 #3@ 15 13 #3@ 30 11 #3@ 15 8-F

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:49 a.m. 05/08/2010

BEAM: 8(F-F1) FLOOR: 4

Length: L = 1.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 1.80 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.18	0.36	0.54	0.72	0.90	1.08	1.26	1.44	1.62	1.80
Mu(-), ton-m:	-30.01	-24.51	-19.05	-13.63	-8.78	-8.78	-15.43	-22.48	-29.58	-36.71	-43.88
Mu(+), ton-m:	26.12	19.29	12.42	8.78	8.78	8.78	8.78	8.78	12.91	18.11	23.27
As(-), cm2:	12.86	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.67	15.87	19.15
As(+), cm2:	11.14	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	14.52	14.52	14.52	14.52	14.54	14.59	14.64	14.66	14.66	14.66	14.66
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	14.59	14.59	14.59	14.59	14.54	14.44	14.34	14.30	14.30	14.30	14.30

DESIGN

8-F 14 #3@ 12.5 8-F1

BEAM: 8(F1-F2) FLOOR: 4

Length: L = 2.10 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-14.70	-11.89	-9.11	-6.36	-3.66	-2.94	-2.94	-4.67	-7.36	-10.08	-12.85
Mu(+), ton-m:	13.12	10.69	8.22	5.72	3.18	2.94	2.94	4.24	6.80	9.32	11.80
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	4.49	4.49	4.49	4.49	4.45	4.41	4.39	4.43	4.43	4.43	4.43
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8-F1 14 #3@ 15 8-F2

BEAM: 8(F2-F3) FLOOR: 4

Length: L = 2.10 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-13.54	-10.61	-7.72	-4.87	-2.92	-2.92	-3.69	-6.37	-9.08	-11.82	-14.60
Mu(+), ton-m:	11.56	9.11	6.62	4.10	2.92	2.92	3.46	6.16	8.83	11.46	14.05
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	4.72	4.72	4.72	4.72	4.68	4.64	4.60	4.57	4.57	4.57	4.57
Tu, ton-m:	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8-F2 14 #3@ 15 8-F3

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:49 a.m. 05/08/2010

BEAM: 8(F3-G) FLOOR: 4

Length: L = 2.20 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.20 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.22	0.44	0.66	0.88	1.10	1.32	1.54	1.76	1.98	2.20
Mu(-), ton-m:	-45.01	-37.25	-29.53	-21.87	-14.26	-9.00	-9.00	-13.26	-19.27	-25.34	-31.46
Mu(+), ton-m:	27.33	21.69	16.00	10.26	9.00	9.00	9.00	9.00	15.63	22.96	30.25
As(-), cm2:	19.67	16.11	12.65	10.71	10.71	10.71	10.71	10.71	10.71	10.80	13.51
As(+), cm2:	11.67	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.97
vu, Kg/cm2:	12.88	12.88	12.88	12.87	12.81	12.76	12.70	12.64	12.64	12.64	12.64
Tu, ton-m:	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8-F3 15 #3@ 15 8-G

BEAM: 8(G-H) FLOOR: 4

Length: L = 7.20 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 6.95 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.70	1.39	2.09	2.78	3.48	4.17	4.87	5.56	6.26	6.95
Mu(-), ton-m:	-46.00	-29.64	-13.83	-10.80	-10.80	-10.80	-10.80	-10.80	-18.58	-36.01	-54.00
Mu(+), ton-m:	15.33	10.80	10.80	13.94	20.53	30.79	26.38	18.15	10.80	10.80	18.00
As(-), cm2:	20.13	12.69	10.71	10.71	10.71	10.71	10.71	10.71	10.71	15.55	23.89
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	13.21	11.25	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.54	7.53	7.34	7.15	6.96	6.77	7.49	7.67	7.85	8.02	8.04
Tu, ton-m:	0.75	0.75	0.75	0.75	0.75	0.75	0.98	0.98	0.98	0.98	0.98
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

8-G 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-H

BEAM: 8(H-I) FLOOR: 4

Length: L = 7.10 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 6.60 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.91	1.57	2.23	2.89	3.55	4.21	4.87	5.53	6.19	6.85
Mu(-), ton-m:	-50.91	-34.35	-18.27	-10.19	-10.19	-10.19	-10.19	-10.19	-18.32	-34.39	-50.96
Mu(+), ton-m:	16.97	10.19	10.19	14.61	21.02	27.05	21.05	14.64	10.19	10.19	16.99
As(-), cm2:	22.43	14.80	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.82	22.46
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	11.55	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.78	7.78	7.61	7.44	7.28	7.11	7.28	7.44	7.61	7.78	7.78
Tu, ton-m:	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

8-H 11 #3@ 15 10 #3@ 30 11 #3@ 15 8-I

BEAM: 8(I-J) FLOOR: 4

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-52.39	-35.20	-18.68	-10.78	-10.78	-10.78	-10.78	-10.78	-17.69	-35.42	-53.92
Mu(+), ton-m:	17.46	10.78	10.78	13.73	20.67	27.97	24.75	16.56	10.78	10.78	17.97
As(-), cm2:	23.13	15.19	10.71	10.71	10.71	10.71	10.71	10.71	10.71	15.29	23.86
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	11.96	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.75	7.73	7.52	7.30	7.09	6.87	7.67	7.85	8.03	8.20	8.22
Tu, ton-m:	0.84	0.84	0.84	0.84	0.84	0.84	0.96	0.96	0.96	0.96	0.96
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

8-I 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-J

BEAM: 8(J-K) FLOOR: 4

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-53.24	-35.46	-18.23	-10.65	-10.65	-10.65	-10.65	-10.65	-18.05	-35.24	-52.97
Mu(+), ton-m:	17.75	10.65	10.65	15.02	22.85	30.13	22.85	15.06	10.65	10.65	17.66
As(-), cm2:	23.54	15.30	10.71	10.71	10.71	10.71	10.71	10.71	10.71	15.20	23.41
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.91	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.96	7.94	7.76	7.59	7.41	7.23	7.39	7.57	7.75	7.93	7.94
Tu, ton-m:	0.95	0.95	0.95	0.95	0.95	0.95	0.97	0.97	0.97	0.97	0.97
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

8-J 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-K

BEAM: 8(K-L) FLOOR: 4

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-51.57	-34.22	-17.42	-11.79	-11.79	-11.79	-11.79	-11.79	-22.29	-40.34	-58.94
Mu(+), ton-m:	17.19	11.79	11.79	15.15	22.18	29.58	21.93	13.72	11.79	11.79	19.65
As(-), cm2:	22.74	14.74	10.71	10.71	10.71	10.71	10.71	10.71	10.71	17.52	26.27
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.67	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	8.00	7.98	7.80	7.62	7.45	7.27	7.87	8.05	8.22	8.40	8.42
Tu, ton-m:	0.97	0.97	0.97	0.97	0.97	0.97	0.99	0.99	0.99	0.99	0.99
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

8-K 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-L

BEAM: 8(L-L1) FLOOR: 4

Length: L = 3.75 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 3.50 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.60	0.95	1.30	1.65	2.00	2.35	2.70	3.05	3.40	3.75
Mu(-), ton-m:	-69.83	-62.21	-54.74	-47.40	-40.21	-33.16	-26.24	-19.47	-12.84	-6.35	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	31.62	27.86	24.25	20.79	17.46	14.27	11.19	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.63	6.63	6.61	6.49	6.36	6.23	6.11	5.98	5.85	5.72	5.60
Tu, ton-m:	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-L 12 #3@ 30 8-L1

BEAM: 9'(F-F1) FLOOR: 5

Length: L = 1.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 1.80 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.18	0.36	0.54	0.72	0.90	1.08	1.26	1.44	1.62	1.80
Mu(-), ton-m:	-14.81	-12.02	-9.24	-6.48	-4.64	-4.64	-4.64	-8.95	-13.69	-18.44	-23.21
Mu(+), ton-m:	23.86	19.22	14.56	9.88	5.20	4.64	4.64	4.64	7.13	9.81	12.48
As(-), cm2:	6.34	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.85	7.97	10.16
As(+), cm2:	10.47	8.33	6.23	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	20.68	20.68	20.68	20.68	20.70	20.74	20.77	20.79	20.79	20.79	20.79
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F 12 #3@ 15 9'-F1

BEAM: 9'(F1-F2) FLOOR: 5

Length: L = 2.10 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-5.90	-4.73	-3.58	-2.45	-1.34	-1.23	-1.23	-2.31	-3.57	-4.85	-6.15
Mu(+), ton-m:	6.00	4.87	3.72	2.55	1.36	1.23	1.23	1.89	2.93	3.95	4.95
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	4.08	4.08	4.08	4.08	4.12	4.16	4.20	4.24	4.24	4.24	4.24
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F1 14 #3@ 15 9'-F2

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:49 a.m. 05/08/2010

BEAM: 9'(F2-F3) FLOOR: 5

Length: L = 2.10 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-5.53	-4.35	-3.19	-2.05	-1.35	-1.35	-1.57	-2.85	-4.14	-5.44	-6.77
Mu(+), ton-m:	5.66	4.50	3.32	2.13	1.35	1.35	1.35	2.33	3.38	4.41	5.42
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	4.20	4.20	4.20	4.20	4.24	4.28	4.32	4.36	4.36	4.36	4.36
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F2 14 #3@ 15 9'-F3

BEAM: 9'(F3-G) FLOOR: 5

Length: L = 2.20 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.20 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.22	0.44	0.66	0.88	1.10	1.32	1.54	1.76	1.98	2.20
Mu(-), ton-m:	-27.29	-21.71	-16.15	-10.61	-5.46	-5.46	-5.46	-6.05	-8.77	-11.51	-14.27
Mu(+), ton-m:	12.41	9.83	7.24	5.46	5.46	5.46	5.88	11.34	16.78	22.19	27.59
As(-), cm2:	12.08	9.47	6.94	5.36	5.36	5.36	5.36	5.36	5.36	5.36	6.10
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	7.22	9.69	12.23
vu, Kg/cm2:	20.42	20.42	20.42	20.41	20.37	20.33	20.28	20.24	20.24	20.24	20.24
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F3 15 #3@ 15 9'-G

BEAM: 9(B'-C) FLOOR: 5

Length: L = 3.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 3.60 m c = 0.20 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.36	0.72	1.08	1.44	1.80	2.16	2.52	2.88	3.24	3.60
Mu(-), ton-m:	0.00	-6.45	-13.06	-19.81	-26.71	-33.76	-40.96	-48.31	-55.81	-63.46	-71.25
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	11.40	14.54	17.81	21.21	24.76	28.47	32.33
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.53	5.66	5.79	5.92	6.05	6.18	6.31	6.44	6.57	6.60	6.60
Tu, ton-m:	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-B' 12 #3@ 30 9-C

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:49 a.m. 05/08/2010

BEAM: 9(C-D) FLOOR: 5

Length: L = 7.50 m a = 0.20 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.05 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.20	0.91	1.61	2.32	3.02	3.73	4.43	5.14	5.84	6.55	7.25
Mu(-), ton-m:	-58.82	-40.25	-22.23	-11.76	-11.76	-11.76	-11.76	-11.76	-12.34	-27.54	-43.31
Mu(+), ton-m:	19.61	11.76	11.76	11.76	20.28	29.10	23.13	16.48	11.76	11.76	14.44
As(-), cm2:	26.21	17.48	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.77	18.89
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.46	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	8.42	8.41	8.23	8.05	7.86	7.68	6.93	7.11	7.29	7.46	7.48
Tu, ton-m:	0.98	0.98	0.98	0.98	0.98	0.98	0.96	0.96	0.96	0.96	0.96
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-C 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-D

BEAM: 9(D-E) FLOOR: 5

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-50.87	-33.71	-17.09	-10.17	-10.17	-10.17	-10.17	-10.17	-15.75	-31.94	-48.69
Mu(+), ton-m:	16.96	10.17	10.17	13.56	21.79	29.48	22.15	14.34	10.17	10.17	16.23
As(-), cm2:	22.42	14.51	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.72	21.39
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.63	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.73	7.72	7.54	7.36	7.18	7.01	7.04	7.22	7.40	7.57	7.59
Tu, ton-m:	1.02	1.02	1.02	1.02	1.02	1.02	0.98	0.98	0.98	0.98	0.98
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-D 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-E

BEAM: 9(E-F) FLOOR: 5

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.25 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.98	1.70	2.43	3.15	3.88	4.60	5.33	6.05	6.78	7.50
Mu(-), ton-m:	-49.92	-32.21	-15.09	-10.21	-10.21	-10.21	-10.21	-10.21	-16.37	-33.39	-51.03
Mu(+), ton-m:	16.64	10.21	10.21	18.80	27.15	31.75	21.15	12.90	10.21	10.21	17.01
As(-), cm2:	21.97	13.84	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.37	22.49
As(+), cm2:	10.71	10.71	10.71	10.71	11.59	13.64	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.62	7.60	7.41	7.23	7.05	6.87	7.03	7.23	7.43	7.62	7.65
Tu, ton-m:	1.06	1.06	1.06	1.06	1.06	0.91	0.83	0.83	0.83	0.83	0.83
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-E 11 #3@ 15 13 #3@ 30 11 #3@ 15 9-F

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:49 a.m. 05/08/2010

BEAM: 9(F-F1) FLOOR: 5

Length: L = 1.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 1.80 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.18	0.36	0.54	0.72	0.90	1.08	1.26	1.44	1.62	1.80
Mu(-), ton-m:	-25.05	-20.79	-16.57	-12.38	-8.24	-5.01	-8.13	-11.94	-15.78	-19.65	-23.57
Mu(+), ton-m:	13.90	10.32	6.70	5.01	5.01	5.01	5.01	5.01	7.98	11.94	15.86
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	8.19	8.19	8.19	8.19	8.17	8.12	8.07	8.05	8.05	8.05	8.05
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9-F 12 #3@ 15 9-F1

BEAM: 9(F1-F2) FLOOR: 5

Length: L = 2.10 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-12.61	-11.29	-10.01	-8.77	-7.57	-6.40	-5.27	-4.18	-3.12	-2.52	-2.52
Mu(+), ton-m:	8.08	7.52	6.93	6.31	5.64	4.94	4.21	3.43	2.62	2.52	2.52
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.55	2.55	2.55	2.55	2.51	2.47	2.43	2.39	2.39	2.39	2.39
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9-F1 14 #3@ 15 9-F2

BEAM: 9(F2-F3) FLOOR: 5

Length: L = 2.10 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-3.30	-3.30	-3.30	-4.72	-6.30	-7.91	-9.56	-11.24	-12.96	-14.72	-16.52
Mu(+), ton-m:	3.30	3.30	3.30	3.35	4.20	5.00	5.77	6.50	7.20	7.86	8.48
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	3.25	3.25	3.25	3.25	3.29	3.33	3.38	3.42	3.42	3.42	3.42
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9-F2 14 #3@ 15 9-F3

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:50 a.m. 05/08/2010

BEAM: 9(F3-G) FLOOR: 5

Length: L = 2.20 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.20 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.22	0.44	0.66	0.88	1.10	1.32	1.54	1.76	1.98	2.20
Mu(-), ton-m:	-29.07	-23.79	-18.56	-13.38	-8.25	-5.81	-7.53	-11.80	-16.12	-20.49	-24.91
Mu(+), ton-m:	16.94	12.99	9.00	5.81	5.81	5.81	5.81	6.80	11.71	16.56	21.36
As(-), cm2:	12.44	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	8.54	8.54	8.54	8.53	8.47	8.42	8.36	8.30	8.30	8.30	8.30
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9-F3 15 #3@ 15 9-G

BEAM: 9(G-H) FLOOR: 5

Length: L = 7.20 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 6.95 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.70	1.39	2.09	2.78	3.48	4.17	4.87	5.56	6.26	6.95
Mu(-), ton-m:	-48.09	-31.52	-15.50	-9.62	-9.62	-9.62	-9.62	-9.62	-14.96	-31.11	-47.80
Mu(+), ton-m:	16.03	9.62	9.62	12.35	19.66	29.82	26.00	18.55	10.54	9.62	15.93
As(-), cm2:	21.11	13.53	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.35	20.97
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.78	11.08	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.43	7.42	7.23	7.04	6.85	6.66	6.88	7.06	7.23	7.41	7.42
Tu, ton-m:	0.82	0.82	0.82	0.82	0.82	0.82	1.01	1.01	1.01	1.01	1.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-G 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-H

BEAM: 9(H-I) FLOOR: 5

Length: L = 7.10 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 6.60 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.91	1.57	2.23	2.89	3.55	4.21	4.87	5.53	6.19	6.85
Mu(-), ton-m:	-47.99	-32.13	-16.76	-9.60	-9.60	-9.60	-9.60	-9.60	-16.57	-31.86	-47.63
Mu(+), ton-m:	16.00	9.60	9.60	13.46	20.12	26.36	20.28	13.71	9.60	9.60	15.88
As(-), cm2:	21.06	13.81	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.68	20.89
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	11.25	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.49	7.48	7.32	7.15	6.98	6.82	6.95	7.12	7.29	7.45	7.46
Tu, ton-m:	0.98	0.98	0.98	0.98	0.98	0.98	0.97	0.97	0.97	0.97	0.97
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-H 11 #3@ 15 10 #3@ 30 11 #3@ 15 9-I

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:50 a.m. 05/08/2010

BEAM: 9(I-J) FLOOR: 5

Length:	L = 7.50 m		a = 0.25 m	Section:	b = 50.0 cm		Sec:	S50X70		
	Lu = 7.00 m		c = 0.25 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-50.01	-33.61	-17.75	-10.11	-10.11	-10.11	-10.11	-10.11	-15.88	-32.79	-50.53
Mu(+), ton-m:	16.67	10.11	10.11	12.33	19.72	27.47	24.19	15.88	10.11	10.11	16.84
As(-), cm2:	22.01	14.47	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.10	22.25
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	11.74	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.46	7.44	7.26	7.09	6.91	6.73	7.36	7.54	7.71	7.89	7.91
Tu, ton-m:	0.88	0.88	0.88	0.88	0.88	0.88	0.98	0.98	0.98	0.98	0.98
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-I — 11 #3@ 15 12 #3@ 30 11 #3@ 15 — 9-J

BEAM: 9(J-K) FLOOR: 5

Length:	L = 7.50 m		a = 0.25 m	Section:	b = 50.0 cm		Sec:	S50X70		
	Lu = 7.00 m		c = 0.25 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-51.04	-33.84	-17.19	-10.21	-10.21	-10.21	-10.21	-10.21	-16.25	-32.58	-49.47
Mu(+), ton-m:	17.01	10.21	10.21	13.70	21.81	29.39	22.14	14.35	10.21	10.21	16.49
As(-), cm2:	22.49	14.57	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.01	21.75
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.58	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.74	7.72	7.55	7.37	7.19	7.01	7.08	7.26	7.44	7.62	7.63
Tu, ton-m:	0.93	0.93	0.93	0.93	0.93	0.93	0.94	0.94	0.94	0.94	0.94
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-J — 11 #3@ 15 12 #3@ 30 11 #3@ 15 — 9-K

BEAM: 9(K-L) FLOOR: 5

Length:	L = 7.50 m		a = 0.25 m	Section:	b = 50.0 cm		Sec:	S50X70		
	Lu = 7.05 m		c = 0.20 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.25	0.96	1.66	2.37	3.07	3.78	4.48	5.19	5.89	6.60	7.30
Mu(-), ton-m:	-47.40	-30.84	-14.84	-11.12	-11.12	-11.12	-11.12	-11.12	-20.31	-37.66	-55.58
Mu(+), ton-m:	15.80	11.12	11.12	15.06	22.38	28.96	20.91	12.26	11.12	11.12	18.53
As(-), cm2:	20.78	13.23	10.71	10.71	10.71	10.71	10.71	10.71	10.71	16.30	24.65
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.39	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.63	7.62	7.44	7.26	7.08	6.97	7.53	7.71	7.90	8.08	8.09
Tu, ton-m:	0.90	0.90	0.90	0.90	0.90	0.90	0.88	0.88	0.88	0.88	0.88
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-K — 11 #3@ 15 12 #3@ 30 11 #3@ 15 — 9-L

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:50 a.m. 05/08/2010

BEAM: 9(L-L1) FLOOR: 5

Length:	L = 3.75 m		a = 0.20 m	Section:	b = 50.0 cm		Sec:	S50X70		
	Lu = 3.55 m		c = 0.00 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.20	0.56	0.91	1.27	1.62	1.98	2.33	2.69	3.04	3.40	3.75
Mu(-), ton-m:	-69.56	-61.96	-54.49	-47.17	-40.00	-32.97	-26.08	-19.35	-12.75	-6.30	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	31.49	27.73	24.13	20.68	17.37	14.18	11.12	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.53	6.53	6.51	6.38	6.25	6.12	5.99	5.86	5.73	5.61	5.48
Tu, ton-m:	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-L — 12 #3@ 30 — 9-L1

BEAM: 8'(F-F1) FLOOR: 5

Length:	L = 1.80 m		a = 0.00 m	Section:	b = 40.0 cm		Sec:	S40X70		
	Lu = 1.80 m		c = 0.00 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.00	0.18	0.36	0.54	0.72	0.90	1.08	1.26	1.44	1.62	1.80
Mu(-), ton-m:	-13.61	-11.12	-8.67	-6.25	-4.49	-4.49	-4.49	-6.96	-12.09	-17.25	-22.44
Mu(+), ton-m:	28.02	23.12	18.19	13.22	8.22	4.49	4.49	4.49	5.38	7.61	9.81
As(-), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	9.59
As(+), cm2:	12.09	9.89	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
vu, Kg/cm2:	14.29	14.29	14.29	14.29	14.32	14.37	14.42	14.44	14.44	14.44	14.44
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F — 12 #3@ 15 — 8'-F1

BEAM: 8'(F1-F2) FLOOR: 5

Length:	L = 2.10 m		a = 0.00 m	Section:	b = 40.0 cm		Sec:	S40X70		
	Lu = 2.10 m		c = 0.00 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-11.09	-9.95	-8.83	-7.74	-6.68	-5.65	-4.65	-3.68	-2.73	-2.22	-2.22
Mu(+), ton-m:	3.71	3.58	3.41	3.21	2.98	2.73	2.44	2.22	2.22	2.22	2.22
As(-), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
As(+), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
vu, Kg/cm2:	3.10	3.10	3.10	3.10	3.06	3.02	2.98	2.94	2.94	2.94	2.94
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F1 — 14 #3@ 15 — 8'-F2

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:50 a.m. 05/08/2010

BEAM: 8'(F2-F3) FLOOR: 5

Length: L = 2.10 m a = 0.00 m Section: b = 40.0 cm Sec: S40X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-2.53	-2.53	-2.81	-3.94	-5.09	-6.28	-7.49	-8.73	-10.00	-11.31	-12.64
Mu(+), ton-m:	2.53	2.53	2.53	2.53	2.81	3.39	3.94	4.46	4.95	5.42	5.85
As(-), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
As(+), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
vu, Kg/cm2:	3.05	3.05	3.05	3.05	3.09	3.13	3.18	3.22	3.22	3.22	3.22
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F2 14 #3@ 15 8'-F3

BEAM: 8'(F3-G) FLOOR: 5

Length: L = 2.20 m a = 0.00 m Section: b = 40.0 cm Sec: S40X70
Lu = 2.20 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.22	0.44	0.66	0.88	1.10	1.32	1.54	1.76	1.98	2.20
Mu(-), ton-m:	-25.66	-19.80	-13.99	-8.22	-5.13	-5.13	-5.13	-7.02	-10.00	-13.03	-16.10
Mu(+), ton-m:	12.58	9.92	7.21	5.13	5.13	5.13	8.82	14.41	19.96	25.45	30.91
As(-), cm2:	11.03	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
As(+), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	10.93	13.39
vu, Kg/cm2:	13.14	13.14	13.14	13.14	13.08	13.02	12.96	12.90	12.89	12.89	12.89
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F3 15 #3@ 15 8'-G

BEAM: 8(B'-C) FLOOR: 5

Length: L = 3.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 3.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.36	0.71	1.07	1.42	1.78	2.13	2.49	2.84	3.20	3.55
Mu(-), ton-m:	0.00	-6.51	-13.17	-19.98	-26.93	-34.02	-41.26	-48.64	-56.17	-63.84	-71.66
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	11.49	14.65	17.94	21.37	24.93	28.65	32.54
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.66	5.79	5.92	6.05	6.18	6.31	6.43	6.56	6.69	6.72	6.72
Tu, ton-m:	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-B' 12 #3@ 30 8-C

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:50 a.m. 05/08/2010

BEAM: 8(C-D) FLOOR: 5

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-54.60	-36.78	-19.51	-10.92	-10.92	-10.92	-10.92	-10.92	-16.28	-32.73	-49.73
Mu(+), ton-m:	18.20	10.92	10.92	13.09	21.67	29.68	21.78	13.97	10.92	10.92	16.58
As(-), cm2:	24.18	15.90	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.08	21.88
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.72	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	8.10	8.09	7.91	7.73	7.55	7.38	7.28	7.46	7.64	7.81	7.83
Tu, ton-m:	0.92	0.92	0.92	0.92	0.92	0.92	0.90	0.90	0.90	0.90	0.90
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

8-C 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-D

BEAM: 8(D-E) FLOOR: 5

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-51.36	-33.95	-17.10	-10.27	-10.27	-10.27	-10.27	-10.27	-16.65	-33.38	-50.65
Mu(+), ton-m:	17.12	10.27	10.27	14.08	22.40	30.23	22.46	14.27	10.27	10.27	16.88
As(-), cm2:	22.64	14.62	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.37	22.31
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.96	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.84	7.83	7.65	7.47	7.29	7.12	7.25	7.43	7.61	7.78	7.80
Tu, ton-m:	0.90	0.90	0.90	0.90	0.90	0.90	0.87	0.87	0.87	0.87	0.87
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

8-D 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-E

BEAM: 8(E-F) FLOOR: 5

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.25 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.98	1.70	2.43	3.15	3.88	4.60	5.33	6.05	6.78	7.50
Mu(-), ton-m:	-52.20	-33.85	-16.09	-10.44	-10.44	-10.44	-10.44	-10.44	-15.74	-32.89	-50.65
Mu(+), ton-m:	17.40	10.44	10.44	18.93	27.78	32.76	21.98	13.74	10.44	10.44	16.88
As(-), cm2:	23.04	14.58	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.15	22.31
As(+), cm2:	10.71	10.71	10.71	10.71	11.87	14.09	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.87	7.85	7.67	7.48	7.30	7.01	7.12	7.32	7.51	7.71	7.73
Tu, ton-m:	0.97	0.97	0.97	0.97	0.97	0.83	0.76	0.76	0.76	0.76	0.76
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

8-E 11 #3@ 15 13 #3@ 30 11 #3@ 15 8-F

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:50 a.m. 05/08/2010

BEAM: 8(F-F1) FLOOR: 5

Length: L = 1.80 m Lu = 1.80 m a = 0.00 m c = 0.00 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.18	0.36	0.54	0.72	0.90	1.08	1.26	1.44	1.62	1.80
Mu(-), ton-m:	-22.68	-18.65	-14.67	-10.72	-7.39	-8.26	-13.92	-19.62	-25.36	-31.14	-36.95
Mu(+), ton-m:	19.50	14.02	8.51	7.39	7.39	7.39	7.39	7.39	8.47	12.20	15.89
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.81	13.36	15.98
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	11.98	11.98	11.98	11.98	12.00	12.05	12.10	12.12	12.12	12.12	12.12
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8-F 12 #3@ 15 8-F1

BEAM: 8(F1-F2) FLOOR: 5

Length: L = 2.10 m Lu = 2.10 m a = 0.00 m c = 0.00 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-12.46	-10.08	-7.74	-5.43	-3.17	-2.49	-2.49	-3.89	-6.04	-8.24	-10.47
Mu(+), ton-m:	10.18	8.28	6.34	4.37	2.49	2.49	2.49	3.41	5.53	7.62	9.66
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	3.82	3.82	3.82	3.82	3.78	3.74	3.70	3.66	3.66	3.66	3.66
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8-F1 14 #3@ 15 8-F2

BEAM: 8(F2-F3) FLOOR: 5

Length: L = 2.10 m Lu = 2.10 m a = 0.00 m c = 0.00 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-11.03	-8.65	-6.30	-4.00	-2.50	-2.50	-3.29	-5.54	-7.83	-10.16	-12.52
Mu(+), ton-m:	9.43	7.41	5.34	3.24	2.50	2.50	2.70	4.86	6.98	9.06	11.11
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	3.75	3.75	3.75	3.75	3.71	3.67	3.69	3.73	3.73	3.73	3.73
Tu, ton-m:	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8-F2 14 #3@ 15 8-F3

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:50 a.m. 05/08/2010

BEAM: 8(F3-G) FLOOR: 5

Length: L = 2.20 m Lu = 2.20 m a = 0.00 m c = 0.00 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.22	0.44	0.66	0.88	1.10	1.32	1.54	1.76	1.98	2.20
Mu(-), ton-m:	-39.56	-32.89	-26.27	-19.70	-13.19	-7.91	-7.91	-10.65	-15.34	-20.09	-24.90
Mu(+), ton-m:	20.74	16.41	12.04	7.91	7.91	7.91	7.91	7.91	12.34	18.58	24.78
As(-), cm2:	17.17	14.15	11.20	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	11.27	11.27	11.27	11.27	11.21	11.15	11.09	11.04	11.03	11.03	11.03
Tu, ton-m:	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8-F3 15 #3@ 15 8-G

BEAM: 8(G-H) FLOOR: 5

Length: L = 7.20 m Lu = 6.95 m a = 0.00 m c = 0.25 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.70	1.39	2.09	2.78	3.48	4.17	4.87	5.56	6.26	6.95
Mu(-), ton-m:	-46.11	-29.78	-14.01	-10.51	-10.51	-10.51	-10.51	-10.51	-17.56	-34.78	-52.56
Mu(+), ton-m:	15.37	10.51	10.51	13.92	20.72	30.60	26.08	17.82	10.51	10.51	17.52
As(-), cm2:	20.18	12.76	10.71	10.71	10.71	10.71	10.71	10.71	10.71	15.00	23.21
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	13.12	11.12	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.50	7.49	7.30	7.11	6.92	6.73	7.39	7.57	7.75	7.92	7.94
Tu, ton-m:	0.74	0.74	0.74	0.74	0.74	0.74	0.98	0.98	0.98	0.98	0.98
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

8-G 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-H

BEAM: 8(H-I) FLOOR: 5

Length: L = 7.10 m Lu = 6.60 m a = 0.25 m c = 0.25 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.91	1.57	2.23	2.89	3.55	4.21	4.87	5.53	6.19	6.85
Mu(-), ton-m:	-48.90	-32.74	-17.07	-9.78	-9.78	-9.78	-9.78	-9.78	-17.09	-32.74	-48.88
Mu(+), ton-m:	16.30	9.78	9.78	13.69	20.54	27.03	20.64	13.83	9.78	9.78	16.29
As(-), cm2:	21.49	14.08	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.08	21.48
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	11.54	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.64	7.64	7.47	7.30	7.14	6.97	7.13	7.30	7.46	7.63	7.63
Tu, ton-m:	0.92	0.92	0.92	0.92	0.92	0.92	0.93	0.93	0.93	0.93	0.93
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

8-H 11 #3@ 15 10 #3@ 30 11 #3@ 15 8-I

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:50 a.m. 05/08/2010

BEAM: 8(I-J) FLOOR: 5

Length: L = 7.50 m Lu = 7.00 m a = 0.25 m c = 0.25 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-50.60	-33.77	-17.60	-10.38	-10.38	-10.38	-10.38	-10.38	-16.51	-33.78	-51.88
Mu(+), ton-m:	16.87	10.38	10.38	12.97	20.31	27.90	24.42	15.89	10.38	10.38	17.29
As(-), cm2:	22.29	14.54	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.55	22.89
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	11.92	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.63	7.61	7.40	7.18	6.96	6.75	7.53	7.71	7.89	8.07	8.08
Tu, ton-m:	0.84	0.84	0.84	0.84	0.84	0.84	0.96	0.96	0.96	0.96	0.96
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

8-I 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-J

BEAM: 8(J-K) FLOOR: 5

Length: L = 7.50 m Lu = 7.00 m a = 0.25 m c = 0.25 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-51.46	-34.04	-17.17	-10.29	-10.29	-10.29	-10.29	-10.29	-17.04	-33.86	-51.23
Mu(+), ton-m:	17.15	10.29	10.29	14.21	22.41	30.07	22.47	14.31	10.29	10.29	17.08
As(-), cm2:	22.69	14.66	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.58	22.58
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.89	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.84	7.82	7.65	7.47	7.29	7.11	7.28	7.45	7.63	7.81	7.82
Tu, ton-m:	0.94	0.94	0.94	0.94	0.94	0.94	0.97	0.97	0.97	0.97	0.97
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

8-J 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-K

BEAM: 8(K-L) FLOOR: 5

Length: L = 7.50 m Lu = 7.00 m a = 0.25 m c = 0.25 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-49.99	-32.92	-16.40	-10.93	-10.93	-10.93	-10.93	-10.93	-19.44	-36.76	-54.63
Mu(+), ton-m:	16.66	10.93	10.93	14.35	22.07	29.77	21.84	13.35	10.93	10.93	18.21
As(-), cm2:	22.00	14.16	10.71	10.71	10.71	10.71	10.71	10.71	10.71	15.89	24.20
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.75	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.83	7.82	7.64	7.46	7.28	7.11	7.55	7.73	7.91	8.09	8.10
Tu, ton-m:	0.97	0.97	0.97	0.97	0.97	0.97	0.99	0.99	0.99	0.99	0.99
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

8-K 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-L

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:50 a.m. 05/08/2010

BEAM: 8(L-L1) FLOOR: 5

Length: L = 3.75 m Lu = 3.50 m a = 0.25 m c = 0.00 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.60	0.95	1.30	1.65	2.00	2.35	2.70	3.05	3.40	3.75
Mu(-), ton-m:	-69.84	-62.22	-54.75	-47.41	-40.22	-33.16	-26.25	-19.47	-12.84	-6.35	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	31.63	27.86	24.25	20.79	17.46	14.27	11.20	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.64	6.64	6.61	6.49	6.36	6.23	6.11	5.98	5.85	5.73	5.60
Tu, ton-m:	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-L 12 #3@ 30 8-L1

BEAM: 9'(F-F1) FLOOR: 6

Length: L = 1.80 m Lu = 1.80 m a = 0.00 m c = 0.00 m Section: b = 25.0 cm h = 70.0 cm Sec: S25X70 Mat: RConcrete2

X, m:	0.00	0.18	0.36	0.54	0.72	0.90	1.08	1.26	1.44	1.62	1.80
Mu(-), ton-m:	-8.75	-7.10	-5.47	-3.85	-3.75	-3.75	-3.75	-7.29	-11.09	-14.91	-18.74
Mu(+), ton-m:	18.96	15.25	11.53	7.79	4.04	3.75	3.75	3.75	4.05	5.59	7.12
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	6.39	8.11
As(+), cm2:	8.21	6.54	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	17.33	17.33	17.33	17.33	17.35	17.38	17.42	17.44	17.44	17.44	17.44
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F 12 #3@ 15 9'-F1

BEAM: 9'(F1-F2) FLOOR: 6

Length: L = 2.10 m Lu = 2.10 m a = 0.00 m c = 0.00 m Section: b = 25.0 cm h = 70.0 cm Sec: S25X70 Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-4.67	-3.75	-2.84	-1.95	-1.08	-0.98	-0.98	-1.84	-2.84	-3.86	-4.89
Mu(+), ton-m:	4.63	3.76	2.88	1.97	1.04	0.98	0.98	1.42	2.21	2.99	3.75
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	3.19	3.19	3.19	3.19	3.23	3.28	3.32	3.36	3.36	3.36	3.36
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F1 14 #3@ 15 9'-F2

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:50 a.m. 05/08/2010

BEAM: 9'(F2-F3) FLOOR: 6

Length: L = 2.10 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-4.27	-3.35	-2.45	-1.57	-1.11	-1.11	-1.33	-2.36	-3.40	-4.46	-5.53
Mu(+), ton-m:	4.42	3.50	2.57	1.62	1.11	1.11	1.11	1.77	2.56	3.33	4.08
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	3.39	3.39	3.39	3.39	3.43	3.47	3.51	3.55	3.55	3.55	3.55
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F2 14 #3@ 15 9'-F3

BEAM: 9'(F3-G) FLOOR: 6

Length: L = 2.20 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.20 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.22	0.44	0.66	0.88	1.10	1.32	1.54	1.76	1.98	2.20
Mu(-), ton-m:	-23.37	-18.63	-13.90	-9.19	-4.67	-4.67	-4.67	-4.67	-5.58	-7.35	-9.15
Mu(+), ton-m:	7.89	6.28	4.67	4.67	4.67	4.67	4.81	9.43	14.04	18.62	23.18
As(-), cm2:	10.24	8.06	5.94	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	6.00	8.05	10.15
vu, Kg/cm2:	17.93	17.93	17.93	17.93	17.88	17.84	17.80	17.75	17.75	17.75	17.75
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F3 15 #3@ 15 9'-G

BEAM: 9(B'-C) FLOOR: 6

Length: L = 3.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 3.60 m c = 0.20 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.36	0.72	1.08	1.44	1.80	2.16	2.52	2.88	3.24	3.60
Mu(-), ton-m:	0.00	-6.45	-13.05	-19.80	-26.70	-33.75	-40.94	-48.29	-55.79	-63.44	-71.22
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	11.39	14.53	17.80	21.20	24.75	28.45	32.32
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.53	5.66	5.79	5.92	6.05	6.18	6.31	6.44	6.57	6.60	6.60
Tu, ton-m:	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-B' 12 #3@ 30 9-C

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:50 a.m. 05/08/2010

BEAM: 9(C-D) FLOOR: 6

Length: L = 7.50 m a = 0.20 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.05 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.20	0.91	1.61	2.32	3.02	3.73	4.43	5.14	5.84	6.55	7.25
Mu(-), ton-m:	-57.90	-39.57	-21.80	-11.58	-11.58	-11.58	-11.58	-11.58	-11.58	-25.13	-40.16
Mu(+), ton-m:	19.30	11.58	11.58	11.58	19.02	28.57	22.54	15.65	11.58	11.58	13.39
As(-), cm2:	25.76	17.17	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	17.44
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.22	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	8.41	8.39	8.21	8.03	7.85	7.67	6.75	6.93	7.11	7.29	7.30
Tu, ton-m:	0.96	0.96	0.96	0.96	0.96	0.96	0.95	0.95	0.95	0.95	0.95
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-C 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-D

BEAM: 9(D-E) FLOOR: 6

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-48.58	-31.86	-15.69	-9.72	-9.72	-9.72	-9.72	-9.72	-14.38	-30.15	-46.47
Mu(+), ton-m:	16.19	9.72	9.72	12.79	21.45	29.55	21.77	13.52	9.72	9.72	15.49
As(-), cm2:	21.34	13.68	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.92	20.35
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.66	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.58	7.56	7.38	7.21	7.03	6.85	6.89	7.07	7.25	7.43	7.44
Tu, ton-m:	1.02	1.02	1.02	1.02	1.02	1.02	0.97	0.97	0.97	0.97	0.97
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-D 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-E

BEAM: 9(E-F) FLOOR: 6

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.25 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.98	1.70	2.43	3.15	3.88	4.60	5.33	6.05	6.78	7.50
Mu(-), ton-m:	-48.18	-30.77	-13.97	-10.07	-10.07	-10.07	-10.07	-10.07	-16.05	-32.88	-50.33
Mu(+), ton-m:	16.06	10.07	10.07	18.20	26.73	31.51	21.03	12.48	10.07	10.07	16.78
As(-), cm2:	21.15	13.20	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.14	22.16
As(+), cm2:	10.71	10.71	10.71	10.71	11.41	13.53	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.54	7.52	7.33	7.15	6.97	6.81	6.99	7.19	7.38	7.58	7.61
Tu, ton-m:	1.04	1.04	1.04	1.04	1.04	0.90	0.83	0.83	0.83	0.83	0.83
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-E 11 #3@ 15 13 #3@ 30 11 #3@ 15 9-F

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:50 a.m. 05/08/2010

BEAM: 9(F-F1) FLOOR: 6

Length: L = 1.80 m Lu = 1.80 m a = 0.00 m c = 0.00 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.18	0.36	0.54	0.72	0.90	1.08	1.26	1.44	1.62	1.80
Mu(-), ton-m:	-17.96	-14.93	-11.93	-8.97	-6.05	-5.08	-7.82	-10.60	-13.42	-16.28	-19.18
Mu(+), ton-m:	8.09	5.53	3.84	3.84	3.84	3.84	3.84	3.84	5.27	8.01	10.70
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.69	5.69	5.69	5.69	5.67	5.62	5.57	5.55	5.55	5.55	5.55
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9-F 12 #3@ 15 9-F1

BEAM: 9(F1-F2) FLOOR: 6

Length: L = 2.10 m Lu = 2.10 m a = 0.00 m c = 0.00 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-11.00	-9.78	-8.60	-7.45	-6.34	-5.27	-4.24	-3.24	-2.28	-2.20	-2.20
Mu(+), ton-m:	6.05	5.63	5.18	4.69	4.16	3.60	3.00	2.36	2.20	2.20	2.20
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.23	2.23	2.23	2.23	2.19	2.14	2.10	2.06	2.06	2.06	2.06
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9-F1 14 #3@ 15 9-F2

BEAM: 9(F2-F3) FLOOR: 6

Length: L = 2.10 m Lu = 2.10 m a = 0.00 m c = 0.00 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-3.02	-3.02	-3.02	-3.79	-5.29	-6.83	-8.41	-10.03	-11.68	-13.37	-15.10
Mu(+), ton-m:	3.02	3.02	3.02	3.02	3.02	3.69	4.33	4.93	5.49	6.02	6.51
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	3.04	3.04	3.04	3.04	3.08	3.12	3.16	3.20	3.20	3.20	3.20
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9-F2 14 #3@ 15 9-F3

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:50 a.m. 05/08/2010

BEAM: 9(F3-G) FLOOR: 6

Length: L = 2.20 m Lu = 2.20 m a = 0.00 m c = 0.00 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.22	0.44	0.66	0.88	1.10	1.32	1.54	1.76	1.98	2.20
Mu(-), ton-m:	-24.97	-20.62	-16.32	-12.08	-7.90	-4.99	-5.72	-8.87	-12.07	-15.33	-18.64
Mu(+), ton-m:	12.07	9.24	6.35	4.99	4.99	4.99	4.99	4.99	8.32	12.24	16.10
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.15	7.15	7.15	7.15	7.09	7.03	6.98	6.92	6.91	6.91	6.91
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9-F3 15 #3@ 15 9-G

BEAM: 9(G-H) FLOOR: 6

Length: L = 7.20 m Lu = 6.95 m a = 0.00 m c = 0.25 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.70	1.39	2.09	2.78	3.48	4.17	4.87	5.56	6.26	6.95
Mu(-), ton-m:	-47.23	-30.88	-15.09	-9.45	-9.45	-9.45	-9.45	-9.45	-13.62	-29.40	-45.72
Mu(+), ton-m:	15.74	9.45	9.45	11.87	19.54	29.57	25.52	17.85	9.63	9.45	15.24
As(-), cm2:	20.71	13.25	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.59	20.00
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.67	10.88	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.38	7.36	7.18	6.99	6.80	6.61	6.78	6.95	7.13	7.31	7.32
Tu, ton-m:	0.82	0.82	0.82	0.82	0.82	0.82	1.00	1.00	1.00	1.00	1.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-G 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-H

BEAM: 9(H-I) FLOOR: 6

Length: L = 7.10 m Lu = 6.60 m a = 0.25 m c = 0.25 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.91	1.57	2.23	2.89	3.55	4.21	4.87	5.53	6.19	6.85
Mu(-), ton-m:	-45.26	-29.94	-15.12	-9.05	-9.05	-9.05	-9.05	-9.05	-15.04	-29.81	-45.07
Mu(+), ton-m:	15.09	9.05	9.05	12.42	19.60	26.35	19.74	12.62	9.05	9.05	15.02
As(-), cm2:	19.79	12.83	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.77	19.70
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	11.24	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.29	7.29	7.12	6.96	6.79	6.62	6.77	6.94	7.10	7.27	7.28
Tu, ton-m:	0.97	0.97	0.97	0.97	0.97	0.97	0.96	0.96	0.96	0.96	0.96
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-H 11 #3@ 15 10 #3@ 30 11 #3@ 15 9-I

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:50 a.m. 05/08/2010

BEAM: 9(I-J) FLOOR: 6

Length: L = 7.50 m Lu = 7.00 m a = 0.25 m c = 0.25 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-47.51	-31.60	-16.25	-9.61	-9.61	-9.61	-9.61	-9.61	-14.46	-30.81	-48.06
Mu(+), ton-m:	15.84	9.61	9.61	11.36	19.24	27.34	23.70	14.90	9.61	9.61	16.02
As(-), cm2:	20.83	13.57	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.22	21.09
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	11.68	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.29	7.28	7.10	6.92	6.74	6.56	7.20	7.37	7.55	7.73	7.74
Tu, ton-m:	0.87	0.87	0.87	0.87	0.87	0.87	0.98	0.98	0.98	0.98	0.98
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-I 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-J

BEAM: 9(J-K) FLOOR: 6

Length: L = 7.50 m Lu = 7.00 m a = 0.25 m c = 0.25 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-48.53	-31.83	-15.69	-9.71	-9.71	-9.71	-9.71	-9.71	-14.76	-30.60	-46.98
Mu(+), ton-m:	16.18	9.71	9.71	12.72	21.32	29.38	21.64	13.34	9.71	9.71	15.66
As(-), cm2:	21.31	13.67	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.12	20.59
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.58	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.57	7.56	7.38	7.20	7.02	6.85	6.92	7.10	7.27	7.45	7.47
Tu, ton-m:	0.93	0.93	0.93	0.93	0.93	0.93	0.94	0.94	0.94	0.94	0.94
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-J 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-K

BEAM: 9(K-L) FLOOR: 6

Length: L = 7.50 m Lu = 7.05 m a = 0.25 m c = 0.20 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.96	1.66	2.37	3.07	3.78	4.48	5.19	5.89	6.60	7.30
Mu(-), ton-m:	-44.60	-28.61	-13.17	-10.66	-10.66	-10.66	-10.66	-10.66	-18.93	-35.83	-53.29
Mu(+), ton-m:	14.87	10.66	10.66	14.15	21.94	28.93	20.32	11.11	10.66	10.66	17.76
As(-), cm2:	19.48	12.24	10.71	10.71	10.71	10.71	10.71	10.71	10.71	15.47	23.56
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.38	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.46	7.44	7.26	7.08	6.90	6.80	7.39	7.57	7.76	7.94	7.95
Tu, ton-m:	0.90	0.90	0.90	0.90	0.90	0.90	0.88	0.88	0.88	0.88	0.88
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-K 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-L

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:50 a.m. 05/08/2010

BEAM: 9(L-L1) FLOOR: 6

Length: L = 3.75 m Lu = 3.55 m a = 0.20 m c = 0.00 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.20	0.56	0.91	1.27	1.62	1.98	2.33	2.69	3.04	3.40	3.75
Mu(-), ton-m:	-69.55	-61.95	-54.49	-47.17	-39.99	-32.96	-26.08	-19.34	-12.75	-6.30	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	31.48	27.73	24.13	20.68	17.36	14.18	11.12	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.53	6.53	6.51	6.38	6.25	6.12	5.99	5.86	5.73	5.61	5.48
Tu, ton-m:	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-L 12 #3@ 30 9-L1

BEAM: 8'(F-F1) FLOOR: 6

Length: L = 1.80 m Lu = 1.80 m a = 0.00 m c = 0.00 m Section: b = 40.0 cm h = 70.0 cm Sec: S40X70 Mat: RConcrete2

X, m:	0.00	0.18	0.36	0.54	0.72	0.90	1.08	1.26	1.44	1.62	1.80
Mu(-), ton-m:	-7.33	-5.89	-4.49	-3.69	-3.69	-3.69	-3.69	-5.83	-10.00	-14.21	-18.44
Mu(+), ton-m:	22.46	18.52	14.54	10.53	6.49	3.69	3.69	3.69	3.69	4.41	6.15
As(-), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
As(+), cm2:	9.60	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
vu, Kg/cm2:	12.07	12.07	12.07	12.07	12.09	12.14	12.20	12.22	12.22	12.22	12.22
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F 12 #3@ 15 8'-F1

BEAM: 8'(F1-F2) FLOOR: 6

Length: L = 2.10 m Lu = 2.10 m a = 0.00 m c = 0.00 m Section: b = 40.0 cm h = 70.0 cm Sec: S40X70 Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-9.93	-8.83	-7.76	-6.72	-5.71	-4.72	-3.77	-2.85	-1.99	-1.99	-1.99
Mu(+), ton-m:	3.31	2.36	2.25	2.12	1.99	1.99	1.99	1.99	1.99	1.99	1.99
As(-), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
As(+), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
vu, Kg/cm2:	2.76	2.76	2.76	2.76	2.72	2.68	2.64	2.60	2.60	2.60	2.60
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F1 14 #3@ 15 8'-F2

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:50 a.m. 05/08/2010

BEAM: 8'(F2-F3) FLOOR: 6

Length: L = 2.10 m a = 0.00 m Section: b = 40.0 cm Sec: S40X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-2.34	-2.34	-2.34	-3.13	-4.27	-5.44	-6.63	-7.86	-9.12	-10.40	-11.72
Mu(+), ton-m:	2.34	2.34	2.34	2.34	2.34	2.35	2.82	3.27	3.68	4.06	4.41
As(-), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
As(+), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
vu, Kg/cm2:	2.91	2.91	2.91	2.91	2.95	2.99	3.03	3.07	3.07	3.07	3.07
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F2 14 #3@ 15 8'-F3

BEAM: 8'(F3-G) FLOOR: 6

Length: L = 2.20 m a = 0.00 m Section: b = 40.0 cm Sec: S40X70
Lu = 2.20 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.22	0.44	0.66	0.88	1.10	1.32	1.54	1.76	1.98	2.20
Mu(-), ton-m:	-22.09	-17.07	-12.10	-7.17	-4.42	-4.42	-4.42	-4.42	-6.14	-8.15	-10.20
Mu(+), ton-m:	8.27	6.63	4.94	4.42	4.42	4.42	7.34	12.09	16.79	21.44	26.05
As(-), cm2:	9.44	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
As(+), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	9.15	11.20
vu, Kg/cm2:	11.60	11.60	11.60	11.60	11.54	11.47	11.41	11.35	11.35	11.35	11.35
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F3 15 #3@ 15 8'-G

BEAM: 8(B'-C) FLOOR: 6

Length: L = 3.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 3.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.36	0.71	1.07	1.42	1.78	2.13	2.49	2.84	3.20	3.55
Mu(-), ton-m:	0.00	-6.52	-13.18	-19.98	-26.93	-34.02	-41.26	-48.64	-56.17	-63.84	-71.65
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	11.50	14.66	17.94	21.37	24.93	28.65	32.54
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.66	5.79	5.92	6.05	6.18	6.30	6.43	6.56	6.69	6.72	6.72
Tu, ton-m:	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-B' 12 #3@ 30 8-C

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:50 a.m. 05/08/2010

BEAM: 8(C-D) FLOOR: 6

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-51.92	-34.61	-17.85	-10.38	-10.38	-10.38	-10.38	-10.38	-14.89	-30.86	-47.38
Mu(+), ton-m:	17.31	10.38	10.38	12.07	21.13	29.62	21.39	13.08	10.38	10.38	15.79
As(-), cm2:	22.91	14.92	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.24	20.78
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.69	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.92	7.91	7.73	7.55	7.38	7.20	7.11	7.29	7.47	7.65	7.66
Tu, ton-m:	0.92	0.92	0.92	0.92	0.92	0.92	0.90	0.90	0.90	0.90	0.90
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

8-C 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-D

BEAM: 8(D-E) FLOOR: 6

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-49.29	-32.30	-15.86	-9.86	-9.86	-9.86	-9.86	-9.86	-15.24	-31.51	-48.33
Mu(+), ton-m:	16.43	9.86	9.86	13.19	21.96	30.20	22.04	13.43	9.86	9.86	16.11
As(-), cm2:	21.67	13.88	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.53	21.22
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.95	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.71	7.69	7.52	7.34	7.16	6.98	7.10	7.28	7.46	7.64	7.65
Tu, ton-m:	0.89	0.89	0.89	0.89	0.89	0.89	0.87	0.87	0.87	0.87	0.87
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

8-D 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-E

BEAM: 8(E-F) FLOOR: 6

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.25 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.98	1.70	2.43	3.15	3.88	4.60	5.33	6.05	6.78	7.50
Mu(-), ton-m:	-50.60	-32.51	-15.02	-10.12	-10.12	-10.12	-10.12	-10.12	-15.59	-32.59	-50.20
Mu(+), ton-m:	16.87	10.12	10.12	18.32	27.32	32.48	21.98	13.48	10.12	10.12	16.73
As(-), cm2:	22.29	13.98	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.01	22.10
As(+), cm2:	10.71	10.71	10.71	10.71	11.67	13.97	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.77	7.75	7.57	7.38	7.20	6.93	7.05	7.25	7.45	7.64	7.67
Tu, ton-m:	0.96	0.96	0.96	0.96	0.96	0.82	0.75	0.75	0.75	0.75	0.75
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

8-E 11 #3@ 15 13 #3@ 30 11 #3@ 15 8-F

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:50 a.m. 05/08/2010

BEAM: 8(F-F1) FLOOR: 6

Length: L = 1.80 m Lu = 1.80 m | a = 0.00 m c = 0.00 m | Section: b = 50.0 cm h = 70.0 cm | Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.18	0.36	0.54	0.72	0.90	1.08	1.26	1.44	1.62	1.80
Mu(-), ton-m:	-14.24	-11.89	-9.57	-7.29	-6.11	-8.19	-12.28	-16.41	-20.58	-24.78	-29.02
Mu(+), ton-m:	11.69	7.79	5.80	5.80	5.80	5.80	5.80	5.80	5.80	5.80	9.67
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.42
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	9.01	9.01	9.01	9.01	9.03	9.08	9.13	9.15	9.15	9.15	9.15
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8-F 12 #3@ 15 8-F1

BEAM: 8(F1-F2) FLOOR: 6

Length: L = 2.10 m Lu = 2.10 m | a = 0.00 m c = 0.00 m | Section: b = 50.0 cm h = 70.0 cm | Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-9.67	-7.83	-6.02	-4.25	-2.52	-1.93	-1.93	-3.00	-4.62	-6.28	-7.97
Mu(+), ton-m:	7.30	5.94	4.54	3.10	1.93	1.93	1.93	2.45	4.03	5.58	7.09
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.93	2.93	2.93	2.93	2.90	2.85	2.81	2.77	2.77	2.77	2.77
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8-F1 14 #3@ 15 8-F2

BEAM: 8(F2-F3) FLOOR: 6

Length: L = 2.10 m Lu = 2.10 m | a = 0.00 m c = 0.00 m | Section: b = 50.0 cm h = 70.0 cm | Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-8.35	-6.53	-4.76	-3.01	-1.98	-1.98	-2.73	-4.47	-6.25	-8.06	-9.91
Mu(+), ton-m:	6.91	5.40	3.84	2.25	1.98	1.98	1.99	3.58	5.14	6.66	8.14
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.84	2.84	2.84	2.84	2.80	2.80	2.84	2.88	2.88	2.88	2.88
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8-F2 14 #3@ 15 8-F3

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:50 a.m. 05/08/2010

BEAM: 8(F3-G) FLOOR: 6

Length: L = 2.20 m Lu = 2.20 m | a = 0.00 m c = 0.00 m | Section: b = 50.0 cm h = 70.0 cm | Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.22	0.44	0.66	0.88	1.10	1.32	1.54	1.76	1.98	2.20
Mu(-), ton-m:	-33.06	-27.69	-22.37	-17.11	-11.90	-6.74	-6.61	-7.48	-10.63	-13.84	-17.10
Mu(+), ton-m:	13.10	10.32	7.48	6.61	6.61	6.61	6.61	6.61	8.41	13.35	18.24
As(-), cm2:	14.22	11.83	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	9.34	9.34	9.34	9.34	9.28	9.22	9.16	9.11	9.10	9.10	9.10
Tu, ton-m:	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8-F3 15 #3@ 15 8-G

BEAM: 8(G-H) FLOOR: 6

Length: L = 7.20 m Lu = 6.95 m | a = 0.00 m c = 0.25 m | Section: b = 50.0 cm h = 70.0 cm | Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.70	1.39	2.09	2.78	3.48	4.17	4.87	5.56	6.26	6.95
Mu(-), ton-m:	-45.39	-29.27	-13.71	-10.14	-10.14	-10.14	-10.14	-10.14	-16.31	-33.22	-50.69
Mu(+), ton-m:	15.13	10.14	10.14	13.59	20.71	30.30	25.53	17.06	10.14	10.14	16.90
As(-), cm2:	19.85	12.53	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.30	22.33
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.99	10.88	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.41	7.40	7.21	7.02	6.83	6.64	7.27	7.45	7.62	7.80	7.81
Tu, ton-m:	0.75	0.75	0.75	0.75	0.75	0.75	0.97	0.97	0.97	0.97	0.97
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

8-G 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-H

BEAM: 8(H-I) FLOOR: 6

Length: L = 7.10 m Lu = 6.60 m | a = 0.25 m c = 0.25 m | Section: b = 50.0 cm h = 70.0 cm | Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.91	1.57	2.23	2.89	3.55	4.21	4.87	5.53	6.19	6.85
Mu(-), ton-m:	-46.18	-30.55	-15.42	-9.24	-9.24	-9.24	-9.24	-9.24	-15.47	-30.58	-46.19
Mu(+), ton-m:	15.39	9.24	9.24	12.65	20.02	27.04	20.15	12.80	9.24	9.24	15.40
As(-), cm2:	20.21	13.10	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.12	20.22
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	11.55	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.45	7.45	7.28	7.11	6.95	6.78	6.94	7.11	7.27	7.44	7.45
Tu, ton-m:	0.91	0.91	0.91	0.91	0.91	0.91	0.92	0.92	0.92	0.92	0.92
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

8-H 11 #3@ 15 10 #3@ 30 11 #3@ 15 8-I

BEAM: 8(I-J) FLOOR: 6

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-48.19	-31.84	-16.15	-9.87	-9.87	-9.87	-9.87	-9.87	-15.04	-31.75	-49.34
Mu(+), ton-m:	16.06	9.87	9.87	11.93	19.77	27.74	23.91	14.90	9.87	9.87	16.45
As(-), cm2:	21.15	13.68	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.64	21.69
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	11.86	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.47	7.45	7.23	7.02	6.80	6.59	7.36	7.54	7.72	7.89	7.91
Tu, ton-m:	0.83	0.83	0.83	0.83	0.83	0.83	0.95	0.95	0.95	0.95	0.95
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

8-I 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-J

BEAM: 8(J-K) FLOOR: 6

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-48.94	-32.02	-15.66	-9.79	-9.79	-9.79	-9.79	-9.79	-15.52	-31.83	-48.70
Mu(+), ton-m:	16.31	9.79	9.79	13.22	21.92	30.08	21.97	13.31	9.79	9.79	16.23
As(-), cm2:	21.50	13.76	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.67	21.39
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.89	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.67	7.66	7.48	7.30	7.12	6.95	7.11	7.29	7.46	7.64	7.66
Tu, ton-m:	0.93	0.93	0.93	0.93	0.93	0.93	0.96	0.96	0.96	0.96	0.96
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

8-J 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-K

BEAM: 8(K-L) FLOOR: 6

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-47.38	-30.84	-14.85	-10.41	-10.41	-10.41	-10.41	-10.41	-17.88	-34.69	-52.04
Mu(+), ton-m:	15.79	10.41	10.41	13.31	21.55	29.75	21.29	12.27	10.41	10.41	17.35
As(-), cm2:	20.78	13.23	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.95	22.97
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.74	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.66	7.64	7.47	7.29	7.11	6.93	7.38	7.56	7.74	7.92	7.93
Tu, ton-m:	0.96	0.96	0.96	0.96	0.96	0.96	0.98	0.98	0.98	0.98	0.98
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

8-K 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-L

BEAM: 8(L-L1) FLOOR: 6

Length: L = 3.75 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 3.50 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.60	0.95	1.30	1.65	2.00	2.35	2.70	3.05	3.40	3.75
Mu(-), ton-m:	-69.83	-62.22	-54.74	-47.41	-40.21	-33.16	-26.25	-19.47	-12.84	-6.35	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	31.62	27.86	24.25	20.79	17.46	14.27	11.19	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.63	6.63	6.61	6.49	6.36	6.23	6.11	5.98	5.85	5.73	5.60
Tu, ton-m:	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-L 12 #3@ 30 8-L1

BEAM: 9'(F-F1) FLOOR: 7

Length: L = 1.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 1.80 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.18	0.36	0.54	0.72	0.90	1.08	1.26	1.44	1.62	1.80
Mu(-), ton-m:	-4.48	-3.65	-2.83	-2.83	-2.83	-2.83	-3.08	-5.83	-8.59	-11.36	-14.15
Mu(+), ton-m:	13.12	10.45	7.77	5.08	2.83	2.83	2.83	2.83	2.83	2.83	4.72
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	6.05
As(+), cm2:	5.59	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	13.02	13.02	13.02	13.02	13.03	13.07	13.10	13.12	13.12	13.12	13.12
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F 12 #3@ 15 9'-F1

BEAM: 9'(F1-F2) FLOOR: 7

Length: L = 2.10 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-3.53	-2.83	-2.15	-1.48	-0.84	-0.78	-0.78	-1.46	-2.26	-3.07	-3.90
Mu(+), ton-m:	3.58	2.92	2.23	1.53	0.81	0.78	0.78	0.98	1.55	2.10	2.64
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	2.54	2.54	2.54	2.54	2.58	2.62	2.66	2.70	2.70	2.70	2.70
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F1 14 #3@ 15 9'-F2

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:50 a.m. 05/08/2010

BEAM: 9'(F2-F3) FLOOR: 7

Length: L = 2.10 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-3.15	-2.45	-1.78	-1.13	-0.90	-0.90	-1.13	-1.95	-2.79	-3.65	-4.52
Mu(+), ton-m:	3.41	2.70	1.97	1.23	0.90	0.90	0.90	1.31	1.87	2.41	2.94
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	2.75	2.75	2.75	2.75	2.79	2.83	2.87	2.91	2.91	2.91	2.91
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F2 14 #3@ 15 9'-F3

BEAM: 9'(F3-G) FLOOR: 7

Length: L = 2.20 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.20 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.22	0.44	0.66	0.88	1.10	1.32	1.54	1.76	1.98	2.20
Mu(-), ton-m:	-19.73	-15.81	-11.92	-8.05	-4.20	-3.95	-3.95	-3.95	-3.95	-3.95	-4.87
Mu(+), ton-m:	6.58	3.95	3.95	3.95	3.95	3.95	3.95	7.24	11.01	14.76	18.49
As(-), cm2:	8.56	6.79	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	6.32	8.00
vu, Kg/cm2:	15.27	15.27	15.27	15.27	15.22	15.18	15.14	15.09	15.09	15.09	15.09
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F3 15 #3@ 15 9'-G

BEAM: 9(B'-C) FLOOR: 7

Length: L = 3.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 3.60 m c = 0.20 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.36	0.72	1.08	1.44	1.80	2.16	2.52	2.88	3.24	3.60
Mu(-), ton-m:	0.00	-6.45	-13.05	-19.81	-26.71	-33.76	-40.95	-48.30	-55.80	-63.45	-71.24
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	11.40	14.54	17.80	21.21	24.76	28.46	32.33
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.53	5.66	5.79	5.92	6.05	6.18	6.31	6.44	6.57	6.60	6.60
Tu, ton-m:	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-B' 12 #3@ 30 9-C

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:50 a.m. 05/08/2010

BEAM: 9(C-D) FLOOR: 7

Length: L = 7.50 m a = 0.20 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.05 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.20	0.91	1.61	2.32	3.02	3.73	4.43	5.14	5.84	6.55	7.25
Mu(-), ton-m:	-52.30	-34.96	-18.18	-10.46	-10.46	-10.46	-10.46	-10.46	-10.46	-23.04	-37.70
Mu(+), ton-m:	17.43	10.46	10.46	10.46	19.21	29.15	22.22	14.35	10.46	10.46	12.57
As(-), cm2:	23.09	15.08	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	16.32
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.48	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.99	7.97	7.79	7.61	7.43	7.25	6.54	6.71	6.89	7.07	7.09
Tu, ton-m:	0.95	0.95	0.95	0.95	0.95	0.95	0.94	0.94	0.94	0.94	0.94
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-C 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-D

BEAM: 9(D-E) FLOOR: 7

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.00 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-45.44	-29.36	-13.84	-9.09	-9.09	-9.09	-9.09	-9.09	-12.31	-27.32	-42.92
Mu(+), ton-m:	15.15	9.09	9.09	11.35	20.71	29.52	21.04	12.13	9.09	9.09	14.31
As(-), cm2:	19.87	12.57	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.67	18.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.64	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.37	7.36	7.18	7.00	6.83	6.65	6.67	6.85	7.02	7.20	7.22
Tu, ton-m:	1.00	1.00	1.00	1.00	1.00	1.00	0.97	0.97	0.97	0.97	0.97
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-D 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-E

BEAM: 9(E-F) FLOOR: 7

Length: L = 7.50 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.25 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.98	1.70	2.43	3.15	3.88	4.60	5.33	6.05	6.78	7.50
Mu(-), ton-m:	-45.76	-28.73	-12.30	-9.59	-9.59	-9.59	-9.59	-9.59	-14.69	-31.02	-47.96
Mu(+), ton-m:	15.25	9.59	9.59	17.04	26.07	31.35	21.18	12.25	9.59	9.59	15.99
As(-), cm2:	20.02	12.29	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.31	21.05
As(+), cm2:	10.71	10.71	10.71	10.71	11.12	13.46	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.41	7.39	7.20	7.02	6.83	6.65	6.82	7.02	7.21	7.41	7.43
Tu, ton-m:	1.03	1.03	1.03	1.03	1.03	0.89	0.82	0.82	0.82	0.82	0.82
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-E 11 #3@ 15 13 #3@ 30 11 #3@ 15 9-F

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:50 a.m. 05/08/2010

BEAM: 9(F-F1) FLOOR: 7

Length: L = 1.80 m Lu = 1.80 m | a = 0.00 m c = 0.00 m | Section: b = 50.0 cm h = 70.0 cm | Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.18	0.36	0.54	0.72	0.90	1.08	1.26	1.44	1.62	1.80
Mu(-), ton-m:	-13.93	-11.67	-9.44	-7.25	-5.30	-6.80	-8.37	-9.98	-11.62	-13.30	-15.02
Mu(+), ton-m:	4.64	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.12	5.08	7.01
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	4.46	4.46	4.46	4.46	4.44	4.39	4.34	4.32	4.32	4.32	4.32
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9-F 12 #3@ 15 9-F1

BEAM: 9(F1-F2) FLOOR: 7

Length: L = 2.10 m Lu = 2.10 m | a = 0.00 m c = 0.00 m | Section: b = 50.0 cm h = 70.0 cm | Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-9.66	-8.49	-7.36	-6.26	-5.21	-4.19	-3.20	-2.26	-1.93	-1.93	-1.93
Mu(+), ton-m:	4.91	4.53	4.12	3.67	3.19	2.66	2.10	1.93	1.93	1.93	1.93
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.02	2.02	2.02	2.02	1.98	1.93	1.89	1.85	1.85	1.85	1.85
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9-F1 14 #3@ 15 9-F2

BEAM: 9(F2-F3) FLOOR: 7

Length: L = 2.10 m Lu = 2.10 m | a = 0.00 m c = 0.00 m | Section: b = 50.0 cm h = 70.0 cm | Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-2.74	-2.74	-2.74	-3.05	-4.46	-5.91	-7.40	-8.92	-10.48	-12.08	-13.72
Mu(+), ton-m:	2.74	2.74	2.74	2.74	2.74	2.84	3.44	4.01	4.53	5.02	5.47
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.82	2.82	2.82	2.82	2.86	2.90	2.94	2.98	2.98	2.98	2.98
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9-F2 14 #3@ 15 9-F3

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:50 a.m. 05/08/2010

BEAM: 9(F3-G) FLOOR: 7

Length: L = 2.20 m Lu = 2.20 m | a = 0.00 m c = 0.00 m | Section: b = 50.0 cm h = 70.0 cm | Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.22	0.44	0.66	0.88	1.10	1.32	1.54	1.76	1.98	2.20
Mu(-), ton-m:	-21.16	-17.86	-14.61	-11.41	-8.27	-5.19	-4.66	-7.00	-9.38	-11.82	-14.32
Mu(+), ton-m:	8.22	6.21	4.23	4.23	4.23	4.23	4.23	4.23	4.23	6.63	9.45
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.38	5.38	5.38	5.38	5.32	5.26	5.20	5.15	5.14	5.14	5.14
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9-F3 15 #3@ 15 9-G

BEAM: 9(G-H) FLOOR: 7

Length: L = 7.20 m Lu = 6.95 m | a = 0.00 m c = 0.25 m | Section: b = 50.0 cm h = 70.0 cm | Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.70	1.39	2.09	2.78	3.48	4.17	4.87	5.56	6.26	6.95
Mu(-), ton-m:	-44.94	-29.07	-13.76	-8.99	-8.99	-8.99	-8.99	-8.99	-11.79	-27.12	-43.00
Mu(+), ton-m:	14.98	8.99	8.99	11.49	19.61	29.44	24.95	16.80	8.99	8.99	14.33
As(-), cm2:	19.64	12.44	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.58	18.74
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.61	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.21	7.20	7.01	6.82	6.63	6.44	6.62	6.80	6.98	7.15	7.17
Tu, ton-m:	0.82	0.82	0.82	0.82	0.82	0.82	0.99	0.99	0.99	0.99	0.99
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-G 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-H

BEAM: 9(H-I) FLOOR: 7

Length: L = 7.10 m Lu = 6.60 m | a = 0.25 m c = 0.25 m | Section: b = 50.0 cm h = 70.0 cm | Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.91	1.57	2.23	2.89	3.55	4.21	4.87	5.53	6.19	6.85
Mu(-), ton-m:	-41.94	-27.29	-13.13	-8.39	-8.39	-8.39	-8.39	-8.39	-12.90	-26.93	-41.46
Mu(+), ton-m:	13.98	8.39	8.39	10.88	18.80	26.34	19.06	11.28	8.39	8.39	13.82
As(-), cm2:	18.25	11.65	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.50	18.03
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	11.24	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.07	7.06	6.90	6.73	6.56	6.40	6.52	6.69	6.85	7.02	7.02
Tu, ton-m:	0.97	0.97	0.97	0.97	0.97	0.97	0.96	0.96	0.96	0.96	0.96
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-H 11 #3@ 15 10 #3@ 30 11 #3@ 15 9-I

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:51 a.m. 05/08/2010

BEAM: 9(I-J) FLOOR: 7

Length: L = 7.50 m Lu = 7.00 m a = 0.25 m c = 0.25 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-44.38	-29.09	-14.40	-8.94	-8.94	-8.94	-8.94	-8.94	-12.51	-28.11	-44.69
Mu(+), ton-m:	14.79	8.94	8.94	10.05	18.58	27.18	23.07	13.66	8.94	8.94	14.90
As(-), cm2:	19.38	12.45	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.02	19.52
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	11.61	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.08	7.07	6.89	6.71	6.53	6.35	6.97	7.15	7.32	7.50	7.52
Tu, ton-m:	0.87	0.87	0.87	0.87	0.87	0.87	0.98	0.98	0.98	0.98	0.98
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-I 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-J

BEAM: 9(J-K) FLOOR: 7

Length: L = 7.50 m Lu = 7.00 m a = 0.25 m c = 0.25 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-45.50	-29.40	-13.86	-9.10	-9.10	-9.10	-9.10	-9.10	-12.60	-27.73	-43.41
Mu(+), ton-m:	15.17	9.10	9.10	11.35	20.66	29.43	21.07	12.18	9.10	9.10	14.47
As(-), cm2:	19.90	12.59	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.85	18.93
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.61	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.38	7.36	7.19	7.01	6.83	6.65	6.69	6.87	7.05	7.22	7.24
Tu, ton-m:	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-J 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-K

BEAM: 9(K-L) FLOOR: 7

Length: L = 7.50 m Lu = 7.05 m a = 0.25 m c = 0.20 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.96	1.66	2.37	3.07	3.78	4.48	5.19	5.89	6.60	7.30
Mu(-), ton-m:	-40.91	-25.72	-11.25	-10.26	-10.26	-10.26	-10.26	-10.26	-17.87	-34.30	-51.28
Mu(+), ton-m:	13.64	10.26	10.26	12.85	21.11	28.59	19.18	10.26	10.26	10.26	17.09
As(-), cm2:	17.78	10.96	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.78	22.61
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.23	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.24	7.23	7.05	6.87	6.69	6.60	7.29	7.47	7.65	7.83	7.85
Tu, ton-m:	0.89	0.89	0.89	0.89	0.89	0.89	0.88	0.88	0.88	0.88	0.88
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-K 11 #3@ 15 12 #3@ 30 11 #3@ 15 9-L

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:51 a.m. 05/08/2010

BEAM: 9(L-L1) FLOOR: 7

Length: L = 3.75 m Lu = 3.55 m a = 0.20 m c = 0.00 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.20	0.56	0.91	1.27	1.62	1.98	2.33	2.69	3.04	3.40	3.75
Mu(-), ton-m:	-69.54	-61.94	-54.48	-47.16	-39.99	-32.96	-26.08	-19.34	-12.75	-6.30	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	31.48	27.72	24.12	20.67	17.36	14.18	11.12	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.53	6.53	6.51	6.38	6.25	6.12	5.99	5.86	5.73	5.60	5.48
Tu, ton-m:	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-L 12 #3@ 30 9-L1

BEAM: 8'(F-F1) FLOOR: 7

Length: L = 1.80 m Lu = 1.80 m a = 0.00 m c = 0.00 m Section: b = 40.0 cm h = 70.0 cm Sec: S40X70 Mat: RConcrete2

X, m:	0.00	0.18	0.36	0.54	0.72	0.90	1.08	1.26	1.44	1.62	1.80
Mu(-), ton-m:	-3.10	-2.92	-2.92	-2.92	-2.92	-2.92	-2.92	-5.21	-8.31	-11.44	-14.60
Mu(+), ton-m:	15.56	12.69	9.79	6.85	3.88	2.92	2.92	2.92	2.92	2.92	4.87
As(-), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
As(+), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
vu, Kg/cm2:	9.19	9.19	9.19	9.19	9.22	9.27	9.32	9.34	9.34	9.34	9.34
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F 12 #3@ 15 8'-F1

BEAM: 8'(F1-F2) FLOOR: 7

Length: L = 2.10 m Lu = 2.10 m a = 0.00 m c = 0.00 m Section: b = 40.0 cm h = 70.0 cm Sec: S40X70 Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-9.01	-7.92	-6.85	-5.82	-4.81	-3.84	-2.89	-1.98	-1.80	-1.80	-1.80
Mu(+), ton-m:	3.00	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
As(-), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
As(+), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
vu, Kg/cm2:	2.59	2.59	2.59	2.59	2.55	2.51	2.47	2.43	2.43	2.43	2.43
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F1 14 #3@ 15 8'-F2

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
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BEAM: 8'(F2-F3) FLOOR: 7

Length: L = 2.10 m Lu = 2.10 m a = 0.00 m c = 0.00 m Section: b = 40.0 cm h = 70.0 cm Sec: S40X70 Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-2.17	-2.17	-2.17	-2.50	-3.60	-4.74	-5.90	-7.10	-8.32	-9.57	-10.86
Mu(+), ton-m:	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.55	2.95	3.32	3.65
As(-), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
As(+), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
vu, Kg/cm2:	2.77	2.77	2.77	2.77	2.81	2.85	2.89	2.93	2.93	2.93	2.93
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F2 14 #3@ 15 8'-F3

BEAM: 8'(F3-G) FLOOR: 7

Length: L = 2.20 m Lu = 2.20 m a = 0.00 m c = 0.00 m Section: b = 40.0 cm h = 70.0 cm Sec: S40X70 Mat: RConcrete2

X, m:	0.00	0.22	0.44	0.66	0.88	1.10	1.32	1.54	1.76	1.98	2.20
Mu(-), ton-m:	-18.74	-14.64	-10.59	-6.58	-3.75	-3.75	-3.75	-3.75	-3.75	-4.18	-5.40
Mu(+), ton-m:	6.25	4.01	3.75	3.75	3.75	3.75	5.17	9.00	12.78	16.52	20.21
As(-), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57
As(+), cm2:	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.57	8.61
vu, Kg/cm2:	9.72	9.72	9.72	9.72	9.66	9.60	9.54	9.48	9.47	9.47	9.47
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F3 15 #3@ 15 8'-G

BEAM: 8(B'-C) FLOOR: 7

Length: L = 3.80 m Lu = 3.55 m a = 0.00 m c = 0.25 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.36	0.71	1.07	1.42	1.78	2.13	2.49	2.84	3.20	3.55
Mu(-), ton-m:	0.00	-6.51	-13.16	-19.96	-26.91	-34.00	-41.24	-48.62	-56.14	-63.81	-71.62
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	11.49	14.65	17.93	21.35	24.92	28.64	32.52
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.66	5.79	5.92	6.04	6.17	6.30	6.43	6.56	6.69	6.71	6.71
Tu, ton-m:	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-B' 12 #3@ 30 8-C

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:51 a.m. 05/08/2010

BEAM: 8(C-D) FLOOR: 7

Length: L = 7.50 m Lu = 7.00 m a = 0.25 m c = 0.25 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-47.95	-31.39	-15.39	-9.59	-9.59	-9.59	-9.59	-9.59	-12.85	-28.19	-44.09
Mu(+), ton-m:	15.98	9.59	9.59	10.96	20.65	29.77	20.84	11.79	9.59	9.59	14.70
As(-), cm2:	21.04	13.48	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.05	19.25
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.76	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.65	7.64	7.46	7.28	7.10	6.93	6.88	7.06	7.24	7.41	7.43
Tu, ton-m:	0.91	0.91	0.91	0.91	0.91	0.91	0.90	0.90	0.90	0.90	0.90
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

8-C 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-D

BEAM: 8(D-E) FLOOR: 7

Length: L = 7.50 m Lu = 7.00 m a = 0.25 m c = 0.25 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-46.04	-29.72	-13.95	-9.21	-9.21	-9.21	-9.21	-9.21	-13.08	-28.63	-44.72
Mu(+), ton-m:	15.35	9.21	9.21	11.74	21.24	30.19	21.30	12.02	9.21	9.21	14.91
As(-), cm2:	20.15	12.73	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.25	19.54
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.94	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.50	7.48	7.30	7.13	6.95	6.77	6.87	7.05	7.23	7.41	7.42
Tu, ton-m:	0.88	0.88	0.88	0.88	0.88	0.88	0.86	0.86	0.86	0.86	0.86
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

8-D 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-E

BEAM: 8(E-F) FLOOR: 7

Length: L = 7.50 m Lu = 7.25 m a = 0.25 m c = 0.00 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.98	1.70	2.43	3.15	3.88	4.60	5.33	6.05	6.78	7.50
Mu(-), ton-m:	-48.32	-30.57	-13.41	-9.66	-9.66	-9.66	-9.66	-9.66	-14.39	-30.91	-48.04
Mu(+), ton-m:	16.11	9.66	9.66	17.12	26.60	32.27	22.25	13.42	9.66	9.66	16.01
As(-), cm2:	21.21	13.11	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.26	21.08
As(+), cm2:	10.71	10.71	10.71	10.71	11.35	13.87	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.65	7.63	7.45	7.26	7.08	6.78	6.89	7.08	7.28	7.48	7.50
Tu, ton-m:	0.95	0.95	0.95	0.95	0.95	0.82	0.75	0.75	0.75	0.75	0.75
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

8-E 11 #3@ 15 13 #3@ 30 11 #3@ 15 8-F

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:51 a.m. 05/08/2010

BEAM: 8(F-F1) FLOOR: 7

Length: L = 1.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 1.80 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.18	0.36	0.54	0.72	0.90	1.08	1.26	1.44	1.62	1.80
Mu(-), ton-m:	-9.20	-7.98	-7.56	-7.18	-6.88	-9.15	-11.45	-13.80	-16.18	-18.60	-21.06
Mu(+), ton-m:	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	7.02
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.37	5.37	5.37	5.37	5.39	5.44	5.49	5.51	5.51	5.51	5.51
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8-F 12 #3@ 15 8-F1

BEAM: 8(F1-F2) FLOOR: 7

Length: L = 2.10 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-7.22	-5.84	-4.50	-3.19	-1.93	-1.44	-1.44	-2.27	-3.47	-4.71	-5.98
Mu(+), ton-m:	5.12	4.17	3.19	2.18	1.44	1.44	1.44	1.65	2.77	3.85	4.90
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.14	2.14	2.14	2.14	2.10	2.06	2.02	2.03	2.03	2.03	2.03
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8-F1 14 #3@ 15 8-F2

BEAM: 8(F2-F3) FLOOR: 7

Length: L = 2.10 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.10 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.21	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89	2.10
Mu(-), ton-m:	-5.98	-4.65	-3.36	-2.11	-1.56	-1.56	-2.24	-3.57	-4.94	-6.34	-7.79
Mu(+), ton-m:	4.98	3.87	2.72	1.56	1.56	1.56	1.56	2.53	3.60	4.63	5.63
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.13	2.13	2.13	2.13	2.13	2.18	2.22	2.26	2.26	2.26	2.26
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8-F2 14 #3@ 15 8-F3

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:51 a.m. 05/08/2010

BEAM: 8(F3-G) FLOOR: 7

Length: L = 2.20 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.20 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.22	0.44	0.66	0.88	1.10	1.32	1.54	1.76	1.98	2.20
Mu(-), ton-m:	-26.80	-22.86	-18.99	-15.16	-11.39	-7.67	-5.36	-5.36	-7.27	-9.27	-11.33
Mu(+), ton-m:	8.93	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	6.67	10.12
As(-), cm2:	11.44	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.95	6.95	6.95	6.94	6.88	6.83	6.77	6.71	6.71	6.71	6.71
Tu, ton-m:	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8-F3 15 #3@ 15 8-G

BEAM: 8(G-H) FLOOR: 7

Length: L = 7.20 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 6.95 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.70	1.39	2.09	2.78	3.48	4.17	4.87	5.56	6.26	6.95
Mu(-), ton-m:	-43.20	-27.54	-12.44	-9.59	-9.59	-9.59	-9.59	-9.59	-14.43	-30.92	-47.96
Mu(+), ton-m:	14.40	9.59	9.59	13.35	20.89	30.17	24.95	16.02	9.59	9.59	15.99
As(-), cm2:	18.84	11.77	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.27	21.05
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.93	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.23	7.22	7.03	6.84	6.65	6.46	7.11	7.28	7.46	7.63	7.65
Tu, ton-m:	0.75	0.75	0.75	0.75	0.75	0.75	0.96	0.96	0.96	0.96	0.96
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

8-G 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-H

BEAM: 8(H-I) FLOOR: 7

Length: L = 7.10 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 6.60 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.91	1.57	2.23	2.89	3.55	4.21	4.87	5.53	6.19	6.85
Mu(-), ton-m:	-42.89	-27.93	-13.46	-8.58	-8.58	-8.58	-8.58	-8.58	-13.29	-27.64	-42.49
Mu(+), ton-m:	14.30	8.58	8.58	11.02	19.16	27.00	19.45	11.44	8.58	8.58	14.16
As(-), cm2:	18.69	11.94	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.81	18.51
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	11.53	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.23	7.23	7.06	6.89	6.73	6.56	6.68	6.85	7.02	7.18	7.19
Tu, ton-m:	0.91	0.91	0.91	0.91	0.91	0.91	0.92	0.92	0.92	0.92	0.92
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

8-H 11 #3@ 15 10 #3@ 30 11 #3@ 15 8-I

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:51 a.m. 05/08/2010

BEAM: 8(I-J) FLOOR: 7

Length: L = 7.50 m Lu = 7.00 m a = 0.25 m c = 0.25 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-45.03	-29.31	-14.33	-9.18	-9.18	-9.18	-9.18	-9.18	-13.05	-28.98	-45.89
Mu(+), ton-m:	15.01	9.18	9.18	10.60	19.11	27.59	23.29	13.67	9.18	9.18	15.30
As(-), cm2:	19.68	12.55	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.41	20.08
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	11.79	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.25	7.23	7.02	6.80	6.59	6.37	7.13	7.31	7.49	7.66	7.68
Tu, ton-m:	0.82	0.82	0.82	0.82	0.82	0.82	0.94	0.94	0.94	0.94	0.94
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

8-I 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-J

BEAM: 8(J-K) FLOOR: 7

Length: L = 7.50 m Lu = 7.00 m a = 0.25 m c = 0.25 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-45.92	-29.60	-13.83	-9.18	-9.18	-9.18	-9.18	-9.18	-13.32	-28.91	-45.06
Mu(+), ton-m:	15.31	9.18	9.18	11.81	21.23	30.10	21.40	12.15	9.18	9.18	15.02
As(-), cm2:	20.10	12.68	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.37	19.69
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.90	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.48	7.47	7.29	7.11	6.94	6.76	6.88	7.06	7.23	7.41	7.43
Tu, ton-m:	0.93	0.93	0.93	0.93	0.93	0.93	0.95	0.95	0.95	0.95	0.95
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

8-J 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-K

BEAM: 8(K-L) FLOOR: 7

Length: L = 7.50 m Lu = 7.00 m a = 0.25 m c = 0.25 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.95	1.65	2.35	3.05	3.75	4.45	5.15	5.85	6.55	7.25
Mu(-), ton-m:	-43.70	-27.97	-12.78	-9.99	-9.99	-9.99	-9.99	-9.99	-16.78	-33.08	-49.94
Mu(+), ton-m:	14.57	9.99	9.99	11.92	20.66	29.39	20.12	10.30	9.99	9.99	16.65
As(-), cm2:	19.07	11.95	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.23	21.97
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	12.59	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.44	7.43	7.25	7.07	6.89	6.72	7.27	7.45	7.62	7.80	7.82
Tu, ton-m:	0.96	0.96	0.96	0.96	0.96	0.96	0.97	0.97	0.97	0.97	0.97
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

8-K 11 #3@ 15 12 #3@ 30 11 #3@ 15 8-L

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:51 a.m. 05/08/2010

BEAM: 8(L-L1) FLOOR: 7

Length: L = 3.75 m Lu = 3.50 m a = 0.25 m c = 0.00 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.60	0.95	1.30	1.65	2.00	2.35	2.70	3.05	3.40	3.75
Mu(-), ton-m:	-69.82	-62.21	-54.74	-47.40	-40.21	-33.15	-26.24	-19.47	-12.84	-6.35	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	31.62	27.86	24.25	20.78	17.46	14.27	11.19	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.63	6.63	6.61	6.49	6.36	6.23	6.10	5.98	5.85	5.72	5.60
Tu, ton-m:	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-L 12 #3@ 30 8-L1

BEAM: C(10-9) FLOOR: 1

Length: L = 4.21 m Lu = 2.41 m a = 0.00 m c = 1.80 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.21	1.45	1.69	1.93	2.17	2.41
Mu(-), ton-m:	-8.52	-6.45	-6.45	-6.45	-6.68	-10.28	-14.20	-18.22	-22.66	-27.25	-32.25
Mu(+), ton-m:	6.45	6.45	6.45	6.53	11.02	15.33	19.32	23.20	26.67	29.99	32.90
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.64	13.86
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.38	12.85	14.15
vu, Kg/cm2:	6.73	6.73	6.73	6.65	6.41	6.16	6.00	6.07	6.09	6.09	6.09
Tu, ton-m:	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

10-C 16 #3@ 15 9-C

BEAM: C(9-8) FLOOR: 1

Length: L = 8.07 m Lu = 6.27 m a = 1.80 m c = 0.00 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	1.80	2.43	3.05	3.68	4.31	4.93	5.56	6.19	6.81	7.44	8.07
Mu(-), ton-m:	-30.33	-19.08	-10.32	-6.07	-6.07	-6.07	-6.07	-6.07	-6.68	-14.56	-23.84
Mu(+), ton-m:	10.11	6.07	8.37	9.86	9.87	8.94	8.97	9.16	8.27	6.07	7.95
As(-), cm2:	13.00	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	4.84	4.84	4.02	3.18	2.50	2.18	2.64	3.21	3.78	4.35	4.35
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-C 11 #3@ 15 9 #3@ 30 11 #3@ 15 8-C

BEAM: C(8-7) FLOOR: 1

Length: L = 4.21 m a = 0.90 m Section: b = 50.0 cm Sec: S50X70
Lu = 3.06 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.90	1.20	1.51	1.81	2.12	2.43	2.73	3.04	3.35	3.65	3.96
Mu(-), ton-m:	-11.22	-8.18	-5.62	-3.41	-2.24	-2.24	-2.24	-2.24	-2.24	-2.24	-3.96
Mu(+), ton-m:	11.05	11.41	11.27	10.79	9.98	8.60	6.87	4.80	2.36	2.24	2.24
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.41	2.41	2.41	2.03	1.83	2.06	2.28	2.51	2.74	2.74	2.74
Tu, ton-m:	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	30.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8-C 21 #3@ 15 7-C

BEAM: C1(10-9) FLOOR: 1

Length: L = 4.21 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	-3.85	-2.16	-1.07	-0.60	-0.74	-1.47	-2.73	-4.55	-6.91	-9.81	-13.25
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	1.35	1.35	1.04	0.23	0.57	1.29	2.02	2.74	3.46	3.74	3.74
Tu, ton-m:	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-C1 14 #3@ 30 9-C1

BEAM: C1(9-8) FLOOR: 1

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-12.95	-3.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-3.99	-12.76
Mu(+), ton-m:	0.00	0.92	4.86	10.35	13.74	14.77	13.51	10.02	4.44	0.81	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.35	6.11	4.56	3.01	1.46	0.15	1.64	3.13	4.51	5.89	6.11
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-C1 26 #3@ 30 8-C1

BEAM: C1(8-7) FLOOR: 1

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.71 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.62	0.99	1.36	1.73	2.11	2.48	2.85	3.22	3.59	3.96
Mu(-), ton-m:	-12.84	-9.50	-6.65	-4.32	-2.52	-1.25	-0.67	-0.61	-1.07	-2.06	-3.54
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	3.81	3.81	3.60	2.84	2.08	1.32	0.56	0.23	0.99	1.20	1.20
Tu, ton-m:	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-C1 13 #3@ 30 7-C1

BEAM: D(11'-10) FLOOR: 1

Length: L = 2.20 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 1.95 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.19	0.39	0.58	0.78	0.97	1.17	1.36	1.56	1.75	1.95
Mu(-), ton-m:	-3.21	-2.40	-1.62	-1.37	-1.37	-1.37	-1.50	-2.79	-4.11	-5.46	-6.84
Mu(+), ton-m:	5.57	4.47	3.34	2.18	1.37	1.37	1.37	1.81	2.41	2.97	3.49
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.47	2.47	2.47	2.47	2.50	2.53	2.57	2.59	2.59	2.59	2.59
Tu, ton-m:	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

11'-D 13 #3@ 15 10-D

BEAM: D(10-9) FLOOR: 1

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 3.31 m c = 0.90 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.33	0.66	0.99	1.33	1.66	1.99	2.32	2.65	2.98	3.31
Mu(-), ton-m:	-18.61	-13.81	-9.41	-5.40	-4.02	-4.02	-4.10	-7.47	-11.24	-15.44	-20.12
Mu(+), ton-m:	7.38	6.48	5.19	4.02	4.02	4.02	4.08	6.39	8.31	9.80	10.82
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	4.07	4.07	4.05	3.76	3.46	3.23	3.14	3.38	3.77	3.80	3.80
Tu, ton-m:	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	30.00	15.00	15.00	15.00	15.00	15.00

DESIGN

10-D 22 #3@ 15 9-D

BEAM: D(9-8) FLOOR: 1

Length: L = 8.07 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 8.06 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.81	1.62	2.42	3.23	4.04	4.84	5.65	6.45	7.26	8.07
Mu(-), ton-m:	-26.49	-13.18	-5.39	-5.39	-5.39	-5.39	-5.39	-5.39	-5.39	-13.92	-26.97
Mu(+), ton-m:	8.83	5.39	5.39	10.27	13.09	13.31	12.57	9.48	5.39	5.39	8.99
As(-), cm2:	11.30	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.52
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	4.90	4.70	3.89	3.09	2.28	1.62	2.41	3.18	3.90	4.63	4.79
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-D 11 #3@ 15 15 #3@ 30 11 #3@ 15 8-D

BEAM: D(8-7) FLOOR: 1

Length: L = 4.21 m a = 0.90 m Section: b = 50.0 cm Sec: S50X70
Lu = 3.06 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.90	1.20	1.51	1.81	2.12	2.43	2.73	3.04	3.35	3.65	3.96
Mu(-), ton-m:	-16.64	-12.72	-9.28	-6.19	-4.41	-4.41	-4.41	-6.35	-11.10	-16.41	-22.03
Mu(+), ton-m:	16.13	14.16	11.70	8.90	5.78	4.41	4.41	4.41	4.41	4.41	7.34
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	4.57	4.57	4.57	4.78	5.00	5.22	5.45	5.67	5.87	5.87	5.87
Tu, ton-m:	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44	0.44
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	30.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8-D 21 #3@ 15 7-D

BEAM: D(7-6') FLOOR: 1

Length: L = 2.43 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.18 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.22	0.44	0.65	0.87	1.09	1.31	1.52	1.74	1.96	2.18
Mu(-), ton-m:	-10.41	-8.34	-6.32	-4.34	-2.39	-2.08	-2.08	-2.08	-2.08	-2.08	-2.08
Mu(+), ton-m:	3.47	2.08	2.08	2.08	2.08	2.08	2.08	3.22	5.01	6.76	8.47
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	3.92	3.92	3.92	3.92	3.88	3.84	3.80	3.77	3.76	3.76	3.76
Tu, ton-m:	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

7-D 15 #3@ 15 6'-D

BEAM: D1(11'-10) FLOOR: 1

Length: L = 2.20 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 1.95 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.19	0.39	0.58	0.78	0.97	1.17	1.36	1.56	1.75	1.95
Mu(-), ton-m:	0.00	-0.08	-0.28	-0.61	-1.06	-1.63	-2.33	-3.15	-4.10	-5.18	-6.41
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.34	0.68	1.02	1.37	1.71	2.05	2.29	2.29	2.29	2.29
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

11'-D1 7 #3@ 30 10-D1

BEAM: D1(10-9) FLOOR: 1

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.71 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.62	0.99	1.36	1.73	2.11	2.48	2.85	3.22	3.59	3.96
Mu(-), ton-m:	-7.58	-6.79	-6.42	-6.48	-6.98	-7.98	-9.46	-11.47	-13.91	-16.84	-20.24
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.20	8.71
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.38	0.38	0.21	0.39	1.06	1.74	2.41	3.09	3.77	3.95	3.95
Tu, ton-m:	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-D1 13 #3@ 30 9-D1

BEAM: D1(9-8) FLOOR: 1

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-19.16	-9.22	-2.06	0.00	0.00	0.00	0.00	0.00	-1.99	-8.82	-18.33
Mu(+), ton-m:	0.00	0.03	0.81	4.35	7.79	8.89	7.69	4.27	0.71	0.00	0.00
As(-), cm2:	8.23	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.86
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.40	6.16	4.61	3.06	1.51	0.14	1.60	3.09	4.47	5.85	6.06
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-D1 26 #3@ 30 8-D1

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:51 a.m. 05/08/2010

BEAM: D1(8-6') FLOOR: 1

Length: L = 6.64 m Lu = 6.39 m a = 0.25 m c = 0.00 m Section: b = 30.0 cm h = 70.0 cm Sec: S30X70 Mat: RConcrete2

X, m:	0.25	0.89	1.53	2.17	2.80	3.44	4.08	4.72	5.36	6.00	6.64
Mu(-), ton-m:	-19.37	-14.06	-10.24	-8.05	-7.43	-8.40	-10.00	-7.32	-3.29	-0.85	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	8.33	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	3.74	3.74	2.43	1.13	0.21	1.49	2.80	3.92	2.61	1.31	0.00
Tu, ton-m:	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-D1 — 22 #3@ 30 — 6'-D1

BEAM: E(11'-10) FLOOR: 1

Length: L = 2.20 m Lu = 1.95 m a = 0.00 m c = 0.25 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.19	0.39	0.58	0.78	0.97	1.17	1.36	1.56	1.75	1.95
Mu(-), ton-m:	0.00	-0.09	-0.31	-0.67	-1.16	-1.80	-2.56	-3.47	-4.51	-5.70	-7.05
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.23	0.45	0.68	0.90	1.13	1.35	1.51	1.51	1.51	1.51
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

11'-E — 7 #3@ 30 — 10-E

BEAM: E(10-9) FLOOR: 1

Length: L = 4.21 m Lu = 3.06 m a = 0.25 m c = 0.90 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.56	0.86	1.17	1.48	1.78	2.09	2.40	2.70	3.01	3.31
Mu(-), ton-m:	-16.55	-17.09	-22.96	-29.24	-35.85	-42.75	-50.00	-57.67	-65.68	-74.03	-82.77
Mu(+), ton-m:	16.55	16.55	16.55	16.55	16.55	16.55	16.55	16.55	16.55	16.55	27.59
As(-), cm2:	10.71	10.71	10.71	12.52	15.48	18.63	22.00	25.65	29.56	33.74	38.25
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.79
vu, Kg/cm2:	10.19	10.19	10.19	10.38	10.57	10.76	10.95	11.14	11.31	11.31	11.31
Tu, ton-m:	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	30.00	15.00	15.00	15.00	15.00	15.00

DESIGN

10-E — 21 #3@ 15 — 9-E

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:51 a.m. 05/08/2010

BEAM: E(9-8) FLOOR: 1

Length: L = 8.07 m Lu = 8.06 m a = 0.00 m c = 0.00 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.81	1.62	2.42	3.23	4.04	4.84	5.65	6.45	7.26	8.07
Mu(-), ton-m:	-30.87	-17.28	-6.27	-6.27	-6.27	-6.27	-6.27	-6.27	-7.24	-18.04	-31.34
Mu(+), ton-m:	10.29	6.27	6.27	7.58	10.16	10.34	9.87	7.05	6.27	6.27	10.45
As(-), cm2:	13.25	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.45
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.12	4.96	4.15	3.34	2.54	1.87	2.66	3.43	4.15	4.87	5.02
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-E — 11 #3@ 15 15 #3@ 30 11 #3@ 15 — 8-E

BEAM: E(8-6') FLOOR: 1

Length: L = 6.64 m Lu = 5.74 m a = 0.90 m c = 0.00 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.90	1.47	2.04	2.62	3.19	3.77	4.34	4.91	5.49	6.06	6.63
Mu(-), ton-m:	-73.60	-59.25	-46.45	-35.08	-25.23	-16.78	-10.90	-6.58	-3.03	-0.83	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	33.52	26.41	20.34	15.13	10.75	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.23	7.23	6.56	5.79	5.02	4.26	3.06	2.30	1.53	0.77	0.00
Tu, ton-m:	0.08	0.08	0.08	0.08	0.08	0.08	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-E — 19 #3@ 30 — 6'-E

BEAM: E'(11'-10) FLOOR: 1

Length: L = 2.20 m Lu = 1.95 m a = 0.00 m c = 0.25 m Section: b = 30.0 cm h = 70.0 cm Sec: S30X70 Mat: RConcrete2

X, m:	0.00	0.19	0.39	0.58	0.78	0.97	1.17	1.36	1.56	1.75	1.95
Mu(-), ton-m:	0.00	-0.08	-0.28	-0.61	-1.06	-1.63	-2.33	-3.15	-4.10	-5.18	-6.41
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.34	0.68	1.02	1.37	1.71	2.05	2.29	2.29	2.29	2.29
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

11'-E' — 7 #3@ 30 — 10-E'

BEAM: E'(10-9) FLOOR: 1

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.71 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.62	0.99	1.36	1.73	2.11	2.48	2.85	3.22	3.59	3.96
Mu(-), ton-m:	-7.67	-6.81	-6.37	-6.35	-6.76	-7.68	-9.08	-11.00	-13.36	-16.21	-19.53
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.92	8.40
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.48	0.48	0.32	0.28	0.95	1.62	2.30	2.98	3.66	3.84	3.84
Tu, ton-m:	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-E' 13 #3@ 30 9-E'

BEAM: E'(9-8) FLOOR: 1

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-18.58	-8.65	-1.61	0.00	0.00	0.00	0.00	0.00	-1.50	-8.22	-17.72
Mu(+), ton-m:	0.00	0.04	0.95	4.94	8.39	9.48	8.29	4.88	0.82	0.00	0.00
As(-), cm2:	7.97	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.59
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.40	6.16	4.61	3.06	1.51	0.14	1.60	3.09	4.47	5.85	6.06
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-E' 26 #3@ 30 8-E'

BEAM: E'(8-6') FLOOR: 1

Length: L = 6.64 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 6.39 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.89	1.53	2.17	2.80	3.44	4.08	4.72	5.36	6.00	6.64
Mu(-), ton-m:	-18.61	-13.44	-9.77	-7.72	-7.25	-8.36	-10.08	-7.32	-3.29	-0.85	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	7.98	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	3.62	3.62	2.32	1.01	0.31	1.61	2.92	3.92	2.61	1.31	0.00
Tu, ton-m:	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-E' 22 #3@ 30 6'-E'

BEAM: F(11'-10) FLOOR: 1

Length: L = 2.20 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 1.95 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.19	0.39	0.58	0.78	0.97	1.17	1.36	1.56	1.75	1.95
Mu(-), ton-m:	-7.91	-6.06	-4.25	-2.47	-2.32	-2.32	-2.81	-4.96	-7.14	-9.36	-11.61
Mu(+), ton-m:	9.45	7.48	5.49	3.46	2.32	2.32	2.70	4.35	5.98	7.58	9.13
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	3.91	3.91	3.91	3.91	3.93	3.97	4.00	4.03	4.03	4.03	4.03
Tu, ton-m:	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

11'-F 13 #3@ 15 10-F

BEAM: F(10-9') FLOOR: 1

Length: L = 1.41 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 1.01 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.10	0.20	0.30	0.40	0.50	0.61	0.71	0.81	0.91	1.01
Mu(-), ton-m:	-32.02	-23.43	-14.85	-9.32	-9.32	-11.33	-18.33	-25.34	-32.41	-39.50	-46.62
Mu(+), ton-m:	23.21	16.35	9.48	9.32	9.32	10.70	19.16	27.59	35.98	44.34	52.68
As(-), cm2:	13.76	10.71	10.71	10.71	10.71	10.71	10.71	10.80	13.93	17.14	20.42
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.79	15.54	19.36	23.27
vu, Kg/cm2:	30.95	30.95	30.95	30.95	30.95	30.95	30.95	30.95	30.95	30.95	30.95
Tu, ton-m:	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
Stirrup:	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4
Spacing, cm:	7.73	7.73	7.73	7.73	7.73	7.73	7.73	7.73	7.73	7.73	7.73

DESIGN

10-F 14 #4@ 7.5 9'-F

BEAM: F(9'-9) FLOOR: 1

Length: L = 2.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.40 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.20	1.44	1.68	1.92	2.16	2.40
Mu(-), ton-m:	-5.24	-4.11	-3.02	-1.98	-1.90	-1.90	-1.90	-3.38	-5.37	-7.41	-9.50
Mu(+), ton-m:	9.14	7.49	5.79	4.05	2.26	1.90	1.90	1.90	2.51	3.26	3.96
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	3.03	3.03	3.03	3.04	3.08	3.12	3.16	3.20	3.22	3.22	3.22
Tu, ton-m:	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F 16 #3@ 15 9-F

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:51 a.m. 05/08/2010

BEAM: F(9-8') FLOOR: 1

Length: L = 5.27 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 4.87 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.49	0.97	1.46	1.95	2.44	2.92	3.41	3.90	4.38	4.87
Mu(-), ton-m:	-22.46	-15.66	-9.65	-6.44	-6.44	-6.44	-6.44	-8.88	-15.86	-23.63	-32.18
Mu(+), ton-m:	17.82	16.38	14.15	11.12	7.31	6.44	6.50	8.56	9.82	10.30	10.73
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.83
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	4.61	4.61	4.36	4.01	3.65	3.83	4.19	4.55	4.90	5.15	5.15
Tu, ton-m:	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-F 11 #3@ 15 5 #3@ 30 11 #3@ 15 8'-F

BEAM: F(8'-8) FLOOR: 1

Length: L = 2.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.40 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.20	1.44	1.68	1.92	2.16	2.40
Mu(-), ton-m:	-1.58	-1.58	-1.58	-1.58	-1.58	-1.58	-1.58	-2.89	-4.52	-6.19	-7.91
Mu(+), ton-m:	7.08	5.80	4.46	3.08	1.66	1.58	1.58	1.58	1.58	1.58	2.64
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.79	2.79	2.79	2.80	2.84	2.88	2.92	2.96	2.98	2.98	2.98
Tu, ton-m:	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F 16 #3@ 15 8-F

BEAM: F(8-7) FLOOR: 1

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	-16.98	-12.29	-8.12	-4.80	-4.80	-4.80	-4.80	-4.80	-10.34	-16.91	-23.98
Mu(+), ton-m:	23.31	20.95	18.05	14.64	10.69	6.22	4.80	4.84	5.86	6.35	7.99
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	4.53	4.53	4.42	4.17	4.46	4.76	5.05	5.35	5.64	5.75	5.75
Tu, ton-m:	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	30.00	30.00	30.00	15.00	15.00	15.00	15.00

DESIGN

8-F 27 #3@ 15 7-F

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:52 a.m. 05/08/2010

BEAM: F(7-6') FLOOR: 1

Length: L = 2.43 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.18 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.22	0.44	0.65	0.87	1.09	1.31	1.52	1.74	1.96	2.18
Mu(-), ton-m:	-11.13	-8.93	-6.77	-4.65	-2.57	-2.23	-2.23	-2.23	-2.23	-2.23	-2.62
Mu(+), ton-m:	3.71	2.26	2.23	2.23	2.23	2.23	2.23	3.44	5.37	7.25	9.10
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	4.14	4.14	4.14	4.14	4.10	4.06	4.02	3.98	3.98	3.98	3.98
Tu, ton-m:	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

7-F 15 #3@ 15 6'-F

BEAM: F1(10-9') FLOOR: 1

Length: L = 1.41 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 1.16 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.12	0.23	0.35	0.46	0.58	0.70	0.81	0.93	1.04	1.16
Mu(-), ton-m:	-6.13	-4.02	-4.02	-4.02	-5.88	-8.17	-10.49	-12.85	-15.24	-17.65	-20.10
Mu(+), ton-m:	4.37	4.02	4.02	4.02	6.43	9.16	11.86	14.52	17.16	19.77	22.35
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.48	6.53	7.62	8.73
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	6.22	7.39	8.58	9.76
vu, Kg/cm2:	17.97	17.97	17.97	17.97	17.97	17.97	17.97	17.97	17.97	17.97	17.97
Tu, ton-m:	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

10-F1 8 #3@ 15 9'-F1

BEAM: F1(9'-9) FLOOR: 1

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.77	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-0.71	-0.71	-0.71	-0.71	-0.71	-0.71	-0.71	-1.34	-2.05	-2.79	-3.55
Mu(+), ton-m:	2.87	2.34	1.80	1.25	0.71	0.71	0.71	0.71	0.71	0.71	1.18
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	2.10	2.10	2.10	2.12	2.16	2.21	2.25	2.30	2.32	2.32	2.32
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

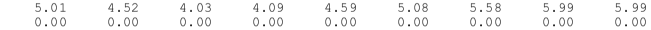
9'-F1 17 #3@ 15 9-F1

BEAM: F1(9-8') FLOOR: 1

Length: L = 5.27 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 5.02 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.50	1.00	1.51	2.01	2.51	3.01	3.51	4.02	4.52	5.02
Mu(-), ton-m:	-13.99	-9.64	-5.84	-3.73	-3.73	-3.73	-3.73	-4.60	-8.74	-13.43	-18.64
Mu(+), ton-m:	8.93	8.65	7.82	6.44	4.51	3.73	3.84	4.88	5.36	5.30	6.21
As(-), cm2:	5.98	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.73	8.07
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	5.37	5.37	5.01	4.52	4.03	4.09	4.59	5.08	5.58	5.99	5.99
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

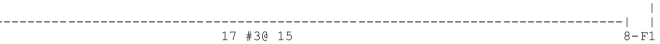


BEAM: F1(8'-8) FLOOR: 1

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.76	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-0.77	-0.77	-0.77	-0.77	-0.77	-0.77	-0.77	-1.40	-2.18	-2.99	-3.83
Mu(+), ton-m:	3.31	2.72	2.10	1.47	0.83	0.77	0.77	0.77	0.77	0.77	1.28
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	2.87	2.87	2.87	2.89	2.94	2.99	3.03	3.08	3.10	3.10	3.10
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN



BEAM: F1(8-7) FLOOR: 1

Length: L = 4.21 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	-8.31	-5.83	-3.70	-1.90	-1.66	-1.66	-1.66	-1.66	-1.66	-1.66	-3.99
Mu(+), ton-m:	6.21	6.73	6.91	6.75	6.24	5.39	4.19	2.90	2.11	1.67	1.66
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	3.34	3.34	3.13	2.64	2.26	1.87	2.14	2.69	3.23	3.44	3.44
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	30.00	30.00	30.00	15.00	15.00	15.00	15.00

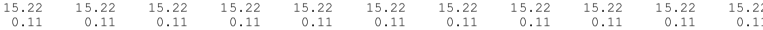
DESIGN

BEAM: F2(10-9') FLOOR: 1

Length: L = 1.41 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 1.16 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.12	0.23	0.35	0.46	0.58	0.70	0.81	0.93	1.04	1.16
Mu(-), ton-m:	-4.35	-4.35	-4.35	-4.93	-7.23	-9.57	-11.93	-14.34	-16.77	-19.23	-21.73
Mu(+), ton-m:	4.35	4.35	4.35	5.42	7.95	10.45	12.92	15.35	17.75	20.12	22.46
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	6.13	7.22	8.33	9.48
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.51	6.58	7.66	8.74	9.81
vu, Kg/cm2:	15.22	15.22	15.22	15.22	15.22	15.22	15.22	15.22	15.22	15.22	15.22
Tu, ton-m:	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN



BEAM: F2(9'-9) FLOOR: 1

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.77	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.67	-1.09	-1.54	-2.01
Mu(+), ton-m:	1.51	1.28	1.02	0.74	0.42	0.40	0.40	0.40	0.40	0.40	0.67
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	1.25	1.25	1.25	1.27	1.31	1.36	1.40	1.45	1.47	1.47	1.47
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

BEAM: F2(9-8') FLOOR: 1

Length: L = 5.27 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 5.02 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.50	1.00	1.51	2.01	2.51	3.01	3.51	4.02	4.52	5.02
Mu(-), ton-m:	-14.53	-9.97	-6.00	-3.80	-3.80	-3.80	-3.80	-4.53	-8.77	-13.60	-18.98
Mu(+), ton-m:	8.72	8.58	7.86	6.56	4.66	3.80	4.00	5.04	5.48	5.35	6.33
As(-), cm2:	6.22	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.81	8.22
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	5.53	5.53	5.15	4.62	4.10	4.09	4.61	5.14	5.66	6.17	6.17
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

BEAM: F2(8'-8) FLOOR: 1

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.76	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70	-1.36	-2.04	-2.75	-3.48
Mu(+), ton-m:	2.66	2.17	1.65	1.10	0.70	0.70	0.70	0.70	0.70	0.70	1.16
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	2.54	2.54	2.54	2.56	2.60	2.65	2.70	2.74	2.76	2.76	2.76
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F2 17 #3@ 15 8-F2

BEAM: F2(8-7) FLOOR: 1

Length: L = 4.21 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	-8.94	-6.32	-4.06	-2.16	-1.79	-1.79	-1.79	-1.79	-1.79	-1.79	-1.93
Mu(+), ton-m:	5.11	6.04	6.61	6.81	6.65	6.13	5.24	3.99	2.55	1.79	1.79
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	3.53	3.53	3.31	2.86	2.45	2.04	1.83	2.26	2.84	3.06	3.06
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	30.00	30.00	30.00	15.00	15.00	15.00	15.00

DESIGN

8-F2 27 #3@ 15 7-F2

BEAM: F3(10-9') FLOOR: 1

Length: L = 1.41 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 1.16 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.12	0.23	0.35	0.46	0.58	0.70	0.81	0.93	1.04	1.16
Mu(-), ton-m:	-5.28	-4.55	-4.55	-4.55	-7.03	-9.56	-12.14	-14.75	-17.39	-20.06	-22.76
Mu(+), ton-m:	4.58	4.55	4.55	5.08	7.89	10.67	13.41	16.12	18.79	21.44	24.05
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	6.32	7.50	8.71	9.95
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.72	6.93	8.13	9.34	10.56
vu, Kg/cm2:	18.08	18.08	18.08	18.08	18.08	18.08	18.08	18.08	18.08	18.08	18.08
Tu, ton-m:	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

10-F3 8 #3@ 15 9'-F3

BEAM: F3(9'-9) FLOOR: 1

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.77	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-0.76	-0.76	-0.76	-0.76	-0.76	-0.76	-0.76	-1.44	-2.20	-2.99	-3.80
Mu(+), ton-m:	3.11	2.54	1.94	1.32	0.76	0.76	0.76	0.76	0.76	0.76	1.27
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	2.27	2.27	2.27	2.29	2.34	2.39	2.43	2.48	2.50	2.50	2.50
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F3 17 #3@ 15 9-F3

BEAM: F3(9-8') FLOOR: 1

Length: L = 5.27 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 5.02 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.50	1.00	1.51	2.01	2.51	3.01	3.51	4.02	4.52	5.02
Mu(-), ton-m:	-13.37	-9.01	-5.25	-3.57	-3.57	-3.57	-3.57	-4.06	-8.07	-12.68	-17.85
Mu(+), ton-m:	7.25	7.43	7.01	5.99	4.38	3.57	3.80	4.57	4.74	4.31	5.95
As(-), cm2:	5.70	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.40	7.70
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	5.22	5.22	4.83	4.29	3.76	3.72	4.25	4.79	5.36	5.90	5.90
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-F3 11 #3@ 15 5 #3@ 30 11 #3@ 15 8'-F3

BEAM: F3(8'-8) FLOOR: 1

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.76	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75	-0.75	-1.37	-2.12	-2.93	-3.77
Mu(+), ton-m:	3.46	2.86	2.23	1.57	0.89	0.75	0.75	0.75	0.75	0.75	1.26
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	3.00	3.00	3.00	3.03	3.07	3.12	3.16	3.21	3.23	3.23	3.23
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F3 17 #3@ 15 8-F3

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:52 a.m. 05/08/2010

BEAM: F3(8-7) FLOOR: 1

Length:	L = 4.21 m		a = 0.00 m	Section:	b = 25.0 cm		Sec:	S25X70		
	Lu = 3.96 m		c = 0.25 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	-8.56	-5.95	-3.71	-1.85	-1.71	-1.71	-1.71	-1.71	-1.71	-1.71	-2.47
Mu(+), ton-m:	5.33	6.22	6.73	6.88	6.66	6.06	5.09	3.75	2.62	1.75	1.71
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	3.50	3.50	3.27	2.72	2.30	1.89	1.83	2.40	2.99	3.22	3.22
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	30.00	30.00	30.00	15.00	15.00	15.00	15.00

DESIGN

8-F3 — 27 #3@ 15 — 7-F3

BEAM: G(10-9') FLOOR: 1

Length:	L = 1.41 m		a = 0.00 m	Section:	b = 50.0 cm		Sec:	S50X70		
	Lu = 1.01 m		c = 0.40 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.00	0.10	0.20	0.30	0.40	0.50	0.61	0.71	0.81	0.91	1.01
Mu(-), ton-m:	-7.97	-7.97	-7.97	-9.80	-13.99	-18.21	-22.47	-26.75	-31.09	-35.45	-39.86
Mu(+), ton-m:	7.97	7.97	7.97	13.49	19.73	25.92	32.08	38.22	44.30	50.35	56.37
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.42	13.34	15.30	17.30
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	11.05	13.79	16.55	19.34	22.17	25.03
vu, Kg/cm2:	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61	23.61
Tu, ton-m:	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
Stirrup:	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4
Spacing, cm:	11.26	11.26	11.26	11.26	11.26	11.26	11.26	11.26	11.26	11.26	11.26

DESIGN

10-G — 11 #4@ 10 — 9'-G

BEAM: G(9'-9) FLOOR: 1

Length:	L = 2.80 m		a = 0.00 m	Section:	b = 50.0 cm		Sec:	S50X70		
	Lu = 2.40 m		c = 0.40 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.00	0.24	0.48	0.72	0.96	1.20	1.44	1.68	1.92	2.16	2.40
Mu(-), ton-m:	-2.59	-1.97	-1.75	-1.75	-1.75	-1.75	-1.75	-3.12	-4.94	-6.82	-8.74
Mu(+), ton-m:	8.27	6.78	5.25	3.67	2.04	1.75	1.75	1.75	1.75	1.75	2.91
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.96	2.96	2.96	2.97	3.01	3.06	3.10	3.14	3.15	3.15	3.15
Tu, ton-m:	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-G — 16 #3@ 15 — 9-G

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:52 a.m. 05/08/2010

BEAM: G(9-8') FLOOR: 1

Length:	L = 5.27 m		a = 0.00 m	Section:	b = 50.0 cm		Sec:	S50X70			
	Lu = 4.87 m		c = 0.40 m		h = 70.0 cm		Mat:	RConcrete2			
X, m:	0.00	0.49	0.97	1.46	1.95	2.44	2.92	3.41	3.90	4.38	4.87
Mu(-), ton-m:	-20.75	-14.22	-8.51	-6.01	-6.01	-6.01	-6.01	-7.87	-14.45	-21.84	-30.04
Mu(+), ton-m:	15.28	14.42	12.75	10.26	6.96	6.01	6.15	7.77	8.58	8.57	10.01
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.87
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	4.34	4.34	4.09	3.72	3.35	3.48	3.85	4.21	4.58	4.86	4.86
Tu, ton-m:	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-G — 11 #3@ 15 5 #3@ 30 11 #3@ 15 — 8'-G

BEAM: G(8'-8) FLOOR: 1

Length:	L = 2.80 m		a = 0.00 m	Section:	b = 50.0 cm		Sec:	S50X70			
	Lu = 2.40 m		c = 0.40 m		h = 70.0 cm		Mat:	RConcrete2			
X, m:	0.00	0.24	0.48	0.72	0.96	1.20	1.44	1.68	1.92	2.16	2.40
Mu(-), ton-m:	-1.41	-1.41	-1.41	-1.41	-1.41	-1.41	-1.41	-2.58	-4.03	-5.52	-7.07
Mu(+), ton-m:	6.14	5.04	3.88	2.68	1.43	1.41	1.41	1.41	1.41	1.41	2.36
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.72	2.72	2.72	2.73	2.77	2.81	2.86	2.90	2.91	2.91	2.91
Tu, ton-m:	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-G — 16 #3@ 15 — 8-G

BEAM: G(8-7) FLOOR: 1

Length:	L = 4.21 m		a = 0.00 m	Section:	b = 50.0 cm		Sec:	S50X70			
	Lu = 3.96 m		c = 0.25 m		h = 70.0 cm		Mat:	RConcrete2			
X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	-13.17	-9.27	-5.92	-3.11	-2.63	-2.63	-2.63	-2.63	-2.63	-2.63	-2.76
Mu(+), ton-m:	12.03	13.00	13.42	13.29	12.62	11.41	9.66	7.36	4.52	2.63	2.63
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.62	2.62	2.45	2.02	1.70	1.39	1.59	2.02	2.45	2.62	2.62
Tu, ton-m:	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	30.00	30.00	30.00	15.00	15.00	15.00	15.00

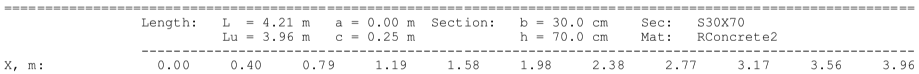
DESIGN

8-G — 27 #3@ 15 — 7-G

BEAM: G'(10-9) FLOOR: 1

Length: L = 4.21 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

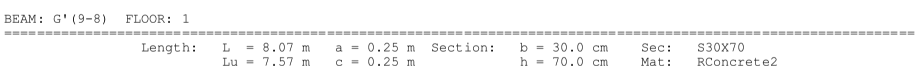
X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	-3.74	-2.09	-1.03	-0.56	-0.69	-1.38	-2.57	-4.30	-6.55	-9.32	-12.62
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	1.32	1.32	1.02	0.24	0.52	1.21	1.91	2.61	3.31	3.57	3.57
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00



BEAM: G'(9-8) FLOOR: 1

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-12.41	-3.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-3.80	-12.25
Mu(+), ton-m:	0.00	0.91	4.78	10.08	13.35	14.34	13.13	9.76	4.37	0.80	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.13	5.90	4.40	2.91	1.41	0.15	1.59	3.02	4.36	5.69	5.90
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00



BEAM: G'(8-7) FLOOR: 1

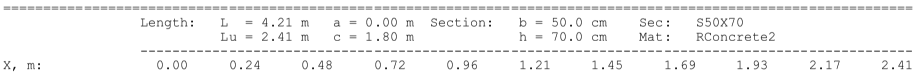
Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.71 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.62	0.99	1.36	1.73	2.11	2.48	2.85	3.22	3.59	3.96
Mu(-), ton-m:	-12.23	-9.01	-6.28	-4.05	-2.33	-1.11	-0.55	-0.51	-0.98	-1.95	-3.40
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	3.66	3.66	3.45	2.72	1.99	1.26	0.52	0.25	0.98	1.18	1.18
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

BEAM: H(10-9) FLOOR: 1

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 1.80 m h = 70.0 cm Mat: RConcrete2

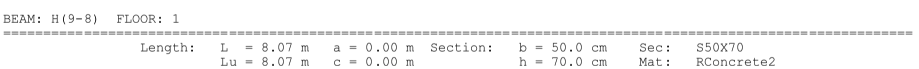
X, m:	0.00	0.24	0.48	0.72	0.96	1.21	1.45	1.69	1.93	2.17	2.41
Mu(-), ton-m:	-5.22	-2.24	-2.20	-2.20	-2.20	-2.21	-3.51	-4.92	-6.72	-8.66	-11.00
Mu(+), ton-m:	2.20	2.20	2.20	4.63	7.45	10.07	12.37	14.58	16.39	18.06	19.33
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	4.72	4.72	4.72	4.64	4.41	4.18	3.98	3.90	3.87	3.87	3.87
Tu, ton-m:	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00



BEAM: H(9-8) FLOOR: 1

Length: L = 8.07 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 8.07 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

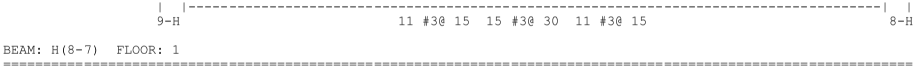
X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-27.94	-14.86	-5.79	-5.79	-5.79	-5.79	-5.79	-5.79	-5.79	-16.01	-28.95
Mu(+), ton-m:	9.31	5.79	5.79	9.41	11.78	11.75	11.22	8.49	5.79	5.79	9.65
As(-), cm2:	11.94	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.39
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	4.84	4.68	3.90	3.12	2.35	1.73	2.50	3.24	3.94	4.64	4.78
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00



BEAM: H(8-7) FLOOR: 1

Length: L = 4.21 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.16 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.01	2.23	2.45	2.66	2.88	3.10	3.31	3.53	3.74	3.96
Mu(-), ton-m:	-7.57	-5.75	-4.26	-3.01	-1.99	-1.51	-1.51	-1.51	-1.51	-1.51	-2.61
Mu(+), ton-m:	23.93	22.35	20.45	18.31	15.93	13.41	10.64	7.75	4.59	1.51	1.51
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.45	5.45	5.45	5.46	5.56	5.67	5.78	5.88	5.89	5.89	5.89
Tu, ton-m:	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00



BEAM: H1(10-9) FLOOR: 1

Length:	L = 4.21 m		a = 0.00 m	Section:	b = 30.0 cm		Sec:	S30X70		
	Lu = 3.96 m		c = 0.25 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	-3.31	-1.73	-0.74	-0.33	-0.50	-1.24	-2.47	-4.24	-6.51	-9.30	-12.62
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	1.24	1.24	0.94	0.17	0.58	1.27	1.96	2.65	3.34	3.60	3.60
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-H1 — 14 #3@ 30 — 9-H1

BEAM: H1(9-8) FLOOR: 1

Length:	L = 8.07 m		a = 0.25 m	Section:	b = 30.0 cm		Sec:	S30X70		
	Lu = 7.57 m		c = 0.25 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-12.44	-3.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-4.13	-12.63
Mu(+), ton-m:	0.00	0.84	4.48	9.68	12.87	13.82	12.58	9.23	3.86	0.68	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.04	5.81	4.33	2.85	1.37	0.15	1.59	3.01	4.33	5.65	5.85
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-H1 — 26 #3@ 30 — 8-H1

BEAM: H1(8-7) FLOOR: 1

Length:	L = 4.21 m		a = 0.25 m	Section:	b = 30.0 cm		Sec:	S30X70		
	Lu = 3.71 m		c = 0.25 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.25	0.62	0.99	1.36	1.73	2.11	2.48	2.85	3.22	3.59	3.96
Mu(-), ton-m:	-12.60	-9.33	-6.53	-4.24	-2.44	-1.15	-0.50	-0.36	-0.72	-1.57	-2.90
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	3.74	3.74	3.54	2.82	2.09	1.37	0.65	0.10	0.82	1.02	1.02
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-H1 — 13 #3@ 30 — 7-H1

BEAM: I(11-11') FLOOR: 1

Length:	L = 3.52 m		a = 0.00 m	Section:	b = 50.0 cm		Sec:	S50X70		
	Lu = 3.27 m		c = 0.25 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.00	0.33	0.65	0.98	1.31	1.64	1.96	2.29	2.62	2.94	3.27
Mu(-), ton-m:	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.55	-2.62	-3.77	-5.01
Mu(+), ton-m:	3.41	2.96	2.43	1.81	1.11	1.00	1.00	1.00	1.00	1.00	1.67
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.97	0.97	0.98	1.04	1.10	1.16	1.22	1.28	1.34	1.34	1.34
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	30.00	15.00	15.00	15.00	15.00	15.00

DESIGN

11-I — 22 #3@ 15 — 11'-I

BEAM: I(11'-10) FLOOR: 1

Length:	L = 2.20 m		a = 0.00 m	Section:	b = 50.0 cm		Sec:	S50X70		
	Lu = 1.97 m		c = 0.23 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.00	0.20	0.39	0.59	0.79	0.99	1.18	1.38	1.58	1.78	1.97
Mu(-), ton-m:	-2.68	-2.23	-1.94	-1.71	-1.51	-1.33	-1.20	-1.09	-1.01	-0.97	-0.96
Mu(+), ton-m:	0.89	0.54	0.54	0.54	0.54	0.54	0.99	1.42	1.81	2.18	2.51
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	1.37	1.37	1.37	1.37	1.34	1.30	1.27	1.24	1.24	1.24	1.24
Tu, ton-m:	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

11'-I — 13 #3@ 15 — 10-I

BEAM: I(10-9) FLOOR: 1

Length:	L = 4.21 m		a = 0.23 m	Section:	b = 50.0 cm		Sec:	S50X70		
	Lu = 2.19 m		c = 1.80 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.23	0.44	0.66	0.88	1.10	1.32	1.54	1.76	1.97	2.19	2.41
Mu(-), ton-m:	-11.17	-7.48	-4.33	-2.55	-2.79	-3.81	-5.21	-6.73	-8.50	-10.47	-12.75
Mu(+), ton-m:	3.72	2.55	2.55	2.55	2.85	5.34	8.05	10.63	12.97	15.10	16.92
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.63	5.63	5.63	5.62	5.45	5.29	5.18	5.11	5.10	5.10	5.10
Tu, ton-m:	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

10-I — 15 #3@ 15 — 9-I

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:52 a.m. 05/08/2010

BEAM: I(9-8) FLOOR: 1

Length: L = 8.07 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 8.07 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-28.98	-15.42	-5.80	-5.80	-5.80	-5.80	-5.80	-5.80	-5.80	-15.61	-28.81
Mu(+), ton-m:	9.66	5.80	5.80	9.34	12.04	12.12	11.52	8.65	5.80	5.80	9.60
As(-), cm2:	12.40	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.33
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.01	4.84	4.03	3.23	2.42	1.73	2.52	3.28	4.01	4.74	4.89
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-I 11 #3@ 15 15 #3@ 30 11 #3@ 15 8-I

BEAM: I(8-7) FLOOR: 1

Length: L = 4.21 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.16 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.01	2.23	2.45	2.66	2.88	3.10	3.31	3.53	3.74	3.96
Mu(-), ton-m:	-9.25	-7.15	-5.47	-5.47	-5.47	-5.47	-5.47	-7.68	-13.65	-20.35	-27.34
Mu(+), ton-m:	33.09	28.10	22.77	17.21	11.41	5.47	5.47	5.47	5.47	5.47	9.11
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.68
As(+), cm2:	14.24	12.01	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	12.61	12.61	12.61	12.62	12.73	12.84	12.94	13.05	13.06	13.06	13.06
Tu, ton-m:	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8-I 15 #3@ 15 7-I

BEAM: I(7-6') FLOOR: 1

Length: L = 2.43 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.18 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.22	0.44	0.65	0.87	1.09	1.31	1.52	1.74	1.96	2.18
Mu(-), ton-m:	-14.11	-11.35	-8.62	-5.94	-3.29	-2.82	-2.82	-2.82	-2.82	-2.82	-2.82
Mu(+), ton-m:	4.70	2.82	2.82	2.82	2.82	2.82	2.82	4.42	6.91	9.36	11.78
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.56	5.56	5.56	5.56	5.52	5.48	5.44	5.40	5.40	5.40	5.40
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

7-I 15 #3@ 15 6'-I

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:52 a.m. 05/08/2010

BEAM: I1(11-10) FLOOR: 1

Length: L = 5.72 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 5.47 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.55	1.09	1.64	2.19	2.74	3.28	3.83	4.38	4.92	5.47
Mu(-), ton-m:	0.00	-0.67	-2.45	-5.40	-9.56	-14.85	-21.34	-28.94	-37.59	-47.24	-57.88
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	9.21	12.71	16.84	21.84	28.19
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	1.12	2.24	3.36	4.48	5.60	6.72	7.75	8.71	9.50	9.50
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

11-I1 19 #3@ 30 10-I1

BEAM: I1(10-9) FLOOR: 1

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.71 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.62	0.99	1.36	1.73	2.11	2.48	2.85	3.22	3.59	3.96
Mu(-), ton-m:	-55.52	-49.06	-43.02	-37.40	-32.22	-27.53	-23.34	-19.66	-16.42	-13.67	-11.38
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	26.74	22.89	19.54	16.75	14.25	12.05	10.12	8.46	7.01	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	8.34	8.34	8.18	7.59	6.92	6.24	5.57	4.89	4.21	4.03	4.03
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-I1 13 #3@ 30 9-I1

BEAM: I1(9-8) FLOOR: 1

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-8.44	-1.53	0.00	0.00	0.00	0.00	0.00	0.00	-0.31	-6.72	-16.93
Mu(+), ton-m:	0.29	2.41	7.87	12.47	14.96	15.09	12.94	8.56	2.37	0.27	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.24
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	5.74	5.50	3.95	2.40	0.85	0.71	2.26	3.75	5.13	6.51	6.73
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-I1 26 #3@ 30 8-I1

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:52 a.m. 05/08/2010

BEAM: I1(8-6') FLOOR: 1

Length: L = 6.64 m Lu = 6.39 m a = 0.25 m c = 0.00 m Section: b = 30.0 cm h = 70.0 cm Sec: S30X70 Mat: RConcrete2

X, m:	0.25	0.89	1.53	2.17	2.80	3.44	4.08	4.72	5.36	6.00	6.64
Mu(-), ton-m:	-17.80	-12.91	-9.48	-7.63	-7.30	-8.52	-10.25	-7.32	-3.29	-0.85	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	7.62	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	3.41	3.41	2.14	0.87	0.40	1.67	2.94	3.92	2.61	1.31	0.00
Tu, ton-m:	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-I1 — 22 #3@ 30 — 6'-I1

BEAM: J(11-10) FLOOR: 1

Length: L = 5.72 m Lu = 5.47 m a = 0.00 m c = 0.25 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.55	1.09	1.64	2.19	2.74	3.28	3.83	4.38	4.92	5.47
Mu(-), ton-m:	0.00	-0.71	-2.60	-5.73	-10.15	-15.77	-22.67	-30.75	-39.95	-50.23	-61.58
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.19	17.34	22.11	27.55
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.71	1.43	2.14	2.86	3.57	4.28	4.94	5.56	6.08	6.08
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

11-J — 19 #3@ 30 — 10-J

BEAM: J(10-9) FLOOR: 1

Length: L = 4.21 m Lu = 2.16 m a = 0.25 m c = 1.80 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.47	0.68	0.90	1.11	1.33	1.55	1.76	1.98	2.20	2.41
Mu(-), ton-m:	-45.97	-39.25	-32.76	-26.91	-22.88	-19.27	-16.62	-14.10	-11.80	-9.71	-9.19
Mu(+), ton-m:	15.32	9.19	9.19	9.19	9.19	9.19	9.19	9.19	9.19	9.19	13.37
As(-), cm2:	20.12	17.02	14.09	11.49	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	14.55	14.55	14.55	14.54	14.40	14.26	14.17	14.10	14.10	14.10	14.10
Tu, ton-m:	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	14.53	14.53	14.53	14.54	14.84	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

10-J — 17 #3@ 12.5 — 9-J

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:52 a.m. 05/08/2010

BEAM: J(9-8) FLOOR: 1

Length: L = 8.07 m Lu = 8.07 m a = 0.00 m c = 0.00 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-27.57	-14.51	-6.09	-6.09	-6.09	-6.09	-6.09	-6.09	-6.35	-17.18	-30.45
Mu(+), ton-m:	9.19	6.09	6.09	9.35	11.64	11.54	10.80	7.78	6.09	6.09	10.15
As(-), cm2:	11.78	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.06
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	4.90	4.73	3.94	3.16	2.37	1.84	2.63	3.38	4.09	4.80	4.95
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-J — 11 #3@ 15 15 #3@ 30 11 #3@ 15 — 8-J

BEAM: J(8-6') FLOOR: 1

Length: L = 6.64 m Lu = 4.84 m a = 1.80 m c = 0.00 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	1.80	2.28	2.77	3.25	3.73	4.22	4.70	5.18	5.67	6.15	6.64
Mu(-), ton-m:	-76.47	-61.23	-47.13	-34.12	-22.29	-13.47	-7.91	-4.56	-2.21	-0.69	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	34.99	27.38	20.66	14.70	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	9.11	9.11	8.69	8.06	7.42	5.26	2.52	1.89	1.26	0.63	0.00
Tu, ton-m:	0.42	0.42	0.42	0.42	0.42	0.24	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-J — 16 #3@ 30 — 6'-J

BEAM: J1(11-10) FLOOR: 1

Length: L = 5.72 m Lu = 5.47 m a = 0.00 m c = 0.25 m Section: b = 30.0 cm h = 70.0 cm Sec: S30X70 Mat: RConcrete2

X, m:	0.00	0.55	1.09	1.64	2.19	2.74	3.28	3.83	4.38	4.92	5.47
Mu(-), ton-m:	0.00	-0.67	-2.45	-5.40	-9.56	-14.85	-21.34	-28.94	-37.59	-47.24	-57.88
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	9.21	12.71	16.84	21.84	28.19
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	1.12	2.24	3.36	4.48	5.60	6.72	7.75	8.71	9.50	9.50
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

11-J1 — 19 #3@ 30 — 10-J1

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:52 a.m. 05/08/2010

BEAM: J1(10-9) FLOOR: 1

Length: L = 4.21 m Lu = 3.71 m | a = 0.25 m c = 0.25 m | Section: b = 30.0 cm h = 70.0 cm | Sec: S30X70 Mat: RConcrete2

X, m:	0.25	0.62	0.99	1.36	1.73	2.11	2.48	2.85	3.22	3.59	3.96
Mu(-), ton-m:	-55.81	-49.20	-43.00	-37.22	-31.89	-27.05	-22.69	-18.86	-15.46	-12.55	-10.11
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	26.92	22.97	19.53	16.66	14.09	11.82	9.82	8.10	6.59	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	8.56	8.56	8.40	7.81	7.14	6.46	5.78	5.11	4.43	4.24	4.24
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-J1 — 13 #3@ 30 — 9-J1

BEAM: J1(9-8) FLOOR: 1

Length: L = 8.07 m Lu = 7.57 m | a = 0.25 m c = 0.25 m | Section: b = 30.0 cm h = 70.0 cm | Sec: S30X70 Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-7.25	-1.15	0.00	0.00	0.00	0.00	0.00	0.00	-2.66	-10.93	-22.04
Mu(+), ton-m:	0.39	2.69	7.89	11.84	13.69	13.19	10.39	5.37	0.87	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	9.53
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	5.30	5.06	3.51	1.96	0.41	1.15	2.70	4.19	5.57	6.95	7.17
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-J1 — 26 #3@ 30 — 8-J1

BEAM: J1(8-6') FLOOR: 1

Length: L = 6.64 m Lu = 6.39 m | a = 0.25 m c = 0.00 m | Section: b = 30.0 cm h = 70.0 cm | Sec: S30X70 Mat: RConcrete2

X, m:	0.25	0.89	1.53	2.17	2.80	3.44	4.08	4.72	5.36	6.00	6.64
Mu(-), ton-m:	-23.20	-17.40	-13.10	-10.43	-9.33	-9.82	-10.86	-7.32	-3.29	-0.85	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.05	7.45	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	4.13	4.13	2.83	1.52	0.21	1.10	2.40	3.92	2.61	1.31	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-J1 — 22 #3@ 30 — 6'-J1

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:52 a.m. 05/08/2010

BEAM: K(11-10) FLOOR: 1

Length: L = 5.72 m Lu = 5.47 m | a = 0.00 m c = 0.25 m | Section: b = 50.0 cm h = 70.0 cm | Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.55	1.09	1.64	2.19	2.74	3.28	3.83	4.38	4.92	5.47
Mu(-), ton-m:	0.00	-0.73	-2.66	-5.86	-10.38	-16.12	-23.16	-31.42	-40.82	-51.32	-62.92
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.49	17.74	22.63	28.20
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.73	1.46	2.19	2.92	3.65	4.38	5.05	5.68	6.21	6.21
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

11-K — 19 #3@ 30 — 10-K

BEAM: K(10-9) FLOOR: 1

Length: L = 4.21 m Lu = 2.16 m | a = 0.25 m c = 1.80 m | Section: b = 50.0 cm h = 70.0 cm | Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.47	0.68	0.90	1.11	1.33	1.55	1.76	1.98	2.20	2.41
Mu(-), ton-m:	-46.81	-39.98	-33.39	-27.36	-22.93	-19.03	-16.31	-13.71	-11.35	-9.36	-9.36
Mu(+), ton-m:	15.60	9.36	9.36	9.36	9.36	9.36	9.36	9.36	9.36	9.36	13.43
As(-), cm2:	20.51	17.36	14.37	11.69	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	14.79	14.79	14.79	14.78	14.64	14.50	14.40	14.33	14.33	14.33	14.33
Tu, ton-m:	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	14.05	14.05	14.05	14.06	14.34	14.63	14.84	14.99	15.00	15.00	15.00

DESIGN

10-K — 17 #3@ 12.5 — 9-K

BEAM: K(9-8) FLOOR: 1

Length: L = 8.07 m Lu = 8.07 m | a = 0.00 m c = 0.00 m | Section: b = 50.0 cm h = 70.0 cm | Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-27.78	-14.52	-6.16	-6.16	-6.16	-6.16	-6.16	-6.16	-6.34	-17.33	-30.81
Mu(+), ton-m:	9.26	6.16	6.16	9.36	11.77	11.70	10.88	7.71	6.16	6.16	10.27
As(-), cm2:	11.87	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.22
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	4.98	4.82	4.01	3.20	2.40	1.86	2.67	3.44	4.16	4.89	5.04
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-K — 11 #3@ 15 15 #3@ 30 11 #3@ 15 — 8-K

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:52 a.m. 05/08/2010

BEAM: K(8-6') FLOOR: 1

	Length:	L = 6.64 m Lu = 4.84 m	a = 1.80 m c = 0.00 m	Section:	b = 50.0 cm h = 70.0 cm	Sec: Mat:	S50X70 RConcrete2			
X, m:	1.80	2.28	2.77	3.25	3.73	4.22	4.70	5.18	5.67	6.15	6.64
Mu(-), ton-m:	-88.50	-70.87	-54.41	-39.06	-24.92	-14.47	-8.08	-4.66	-2.26	-0.70	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	41.36	32.14	24.09	16.94	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	10.64	10.64	10.20	9.56	8.91	6.14	2.58	1.93	1.29	0.64	0.00
Tu, ton-m:	0.12	0.12	0.12	0.12	0.12	0.07	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-K 16 #3@ 30 6'-K

BEAM: K1(11-10) FLOOR: 1

	Length:	L = 5.72 m Lu = 5.47 m	a = 0.00 m c = 0.25 m	Section:	b = 30.0 cm h = 70.0 cm	Sec: Mat:	S30X70 RConcrete2			
X, m:	0.00	0.55	1.09	1.64	2.19	2.74	3.28	3.83	4.38	4.92	5.47
Mu(-), ton-m:	0.00	-0.67	-2.45	-5.40	-9.56	-14.85	-21.34	-28.94	-37.59	-47.24	-57.88
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	9.21	12.71	16.84	21.84	28.19
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	1.12	2.24	3.36	4.48	5.60	6.72	7.75	8.71	9.50	9.50
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

11-K1 19 #3@ 30 10-K1

BEAM: K1(10-9) FLOOR: 1

	Length:	L = 4.21 m Lu = 3.71 m	a = 0.25 m c = 0.25 m	Section:	b = 30.0 cm h = 70.0 cm	Sec: Mat:	S30X70 RConcrete2			
X, m:	0.25	0.62	0.99	1.36	1.73	2.11	2.48	2.85	3.22	3.59	3.96
Mu(-), ton-m:	-55.82	-49.24	-43.07	-37.32	-32.02	-27.21	-22.89	-19.09	-15.72	-12.84	-10.43
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	26.92	23.00	19.56	16.71	14.16	11.90	9.91	8.20	6.70	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	8.52	8.52	8.36	7.76	7.10	6.42	5.74	5.07	4.39	4.20	4.20
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-K1 13 #3@ 30 9-K1

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:52 a.m. 05/08/2010

BEAM: K1(9-8) FLOOR: 1

	Length:	L = 8.07 m Lu = 7.57 m	a = 0.25 m c = 0.25 m	Section:	b = 30.0 cm h = 70.0 cm	Sec: Mat:	S30X70 RConcrete2			
X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-7.53	-1.25	0.00	0.00	0.00	0.00	0.00	0.00	-2.28	-10.39	-21.40
Mu(+), ton-m:	0.35	2.56	7.75	11.80	13.75	13.34	10.64	5.72	0.94	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	9.24
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	5.36	5.12	3.57	2.02	0.48	1.09	2.64	4.12	5.50	6.89	7.10
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-K1 26 #3@ 30 8-K1

BEAM: K1(8-6') FLOOR: 1

	Length:	L = 6.64 m Lu = 6.39 m	a = 0.25 m c = 0.00 m	Section:	b = 30.0 cm h = 70.0 cm	Sec: Mat:	S30X70 RConcrete2			
X, m:	0.25	0.89	1.53	2.17	2.80	3.44	4.08	4.72	5.36	6.00	6.64
Mu(-), ton-m:	-22.54	-16.89	-12.73	-10.20	-9.25	-9.88	-11.02	-7.32	-3.29	-0.85	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	9.75	7.22	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	4.01	4.01	2.71	1.40	0.10	1.21	2.52	3.92	2.61	1.31	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-K1 22 #3@ 30 6'-K1

BEAM: L(11-10) FLOOR: 1

	Length:	L = 5.72 m Lu = 5.47 m	a = 0.00 m c = 0.25 m	Section:	b = 50.0 cm h = 70.0 cm	Sec: Mat:	S50X70 RConcrete2			
X, m:	0.00	0.55	1.09	1.64	2.19	2.74	3.28	3.83	4.38	4.92	5.47
Mu(-), ton-m:	0.00	-0.73	-2.66	-5.86	-10.38	-16.12	-23.16	-31.42	-40.82	-51.32	-62.92
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.49	17.74	22.63	28.20
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.73	1.46	2.19	2.92	3.65	4.38	5.05	5.68	6.21	6.21
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

11-L 19 #3@ 30 10-L

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:52 a.m. 05/08/2010

BEAM: L(10-9) FLOOR: 1

Length: L = 4.21 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.16 m c = 1.80 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.47	0.68	0.90	1.11	1.33	1.55	1.76	1.98	2.19	2.41
Mu(-), ton-m:	-47.24	-40.05	-33.11	-26.94	-23.02	-19.66	-17.51	-15.50	-13.72	-12.14	-10.87
Mu(+), ton-m:	15.75	9.45	9.45	9.45	9.45	9.45	9.45	9.45	9.45	11.13	16.58
As(-), cm2:	20.71	17.39	14.24	11.50	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	15.25	15.25	15.25	15.25	15.10	14.96	14.87	14.80	14.79	14.79	14.79
Tu, ton-m:	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	13.20	13.20	13.20	13.21	13.46	13.72	13.90	14.03	14.04	14.04	14.04

DESIGN

10-L 17 #3@ 12.5 9-L

BEAM: L(9-8) FLOOR: 1

Length: L = 8.07 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 6.27 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.43	3.05	3.68	4.31	4.93	5.56	6.19	6.81	7.44	8.07
Mu(-), ton-m:	-23.69	-13.82	-6.42	-4.78	-4.78	-4.78	-4.78	-4.78	-7.52	-15.02	-23.91
Mu(+), ton-m:	7.90	4.78	5.38	7.18	7.59	7.11	7.27	6.34	4.78	4.78	7.97
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	4.16	4.16	3.34	2.51	1.95	1.98	2.46	3.03	3.59	4.16	4.16
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-L 11 #3@ 15 9 #3@ 30 11 #3@ 15 8-L

BEAM: L(8-6') FLOOR: 1

Length: L = 6.64 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 4.84 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.28	2.77	3.25	3.73	4.22	4.70	5.18	5.67	6.15	6.64
Mu(-), ton-m:	-85.46	-68.45	-52.61	-37.88	-24.36	-14.31	-8.08	-4.66	-2.26	-0.70	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	39.67	30.93	23.24	16.40	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	10.24	10.24	9.80	9.16	8.51	5.91	2.58	1.93	1.29	0.64	0.00
Tu, ton-m:	0.08	0.08	0.08	0.08	0.08	0.05	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-L 16 #3@ 30 6'-L

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:53 a.m. 05/08/2010

BEAM: L1(11-10) FLOOR: 1

Length: L = 5.72 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 5.47 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.55	1.09	1.64	2.19	2.74	3.28	3.83	4.38	4.92	5.47
Mu(-), ton-m:	0.00	-0.67	-2.45	-5.40	-9.56	-14.85	-21.34	-28.94	-37.59	-47.24	-57.88
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	9.21	12.71	16.84	21.84	28.19
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	1.12	2.24	3.36	4.48	5.60	6.72	7.75	8.71	9.50	9.50
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

11-L1 19 #3@ 30 10-L1

BEAM: L1(10-9) FLOOR: 1

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.71 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.62	0.99	1.36	1.73	2.11	2.48	2.85	3.22	3.59	3.96
Mu(-), ton-m:	-55.85	-49.28	-43.12	-37.38	-32.09	-27.29	-22.98	-19.18	-15.83	-12.96	-10.55
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	26.94	23.02	19.59	16.74	14.19	11.93	9.95	8.24	6.75	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	8.51	8.51	8.34	7.75	7.08	6.41	5.73	5.05	4.38	4.19	4.19
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-L1 13 #3@ 30 9-L1

BEAM: L1(9-8) FLOOR: 1

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-7.63	-1.29	0.00	0.00	0.00	0.00	0.00	0.00	-2.27	-10.35	-21.35
Mu(+), ton-m:	0.33	2.50	7.67	11.74	13.70	13.31	10.63	5.72	0.94	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	9.21
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	5.38	5.14	3.59	2.04	0.49	1.07	2.62	4.11	5.49	6.87	7.09
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-L1 26 #3@ 30 8-L1

BEAM: L1(8-6') FLOOR: 1

Length:	L = 6.64 m	a = 0.25 m	Section:	b = 30.0 cm	Sec:	S30X70				
	Lu = 6.39 m	c = 0.00 m		h = 70.0 cm	Mat:	RConcrete2				
X, m:	0.25	0.89	1.53	2.17	2.80	3.44	4.08	4.72	5.36	6.00	6.64
Mu(-), ton-m:	-22.48	-16.82	-12.65	-10.11	-9.14	-9.76	-10.91	-7.32	-3.29	-0.85	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	9.73	7.19	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	4.03	4.03	2.72	1.41	0.11	1.20	2.51	3.92	2.61	1.31	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-L1 — 22 #3@ 30 — 6'-L1

BEAM: M(11-10) FLOOR: 1

Length:	L = 5.72 m	a = 0.00 m	Section:	b = 50.0 cm	Sec:	S50X70				
	Lu = 5.47 m	c = 0.25 m		h = 70.0 cm	Mat:	RConcrete2				
X, m:	0.00	0.55	1.09	1.64	2.19	2.74	3.28	3.83	4.38	4.92	5.47
Mu(-), ton-m:	0.00	-0.73	-2.66	-5.86	-10.38	-16.12	-23.16	-31.42	-40.82	-51.32	-62.92
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.49	17.74	22.63	28.20
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.73	1.46	2.19	2.92	3.65	4.38	5.05	5.68	6.21	6.21
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

11-M — 19 #3@ 30 — 10-M

BEAM: M(10-9) FLOOR: 1

Length:	L = 4.21 m	a = 0.25 m	Section:	b = 50.0 cm	Sec:	S50X70				
	Lu = 2.16 m	c = 1.80 m		h = 70.0 cm	Mat:	RConcrete2				
X, m:	0.25	0.47	0.68	0.90	1.11	1.33	1.55	1.76	1.98	2.20	2.41
Mu(-), ton-m:	-43.86	-37.97	-32.32	-27.16	-23.35	-20.07	-17.95	-15.96	-14.20	-12.65	-11.40
Mu(+), ton-m:	14.62	8.77	8.77	8.77	8.77	8.77	8.77	8.77	8.77	8.77	8.77
As(-), cm2:	19.14	16.44	13.89	11.60	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	12.48	12.48	12.48	12.47	12.33	12.19	12.09	12.02	12.02	12.02	12.02
Tu, ton-m:	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

10-M — 15 #3@ 15 — 9-M

BEAM: M(9-8) FLOOR: 1

Length:	L = 8.07 m	a = 0.00 m	Section:	b = 50.0 cm	Sec:	S50X70					
	Lu = 8.07 m	c = 0.00 m		h = 70.0 cm	Mat:	RConcrete2					
X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-27.61	-14.38	-6.03	-6.03	-6.03	-6.03	-6.03	-6.03	-6.03	-16.78	-30.14
Mu(+), ton-m:	9.20	6.03	6.03	9.15	11.69	11.72	10.89	7.69	6.03	6.03	10.05
As(-), cm2:	11.80	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.92
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	4.97	4.80	3.99	3.19	2.38	1.81	2.62	3.39	4.12	4.84	4.99
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-M — 11 #3@ 15 15 #3@ 30 11 #3@ 15 — 8-M

BEAM: M(8-6') FLOOR: 1

Length:	L = 6.64 m	a = 1.80 m	Section:	b = 50.0 cm	Sec:	S50X70				
	Lu = 4.84 m	c = 0.00 m		h = 70.0 cm	Mat:	RConcrete2				
X, m:	1.80	2.28	2.77	3.25	3.73	4.22	4.70	5.18	5.67	6.15	6.64
Mu(-), ton-m:	-79.43	-63.65	-49.03	-35.53	-23.23	-13.99	-8.08	-4.66	-2.26	-0.70	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	36.51	28.56	21.55	15.33	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	9.45	9.45	9.01	8.37	7.72	5.45	2.58	1.93	1.29	0.64	0.00
Tu, ton-m:	0.22	0.22	0.22	0.22	0.22	0.13	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-M — 16 #3@ 30 — 6'-M

BEAM: M1(11-10) FLOOR: 1

Length:	L = 5.72 m	a = 0.00 m	Section:	b = 30.0 cm	Sec:	S30X70				
	Lu = 5.47 m	c = 0.25 m		h = 70.0 cm	Mat:	RConcrete2				
X, m:	0.00	0.55	1.09	1.64	2.19	2.74	3.28	3.83	4.38	4.92	5.47
Mu(-), ton-m:	0.00	-0.67	-2.45	-5.40	-9.56	-14.85	-21.34	-28.94	-37.59	-47.24	-57.88
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	9.21	12.71	16.84	21.84	28.19
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	1.12	2.24	3.36	4.48	5.60	6.72	7.75	8.71	9.50	9.50
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

11-M1 — 19 #3@ 30 — 10-M1

BEAM: M1(10-9) FLOOR: 1

Length:	L = 4.21 m		a = 0.25 m	Section:	b = 30.0 cm		Sec:	S30X70		
	Lu = 3.71 m		c = 0.25 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.25	0.62	0.99	1.36	1.73	2.11	2.48	2.85	3.22	3.59	3.96
Mu(-), ton-m:	-55.81	-49.33	-43.26	-37.61	-32.41	-27.70	-23.48	-19.78	-16.51	-13.73	-11.42
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	26.92	23.05	19.66	16.85	14.34	12.13	10.18	8.51	7.05	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	8.38	8.38	8.22	7.62	6.96	6.28	5.60	4.93	4.25	4.06	4.06
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-M1 — 13 #3@ 30 — 9-M1

BEAM: M1(9-8) FLOOR: 1

Length:	L = 8.07 m		a = 0.25 m	Section:	b = 30.0 cm		Sec:	S30X70		
	Lu = 7.57 m		c = 0.25 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-8.36	-1.55	0.00	0.00	0.00	0.00	0.00	0.00	-1.39	-9.09	-19.86
Mu(+), ton-m:	0.24	2.17	7.31	11.61	13.80	13.64	11.19	6.51	1.09	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.54
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	5.54	5.30	3.75	2.20	0.65	0.91	2.46	3.95	5.33	6.71	6.93
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-M1 — 26 #3@ 30 — 8-M1

BEAM: M1(8-6') FLOOR: 1

Length:	L = 6.64 m		a = 0.25 m	Section:	b = 30.0 cm		Sec:	S30X70		
	Lu = 6.39 m		c = 0.00 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.25	0.89	1.53	2.17	2.80	3.44	4.08	4.72	5.36	6.00	6.64
Mu(-), ton-m:	-20.91	-15.59	-11.76	-9.56	-8.93	-9.89	-11.26	-7.32	-3.29	-0.85	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	9.02	6.65	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	3.75	3.75	2.44	1.13	0.20	1.48	2.79	3.92	2.61	1.31	0.00
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-M1 — 22 #3@ 30 — 6'-M1

BEAM: N(11-10) FLOOR: 1

Length:	L = 5.72 m		a = 0.00 m	Section:	b = 50.0 cm		Sec:	S50X70		
	Lu = 5.47 m		c = 0.25 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.00	0.55	1.09	1.64	2.19	2.74	3.28	3.83	4.38	4.92	5.47
Mu(-), ton-m:	0.00	-0.73	-2.65	-5.84	-10.35	-16.08	-23.11	-31.35	-40.73	-51.21	-62.78
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.46	17.70	22.57	28.13
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.73	1.46	2.18	2.91	3.64	4.37	5.04	5.67	6.19	6.19
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

11-N — 19 #3@ 30 — 10-N

BEAM: N(10-9) FLOOR: 1

Length:	L = 4.21 m		a = 0.25 m	Section:	b = 50.0 cm		Sec:	S50X70		
	Lu = 2.16 m		c = 1.80 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.25	0.47	0.68	0.90	1.11	1.33	1.55	1.76	1.98	2.19	2.41
Mu(-), ton-m:	-46.69	-39.62	-32.79	-26.70	-22.68	-19.19	-16.89	-14.71	-12.77	-11.03	-9.59
Mu(+), ton-m:	15.56	9.34	9.34	9.34	9.34	9.34	9.34	9.34	9.34	10.60	15.93
As(-), cm2:	20.45	17.19	14.10	11.39	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	15.08	15.08	15.08	15.08	14.93	14.79	14.70	14.63	14.62	14.62	14.62
Tu, ton-m:	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	13.50	13.50	13.50	13.51	13.77	14.04	14.23	14.37	14.37	14.37	14.37

DESIGN

10-N — 17 #3@ 12.5 — 9-N

BEAM: N(9-8) FLOOR: 1

Length:	L = 8.07 m		a = 1.80 m	Section:	b = 50.0 cm		Sec:	S50X70		
	Lu = 6.27 m		c = 0.00 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	1.80	2.43	3.05	3.68	4.31	4.93	5.56	6.19	6.81	7.44	8.07
Mu(-), ton-m:	-22.67	-13.05	-5.90	-4.92	-4.92	-4.92	-4.92	-4.92	-8.00	-15.60	-24.60
Mu(+), ton-m:	7.56	4.92	5.59	7.30	7.58	6.95	6.87	5.72	4.92	4.92	8.20
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	4.04	4.04	3.22	2.40	1.91	2.07	2.55	3.11	3.67	4.22	4.22
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-N — 11 #3@ 15 9 #3@ 30 11 #3@ 15 — 8-N

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:53 a.m. 05/08/2010

BEAM: N(8-6') FLOOR: 1

Length: L = 6.64 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 4.84 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.28	2.77	3.25	3.73	4.22	4.70	5.18	5.67	6.15	6.64
Mu(-), ton-m:	-105.07	-84.20	-64.49	-45.88	-28.49	-15.69	-8.06	-4.65	-2.25	-0.70	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	51.64	39.00	28.97	20.08	12.18	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	12.74	12.74	12.31	11.66	11.02	7.36	2.57	1.93	1.29	0.64	0.00
Tu, ton-m:	0.87	0.87	0.87	0.87	0.87	0.50	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	19.59	19.59	21.38	24.73	29.31	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-N 13 #3@ 17.5 9 #3@ 30 6'-N

BEAM: N1(11-10) FLOOR: 1

Length: L = 5.72 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 5.47 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.55	1.09	1.64	2.19	2.74	3.28	3.83	4.38	4.92	5.47
Mu(-), ton-m:	0.00	-0.61	-2.24	-4.93	-8.74	-13.57	-19.50	-26.45	-34.36	-43.18	-52.91
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	8.39	11.55	15.27	19.62	25.16
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	1.02	2.05	3.07	4.09	5.12	6.14	7.08	7.96	8.69	8.69
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

11-N1 19 #3@ 30 10-N1

BEAM: N1(10-9) FLOOR: 1

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.71 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.62	0.99	1.36	1.73	2.11	2.48	2.85	3.22	3.59	3.96
Mu(-), ton-m:	-50.99	-44.33	-38.04	-32.15	-26.66	-21.64	-17.08	-13.01	-9.34	-6.14	-3.37
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	24.02	20.20	17.06	14.22	11.64	9.35	7.31	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	8.69	8.69	8.54	8.00	7.37	6.74	6.10	5.46	4.83	4.65	4.65
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-N1 13 #3@ 30 9-N1

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:53 a.m. 05/08/2010

BEAM: N1(9-8) FLOOR: 1

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-1.83	0.00	0.00	0.00	0.00	0.00	0.00	-3.03	-11.03	-21.35	-33.53
Mu(+), ton-m:	1.26	5.21	9.12	10.86	10.67	8.34	3.90	0.45	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	9.22	14.88
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	3.55	3.33	1.91	0.50	0.93	2.34	3.76	5.13	6.43	7.73	7.93
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-N1 26 #3@ 30 8-N1

BEAM: N1(8-6') FLOOR: 1

Length: L = 6.64 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 6.39 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.89	1.53	2.17	2.80	3.44	4.08	4.72	5.36	6.00	6.64
Mu(-), ton-m:	-34.80	-27.27	-21.10	-16.42	-13.18	-11.39	-10.38	-6.69	-3.01	-0.78	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	15.49	11.93	9.10	7.01	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	5.60	5.60	4.41	3.21	2.02	0.82	0.37	3.58	2.39	1.19	0.00
Tu, ton-m:	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-N1 22 #3@ 30 6'-N1

BEAM: O(11-10) FLOOR: 1

Length: L = 5.72 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 5.47 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.55	1.09	1.64	2.19	2.74	3.28	3.83	4.38	4.92	5.47
Mu(-), ton-m:	0.00	-0.60	-2.21	-4.87	-8.62	-13.39	-19.24	-26.11	-33.92	-42.66	-52.32
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.13	14.61	18.59	23.10
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.61	1.21	1.82	2.42	3.03	3.64	4.20	4.73	5.17	5.17
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

11-O 19 #3@ 30 10-O

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:53 a.m. 05/08/2010

BEAM: O(10-9) FLOOR: 1

Length: L = 4.21 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 3.74 m c = 0.23 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.62	1.00	1.37	1.74	2.12	2.49	2.86	3.24	3.61	3.98
Mu(-), ton-m:	-40.36	-33.97	-27.98	-22.38	-17.21	-12.56	-8.66	-8.07	-8.07	-8.07	-8.07
Mu(+), ton-m:	13.45	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
As(-), cm2:	17.53	14.63	11.96	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.61	7.61	7.55	7.34	7.08	6.80	6.53	6.26	5.99	5.91	5.91
Tu, ton-m:	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	30.00	30.00	30.00	15.00	15.00	15.00	15.00

DESIGN

10-O 25 #3@ 15 9-O

BEAM: O(9-8) FLOOR: 1

Length: L = 8.07 m a = 0.23 m Section: b = 50.0 cm Sec: S50X70
Lu = 7.62 m c = 0.23 m h = 70.0 cm Mat: RConcrete2

X, m:	0.23	0.99	1.75	2.51	3.27	4.04	4.80	5.56	6.32	7.08	7.85
Mu(-), ton-m:	-9.69	-9.69	-9.69	-9.69	-9.69	-9.69	-9.69	-11.99	-22.20	-34.35	-48.44
Mu(+), ton-m:	9.69	9.69	9.69	9.69	9.69	9.69	9.69	9.69	9.69	9.69	16.15
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.80	21.27
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	3.28	3.18	2.57	2.62	3.23	3.84	4.44	5.03	5.58	6.14	6.23
Tu, ton-m:	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-O 11 #3@ 15 14 #3@ 30 11 #3@ 15 8-O

BEAM: O(8-6') FLOOR: 1

Length: L = 6.64 m a = 0.23 m Section: b = 50.0 cm Sec: S50X70
Lu = 6.41 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.23	0.87	1.51	2.15	2.79	3.43	4.07	4.71	5.35	5.99	6.63
Mu(-), ton-m:	-76.24	-61.67	-48.46	-36.73	-26.43	-17.57	-10.52	-6.64	-2.99	-0.77	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	34.86	27.59	21.28	15.88	11.28	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.78	6.78	6.07	5.36	4.65	3.94	3.23	2.13	1.42	0.71	0.00
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-O 22 #3@ 30 6'-O

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:53 a.m. 05/08/2010

BEAM: O1(11-10) FLOOR: 1

Length: L = 5.72 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 5.47 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.55	1.09	1.64	2.19	2.74	3.28	3.83	4.38	4.92	5.47
Mu(-), ton-m:	0.00	-0.54	-1.96	-4.32	-7.66	-11.90	-17.10	-23.19	-30.12	-37.86	-46.40
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	7.31	10.05	13.26	16.98	21.36
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.90	1.79	2.69	3.59	4.49	5.38	6.21	6.98	7.62	7.62
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

11-O1 19 #3@ 30 10-O1

BEAM: O1(10-9) FLOOR: 1

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.71 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.62	0.99	1.36	1.73	2.11	2.48	2.85	3.22	3.59	3.96
Mu(-), ton-m:	-45.45	-40.30	-35.49	-31.02	-26.92	-23.24	-19.97	-17.15	-14.70	-12.66	-11.03
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	20.82	18.18	15.82	13.68	11.76	10.07	8.60	7.34	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.64	6.64	6.51	6.03	5.46	4.89	4.31	3.73	3.16	3.00	3.00
Tu, ton-m:	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-O1 13 #3@ 30 9-O1

BEAM: O1(9-8) FLOOR: 1

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-7.97	-2.39	0.00	0.00	0.00	0.00	-0.07	-2.75	-8.91	-17.02	-26.82
Mu(+), ton-m:	0.00	0.50	2.58	5.15	6.03	5.02	2.24	0.25	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.28	11.72
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	3.82	3.63	2.39	1.15	0.17	1.34	2.58	3.80	4.98	6.15	6.33
Tu, ton-m:	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

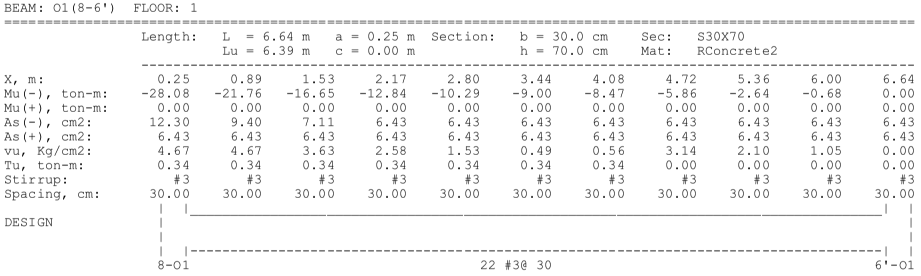
9-O1 26 #3@ 30 8-O1

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:53 a.m. 05/08/2010

BEAM: O1(8-6') FLOOR: 1

Length: L = 6.64 m Lu = 6.39 m a = 0.25 m c = 0.00 m Section: b = 30.0 cm h = 70.0 cm Sec: S30X70 Mat: RConcrete2

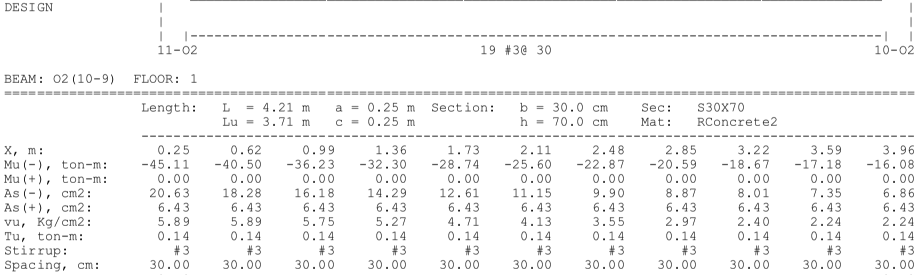
X, m:	0.25	0.89	1.53	2.17	2.80	3.44	4.08	4.72	5.36	6.00	6.64
Mu(-), ton-m:	-28.08	-21.76	-16.65	-12.84	-10.29	-9.00	-8.47	-5.86	-2.64	-0.68	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.30	9.40	7.11	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	4.67	4.67	3.63	2.58	1.53	0.49	0.56	3.14	2.10	1.05	0.00
Tu, ton-m:	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00



BEAM: O2(11-10) FLOOR: 1

Length: L = 5.72 m Lu = 5.47 m a = 0.00 m c = 0.25 m Section: b = 30.0 cm h = 70.0 cm Sec: S30X70 Mat: RConcrete2

X, m:	0.00	0.55	1.09	1.64	2.19	2.74	3.28	3.83	4.38	4.92	5.47
Mu(-), ton-m:	0.00	-0.54	-1.97	-4.33	-7.67	-11.91	-17.12	-23.22	-30.17	-37.92	-46.47
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	7.32	10.07	13.28	17.00	21.40
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.90	1.80	2.70	3.59	4.49	5.39	6.22	6.99	7.63	7.63
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00



BEAM: O2(10-9) FLOOR: 1

Length: L = 4.21 m Lu = 3.71 m a = 0.25 m c = 0.25 m Section: b = 30.0 cm h = 70.0 cm Sec: S30X70 Mat: RConcrete2

X, m:	0.25	0.62	0.99	1.36	1.73	2.11	2.48	2.85	3.22	3.59	3.96
Mu(-), ton-m:	-45.11	-40.50	-36.23	-32.30	-28.74	-25.60	-22.87	-20.59	-18.67	-17.18	-16.08
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	20.63	18.28	16.18	14.29	12.61	11.15	9.90	8.87	8.01	7.35	6.86
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	5.89	5.89	5.75	5.27	4.71	4.13	3.55	2.97	2.40	2.24	2.24
Tu, ton-m:	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:53 a.m. 05/08/2010

BEAM: O2(9-8) FLOOR: 1

Length: L = 8.07 m Lu = 7.57 m a = 0.25 m c = 0.25 m Section: b = 30.0 cm h = 70.0 cm Sec: S30X70 Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-13.39	-5.54	-0.27	0.00	0.00	0.00	0.00	0.00	-0.72	-6.24	-14.25
Mu(+), ton-m:	0.00	0.05	1.05	5.16	7.84	8.62	7.57	4.71	0.80	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	5.07	4.87	3.63	2.39	1.14	0.13	1.34	2.56	3.74	4.92	5.10
Tu, ton-m:	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

BEAM: O2(8-6') FLOOR: 1

Length: L = 6.64 m Lu = 6.39 m a = 0.25 m c = 0.00 m Section: b = 30.0 cm h = 70.0 cm Sec: S30X70 Mat: RConcrete2

X, m:	0.25	0.89	1.53	2.17	2.80	3.44	4.08	4.72	5.36	6.00	6.64
Mu(-), ton-m:	-14.97	-10.82	-7.88	-6.24	-5.86	-6.75	-8.12	-5.87	-2.64	-0.69	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	2.90	2.90	1.86	0.81	0.25	1.29	2.34	3.15	2.10	1.05	0.00
Tu, ton-m:	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

BEAM: E'(10-9') FLOOR: 2

Length: L = 1.41 m Lu = 1.29 m a = 0.00 m c = 0.13 m Section: b = 30.0 cm h = 70.0 cm Sec: S30X70 Mat: RConcrete2

X, m:	0.00	0.13	0.26	0.39	0.51	0.64	0.77	0.90	1.03	1.16	1.29
Mu(-), ton-m:	0.00	-0.01	-0.04	-0.09	-0.16	-0.25	-0.35	-0.48	-0.62	-0.78	-0.96
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.08	0.16	0.23	0.31	0.39	0.39	0.39	0.39	0.39	0.39
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

BEAM: E'(9'-9) FLOOR: 2

Length: L = 2.80 m a = 0.13 m Section: b = 30.0 cm Sec: S30X70
Lu = 2.43 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.13	0.37	0.61	0.85	1.10	1.34	1.58	1.82	2.07	2.31	2.55
Mu(-), ton-m:	-1.05	-0.78	-0.57	-0.44	-0.39	-0.41	-0.48	-0.61	-0.80	-1.05	-1.35
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.31	0.31	0.31	0.26	0.13	0.09	0.22	0.34	0.39	0.39	0.39
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9'-E' 8 #3@ 30 9-E'

BEAM: E'(9-8') FLOOR: 2

Length: L = 5.27 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 4.82 m c = 0.20 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.73	1.21	1.70	2.18	2.66	3.14	3.62	4.11	4.59	5.07
Mu(-), ton-m:	-1.23	-0.38	0.00	0.00	0.00	0.00	0.00	-0.47	-1.49	-2.81	-4.38
Mu(+), ton-m:	0.00	0.22	0.70	1.02	1.08	0.87	0.47	0.06	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.79	0.79	0.59	0.30	0.10	0.40	0.69	0.98	1.27	1.47	1.47
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-E' 16 #3@ 30 8'-E'

BEAM: E'(8'-8) FLOOR: 2

Length: L = 2.80 m a = 0.20 m Section: b = 30.0 cm Sec: S30X70
Lu = 2.35 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.20	0.44	0.67	0.90	1.14	1.38	1.61	1.85	2.08	2.32	2.55
Mu(-), ton-m:	-5.09	-5.24	-5.43	-5.68	-5.98	-6.35	-6.78	-7.31	-7.91	-8.56	-9.27
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.73	0.73	0.73	0.77	0.89	1.01	1.14	1.26	1.30	1.30	1.30
Tu, ton-m:	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8'-E' 8 #3@ 30 8-E'

BEAM: E'(8-7) FLOOR: 2

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-9.18	-7.45	-5.90	-4.52	-3.33	-2.32	-1.50	-0.85	-0.39	-0.10	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	2.02	2.02	1.92	1.68	1.44	1.20	0.96	0.72	0.48	0.24	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-E' 14 #3@ 30 7-E'

BEAM: F(10-9') FLOOR: 2

Length: L = 1.41 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 1.01 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.10	0.20	0.30	0.40	0.50	0.61	0.71	0.81	0.91	1.01
Mu(-), ton-m:	0.00	-0.02	-0.07	-0.14	-0.24	-0.37	-0.53	-0.71	-0.93	-1.18	-1.46
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.09	0.18	0.27	0.36	0.45	0.54	0.33	0.33	0.33	0.33
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-F 4 #3@ 30 9'-F

BEAM: F(9'-9) FLOOR: 2

Length: L = 2.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.40 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.20	1.44	1.68	1.92	2.16	2.40
Mu(-), ton-m:	-30.33	-24.10	-17.91	-11.77	-6.07	-6.07	-6.07	-11.82	-17.94	-24.10	-30.32
Mu(+), ton-m:	29.61	23.83	18.00	12.13	6.21	6.07	6.38	12.34	18.23	24.08	29.88
As(-), cm2:	13.00	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.00
As(+), cm2:	12.68	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.80
vu, Kg/cm2:	8.86	8.86	8.86	8.84	8.80	8.76	8.72	8.74	8.76	8.76	8.76
Tu, ton-m:	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F 16 #3@ 15 9-F

BEAM: F(9-8') FLOOR: 2

Length: L = 5.27 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 4.87 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.49	0.97	1.46	1.95	2.44	2.92	3.41	3.90	4.38	4.87
Mu(-), ton-m:	-45.60	-34.65	-24.37	-14.74	-11.77	-11.77	-11.77	-20.17	-32.41	-45.30	-58.85
Mu(+), ton-m:	46.93	39.33	31.07	22.15	12.56	11.77	11.77	17.13	23.45	29.10	34.10
As(-), cm2:	19.95	14.94	10.71	10.71	10.71	10.71	10.71	10.71	13.93	19.81	26.22
As(+), cm2:	20.57	17.06	13.33	10.71	10.71	10.71	10.71	10.71	10.71	12.46	14.69
vu, Kg/cm2:	8.14	8.14	7.94	7.64	7.74	8.04	8.34	8.64	8.94	9.14	9.14
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-F 11 #3@ 15 5 #3@ 30 11 #3@ 15 8'-F

BEAM: F(8'-8) FLOOR: 2

Length: L = 2.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.40 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.20	1.44	1.68	1.92	2.16	2.40
Mu(-), ton-m:	-25.63	-20.50	-15.41	-10.36	-5.74	-5.74	-5.74	-11.07	-16.89	-22.76	-28.68
Mu(+), ton-m:	28.30	22.81	17.28	11.70	6.08	5.74	5.74	9.35	14.15	18.90	23.60
As(-), cm2:	10.92	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.27
As(+), cm2:	12.10	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	8.49	8.49	8.49	8.50	8.55	8.59	8.63	8.67	8.68	8.68	8.68
Tu, ton-m:	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F 16 #3@ 15 8-F

BEAM: F(8-7) FLOOR: 2

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 4.21 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.42	0.84	1.26	1.68	2.11	2.53	2.95	3.37	3.79	4.21
Mu(-), ton-m:	-25.06	-20.30	-16.04	-12.28	-9.02	-6.27	-4.01	-2.26	-1.00	-0.25	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	3.15	3.15	2.98	2.60	2.23	1.86	1.49	1.12	0.74	0.37	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-F 14 #3@ 30 7-F

BEAM: F1(10-9') FLOOR: 2

Length: L = 1.41 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 1.16 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.12	0.23	0.35	0.46	0.58	0.70	0.81	0.93	1.04	1.16
Mu(-), ton-m:	0.00	-0.02	-0.07	-0.14	-0.24	-0.37	-0.54	-0.73	-0.96	-1.21	-1.49
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	0.00	0.16	0.32	0.48	0.64	0.80	0.72	0.72	0.72	0.72	0.72
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-F1 5 #3@ 30 9'-F1

BEAM: F1(9'-9) FLOOR: 2

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.77	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-10.86	-8.60	-6.36	-4.15	-2.20	-2.20	-2.20	-4.27	-6.49	-8.74	-11.01
Mu(+), ton-m:	10.52	8.49	6.43	4.35	2.23	2.20	2.31	4.41	6.48	8.53	10.55
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	5.99	5.99	5.99	5.97	5.92	5.88	5.90	5.95	5.97	5.97	5.97
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F1 17 #3@ 15 9-F1

BEAM: F1(9-8') FLOOR: 2

Length: L = 5.27 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 5.02 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.50	1.00	1.51	2.01	2.51	3.01	3.51	4.02	4.52	5.02
Mu(-), ton-m:	-24.41	-18.01	-12.15	-6.85	-6.36	-6.36	-6.36	-9.87	-16.64	-23.96	-31.80
Mu(+), ton-m:	22.03	19.13	15.68	11.67	7.11	6.36	6.36	8.83	11.37	13.35	14.82
As(-), cm2:	10.73	7.78	5.36	5.36	5.36	5.36	5.36	5.36	7.16	10.51	14.27
As(+), cm2:	9.62	8.29	6.73	5.36	5.36	5.36	5.36	5.36	5.36	5.70	6.35
vu, Kg/cm2:	8.74	8.74	8.38	7.89	7.50	7.99	8.49	8.98	9.47	9.83	9.83
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-F1 11 #3@ 15 5 #3@ 30 11 #3@ 15 8'-F1

BEAM: F1(8'-8) FLOOR: 2

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.76	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-8.63	-6.87	-5.14	-3.43	-2.42	-2.42	-2.42	-4.68	-7.12	-9.60	-12.10
Mu(+), ton-m:	11.70	9.44	7.16	4.84	2.50	2.42	2.42	3.13	4.70	6.25	7.76
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	7.02	7.02	7.02	7.05	7.09	7.14	7.18	7.23	7.25	7.25	7.25
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F1 17 #3@ 15 8-F1

BEAM: F1(8-7) FLOOR: 2

Length: L = 4.21 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 4.21 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.42	0.84	1.26	1.68	2.11	2.53	2.95	3.37	3.79	4.21
Mu(-), ton-m:	-19.52	-15.81	-12.49	-9.56	-7.03	-4.88	-3.12	-1.76	-0.78	-0.20	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	8.46	6.79	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	4.91	4.91	4.64	4.06	3.48	2.90	2.32	1.74	1.16	0.58	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-F1 14 #3@ 30 7-F1

BEAM: F2(10-9') FLOOR: 2

Length: L = 1.41 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 1.16 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.12	0.23	0.35	0.46	0.58	0.70	0.81	0.93	1.04	1.16
Mu(-), ton-m:	0.00	-0.02	-0.07	-0.15	-0.26	-0.40	-0.57	-0.78	-1.02	-1.28	-1.58
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	0.00	0.17	0.34	0.51	0.68	0.85	0.76	0.76	0.76	0.76	0.76
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-F2 5 #3@ 30 9'-F2

BEAM: F2(9'-9) FLOOR: 2

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.77	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-9.30	-7.34	-5.42	-3.52	-1.92	-1.92	-1.92	-3.73	-5.66	-7.62	-9.60
Mu(+), ton-m:	9.02	7.28	5.51	3.72	1.92	1.92	2.02	3.81	5.57	7.31	9.02
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	5.18	5.18	5.18	5.16	5.11	5.08	5.12	5.17	5.19	5.19	5.19
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F2 17 #3@ 15 9-F2

BEAM: F2(9-8') FLOOR: 2

Length: L = 5.27 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 5.02 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.50	1.00	1.51	2.01	2.51	3.01	3.51	4.02	4.52	5.02
Mu(-), ton-m:	-24.63	-18.08	-12.12	-6.75	-6.28	-6.28	-6.28	-9.52	-16.24	-23.55	-31.40
Mu(+), ton-m:	21.07	18.46	15.27	11.48	7.11	6.28	6.28	8.86	11.30	13.15	14.45
As(-), cm2:	10.83	7.81	5.36	5.36	5.36	5.36	5.36	5.36	6.98	10.32	14.07
As(+), cm2:	9.18	7.98	6.55	5.36	5.36	5.36	5.36	5.36	5.36	5.61	6.18
vu, Kg/cm2:	8.73	8.73	8.35	7.82	7.33	7.74	8.27	8.79	9.32	9.70	9.70
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-F2 11 #3@ 15 5 #3@ 30 11 #3@ 15 8'-F2

BEAM: F2(8'-8) FLOOR: 2

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.76	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-7.29	-5.81	-4.35	-2.91	-2.11	-2.11	-2.11	-4.05	-6.18	-8.35	-10.54
Mu(+), ton-m:	10.17	8.22	6.24	4.24	2.21	2.11	2.11	2.55	3.84	5.11	6.36
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	6.15	6.15	6.15	6.17	6.22	6.27	6.31	6.36	6.38	6.38	6.38
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F2 17 #3@ 15 8-F2

BEAM: F2(8-7) FLOOR: 2

Length: L = 4.21 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 4.21 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.42	0.84	1.26	1.68	2.11	2.53	2.95	3.37	3.79	4.21
Mu(-), ton-m:	-20.73	-16.79	-13.27	-10.16	-7.46	-5.18	-3.32	-1.87	-0.83	-0.21	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	9.02	7.23	5.66	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	5.22	5.22	4.92	4.31	3.69	3.08	2.46	1.85	1.23	0.62	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-F2 14 #3@ 30 7-F2

BEAM: F3(10-9') FLOOR: 2

Length: L = 1.41 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 1.16 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.12	0.23	0.35	0.46	0.58	0.70	0.81	0.93	1.04	1.16
Mu(-), ton-m:	0.00	-0.02	-0.07	-0.15	-0.26	-0.41	-0.58	-0.79	-1.04	-1.31	-1.62
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	0.00	0.17	0.35	0.52	0.69	0.86	0.78	0.78	0.78	0.78	0.78
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-F3 5 #3@ 30 9'-F3

BEAM: F3(9'-9) FLOOR: 2

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.77	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-10.08	-7.97	-5.89	-3.83	-2.12	-2.12	-2.12	-4.10	-6.24	-8.40	-10.58
Mu(+), ton-m:	10.07	8.13	6.16	4.16	2.13	2.12	2.18	4.13	6.05	7.95	9.82
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	5.69	5.69	5.69	5.67	5.63	5.67	5.72	5.76	5.79	5.79	5.79
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F3 17 #3@ 15 9-F3

BEAM: F3(9-8') FLOOR: 2

Length: L = 5.27 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 5.02 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.50	1.00	1.51	2.01	2.51	3.01	3.51	4.02	4.52	5.02
Mu(-), ton-m:	-22.89	-16.66	-11.03	-5.99	-5.85	-5.85	-5.85	-8.63	-14.93	-21.82	-29.27
Mu(+), ton-m:	18.69	16.58	13.87	10.57	6.67	5.85	5.85	8.18	10.22	11.67	12.56
As(-), cm2:	10.02	7.17	5.36	5.36	5.36	5.36	5.36	5.36	6.40	9.52	13.04
As(+), cm2:	8.08	7.13	5.93	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	8.19	8.19	7.80	7.26	6.73	7.07	7.61	8.14	8.68	9.07	9.07
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-F3 11 #3@ 15 5 #3@ 30 11 #3@ 15 8'-F3

BEAM: F3(8'-8) FLOOR: 2

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.76	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-7.14	-5.68	-4.25	-2.85	-2.35	-2.35	-2.35	-4.53	-6.91	-9.32	-11.75
Mu(+), ton-m:	11.37	9.18	6.96	4.71	2.44	2.35	2.35	2.51	3.78	5.03	6.25
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	7.05	7.05	7.05	7.07	7.12	7.17	7.21	7.26	7.28	7.28	7.28
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F3 17 #3@ 15 8-F3

BEAM: F3(8-7) FLOOR: 2

Length: L = 4.21 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 4.21 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.42	0.84	1.26	1.68	2.11	2.53	2.95	3.37	3.79	4.21
Mu(-), ton-m:	-21.14	-17.12	-13.53	-10.36	-7.61	-5.28	-3.38	-1.90	-0.85	-0.21	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	9.20	7.38	5.78	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	5.32	5.32	5.02	4.39	3.77	3.14	2.51	1.88	1.26	0.63	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-F3 14 #3@ 30 7-F3

BEAM: G(10-9') FLOOR: 2

Length: L = 1.41 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 1.01 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.10	0.20	0.30	0.40	0.50	0.61	0.71	0.81	0.91	1.01
Mu(-), ton-m:	0.00	-0.03	-0.08	-0.17	-0.29	-0.46	-0.65	-0.87	-1.15	-1.45	-1.80
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.11	0.22	0.33	0.44	0.55	0.66	0.40	0.40	0.40	0.40
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-G 4 #3@ 30 9'-G

BEAM: G(9'-9) FLOOR: 2

Length: L = 2.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.40 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.20	1.44	1.68	1.92	2.16	2.40
Mu(-), ton-m:	-24.46	-19.40	-14.39	-9.42	-5.24	-5.24	-5.24	-10.18	-15.48	-20.82	-26.21
Mu(+), ton-m:	25.48	20.52	15.52	10.47	5.38	5.24	5.24	10.00	14.72	19.39	24.02
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.18
As(+), cm2:	10.86	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.50	7.50	7.50	7.52	7.56	7.60	7.64	7.68	7.69	7.69	7.69
Tu, ton-m:	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-G 16 #3@ 15 9-G

BEAM: G(9-8') FLOOR: 2

Length: L = 5.27 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 4.87 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.49	0.97	1.46	1.95	2.44	2.92	3.41	3.90	4.38	4.87
Mu(-), ton-m:	-40.82	-30.39	-20.78	-11.99	-10.52	-10.52	-10.52	-16.86	-27.97	-39.89	-52.61
Mu(+), ton-m:	37.97	32.59	26.39	19.38	11.54	10.52	10.52	15.01	19.71	23.60	26.69
As(-), cm2:	17.74	13.03	10.71	10.71	10.71	10.71	10.71	10.71	11.95	17.32	23.24
As(+), cm2:	16.44	14.01	11.26	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.39
vu, Kg/cm2:	7.42	7.42	7.17	6.80	6.51	6.86	7.22	7.59	7.96	8.21	8.21
Tu, ton-m:	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-G 11 #3@ 15 5 #3@ 30 11 #3@ 15 8'-G

BEAM: G(8'-8) FLOOR: 2

Length: L = 2.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.40 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.20	1.44	1.68	1.92	2.16	2.40
Mu(-), ton-m:	-19.53	-15.61	-11.74	-7.92	-5.04	-5.04	-5.04	-9.71	-14.82	-19.97	-25.18
Mu(+), ton-m:	24.65	19.88	15.07	10.20	5.30	5.04	5.04	6.93	10.51	14.04	17.52
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.72
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.70	7.70	7.70	7.72	7.76	7.80	7.84	7.88	7.89	7.89	7.89
Tu, ton-m:	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-G 16 #3@ 15 8-G

BEAM: G(8-7) FLOOR: 2

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 4.21 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.42	0.84	1.26	1.68	2.11	2.53	2.95	3.37	3.79	4.21
Mu(-), ton-m:	-30.93	-25.06	-19.80	-15.16	-11.14	-7.73	-4.95	-2.78	-1.24	-0.31	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.27	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	3.89	3.89	3.67	3.21	2.76	2.30	1.84	1.38	0.92	0.46	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-G 14 #3@ 30 7-G

BEAM: G'(10-9) FLOOR: 2

Length: L = 4.21 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.32	-1.23	-2.73	-4.82	-7.47	-10.62	-14.32	-18.52	-23.25	-28.51
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.95	10.08	12.51
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.78	1.57	2.35	3.09	3.79	4.49	5.19	5.88	6.15	6.15
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-G' 14 #3@ 30 9-G'

BEAM: G'(9-8) FLOOR: 2

Length:	L = 8.07 m	a = 0.25 m	Section:	b = 30.0 cm	Sec:	S30X70				
	Lu = 7.57 m	c = 0.25 m		h = 70.0 cm	Mat:	RConcrete2				
X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-27.19	-17.80	-10.37	-5.22	-2.11	-1.27	-2.69	-6.26	-11.86	-19.38	-28.82
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	11.89	7.62	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.33	12.65
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.02	5.79	4.29	2.80	1.30	0.22	1.72	3.16	4.49	5.82	6.03
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-G' 26 #3@ 30 8-G'

BEAM: G'(8-7) FLOOR: 2

Length:	L = 4.21 m	a = 0.25 m	Section:	b = 30.0 cm	Sec:	S30X70				
	Lu = 3.96 m	c = 0.00 m		h = 70.0 cm	Mat:	RConcrete2				
X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-29.88	-24.26	-19.20	-14.73	-10.86	-7.57	-4.87	-2.77	-1.26	-0.33	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.14	10.54	8.25	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.56	6.56	6.26	5.48	4.70	3.91	3.13	2.35	1.57	0.78	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-G' 14 #3@ 30 7-G'

BEAM: H(10-9) FLOOR: 2

Length:	L = 4.21 m	a = 0.00 m	Section:	b = 50.0 cm	Sec:	S50X70				
	Lu = 2.41 m	c = 1.80 m		h = 70.0 cm	Mat:	RConcrete2				
X, m:	0.00	0.24	0.48	0.72	0.96	1.21	1.45	1.69	1.93	2.17	2.41
Mu(-), ton-m:	0.00	-0.21	-0.52	-1.15	-1.99	-3.03	-4.39	-5.85	-7.69	-9.69	-12.08
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.31	0.62	0.93	1.24	1.55	1.85	2.13	2.23	2.23	2.23
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-H 8 #3@ 30 9-H

BEAM: H(9-8) FLOOR: 2

Length:	L = 8.07 m	a = 0.00 m	Section:	b = 50.0 cm	Sec:	S50X70				
	Lu = 8.07 m	c = 0.00 m		h = 70.0 cm	Mat:	RConcrete2				
X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-40.72	-25.13	-11.95	-8.92	-8.92	-8.92	-8.92	-8.92	-14.94	-28.57	-44.61
Mu(+), ton-m:	13.57	8.96	13.62	15.39	14.66	12.37	13.53	13.31	10.60	8.92	14.87
As(-), cm2:	17.70	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.22	19.49
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.79	5.58	4.67	3.90	3.12	2.66	3.44	4.18	4.88	5.75	5.94
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-H 11 #3@ 15 15 #3@ 30 11 #3@ 15 8-H

BEAM: H(8-7) FLOOR: 2

Length:	L = 4.21 m	a = 1.80 m	Section:	b = 50.0 cm	Sec:	S50X70				
	Lu = 2.41 m	c = 0.00 m		h = 70.0 cm	Mat:	RConcrete2				
X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.31	-9.80	-7.75	-5.86	-4.40	-3.05	-2.01	-1.18	-0.55	-0.22	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.27	2.27	2.27	2.17	1.86	1.55	1.24	0.93	0.62	0.31	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-H 8 #3@ 30 7-H

BEAM: H1(10-9) FLOOR: 2

Length:	L = 4.21 m	a = 0.00 m	Section:	b = 30.0 cm	Sec:	S30X70				
	Lu = 3.96 m	c = 0.25 m		h = 70.0 cm	Mat:	RConcrete2				
X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.31	-1.21	-2.70	-4.76	-7.38	-10.50	-14.14	-18.30	-22.98	-28.17
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.85	9.95	12.35
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.77	1.55	2.32	3.06	3.75	4.43	5.12	5.81	6.08	6.08
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-H1 14 #3@ 30 9-H1

BEAM: H1(9-8) FLOOR: 2

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-26.79	-17.50	-10.16	-5.07	-1.99	-1.16	-2.56	-6.09	-11.62	-19.06	-28.39
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	11.70	7.49	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.19	12.45
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	5.95	5.72	4.24	2.76	1.29	0.22	1.70	3.12	4.44	5.76	5.96
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-H1 — 26 #3@ 30 — 8-H1

BEAM: H1(8-7) FLOOR: 2

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-29.52	-23.96	-18.97	-14.55	-10.72	-7.48	-4.82	-2.74	-1.24	-0.33	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.97	10.40	8.15	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.48	6.48	6.19	5.41	4.64	3.87	3.09	2.32	1.55	0.77	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-H1 — 14 #3@ 30 — 7-H1

BEAM: I(11'-10) FLOOR: 2

Length: L = 2.20 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 1.97 m c = 0.23 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.20	0.39	0.59	0.79	0.99	1.18	1.38	1.58	1.78	1.97
Mu(-), ton-m:	0.00	-0.06	-0.20	-0.43	-0.76	-1.17	-1.67	-2.26	-2.94	-3.71	-4.57
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.14	0.29	0.43	0.58	0.72	0.87	0.98	0.98	0.98	0.98
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

11'-I — 7 #3@ 30 — 10-I

BEAM: I(10-9) FLOOR: 2

Length: L = 4.21 m a = 0.23 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.19 m c = 1.80 m h = 70.0 cm Mat: RConcrete2

X, m:	0.23	0.44	0.66	0.88	1.10	1.32	1.54	1.76	1.97	2.19	2.41
Mu(-), ton-m:	-24.06	-16.62	-9.49	-5.70	-5.70	-7.66	-11.44	-15.33	-19.48	-23.83	-28.48
Mu(+), ton-m:	8.23	5.70	5.70	5.70	5.78	11.04	17.46	23.77	29.82	35.67	41.21
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.18
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.78	15.40	17.92
vu, Kg/cm2:	12.25	12.25	12.25	12.24	12.08	11.91	11.80	11.73	11.73	11.73	11.73
Tu, ton-m:	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

10-I — 15 #3@ 15 — 9-I

BEAM: I(9-8) FLOOR: 2

Length: L = 8.07 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 8.07 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-39.87	-24.10	-10.84	-8.64	-8.64	-8.64	-8.64	-8.64	-13.70	-27.21	-43.21
Mu(+), ton-m:	13.29	8.64	12.06	14.55	14.45	12.84	13.92	13.26	10.02	8.64	14.40
As(-), cm2:	17.31	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.62	18.84
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.85	5.63	4.72	3.91	3.10	2.57	3.37	4.14	4.87	5.72	5.92
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-I — 11 #3@ 15 15 #3@ 30 11 #3@ 15 — 8-I

BEAM: I(8-7) FLOOR: 2

Length: L = 4.21 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.45	-9.92	-7.84	-5.93	-4.45	-3.09	-2.04	-1.19	-0.55	-0.22	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.30	2.30	2.30	2.19	1.88	1.57	1.25	0.94	0.63	0.31	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-I — 8 #3@ 30 — 7-I

Company: INTERDICO LTDA **Engineer: RODRIGO CASTRO S**
Project: HOSPITAL ZIPAQUIRA **09:32:53 a.m. 05/08/2010**

BEAM: I1(11'-10) FLOOR: 2

Length: L = 2.20 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 1.95 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.19	0.39	0.58	0.78	0.97	1.17	1.36	1.56	1.75	1.95
Mu(-), ton-m:	0.00	-0.08	-0.28	-0.61	-1.06	-1.63	-2.33	-3.15	-4.10	-5.18	-6.41
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.34	0.68	1.02	1.37	1.71	2.05	2.29	2.29	2.29	2.29
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

11'-I1 — 7 #3@ 30 — 10-I1

BEAM: I1(10-9) FLOOR: 2

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.71 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.62	0.99	1.36	1.73	2.11	2.48	2.85	3.22	3.59	3.96
Mu(-), ton-m:	-6.61	-4.96	-3.72	-2.91	-2.54	-2.67	-3.28	-4.41	-5.97	-8.03	-10.55
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	1.60	1.60	1.43	0.84	0.18	0.51	1.19	1.87	2.54	2.73	2.73
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-I1 — 13 #3@ 30 — 9-I1

BEAM: I1(9-8) FLOOR: 2

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-10.07	-2.85	0.00	0.00	0.00	0.00	0.00	-1.17	-8.14	-17.68	-29.20
Mu(+), ton-m:	0.00	0.80	4.00	7.55	8.99	8.08	4.90	0.58	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.57	12.83
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	5.04	4.80	3.25	1.70	0.23	1.43	2.98	4.47	5.85	7.23	7.45
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-I1 — 26 #3@ 30 — 8-I1

Company: INTERDICO LTDA **Engineer: RODRIGO CASTRO S**
Project: HOSPITAL ZIPAQUIRA **09:32:54 a.m. 05/08/2010**

BEAM: I1(8-7) FLOOR: 2

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-30.07	-24.41	-19.32	-14.83	-10.92	-7.62	-4.91	-2.79	-1.26	-0.33	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.23	10.61	8.30	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.60	6.60	6.30	5.51	4.73	3.94	3.15	2.36	1.58	0.79	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-I1 — 14 #3@ 30 — 7-I1

BEAM: J(10-9) FLOOR: 2

Length: L = 4.21 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.16 m c = 1.80 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.47	0.68	0.90	1.11	1.33	1.55	1.76	1.98	2.20	2.41
Mu(-), ton-m:	-11.81	-8.29	-8.29	-8.29	-8.29	-12.14	-17.62	-23.23	-29.06	-35.11	-41.44
Mu(+), ton-m:	12.71	8.29	8.29	8.29	8.29	8.29	8.29	10.44	12.91	15.18	17.17
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.44	15.14	18.02
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	9.74	9.74	9.74	9.74	9.88	10.02	10.12	10.18	10.19	10.19	10.19
Tu, ton-m:	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

10-J — 15 #3@ 15 — 9-J

BEAM: J(9-8) FLOOR: 2

Length: L = 8.07 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 8.07 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-40.07	-24.44	-11.27	-8.05	-8.05	-8.05	-8.05	-8.05	-12.16	-24.98	-40.24
Mu(+), ton-m:	13.36	8.05	10.65	13.49	13.79	12.51	13.76	13.31	10.34	8.05	13.41
As(-), cm2:	17.40	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	17.48
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.80	5.59	4.63	3.84	3.05	2.38	3.14	3.89	4.60	5.44	5.64
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-J — 11 #3@ 15 15 #3@ 30 11 #3@ 15 — 8-J

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:54 a.m. 05/08/2010

BEAM: J(8-6') FLOOR: 2

Length: L = 6.64 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 4.84 m c = 0.00 m h = 70.0 cm Mat: ASTM A50

X, m:	1.80	2.28	2.77	3.25	3.73	4.22	4.70	5.18	5.67	6.15	6.64
Mu(-), ton-m:	-13.21	-8.45	-4.83	-2.30	-0.95	-0.26	-0.08	-0.04	-0.02	-0.01	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.34	2.34	1.92	1.28	0.65	0.08	0.02	0.02	0.01	0.01	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-J 16 #3@ 30 6'-J

BEAM: J1(11'-10) FLOOR: 2

Length: L = 2.20 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 1.95 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.19	0.39	0.58	0.78	0.97	1.17	1.36	1.56	1.75	1.95
Mu(-), ton-m:	0.00	-0.08	-0.28	-0.61	-1.06	-1.63	-2.33	-3.15	-4.10	-5.18	-6.41
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.34	0.68	1.02	1.37	1.71	2.05	2.29	2.29	2.29	2.29
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

11'-J1 7 #3@ 30 10-J1

BEAM: J1(10-9) FLOOR: 2

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.71 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.62	0.99	1.36	1.73	2.11	2.48	2.85	3.22	3.59	3.96
Mu(-), ton-m:	-6.73	-5.03	-3.75	-2.90	-2.48	-2.57	-3.14	-4.22	-5.75	-7.76	-10.24
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	1.65	1.65	1.49	0.90	0.23	0.45	1.13	1.80	2.48	2.67	2.67
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-J1 13 #3@ 30 9-J1

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:54 a.m. 05/08/2010

BEAM: J1(9-8) FLOOR: 2

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-9.78	-2.70	0.00	0.00	0.00	0.00	0.00	-1.63	-8.77	-18.42	-30.05
Mu(+), ton-m:	0.00	0.82	4.06	7.49	8.81	7.79	4.50	0.53	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.90	13.23
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	4.96	4.72	3.17	1.62	0.19	1.51	3.06	4.55	5.93	7.31	7.53
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-J1 26 #3@ 30 8-J1

BEAM: J1(8-7) FLOOR: 2

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-30.96	-25.13	-19.89	-15.26	-11.25	-7.84	-5.05	-2.87	-1.30	-0.34	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.65	10.94	8.56	6.50	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.80	6.80	6.49	5.68	4.87	4.05	3.24	2.43	1.62	0.81	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-J1 14 #3@ 30 7-J1

BEAM: K(10-9) FLOOR: 2

Length: L = 4.21 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.16 m c = 1.80 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.47	0.68	0.90	1.11	1.33	1.55	1.76	1.98	2.20	2.41
Mu(-), ton-m:	-11.47	-7.80	-7.80	-7.80	-7.80	-10.79	-16.04	-21.43	-27.06	-32.89	-39.01
Mu(+), ton-m:	12.90	8.52	7.80	7.80	7.80	7.80	8.20	10.92	13.40	15.67	17.65
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.55	14.15	16.91
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	9.24	9.24	9.24	9.25	9.39	9.53	9.63	9.70	9.70	9.70	9.70
Tu, ton-m:	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

10-K 15 #3@ 15 9-K

BEAM: K(9-8) FLOOR: 2

Length: L = 8.07 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 8.07 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-40.31	-24.46	-11.13	-8.06	-8.06	-8.06	-8.06	-8.06	-11.28	-24.01	-39.22
Mu(+), ton-m:	13.44	8.06	9.77	13.05	13.73	12.71	13.92	13.34	10.17	8.06	13.07
As(-), cm2:	17.51	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	17.01
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.88	5.66	4.71	3.90	3.09	2.36	3.11	3.88	4.61	5.42	5.62
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-K 11 #3@ 15 15 #3@ 30 11 #3@ 15 8-K

BEAM: K(8-6') FLOOR: 2

Length: L = 6.64 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 4.84 m c = 0.00 m h = 70.0 cm Mat: ASTM A50

X, m:	1.80	2.28	2.77	3.25	3.73	4.22	4.70	5.18	5.67	6.15	6.64
Mu(-), ton-m:	-13.49	-8.62	-4.93	-2.34	-0.96	-0.26	-0.08	-0.04	-0.02	-0.01	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.39	2.39	1.96	1.31	0.67	0.08	0.02	0.02	0.01	0.01	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-K 16 #3@ 30 6'-K

BEAM: K1(11'-10) FLOOR: 2

Length: L = 2.20 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 1.95 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.19	0.39	0.58	0.78	0.97	1.17	1.36	1.56	1.75	1.95
Mu(-), ton-m:	0.00	-0.08	-0.28	-0.61	-1.06	-1.63	-2.33	-3.15	-4.10	-5.18	-6.41
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.34	0.68	1.02	1.37	1.71	2.05	2.29	2.29	2.29	2.29
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

11'-K1 7 #3@ 30 10-K1

BEAM: K1(10-9) FLOOR: 2

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.71 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.62	0.99	1.36	1.73	2.11	2.48	2.85	3.22	3.59	3.96
Mu(-), ton-m:	-6.73	-5.07	-3.83	-3.01	-2.63	-2.74	-3.34	-4.47	-6.02	-8.07	-10.58
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	1.61	1.61	1.44	0.85	0.18	0.49	1.17	1.85	2.53	2.71	2.71
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-K1 13 #3@ 30 9-K1

BEAM: K1(9-8) FLOOR: 2

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-10.12	-2.94	0.00	0.00	0.00	0.00	0.00	-1.69	-8.80	-18.42	-30.01
Mu(+), ton-m:	0.00	0.75	3.77	7.25	8.61	7.63	4.37	0.52	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.90	13.21
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	4.98	4.74	3.19	1.64	0.21	1.48	3.03	4.52	5.90	7.28	7.50
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-K1 26 #3@ 30 8-K1

BEAM: K1(8-7) FLOOR: 2

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-30.96	-25.13	-19.89	-15.26	-11.25	-7.84	-5.05	-2.87	-1.30	-0.34	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.65	10.94	8.56	6.50	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.80	6.80	6.49	5.68	4.87	4.05	3.24	2.43	1.62	0.81	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

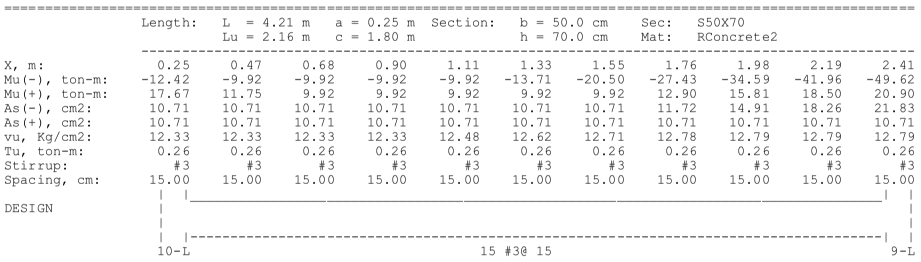
DESIGN

8-K1 14 #3@ 30 7-K1

BEAM: L(10-9) FLOOR: 2

Length: L = 4.21 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.16 m c = 1.80 m h = 70.0 cm Mat: RConcrete2

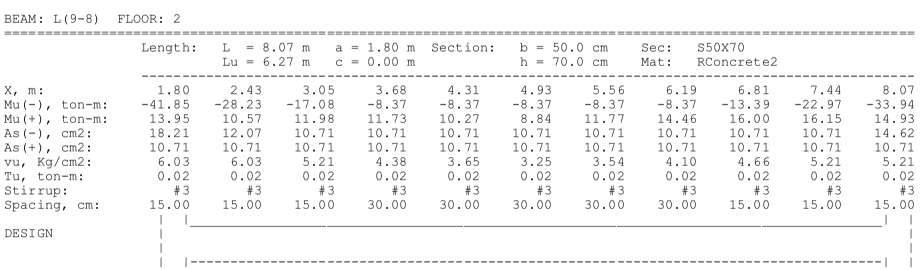
X, m:	0.25	0.47	0.68	0.90	1.11	1.33	1.55	1.76	1.98	2.19	2.41
Mu(-), ton-m:	-12.42	-9.92	-9.92	-9.92	-9.92	-13.71	-20.50	-27.43	-34.59	-41.96	-49.62
Mu(+), ton-m:	17.67	11.75	9.92	9.92	9.92	9.92	9.92	12.90	15.81	18.50	20.90
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.72	14.91	18.26	21.83
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	12.33	12.33	12.33	12.33	12.48	12.62	12.71	12.78	12.79	12.79	12.79
Tu, ton-m:	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00



BEAM: L(9-8) FLOOR: 2

Length: L = 8.07 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 6.27 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

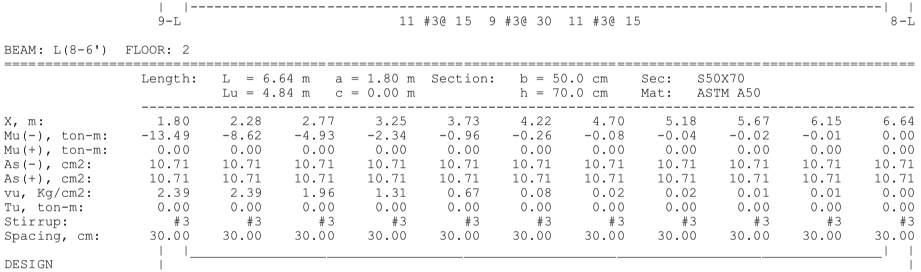
X, m:	1.80	2.43	3.05	3.68	4.31	4.93	5.56	6.19	6.81	7.44	8.07
Mu(-), ton-m:	-41.85	-28.23	-17.08	-8.37	-8.37	-8.37	-8.37	-8.37	-13.39	-22.97	-33.94
Mu(+), ton-m:	13.95	10.57	11.98	11.73	10.27	8.84	11.77	14.46	16.00	16.15	14.93
As(-), cm2:	18.21	12.07	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.62
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.03	6.03	5.21	4.38	3.65	3.25	3.54	4.10	4.66	5.21	5.21
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00



BEAM: L(8-6') FLOOR: 2

Length: L = 6.64 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 4.84 m c = 0.00 m h = 70.0 cm Mat: ASTM A50

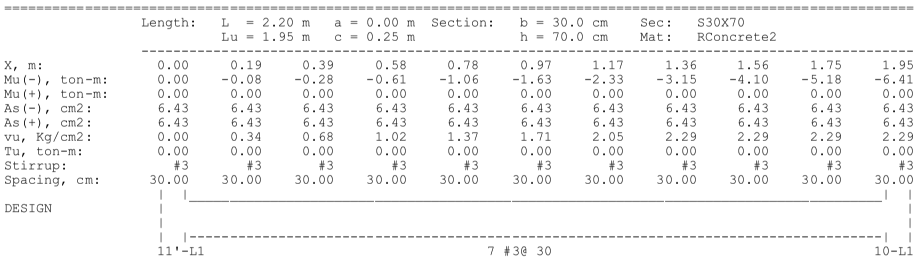
X, m:	1.80	2.28	2.77	3.25	3.73	4.22	4.70	5.18	5.67	6.15	6.64
Mu(-), ton-m:	-13.49	-8.62	-4.93	-2.34	-0.96	-0.26	-0.08	-0.04	-0.02	-0.01	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.39	2.39	1.96	1.31	0.67	0.08	0.02	0.02	0.01	0.01	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00



BEAM: L1(11'-10) FLOOR: 2

Length: L = 2.20 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 1.95 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

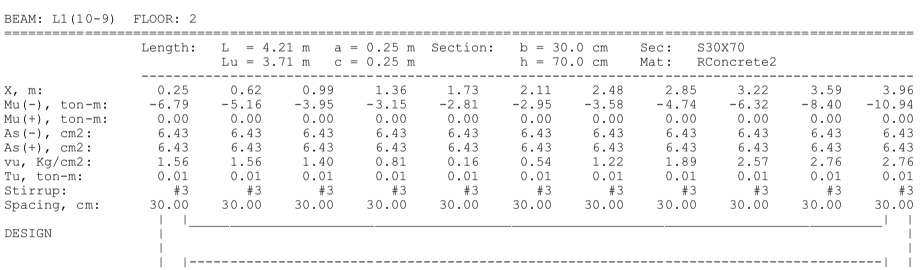
X, m:	0.00	0.19	0.39	0.58	0.78	0.97	1.17	1.36	1.56	1.75	1.95
Mu(-), ton-m:	0.00	-0.08	-0.28	-0.61	-1.06	-1.63	-2.33	-3.15	-4.10	-5.18	-6.41
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.34	0.68	1.02	1.37	1.71	2.05	2.29	2.29	2.29	2.29
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00



BEAM: L1(10-9) FLOOR: 2

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.71 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

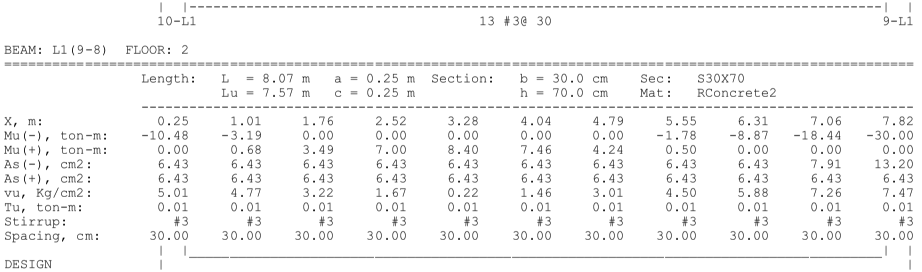
X, m:	0.25	0.62	0.99	1.36	1.73	2.11	2.48	2.85	3.22	3.59	3.96
Mu(-), ton-m:	-6.79	-5.16	-3.95	-3.15	-2.81	-2.95	-3.58	-4.74	-6.32	-8.40	-10.94
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	1.56	1.56	1.40	0.81	0.16	0.54	1.22	1.89	2.57	2.76	2.76
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00



BEAM: L1(9-8) FLOOR: 2

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-10.48	-3.19	0.00	0.00	0.00	0.00	0.00	-1.78	-8.87	-18.44	-30.00
Mu(+), ton-m:	0.00	0.68	3.49	7.00	8.40	7.46	4.24	0.50	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.91	13.20
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	5.01	4.77	3.22	1.67	0.22	1.46	3.01	4.50	5.88	7.26	7.47
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00



Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:54 a.m. 05/08/2010

BEAM: L1(8-7) FLOOR: 2

	Length:	L = 4.21 m	a = 0.25 m	Section:	b = 30.0 cm	Sec:	S30X70			
		Lu = 3.96 m	c = 0.00 m		h = 70.0 cm	Mat:	RConcrete2			
X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-30.96	-25.13	-19.89	-15.26	-11.25	-7.84	-5.05	-2.87	-1.30	-0.34	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.65	10.94	8.56	6.50	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.80	6.80	6.49	5.68	4.87	4.05	3.24	2.43	1.62	0.81	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-L1 — 14 #3@ 30 — 7-L1

BEAM: M(10-9) FLOOR: 2

	Length:	L = 4.21 m	a = 0.25 m	Section:	b = 50.0 cm	Sec:	S50X70			
		Lu = 2.16 m	c = 1.80 m		h = 70.0 cm	Mat:	RConcrete2			
X, m:	0.25	0.47	0.68	0.90	1.11	1.33	1.55	1.76	1.98	2.20	2.41
Mu(-), ton-m:	-9.78	-9.78	-9.78	-9.78	-9.78	-13.83	-20.45	-27.21	-34.19	-41.39	-48.88
Mu(+), ton-m:	16.69	10.94	9.78	9.78	9.78	9.78	9.78	9.78	9.78	9.78	16.29
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.62	14.73	18.00	21.48
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	13.25	13.25	13.25	13.26	13.40	13.54	13.64	13.71	13.71	13.71	13.71
Tu, ton-m:	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

10-M — 15 #3@ 15 — 9-M

BEAM: M(9-8) FLOOR: 2

	Length:	L = 8.07 m	a = 0.00 m	Section:	b = 50.0 cm	Sec:	S50X70			
		Lu = 8.07 m	c = 0.00 m		h = 70.0 cm	Mat:	RConcrete2			
X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-41.39	-25.36	-11.84	-8.28	-8.28	-8.28	-8.28	-8.28	-10.89	-23.44	-38.48
Mu(+), ton-m:	13.80	8.28	9.12	12.57	13.43	12.57	13.95	13.56	10.58	8.28	12.83
As(-), cm2:	18.00	10.80	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	16.67
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.95	5.73	4.80	3.99	3.18	2.38	3.10	3.87	4.59	5.35	5.55
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-M — 11 #3@ 15 15 #3@ 30 11 #3@ 15 — 8-M

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:54 a.m. 05/08/2010

BEAM: M(8-6') FLOOR: 2

	Length:	L = 6.64 m	a = 1.80 m	Section:	b = 50.0 cm	Sec:	S50X70			
		Lu = 4.84 m	c = 0.00 m		h = 70.0 cm	Mat:	ASTM A50			
X, m:	1.80	2.28	2.77	3.25	3.73	4.22	4.70	5.18	5.67	6.15	6.64
Mu(-), ton-m:	-13.49	-8.62	-4.93	-2.34	-0.96	-0.26	-0.08	-0.04	-0.02	-0.01	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.39	2.39	1.96	1.31	0.67	0.08	0.02	0.02	0.01	0.01	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-M — 16 #3@ 30 — 6'-M

BEAM: M1(11'-10) FLOOR: 2

	Length:	L = 2.20 m	a = 0.00 m	Section:	b = 30.0 cm	Sec:	S30X70			
		Lu = 1.95 m	c = 0.25 m		h = 70.0 cm	Mat:	RConcrete2			
X, m:	0.00	0.19	0.39	0.58	0.78	0.97	1.17	1.36	1.56	1.75	1.95
Mu(-), ton-m:	0.00	-0.08	-0.28	-0.61	-1.06	-1.63	-2.33	-3.15	-4.10	-5.18	-6.41
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.34	0.68	1.02	1.37	1.71	2.05	2.29	2.29	2.29	2.29
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

11'-M1 — 7 #3@ 30 — 10-M1

BEAM: M1(10-9) FLOOR: 2

	Length:	L = 4.21 m	a = 0.25 m	Section:	b = 30.0 cm	Sec:	S30X70			
		Lu = 3.71 m	c = 0.25 m		h = 70.0 cm	Mat:	RConcrete2			
X, m:	0.25	0.62	0.99	1.36	1.73	2.11	2.48	2.85	3.22	3.59	3.96
Mu(-), ton-m:	-6.73	-5.16	-4.01	-3.28	-2.99	-3.20	-3.89	-5.10	-6.75	-8.89	-11.49
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	1.48	1.48	1.32	0.72	0.10	0.63	1.30	1.98	2.66	2.84	2.84
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-M1 — 13 #3@ 30 — 9-M1

BEAM: M1(9-8) FLOOR: 2

Length:	L = 8.07 m		a = 0.25 m	Section:	b = 30.0 cm		Sec:	S30X70		
	Lu = 7.57 m		c = 0.25 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-11.00	-3.55	0.00	0.00	0.00	0.00	0.00	-1.90	-8.96	-18.49	-29.99
Mu(+), ton-m:	0.00	0.57	3.07	6.64	8.09	7.20	4.03	0.47	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.93	13.20
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	5.04	4.80	3.25	1.70	0.24	1.42	2.97	4.46	5.84	7.22	7.44
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-M1 — 26 #3@ 30 — 8-M1

BEAM: M1(8-7) FLOOR: 2

Length:	L = 4.21 m		a = 0.25 m	Section:	b = 30.0 cm		Sec:	S30X70		
	Lu = 3.96 m		c = 0.00 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-30.96	-25.13	-19.89	-15.26	-11.25	-7.84	-5.05	-2.87	-1.30	-0.34	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.65	10.94	8.56	6.50	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.80	6.80	6.49	5.68	4.87	4.05	3.24	2.43	1.62	0.81	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-M1 — 14 #3@ 30 — 7-M1

BEAM: N(10-9) FLOOR: 2

Length:	L = 4.21 m		a = 0.25 m	Section:	b = 50.0 cm		Sec:	S50X70		
	Lu = 2.16 m		c = 1.80 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.25	0.47	0.68	0.90	1.11	1.33	1.55	1.76	1.98	2.19	2.41
Mu(-), ton-m:	-9.56	-9.56	-9.56	-9.56	-9.56	-13.20	-19.89	-26.65	-33.56	-40.59	-47.80
Mu(+), ton-m:	18.60	12.46	9.56	9.56	9.56	9.56	9.56	11.14	13.43	15.59	17.58
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.37	14.45	17.64	20.97
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	12.69	12.69	12.69	12.69	12.78	12.87	12.93	12.97	12.97	12.97	12.97
Tu, ton-m:	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

10-N — 15 #3@ 15 — 9-N

BEAM: N(9-8) FLOOR: 2

Length:	L = 8.07 m		a = 1.80 m	Section:	b = 50.0 cm		Sec:	S50X70			
	Lu = 6.27 m		c = 0.00 m		h = 70.0 cm		Mat:	RConcrete2			
X, m:	1.80	2.43	3.05	3.68	4.31	4.93	5.56	6.19	6.81	7.44	8.07
Mu(-), ton-m:	-35.78	-25.45	-16.59	-8.73	-7.16	-7.16	-7.16	-7.16	-13.63	-21.23	-29.68
Mu(+), ton-m:	13.02	13.52	12.54	10.57	8.03	7.16	9.48	13.17	16.24	18.47	19.85
As(-), cm2:	15.45	10.84	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	4.70	4.70	4.21	3.72	3.45	3.20	3.25	3.59	3.94	4.27	4.27
Tu, ton-m:	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-N — 11 #3@ 15 9 #3@ 30 11 #3@ 15 — 8-N

BEAM: N(8-6') FLOOR: 2

Length:	L = 6.64 m		a = 1.80 m	Section:	b = 50.0 cm		Sec:	S50X70			
	Lu = 4.84 m		c = 0.00 m		h = 70.0 cm		Mat:	ASTM A50			
X, m:	1.80	2.28	2.77	3.25	3.73	4.22	4.70	5.18	5.67	6.15	6.64
Mu(-), ton-m:	-8.22	-5.29	-3.05	-1.49	-0.64	-0.20	-0.08	-0.04	-0.02	-0.01	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	1.44	1.44	1.18	0.80	0.41	0.06	0.02	0.02	0.01	0.01	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-N — 16 #3@ 30 — 6'-N

BEAM: C(10-9) FLOOR: 3

Length:	L = 4.21 m		a = 0.00 m	Section:	b = 50.0 cm		Sec:	S50X70			
	Lu = 2.41 m		c = 1.80 m		h = 70.0 cm		Mat:	RConcrete2			
X, m:	0.00	0.24	0.48	0.72	0.96	1.21	1.45	1.69	1.93	2.17	2.41
Mu(-), ton-m:	0.00	-0.31	-0.77	-1.68	-2.91	-4.44	-6.43	-8.56	-11.27	-14.18	-17.68
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.45	0.91	1.36	1.82	2.27	2.71	3.12	3.26	3.26	3.26
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-C — 8 #3@ 30 — 9-C

BEAM: C(9-8) FLOOR: 3

Length: L = 8.07 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 6.27 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.43	3.05	3.68	4.31	4.93	5.56	6.19	6.81	7.44	8.07
Mu(-), ton-m:	-76.98	-48.85	-29.68	-17.42	-17.42	-17.42	-17.42	-23.60	-42.79	-64.04	-87.12
Mu(+), ton-m:	36.62	41.99	38.41	30.81	20.53	17.42	17.42	22.04	25.59	27.08	29.04
As(-), cm2:	37.19	23.40	12.72	10.71	10.71	10.71	10.71	10.71	18.65	28.75	40.54
As(+), cm2:	17.77	20.22	16.64	13.22	10.71	10.71	10.71	10.71	10.91	11.56	12.43
vu, Kg/cm2:	13.17	13.17	8.49	7.66	6.99	7.70	8.52	9.34	10.17	11.17	11.17
Tu, ton-m:	2.98	2.98	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	12.32	12.32	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-C 13 #3@ 12.5 9 #3@ 30 11 #3@ 15 8-C

BEAM: C(8-7) FLOOR: 3

Length: L = 4.21 m a = 0.90 m Section: b = 50.0 cm Sec: S50X70
Lu = 3.31 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.90	1.23	1.56	1.89	2.22	2.55	2.88	3.22	3.55	3.88	4.21
Mu(-), ton-m:	-33.29	-26.90	-21.36	-16.43	-12.09	-8.33	-5.41	-3.17	-1.53	-0.47	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	14.33	11.48	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.04	5.04	4.99	4.37	3.75	3.12	2.50	1.87	1.25	0.62	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-C 11 #3@ 30 7-C

BEAM: C1(10-9) FLOOR: 3

Length: L = 4.21 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.33	-1.27	-2.83	-4.99	-7.74	-11.01	-14.83	-19.19	-24.09	-29.54
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.24	10.46	12.98
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.81	1.62	2.43	3.20	3.93	4.65	5.37	6.09	6.37	6.37
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-C1 14 #3@ 30 9-C1

BEAM: C1(9-8) FLOOR: 3

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-28.45	-21.11	-15.15	-10.79	-7.86	-6.54	-6.83	-8.80	-13.21	-20.21	-29.82
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.47	9.11	6.45	6.43	6.43	6.43	6.43	6.43	6.43	8.70	13.12
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	4.74	4.57	3.52	2.48	1.43	0.38	0.73	2.06	3.88	5.70	5.98
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-C1 26 #3@ 30 8-C1

BEAM: C1(8-7) FLOOR: 3

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-30.96	-25.13	-19.89	-15.26	-11.25	-7.84	-5.05	-2.87	-1.30	-0.34	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.65	10.94	8.56	6.50	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.80	6.80	6.49	5.68	4.87	4.05	3.24	2.43	1.62	0.81	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-C1 14 #3@ 30 7-C1

BEAM: D(10-9) FLOOR: 3

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 3.31 m c = 0.90 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.33	0.66	0.99	1.33	1.66	1.99	2.32	2.65	2.98	3.31
Mu(-), ton-m:	0.00	-0.30	-1.03	-2.20	-3.80	-5.89	-8.48	-11.42	-14.77	-18.54	-22.79
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.44	0.88	1.33	1.77	2.18	2.57	2.97	3.37	3.40	3.40
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-D 11 #3@ 30 9-D

BEAM: D(9-8) FLOOR: 3

Length: L = 8.07 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 8.06 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.81	1.62	2.42	3.23	4.04	4.84	5.65	6.45	7.26	8.07
Mu(-), ton-m:	-53.04	-34.82	-19.49	-12.74	-12.74	-12.74	-12.74	-13.82	-28.14	-44.92	-63.70
Mu(+), ton-m:	17.68	21.61	22.84	21.16	16.13	12.74	12.74	14.41	14.20	12.74	21.23
As(-), cm2:	23.44	15.01	10.71	10.71	10.71	10.71	10.71	10.71	12.03	19.63	28.58
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.74	6.51	5.49	4.65	3.64	4.02	4.67	5.32	6.03	6.90	7.07
Tu, ton-m:	0.36	0.36	0.36	0.36	0.17	0.17	0.17	0.17	0.17	0.17	0.17
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-D 11 #3@ 15 15 #3@ 30 11 #3@ 15 8-D

BEAM: D(8-7) FLOOR: 3

Length: L = 4.21 m a = 0.90 m Section: b = 50.0 cm Sec: S50X70
Lu = 3.31 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.90	1.23	1.56	1.89	2.22	2.55	2.88	3.22	3.55	3.88	4.21
Mu(-), ton-m:	-23.57	-19.05	-15.13	-11.63	-8.56	-5.90	-3.83	-2.25	-1.08	-0.33	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	3.57	3.57	3.54	3.09	2.65	2.21	1.77	1.33	0.88	0.44	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-D 11 #3@ 30 7-D

BEAM: D1(10-9) FLOOR: 3

Length: L = 4.21 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.33	-1.27	-2.83	-4.99	-7.74	-11.01	-14.83	-19.19	-24.09	-29.54
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.24	10.46	12.98
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.81	1.62	2.43	3.20	3.93	4.65	5.37	6.09	6.37	6.37
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-D1 14 #3@ 30 9-D1

BEAM: D1(9-8) FLOOR: 3

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-28.33	-19.30	-12.09	-7.00	-3.80	-2.73	-3.77	-6.88	-12.29	-20.00	-30.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.42	8.30	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.61	13.20
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	5.80	5.59	4.20	2.81	1.42	0.14	1.41	2.88	4.48	6.08	6.33
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-D1 26 #3@ 30 8-D1

BEAM: D1(8-7) FLOOR: 3

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-30.96	-25.13	-19.89	-15.26	-11.25	-7.84	-5.05	-2.87	-1.30	-0.34	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.65	10.94	8.56	6.50	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.80	6.80	6.49	5.68	4.87	4.05	3.24	2.43	1.62	0.81	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-D1 14 #3@ 30 7-D1

BEAM: E(10-9) FLOOR: 3

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 3.31 m c = 0.90 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.33	0.66	0.99	1.33	1.66	1.99	2.32	2.65	2.98	3.31
Mu(-), ton-m:	0.00	-0.30	-1.03	-2.20	-3.80	-5.89	-8.48	-11.42	-14.77	-18.54	-22.79
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.44	0.88	1.33	1.77	2.18	2.57	2.97	3.37	3.40	3.40
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

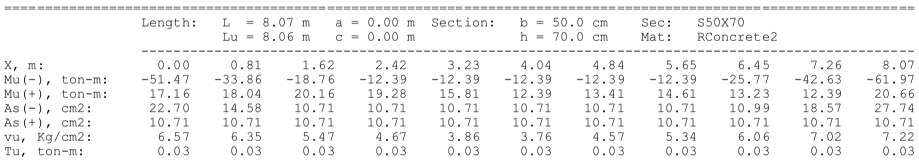
DESIGN

10-E 11 #3@ 30 9-E

BEAM: E(9-8) FLOOR: 3

Length: L = 8.07 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 8.06 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

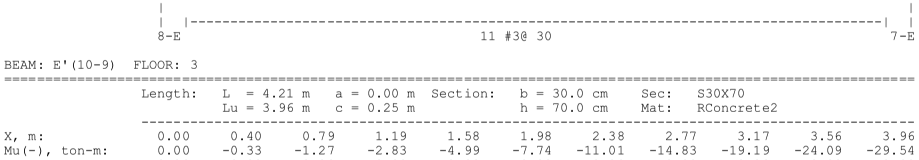
X, m:	0.00	0.81	1.62	2.42	3.23	4.04	4.84	5.65	6.45	7.26	8.07
Mu(-), ton-m:	-51.47	-33.86	-18.76	-12.39	-12.39	-12.39	-12.39	-12.39	-25.77	-42.63	-61.97
Mu(+), ton-m:	17.16	18.04	20.16	19.28	15.81	12.39	13.41	14.61	13.23	12.39	20.66
As(-), cm2:	22.70	14.58	10.71	10.71	10.71	10.71	10.71	10.71	10.99	18.57	27.74
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.57	6.35	5.47	4.67	3.86	3.76	4.57	5.34	6.06	7.02	7.22
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00



BEAM: E(8-7) FLOOR: 3

Length: L = 4.21 m a = 0.90 m Section: b = 50.0 cm Sec: S50X70
Lu = 3.31 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.90	1.23	1.56	1.89	2.22	2.55	2.88	3.22	3.55	3.88	4.21
Mu(-), ton-m:	-23.57	-19.05	-15.13	-11.63	-8.56	-5.90	-3.83	-2.25	-1.08	-0.33	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	3.57	3.57	3.54	3.09	2.65	2.21	1.77	1.33	0.88	0.44	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00



BEAM: E'(10-9) FLOOR: 3

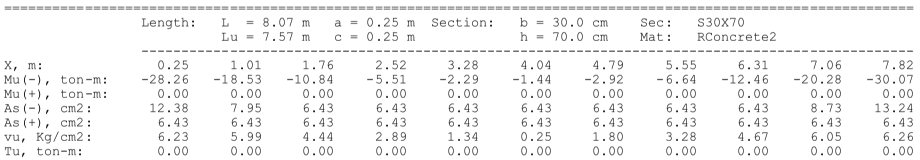
Length: L = 4.21 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.33	-1.27	-2.83	-4.99	-7.74	-11.01	-14.83	-19.19	-24.09	-29.54
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.24	10.46	12.98
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.81	1.62	2.43	3.20	3.93	4.65	5.37	6.09	6.37	6.37
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

BEAM: E'(9-8) FLOOR: 3

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

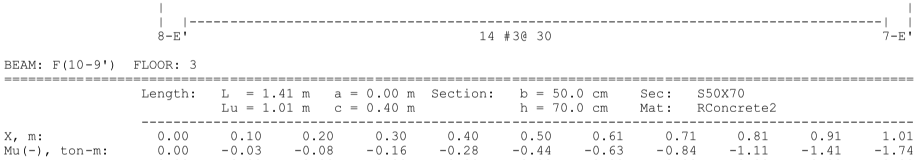
X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-28.26	-18.53	-10.84	-5.51	-2.29	-1.44	-2.92	-6.64	-12.46	-20.28	-30.07
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.38	7.95	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.73	13.24
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.23	5.99	4.44	2.89	1.34	0.25	1.80	3.28	4.67	6.05	6.26
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00



BEAM: E'(8-7) FLOOR: 3

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-30.96	-25.13	-19.89	-15.26	-11.25	-7.84	-5.05	-2.87	-1.30	-0.34	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.65	10.94	8.56	6.50	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.80	6.80	6.49	5.68	4.87	4.05	3.24	2.43	1.62	0.81	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00



BEAM: F(10-9') FLOOR: 3

Length: L = 1.41 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 1.01 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.10	0.20	0.30	0.40	0.50	0.61	0.71	0.81	0.91	1.01
Mu(-), ton-m:	0.00	-0.03	-0.08	-0.16	-0.28	-0.44	-0.63	-0.84	-1.11	-1.41	-1.74
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.11	0.21	0.32	0.43	0.53	0.64	0.39	0.39	0.39	0.39
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:54 a.m. 05/08/2010

BEAM: F(9'-9) FLOOR: 3

Length: L = 2.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.40 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.20	1.44	1.68	1.92	2.16	2.40
Mu(-), ton-m:	-36.85	-29.26	-21.71	-14.21	-7.37	-7.37	-7.37	-12.07	-18.35	-24.66	-31.03
Mu(+), ton-m:	30.42	24.49	18.51	12.49	7.37	7.37	8.01	15.32	22.57	29.78	36.93
As(-), cm2:	15.93	12.53	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.32
As(+), cm2:	13.04	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.76	15.97
vu, Kg/cm2:	11.41	11.41	11.41	11.39	11.35	11.31	11.27	11.23	11.22	11.22	11.22
Tu, ton-m:	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F 16 #3@ 15 9-F

BEAM: F(9-8') FLOOR: 3

Length: L = 5.27 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 4.87 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.49	0.97	1.46	1.95	2.44	2.92	3.41	3.90	4.38	4.87
Mu(-), ton-m:	-51.45	-39.02	-27.38	-16.53	-13.90	-13.90	-13.90	-23.77	-38.23	-53.48	-69.50
Mu(+), ton-m:	55.29	46.36	36.65	26.15	14.85	13.90	13.90	18.97	25.86	31.97	37.30
As(-), cm2:	22.69	16.92	11.69	10.71	10.71	10.71	10.71	10.71	16.56	23.65	31.46
As(+), cm2:	24.51	20.30	15.84	11.15	10.71	10.71	10.71	10.71	11.03	13.73	16.13
vu, Kg/cm2:	9.50	9.50	9.25	8.91	9.26	9.61	9.97	10.32	10.68	10.92	10.92
Tu, ton-m:	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-F 11 #3@ 15 5 #3@ 30 11 #3@ 15 8'-F

BEAM: F(8'-8) FLOOR: 3

Length: L = 2.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.40 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.20	1.44	1.68	1.92	2.16	2.40
Mu(-), ton-m:	-33.09	-26.45	-19.86	-13.31	-6.80	-6.62	-6.62	-12.63	-19.34	-26.10	-32.90
Mu(+), ton-m:	32.95	26.57	20.16	13.69	7.18	6.62	6.62	12.43	18.73	24.98	31.19
As(-), cm2:	14.24	11.28	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.13	14.15
As(+), cm2:	14.17	11.34	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.39
vu, Kg/cm2:	9.58	9.58	9.58	9.57	9.53	9.57	9.61	9.65	9.66	9.66	9.66
Tu, ton-m:	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F 16 #3@ 15 8-F

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:54 a.m. 05/08/2010

BEAM: F(8-7) FLOOR: 3

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 4.21 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.42	0.84	1.26	1.68	2.11	2.53	2.95	3.37	3.79	4.21
Mu(-), ton-m:	-29.92	-24.24	-19.15	-14.66	-10.77	-7.48	-4.79	-2.69	-1.20	-0.30	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.82	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	3.77	3.77	3.55	3.11	2.67	2.22	1.78	1.33	0.89	0.44	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-F 14 #3@ 30 7-F

BEAM: F1(10-9') FLOOR: 3

Length: L = 1.41 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 1.16 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.12	0.23	0.35	0.46	0.58	0.70	0.81	0.93	1.04	1.16
Mu(-), ton-m:	0.00	-0.02	-0.07	-0.14	-0.24	-0.37	-0.54	-0.73	-0.96	-1.21	-1.49
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	0.00	0.16	0.32	0.48	0.64	0.80	0.72	0.72	0.72	0.72	0.72
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-F1 5 #3@ 30 9'-F1

BEAM: F1(9'-9) FLOOR: 3

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.77	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-14.32	-11.35	-8.40	-5.49	-2.86	-2.86	-2.86	-4.99	-7.58	-10.20	-12.85
Mu(+), ton-m:	12.42	10.01	7.58	5.12	2.86	2.86	3.11	5.92	8.70	11.46	14.19
As(-), cm2:	6.13	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.48
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	6.07
vu, Kg/cm2:	8.20	8.20	8.20	8.18	8.13	8.09	8.04	8.00	7.97	7.97	7.97
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F1 17 #3@ 15 9-F1

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:54 a.m. 05/08/2010

BEAM: F1(9-8') FLOOR: 3

Length: L = 5.27 m Lu = 5.02 m a = 0.00 m c = 0.25 m Section: b = 25.0 cm h = 70.0 cm Sec: S25X70 Mat: RConcrete2

X, m:	0.00	0.50	1.00	1.51	2.01	2.51	3.01	3.51	4.02	4.52	5.02
Mu(-), ton-m:	-27.65	-20.61	-14.13	-8.20	-7.29	-7.29	-7.29	-11.75	-19.45	-27.69	-36.45
Mu(+), ton-m:	26.63	22.80	18.42	13.49	8.01	7.29	7.29	10.01	13.18	15.79	17.89
As(-), cm2:	12.26	8.96	6.04	5.36	5.36	5.36	5.36	5.36	8.43	12.28	16.73
As(+), cm2:	11.77	9.97	7.96	5.76	5.36	5.36	5.36	5.36	5.62	6.78	7.73
vu, Kg/cm2:	9.88	9.88	9.52	9.03	8.92	9.41	9.90	10.40	10.89	11.25	11.25
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-F1 — 11 #3@ 15 5 #3@ 30 11 #3@ 15 — 8'-F1

BEAM: F1(8'-8) FLOOR: 3

Length: L = 2.80 m Lu = 2.55 m a = 0.00 m c = 0.25 m Section: b = 25.0 cm h = 70.0 cm Sec: S25X70 Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.76	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-12.14	-9.67	-7.23	-4.81	-2.96	-2.96	-2.96	-5.70	-8.70	-11.72	-14.78
Mu(+), ton-m:	14.54	11.72	8.89	6.02	3.13	2.96	2.96	4.58	6.87	9.12	11.35
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	6.33
As(+), cm2:	6.22	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	8.38	8.38	8.38	8.40	8.45	8.49	8.54	8.59	8.61	8.61	8.61
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F1 — 17 #3@ 15 — 8-F1

BEAM: F1(8-7) FLOOR: 3

Length: L = 4.21 m Lu = 4.21 m a = 0.00 m c = 0.00 m Section: b = 25.0 cm h = 70.0 cm Sec: S25X70 Mat: RConcrete2

X, m:	0.00	0.42	0.84	1.26	1.68	2.11	2.53	2.95	3.37	3.79	4.21
Mu(-), ton-m:	-19.52	-15.81	-12.49	-9.56	-7.03	-4.88	-3.12	-1.76	-0.78	-0.20	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	8.46	6.79	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	4.91	4.91	4.64	4.06	3.48	2.90	2.32	1.74	1.16	0.58	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-F1 — 14 #3@ 30 — 7-F1

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:54 a.m. 05/08/2010

BEAM: F2(10-9') FLOOR: 3

Length: L = 1.41 m Lu = 1.16 m a = 0.00 m c = 0.25 m Section: b = 25.0 cm h = 70.0 cm Sec: S25X70 Mat: RConcrete2

X, m:	0.00	0.12	0.23	0.35	0.46	0.58	0.70	0.81	0.93	1.04	1.16
Mu(-), ton-m:	0.00	-0.02	-0.07	-0.15	-0.26	-0.40	-0.57	-0.78	-1.02	-1.28	-1.58
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	0.00	0.17	0.34	0.51	0.68	0.85	0.76	0.76	0.76	0.76	0.76
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-F2 — 5 #3@ 30 — 9'-F2

BEAM: F2(9'-9) FLOOR: 3

Length: L = 2.80 m Lu = 2.55 m a = 0.00 m c = 0.25 m Section: b = 25.0 cm h = 70.0 cm Sec: S25X70 Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.77	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-12.66	-10.02	-7.40	-4.81	-2.53	-2.53	-2.53	-4.49	-6.81	-9.15	-11.53
Mu(+), ton-m:	10.99	8.86	6.70	4.52	2.53	2.53	2.80	5.29	7.74	10.17	12.58
As(-), cm2:	5.40	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	7.26	7.26	7.26	7.24	7.19	7.15	7.10	7.06	7.03	7.03	7.03
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F2 — 17 #3@ 15 — 9-F2

BEAM: F2(9-8') FLOOR: 3

Length: L = 5.27 m Lu = 5.02 m a = 0.00 m c = 0.25 m Section: b = 25.0 cm h = 70.0 cm Sec: S25X70 Mat: RConcrete2

X, m:	0.00	0.50	1.00	1.51	2.01	2.51	3.01	3.51	4.02	4.52	5.02
Mu(-), ton-m:	-27.84	-20.68	-14.09	-8.10	-7.22	-7.22	-7.22	-11.42	-19.07	-27.30	-36.09
Mu(+), ton-m:	25.70	22.16	18.03	13.31	8.01	7.22	7.22	10.01	13.07	15.55	17.47
As(-), cm2:	12.35	8.99	6.03	5.36	5.36	5.36	5.36	5.36	8.26	12.09	16.53
As(+), cm2:	11.33	9.67	7.79	5.68	5.36	5.36	5.36	5.36	5.58	6.67	7.54
vu, Kg/cm2:	9.87	9.87	9.49	8.97	8.65	9.17	9.70	10.22	10.75	11.13	11.13
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

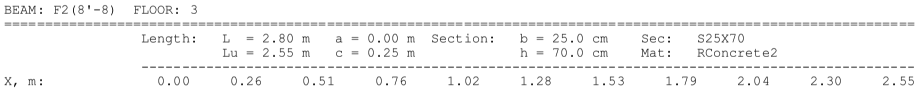
DESIGN

9-F2 — 11 #3@ 15 5 #3@ 30 11 #3@ 15 — 8'-F2

BEAM: F2(8'-8) FLOOR: 3

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.76	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-10.83	-8.63	-6.46	-4.31	-2.60	-2.60	-2.60	-4.99	-7.63	-10.31	-13.01
Mu(+), ton-m:	12.80	10.34	7.85	5.34	2.80	2.60	2.60	4.00	6.01	7.99	9.95
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.55
As(+), cm2:	5.45	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	7.35	7.35	7.35	7.38	7.42	7.47	7.51	7.56	7.58	7.58	7.58
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00



BEAM: F2(8-7) FLOOR: 3

Length: L = 4.21 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 4.21 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.42	0.84	1.26	1.68	2.11	2.53	2.95	3.37	3.79	4.21
Mu(-), ton-m:	-20.73	-16.79	-13.27	-10.16	-7.46	-5.18	-3.32	-1.87	-0.83	-0.21	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	9.02	7.23	5.66	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	5.22	5.22	4.92	4.31	3.69	3.08	2.46	1.85	1.23	0.62	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

BEAM: F3(10-9') FLOOR: 3

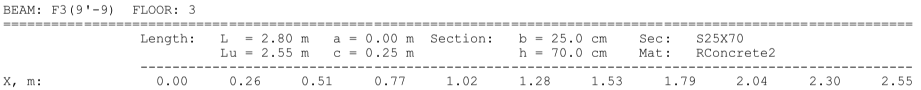
Length: L = 1.41 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 1.16 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.12	0.23	0.35	0.46	0.58	0.70	0.81	0.93	1.04	1.16
Mu(-), ton-m:	0.00	-0.02	-0.07	-0.15	-0.26	-0.41	-0.58	-0.79	-1.04	-1.31	-1.62
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	0.00	0.17	0.35	0.52	0.69	0.86	0.78	0.78	0.78	0.78	0.78
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

BEAM: F3(9'-9) FLOOR: 3

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.77	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-13.35	-10.57	-7.82	-5.09	-2.67	-2.67	-2.67	-4.76	-7.23	-9.73	-12.25
Mu(+), ton-m:	11.80	9.52	7.20	4.87	2.67	2.67	2.93	5.55	8.14	10.71	13.25
As(-), cm2:	5.70	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.65
vu, Kg/cm2:	7.61	7.61	7.61	7.59	7.55	7.50	7.45	7.41	7.39	7.39	7.39
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00



BEAM: F3(9-8') FLOOR: 3

Length: L = 5.27 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 5.02 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.50	1.00	1.51	2.01	2.51	3.01	3.51	4.02	4.52	5.02
Mu(-), ton-m:	-25.78	-18.99	-12.79	-7.20	-6.66	-6.66	-6.66	-10.27	-17.36	-25.06	-33.32
Mu(+), ton-m:	22.68	19.77	16.26	12.15	7.44	6.66	6.66	9.21	11.81	13.82	15.27
As(-), cm2:	11.37	8.22	5.45	5.36	5.36	5.36	5.36	5.36	7.49	11.03	15.02
As(+), cm2:	9.92	8.58	6.99	5.36	5.36	5.36	5.36	5.36	5.36	5.90	6.55
vu, Kg/cm2:	9.18	9.18	8.80	8.26	7.79	8.30	8.84	9.37	9.90	10.29	10.29
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

BEAM: F3(8'-8) FLOOR: 3

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.76	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-10.50	-8.37	-6.25	-4.17	-2.86	-2.86	-2.86	-5.51	-8.41	-11.34	-14.30
Mu(+), ton-m:	14.06	11.35	8.60	5.84	3.04	2.86	2.86	3.91	5.86	7.79	9.69
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	6.12
As(+), cm2:	6.01	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	8.34	8.34	8.34	8.36	8.41	8.45	8.50	8.54	8.57	8.57	8.57
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

BEAM: F3(8-7) FLOOR: 3

Length: L = 4.21 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 4.21 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.42	0.84	1.26	1.68	2.11	2.53	2.95	3.37	3.79	4.21
Mu(-), ton-m:	-21.14	-17.12	-13.53	-10.36	-7.61	-5.28	-3.38	-1.90	-0.85	-0.21	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	9.20	7.38	5.78	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	5.32	5.32	5.02	4.39	3.77	3.14	2.51	1.88	1.26	0.63	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-F3 14 #3@ 30 7-F3

BEAM: G(10-9') FLOOR: 3

Length: L = 1.41 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 1.01 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.10	0.20	0.30	0.40	0.50	0.61	0.71	0.81	0.91	1.01
Mu(-), ton-m:	0.00	-0.03	-0.08	-0.17	-0.29	-0.46	-0.65	-0.87	-1.15	-1.45	-1.80
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.11	0.22	0.33	0.44	0.55	0.66	0.40	0.40	0.40	0.40
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-G 4 #3@ 30 9'-G

BEAM: G(9'-9) FLOOR: 3

Length: L = 2.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.40 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.20	1.44	1.68	1.92	2.16	2.40
Mu(-), ton-m:	-30.31	-24.04	-17.81	-11.63	-6.06	-6.06	-6.06	-10.79	-16.43	-22.11	-27.85
Mu(+), ton-m:	27.28	21.98	16.63	11.24	6.06	6.06	6.63	12.63	18.56	24.45	30.29
As(-), cm2:	12.99	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.90
As(+), cm2:	11.65	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.99
vu, Kg/cm2:	9.16	9.16	9.16	9.15	9.11	9.07	9.03	8.99	8.98	8.98	8.98
Tu, ton-m:	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-G 16 #3@ 15 9-G

BEAM: G(9-8') FLOOR: 3

Length: L = 5.27 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 4.87 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.49	0.97	1.46	1.95	2.44	2.92	3.41	3.90	4.38	4.87
Mu(-), ton-m:	-45.80	-34.42	-23.87	-14.13	-11.96	-11.96	-11.96	-19.77	-32.30	-45.64	-59.79
Mu(+), ton-m:	45.01	38.21	30.59	22.15	12.90	11.96	11.96	16.66	22.31	27.15	31.18
As(-), cm2:	20.04	14.84	10.71	10.71	10.71	10.71	10.71	10.71	13.88	19.97	26.68
As(+), cm2:	19.67	16.55	13.12	10.71	10.71	10.71	10.71	10.71	10.71	11.59	13.38
vu, Kg/cm2:	8.32	8.32	8.07	7.70	7.62	7.98	8.35	8.72	9.09	9.34	9.34
Tu, ton-m:	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-G 11 #3@ 15 5 #3@ 30 11 #3@ 15 8'-G

BEAM: G(8'-8) FLOOR: 3

Length: L = 2.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.40 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.20	1.44	1.68	1.92	2.16	2.40
Mu(-), ton-m:	-26.08	-20.83	-15.62	-10.46	-6.00	-6.00	-6.00	-11.52	-17.64	-23.80	-30.01
Mu(+), ton-m:	29.89	24.11	18.29	12.42	6.50	6.00	6.00	9.72	14.63	19.50	24.31
As(-), cm2:	11.12	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.86
As(+), cm2:	12.81	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	9.00	9.00	9.00	9.01	9.06	9.10	9.14	9.18	9.19	9.19	9.19
Tu, ton-m:	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-G 16 #3@ 15 8-G

BEAM: G(8-7) FLOOR: 3

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 4.21 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.42	0.84	1.26	1.68	2.11	2.53	2.95	3.37	3.79	4.21
Mu(-), ton-m:	-30.93	-25.06	-19.80	-15.16	-11.14	-7.73	-4.95	-2.78	-1.24	-0.31	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.27	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	3.89	3.89	3.67	3.21	2.76	2.30	1.84	1.38	0.92	0.46	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-G 14 #3@ 30 7-G

BEAM: G'(10-9) FLOOR: 3

Length: L = 4.21 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.32	-1.23	-2.73	-4.82	-7.47	-10.62	-14.32	-18.52	-23.25	-28.51
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.95	10.08	12.51
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.78	1.57	2.35	3.09	3.79	4.49	5.19	5.88	6.15	6.15
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-G' 14 #3@ 30 9-G'

BEAM: G'(9-8) FLOOR: 3

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-27.19	-17.80	-10.37	-5.22	-2.11	-1.27	-2.69	-6.27	-11.88	-19.41	-28.85
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	11.89	7.63	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.34	12.66
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.02	5.79	4.29	2.80	1.30	0.23	1.73	3.16	4.50	5.83	6.04
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-G' 26 #3@ 30 8-G'

BEAM: G'(8-7) FLOOR: 3

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-29.88	-24.26	-19.20	-14.73	-10.86	-7.57	-4.87	-2.77	-1.26	-0.33	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.14	10.54	8.25	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.56	6.56	6.26	5.48	4.70	3.91	3.13	2.35	1.57	0.78	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-G' 14 #3@ 30 7-G'

BEAM: H(10-9) FLOOR: 3

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 1.80 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.21	1.45	1.69	1.93	2.17	2.41
Mu(-), ton-m:	0.00	-0.21	-0.52	-1.15	-1.99	-3.03	-4.39	-5.85	-7.69	-9.69	-12.08
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.31	0.62	0.93	1.24	1.55	1.85	2.13	2.23	2.23	2.23
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-H 8 #3@ 30 9-H

BEAM: H(9-8) FLOOR: 3

Length: L = 8.07 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 8.07 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-44.75	-28.34	-14.36	-10.08	-10.08	-10.08	-10.08	-10.08	-18.41	-33.20	-50.40
Mu(+), ton-m:	14.92	13.66	17.15	17.75	15.86	12.70	14.37	14.97	13.07	10.08	16.80
As(-), cm2:	19.55	12.12	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.29	22.19
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.11	5.89	4.93	4.15	3.38	3.02	3.80	4.54	5.27	6.20	6.39
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-H 11 #3@ 15 15 #3@ 30 11 #3@ 15 8-H

BEAM: H(8-7) FLOOR: 3

Length: L = 4.21 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.31	-9.80	-7.75	-5.86	-4.40	-3.05	-2.01	-1.18	-0.55	-0.22	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.27	2.27	2.27	2.17	1.86	1.55	1.24	0.93	0.62	0.31	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-H 8 #3@ 30 7-H

BEAM: H1(10-9) FLOOR: 3

Length: L = 4.21 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.31	-1.21	-2.70	-4.76	-7.38	-10.50	-14.14	-18.30	-22.98	-28.17
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.85	9.95	12.35
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.77	1.55	2.32	3.06	3.75	4.43	5.12	5.81	6.08	6.08
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-H1 14 #3@ 30 9-H1

BEAM: H1(9-8) FLOOR: 3

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-26.79	-17.51	-10.16	-5.06	-1.98	-1.16	-2.57	-6.11	-11.65	-19.10	-28.44
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	11.70	7.49	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.21	12.47
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	5.95	5.72	4.24	2.77	1.29	0.23	1.71	3.13	4.45	5.76	5.97
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-H1 26 #3@ 30 8-H1

BEAM: H1(8-7) FLOOR: 3

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-29.52	-23.96	-18.97	-14.55	-10.72	-7.48	-4.82	-2.74	-1.24	-0.33	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.97	10.40	8.15	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.48	6.48	6.19	5.41	4.64	3.87	3.09	2.32	1.55	0.77	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-H1 14 #3@ 30 7-H1

BEAM: I(11'-10) FLOOR: 3

Length: L = 2.20 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 1.97 m c = 0.23 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.20	0.39	0.59	0.79	0.99	1.18	1.38	1.58	1.78	1.97
Mu(-), ton-m:	0.00	-0.06	-0.20	-0.43	-0.76	-1.17	-1.67	-2.26	-2.94	-3.71	-4.57
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.14	0.29	0.43	0.58	0.72	0.87	0.98	0.98	0.98	0.98
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

11'-I 7 #3@ 30 10-I

BEAM: I(10-9) FLOOR: 3

Length: L = 4.21 m a = 0.23 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.19 m c = 1.80 m h = 70.0 cm Mat: RConcrete2

X, m:	0.23	0.44	0.66	0.88	1.10	1.32	1.54	1.76	1.97	2.19	2.41
Mu(-), ton-m:	-15.98	-8.72	-6.48	-5.69	-7.92	-10.80	-13.94	-17.20	-20.71	-24.42	-28.44
Mu(+), ton-m:	5.69	5.69	5.69	6.77	13.92	20.98	27.77	34.45	40.87	47.09	53.01
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.16
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	11.87	14.85	17.77	20.64	23.43
vu, Kg/cm2:	13.38	13.38	13.38	13.37	13.21	13.04	12.93	12.86	12.86	12.86	12.86
Tu, ton-m:	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

10-I 15 #3@ 15 9-I

BEAM: I(9-8) FLOOR: 3

Length: L = 8.07 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 8.07 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-45.37	-28.49	-14.12	-9.96	-9.96	-9.96	-9.96	-9.96	-17.63	-32.47	-49.80
Mu(+), ton-m:	15.12	11.98	16.13	17.29	15.85	13.26	15.09	15.54	13.41	9.96	16.60
As(-), cm2:	19.84	12.19	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.96	21.91
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.28	6.06	5.05	4.24	3.44	2.96	3.77	4.54	5.27	6.24	6.44
Tu, ton-m:	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-I 11 #3@ 15 15 #3@ 30 11 #3@ 15 8-I

BEAM: I(8-7) FLOOR: 3

Length: L = 4.21 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.45	-9.92	-7.84	-5.93	-4.45	-3.09	-2.04	-1.19	-0.55	-0.22	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.30	2.30	2.30	2.19	1.88	1.57	1.25	0.94	0.63	0.31	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-I 8 #3@ 30 7-I

BEAM: I1(11'-10) FLOOR: 3

Length: L = 2.20 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 1.95 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.19	0.39	0.58	0.78	0.97	1.17	1.36	1.56	1.75	1.95
Mu(-), ton-m:	0.00	-0.08	-0.28	-0.61	-1.06	-1.63	-2.33	-3.15	-4.10	-5.18	-6.41
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.34	0.68	1.02	1.37	1.71	2.05	2.29	2.29	2.29	2.29
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

11'-I1 7 #3@ 30 10-I1

BEAM: I1(10-9) FLOOR: 3

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.71 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.62	0.99	1.36	1.73	2.11	2.48	2.85	3.22	3.59	3.96
Mu(-), ton-m:	-6.54	-4.88	-3.63	-2.81	-2.43	-2.54	-3.15	-4.27	-5.82	-7.87	-10.38
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	1.61	1.61	1.44	0.85	0.18	0.51	1.18	1.86	2.54	2.72	2.72
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-I1 13 #3@ 30 9-I1

BEAM: I1(9-8) FLOOR: 3

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-9.93	-2.76	0.00	0.00	0.00	0.00	0.00	-1.15	-8.15	-17.72	-29.26
Mu(+), ton-m:	0.00	0.84	4.16	7.68	9.09	8.15	4.96	0.59	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.59	12.86
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	5.03	4.79	3.24	1.69	0.23	1.45	3.00	4.49	5.87	7.25	7.47
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-I1 26 #3@ 30 8-I1

BEAM: I1(8-7) FLOOR: 3

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-30.07	-24.41	-19.32	-14.83	-10.92	-7.62	-4.91	-2.79	-1.26	-0.33	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.23	10.61	8.30	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.60	6.60	6.30	5.51	4.73	3.94	3.15	2.36	1.58	0.79	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-I1 14 #3@ 30 7-I1

BEAM: J(11'-10) FLOOR: 3

Length: L = 2.20 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 1.95 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.19	0.39	0.58	0.78	0.97	1.17	1.36	1.56	1.75	1.95
Mu(-), ton-m:	0.00	-0.08	-0.30	-0.65	-1.14	-1.76	-2.51	-3.40	-4.42	-5.58	-6.90
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.22	0.44	0.66	0.88	1.10	1.32	1.48	1.48	1.48	1.48
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

11'-J 7 #3@ 30 10-J

BEAM: J(10-9) FLOOR: 3

Length: L = 4.21 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.16 m c = 1.80 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.47	0.68	0.90	1.11	1.33	1.55	1.76	1.98	2.20	2.41
Mu(-), ton-m:	-11.89	-8.23	-8.23	-9.56	-13.57	-17.67	-21.99	-26.44	-31.12	-36.00	-41.17
Mu(+), ton-m:	8.23	8.23	8.23	8.23	8.23	12.67	17.07	21.35	25.39	29.23	32.79
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.28	13.35	15.55	17.90
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.82	12.52	14.10
vu, Kg/cm2:	7.69	7.69	7.69	7.68	7.55	7.41	7.31	7.26	7.26	7.26	7.26
Tu, ton-m:	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

10-J 15 #3@ 15 9-J

BEAM: J(9-8) FLOOR: 3

Length: L = 8.07 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 8.07 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-45.84	-29.05	-14.71	-9.55	-9.55	-9.55	-9.55	-9.55	-16.67	-30.98	-47.73
Mu(+), ton-m:	15.28	10.78	15.07	16.41	15.23	12.91	14.95	15.67	13.85	9.60	15.91
As(-), cm2:	20.06	12.43	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.29	20.94
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.25	6.04	4.99	4.20	3.41	2.80	3.59	4.35	5.07	6.02	6.22
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-J 11 #3@ 15 15 #3@ 30 11 #3@ 15 8-J

BEAM: J(8-7) FLOOR: 3

Length: L = 4.21 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.52	-9.97	-7.88	-5.96	-4.48	-3.10	-2.05	-1.20	-0.56	-0.23	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.31	2.31	2.31	2.20	1.89	1.57	1.26	0.94	0.63	0.31	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-J 8 #3@ 30 7-J

BEAM: J1(11'-10) FLOOR: 3

Length: L = 2.20 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 1.95 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.19	0.39	0.58	0.78	0.97	1.17	1.36	1.56	1.75	1.95
Mu(-), ton-m:	0.00	-0.08	-0.28	-0.61	-1.06	-1.63	-2.33	-3.15	-4.10	-5.18	-6.41
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.34	0.68	1.02	1.37	1.71	2.05	2.29	2.29	2.29	2.29
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

11'-J1 7 #3@ 30 10-J1

BEAM: J1(10-9) FLOOR: 3

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.71 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.62	0.99	1.36	1.73	2.11	2.48	2.85	3.22	3.59	3.96
Mu(-), ton-m:	-6.75	-5.00	-3.65	-2.73	-2.26	-2.27	-2.78	-3.80	-5.26	-7.21	-9.62
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	1.74	1.74	1.58	0.99	0.32	0.37	1.05	1.73	2.40	2.59	2.59
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-J1 13 #3@ 30 9-J1

BEAM: J1(9-8) FLOOR: 3

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-9.22	-2.31	0.00	0.00	0.00	0.00	0.00	-1.52	-8.70	-18.42	-30.13
Mu(+), ton-m:	0.00	0.95	4.55	7.91	9.16	8.07	4.72	0.56	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.90	13.26
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	4.92	4.68	3.13	1.58	0.20	1.56	3.11	4.60	5.98	7.36	7.57
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-J1 26 #3@ 30 8-J1

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:55 a.m. 05/08/2010

BEAM: J1(8-7) FLOOR: 3

	Length:	L = 4.21 m	a = 0.25 m	Section:	b = 30.0 cm	Sec:	S30X70			
		Lu = 3.96 m	c = 0.00 m		h = 70.0 cm	Mat:	RConcrete2			
X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-30.96	-25.13	-19.89	-15.26	-11.25	-7.84	-5.05	-2.87	-1.30	-0.34	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.65	10.94	8.56	6.50	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.80	6.80	6.49	5.68	4.87	4.05	3.24	2.43	1.62	0.81	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-J1 — 14 #3@ 30 — 7-J1

BEAM: K(11'-10) FLOOR: 3

	Length:	L = 2.20 m	a = 0.00 m	Section:	b = 50.0 cm	Sec:	S50X70			
		Lu = 1.95 m	c = 0.25 m		h = 70.0 cm	Mat:	RConcrete2			
X, m:	0.00	0.19	0.39	0.58	0.78	0.97	1.17	1.36	1.56	1.75	1.95
Mu(-), ton-m:	0.00	-0.09	-0.31	-0.67	-1.16	-1.80	-2.56	-3.47	-4.51	-5.70	-7.05
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.23	0.45	0.68	0.90	1.13	1.35	1.51	1.51	1.51	1.51
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

11'-K — 7 #3@ 30 — 10-K

BEAM: K(10-9) FLOOR: 3

	Length:	L = 4.21 m	a = 0.25 m	Section:	b = 50.0 cm	Sec:	S50X70			
		Lu = 2.16 m	c = 1.80 m		h = 70.0 cm	Mat:	RConcrete2			
X, m:	0.25	0.47	0.68	0.90	1.11	1.33	1.55	1.76	1.98	2.20	2.41
Mu(-), ton-m:	-13.19	-8.58	-8.11	-8.77	-12.59	-16.51	-20.66	-24.93	-29.44	-34.16	-39.17
Mu(+), ton-m:	7.83	7.83	7.83	7.83	8.27	13.25	18.01	22.65	27.05	31.25	35.15
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.61	14.72	16.99
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.55	13.41	15.16
vu, Kg/cm2:	8.51	8.51	8.51	8.50	8.36	8.22	8.12	8.05	8.05	8.05	8.05
Tu, ton-m:	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

10-K — 15 #3@ 15 — 9-K

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:55 a.m. 05/08/2010

BEAM: K(9-8) FLOOR: 3

	Length:	L = 8.07 m	a = 0.00 m	Section:	b = 50.0 cm	Sec:	S50X70				
		Lu = 8.07 m	c = 0.00 m		h = 70.0 cm	Mat:	RConcrete2				
X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-46.70	-29.56	-14.95	-9.36	-9.36	-9.36	-9.36	-9.36	-15.87	-30.10	-46.82
Mu(+), ton-m:	15.57	9.46	14.23	16.00	15.17	13.13	15.25	15.95	14.07	9.70	15.61
As(-), cm2:	20.46	12.66	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.90	20.52
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.38	6.16	5.08	4.26	3.45	2.76	3.53	4.30	5.03	6.00	6.20
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-K — 11 #3@ 15 15 #3@ 30 11 #3@ 15 — 8-K

BEAM: K(8-7) FLOOR: 3

	Length:	L = 4.21 m	a = 1.80 m	Section:	b = 50.0 cm	Sec:	S50X70			
		Lu = 2.41 m	c = 0.00 m		h = 70.0 cm	Mat:	RConcrete2			
X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.79	-10.19	-8.05	-6.09	-4.57	-3.17	-2.09	-1.22	-0.57	-0.23	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.36	2.36	2.36	2.25	1.93	1.61	1.29	0.96	0.64	0.32	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-K — 8 #3@ 30 — 7-K

BEAM: K1(11'-10) FLOOR: 3

	Length:	L = 2.20 m	a = 0.00 m	Section:	b = 30.0 cm	Sec:	S30X70			
		Lu = 1.95 m	c = 0.25 m		h = 70.0 cm	Mat:	RConcrete2			
X, m:	0.00	0.19	0.39	0.58	0.78	0.97	1.17	1.36	1.56	1.75	1.95
Mu(-), ton-m:	0.00	-0.08	-0.28	-0.61	-1.06	-1.63	-2.33	-3.15	-4.10	-5.18	-6.41
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.34	0.68	1.02	1.37	1.71	2.05	2.29	2.29	2.29	2.29
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

11'-K1 — 7 #3@ 30 — 10-K1

BEAM: K1(10-9) FLOOR: 3

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.71 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.62	0.99	1.36	1.73	2.11	2.48	2.85	3.22	3.59	3.96
Mu(-), ton-m:	-6.79	-5.09	-3.80	-2.93	-2.51	-2.58	-3.14	-4.21	-5.73	-7.73	-10.19
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	1.67	1.67	1.51	0.91	0.25	0.45	1.12	1.80	2.48	2.66	2.66
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-K1 13 #3@ 30 9-K1

BEAM: K1(9-8) FLOOR: 3

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-9.80	-2.71	0.00	0.00	0.00	0.00	0.00	-1.63	-8.76	-18.42	-30.06
Mu(+), ton-m:	0.00	0.83	4.08	7.51	8.83	7.81	4.52	0.53	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.90	13.23
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	4.96	4.72	3.17	1.62	0.20	1.51	3.06	4.55	5.93	7.31	7.53
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-K1 26 #3@ 30 8-K1

BEAM: K1(8-7) FLOOR: 3

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-30.96	-25.13	-19.89	-15.26	-11.25	-7.84	-5.05	-2.87	-1.30	-0.34	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.65	10.94	8.56	6.50	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.80	6.80	6.49	5.68	4.87	4.05	3.24	2.43	1.62	0.81	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-K1 14 #3@ 30 7-K1

BEAM: L(11'-10) FLOOR: 3

Length: L = 2.20 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 1.95 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.19	0.39	0.58	0.78	0.97	1.17	1.36	1.56	1.75	1.95
Mu(-), ton-m:	0.00	-0.09	-0.31	-0.67	-1.16	-1.80	-2.56	-3.47	-4.51	-5.70	-7.05
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.23	0.45	0.68	0.90	1.13	1.35	1.51	1.51	1.51	1.51
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

11'-L 7 #3@ 30 10-L

BEAM: L(10-9) FLOOR: 3

Length: L = 4.21 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.16 m c = 1.80 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.47	0.68	0.90	1.11	1.33	1.55	1.76	1.98	2.19	2.41
Mu(-), ton-m:	-13.78	-11.22	-11.22	-11.52	-17.37	-23.32	-29.50	-35.80	-42.33	-49.08	-56.12
Mu(+), ton-m:	11.22	11.22	11.22	11.22	11.22	16.31	21.81	27.18	32.32	37.25	41.88
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	12.63	15.46	18.44	21.57	24.91
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.61	13.89	16.11	18.23
vu, Kg/cm2:	9.86	9.86	9.86	9.85	9.92	10.07	10.16	10.23	10.23	10.23	10.23
Tu, ton-m:	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

10-L 15 #3@ 15 9-L

BEAM: L(9-8) FLOOR: 3

Length: L = 8.07 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 6.27 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.43	3.05	3.68	4.31	4.93	5.56	6.19	6.81	7.44	8.07
Mu(-), ton-m:	-53.83	-37.84	-24.32	-12.46	-10.77	-10.77	-10.77	-10.77	-19.57	-31.20	-44.22
Mu(+), ton-m:	17.94	18.73	18.09	15.79	12.43	10.77	14.13	19.07	22.97	25.50	26.64
As(-), cm2:	23.81	16.38	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.39	19.30
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.87	11.37
vu, Kg/cm2:	7.21	7.21	6.39	5.56	5.02	4.61	4.79	5.35	5.92	6.47	6.47
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-L 11 #3@ 15 9 #3@ 30 11 #3@ 15 8-L

BEAM: L(8-7) FLOOR: 3

Length: L = 4.21 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.79	-10.19	-8.05	-6.09	-4.57	-3.17	-2.09	-1.22	-0.57	-0.23	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.36	2.36	2.36	2.25	1.93	1.61	1.29	0.96	0.64	0.32	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-L 8 #3@ 30 7-L

BEAM: L1(11'-10) FLOOR: 3

Length: L = 2.20 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 1.95 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.19	0.39	0.58	0.78	0.97	1.17	1.36	1.56	1.75	1.95
Mu(-), ton-m:	0.00	-0.08	-0.28	-0.61	-1.06	-1.63	-2.33	-3.15	-4.10	-5.18	-6.41
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.34	0.68	1.02	1.37	1.71	2.05	2.29	2.29	2.29	2.29
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

11'-L1 7 #3@ 30 10-L1

BEAM: L1(10-9) FLOOR: 3

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.71 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.62	0.99	1.36	1.73	2.11	2.48	2.85	3.22	3.59	3.96
Mu(-), ton-m:	-6.93	-5.28	-4.06	-3.25	-2.89	-3.02	-3.65	-4.78	-6.36	-8.42	-10.95
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	1.58	1.58	1.42	0.82	0.17	0.53	1.21	1.89	2.56	2.75	2.75
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-L1 13 #3@ 30 9-L1

BEAM: L1(9-8) FLOOR: 3

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-10.51	-3.20	0.00	0.00	0.00	0.00	0.00	-1.77	-8.86	-18.44	-29.99
Mu(+), ton-m:	0.00	0.68	3.51	7.02	8.42	7.47	4.26	0.50	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.91	13.20
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	5.01	4.77	3.22	1.67	0.22	1.46	3.01	4.50	5.88	7.26	7.47
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-L1 26 #3@ 30 8-L1

BEAM: L1(8-7) FLOOR: 3

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-30.96	-25.13	-19.89	-15.26	-11.25	-7.84	-5.05	-2.87	-1.30	-0.34	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.65	10.94	8.56	6.50	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.80	6.80	6.49	5.68	4.87	4.05	3.24	2.43	1.62	0.81	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-L1 14 #3@ 30 7-L1

BEAM: M(11'-10) FLOOR: 3

Length: L = 2.20 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 1.95 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.19	0.39	0.58	0.78	0.97	1.17	1.36	1.56	1.75	1.95
Mu(-), ton-m:	0.00	-0.09	-0.31	-0.67	-1.16	-1.80	-2.56	-3.47	-4.51	-5.70	-7.05
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.23	0.45	0.68	0.90	1.13	1.35	1.51	1.51	1.51	1.51
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

11'-M 7 #3@ 30 10-M

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:55 a.m. 05/08/2010

BEAM: M(10-9) FLOOR: 3

Length: L = 4.21 m a = 0.25 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.16 m c = 1.80 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.47	0.68	0.90	1.11	1.33	1.55	1.76	1.98	2.20	2.41
Mu(-), ton-m:	-9.92	-9.92	-9.92	-9.92	-14.30	-19.67	-25.26	-30.99	-36.95	-43.12	-49.58
Mu(+), ton-m:	9.92	9.92	9.92	9.92	9.92	9.92	9.92	9.92	9.92	9.92	16.53
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.76	13.30	15.98	18.80	21.80
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	10.89	10.89	10.89	10.90	11.04	11.18	11.28	11.35	11.35	11.35	11.35
Tu, ton-m:	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

10-M 15 #3@ 15 9-M

BEAM: M(9-8) FLOOR: 3

Length: L = 8.07 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 8.07 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-43.44	-26.89	-12.86	-8.69	-8.69	-8.69	-8.69	-8.69	-11.82	-24.79	-40.27
Mu(+), ton-m:	14.48	8.69	10.79	13.80	14.23	13.18	15.00	15.12	12.65	8.69	13.42
As(-), cm2:	18.94	11.48	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	17.49
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.15	5.93	4.92	4.12	3.31	2.50	3.20	3.97	4.69	5.52	5.72
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-M 11 #3@ 15 15 #3@ 30 11 #3@ 15 8-M

BEAM: M(8-7) FLOOR: 3

Length: L = 4.21 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-20.14	-16.71	-13.75	-10.96	-8.62	-6.39	-4.49	-2.88	-1.57	-0.91	-0.47
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.91
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	3.43	3.43	3.43	3.32	3.00	2.68	2.36	2.03	1.71	1.39	1.07
Tu, ton-m:	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-M 8 #3@ 30 7-M

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:55 a.m. 05/08/2010

BEAM: M1(11'-10) FLOOR: 3

Length: L = 2.20 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 1.95 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.19	0.39	0.58	0.78	0.97	1.17	1.36	1.56	1.75	1.95
Mu(-), ton-m:	0.00	-0.08	-0.28	-0.61	-1.06	-1.63	-2.33	-3.15	-4.10	-5.18	-6.41
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.34	0.68	1.02	1.37	1.71	2.05	2.29	2.29	2.29	2.29
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

11'-M1 7 #3@ 30 10-M1

BEAM: M1(10-9) FLOOR: 3

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.71 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.62	0.99	1.36	1.73	2.11	2.48	2.85	3.22	3.59	3.96
Mu(-), ton-m:	-6.86	-5.31	-4.18	-3.46	-3.19	-3.42	-4.13	-5.37	-7.03	-9.19	-11.81
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	1.45	1.45	1.29	0.69	0.10	0.66	1.33	2.01	2.69	2.87	2.87
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-M1 13 #3@ 30 9-M1

BEAM: M1(9-8) FLOOR: 3

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-11.31	-3.76	0.00	0.00	0.00	0.00	0.00	-1.96	-9.00	-18.49	-29.96
Mu(+), ton-m:	0.00	0.52	2.86	6.45	7.94	7.08	3.94	0.46	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.93	13.18
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	5.07	4.83	3.28	1.73	0.25	1.40	2.95	4.44	5.82	7.20	7.41
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-M1 26 #3@ 30 8-M1

BEAM: M1(8-7) FLOOR: 3

Length: L = 4.21 m Lu = 3.96 m a = 0.25 m c = 0.00 m Section: b = 30.0 cm h = 70.0 cm Sec: S30X70 Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-30.96	-25.13	-19.89	-15.26	-11.25	-7.84	-5.05	-2.87	-1.30	-0.34	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.65	10.94	8.56	6.50	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.80	6.80	6.49	5.68	4.87	4.05	3.24	2.43	1.62	0.81	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-M1 — 14 #3@ 30 — 7-M1

BEAM: N(11'-10) FLOOR: 3

Length: L = 2.20 m Lu = 1.95 m a = 0.00 m c = 0.25 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.19	0.39	0.58	0.78	0.97	1.17	1.36	1.56	1.75	1.95
Mu(-), ton-m:	0.00	-0.05	-0.19	-0.41	-0.71	-1.10	-1.57	-2.13	-2.77	-3.50	-4.33
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.14	0.28	0.41	0.55	0.69	0.83	0.93	0.93	0.93	0.93
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

11'-N — 7 #3@ 30 — 10-N

BEAM: N(10-9) FLOOR: 3

Length: L = 4.21 m Lu = 2.16 m a = 0.25 m c = 1.80 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.25	0.47	0.68	0.90	1.11	1.33	1.55	1.76	1.98	2.19	2.41
Mu(-), ton-m:	-9.40	-9.22	-9.22	-9.22	-13.18	-18.36	-23.68	-29.07	-34.61	-40.27	-46.12
Mu(+), ton-m:	9.22	9.22	9.22	9.22	9.22	9.22	11.30	14.40	17.36	20.19	22.84
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.44	14.92	17.49	20.19
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	9.38	9.38	9.38	9.39	9.47	9.56	9.62	9.66	9.67	9.67	9.67
Tu, ton-m:	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

10-N — 15 #3@ 15 — 9-N

BEAM: N(9-8) FLOOR: 3

Length: L = 8.07 m Lu = 6.27 m a = 1.80 m c = 0.00 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	1.80	2.43	3.05	3.68	4.31	4.93	5.56	6.19	6.81	7.44	8.07
Mu(-), ton-m:	-41.17	-29.78	-19.87	-10.95	-8.23	-8.23	-8.23	-8.23	-15.39	-23.62	-32.70
Mu(+), ton-m:	16.27	16.14	14.54	11.94	8.82	8.23	10.49	15.17	19.30	22.59	25.03
As(-), cm2:	17.90	12.76	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.06
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.22	5.22	4.73	4.36	4.12	3.87	3.76	4.10	4.44	4.78	4.78
Tu, ton-m:	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-N — 11 #3@ 15 9 #3@ 30 11 #3@ 15 — 8-N

BEAM: N(8-7) FLOOR: 3

Length: L = 4.21 m Lu = 2.41 m a = 1.80 m c = 0.00 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-7.65	-6.09	-4.82	-3.64	-2.74	-1.90	-1.25	-0.73	-0.34	-0.14	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	1.41	1.41	1.41	1.35	1.15	0.96	0.77	0.58	0.38	0.19	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-N — 8 #3@ 30 — 7-N

BEAM: B'(10-9) FLOOR: 4

Length: L = 4.21 m Lu = 3.96 m a = 0.00 m c = 0.25 m Section: b = 30.0 cm h = 70.0 cm Sec: S30X70 Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.19	-0.72	-1.61	-2.85	-4.42	-6.29	-8.48	-10.98	-13.79	-16.92
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.24
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.46	0.92	1.39	1.83	2.25	2.66	3.08	3.50	3.66	3.66
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-B' — 14 #3@ 30 — 9-B'

BEAM: B'(9-8) FLOOR: 4

Length:	L = 8.07 m	a = 0.25 m	Section:	b = 30.0 cm	Sec:	S30X70				
	Lu = 7.57 m	c = 0.25 m		h = 70.0 cm	Mat:	RConcrete2				
X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-16.68	-11.10	-6.67	-3.60	-1.73	-1.21	-2.04	-4.16	-7.49	-11.97	-17.59
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	7.13	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.53
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	3.58	3.44	2.56	1.67	0.79	0.14	1.02	1.87	2.67	3.47	3.59
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-B' 26 #3@ 30 8-B'

BEAM: B'(8-7) FLOOR: 4

Length:	L = 4.21 m	a = 0.25 m	Section:	b = 30.0 cm	Sec:	S30X70				
	Lu = 3.96 m	c = 0.00 m		h = 70.0 cm	Mat:	RConcrete2				
X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-17.64	-14.32	-11.34	-8.70	-6.41	-4.47	-2.88	-1.64	-0.74	-0.20	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	7.55	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	3.87	3.87	3.70	3.23	2.77	2.31	1.85	1.39	0.92	0.46	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-B' 14 #3@ 30 7-B'

BEAM: C(10-9) FLOOR: 4

Length:	L = 4.21 m	a = 0.00 m	Section:	b = 50.0 cm	Sec:	S50X70				
	Lu = 2.41 m	c = 1.80 m		h = 70.0 cm	Mat:	RConcrete2				
X, m:	0.00	0.24	0.48	0.72	0.96	1.21	1.45	1.69	1.93	2.17	2.41
Mu(-), ton-m:	0.00	-0.22	-0.55	-1.20	-2.07	-3.16	-4.58	-6.10	-8.03	-10.11	-12.60
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.32	0.65	0.97	1.29	1.62	1.93	2.22	2.32	2.32	2.32
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-C 8 #3@ 30 9-C

BEAM: C(9-8) FLOOR: 4

Length:	L = 8.07 m	a = 1.80 m	Section:	b = 50.0 cm	Sec:	S50X70				
	Lu = 6.27 m	c = 0.00 m		h = 70.0 cm	Mat:	RConcrete2				
X, m:	1.80	2.43	3.05	3.68	4.31	4.93	5.56	6.19	6.81	7.44	8.07
Mu(-), ton-m:	-66.37	-47.81	-31.73	-17.31	-13.86	-13.86	-13.86	-19.13	-34.46	-51.18	-69.30
Mu(+), ton-m:	42.41	39.23	33.56	26.22	18.07	13.86	17.11	24.34	30.76	35.80	39.43
As(-), cm2:	29.90	20.97	13.63	10.71	10.71	10.71	10.71	10.71	14.85	22.56	31.36
As(+), cm2:	18.47	17.01	14.45	11.18	10.71	10.71	10.71	10.71	13.20	15.45	17.11
vu, Kg/cm2:	8.49	8.49	7.67	6.83	6.29	6.51	6.99	7.56	8.13	8.75	8.75
Tu, ton-m:	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-C 11 #3@ 15 9 #3@ 30 11 #3@ 15 8-C

BEAM: C(8-7) FLOOR: 4

Length:	L = 4.21 m	a = 1.80 m	Section:	b = 50.0 cm	Sec:	S50X70				
	Lu = 2.41 m	c = 0.00 m		h = 70.0 cm	Mat:	RConcrete2				
X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.86	-10.24	-8.09	-6.12	-4.60	-3.19	-2.10	-1.23	-0.57	-0.23	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.38	2.38	2.38	2.26	1.94	1.62	1.29	0.97	0.65	0.32	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-C 8 #3@ 30 7-C

BEAM: C1(10-9) FLOOR: 4

Length:	L = 4.21 m	a = 0.00 m	Section:	b = 30.0 cm	Sec:	S30X70				
	Lu = 3.96 m	c = 0.25 m		h = 70.0 cm	Mat:	RConcrete2				
X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.33	-1.27	-2.83	-4.99	-7.74	-11.01	-14.83	-19.19	-24.09	-29.54
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.24	10.46	12.98
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.81	1.62	2.43	3.20	3.93	4.65	5.37	6.09	6.37	6.37
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-C1 14 #3@ 30 9-C1

BEAM: C1(9-8) FLOOR: 4

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-28.21	-18.47	-10.76	-5.41	-2.17	-1.30	-2.78	-6.51	-12.33	-20.15	-29.94
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.36	7.92	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.67	13.18
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.24	6.01	4.46	2.91	1.35	0.25	1.80	3.29	4.67	6.05	6.26
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-C1 — 26 #3@ 30 — 8-C1

BEAM: C1(8-7) FLOOR: 4

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-30.96	-25.13	-19.89	-15.26	-11.25	-7.84	-5.05	-2.87	-1.30	-0.34	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.65	10.94	8.56	6.50	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.80	6.80	6.49	5.68	4.87	4.05	3.24	2.43	1.62	0.81	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-C1 — 14 #3@ 30 — 7-C1

BEAM: D(10-9) FLOOR: 4

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 1.80 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.21	1.45	1.69	1.93	2.17	2.41
Mu(-), ton-m:	0.00	-0.22	-0.54	-1.19	-2.06	-3.15	-4.56	-6.07	-7.99	-10.07	-12.55
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.32	0.64	0.96	1.29	1.61	1.92	2.21	2.31	2.31	2.31
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-D — 8 #3@ 30 — 9-D

BEAM: D(9-8) FLOOR: 4

Length: L = 8.07 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 8.07 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-50.04	-32.21	-16.89	-12.27	-12.27	-12.27	-12.27	-12.27	-24.37	-41.60	-61.33
Mu(+), ton-m:	17.74	22.01	23.77	22.53	18.70	13.94	16.08	17.48	16.30	12.62	20.44
As(-), cm2:	22.02	13.84	10.71	10.71	10.71	10.71	10.71	10.71	10.71	18.10	27.43
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.65	6.43	5.45	4.64	3.83	3.78	4.59	5.36	6.20	7.16	7.36
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-D — 11 #3@ 15 15 #3@ 30 11 #3@ 15 — 8-D

BEAM: D(8-7) FLOOR: 4

Length: L = 4.21 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.79	-10.19	-8.05	-6.09	-4.57	-3.17	-2.09	-1.22	-0.57	-0.23	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.36	2.36	2.36	2.25	1.93	1.61	1.29	0.96	0.64	0.32	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-D — 8 #3@ 30 — 7-D

BEAM: D1(10-9) FLOOR: 4

Length: L = 4.21 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.33	-1.27	-2.83	-4.99	-7.74	-11.01	-14.83	-19.19	-24.09	-29.54
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.24	10.46	12.98
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.81	1.62	2.43	3.20	3.93	4.65	5.37	6.09	6.37	6.37
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-D1 — 14 #3@ 30 — 9-D1

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:55 a.m. 05/08/2010

BEAM: D1(9-8) FLOOR: 4

Length: L = 8.07 m Lu = 7.57 m a = 0.25 m c = 0.25 m Section: b = 30.0 cm h = 70.0 cm Sec: S30X70 Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-28.10	-18.38	-10.68	-5.35	-2.13	-1.28	-2.78	-6.52	-12.36	-20.19	-30.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.31	7.88	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.69	13.20
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.23	5.99	4.44	2.89	1.34	0.26	1.81	3.30	4.68	6.06	6.27
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-D1 — 26 #3@ 30 — 8-D1

BEAM: D1(8-7) FLOOR: 4

Length: L = 4.21 m Lu = 3.96 m a = 0.25 m c = 0.00 m Section: b = 30.0 cm h = 70.0 cm Sec: S30X70 Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-30.96	-25.13	-19.89	-15.26	-11.25	-7.84	-5.05	-2.87	-1.30	-0.34	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.65	10.94	8.56	6.50	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.80	6.80	6.49	5.68	4.87	4.05	3.24	2.43	1.62	0.81	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-D1 — 14 #3@ 30 — 7-D1

BEAM: E(10-9) FLOOR: 4

Length: L = 4.21 m Lu = 2.41 m a = 0.00 m c = 1.80 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.21	1.45	1.69	1.93	2.17	2.41
Mu(-), ton-m:	0.00	-0.22	-0.54	-1.19	-2.06	-3.15	-4.56	-6.07	-7.99	-10.07	-12.55
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.32	0.64	0.96	1.29	1.61	1.92	2.21	2.31	2.31	2.31
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-E — 8 #3@ 30 — 9-E

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:55 a.m. 05/08/2010

BEAM: E(9-8) FLOOR: 4

Length: L = 8.07 m Lu = 8.07 m a = 0.00 m c = 0.00 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-48.23	-30.77	-15.82	-11.64	-11.64	-11.64	-11.64	-11.64	-22.48	-39.08	-58.18
Mu(+), ton-m:	16.08	19.49	21.88	21.27	18.07	13.78	15.69	16.73	15.17	11.64	19.39
As(-), cm2:	21.17	13.20	10.71	10.71	10.71	10.71	10.71	10.71	10.71	16.95	25.90
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.51	6.28	5.28	4.47	3.66	3.54	4.34	5.11	5.95	6.92	7.12
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-E — 11 #3@ 15 15 #3@ 30 11 #3@ 15 — 8-E

BEAM: E(8-7) FLOOR: 4

Length: L = 4.21 m Lu = 2.41 m a = 1.80 m c = 0.00 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.79	-10.19	-8.05	-6.09	-4.57	-3.17	-2.09	-1.22	-0.57	-0.23	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.36	2.36	2.36	2.25	1.93	1.61	1.29	0.96	0.64	0.32	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-E — 8 #3@ 30 — 7-E

BEAM: E'(10-9) FLOOR: 4

Length: L = 4.21 m Lu = 3.96 m a = 0.00 m c = 0.25 m Section: b = 30.0 cm h = 70.0 cm Sec: S30X70 Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.33	-1.27	-2.83	-4.99	-7.74	-11.01	-14.83	-19.19	-24.09	-29.54
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.24	10.46	12.98
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.81	1.62	2.43	3.20	3.93	4.65	5.37	6.09	6.37	6.37
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-E' — 14 #3@ 30 — 9-E'

BEAM: E'(9-8) FLOOR: 4

	Length:	L = 8.07 m Lu = 7.57 m	a = 0.25 m c = 0.25 m	Section:	b = 30.0 cm h = 70.0 cm	Sec: Mat:	S30X70 RConcrete2			
X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-28.19	-18.47	-10.77	-5.44	-2.22	-1.37	-2.85	-6.57	-12.39	-20.20	-30.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.35	7.92	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.70	13.20
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.23	5.99	4.44	2.89	1.34	0.25	1.80	3.28	4.66	6.05	6.26
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-E' 26 #3@ 30 8-E'

BEAM: E'(8-7) FLOOR: 4

	Length:	L = 4.21 m Lu = 3.96 m	a = 0.25 m c = 0.00 m	Section:	b = 30.0 cm h = 70.0 cm	Sec: Mat:	S30X70 RConcrete2			
X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-30.96	-25.13	-19.89	-15.26	-11.25	-7.84	-5.05	-2.87	-1.30	-0.34	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.65	10.94	8.56	6.50	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.80	6.80	6.49	5.68	4.87	4.05	3.24	2.43	1.62	0.81	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-E' 14 #3@ 30 7-E'

BEAM: F(10-9') FLOOR: 4

	Length:	L = 1.41 m Lu = 1.01 m	a = 0.00 m c = 0.40 m	Section:	b = 50.0 cm h = 70.0 cm	Sec: Mat:	S50X70 RConcrete2			
X, m:	0.00	0.10	0.20	0.30	0.40	0.50	0.61	0.71	0.81	0.91	1.01
Mu(-), ton-m:	0.00	-0.03	-0.08	-0.16	-0.28	-0.44	-0.63	-0.84	-1.11	-1.41	-1.74
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.11	0.21	0.32	0.43	0.53	0.64	0.39	0.39	0.39	0.39
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-F 4 #3@ 30 9'-F

BEAM: F(9'-9) FLOOR: 4

	Length:	L = 2.80 m Lu = 2.40 m	a = 0.00 m c = 0.40 m	Section:	b = 50.0 cm h = 70.0 cm	Sec: Mat:	S50X70 RConcrete2			
X, m:	0.00	0.24	0.48	0.72	0.96	1.20	1.44	1.68	1.92	2.16	2.40
Mu(-), ton-m:	-33.64	-26.71	-19.83	-12.99	-6.73	-6.73	-6.73	-11.12	-16.68	-22.28	-27.94
Mu(+), ton-m:	26.38	21.16	15.90	10.58	6.73	6.73	7.24	13.89	20.48	27.03	33.52
As(-), cm2:	14.49	11.40	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.94
As(+), cm2:	11.25	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.54	14.43
vu, Kg/cm2:	10.47	10.47	10.47	10.46	10.42	10.38	10.34	10.30	10.29	10.29	10.29
Tu, ton-m:	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F 16 #3@ 15 9-F

BEAM: F(9-8') FLOOR: 4

	Length:	L = 5.27 m Lu = 4.87 m	a = 0.00 m c = 0.40 m	Section:	b = 50.0 cm h = 70.0 cm	Sec: Mat:	S50X70 RConcrete2			
X, m:	0.00	0.49	0.97	1.46	1.95	2.44	2.92	3.41	3.90	4.38	4.87
Mu(-), ton-m:	-50.59	-38.35	-26.89	-16.23	-13.75	-13.75	-13.75	-23.34	-37.68	-52.82	-68.73
Mu(+), ton-m:	54.93	46.12	36.52	26.13	14.95	13.75	13.75	18.52	25.23	31.15	36.30
As(-), cm2:	22.28	16.61	11.48	10.71	10.71	10.71	10.71	10.71	16.31	23.33	31.07
As(+), cm2:	24.34	20.19	15.78	11.14	10.71	10.71	10.71	10.71	10.75	13.37	15.68
vu, Kg/cm2:	9.40	9.40	9.15	8.84	9.19	9.55	9.90	10.26	10.62	10.86	10.86
Tu, ton-m:	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-F 11 #3@ 15 5 #3@ 30 11 #3@ 15 8'-F

BEAM: F(8'-8) FLOOR: 4

	Length:	L = 2.80 m Lu = 2.40 m	a = 0.00 m c = 0.40 m	Section:	b = 50.0 cm h = 70.0 cm	Sec: Mat:	S50X70 RConcrete2			
X, m:	0.00	0.24	0.48	0.72	0.96	1.20	1.44	1.68	1.92	2.16	2.40
Mu(-), ton-m:	-30.63	-24.59	-18.59	-12.64	-6.74	-6.38	-6.38	-12.40	-18.85	-25.35	-31.90
Mu(+), ton-m:	31.36	25.25	19.09	12.88	6.63	6.38	6.38	10.70	16.40	22.06	27.67
As(-), cm2:	13.14	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.80	13.70
As(+), cm2:	13.46	10.76	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.82
vu, Kg/cm2:	9.26	9.26	9.26	9.28	9.32	9.36	9.40	9.44	9.45	9.45	9.45
Tu, ton-m:	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F 16 #3@ 15 8-F

BEAM: F(8-7) FLOOR: 4

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 4.21 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.42	0.84	1.26	1.68	2.11	2.53	2.95	3.37	3.79	4.21
Mu(-), ton-m:	-29.92	-24.24	-19.15	-14.66	-10.77	-7.48	-4.79	-2.69	-1.20	-0.30	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.82	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	3.77	3.77	3.55	3.11	2.67	2.22	1.78	1.33	0.89	0.44	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-F 14 #3@ 30 7-F

BEAM: F1(10-9') FLOOR: 4

Length: L = 1.41 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 1.16 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.12	0.23	0.35	0.46	0.58	0.70	0.81	0.93	1.04	1.16
Mu(-), ton-m:	0.00	-0.02	-0.07	-0.14	-0.24	-0.37	-0.54	-0.73	-0.96	-1.21	-1.49
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	0.00	0.16	0.32	0.48	0.64	0.80	0.72	0.72	0.72	0.72	0.72
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-F1 5 #3@ 30 9'-F1

BEAM: F1(9'-9) FLOOR: 4

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.77	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-13.47	-10.67	-7.89	-5.14	-2.69	-2.69	-2.69	-4.72	-7.08	-9.47	-11.88
Mu(+), ton-m:	11.05	8.87	6.67	4.45	2.69	2.69	2.95	5.59	8.21	10.80	13.36
As(-), cm2:	5.75	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.70
vu, Kg/cm2:	7.80	7.80	7.80	7.78	7.73	7.69	7.64	7.60	7.57	7.57	7.57
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F1 17 #3@ 15 9-F1

BEAM: F1(9-8') FLOOR: 4

Length: L = 5.27 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 5.02 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.50	1.00	1.51	2.01	2.51	3.01	3.51	4.02	4.52	5.02
Mu(-), ton-m:	-26.99	-20.08	-13.73	-7.93	-7.18	-7.18	-7.18	-11.48	-19.07	-27.22	-35.88
Mu(+), ton-m:	26.21	22.49	18.21	13.37	7.99	7.18	7.18	9.75	12.79	15.28	17.25
As(-), cm2:	11.94	8.72	5.86	5.36	5.36	5.36	5.36	5.36	8.26	12.05	16.41
As(+), cm2:	11.57	9.83	7.87	5.71	5.36	5.36	5.36	5.36	5.45	6.55	7.43
vu, Kg/cm2:	9.73	9.73	9.37	8.88	8.80	9.29	9.78	10.28	10.77	11.13	11.13
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-F1 11 #3@ 15 5 #3@ 30 11 #3@ 15 8'-F1

BEAM: F1(8'-8) FLOOR: 4

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.76	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-11.43	-9.15	-6.90	-4.68	-2.89	-2.89	-2.89	-5.60	-8.52	-11.47	-14.44
Mu(+), ton-m:	14.07	11.34	8.59	5.80	2.99	2.89	2.89	3.94	6.02	8.09	10.12
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	6.18
As(+), cm2:	6.02	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	8.27	8.27	8.27	8.29	8.34	8.38	8.43	8.47	8.50	8.50	8.50
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F1 17 #3@ 15 8-F1

BEAM: F1(8-7) FLOOR: 4

Length: L = 4.21 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 4.21 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.42	0.84	1.26	1.68	2.11	2.53	2.95	3.37	3.79	4.21
Mu(-), ton-m:	-19.52	-15.81	-12.49	-9.56	-7.03	-4.88	-3.12	-1.76	-0.78	-0.20	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	8.46	6.79	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	4.91	4.91	4.64	4.06	3.48	2.90	2.32	1.74	1.16	0.58	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-F1 14 #3@ 30 7-F1

BEAM: F2(10-9') FLOOR: 4

Length: L = 1.41 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 1.16 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.12	0.23	0.35	0.46	0.58	0.70	0.81	0.93	1.04	1.16
Mu(-), ton-m:	0.00	-0.02	-0.07	-0.15	-0.26	-0.40	-0.57	-0.78	-1.02	-1.28	-1.58
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	0.00	0.17	0.34	0.51	0.68	0.85	0.76	0.76	0.76	0.76	0.76
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-F2 5 #3@ 30 9'-F2

BEAM: F2(9'-9) FLOOR: 4

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.77	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-11.65	-9.20	-6.79	-4.40	-2.33	-2.33	-2.33	-4.23	-6.32	-8.43	-10.58
Mu(+), ton-m:	9.65	7.75	5.82	3.86	2.33	2.33	2.61	4.89	7.15	9.38	11.58
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	6.74	6.74	6.74	6.72	6.67	6.62	6.58	6.53	6.51	6.51	6.51
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F2 17 #3@ 15 9-F2

BEAM: F2(9-8') FLOOR: 4

Length: L = 5.27 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 5.02 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.50	1.00	1.51	2.01	2.51	3.01	3.51	4.02	4.52	5.02
Mu(-), ton-m:	-27.24	-20.19	-13.73	-7.85	-7.12	-7.12	-7.12	-11.18	-18.74	-26.89	-35.59
Mu(+), ton-m:	25.35	21.89	17.84	13.21	8.00	7.12	7.12	9.78	12.72	15.07	16.87
As(-), cm2:	12.06	8.77	5.86	5.36	5.36	5.36	5.36	5.36	8.11	11.90	16.25
As(+), cm2:	11.16	9.55	7.70	5.64	5.36	5.36	5.36	5.36	5.42	6.46	7.27
vu, Kg/cm2:	9.74	9.74	9.36	8.83	8.55	9.07	9.60	10.12	10.65	11.03	11.03
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-F2 11 #3@ 15 5 #3@ 30 11 #3@ 15 8'-F2

BEAM: F2(8'-8) FLOOR: 4

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.76	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-10.04	-8.05	-6.08	-4.15	-2.51	-2.51	-2.51	-4.84	-7.39	-9.97	-12.57
Mu(+), ton-m:	12.24	9.88	7.49	5.08	2.64	2.51	2.51	3.33	5.13	6.91	8.66
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	7.18	7.18	7.18	7.20	7.25	7.30	7.34	7.39	7.41	7.41	7.41
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F2 17 #3@ 15 8-F2

BEAM: F2(8-7) FLOOR: 4

Length: L = 4.21 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 4.21 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.42	0.84	1.26	1.68	2.11	2.53	2.95	3.37	3.79	4.21
Mu(-), ton-m:	-20.73	-16.79	-13.27	-10.16	-7.46	-5.18	-3.32	-1.87	-0.83	-0.21	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	9.02	7.23	5.66	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	5.22	5.22	4.92	4.31	3.69	3.08	2.46	1.85	1.23	0.62	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-F2 14 #3@ 30 7-F2

BEAM: F3(10-9') FLOOR: 4

Length: L = 1.41 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 1.16 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.12	0.23	0.35	0.46	0.58	0.70	0.81	0.93	1.04	1.16
Mu(-), ton-m:	0.00	-0.02	-0.07	-0.15	-0.26	-0.41	-0.58	-0.79	-1.04	-1.31	-1.62
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	0.00	0.17	0.35	0.52	0.69	0.86	0.78	0.78	0.78	0.78	0.78
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-F3 5 #3@ 30 9'-F3

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:56 a.m. 05/08/2010

BEAM: F3(9'-9) FLOOR: 4

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.77	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-12.39	-9.81	-7.25	-4.71	-2.48	-2.48	-2.48	-4.50	-6.75	-9.03	-11.33
Mu(+), ton-m:	10.50	8.43	6.35	4.23	2.48	2.48	2.72	5.15	7.55	9.92	12.27
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	7.11	7.11	7.11	7.09	7.04	7.00	6.95	6.91	6.88	6.88	6.88
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F3 17 #3@ 15 9-F3

BEAM: F3(9-8') FLOOR: 4

Length: L = 5.27 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 5.02 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.50	1.00	1.51	2.01	2.51	3.01	3.51	4.02	4.52	5.02
Mu(-), ton-m:	-25.29	-18.60	-12.50	-7.00	-6.57	-6.57	-6.57	-10.04	-17.06	-24.68	-32.86
Mu(+), ton-m:	22.36	19.53	16.10	12.07	7.44	6.57	6.57	9.01	11.51	13.42	14.77
As(-), cm2:	11.14	8.05	5.36	5.36	5.36	5.36	5.36	5.36	7.35	10.85	14.79
As(+), cm2:	9.77	8.47	6.92	5.36	5.36	5.36	5.36	5.36	5.36	5.73	6.33
vu, Kg/cm2:	9.07	9.07	8.68	8.15	7.68	8.20	8.74	9.27	9.81	10.19	10.19
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-F3 11 #3@ 15 5 #3@ 30 11 #3@ 15 8'-F3

BEAM: F3(8'-8) FLOOR: 4

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.76	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-9.83	-7.87	-5.94	-4.04	-2.80	-2.80	-2.80	-5.44	-8.26	-11.11	-13.99
Mu(+), ton-m:	13.57	10.94	8.28	5.59	2.87	2.80	2.80	3.30	5.06	6.80	8.52
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.98
As(+), cm2:	5.80	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	8.22	8.22	8.22	8.24	8.28	8.33	8.37	8.42	8.44	8.44	8.44
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F3 17 #3@ 15 8-F3

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:56 a.m. 05/08/2010

BEAM: F3(8-7) FLOOR: 4

Length: L = 4.21 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 4.21 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.42	0.84	1.26	1.68	2.11	2.53	2.95	3.37	3.79	4.21
Mu(-), ton-m:	-21.14	-17.12	-13.53	-10.36	-7.61	-5.28	-3.38	-1.90	-0.85	-0.21	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	9.20	7.38	5.78	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	5.32	5.32	5.02	4.39	3.77	3.14	2.51	1.88	1.26	0.63	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-F3 14 #3@ 30 7-F3

BEAM: G(10-9') FLOOR: 4

Length: L = 1.41 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 1.01 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.10	0.20	0.30	0.40	0.50	0.61	0.71	0.81	0.91	1.01
Mu(-), ton-m:	0.00	-0.03	-0.08	-0.17	-0.29	-0.46	-0.65	-0.87	-1.15	-1.45	-1.80
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.11	0.22	0.33	0.44	0.55	0.66	0.40	0.40	0.40	0.40
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-G 4 #3@ 30 9'-G

BEAM: G(9'-9) FLOOR: 4

Length: L = 2.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.40 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.20	1.44	1.68	1.92	2.16	2.40
Mu(-), ton-m:	-28.34	-22.48	-16.66	-10.89	-5.67	-5.67	-5.67	-10.07	-15.11	-20.20	-25.33
Mu(+), ton-m:	23.81	19.11	14.36	9.57	5.67	5.67	6.15	11.73	17.26	22.74	28.16
As(-), cm2:	12.12	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.79
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.04
vu, Kg/cm2:	8.66	8.66	8.66	8.65	8.61	8.57	8.53	8.49	8.47	8.47	8.47
Tu, ton-m:	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-G 16 #3@ 15 9-G

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:56 a.m. 05/08/2010

BEAM: G(9-8') FLOOR: 4

Length: L = 5.27 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 4.87 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.49	0.97	1.46	1.95	2.44	2.92	3.41	3.90	4.38	4.87
Mu(-), ton-m:	-45.23	-33.98	-23.55	-13.94	-11.85	-11.85	-11.85	-19.44	-31.89	-45.16	-59.24
Mu(+), ton-m:	44.85	38.11	30.57	22.20	13.02	11.85	11.85	16.34	21.87	26.57	30.48
As(-), cm2:	19.77	14.64	10.71	10.71	10.71	10.71	10.71	10.71	13.70	19.74	26.41
As(+), cm2:	19.60	16.51	13.11	10.71	10.71	10.71	10.71	10.71	10.71	11.34	13.07
vu, Kg/cm2:	8.25	8.25	8.00	7.63	7.58	7.95	8.31	8.68	9.05	9.30	9.30
Tu, ton-m:	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-G 11 #3@ 15 5 #3@ 30 11 #3@ 15 8'-G

BEAM: G(8'-8) FLOOR: 4

Length: L = 2.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.40 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.20	1.44	1.68	1.92	2.16	2.40
Mu(-), ton-m:	-24.71	-19.84	-15.01	-10.23	-5.90	-5.90	-5.90	-11.46	-17.42	-23.42	-29.48
Mu(+), ton-m:	28.83	23.21	17.55	11.84	6.08	5.90	5.90	8.42	12.95	17.44	21.87
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.62
As(+), cm2:	12.34	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	8.88	8.88	8.88	8.89	8.93	8.97	9.01	9.05	9.07	9.07	9.07
Tu, ton-m:	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-G 16 #3@ 15 8-G

BEAM: G(8-7) FLOOR: 4

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 4.21 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.42	0.84	1.26	1.68	2.11	2.53	2.95	3.37	3.79	4.21
Mu(-), ton-m:	-30.93	-25.06	-19.80	-15.16	-11.14	-7.73	-4.95	-2.78	-1.24	-0.31	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.27	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	3.89	3.89	3.67	3.21	2.76	2.30	1.84	1.38	0.92	0.46	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-G 14 #3@ 30 7-G

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:56 a.m. 05/08/2010

BEAM: G'(10-9) FLOOR: 4

Length: L = 4.21 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.32	-1.23	-2.73	-4.82	-7.47	-10.62	-14.32	-18.52	-23.25	-28.51
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.95	10.08	12.51
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.78	1.57	2.35	3.09	3.79	4.49	5.19	5.88	6.15	6.15
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-G' 14 #3@ 30 9-G'

BEAM: G'(9-8) FLOOR: 4

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-27.19	-17.80	-10.37	-5.22	-2.11	-1.28	-2.70	-6.29	-11.89	-19.43	-28.88
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	11.89	7.62	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.35	12.68
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.02	5.79	4.29	2.79	1.30	0.23	1.73	3.16	4.50	5.83	6.04
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-G' 26 #3@ 30 8-G'

BEAM: G'(8-7) FLOOR: 4

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-29.88	-24.26	-19.20	-14.73	-10.86	-7.57	-4.87	-2.77	-1.26	-0.33	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.14	10.54	8.25	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.56	6.56	6.26	5.48	4.70	3.91	3.13	2.35	1.57	0.78	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-G' 14 #3@ 30 7-G'

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:56 a.m. 05/08/2010

BEAM: H(10-9) FLOOR: 4

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 1.80 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.21	1.45	1.69	1.93	2.17	2.41
Mu(-), ton-m:	0.00	-0.21	-0.52	-1.15	-1.99	-3.03	-4.39	-5.85	-7.69	-9.69	-12.08
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.31	0.62	0.93	1.24	1.55	1.85	2.13	2.23	2.23	2.23
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-H 8 #3@ 30 9-H

BEAM: H(9-8) FLOOR: 4

Length: L = 8.07 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 8.07 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-45.72	-29.14	-14.97	-10.43	-10.43	-10.43	-10.43	-10.43	-19.49	-34.62	-52.16
Mu(+), ton-m:	15.24	14.92	18.08	18.35	16.12	12.70	14.48	15.25	13.53	10.43	17.39
As(-), cm2:	20.00	12.47	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.93	23.02
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.18	5.96	5.00	4.22	3.44	3.13	3.91	4.65	5.40	6.33	6.52
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-H 11 #3@ 15 15 #3@ 30 11 #3@ 15 8-H

BEAM: H(8-7) FLOOR: 4

Length: L = 4.21 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.31	-9.80	-7.75	-5.86	-4.40	-3.05	-2.01	-1.18	-0.55	-0.22	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.27	2.27	2.27	2.17	1.86	1.55	1.24	0.93	0.62	0.31	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-H 8 #3@ 30 7-H

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:56 a.m. 05/08/2010

BEAM: H1(10-9) FLOOR: 4

Length: L = 4.21 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.31	-1.21	-2.70	-4.76	-7.38	-10.50	-14.14	-18.30	-22.98	-28.17
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.85	9.95	12.35
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.77	1.55	2.32	3.06	3.75	4.43	5.12	5.81	6.08	6.08
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-H1 14 #3@ 30 9-H1

BEAM: H1(9-8) FLOOR: 4

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-26.82	-17.53	-10.18	-5.09	-2.00	-1.17	-2.58	-6.13	-11.68	-19.13	-28.47
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	11.72	7.51	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.22	12.48
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	5.95	5.72	4.25	2.77	1.29	0.23	1.71	3.13	4.45	5.77	5.97
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-H1 26 #3@ 30 8-H1

BEAM: H1(8-7) FLOOR: 4

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-29.52	-23.96	-18.97	-14.55	-10.72	-7.48	-4.82	-2.74	-1.24	-0.33	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.97	10.40	8.15	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.48	6.48	6.19	5.41	4.64	3.87	3.09	2.32	1.55	0.77	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-H1 14 #3@ 30 7-H1

BEAM: I(10-9) FLOOR: 4

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 1.80 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.21	1.45	1.69	1.93	2.17	2.41
Mu(-), ton-m:	0.00	-0.22	-0.54	-1.19	-2.06	-3.15	-4.56	-6.07	-7.99	-10.07	-12.55
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.32	0.64	0.96	1.29	1.61	1.92	2.21	2.31	2.31	2.31
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-I 8 #3@ 30 9-I

BEAM: I(9-8) FLOOR: 4

Length: L = 8.07 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 8.07 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-49.35	-31.76	-16.68	-10.65	-10.65	-10.65	-10.65	-10.65	-19.70	-35.24	-53.26
Mu(+), ton-m:	16.45	14.77	18.23	18.69	16.56	13.18	15.34	16.50	15.08	11.16	17.75
As(-), cm2:	21.70	13.64	10.71	10.71	10.71	10.71	10.71	10.71	10.71	15.20	23.55
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.56	6.33	5.26	4.45	3.64	3.17	3.97	4.74	5.54	6.51	6.71
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-I 11 #3@ 15 15 #3@ 30 11 #3@ 15 8-I

BEAM: I(8-7) FLOOR: 4

Length: L = 4.21 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.45	-9.92	-7.84	-5.93	-4.45	-3.09	-2.04	-1.19	-0.55	-0.22	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.30	2.30	2.30	2.19	1.88	1.57	1.25	0.94	0.63	0.31	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-I 8 #3@ 30 7-I

BEAM: I1(10-9) FLOOR: 4

Length: L = 4.21 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.33	-1.27	-2.83	-4.99	-7.74	-11.01	-14.83	-19.19	-24.09	-29.54
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.24	10.46	12.98
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.81	1.62	2.43	3.20	3.93	4.65	5.37	6.09	6.37	6.37
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-I1 14 #3@ 30 9-I1

BEAM: I1(9-8) FLOOR: 4

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-28.25	-18.42	-10.61	-5.18	-1.85	-0.88	-2.27	-5.89	-11.61	-19.33	-29.02
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.38	7.90	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.31	12.74
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.31	6.07	4.52	2.97	1.42	0.19	1.73	3.22	4.60	5.98	6.19
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-I1 26 #3@ 30 8-I1

BEAM: I1(8-7) FLOOR: 4

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-30.07	-24.41	-19.32	-14.83	-10.92	-7.62	-4.91	-2.79	-1.26	-0.33	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.23	10.61	8.30	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.60	6.60	6.30	5.51	4.73	3.94	3.15	2.36	1.58	0.79	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-I1 14 #3@ 30 7-I1

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:56 a.m. 05/08/2010

BEAM: J(10-9) FLOOR: 4

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 1.80 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.21	1.45	1.69	1.93	2.17	2.41
Mu(-), ton-m:	0.00	-0.21	-0.53	-1.17	-2.02	-3.08	-4.46	-5.94	-7.82	-9.85	-12.28
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.31	0.63	0.94	1.26	1.57	1.88	2.17	2.26	2.26	2.26
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-J 8 #3@ 30 9-J

BEAM: J(9-8) FLOOR: 4

Length: L = 8.07 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 8.07 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-50.30	-32.68	-17.52	-10.46	-10.46	-10.46	-10.46	-10.46	-19.39	-34.63	-52.32
Mu(+), ton-m:	16.77	14.66	18.00	18.41	16.28	12.99	15.45	17.00	16.01	12.58	17.44
As(-), cm2:	22.14	14.05	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.93	23.10
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.57	6.36	5.30	4.44	3.65	3.08	3.87	4.62	5.44	6.38	6.58
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-J 11 #3@ 15 15 #3@ 30 11 #3@ 15 8-J

BEAM: J(8-7) FLOOR: 4

Length: L = 4.21 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.52	-9.97	-7.88	-5.96	-4.48	-3.10	-2.05	-1.20	-0.56	-0.23	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.31	2.31	2.31	2.20	1.89	1.57	1.26	0.94	0.63	0.31	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-J 8 #3@ 30 7-J

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:56 a.m. 05/08/2010

BEAM: J1(10-9) FLOOR: 4

Length: L = 4.21 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.33	-1.27	-2.83	-4.99	-7.74	-11.01	-14.83	-19.19	-24.09	-29.54
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.24	10.46	12.98
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.81	1.62	2.43	3.20	3.93	4.65	5.37	6.09	6.37	6.37
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-J1 14 #3@ 30 9-J1

BEAM: J1(9-8) FLOOR: 4

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-28.27	-18.53	-10.80	-5.45	-2.20	-1.32	-2.78	-6.49	-12.29	-20.10	-29.87
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.39	7.95	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.65	13.14
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.25	6.01	4.46	2.91	1.36	0.24	1.79	3.27	4.66	6.04	6.25
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-J1 26 #3@ 30 8-J1

BEAM: J1(8-7) FLOOR: 4

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-30.96	-25.13	-19.89	-15.26	-11.25	-7.84	-5.05	-2.87	-1.30	-0.34	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.65	10.94	8.56	6.50	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.80	6.80	6.49	5.68	4.87	4.05	3.24	2.43	1.62	0.81	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-J1 14 #3@ 30 7-J1

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:56 a.m. 05/08/2010

BEAM: K(10-9) FLOOR: 4

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 1.80 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.21	1.45	1.69	1.93	2.17	2.41
Mu(-), ton-m:	0.00	-0.22	-0.54	-1.19	-2.06	-3.15	-4.56	-6.07	-7.99	-10.07	-12.55
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.32	0.64	0.96	1.29	1.61	1.92	2.21	2.31	2.31	2.31
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-K 8 #3@ 30 9-K

BEAM: K(9-8) FLOOR: 4

Length: L = 8.07 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 8.07 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-52.25	-34.08	-18.42	-10.48	-10.48	-10.48	-10.48	-10.48	-19.17	-34.52	-52.38
Mu(+), ton-m:	17.42	14.08	17.72	18.35	16.40	13.25	15.94	17.69	16.84	13.51	17.46
As(-), cm2:	23.07	14.68	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.88	23.12
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.78	6.56	5.48	4.56	3.76	3.08	3.87	4.63	5.47	6.44	6.64
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-K 11 #3@ 15 15 #3@ 30 11 #3@ 15 8-K

BEAM: K(8-7) FLOOR: 4

Length: L = 4.21 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.79	-10.19	-8.05	-6.09	-4.57	-3.17	-2.09	-1.22	-0.57	-0.23	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.36	2.36	2.36	2.25	1.93	1.61	1.29	0.96	0.64	0.32	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-K 8 #3@ 30 7-K

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:56 a.m. 05/08/2010

BEAM: K1(10-9) FLOOR: 4

Length: L = 4.21 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.33	-1.27	-2.83	-4.99	-7.74	-11.01	-14.83	-19.19	-24.09	-29.54
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.24	10.46	12.98
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.81	1.62	2.43	3.20	3.93	4.65	5.37	6.09	6.37	6.37
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-K1 14 #3@ 30 9-K1

BEAM: K1(9-8) FLOOR: 4

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-28.34	-18.58	-10.84	-5.48	-2.22	-1.33	-2.78	-6.47	-12.26	-20.05	-29.82
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.42	7.97	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.63	13.11
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.26	6.02	4.47	2.92	1.37	0.23	1.78	3.26	4.65	6.03	6.24
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-K1 26 #3@ 30 8-K1

BEAM: K1(8-7) FLOOR: 4

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-30.96	-25.13	-19.89	-15.26	-11.25	-7.84	-5.05	-2.87	-1.30	-0.34	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.65	10.94	8.56	6.50	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.80	6.80	6.49	5.68	4.87	4.05	3.24	2.43	1.62	0.81	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-K1 14 #3@ 30 7-K1

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:56 a.m. 05/08/2010

BEAM: L(10-9) FLOOR: 4

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 1.80 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.21	1.45	1.69	1.93	2.17	2.41
Mu(-), ton-m:	0.00	-0.22	-0.54	-1.19	-2.06	-3.14	-4.55	-6.06	-7.98	-10.05	-12.54
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.32	0.64	0.96	1.29	1.61	1.92	2.21	2.31	2.31	2.31
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-L 8 #3@ 30 9-L

BEAM: L(9-8) FLOOR: 4

Length: L = 8.07 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 6.27 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.43	3.05	3.68	4.31	4.93	5.56	6.19	6.81	7.44	8.07
Mu(-), ton-m:	-61.77	-44.18	-29.08	-15.63	-12.35	-12.35	-12.35	-12.61	-24.47	-37.71	-52.33
Mu(+), ton-m:	24.85	25.08	22.83	18.92	14.07	12.35	15.81	22.25	27.75	31.86	34.59
As(-), cm2:	27.64	19.29	12.45	10.71	10.71	10.71	10.71	10.71	10.71	16.32	23.10
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.86	13.69	14.91
vu, Kg/cm2:	8.00	8.00	7.19	6.37	5.90	5.49	5.67	6.23	6.80	7.35	7.35
Tu, ton-m:	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-L 11 #3@ 15 9 #3@ 30 11 #3@ 15 8-L

BEAM: L(8-7) FLOOR: 4

Length: L = 4.21 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.79	-10.19	-8.05	-6.09	-4.57	-3.17	-2.09	-1.22	-0.57	-0.23	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.36	2.36	2.36	2.25	1.93	1.61	1.29	0.96	0.64	0.32	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-L 8 #3@ 30 7-L

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:56 a.m. 05/08/2010

BEAM: L1(10-9) FLOOR: 4

Length: L = 4.21 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.19	-0.72	-1.59	-2.82	-4.37	-6.22	-8.39	-10.87	-13.65	-16.75
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.16
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.46	0.91	1.37	1.81	2.22	2.64	3.05	3.46	3.62	3.62
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-L1 14 #3@ 30 9-L1

BEAM: L1(9-8) FLOOR: 4

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-16.57	-11.04	-6.65	-3.59	-1.72	-1.19	-2.00	-4.07	-7.33	-11.74	-17.28
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	7.08	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.40
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	3.55	3.42	2.54	1.67	0.79	0.12	0.99	1.84	2.63	3.42	3.54
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-L1 26 #3@ 30 8-L1

BEAM: L1(8-7) FLOOR: 4

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-17.46	-14.18	-11.22	-8.61	-6.34	-4.42	-2.85	-1.62	-0.73	-0.19	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	7.47	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	3.83	3.83	3.66	3.20	2.74	2.29	1.83	1.37	0.91	0.46	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-L1 14 #3@ 30 7-L1

BEAM: B'(10-9) FLOOR: 5

Length: L = 4.21 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.19	-0.72	-1.61	-2.85	-4.42	-6.29	-8.48	-10.98	-13.79	-16.92
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.24
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.46	0.92	1.39	1.83	2.25	2.66	3.08	3.50	3.66	3.66
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-B' 14 #3@ 30 9-B'

BEAM: B'(9-8) FLOOR: 5

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-16.71	-11.13	-6.70	-3.62	-1.74	-1.22	-2.04	-4.15	-7.47	-11.94	-17.55
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	7.14	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.52
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	3.58	3.44	2.56	1.68	0.79	0.13	1.01	1.87	2.66	3.46	3.59
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-B' 26 #3@ 30 8-B'

BEAM: B'(8-7) FLOOR: 5

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-17.64	-14.32	-11.34	-8.70	-6.41	-4.47	-2.88	-1.64	-0.74	-0.20	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	7.55	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	3.87	3.87	3.70	3.23	2.77	2.31	1.85	1.39	0.92	0.46	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-B' 14 #3@ 30 7-B'

BEAM: C(10-9) FLOOR: 5

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 1.80 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.21	1.45	1.69	1.93	2.17	2.41
Mu(-), ton-m:	0.00	-0.22	-0.55	-1.20	-2.07	-3.16	-4.58	-6.10	-8.03	-10.11	-12.60
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.32	0.65	0.97	1.29	1.62	1.93	2.22	2.32	2.32	2.32
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-C 8 #3@ 30 9-C

BEAM: C(9-8) FLOOR: 5

Length: L = 8.07 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 6.27 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.43	3.05	3.68	4.31	4.93	5.56	6.19	6.81	7.44	8.07
Mu(-), ton-m:	-62.11	-44.46	-29.30	-15.81	-13.09	-13.09	-13.09	-17.76	-32.26	-48.15	-65.43
Mu(+), ton-m:	37.97	35.61	30.77	24.27	16.88	13.09	15.80	22.16	27.66	31.77	34.49
As(-), cm2:	27.81	19.42	12.55	10.71	10.71	10.71	10.71	10.71	13.86	21.13	29.43
As(+), cm2:	16.44	15.37	13.20	10.71	10.71	10.71	10.71	10.71	11.82	13.65	14.86
vu, Kg/cm2:	8.03	8.03	7.21	6.37	5.82	6.06	6.55	7.12	7.68	8.33	8.33
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-C 11 #3@ 15 9 #3@ 30 11 #3@ 15 8-C

BEAM: C(8-7) FLOOR: 5

Length: L = 4.21 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.86	-10.24	-8.09	-6.12	-4.60	-3.19	-2.10	-1.23	-0.57	-0.23	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.38	2.38	2.38	2.26	1.94	1.62	1.29	0.97	0.65	0.32	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-C 8 #3@ 30 7-C

BEAM: C1(10-9) FLOOR: 5

Length: L = 4.21 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.33	-1.27	-2.83	-4.99	-7.74	-11.01	-14.83	-19.19	-24.09	-29.54
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.24	10.46	12.98
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.81	1.62	2.43	3.20	3.93	4.65	5.37	6.09	6.37	6.37
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-C1 14 #3@ 30 9-C1

BEAM: C1(9-8) FLOOR: 5

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-28.21	-18.48	-10.77	-5.43	-2.20	-1.33	-2.82	-6.54	-12.37	-20.19	-29.98
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.36	7.93	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.69	13.19
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.24	6.00	4.45	2.90	1.35	0.25	1.80	3.29	4.67	6.05	6.26
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-C1 26 #3@ 30 8-C1

BEAM: C1(8-7) FLOOR: 5

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-30.96	-25.13	-19.89	-15.26	-11.25	-7.84	-5.05	-2.87	-1.30	-0.34	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.65	10.94	8.56	6.50	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.80	6.80	6.49	5.68	4.87	4.05	3.24	2.43	1.62	0.81	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-C1 14 #3@ 30 7-C1

BEAM: D(10-9) FLOOR: 5

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 1.80 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.21	1.45	1.69	1.93	2.17	2.41
Mu(-), ton-m:	0.00	-0.22	-0.54	-1.19	-2.06	-3.15	-4.56	-6.07	-7.99	-10.07	-12.55
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.32	0.64	0.96	1.29	1.61	1.92	2.21	2.31	2.31	2.31
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-D 8 #3@ 30 9-D

BEAM: D(9-8) FLOOR: 5

Length: L = 8.07 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 8.07 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-48.32	-30.94	-16.07	-11.79	-11.79	-11.79	-11.79	-11.79	-23.13	-39.79	-58.93
Mu(+), ton-m:	16.11	19.17	21.51	20.86	17.61	13.28	15.13	16.08	14.45	11.79	19.64
As(-), cm2:	21.22	13.28	10.71	10.71	10.71	10.71	10.71	10.71	10.71	17.27	26.26
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.48	6.25	5.29	4.49	3.68	3.59	4.39	5.16	5.97	6.94	7.14
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-D 11 #3@ 15 15 #3@ 30 11 #3@ 15 8-D

BEAM: D(8-7) FLOOR: 5

Length: L = 4.21 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.79	-10.19	-8.05	-6.09	-4.57	-3.17	-2.09	-1.22	-0.57	-0.23	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.36	2.36	2.36	2.25	1.93	1.61	1.29	0.96	0.64	0.32	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-D 8 #3@ 30 7-D

BEAM: D1(10-9) FLOOR: 5

Length: L = 4.21 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.33	-1.27	-2.83	-4.99	-7.74	-11.01	-14.83	-19.19	-24.09	-29.54
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.24	10.46	12.98
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.81	1.62	2.43	3.20	3.93	4.65	5.37	6.09	6.37	6.37
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-D1 14 #3@ 30 9-D1

BEAM: D1(9-8) FLOOR: 5

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-28.14	-18.42	-10.72	-5.40	-2.18	-1.32	-2.82	-6.55	-12.39	-20.22	-30.02
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.33	7.90	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.70	13.21
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.23	5.99	4.44	2.89	1.34	0.26	1.81	3.29	4.68	6.06	6.27
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-D1 26 #3@ 30 8-D1

BEAM: D1(8-7) FLOOR: 5

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-30.96	-25.13	-19.89	-15.26	-11.25	-7.84	-5.05	-2.87	-1.30	-0.34	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.65	10.94	8.56	6.50	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.80	6.80	6.49	5.68	4.87	4.05	3.24	2.43	1.62	0.81	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-D1 14 #3@ 30 7-D1

BEAM: E(10-9) FLOOR: 5

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 1.80 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.21	1.45	1.69	1.93	2.17	2.41
Mu(-), ton-m:	0.00	-0.22	-0.54	-1.19	-2.06	-3.15	-4.56	-6.07	-7.99	-10.07	-12.55
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.32	0.64	0.96	1.29	1.61	1.92	2.21	2.31	2.31	2.31
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-E 8 #3@ 30 9-E

BEAM: E(9-8) FLOOR: 5

Length: L = 8.07 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 8.07 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-46.76	-29.69	-15.13	-11.25	-11.25	-11.25	-11.25	-11.25	-21.51	-37.62	-56.23
Mu(+), ton-m:	15.59	17.04	19.92	19.80	17.08	13.16	14.82	15.46	13.52	11.25	18.74
As(-), cm2:	20.49	12.72	10.71	10.71	10.71	10.71	10.71	10.71	10.71	16.28	24.96
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.36	6.13	5.19	4.38	3.57	3.42	4.22	4.99	5.76	6.73	6.93
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-E 11 #3@ 15 15 #3@ 30 11 #3@ 15 8-E

BEAM: E(8-7) FLOOR: 5

Length: L = 4.21 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.79	-10.19	-8.05	-6.09	-4.57	-3.17	-2.09	-1.22	-0.57	-0.23	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.36	2.36	2.36	2.25	1.93	1.61	1.29	0.96	0.64	0.32	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-E 8 #3@ 30 7-E

BEAM: E'(10-9) FLOOR: 5

Length:	L = 4.21 m		a = 0.00 m	Section:	b = 30.0 cm		Sec:	S30X70		
	Lu = 3.96 m		c = 0.25 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.33	-1.27	-2.83	-4.99	-7.74	-11.01	-14.83	-19.19	-24.09	-29.54
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.24	10.46	12.98
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.81	1.62	2.43	3.20	3.93	4.65	5.37	6.09	6.37	6.37
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-E' 14 #3@ 30 9-E'

BEAM: E'(9-8) FLOOR: 5

Length:	L = 8.07 m		a = 0.25 m	Section:	b = 30.0 cm		Sec:	S30X70		
	Lu = 7.57 m		c = 0.25 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-28.21	-18.49	-10.79	-5.46	-2.25	-1.39	-2.87	-6.59	-12.41	-20.22	-30.01
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.36	7.93	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.71	13.21
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.23	5.99	4.44	2.89	1.34	0.24	1.79	3.28	4.66	6.04	6.26
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-E' 26 #3@ 30 8-E'

BEAM: E'(8-7) FLOOR: 5

Length:	L = 4.21 m		a = 0.25 m	Section:	b = 30.0 cm		Sec:	S30X70		
	Lu = 3.96 m		c = 0.00 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-30.96	-25.13	-19.89	-15.26	-11.25	-7.84	-5.05	-2.87	-1.30	-0.34	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.65	10.94	8.56	6.50	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.80	6.80	6.49	5.68	4.87	4.05	3.24	2.43	1.62	0.81	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-E' 14 #3@ 30 7-E'

BEAM: F(10-9') FLOOR: 5

Length:	L = 1.41 m		a = 0.00 m	Section:	b = 50.0 cm		Sec:	S50X70		
	Lu = 1.01 m		c = 0.40 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.00	0.10	0.20	0.30	0.40	0.50	0.61	0.71	0.81	0.91	1.01
Mu(-), ton-m:	0.00	-0.03	-0.08	-0.16	-0.28	-0.44	-0.63	-0.84	-1.11	-1.41	-1.74
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.11	0.21	0.32	0.43	0.53	0.64	0.39	0.39	0.39	0.39
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-F 4 #3@ 30 9'-F

BEAM: F(9'-9) FLOOR: 5

Length:	L = 2.80 m		a = 0.00 m	Section:	b = 50.0 cm		Sec:	S50X70		
	Lu = 2.40 m		c = 0.40 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.00	0.24	0.48	0.72	0.96	1.20	1.44	1.68	1.92	2.16	2.40
Mu(-), ton-m:	-29.58	-23.47	-17.41	-11.39	-5.92	-5.92	-5.92	-9.79	-14.64	-19.52	-24.46
Mu(+), ton-m:	22.70	18.20	13.65	9.05	5.92	5.92	6.40	12.23	18.00	23.73	29.41
As(-), cm2:	12.67	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.59
vu, Kg/cm2:	9.24	9.24	9.24	9.23	9.19	9.15	9.11	9.07	9.05	9.05	9.05
Tu, ton-m:	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F 16 #3@ 15 9-F

BEAM: F(9-8') FLOOR: 5

Length:	L = 5.27 m		a = 0.00 m	Section:	b = 50.0 cm		Sec:	S50X70		
	Lu = 4.87 m		c = 0.40 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.00	0.49	0.97	1.46	1.95	2.44	2.92	3.41	3.90	4.38	4.87
Mu(-), ton-m:	-48.54	-36.73	-25.70	-15.46	-13.19	-13.19	-13.19	-22.19	-35.99	-50.58	-65.95
Mu(+), ton-m:	52.26	44.00	34.94	25.10	14.46	13.19	13.19	17.57	23.86	29.35	34.06
As(-), cm2:	21.32	15.88	10.95	10.71	10.71	10.71	10.71	10.71	15.54	22.28	29.69
As(+), cm2:	23.07	19.20	15.07	10.71	10.71	10.71	10.71	10.71	10.71	12.57	14.67
vu, Kg/cm2:	9.04	9.04	8.79	8.45	8.78	9.13	9.49	9.84	10.20	10.44	10.44
Tu, ton-m:	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-F 11 #3@ 15 5 #3@ 30 11 #3@ 15 8'-F

BEAM: F(8'-8) FLOOR: 5

Length: L = 2.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.40 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.20	1.44	1.68	1.92	2.16	2.40
Mu(-), ton-m:	-26.96	-21.67	-16.43	-11.23	-6.08	-6.01	-6.01	-11.70	-17.76	-23.87	-30.03
Mu(+), ton-m:	29.33	23.61	17.84	12.02	6.16	6.01	6.01	9.09	14.04	18.95	23.80
As(-), cm2:	11.51	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.87
As(+), cm2:	12.56	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	8.88	8.88	8.88	8.89	8.93	8.97	9.01	9.05	9.07	9.07	9.07
Tu, ton-m:	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F 16 #3@ 15 8-F

BEAM: F(8-7) FLOOR: 5

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 4.21 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.42	0.84	1.26	1.68	2.11	2.53	2.95	3.37	3.79	4.21
Mu(-), ton-m:	-29.92	-24.24	-19.15	-14.66	-10.77	-7.48	-4.79	-2.69	-1.20	-0.30	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.82	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	3.77	3.77	3.55	3.11	2.67	2.22	1.78	1.33	0.89	0.44	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-F 14 #3@ 30 7-F

BEAM: F1(10-9') FLOOR: 5

Length: L = 1.41 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 1.16 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.12	0.23	0.35	0.46	0.58	0.70	0.81	0.93	1.04	1.16
Mu(-), ton-m:	0.00	-0.02	-0.07	-0.14	-0.24	-0.37	-0.54	-0.73	-0.96	-1.21	-1.49
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	0.00	0.16	0.32	0.48	0.64	0.80	0.72	0.72	0.72	0.72	0.72
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-F1 5 #3@ 30 9'-F1

BEAM: F1(9'-9) FLOOR: 5

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.77	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-11.94	-9.44	-6.96	-4.52	-2.39	-2.39	-2.39	-4.22	-6.31	-8.42	-10.56
Mu(+), ton-m:	9.63	7.73	5.81	3.85	2.39	2.39	2.65	4.99	7.30	9.59	11.85
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	6.94	6.94	6.94	6.92	6.87	6.83	6.78	6.74	6.72	6.72	6.72
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F1 17 #3@ 15 9-F1

BEAM: F1(9-8') FLOOR: 5

Length: L = 5.27 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 5.02 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.50	1.00	1.51	2.01	2.51	3.01	3.51	4.02	4.52	5.02
Mu(-), ton-m:	-25.70	-19.06	-12.96	-7.43	-6.84	-6.84	-6.84	-10.80	-18.07	-25.88	-34.22
Mu(+), ton-m:	24.59	21.19	17.24	12.74	7.68	6.84	6.84	9.21	11.98	14.21	15.92
As(-), cm2:	11.33	8.25	5.53	5.36	5.36	5.36	5.36	5.36	7.80	11.42	15.49
As(+), cm2:	10.81	9.23	7.43	5.43	5.36	5.36	5.36	5.36	5.36	6.08	6.84
vu, Kg/cm2:	9.30	9.30	8.95	8.45	8.31	8.81	9.30	9.79	10.29	10.64	10.64
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-F1 11 #3@ 15 5 #3@ 30 11 #3@ 15 8'-F1

BEAM: F1(8'-8) FLOOR: 5

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.76	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-9.98	-8.00	-6.06	-4.14	-2.70	-2.70	-2.70	-5.24	-7.97	-10.73	-13.51
Mu(+), ton-m:	13.10	10.56	8.00	5.40	2.78	2.70	2.70	3.27	5.05	6.81	8.54
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.77
As(+), cm2:	5.59	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	7.86	7.86	7.86	7.88	7.92	7.97	8.01	8.06	8.08	8.08	8.08
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F1 17 #3@ 15 8-F1

BEAM: F1(8-7) FLOOR: 5

Length: L = 4.21 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 4.21 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.42	0.84	1.26	1.68	2.11	2.53	2.95	3.37	3.79	4.21
Mu(-), ton-m:	-19.52	-15.81	-12.49	-9.56	-7.03	-4.88	-3.12	-1.76	-0.78	-0.20	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	8.46	6.79	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	4.91	4.91	4.64	4.06	3.48	2.90	2.32	1.74	1.16	0.58	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-F1 14 #3@ 30 7-F1

BEAM: F2(10-9') FLOOR: 5

Length: L = 1.41 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 1.16 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.12	0.23	0.35	0.46	0.58	0.70	0.81	0.93	1.04	1.16
Mu(-), ton-m:	0.00	-0.02	-0.07	-0.15	-0.26	-0.40	-0.57	-0.78	-1.02	-1.28	-1.58
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	0.00	0.17	0.34	0.51	0.68	0.85	0.76	0.76	0.76	0.76	0.76
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-F2 5 #3@ 30 9'-F2

BEAM: F2(9'-9) FLOOR: 5

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.77	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-10.08	-7.95	-5.85	-3.77	-2.02	-2.02	-2.02	-3.74	-5.57	-7.43	-9.31
Mu(+), ton-m:	8.31	6.67	5.00	3.30	2.02	2.02	2.30	4.27	6.21	8.13	10.02
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	5.84	5.84	5.84	5.81	5.77	5.72	5.68	5.63	5.61	5.61	5.61
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F2 17 #3@ 15 9-F2

BEAM: F2(9-8') FLOOR: 5

Length: L = 5.27 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 5.02 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.50	1.00	1.51	2.01	2.51	3.01	3.51	4.02	4.52	5.02
Mu(-), ton-m:	-25.94	-19.16	-12.96	-7.35	-6.80	-6.80	-6.80	-10.52	-17.77	-25.60	-33.98
Mu(+), ton-m:	23.76	20.62	16.90	12.59	7.69	6.80	6.80	9.23	11.90	14.00	15.54
As(-), cm2:	11.45	8.30	5.52	5.36	5.36	5.36	5.36	5.36	7.67	11.28	15.36
As(+), cm2:	10.42	8.97	7.28	5.36	5.36	5.36	5.36	5.36	5.36	5.98	6.67
vu, Kg/cm2:	9.32	9.32	8.94	8.42	8.08	8.60	9.13	9.65	10.18	10.56	10.56
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-F2 11 #3@ 15 5 #3@ 30 11 #3@ 15 8'-F2

BEAM: F2(8'-8) FLOOR: 5

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.76	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-8.62	-6.93	-5.26	-3.62	-2.32	-2.32	-2.32	-4.46	-6.81	-9.18	-11.58
Mu(+), ton-m:	11.21	9.05	6.86	4.65	2.41	2.32	2.32	2.69	4.19	5.68	7.13
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	6.72	6.72	6.72	6.74	6.78	6.83	6.88	6.92	6.94	6.94	6.94
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F2 17 #3@ 15 8-F2

BEAM: F2(8-7) FLOOR: 5

Length: L = 4.21 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 4.21 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.42	0.84	1.26	1.68	2.11	2.53	2.95	3.37	3.79	4.21
Mu(-), ton-m:	-20.73	-16.79	-13.27	-10.16	-7.46	-5.18	-3.32	-1.87	-0.83	-0.21	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	9.02	7.23	5.66	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	5.22	5.22	4.92	4.31	3.69	3.08	2.46	1.85	1.23	0.62	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-F2 14 #3@ 30 7-F2

BEAM: F3(10-9') FLOOR: 5

Length: L = 1.41 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 1.16 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.12	0.23	0.35	0.46	0.58	0.70	0.81	0.93	1.04	1.16
Mu(-), ton-m:	0.00	-0.02	-0.07	-0.15	-0.26	-0.41	-0.58	-0.79	-1.04	-1.31	-1.62
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	0.00	0.17	0.35	0.52	0.69	0.86	0.78	0.78	0.78	0.78	0.78
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-F3 5 #3@ 30 9'-F3

BEAM: F3(9'-9) FLOOR: 5

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.77	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-10.87	-8.59	-6.34	-4.11	-2.17	-2.17	-2.17	-3.99	-5.97	-7.97	-10.00
Mu(+), ton-m:	9.09	7.30	5.49	3.64	2.17	2.17	2.41	4.53	6.62	8.69	10.73
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	6.25	6.25	6.25	6.23	6.18	6.13	6.09	6.04	6.02	6.02	6.02
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F3 17 #3@ 15 9-F3

BEAM: F3(9-8') FLOOR: 5

Length: L = 5.27 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 5.02 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.50	1.00	1.51	2.01	2.51	3.01	3.51	4.02	4.52	5.02
Mu(-), ton-m:	-24.16	-17.70	-11.83	-6.56	-6.28	-6.28	-6.28	-9.45	-16.18	-23.52	-31.41
Mu(+), ton-m:	20.97	18.42	15.27	11.52	7.18	6.28	6.28	8.52	10.80	12.48	13.60
As(-), cm2:	10.61	7.64	5.36	5.36	5.36	5.36	5.36	5.36	6.96	10.31	14.08
As(+), cm2:	9.13	7.96	6.55	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.81
vu, Kg/cm2:	8.70	8.70	8.31	7.78	7.30	7.78	8.32	8.85	9.39	9.78	9.78
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-F3 11 #3@ 15 5 #3@ 30 11 #3@ 15 8'-F3

BEAM: F3(8'-8) FLOOR: 5

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.76	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-8.40	-6.74	-5.10	-3.50	-2.62	-2.62	-2.62	-5.11	-7.75	-10.42	-13.11
Mu(+), ton-m:	12.64	10.18	7.70	5.20	2.66	2.62	2.62	2.65	4.13	5.57	6.99
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.59
As(+), cm2:	5.38	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	7.83	7.83	7.83	7.85	7.90	7.94	7.99	8.03	8.06	8.06	8.06
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F3 17 #3@ 15 8-F3

BEAM: F3(8-7) FLOOR: 5

Length: L = 4.21 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 4.21 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.42	0.84	1.26	1.68	2.11	2.53	2.95	3.37	3.79	4.21
Mu(-), ton-m:	-21.14	-17.12	-13.53	-10.36	-7.61	-5.28	-3.38	-1.90	-0.85	-0.21	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	9.20	7.38	5.78	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	5.32	5.32	5.02	4.39	3.77	3.14	2.51	1.88	1.26	0.63	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-F3 14 #3@ 30 7-F3

BEAM: G(10-9') FLOOR: 5

Length: L = 1.41 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 1.01 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.10	0.20	0.30	0.40	0.50	0.61	0.71	0.81	0.91	1.01
Mu(-), ton-m:	0.00	-0.03	-0.08	-0.17	-0.29	-0.46	-0.65	-0.87	-1.15	-1.45	-1.80
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.11	0.22	0.33	0.44	0.55	0.66	0.40	0.40	0.40	0.40
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-G 4 #3@ 30 9'-G

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:56 a.m. 05/08/2010

BEAM: G(9'-9) FLOOR: 5

Length: L = 2.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.40 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.20	1.44	1.68	1.92	2.16	2.40
Mu(-), ton-m:	-25.02	-19.83	-14.68	-9.58	-5.00	-5.00	-5.00	-8.85	-13.23	-17.66	-22.14
Mu(+), ton-m:	20.42	16.38	12.29	8.16	5.00	5.00	5.45	10.36	15.22	20.03	24.78
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.69	7.69	7.69	7.68	7.63	7.59	7.55	7.51	7.50	7.50	7.50
Tu, ton-m:	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-G 16 #3@ 15 9-G

BEAM: G(9-8') FLOOR: 5

Length: L = 5.27 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 4.87 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.49	0.97	1.46	1.95	2.44	2.92	3.41	3.90	4.38	4.87
Mu(-), ton-m:	-43.38	-32.52	-22.47	-13.25	-11.34	-11.34	-11.34	-18.40	-30.36	-43.14	-56.72
Mu(+), ton-m:	42.43	36.19	29.13	21.26	12.57	11.34	11.34	15.47	20.61	24.93	28.45
As(-), cm2:	18.92	13.98	10.71	10.71	10.71	10.71	10.71	10.71	13.02	18.81	25.20
As(+), cm2:	18.48	15.63	12.47	10.71	10.71	10.71	10.71	10.71	10.71	10.71	12.17
vu, Kg/cm2:	7.93	7.93	7.67	7.31	7.20	7.57	7.94	8.30	8.67	8.93	8.93
Tu, ton-m:	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-G 11 #3@ 15 5 #3@ 30 11 #3@ 15 8'-G

BEAM: G(8'-8) FLOOR: 5

Length: L = 2.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.40 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.20	1.44	1.68	1.92	2.16	2.40
Mu(-), ton-m:	-21.67	-17.42	-13.22	-9.07	-5.56	-5.56	-5.56	-10.84	-16.45	-22.10	-27.80
Mu(+), ton-m:	27.00	21.73	16.42	11.06	5.65	5.56	5.56	7.08	10.98	14.84	18.65
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.88
As(+), cm2:	11.53	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	8.51	8.51	8.51	8.52	8.56	8.60	8.64	8.68	8.69	8.69	8.69
Tu, ton-m:	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-G 16 #3@ 15 8-G

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:57 a.m. 05/08/2010

BEAM: G(8-7) FLOOR: 5

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 4.21 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.42	0.84	1.26	1.68	2.11	2.53	2.95	3.37	3.79	4.21
Mu(-), ton-m:	-30.93	-25.06	-19.80	-15.16	-11.14	-7.73	-4.95	-2.78	-1.24	-0.31	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.27	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	3.89	3.89	3.67	3.21	2.76	2.30	1.84	1.38	0.92	0.46	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-G 14 #3@ 30 7-G

BEAM: G'(10-9) FLOOR: 5

Length: L = 4.21 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.32	-1.23	-2.73	-4.82	-7.47	-10.62	-14.32	-18.52	-23.25	-28.51
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.95	10.08	12.51
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.78	1.57	2.35	3.09	3.79	4.49	5.19	5.88	6.15	6.15
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-G' 14 #3@ 30 9-G'

BEAM: G'(9-8) FLOOR: 5

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-27.18	-17.80	-10.37	-5.22	-2.11	-1.28	-2.70	-6.28	-11.89	-19.43	-28.87
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	11.89	7.62	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.35	12.67
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.02	5.79	4.29	2.79	1.30	0.23	1.73	3.16	4.50	5.83	6.04
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-G' 26 #3@ 30 8-G'

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:57 a.m. 05/08/2010

BEAM: G'(8-7) FLOOR: 5

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-29.88	-24.26	-19.20	-14.73	-10.86	-7.57	-4.87	-2.77	-1.26	-0.33	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.14	10.54	8.25	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.56	6.56	6.26	5.48	4.70	3.91	3.13	2.35	1.57	0.78	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-G' 14 #3@ 30 7-G'

BEAM: H(10-9) FLOOR: 5

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 1.80 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.21	1.45	1.69	1.93	2.17	2.41
Mu(-), ton-m:	0.00	-0.21	-0.52	-1.15	-1.99	-3.03	-4.39	-5.85	-7.69	-9.69	-12.08
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.31	0.62	0.93	1.24	1.55	1.85	2.13	2.23	2.23	2.23
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-H 8 #3@ 30 9-H

BEAM: H(9-8) FLOOR: 5

Length: L = 8.07 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 8.07 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-45.04	-28.58	-14.55	-10.32	-10.32	-10.32	-10.32	-10.32	-19.15	-34.17	-51.60
Mu(+), ton-m:	15.01	14.50	17.76	18.14	16.03	12.67	14.36	15.00	13.14	10.32	17.20
As(-), cm2:	19.69	12.23	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.72	22.76
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.13	5.91	4.96	4.18	3.41	3.10	3.88	4.62	5.36	6.29	6.48
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-H 11 #3@ 15 15 #3@ 30 11 #3@ 15 8-H

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:57 a.m. 05/08/2010

BEAM: H(8-7) FLOOR: 5

Length: L = 4.21 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.31	-9.80	-7.75	-5.86	-4.40	-3.05	-2.01	-1.18	-0.55	-0.22	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.27	2.27	2.27	2.17	1.86	1.55	1.24	0.93	0.62	0.31	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-H 8 #3@ 30 7-H

BEAM: H1(10-9) FLOOR: 5

Length: L = 4.21 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.31	-1.21	-2.70	-4.76	-7.38	-10.50	-14.14	-18.30	-22.98	-28.17
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.85	9.95	12.35
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.77	1.55	2.32	3.06	3.75	4.43	5.12	5.81	6.08	6.08
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-H1 14 #3@ 30 9-H1

BEAM: H1(9-8) FLOOR: 5

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-26.81	-17.52	-10.17	-5.08	-2.00	-1.17	-2.58	-6.13	-11.68	-19.13	-28.47
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	11.71	7.50	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.22	12.49
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	5.95	5.72	4.24	2.77	1.29	0.23	1.71	3.13	4.45	5.77	5.97
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-H1 26 #3@ 30 8-H1

BEAM: H1(8-7) FLOOR: 5

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-29.52	-23.96	-18.97	-14.55	-10.72	-7.48	-4.82	-2.74	-1.24	-0.33	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.97	10.40	8.15	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.48	6.48	6.19	5.41	4.64	3.87	3.09	2.32	1.55	0.77	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-H1 14 #3@ 30 7-H1

BEAM: I(10-9) FLOOR: 5

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 1.80 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.21	1.45	1.69	1.93	2.17	2.41
Mu(-), ton-m:	0.00	-0.22	-0.54	-1.19	-2.06	-3.15	-4.56	-6.07	-7.99	-10.07	-12.55
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.32	0.64	0.96	1.29	1.61	1.92	2.21	2.31	2.31	2.31
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-I 8 #3@ 30 9-I

BEAM: I(9-8) FLOOR: 5

Length: L = 8.07 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 8.07 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-48.62	-31.16	-16.21	-10.63	-10.63	-10.63	-10.63	-10.63	-19.65	-35.16	-53.17
Mu(+), ton-m:	16.21	14.69	18.17	18.65	16.54	13.20	15.29	16.32	14.76	10.71	17.72
As(-), cm2:	21.35	13.37	10.71	10.71	10.71	10.71	10.71	10.71	10.71	15.17	23.50
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.51	6.28	5.22	4.42	3.61	3.17	3.97	4.74	5.53	6.50	6.70
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-I 11 #3@ 15 15 #3@ 30 11 #3@ 15 8-I

BEAM: I(8-7) FLOOR: 5

Length: L = 4.21 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.45	-9.92	-7.84	-5.93	-4.45	-3.09	-2.04	-1.19	-0.55	-0.22	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.30	2.30	2.30	2.19	1.88	1.57	1.25	0.94	0.63	0.31	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-I 8 #3@ 30 7-I

BEAM: I1(10-9) FLOOR: 5

Length: L = 4.21 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.33	-1.27	-2.83	-4.99	-7.74	-11.01	-14.83	-19.19	-24.09	-29.54
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.24	10.46	12.98
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.81	1.62	2.43	3.20	3.93	4.65	5.37	6.09	6.37	6.37
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-I1 14 #3@ 30 9-I1

BEAM: I1(9-8) FLOOR: 5

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-28.24	-18.41	-10.61	-5.17	-1.84	-0.88	-2.27	-5.89	-11.61	-19.33	-29.03
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.38	7.90	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.31	12.74
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.31	6.07	4.52	2.97	1.42	0.19	1.73	3.22	4.60	5.98	6.19
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-I1 26 #3@ 30 8-I1

BEAM: I1(8-7) FLOOR: 5

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-30.07	-24.41	-19.32	-14.83	-10.92	-7.62	-4.91	-2.79	-1.26	-0.33	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.23	10.61	8.30	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.60	6.60	6.30	5.51	4.73	3.94	3.15	2.36	1.58	0.79	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-I1 14 #3@ 30 7-I1

BEAM: J(10-9) FLOOR: 5

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 1.80 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.21	1.45	1.69	1.93	2.17	2.41
Mu(-), ton-m:	0.00	-0.21	-0.53	-1.17	-2.02	-3.08	-4.46	-5.94	-7.82	-9.85	-12.28
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.31	0.63	0.94	1.26	1.57	1.88	2.17	2.26	2.26	2.26
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-J 8 #3@ 30 9-J

BEAM: J(9-8) FLOOR: 5

Length: L = 8.07 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 8.07 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-49.90	-32.35	-17.26	-10.55	-10.55	-10.55	-10.55	-10.55	-19.64	-34.96	-52.73
Mu(+), ton-m:	16.63	14.95	18.22	18.55	16.34	13.02	15.44	16.92	15.86	12.36	17.58
As(-), cm2:	21.96	13.90	10.71	10.71	10.71	10.71	10.71	10.71	10.71	15.08	23.29
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.55	6.33	5.28	4.43	3.65	3.12	3.90	4.66	5.47	6.41	6.61
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-J 11 #3@ 15 15 #3@ 30 11 #3@ 15 8-J

BEAM: J(8-7) FLOOR: 5

Length: L = 4.21 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.52	-9.97	-7.88	-5.96	-4.48	-3.10	-2.05	-1.20	-0.56	-0.23	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.31	2.31	2.31	2.20	1.89	1.57	1.26	0.94	0.63	0.31	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-J 8 #3@ 30 7-J

BEAM: J1(10-9) FLOOR: 5

Length: L = 4.21 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.33	-1.27	-2.83	-4.99	-7.74	-11.01	-14.83	-19.19	-24.09	-29.54
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.24	10.46	12.98
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.81	1.62	2.43	3.20	3.93	4.65	5.37	6.09	6.37	6.37
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-J1 14 #3@ 30 9-J1

BEAM: J1(9-8) FLOOR: 5

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-28.26	-18.51	-10.79	-5.44	-2.19	-1.32	-2.79	-6.49	-12.30	-20.11	-29.89
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.39	7.94	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.66	13.15
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.25	6.01	4.46	2.91	1.36	0.24	1.79	3.28	4.66	6.04	6.25
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-J1 26 #3@ 30 8-J1

BEAM: J1(8-7) FLOOR: 5

Length:	L = 4.21 m		a = 0.25 m	Section:	b = 30.0 cm		Sec:	S30X70		
	Lu = 3.96 m		c = 0.00 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-30.96	-25.13	-19.89	-15.26	-11.25	-7.84	-5.05	-2.87	-1.30	-0.34	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.65	10.94	8.56	6.50	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.80	6.80	6.49	5.68	4.87	4.05	3.24	2.43	1.62	0.81	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-J1 — 14 #3@ 30 — 7-J1

BEAM: K(10-9) FLOOR: 5

Length:	L = 4.21 m		a = 0.00 m	Section:	b = 50.0 cm		Sec:	S50X70		
	Lu = 2.41 m		c = 1.80 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.00	0.24	0.48	0.72	0.96	1.21	1.45	1.69	1.93	2.17	2.41
Mu(-), ton-m:	0.00	-0.22	-0.54	-1.19	-2.06	-3.15	-4.56	-6.07	-7.99	-10.07	-12.55
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.32	0.64	0.96	1.29	1.61	1.92	2.21	2.31	2.31	2.31
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-K — 8 #3@ 30 — 9-K

BEAM: K(9-8) FLOOR: 5

Length:	L = 8.07 m		a = 0.00 m	Section:	b = 50.0 cm		Sec:	S50X70		
	Lu = 8.07 m		c = 0.00 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-52.07	-33.92	-18.29	-10.65	-10.65	-10.65	-10.65	-10.65	-19.71	-35.24	-53.27
Mu(+), ton-m:	17.36	14.77	18.23	18.69	16.56	13.31	15.98	17.70	16.84	13.48	17.76
As(-), cm2:	22.98	14.61	10.71	10.71	10.71	10.71	10.71	10.71	10.71	15.21	23.55
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.77	6.55	5.48	4.57	3.76	3.12	3.93	4.70	5.54	6.51	6.71
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-K — 11 #3@ 15 15 #3@ 30 11 #3@ 15 — 8-K

BEAM: K(8-7) FLOOR: 5

Length:	L = 4.21 m		a = 1.80 m	Section:	b = 50.0 cm		Sec:	S50X70		
	Lu = 2.41 m		c = 0.00 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.79	-10.19	-8.05	-6.09	-4.57	-3.17	-2.09	-1.22	-0.57	-0.23	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.36	2.36	2.36	2.25	1.93	1.61	1.29	0.96	0.64	0.32	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-K — 8 #3@ 30 — 7-K

BEAM: K1(10-9) FLOOR: 5

Length:	L = 4.21 m		a = 0.00 m	Section:	b = 30.0 cm		Sec:	S30X70		
	Lu = 3.96 m		c = 0.25 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.33	-1.27	-2.83	-4.99	-7.74	-11.01	-14.83	-19.19	-24.09	-29.54
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.24	10.46	12.98
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.81	1.62	2.43	3.20	3.93	4.65	5.37	6.09	6.37	6.37
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-K1 — 14 #3@ 30 — 9-K1

BEAM: K1(9-8) FLOOR: 5

Length:	L = 8.07 m		a = 0.25 m	Section:	b = 30.0 cm		Sec:	S30X70		
	Lu = 7.57 m		c = 0.25 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-28.33	-18.57	-10.84	-5.47	-2.22	-1.33	-2.78	-6.48	-12.27	-20.06	-29.83
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.42	7.97	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.64	13.12
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.26	6.02	4.47	2.92	1.37	0.23	1.78	3.27	4.65	6.03	6.24
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-K1 — 26 #3@ 30 — 8-K1

BEAM: K1(8-7) FLOOR: 5

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-30.96	-25.13	-19.89	-15.26	-11.25	-7.84	-5.05	-2.87	-1.30	-0.34	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.65	10.94	8.56	6.50	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.80	6.80	6.49	5.68	4.87	4.05	3.24	2.43	1.62	0.81	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-K1 14 #3@ 30 7-K1

BEAM: L(10-9) FLOOR: 5

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 1.80 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.21	1.45	1.69	1.93	2.17	2.41
Mu(-), ton-m:	0.00	-0.22	-0.54	-1.19	-2.06	-3.14	-4.55	-6.06	-7.98	-10.05	-12.54
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.32	0.64	0.96	1.29	1.61	1.92	2.21	2.31	2.31	2.31
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-L 8 #3@ 30 9-L

BEAM: L(9-8) FLOOR: 5

Length: L = 8.07 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 6.27 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.43	3.05	3.68	4.31	4.93	5.56	6.19	6.81	7.44	8.07
Mu(-), ton-m:	-62.92	-45.13	-29.81	-16.15	-12.58	-12.58	-12.58	-13.32	-25.56	-39.18	-54.19
Mu(+), ton-m:	26.83	26.67	24.04	19.75	14.53	12.58	15.96	22.59	28.30	32.63	35.57
As(-), cm2:	28.20	19.73	12.77	10.71	10.71	10.71	10.71	10.71	10.89	16.99	23.99
As(+), cm2:	11.45	11.38	10.71	10.71	10.71	10.71	10.71	10.71	12.10	14.03	15.35
vu, Kg/cm2:	8.11	8.11	7.29	6.47	5.99	5.58	5.82	6.38	6.95	7.50	7.50
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-L 11 #3@ 15 9 #3@ 30 11 #3@ 15 8-L

BEAM: L(8-7) FLOOR: 5

Length: L = 4.21 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.79	-10.19	-8.05	-6.09	-4.57	-3.17	-2.09	-1.22	-0.57	-0.23	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.36	2.36	2.36	2.25	1.93	1.61	1.29	0.96	0.64	0.32	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-L 8 #3@ 30 7-L

BEAM: L1(10-9) FLOOR: 5

Length: L = 4.21 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.19	-0.72	-1.59	-2.82	-4.37	-6.22	-8.39	-10.87	-13.65	-16.75
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.16
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.46	0.91	1.37	1.81	2.22	2.64	3.05	3.46	3.62	3.62
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-L1 14 #3@ 30 9-L1

BEAM: L1(9-8) FLOOR: 5

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-16.57	-11.04	-6.65	-3.59	-1.72	-1.19	-2.00	-4.07	-7.34	-11.75	-17.29
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	7.08	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.40
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	3.55	3.42	2.54	1.67	0.79	0.12	0.99	1.84	2.63	3.42	3.54
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-L1 26 #3@ 30 8-L1

BEAM: L1(8-7) FLOOR: 5

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-17.46	-14.18	-11.22	-8.61	-6.34	-4.42	-2.85	-1.62	-0.73	-0.19	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	7.47	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	3.83	3.83	3.66	3.20	2.74	2.29	1.83	1.37	0.91	0.46	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-L1 14 #3@ 30 7-L1

BEAM: B'(10-9) FLOOR: 6

Length: L = 4.21 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.19	-0.72	-1.61	-2.85	-4.42	-6.29	-8.48	-10.98	-13.79	-16.92
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.24
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.46	0.92	1.39	1.83	2.25	2.66	3.08	3.50	3.66	3.66
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-B' 14 #3@ 30 9-B'

BEAM: B'(9-8) FLOOR: 6

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-16.68	-11.11	-6.68	-3.61	-1.74	-1.21	-2.04	-4.15	-7.46	-11.93	-17.54
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	7.13	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.51
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	3.58	3.44	2.56	1.67	0.79	0.13	1.01	1.87	2.66	3.46	3.58
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-B' 26 #3@ 30 8-B'

BEAM: B'(8-7) FLOOR: 6

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-17.64	-14.32	-11.34	-8.70	-6.41	-4.47	-2.88	-1.64	-0.74	-0.20	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	7.55	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	3.87	3.87	3.70	3.23	2.77	2.31	1.85	1.39	0.92	0.46	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-B' 14 #3@ 30 7-B'

BEAM: C(10-9) FLOOR: 6

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 1.80 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.21	1.45	1.69	1.93	2.17	2.41
Mu(-), ton-m:	0.00	-0.22	-0.55	-1.20	-2.07	-3.16	-4.58	-6.10	-8.03	-10.11	-12.60
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.32	0.65	0.97	1.29	1.62	1.93	2.22	2.32	2.32	2.32
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-C 8 #3@ 30 9-C

BEAM: C(9-8) FLOOR: 6

Length: L = 8.07 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 6.27 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.43	3.05	3.68	4.31	4.93	5.56	6.19	6.81	7.44	8.07
Mu(-), ton-m:	-58.02	-41.19	-26.84	-14.16	-11.95	-11.95	-11.95	-15.46	-28.84	-43.61	-59.77
Mu(+), ton-m:	32.42	31.19	27.47	22.09	15.75	11.95	14.97	20.56	25.25	28.55	30.46
As(-), cm2:	25.82	17.91	11.46	10.71	10.71	10.71	10.71	10.71	12.34	19.02	26.67
As(+), cm2:	13.94	13.39	11.74	10.71	10.71	10.71	10.71	10.71	10.76	12.21	13.06
vu, Kg/cm2:	7.63	7.63	6.81	5.97	5.24	5.39	5.87	6.44	7.04	7.78	7.78
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-C 11 #3@ 15 9 #3@ 30 11 #3@ 15 8-C

BEAM: C(8-7) FLOOR: 6

Length: L = 4.21 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.86	-10.24	-8.09	-6.12	-4.60	-3.19	-2.10	-1.23	-0.57	-0.23	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.38	2.38	2.38	2.26	1.94	1.62	1.29	0.97	0.65	0.32	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-C 8 #3@ 30 7-C

BEAM: C1(10-9) FLOOR: 6

Length: L = 4.21 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.33	-1.27	-2.83	-4.99	-7.74	-11.01	-14.83	-19.19	-24.09	-29.54
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.24	10.46	12.98
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.81	1.62	2.43	3.20	3.93	4.65	5.37	6.09	6.37	6.37
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-C1 14 #3@ 30 9-C1

BEAM: C1(9-8) FLOOR: 6

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-28.21	-18.47	-10.76	-5.42	-2.19	-1.33	-2.81	-6.52	-12.34	-20.15	-29.94
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.36	7.92	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.68	13.17
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.24	6.00	4.45	2.90	1.35	0.24	1.79	3.28	4.66	6.04	6.26
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-C1 26 #3@ 30 8-C1

BEAM: C1(8-7) FLOOR: 6

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-30.96	-25.13	-19.89	-15.26	-11.25	-7.84	-5.05	-2.87	-1.30	-0.34	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.65	10.94	8.56	6.50	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.80	6.80	6.49	5.68	4.87	4.05	3.24	2.43	1.62	0.81	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-C1 14 #3@ 30 7-C1

BEAM: D(10-9) FLOOR: 6

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 1.80 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.21	1.45	1.69	1.93	2.17	2.41
Mu(-), ton-m:	0.00	-0.22	-0.54	-1.19	-2.06	-3.15	-4.56	-6.07	-7.99	-10.07	-12.55
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.32	0.64	0.96	1.29	1.61	1.92	2.21	2.31	2.31	2.31
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-D 8 #3@ 30 9-D

BEAM: D(9-8) FLOOR: 6

Length: L = 8.07 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 8.07 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-45.36	-28.55	-14.26	-11.13	-11.13	-11.13	-11.13	-11.13	-21.14	-37.16	-55.66
Mu(+), ton-m:	15.12	16.70	19.68	19.66	17.05	13.18	14.63	15.01	12.80	11.13	18.55
As(-), cm2:	19.84	12.21	10.71	10.71	10.71	10.71	10.71	10.71	10.71	16.07	24.69
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.25	6.03	5.12	4.31	3.50	3.40	4.20	4.97	5.72	6.69	6.89
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-D 11 #3@ 15 15 #3@ 30 11 #3@ 15 8-D

BEAM: D(8-7) FLOOR: 6

Length: L = 4.21 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.79	-10.19	-8.05	-6.09	-4.57	-3.17	-2.09	-1.22	-0.57	-0.23	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.36	2.36	2.36	2.25	1.93	1.61	1.29	0.96	0.64	0.32	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-D 8 #3@ 30 7-D

BEAM: D1(10-9) FLOOR: 6

Length: L = 4.21 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.33	-1.27	-2.83	-4.99	-7.74	-11.01	-14.83	-19.19	-24.09	-29.54
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.24	10.46	12.98
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.81	1.62	2.43	3.20	3.93	4.65	5.37	6.09	6.37	6.37
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-D1 14 #3@ 30 9-D1

BEAM: D1(9-8) FLOOR: 6

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-28.12	-18.40	-10.71	-5.38	-2.17	-1.32	-2.81	-6.54	-12.37	-20.19	-30.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.32	7.89	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.69	13.20
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.23	5.99	4.44	2.89	1.34	0.25	1.80	3.29	4.67	6.05	6.27
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-D1 26 #3@ 30 8-D1

BEAM: D1(8-7) FLOOR: 6

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-30.96	-25.13	-19.89	-15.26	-11.25	-7.84	-5.05	-2.87	-1.30	-0.34	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.65	10.94	8.56	6.50	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.80	6.80	6.49	5.68	4.87	4.05	3.24	2.43	1.62	0.81	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-D1 14 #3@ 30 7-D1

BEAM: E(10-9) FLOOR: 6

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 1.80 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.21	1.45	1.69	1.93	2.17	2.41
Mu(-), ton-m:	0.00	-0.22	-0.54	-1.19	-2.06	-3.15	-4.56	-6.07	-7.99	-10.07	-12.55
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.32	0.64	0.96	1.29	1.61	1.92	2.21	2.31	2.31	2.31
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-E 8 #3@ 30 9-E

BEAM: E(9-8) FLOOR: 6

Length: L = 8.07 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 8.07 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-43.98	-27.44	-13.43	-10.66	-10.66	-10.66	-10.66	-10.66	-19.71	-35.25	-53.28
Mu(+), ton-m:	14.66	14.81	18.26	18.72	16.58	13.07	14.35	14.45	11.97	10.66	17.76
As(-), cm2:	19.19	11.72	10.71	10.71	10.71	10.71	10.71	10.71	10.71	15.21	23.55
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.15	5.92	5.02	4.22	3.41	3.24	4.05	4.82	5.54	6.51	6.71
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-E 11 #3@ 15 15 #3@ 30 11 #3@ 15 8-E

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:57 a.m. 05/08/2010

BEAM: E(8-7) FLOOR: 6

Length: L = 4.21 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.79	-10.19	-8.05	-6.09	-4.57	-3.17	-2.09	-1.22	-0.57	-0.23	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.36	2.36	2.36	2.25	1.93	1.61	1.29	0.96	0.64	0.32	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-E 8 #3@ 30 7-E

BEAM: E'(10-9) FLOOR: 6

Length: L = 4.21 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.33	-1.27	-2.83	-4.99	-7.74	-11.01	-14.83	-19.19	-24.09	-29.54
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.24	10.46	12.98
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.81	1.62	2.43	3.20	3.93	4.65	5.37	6.09	6.37	6.37
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-E' 14 #3@ 30 9-E'

BEAM: E'(9-8) FLOOR: 6

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-28.19	-18.48	-10.78	-5.46	-2.24	-1.39	-2.87	-6.58	-12.40	-20.21	-30.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.36	7.93	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.70	13.20
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.23	5.99	4.44	2.89	1.34	0.24	1.79	3.28	4.66	6.04	6.26
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-E' 26 #3@ 30 8-E'

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:57 a.m. 05/08/2010

BEAM: E'(8-7) FLOOR: 6

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-30.96	-25.13	-19.89	-15.26	-11.25	-7.84	-5.05	-2.87	-1.30	-0.34	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.65	10.94	8.56	6.50	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.80	6.80	6.49	5.68	4.87	4.05	3.24	2.43	1.62	0.81	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-E' 14 #3@ 30 7-E'

BEAM: F(10-9') FLOOR: 6

Length: L = 1.41 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 1.01 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.10	0.20	0.30	0.40	0.50	0.61	0.71	0.81	0.91	1.01
Mu(-), ton-m:	0.00	-0.03	-0.08	-0.16	-0.28	-0.44	-0.63	-0.84	-1.11	-1.41	-1.74
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.11	0.21	0.32	0.43	0.53	0.64	0.39	0.39	0.39	0.39
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-F 4 #3@ 30 9'-F

BEAM: F(9'-9) FLOOR: 6

Length: L = 2.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.40 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.20	1.44	1.68	1.92	2.16	2.40
Mu(-), ton-m:	-25.44	-20.16	-14.93	-9.74	-5.09	-5.09	-5.09	-8.17	-12.21	-16.28	-20.41
Mu(+), ton-m:	18.64	14.95	11.21	7.43	5.09	5.09	5.55	10.55	15.49	20.39	25.23
As(-), cm2:	10.84	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.75
vu, Kg/cm2:	8.03	8.03	8.03	8.01	7.97	7.93	7.89	7.85	7.84	7.84	7.84
Tu, ton-m:	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F 16 #3@ 15 9-F

BEAM: F(9-8') FLOOR: 6

Length: L = 5.27 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 4.87 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.49	0.97	1.46	1.95	2.44	2.92	3.41	3.90	4.38	4.87
Mu(-), ton-m:	-45.13	-34.01	-23.68	-14.14	-12.44	-12.44	-12.44	-20.68	-33.73	-47.57	-62.19
Mu(+), ton-m:	48.53	41.01	32.71	23.61	13.72	12.44	12.44	16.12	21.71	26.50	30.52
As(-), cm2:	19.73	14.65	10.71	10.71	10.71	10.71	10.71	10.71	14.53	20.87	27.85
As(+), cm2:	21.31	17.83	14.07	10.71	10.71	10.71	10.71	10.71	10.71	11.31	13.09
vu, Kg/cm2:	8.52	8.52	8.27	7.93	8.23	8.58	8.94	9.30	9.65	9.90	9.90
Tu, ton-m:	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-F 11 #3@ 15 5 #3@ 30 11 #3@ 15 8'-F

BEAM: F(8'-8) FLOOR: 6

Length: L = 2.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.40 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.20	1.44	1.68	1.92	2.16	2.40
Mu(-), ton-m:	-23.00	-18.50	-14.04	-9.63	-5.38	-5.38	-5.38	-10.47	-15.89	-21.36	-26.89
Mu(+), ton-m:	26.11	21.02	15.89	10.71	5.49	5.38	5.38	7.54	11.71	15.82	19.89
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.48
As(+), cm2:	11.13	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	8.03	8.03	8.03	8.04	8.08	8.13	8.17	8.21	8.22	8.22	8.22
Tu, ton-m:	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F 16 #3@ 15 8-F

BEAM: F(8-7) FLOOR: 6

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 4.21 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.42	0.84	1.26	1.68	2.11	2.53	2.95	3.37	3.79	4.21
Mu(-), ton-m:	-29.92	-24.24	-19.15	-14.66	-10.77	-7.48	-4.79	-2.69	-1.20	-0.30	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.82	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	3.77	3.77	3.55	3.11	2.67	2.22	1.78	1.33	0.89	0.44	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-F 14 #3@ 30 7-F

BEAM: F1(10-9') FLOOR: 6

Length: L = 1.41 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 1.16 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.12	0.23	0.35	0.46	0.58	0.70	0.81	0.93	1.04	1.16
Mu(-), ton-m:	0.00	-0.02	-0.07	-0.14	-0.24	-0.37	-0.54	-0.73	-0.96	-1.21	-1.49
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	0.00	0.16	0.32	0.48	0.64	0.80	0.72	0.72	0.72	0.72	0.72
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-F1 5 #3@ 30 9'-F1

BEAM: F1(9'-9) FLOOR: 6

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.77	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-10.26	-8.09	-5.95	-3.84	-2.05	-2.05	-2.05	-3.58	-5.34	-7.13	-8.94
Mu(+), ton-m:	7.98	6.41	4.81	3.18	2.05	2.05	2.33	4.33	6.31	8.26	10.18
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	6.03	6.03	6.03	6.00	5.96	5.91	5.87	5.82	5.80	5.80	5.80
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F1 17 #3@ 15 9-F1

BEAM: F1(9-8') FLOOR: 6

Length: L = 5.27 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 5.02 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.50	1.00	1.51	2.01	2.51	3.01	3.51	4.02	4.52	5.02
Mu(-), ton-m:	-23.84	-17.57	-11.85	-6.69	-6.42	-6.42	-6.42	-9.95	-16.79	-24.19	-32.10
Mu(+), ton-m:	22.49	19.52	15.99	11.90	7.27	6.42	6.42	8.44	10.85	12.70	14.03
As(-), cm2:	10.46	7.58	5.36	5.36	5.36	5.36	5.36	5.36	7.23	10.62	14.41
As(+), cm2:	9.83	8.46	6.87	5.36	5.36	5.36	5.36	5.36	5.36	5.41	6.00
vu, Kg/cm2:	8.74	8.74	8.39	7.89	7.71	8.20	8.69	9.19	9.68	10.04	10.04
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-F1 11 #3@ 15 5 #3@ 30 11 #3@ 15 8'-F1

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:58 a.m. 05/08/2010

BEAM: F1(8'-8) FLOOR: 6

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.76	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-8.34	-6.70	-5.08	-3.49	-2.42	-2.42	-2.42	-4.67	-7.12	-9.59	-12.09
Mu(+), ton-m:	11.68	9.42	7.14	4.83	2.50	2.42	2.42	2.60	4.05	5.48	6.88
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	7.12	7.12	7.12	7.14	7.19	7.23	7.28	7.33	7.35	7.35	7.35
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F1 17 #3@ 15 8-F1

BEAM: F1(8-7) FLOOR: 6

Length: L = 4.21 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 4.21 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.42	0.84	1.26	1.68	2.11	2.53	2.95	3.37	3.79	4.21
Mu(-), ton-m:	-19.52	-15.81	-12.49	-9.56	-7.03	-4.88	-3.12	-1.76	-0.78	-0.20	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	8.46	6.79	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	4.91	4.91	4.64	4.06	3.48	2.90	2.32	1.74	1.16	0.58	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-F1 14 #3@ 30 7-F1

BEAM: F2(10-9') FLOOR: 6

Length: L = 1.41 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 1.16 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.12	0.23	0.35	0.46	0.58	0.70	0.81	0.93	1.04	1.16
Mu(-), ton-m:	0.00	-0.02	-0.07	-0.15	-0.26	-0.40	-0.57	-0.78	-1.02	-1.28	-1.58
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	0.00	0.17	0.34	0.51	0.68	0.85	0.76	0.76	0.76	0.76	0.76
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-F2 5 #3@ 30 9'-F2

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:58 a.m. 05/08/2010

BEAM: F2(9'-9) FLOOR: 6

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.77	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-8.42	-6.62	-4.85	-3.10	-1.68	-1.68	-1.68	-3.15	-4.67	-6.22	-7.80
Mu(+), ton-m:	6.77	5.44	4.07	2.68	1.68	1.68	1.97	3.61	5.22	6.80	8.36
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	4.91	4.91	4.91	4.89	4.84	4.80	4.75	4.71	4.68	4.68	4.68
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F2 17 #3@ 15 9-F2

BEAM: F2(9-8') FLOOR: 6

Length: L = 5.27 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 5.02 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.50	1.00	1.51	2.01	2.51	3.01	3.51	4.02	4.52	5.02
Mu(-), ton-m:	-24.06	-17.65	-11.84	-6.60	-6.37	-6.37	-6.37	-9.66	-16.49	-23.89	-31.85
Mu(+), ton-m:	21.65	18.94	15.64	11.75	7.28	6.37	6.37	8.46	10.76	12.47	13.63
As(-), cm2:	10.56	7.62	5.36	5.36	5.36	5.36	5.36	5.36	7.09	10.48	14.29
As(+), cm2:	9.44	8.20	6.71	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.82
vu, Kg/cm2:	8.76	8.76	8.38	7.85	7.47	8.00	8.52	9.05	9.57	9.95	9.95
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-F2 11 #3@ 15 5 #3@ 30 11 #3@ 15 8'-F2

BEAM: F2(8'-8) FLOOR: 6

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.76	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-7.06	-5.68	-4.32	-2.99	-2.04	-2.04	-2.04	-3.91	-5.98	-8.07	-10.20
Mu(+), ton-m:	9.81	7.93	6.03	4.09	2.13	2.04	2.04	2.05	3.25	4.42	5.56
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	5.99	5.99	5.99	6.01	6.06	6.11	6.15	6.20	6.22	6.22	6.22
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F2 17 #3@ 15 8-F2

BEAM: F2(8-7) FLOOR: 6

Length: L = 4.21 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 4.21 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.42	0.84	1.26	1.68	2.11	2.53	2.95	3.37	3.79	4.21
Mu(-), ton-m:	-20.73	-16.79	-13.27	-10.16	-7.46	-5.18	-3.32	-1.87	-0.83	-0.21	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	9.02	7.23	5.66	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	5.22	5.22	4.92	4.31	3.69	3.08	2.46	1.85	1.23	0.62	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-F2 14 #3@ 30 7-F2

BEAM: F3(10-9') FLOOR: 6

Length: L = 1.41 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 1.16 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.12	0.23	0.35	0.46	0.58	0.70	0.81	0.93	1.04	1.16
Mu(-), ton-m:	0.00	-0.02	-0.07	-0.15	-0.26	-0.41	-0.58	-0.79	-1.04	-1.31	-1.62
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	0.00	0.17	0.35	0.52	0.69	0.86	0.78	0.78	0.78	0.78	0.78
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-F3 5 #3@ 30 9'-F3

BEAM: F3(9'-9) FLOOR: 6

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.77	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-9.19	-7.24	-5.33	-3.44	-1.84	-1.84	-1.84	-3.36	-5.02	-6.70	-8.41
Mu(+), ton-m:	7.47	6.01	4.51	2.99	1.84	1.84	2.07	3.85	5.61	7.34	9.04
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	5.32	5.32	5.32	5.29	5.25	5.20	5.16	5.11	5.09	5.09	5.09
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F3 17 #3@ 15 9-F3

BEAM: F3(9-8') FLOOR: 6

Length: L = 5.27 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 5.02 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.50	1.00	1.51	2.01	2.51	3.01	3.51	4.02	4.52	5.02
Mu(-), ton-m:	-22.43	-16.32	-10.80	-5.90	-5.90	-5.90	-5.90	-8.67	-15.03	-21.98	-29.49
Mu(+), ton-m:	19.06	16.89	14.13	10.76	6.80	5.90	5.90	7.81	9.74	11.07	11.84
As(-), cm2:	9.80	7.02	5.36	5.36	5.36	5.36	5.36	5.36	6.44	9.59	13.14
As(+), cm2:	8.25	7.27	6.04	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	8.19	8.19	7.80	7.26	6.77	7.24	7.77	8.31	8.84	9.23	9.23
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-F3 11 #3@ 15 5 #3@ 30 11 #3@ 15 8'-F3

BEAM: F3(8'-8) FLOOR: 6

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.76	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-6.82	-5.48	-4.16	-2.87	-2.34	-2.34	-2.34	-4.54	-6.90	-9.29	-11.70
Mu(+), ton-m:	11.22	9.05	6.85	4.63	2.37	2.34	2.34	2.34	3.18	4.31	5.41
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	7.09	7.09	7.09	7.11	7.16	7.20	7.25	7.29	7.32	7.32	7.32
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F3 17 #3@ 15 8-F3

BEAM: F3(8-7) FLOOR: 6

Length: L = 4.21 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 4.21 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.42	0.84	1.26	1.68	2.11	2.53	2.95	3.37	3.79	4.21
Mu(-), ton-m:	-21.14	-17.12	-13.53	-10.36	-7.61	-5.28	-3.38	-1.90	-0.85	-0.21	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	9.20	7.38	5.78	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	5.32	5.32	5.02	4.39	3.77	3.14	2.51	1.88	1.26	0.63	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-F3 14 #3@ 30 7-F3

BEAM: G(10-9') FLOOR: 6

Length: L = 1.41 m Lu = 1.01 m a = 0.00 m c = 0.40 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.10	0.20	0.30	0.40	0.50	0.61	0.71	0.81	0.91	1.01
Mu(-), ton-m:	0.00	-0.03	-0.08	-0.17	-0.29	-0.46	-0.65	-0.87	-1.15	-1.45	-1.80
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.11	0.22	0.33	0.44	0.55	0.66	0.40	0.40	0.40	0.40
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-G 4 #3@ 30 9'-G

BEAM: G(9'-9) FLOOR: 6

Length: L = 2.80 m Lu = 2.40 m a = 0.00 m c = 0.40 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.20	1.44	1.68	1.92	2.16	2.40
Mu(-), ton-m:	-21.31	-16.87	-12.47	-8.11	-4.26	-4.26	-4.26	-7.32	-10.94	-14.60	-18.32
Mu(+), ton-m:	16.61	13.33	10.00	6.63	4.26	4.26	4.68	8.85	12.96	17.02	21.04
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.62	6.62	6.62	6.61	6.57	6.52	6.48	6.44	6.43	6.43	6.43
Tu, ton-m:	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-G 16 #3@ 15 9-G

BEAM: G(9-8') FLOOR: 6

Length: L = 5.27 m Lu = 4.87 m a = 0.00 m c = 0.40 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.49	0.97	1.46	1.95	2.44	2.92	3.41	3.90	4.38	4.87
Mu(-), ton-m:	-40.20	-29.99	-20.59	-12.01	-10.64	-10.64	-10.64	-16.99	-28.26	-40.33	-53.22
Mu(+), ton-m:	38.94	33.40	27.05	19.87	11.88	10.64	10.64	14.12	18.61	22.28	25.15
As(-), cm2:	17.46	12.85	10.71	10.71	10.71	10.71	10.71	10.71	12.08	17.52	23.52
As(+), cm2:	16.88	14.38	11.55	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.44	7.44	7.19	6.82	6.69	7.06	7.43	7.79	8.16	8.41	8.41
Tu, ton-m:	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-G 11 #3@ 15 5 #3@ 30 11 #3@ 15 8'-G

BEAM: G(8'-8) FLOOR: 6

Length: L = 2.80 m Lu = 2.40 m a = 0.00 m c = 0.40 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.20	1.44	1.68	1.92	2.16	2.40
Mu(-), ton-m:	-18.08	-14.55	-11.06	-7.62	-4.97	-4.97	-4.97	-9.68	-14.69	-19.74	-24.85
Mu(+), ton-m:	23.97	19.30	14.58	9.82	5.01	4.97	4.97	5.69	8.88	12.03	15.13
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.69	7.69	7.69	7.71	7.75	7.79	7.83	7.87	7.88	7.88	7.88
Tu, ton-m:	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-G 16 #3@ 15 8-G

BEAM: G(8-7) FLOOR: 6

Length: L = 4.21 m Lu = 4.21 m a = 0.00 m c = 0.00 m Section: b = 50.0 cm h = 70.0 cm Sec: S50X70 Mat: RConcrete2

X, m:	0.00	0.42	0.84	1.26	1.68	2.11	2.53	2.95	3.37	3.79	4.21
Mu(-), ton-m:	-30.93	-25.06	-19.80	-15.16	-11.14	-7.73	-4.95	-2.78	-1.24	-0.31	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.27	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	3.89	3.89	3.67	3.21	2.76	2.30	1.84	1.38	0.92	0.46	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-G 14 #3@ 30 7-G

BEAM: G'(10-9) FLOOR: 6

Length: L = 4.21 m Lu = 3.96 m a = 0.00 m c = 0.25 m Section: b = 30.0 cm h = 70.0 cm Sec: S30X70 Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.32	-1.23	-2.73	-4.82	-7.47	-10.62	-14.32	-18.52	-23.25	-28.51
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.95	10.08	12.51
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.78	1.57	2.35	3.09	3.79	4.49	5.19	5.88	6.15	6.15
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-G' 14 #3@ 30 9-G'

BEAM: G'(9-8) FLOOR: 6

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-27.18	-17.79	-10.36	-5.22	-2.11	-1.28	-2.70	-6.28	-11.89	-19.42	-28.87
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	11.88	7.62	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.35	12.67
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.02	5.78	4.29	2.79	1.30	0.23	1.73	3.16	4.50	5.83	6.04
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-G' 26 #3@ 30 8-G'

BEAM: G'(8-7) FLOOR: 6

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-29.88	-24.26	-19.20	-14.73	-10.86	-7.57	-4.87	-2.77	-1.26	-0.33	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.14	10.54	8.25	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.56	6.56	6.26	5.48	4.70	3.91	3.13	2.35	1.57	0.78	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-G' 14 #3@ 30 7-G'

BEAM: H(10-9) FLOOR: 6

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 1.80 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.21	1.45	1.69	1.93	2.17	2.41
Mu(-), ton-m:	0.00	-0.21	-0.52	-1.15	-1.99	-3.03	-4.39	-5.85	-7.69	-9.69	-12.08
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.31	0.62	0.93	1.24	1.55	1.85	2.13	2.23	2.23	2.23
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-H 8 #3@ 30 9-H

BEAM: H(9-8) FLOOR: 6

Length: L = 8.07 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 8.07 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-43.05	-26.99	-13.36	-9.95	-9.95	-9.95	-9.95	-9.95	-18.05	-32.70	-49.75
Mu(+), ton-m:	14.35	13.00	16.64	17.39	15.64	12.55	13.95	14.18	11.93	9.95	16.58
As(-), cm2:	18.76	11.52	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.06	21.89
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.97	5.76	4.85	4.07	3.29	3.00	3.78	4.52	5.22	6.15	6.34
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-H 11 #3@ 15 15 #3@ 30 11 #3@ 15 8-H

BEAM: H(8-7) FLOOR: 6

Length: L = 4.21 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.31	-9.80	-7.75	-5.86	-4.40	-3.05	-2.01	-1.18	-0.55	-0.22	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.27	2.27	2.27	2.17	1.86	1.55	1.24	0.93	0.62	0.31	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-H 8 #3@ 30 7-H

BEAM: H1(10-9) FLOOR: 6

Length: L = 4.21 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.31	-1.21	-2.70	-4.76	-7.38	-10.50	-14.14	-18.30	-22.98	-28.17
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.85	9.95	12.35
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.77	1.55	2.32	3.06	3.75	4.43	5.12	5.81	6.08	6.08
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-H1 14 #3@ 30 9-H1

BEAM: H1(9-8) FLOOR: 6

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-26.79	-17.51	-10.16	-5.08	-2.00	-1.17	-2.58	-6.12	-11.67	-19.12	-28.46
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	11.71	7.50	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.22	12.48
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	5.95	5.72	4.24	2.76	1.29	0.23	1.71	3.13	4.45	5.77	5.97
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-H1 26 #3@ 30 8-H1

BEAM: H1(8-7) FLOOR: 6

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-29.52	-23.96	-18.97	-14.55	-10.72	-7.48	-4.82	-2.74	-1.24	-0.33	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.97	10.40	8.15	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.48	6.48	6.19	5.41	4.64	3.87	3.09	2.32	1.55	0.77	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-H1 14 #3@ 30 7-H1

BEAM: I(10-9) FLOOR: 6

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 1.80 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.21	1.45	1.69	1.93	2.17	2.41
Mu(-), ton-m:	0.00	-0.22	-0.54	-1.19	-2.06	-3.15	-4.56	-6.07	-7.99	-10.07	-12.55
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.32	0.64	0.96	1.29	1.61	1.92	2.21	2.31	2.31	2.31
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-I 8 #3@ 30 9-I

BEAM: I(9-8) FLOOR: 6

Length: L = 8.07 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 8.07 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-46.69	-29.62	-15.07	-10.29	-10.29	-10.29	-10.29	-10.29	-18.63	-33.80	-51.47
Mu(+), ton-m:	15.56	13.32	17.14	17.96	16.19	13.08	14.88	15.52	13.57	10.29	17.16
As(-), cm2:	20.45	12.69	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.56	22.70
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.35	6.13	5.12	4.31	3.50	3.07	3.88	4.65	5.40	6.37	6.57
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-I 11 #3@ 15 15 #3@ 30 11 #3@ 15 8-I

BEAM: I(8-7) FLOOR: 6

Length: L = 4.21 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.45	-9.92	-7.84	-5.93	-4.45	-3.09	-2.04	-1.19	-0.55	-0.22	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.30	2.30	2.30	2.19	1.88	1.57	1.25	0.94	0.63	0.31	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-I 8 #3@ 30 7-I

BEAM: I1(10-9) FLOOR: 6

Length: L = 4.21 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.33	-1.27	-2.83	-4.99	-7.74	-11.01	-14.83	-19.19	-24.09	-29.54
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.24	10.46	12.98
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.81	1.62	2.43	3.20	3.93	4.65	5.37	6.09	6.37	6.37
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-I1 14 #3@ 30 9-I1

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:58 a.m. 05/08/2010

BEAM: I1(9-8) FLOOR: 6

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-28.23	-18.40	-10.60	-5.17	-1.84	-0.88	-2.27	-5.89	-11.61	-19.33	-29.02
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.37	7.89	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.31	12.74
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.30	6.06	4.51	2.96	1.41	0.19	1.73	3.22	4.60	5.98	6.19
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-I1 — 26 #3@ 30 — 8-I1

BEAM: I1(8-7) FLOOR: 6

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-30.07	-24.41	-19.32	-14.83	-10.92	-7.62	-4.91	-2.79	-1.26	-0.33	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.23	10.61	8.30	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.60	6.60	6.30	5.51	4.73	3.94	3.15	2.36	1.58	0.79	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-I1 — 14 #3@ 30 — 7-I1

BEAM: J(10-9) FLOOR: 6

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 1.80 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.21	1.45	1.69	1.93	2.17	2.41
Mu(-), ton-m:	0.00	-0.21	-0.53	-1.17	-2.02	-3.08	-4.46	-5.94	-7.82	-9.85	-12.28
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.31	0.63	0.94	1.26	1.57	1.88	2.17	2.26	2.26	2.26
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-J — 8 #3@ 30 — 9-J

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:58 a.m. 05/08/2010

BEAM: J(9-8) FLOOR: 6

Length: L = 8.07 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 8.07 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-48.00	-30.83	-16.12	-10.23	-10.23	-10.23	-10.23	-10.23	-18.70	-33.71	-51.16
Mu(+), ton-m:	16.00	13.69	17.27	17.92	16.02	12.91	15.04	16.13	14.69	10.81	17.05
As(-), cm2:	21.06	13.23	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.52	22.55
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.40	6.18	5.13	4.33	3.54	3.03	3.82	4.57	5.35	6.29	6.49
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-J — 11 #3@ 15 15 #3@ 30 11 #3@ 15 — 8-J

BEAM: J(8-7) FLOOR: 6

Length: L = 4.21 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.52	-9.97	-7.88	-5.96	-4.48	-3.10	-2.05	-1.20	-0.56	-0.23	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.31	2.31	2.31	2.20	1.89	1.57	1.26	0.94	0.63	0.31	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-J — 8 #3@ 30 — 7-J

BEAM: J1(10-9) FLOOR: 6

Length: L = 4.21 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.33	-1.27	-2.83	-4.99	-7.74	-11.01	-14.83	-19.19	-24.09	-29.54
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.24	10.46	12.98
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.81	1.62	2.43	3.20	3.93	4.65	5.37	6.09	6.37	6.37
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-J1 — 14 #3@ 30 — 9-J1

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:58 a.m. 05/08/2010

BEAM: J1(9-8) FLOOR: 6

	Length:	L = 8.07 m Lu = 7.57 m	a = 0.25 m c = 0.25 m	Section:	b = 30.0 cm h = 70.0 cm	Sec: Mat:	S30X70 RConcrete2			
X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-28.24	-18.50	-10.78	-5.43	-2.19	-1.32	-2.79	-6.49	-12.30	-20.10	-29.89
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.38	7.94	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.65	13.15
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.25	6.01	4.46	2.91	1.36	0.24	1.79	3.28	4.66	6.04	6.25
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-J1 — 26 #3@ 30 — 8-J1

BEAM: J1(8-7) FLOOR: 6

	Length:	L = 4.21 m Lu = 3.96 m	a = 0.25 m c = 0.00 m	Section:	b = 30.0 cm h = 70.0 cm	Sec: Mat:	S30X70 RConcrete2			
X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-30.96	-25.13	-19.89	-15.26	-11.25	-7.84	-5.05	-2.87	-1.30	-0.34	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.65	10.94	8.56	6.50	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.80	6.80	6.49	5.68	4.87	4.05	3.24	2.43	1.62	0.81	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-J1 — 14 #3@ 30 — 7-J1

BEAM: K(10-9) FLOOR: 6

	Length:	L = 4.21 m Lu = 2.41 m	a = 0.00 m c = 1.80 m	Section:	b = 50.0 cm h = 70.0 cm	Sec: Mat:	S50X70 RConcrete2			
X, m:	0.00	0.24	0.48	0.72	0.96	1.21	1.45	1.69	1.93	2.17	2.41
Mu(-), ton-m:	0.00	-0.22	-0.54	-1.19	-2.06	-3.15	-4.56	-6.07	-7.99	-10.07	-12.55
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.32	0.64	0.96	1.29	1.61	1.92	2.21	2.31	2.31	2.31
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-K — 8 #3@ 30 — 9-K

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:58 a.m. 05/08/2010

BEAM: K(9-8) FLOOR: 6

	Length:	L = 8.07 m Lu = 8.07 m	a = 0.00 m c = 0.00 m	Section:	b = 50.0 cm h = 70.0 cm	Sec: Mat:	S50X70 RConcrete2			
X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-50.20	-32.43	-17.17	-10.36	-10.36	-10.36	-10.36	-10.36	-18.84	-34.08	-51.81
Mu(+), ton-m:	16.73	13.60	17.35	18.10	16.26	13.20	15.58	16.93	15.68	11.95	17.27
As(-), cm2:	22.10	13.94	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.68	22.86
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.63	6.40	5.33	4.47	3.66	3.05	3.85	4.62	5.42	6.39	6.59
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-K — 11 #3@ 15 15 #3@ 30 11 #3@ 15 — 8-K

BEAM: K(8-7) FLOOR: 6

	Length:	L = 4.21 m Lu = 2.41 m	a = 1.80 m c = 0.00 m	Section:	b = 50.0 cm h = 70.0 cm	Sec: Mat:	S50X70 RConcrete2			
X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.79	-10.19	-8.05	-6.09	-4.57	-3.17	-2.09	-1.22	-0.57	-0.23	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.36	2.36	2.36	2.25	1.93	1.61	1.29	0.96	0.64	0.32	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-K — 8 #3@ 30 — 7-K

BEAM: K1(10-9) FLOOR: 6

	Length:	L = 4.21 m Lu = 3.96 m	a = 0.00 m c = 0.25 m	Section:	b = 30.0 cm h = 70.0 cm	Sec: Mat:	S30X70 RConcrete2			
X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.33	-1.27	-2.83	-4.99	-7.74	-11.01	-14.83	-19.19	-24.09	-29.54
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.24	10.46	12.98
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.81	1.62	2.43	3.20	3.93	4.65	5.37	6.09	6.37	6.37
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-K1 — 14 #3@ 30 — 9-K1

BEAM: K1(9-8) FLOOR: 6

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-28.32	-18.56	-10.83	-5.47	-2.22	-1.33	-2.78	-6.48	-12.27	-20.06	-29.83
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.41	7.96	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.63	13.12
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.26	6.02	4.47	2.92	1.37	0.23	1.78	3.27	4.65	6.03	6.24
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-K1 26 #3@ 30 8-K1

BEAM: K1(8-7) FLOOR: 6

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-30.96	-25.13	-19.89	-15.26	-11.25	-7.84	-5.05	-2.87	-1.30	-0.34	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.65	10.94	8.56	6.50	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.80	6.80	6.49	5.68	4.87	4.05	3.24	2.43	1.62	0.81	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-K1 14 #3@ 30 7-K1

BEAM: L(10-9) FLOOR: 6

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 1.80 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.21	1.45	1.69	1.93	2.17	2.41
Mu(-), ton-m:	0.00	-0.22	-0.54	-1.19	-2.06	-3.14	-4.55	-6.06	-7.98	-10.05	-12.54
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.32	0.64	0.96	1.29	1.61	1.92	2.21	2.31	2.31	2.31
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-L 8 #3@ 30 9-L

BEAM: L(9-8) FLOOR: 6

Length: L = 8.07 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 6.27 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.43	3.05	3.68	4.31	4.93	5.56	6.19	6.81	7.44	8.07
Mu(-), ton-m:	-60.60	-43.28	-28.44	-15.25	-12.12	-12.12	-12.12	-12.46	-24.29	-37.51	-52.11
Mu(+), ton-m:	24.87	25.12	22.89	19.00	14.15	12.12	15.42	21.58	26.82	30.67	33.14
As(-), cm2:	27.07	18.87	12.16	10.71	10.71	10.71	10.71	10.71	10.71	16.23	23.00
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.45	13.16	14.26
vu, Kg/cm2:	7.87	7.87	7.06	6.22	5.71	5.30	5.57	6.14	6.70	7.25	7.25
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-L 11 #3@ 15 9 #3@ 30 11 #3@ 15 8-L

BEAM: L(8-7) FLOOR: 6

Length: L = 4.21 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.79	-10.19	-8.05	-6.09	-4.57	-3.17	-2.09	-1.22	-0.57	-0.23	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.36	2.36	2.36	2.25	1.93	1.61	1.29	0.96	0.64	0.32	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-L 8 #3@ 30 7-L

BEAM: L1(10-9) FLOOR: 6

Length: L = 4.21 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.19	-0.72	-1.59	-2.82	-4.37	-6.22	-8.39	-10.87	-13.65	-16.75
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.16
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.46	0.91	1.37	1.81	2.22	2.64	3.05	3.46	3.62	3.62
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-L1 14 #3@ 30 9-L1

BEAM: L1(9-8) FLOOR: 6

Length:	L = 8.07 m		a = 0.25 m	Section:	b = 30.0 cm		Sec:	S30X70		
	Lu = 7.57 m		c = 0.25 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-16.56	-11.03	-6.64	-3.59	-1.72	-1.19	-2.00	-4.07	-7.34	-11.75	-17.29
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	7.08	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.40
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	3.55	3.41	2.54	1.67	0.79	0.12	0.99	1.84	2.63	3.42	3.54
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-L1 — 26 #3@ 30 — 8-L1

BEAM: L1(8-7) FLOOR: 6

Length:	L = 4.21 m		a = 0.25 m	Section:	b = 30.0 cm		Sec:	S30X70		
	Lu = 3.96 m		c = 0.00 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-17.46	-14.18	-11.22	-8.61	-6.34	-4.42	-2.85	-1.62	-0.73	-0.19	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	7.47	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	3.83	3.83	3.66	3.20	2.74	2.29	1.83	1.37	0.91	0.46	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-L1 — 14 #3@ 30 — 7-L1

BEAM: B'(10-9) FLOOR: 7

Length:	L = 4.21 m		a = 0.00 m	Section:	b = 30.0 cm		Sec:	S30X70		
	Lu = 3.96 m		c = 0.25 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.19	-0.72	-1.61	-2.85	-4.42	-6.29	-8.48	-10.98	-13.79	-16.92
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.24
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.46	0.92	1.39	1.83	2.25	2.66	3.08	3.50	3.66	3.66
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-B' — 14 #3@ 30 — 9-B'

BEAM: B'(9-8) FLOOR: 7

Length:	L = 8.07 m		a = 0.25 m	Section:	b = 30.0 cm		Sec:	S30X70		
	Lu = 7.57 m		c = 0.25 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-16.69	-11.11	-6.69	-3.61	-1.74	-1.21	-2.03	-4.13	-7.44	-11.91	-17.51
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	7.13	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.50
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	3.58	3.44	2.56	1.68	0.79	0.13	1.01	1.86	2.66	3.46	3.58
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-B' — 26 #3@ 30 — 8-B'

BEAM: B'(8-7) FLOOR: 7

Length:	L = 4.21 m		a = 0.25 m	Section:	b = 30.0 cm		Sec:	S30X70		
	Lu = 3.96 m		c = 0.00 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-17.64	-14.32	-11.34	-8.70	-6.41	-4.47	-2.88	-1.64	-0.74	-0.20	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	7.55	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	3.87	3.87	3.70	3.23	2.77	2.31	1.85	1.39	0.92	0.46	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-B' — 14 #3@ 30 — 7-B'

BEAM: C(10-9) FLOOR: 7

Length:	L = 4.21 m		a = 0.00 m	Section:	b = 50.0 cm		Sec:	S50X70		
	Lu = 2.41 m		c = 1.80 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.00	0.24	0.48	0.72	0.96	1.21	1.45	1.69	1.93	2.17	2.41
Mu(-), ton-m:	0.00	-0.22	-0.55	-1.20	-2.07	-3.16	-4.58	-6.10	-8.03	-10.11	-12.60
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.32	0.65	0.97	1.29	1.62	1.93	2.22	2.32	2.32	2.32
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-C — 8 #3@ 30 — 9-C

BEAM: C(9-8) FLOOR: 7

Length: L = 8.07 m, Lu = 6.27 m; a = 1.80 m, c = 0.00 m; Section: b = 50.0 cm, h = 70.0 cm; Sec: S50X70; Mat: RConcrete2

X, m:	1.80	2.43	3.05	3.68	4.31	4.93	5.56	6.19	6.81	7.44	8.07
Mu(-), ton-m:	-54.47	-38.36	-24.73	-12.77	-11.03	-11.03	-11.03	-13.58	-26.05	-39.92	-55.17
Mu(+), ton-m:	27.98	27.65	24.83	20.35	14.86	11.03	14.15	19.06	23.02	25.60	26.78
As(-), cm2:	24.12	16.62	10.71	10.71	10.71	10.71	10.71	10.71	11.11	17.33	24.46
As(+), cm2:	11.96	11.81	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.91	11.43
vu, Kg/cm2:	7.27	7.27	6.45	5.60	4.80	4.85	5.34	5.90	6.58	7.33	7.33
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-C — 11 #3@ 15 9 #3@ 30 11 #3@ 15 — 8-C

BEAM: C(8-7) FLOOR: 7

Length: L = 4.21 m, Lu = 2.41 m; a = 1.80 m, c = 0.00 m; Section: b = 50.0 cm, h = 70.0 cm; Sec: S50X70; Mat: RConcrete2

X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.86	-10.24	-8.09	-6.12	-4.60	-3.19	-2.10	-1.23	-0.57	-0.23	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.38	2.38	2.38	2.26	1.94	1.62	1.29	0.97	0.65	0.32	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-C — 8 #3@ 30 — 7-C

BEAM: C1(10-9) FLOOR: 7

Length: L = 4.21 m, Lu = 3.96 m; a = 0.00 m, c = 0.25 m; Section: b = 30.0 cm, h = 70.0 cm; Sec: S30X70; Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.33	-1.27	-2.83	-4.99	-7.74	-11.01	-14.83	-19.19	-24.09	-29.54
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.24	10.46	12.98
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.81	1.62	2.43	3.20	3.93	4.65	5.37	6.09	6.37	6.37
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-C1 — 14 #3@ 30 — 9-C1

BEAM: C1(9-8) FLOOR: 7

Length: L = 8.07 m, Lu = 7.57 m; a = 0.25 m, c = 0.25 m; Section: b = 30.0 cm, h = 70.0 cm; Sec: S30X70; Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-28.19	-18.46	-10.75	-5.42	-2.19	-1.32	-2.80	-6.52	-12.33	-20.14	-29.93
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.35	7.92	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.67	13.17
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.24	6.00	4.45	2.90	1.35	0.24	1.79	3.28	4.66	6.04	6.26
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-C1 — 26 #3@ 30 — 8-C1

BEAM: C1(8-7) FLOOR: 7

Length: L = 4.21 m, Lu = 3.96 m; a = 0.25 m, c = 0.00 m; Section: b = 30.0 cm, h = 70.0 cm; Sec: S30X70; Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-30.96	-25.13	-19.89	-15.26	-11.25	-7.84	-5.05	-2.87	-1.30	-0.34	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.65	10.94	8.56	6.50	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.80	6.80	6.49	5.68	4.87	4.05	3.24	2.43	1.62	0.81	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-C1 — 14 #3@ 30 — 7-C1

BEAM: D(10-9) FLOOR: 7

Length: L = 4.21 m, Lu = 2.41 m; a = 0.00 m, c = 1.80 m; Section: b = 50.0 cm, h = 70.0 cm; Sec: S50X70; Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.21	1.45	1.69	1.93	2.17	2.41
Mu(-), ton-m:	0.00	-0.22	-0.54	-1.19	-2.06	-3.15	-4.56	-6.07	-7.99	-10.07	-12.55
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.32	0.64	0.96	1.29	1.61	1.92	2.21	2.31	2.31	2.31
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-D — 8 #3@ 30 — 9-D

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:58 a.m. 05/08/2010

BEAM: D(9-8) FLOOR: 7

Length: L = 8.07 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 8.07 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-42.78	-26.48	-12.70	-10.55	-10.55	-10.55	-10.55	-10.55	-19.37	-34.80	-52.73
Mu(+), ton-m:	14.26	14.42	17.97	18.53	16.50	13.05	14.15	14.02	11.30	10.55	17.58
As(-), cm2:	18.64	11.30	10.71	10.71	10.71	10.71	10.71	10.71	10.71	15.01	23.29
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.06	5.83	4.97	4.16	3.35	3.22	4.03	4.80	5.52	6.47	6.67
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-D 11 #3@ 15 15 #3@ 30 11 #3@ 15 8-D

BEAM: D(8-7) FLOOR: 7

Length: L = 4.21 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.79	-10.19	-8.05	-6.09	-4.57	-3.17	-2.09	-1.22	-0.57	-0.23	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.36	2.36	2.36	2.25	1.93	1.61	1.29	0.96	0.64	0.32	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-D 8 #3@ 30 7-D

BEAM: D1(10-9) FLOOR: 7

Length: L = 4.21 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.33	-1.27	-2.83	-4.99	-7.74	-11.01	-14.83	-19.19	-24.09	-29.54
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.24	10.46	12.98
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.81	1.62	2.43	3.20	3.93	4.65	5.37	6.09	6.37	6.37
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-D1 14 #3@ 30 9-D1

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:58 a.m. 05/08/2010

BEAM: D1(9-8) FLOOR: 7

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-28.11	-18.39	-10.70	-5.38	-2.16	-1.31	-2.80	-6.53	-12.35	-20.17	-29.97
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.32	7.89	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.69	13.19
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.23	5.99	4.44	2.89	1.34	0.25	1.80	3.29	4.67	6.05	6.26
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-D1 26 #3@ 30 8-D1

BEAM: D1(8-7) FLOOR: 7

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-30.96	-25.13	-19.89	-15.26	-11.25	-7.84	-5.05	-2.87	-1.30	-0.34	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.65	10.94	8.56	6.50	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.80	6.80	6.49	5.68	4.87	4.05	3.24	2.43	1.62	0.81	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-D1 14 #3@ 30 7-D1

BEAM: E(10-9) FLOOR: 7

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 1.80 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.21	1.45	1.69	1.93	2.17	2.41
Mu(-), ton-m:	0.00	-0.22	-0.54	-1.19	-2.06	-3.15	-4.56	-6.07	-7.99	-10.07	-12.55
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.32	0.64	0.96	1.29	1.61	1.92	2.21	2.31	2.31	2.31
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-E 8 #3@ 30 9-E

BEAM: E(9-8) FLOOR: 7

Length: L = 8.07 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 8.07 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-41.52	-25.47	-11.94	-10.11	-10.11	-10.11	-10.11	-10.11	-18.06	-33.06	-50.56
Mu(+), ton-m:	13.84	12.69	16.69	17.68	16.08	12.96	13.90	13.52	10.55	10.11	16.85
As(-), cm2:	18.06	10.85	10.71	10.71	10.71	10.71	10.71	10.71	10.71	14.22	22.27
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.96	5.74	4.88	4.07	3.27	3.08	3.89	4.66	5.38	6.30	6.50
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-E 11 #3@ 15 15 #3@ 30 11 #3@ 15 8-E

BEAM: E(8-7) FLOOR: 7

Length: L = 4.21 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.79	-10.19	-8.05	-6.09	-4.57	-3.17	-2.09	-1.22	-0.57	-0.23	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.36	2.36	2.36	2.25	1.93	1.61	1.29	0.96	0.64	0.32	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-E 8 #3@ 30 7-E

BEAM: E'(10-9) FLOOR: 7

Length: L = 4.21 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.33	-1.27	-2.83	-4.99	-7.74	-11.01	-14.83	-19.19	-24.09	-29.54
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.24	10.46	12.98
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.81	1.62	2.43	3.20	3.93	4.65	5.37	6.09	6.37	6.37
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-E' 14 #3@ 30 9-E'

BEAM: E'(9-8) FLOOR: 7

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-28.19	-18.47	-10.78	-5.45	-2.24	-1.39	-2.86	-6.58	-12.39	-20.20	-29.98
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.35	7.92	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.70	13.19
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.23	5.99	4.44	2.89	1.34	0.24	1.79	3.28	4.66	6.04	6.25
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-E' 26 #3@ 30 8-E'

BEAM: E'(8-7) FLOOR: 7

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-30.96	-25.13	-19.89	-15.26	-11.25	-7.84	-5.05	-2.87	-1.30	-0.34	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.65	10.94	8.56	6.50	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.80	6.80	6.49	5.68	4.87	4.05	3.24	2.43	1.62	0.81	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-E' 14 #3@ 30 7-E'

BEAM: F(10-9') FLOOR: 7

Length: L = 1.41 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 1.01 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.10	0.20	0.30	0.40	0.50	0.61	0.71	0.81	0.91	1.01
Mu(-), ton-m:	0.00	-0.03	-0.08	-0.16	-0.28	-0.44	-0.63	-0.84	-1.11	-1.41	-1.74
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.11	0.21	0.32	0.43	0.53	0.64	0.39	0.39	0.39	0.39
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-F 4 #3@ 30 9'-F

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:59 a.m. 05/08/2010

BEAM: F(9'-9) FLOOR: 7

Length: L = 2.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.40 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.20	1.44	1.68	1.92	2.16	2.40
Mu(-), ton-m:	-22.08	-17.48	-12.92	-8.41	-4.42	-4.42	-4.42	-6.80	-10.16	-13.57	-17.03
Mu(+), ton-m:	15.34	12.32	9.25	6.13	4.42	4.42	4.86	9.19	13.45	17.68	21.85
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.05	7.05	7.05	7.04	7.00	6.96	6.92	6.87	6.86	6.86	6.86
Tu, ton-m:	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F 16 #3@ 15 9-F

BEAM: F(9-8') FLOOR: 7

Length: L = 5.27 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 4.87 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.49	0.97	1.46	1.95	2.44	2.92	3.41	3.90	4.38	4.87
Mu(-), ton-m:	-41.98	-31.49	-21.80	-12.90	-11.77	-11.77	-11.77	-19.36	-31.74	-44.92	-58.87
Mu(+), ton-m:	45.19	38.34	30.70	22.27	13.05	11.77	11.77	14.80	19.75	23.91	27.29
As(-), cm2:	18.27	13.52	10.71	10.71	10.71	10.71	10.71	10.71	13.63	19.63	26.23
As(+), cm2:	19.75	16.61	13.17	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.66
vu, Kg/cm2:	8.05	8.05	7.80	7.46	7.75	8.10	8.46	8.82	9.17	9.42	9.42
Tu, ton-m:	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-F 11 #3@ 15 5 #3@ 30 11 #3@ 15 8'-F

BEAM: F(8'-8) FLOOR: 7

Length: L = 2.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.40 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.20	1.44	1.68	1.92	2.16	2.40
Mu(-), ton-m:	-19.77	-15.90	-12.07	-8.28	-4.77	-4.77	-4.77	-9.25	-14.07	-18.93	-23.85
Mu(+), ton-m:	23.06	18.58	14.06	9.49	4.87	4.77	4.77	6.39	9.93	13.42	16.86
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.16	7.16	7.16	7.17	7.21	7.25	7.29	7.33	7.35	7.35	7.35
Tu, ton-m:	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F 16 #3@ 15 8-F

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:59 a.m. 05/08/2010

BEAM: F(8-7) FLOOR: 7

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 4.21 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.42	0.84	1.26	1.68	2.11	2.53	2.95	3.37	3.79	4.21
Mu(-), ton-m:	-29.92	-24.24	-19.15	-14.66	-10.77	-7.48	-4.79	-2.69	-1.20	-0.30	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.82	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	3.77	3.77	3.55	3.11	2.67	2.22	1.78	1.33	0.89	0.44	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-F 14 #3@ 30 7-F

BEAM: F1(10-9') FLOOR: 7

Length: L = 1.41 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 1.16 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.12	0.23	0.35	0.46	0.58	0.70	0.81	0.93	1.04	1.16
Mu(-), ton-m:	0.00	-0.02	-0.07	-0.14	-0.24	-0.37	-0.54	-0.73	-0.96	-1.21	-1.49
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	0.00	0.16	0.32	0.48	0.64	0.80	0.72	0.72	0.72	0.72	0.72
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-F1 5 #3@ 30 9'-F1

BEAM: F1(9'-9) FLOOR: 7

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.77	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-8.83	-6.95	-5.10	-3.27	-1.77	-1.77	-1.77	-3.09	-4.59	-6.13	-7.69
Mu(+), ton-m:	6.71	5.39	4.05	2.67	1.77	1.77	2.06	3.78	5.47	7.14	8.78
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	5.23	5.23	5.23	5.21	5.16	5.12	5.07	5.02	5.00	5.00	5.00
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F1 17 #3@ 15 9-F1

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:59 a.m. 05/08/2010

BEAM: F1(9-8') FLOOR: 7

Length: L = 5.27 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 5.02 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.50	1.00	1.51	2.01	2.51	3.01	3.51	4.02	4.52	5.02
Mu(-), ton-m:	-22.25	-16.30	-10.91	-6.06	-6.05	-6.05	-6.05	-9.20	-15.67	-22.70	-30.24
Mu(+), ton-m:	20.63	18.03	14.87	11.16	6.90	6.05	6.05	7.79	9.88	11.41	12.42
As(-), cm2:	9.72	7.01	5.36	5.36	5.36	5.36	5.36	5.36	6.73	9.93	13.50
As(+), cm2:	8.97	7.79	6.37	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	8.25	8.25	7.90	7.40	7.17	7.66	8.15	8.65	9.14	9.50	9.50
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-F1 11 #3@ 15 5 #3@ 30 11 #3@ 15 8'-F1

BEAM: F1(8'-8) FLOOR: 7

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.76	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-7.11	-5.71	-4.34	-2.99	-2.15	-2.15	-2.15	-4.13	-6.31	-8.51	-10.74
Mu(+), ton-m:	10.37	8.38	6.36	4.32	2.25	2.15	2.15	2.15	3.33	4.51	5.67
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	6.38	6.38	6.38	6.40	6.45	6.49	6.54	6.58	6.61	6.61	6.61
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F1 17 #3@ 15 8-F1

BEAM: F1(8-7) FLOOR: 7

Length: L = 4.21 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 4.21 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.42	0.84	1.26	1.68	2.11	2.53	2.95	3.37	3.79	4.21
Mu(-), ton-m:	-19.52	-15.81	-12.49	-9.56	-7.03	-4.88	-3.12	-1.76	-0.78	-0.20	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	8.46	6.79	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	4.91	4.91	4.64	4.06	3.48	2.90	2.32	1.74	1.16	0.58	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-F1 14 #3@ 30 7-F1

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:59 a.m. 05/08/2010

BEAM: F2(10-9') FLOOR: 7

Length: L = 1.41 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 1.16 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.12	0.23	0.35	0.46	0.58	0.70	0.81	0.93	1.04	1.16
Mu(-), ton-m:	0.00	-0.02	-0.07	-0.15	-0.26	-0.40	-0.57	-0.78	-1.02	-1.28	-1.58
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	0.00	0.17	0.34	0.51	0.68	0.85	0.76	0.76	0.76	0.76	0.76
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-F2 5 #3@ 30 9'-F2

BEAM: F2(9'-9) FLOOR: 7

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.77	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-7.11	-5.57	-4.06	-2.57	-1.42	-1.42	-1.42	-2.65	-3.92	-5.23	-6.55
Mu(+), ton-m:	5.53	4.44	3.33	2.19	1.42	1.42	1.72	3.10	4.45	5.77	7.07
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	4.19	4.19	4.19	4.17	4.12	4.08	4.03	3.98	3.96	3.96	3.96
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F2 17 #3@ 15 9-F2

BEAM: F2(9-8') FLOOR: 7

Length: L = 5.27 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 5.02 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.50	1.00	1.51	2.01	2.51	3.01	3.51	4.02	4.52	5.02
Mu(-), ton-m:	-22.42	-16.34	-10.85	-5.99	-5.99	-5.99	-5.99	-8.90	-15.35	-22.38	-29.95
Mu(+), ton-m:	19.77	17.43	14.51	11.00	6.90	5.99	5.99	7.80	9.77	11.15	11.99
As(-), cm2:	9.80	7.03	5.36	5.36	5.36	5.36	5.36	5.36	6.58	9.78	13.37
As(+), cm2:	8.58	7.52	6.21	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	8.26	8.26	7.88	7.35	6.93	7.45	7.98	8.50	9.02	9.40	9.40
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-F2 11 #3@ 15 5 #3@ 30 11 #3@ 15 8'-F2

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:59 a.m. 05/08/2010

BEAM: F2(8'-8) FLOOR: 7

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.76	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-5.85	-4.70	-3.59	-2.50	-1.79	-1.79	-1.79	-3.40	-5.21	-7.06	-8.93
Mu(+), ton-m:	8.59	6.96	5.30	3.61	1.90	1.79	1.79	1.79	2.55	3.48	4.38
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	5.31	5.31	5.31	5.33	5.37	5.42	5.46	5.51	5.53	5.53	5.53
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F2 17 #3@ 15 8-F2

BEAM: F2(8-7) FLOOR: 7

Length: L = 4.21 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 4.21 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.42	0.84	1.26	1.68	2.11	2.53	2.95	3.37	3.79	4.21
Mu(-), ton-m:	-20.73	-16.79	-13.27	-10.16	-7.46	-5.18	-3.32	-1.87	-0.83	-0.21	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	9.02	7.23	5.66	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	5.22	5.22	4.92	4.31	3.69	3.08	2.46	1.85	1.23	0.62	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-F2 14 #3@ 30 7-F2

BEAM: F3(10-9') FLOOR: 7

Length: L = 1.41 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 1.16 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.12	0.23	0.35	0.46	0.58	0.70	0.81	0.93	1.04	1.16
Mu(-), ton-m:	0.00	-0.02	-0.07	-0.15	-0.26	-0.41	-0.58	-0.79	-1.04	-1.31	-1.62
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	0.00	0.17	0.35	0.52	0.69	0.86	0.78	0.78	0.78	0.78	0.78
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-F3 5 #3@ 30 9'-F3

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:59 a.m. 05/08/2010

BEAM: F3(9'-9) FLOOR: 7

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.77	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-7.84	-6.16	-4.51	-2.89	-1.57	-1.57	-1.57	-2.82	-4.21	-5.62	-7.06
Mu(+), ton-m:	6.14	4.94	3.72	2.46	1.57	1.57	1.82	3.34	4.83	6.29	7.73
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	4.59	4.59	4.59	4.57	4.53	4.48	4.43	4.39	4.37	4.37	4.37
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-F3 17 #3@ 15 9-F3

BEAM: F3(9-8') FLOOR: 7

Length: L = 5.27 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 5.02 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.50	1.00	1.51	2.01	2.51	3.01	3.51	4.02	4.52	5.02
Mu(-), ton-m:	-20.92	-15.11	-9.90	-5.55	-5.55	-5.55	-5.55	-7.97	-13.98	-20.58	-27.75
Mu(+), ton-m:	17.33	15.51	13.09	10.08	6.46	5.55	5.55	7.19	8.82	9.84	10.31
As(-), cm2:	9.11	6.48	5.36	5.36	5.36	5.36	5.36	5.36	5.97	8.95	12.31
As(+), cm2:	7.47	6.66	5.58	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	7.73	7.73	7.34	6.80	6.30	6.74	7.27	7.81	8.34	8.73	8.73
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-F3 11 #3@ 15 5 #3@ 30 11 #3@ 15 8'-F3

BEAM: F3(8'-8) FLOOR: 7

Length: L = 2.80 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 2.55 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.26	0.51	0.76	1.02	1.28	1.53	1.79	2.04	2.30	2.55
Mu(-), ton-m:	-5.55	-4.46	-3.39	-2.35	-2.08	-2.08	-2.08	-4.01	-6.12	-8.26	-10.42
Mu(+), ton-m:	9.99	8.07	6.13	4.15	2.15	2.08	2.08	2.08	2.45	3.33	4.19
As(-), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	6.40	6.40	6.40	6.43	6.47	6.52	6.56	6.61	6.63	6.63	6.63
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-F3 17 #3@ 15 8-F3

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:59 a.m. 05/08/2010

BEAM: F3(8-7) FLOOR: 7

Length: L = 4.21 m a = 0.00 m Section: b = 25.0 cm Sec: S25X70
Lu = 4.21 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.42	0.84	1.26	1.68	2.11	2.53	2.95	3.37	3.79	4.21
Mu(-), ton-m:	-21.14	-17.12	-13.53	-10.36	-7.61	-5.28	-3.38	-1.90	-0.85	-0.21	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	9.20	7.38	5.78	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
As(+), cm2:	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36	5.36
vu, Kg/cm2:	5.32	5.32	5.02	4.39	3.77	3.14	2.51	1.88	1.26	0.63	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-F3 14 #3@ 30 7-F3

BEAM: G(10-9') FLOOR: 7

Length: L = 1.41 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 1.01 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.10	0.20	0.30	0.40	0.50	0.61	0.71	0.81	0.91	1.01
Mu(-), ton-m:	0.00	-0.03	-0.08	-0.17	-0.29	-0.46	-0.65	-0.87	-1.15	-1.45	-1.80
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.11	0.22	0.33	0.44	0.55	0.66	0.40	0.40	0.40	0.40
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-G 4 #3@ 30 9'-G

BEAM: G(9'-9) FLOOR: 7

Length: L = 2.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.40 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.20	1.44	1.68	1.92	2.16	2.40
Mu(-), ton-m:	-18.23	-14.40	-10.62	-6.89	-3.65	-3.65	-3.65	-5.99	-8.97	-12.00	-15.07
Mu(+), ton-m:	13.46	10.82	8.13	5.40	3.65	3.65	4.05	7.60	11.09	14.53	17.92
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.73	5.73	5.73	5.72	5.68	5.64	5.60	5.56	5.54	5.54	5.54
Tu, ton-m:	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

9'-G 16 #3@ 15 9-G

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:59 a.m. 05/08/2010

BEAM: G(9-8') FLOOR: 7

Length: L = 5.27 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 4.87 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.49	0.97	1.46	1.95	2.44	2.92	3.41	3.90	4.38	4.87
Mu(-), ton-m:	-37.22	-27.61	-18.82	-10.85	-10.02	-10.02	-10.02	-15.76	-26.40	-37.85	-50.11
Mu(+), ton-m:	35.81	30.90	25.16	18.61	11.25	10.02	10.02	12.87	16.76	19.83	22.09
As(-), cm2:	16.10	11.80	10.71	10.71	10.71	10.71	10.71	10.71	11.26	16.39	22.06
As(+), cm2:	15.46	13.26	10.72	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	7.00	7.00	6.75	6.38	6.24	6.61	6.98	7.34	7.71	7.97	7.97
Tu, ton-m:	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00

DESIGN

9-G 11 #3@ 15 5 #3@ 30 11 #3@ 15 8'-G

BEAM: G(8'-8) FLOOR: 7

Length: L = 2.80 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.40 m c = 0.40 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.20	1.44	1.68	1.92	2.16	2.40
Mu(-), ton-m:	-15.09	-12.14	-9.22	-6.36	-4.39	-4.39	-4.39	-8.52	-12.94	-17.41	-21.93
Mu(+), ton-m:	21.05	16.96	12.83	8.65	4.43	4.39	4.39	4.65	7.27	9.84	12.36
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.85	6.85	6.85	6.86	6.90	6.94	6.98	7.02	7.03	7.03	7.03
Tu, ton-m:	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00

DESIGN

8'-G 16 #3@ 15 8-G

BEAM: G(8-7) FLOOR: 7

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 4.21 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.42	0.84	1.26	1.68	2.11	2.53	2.95	3.37	3.79	4.21
Mu(-), ton-m:	-30.93	-25.06	-19.80	-15.16	-11.14	-7.73	-4.95	-2.78	-1.24	-0.31	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.27	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	3.89	3.89	3.67	3.21	2.76	2.30	1.84	1.38	0.92	0.46	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-G 14 #3@ 30 7-G

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:59 a.m. 05/08/2010

BEAM: G'(10-9) FLOOR: 7

Length: L = 4.21 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.32	-1.23	-2.73	-4.82	-7.47	-10.62	-14.32	-18.52	-23.25	-28.51
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.95	10.08	12.51
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.78	1.57	2.35	3.09	3.79	4.49	5.19	5.88	6.15	6.15
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

BEAM: G'(9-8) FLOOR: 7

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-27.17	-17.78	-10.36	-5.21	-2.11	-1.28	-2.70	-6.28	-11.88	-19.41	-28.86
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	11.88	7.62	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.35	12.67
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.01	5.78	4.29	2.79	1.30	0.23	1.72	3.16	4.49	5.83	6.03
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

BEAM: G'(8-7) FLOOR: 7

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-29.88	-24.26	-19.20	-14.73	-10.86	-7.57	-4.87	-2.77	-1.26	-0.33	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.14	10.54	8.25	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.56	6.56	6.26	5.48	4.70	3.91	3.13	2.35	1.57	0.78	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:59 a.m. 05/08/2010

BEAM: H(10-9) FLOOR: 7

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 1.80 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.21	1.45	1.69	1.93	2.17	2.41
Mu(-), ton-m:	0.00	-0.21	-0.52	-1.15	-1.99	-3.03	-4.39	-5.85	-7.69	-9.69	-12.08
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.31	0.62	0.93	1.24	1.55	1.85	2.13	2.23	2.23	2.23
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

BEAM: H(9-8) FLOOR: 7

Length: L = 8.07 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 8.07 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-40.88	-25.25	-12.05	-9.52	-9.52	-9.52	-9.52	-9.52	-16.72	-30.95	-47.58
Mu(+), ton-m:	13.63	11.35	15.41	16.58	15.27	12.47	13.57	13.39	10.71	9.52	15.86
As(-), cm2:	17.77	10.76	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.28	20.87
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	5.81	5.59	4.72	3.95	3.17	2.88	3.65	4.39	5.09	5.98	6.17
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

BEAM: H(8-7) FLOOR: 7

Length: L = 4.21 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.31	-9.80	-7.75	-5.86	-4.40	-3.05	-2.01	-1.18	-0.55	-0.22	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.27	2.27	2.27	2.17	1.86	1.55	1.24	0.93	0.62	0.31	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

BEAM: H1(10-9) FLOOR: 7

Length: L = 4.21 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.31	-1.21	-2.70	-4.76	-7.38	-10.50	-14.14	-18.30	-22.98	-28.17
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.85	9.95	12.35
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.77	1.55	2.32	3.06	3.75	4.43	5.12	5.81	6.08	6.08
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-H1 14 #3@ 30 9-H1

BEAM: H1(9-8) FLOOR: 7

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-26.78	-17.50	-10.15	-5.07	-1.99	-1.16	-2.57	-6.11	-11.66	-19.11	-28.45
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	11.70	7.49	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.21	12.47
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	5.95	5.72	4.24	2.76	1.28	0.23	1.71	3.13	4.45	5.76	5.97
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-H1 26 #3@ 30 8-H1

BEAM: H1(8-7) FLOOR: 7

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-29.52	-23.96	-18.97	-14.55	-10.72	-7.48	-4.82	-2.74	-1.24	-0.33	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.97	10.40	8.15	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.48	6.48	6.19	5.41	4.64	3.87	3.09	2.32	1.55	0.77	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-H1 14 #3@ 30 7-H1

BEAM: I(10-9) FLOOR: 7

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 1.80 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.21	1.45	1.69	1.93	2.17	2.41
Mu(-), ton-m:	0.00	-0.22	-0.54	-1.19	-2.06	-3.15	-4.56	-6.07	-7.99	-10.07	-12.55
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.32	0.64	0.96	1.29	1.61	1.92	2.21	2.31	2.31	2.31
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-I 8 #3@ 30 9-I

BEAM: I(9-8) FLOOR: 7

Length: L = 8.07 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 8.07 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-44.41	-27.79	-13.68	-9.86	-9.86	-9.86	-9.86	-9.86	-17.30	-32.04	-49.28
Mu(+), ton-m:	14.80	11.65	15.90	17.15	15.81	13.00	14.48	14.67	12.28	9.86	16.43
As(-), cm2:	19.40	11.88	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.77	21.66
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.18	5.96	4.99	4.18	3.37	2.95	3.76	4.52	5.25	6.20	6.40
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-I 11 #3@ 15 15 #3@ 30 11 #3@ 15 8-I

BEAM: I(8-7) FLOOR: 7

Length: L = 4.21 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.45	-9.92	-7.84	-5.93	-4.45	-3.09	-2.04	-1.19	-0.55	-0.22	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.30	2.30	2.30	2.19	1.88	1.57	1.25	0.94	0.63	0.31	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-I 8 #3@ 30 7-I

BEAM: I1(10-9) FLOOR: 7

Length: L = 4.21 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.33	-1.27	-2.83	-4.99	-7.74	-11.01	-14.83	-19.19	-24.09	-29.54
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.24	10.46	12.98
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.81	1.62	2.43	3.20	3.93	4.65	5.37	6.09	6.37	6.37
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-I1 14 #3@ 30 9-I1

BEAM: I1(9-8) FLOOR: 7

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-28.21	-18.38	-10.58	-5.16	-1.83	-0.88	-2.26	-5.88	-11.60	-19.31	-29.01
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.36	7.88	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.30	12.74
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.30	6.06	4.51	2.96	1.41	0.19	1.73	3.22	4.60	5.98	6.19
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-I1 26 #3@ 30 8-I1

BEAM: I1(8-7) FLOOR: 7

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-30.07	-24.41	-19.32	-14.83	-10.92	-7.62	-4.91	-2.79	-1.26	-0.33	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.23	10.61	8.30	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.60	6.60	6.30	5.51	4.73	3.94	3.15	2.36	1.58	0.79	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-I1 14 #3@ 30 7-I1

BEAM: J(10-9) FLOOR: 7

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 1.80 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.21	1.45	1.69	1.93	2.17	2.41
Mu(-), ton-m:	0.00	-0.21	-0.53	-1.17	-2.02	-3.08	-4.46	-5.94	-7.82	-9.85	-12.28
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.31	0.63	0.94	1.26	1.57	1.88	2.17	2.26	2.26	2.26
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-J 8 #3@ 30 9-J

BEAM: J(9-8) FLOOR: 7

Length: L = 8.07 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 8.07 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-45.61	-28.90	-14.67	-9.79	-9.79	-9.79	-9.79	-9.79	-17.35	-31.93	-48.95
Mu(+), ton-m:	15.20	12.01	16.02	17.10	15.64	12.83	14.62	15.24	13.33	9.79	16.32
As(-), cm2:	19.95	12.37	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.72	21.51
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.22	6.00	4.98	4.20	3.41	2.91	3.70	4.45	5.18	6.13	6.32
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN

9-J 11 #3@ 15 15 #3@ 30 11 #3@ 15 8-J

BEAM: J(8-7) FLOOR: 7

Length: L = 4.21 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.52	-9.97	-7.88	-5.96	-4.48	-3.10	-2.05	-1.20	-0.56	-0.23	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.31	2.31	2.31	2.20	1.89	1.57	1.26	0.94	0.63	0.31	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-J 8 #3@ 30 7-J

BEAM: J1(10-9) FLOOR: 7

Length: L = 4.21 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.33	-1.27	-2.83	-4.99	-7.74	-11.01	-14.83	-19.19	-24.09	-29.54
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.24	10.46	12.98
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.81	1.62	2.43	3.20	3.93	4.65	5.37	6.09	6.37	6.37
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

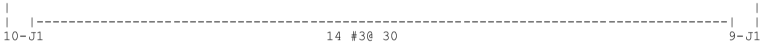
DESIGN

BEAM: J1(9-8) FLOOR: 7

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-28.22	-18.48	-10.77	-5.42	-2.18	-1.31	-2.78	-6.48	-12.29	-20.09	-29.87
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.37	7.93	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.65	13.14
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.24	6.01	4.45	2.90	1.35	0.24	1.79	3.27	4.66	6.04	6.25
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN



BEAM: J1(8-7) FLOOR: 7

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-30.96	-25.13	-19.89	-15.26	-11.25	-7.84	-5.05	-2.87	-1.30	-0.34	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.65	10.94	8.56	6.50	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.80	6.80	6.49	5.68	4.87	4.05	3.24	2.43	1.62	0.81	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

BEAM: K(10-9) FLOOR: 7

Length: L = 4.21 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 1.80 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.24	0.48	0.72	0.96	1.21	1.45	1.69	1.93	2.17	2.41
Mu(-), ton-m:	0.00	-0.22	-0.54	-1.19	-2.06	-3.15	-4.56	-6.07	-7.99	-10.07	-12.55
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.32	0.64	0.96	1.29	1.61	1.92	2.21	2.31	2.31	2.31
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

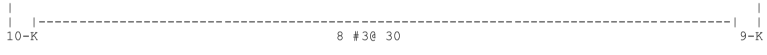
DESIGN

BEAM: K(9-8) FLOOR: 7

Length: L = 8.07 m a = 0.00 m Section: b = 50.0 cm Sec: S50X70
Lu = 8.07 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.81	1.61	2.42	3.23	4.04	4.84	5.65	6.46	7.26	8.07
Mu(-), ton-m:	-47.70	-30.41	-15.65	-9.91	-9.91	-9.91	-9.91	-9.91	-17.47	-32.28	-49.57
Mu(+), ton-m:	15.90	11.88	16.07	17.27	15.87	13.11	15.14	15.99	14.26	10.03	16.52
As(-), cm2:	20.92	13.04	10.71	10.71	10.71	10.71	10.71	10.71	10.71	13.87	21.80
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	6.44	6.21	5.14	4.33	3.52	2.92	3.73	4.50	5.25	6.22	6.42
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00

DESIGN



BEAM: K(8-7) FLOOR: 7

Length: L = 4.21 m a = 1.80 m Section: b = 50.0 cm Sec: S50X70
Lu = 2.41 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.79	-10.19	-8.05	-6.09	-4.57	-3.17	-2.09	-1.22	-0.57	-0.23	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.36	2.36	2.36	2.25	1.93	1.61	1.29	0.96	0.64	0.32	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

BEAM: K1(10-9) FLOOR: 7

Length:	L = 4.21 m		a = 0.00 m	Section:	b = 30.0 cm		Sec:	S30X70		
	Lu = 3.96 m		c = 0.25 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.33	-1.27	-2.83	-4.99	-7.74	-11.01	-14.83	-19.19	-24.09	-29.54
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.24	10.46	12.98
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.81	1.62	2.43	3.20	3.93	4.65	5.37	6.09	6.37	6.37
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
DESIGN	10-K1				14 #3@ 30						9-K1

BEAM: K1(9-8) FLOOR: 7

Length:	L = 8.07 m		a = 0.25 m	Section:	b = 30.0 cm		Sec:	S30X70		
	Lu = 7.57 m		c = 0.25 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-28.30	-18.55	-10.82	-5.46	-2.21	-1.32	-2.78	-6.47	-12.26	-20.05	-29.81
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	12.41	7.96	6.43	6.43	6.43	6.43	6.43	6.43	6.43	8.63	13.11
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.25	6.01	4.46	2.91	1.36	0.23	1.78	3.26	4.65	6.03	6.24
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
DESIGN	9-K1				26 #3@ 30						8-K1

BEAM: K1(8-7) FLOOR: 7

Length:	L = 4.21 m		a = 0.25 m	Section:	b = 30.0 cm		Sec:	S30X70		
	Lu = 3.96 m		c = 0.00 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-30.96	-25.13	-19.89	-15.26	-11.25	-7.84	-5.05	-2.87	-1.30	-0.34	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	13.65	10.94	8.56	6.50	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	6.80	6.80	6.49	5.68	4.87	4.05	3.24	2.43	1.62	0.81	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
DESIGN	8-K1				14 #3@ 30						7-K1

BEAM: L(10-9) FLOOR: 7

Length:	L = 4.21 m		a = 0.00 m	Section:	b = 50.0 cm		Sec:	S50X70		
	Lu = 2.41 m		c = 1.80 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	0.00	0.24	0.48	0.72	0.96	1.21	1.45	1.69	1.93	2.17	2.41
Mu(-), ton-m:	0.00	-0.22	-0.54	-1.19	-2.06	-3.14	-4.55	-6.06	-7.98	-10.05	-12.54
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	0.00	0.32	0.64	0.96	1.29	1.61	1.92	2.21	2.31	2.31	2.31
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
DESIGN	10-L				8 #3@ 30						9-L

BEAM: L(9-8) FLOOR: 7

Length:	L = 8.07 m		a = 1.80 m	Section:	b = 50.0 cm		Sec:	S50X70		
	Lu = 6.27 m		c = 0.00 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	1.80	2.43	3.05	3.68	4.31	4.93	5.56	6.19	6.81	7.44	8.07
Mu(-), ton-m:	-57.37	-40.71	-26.52	-13.99	-11.47	-11.47	-11.47	-11.47	-22.26	-34.83	-48.80
Mu(+), ton-m:	21.76	22.65	21.06	17.82	13.55	11.47	14.68	20.21	24.79	27.98	29.79
As(-), cm2:	25.51	17.69	11.32	10.71	10.71	10.71	10.71	10.71	10.71	15.02	21.44
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	11.96	12.76
vu, Kg/cm2:	7.55	7.55	6.73	5.89	5.34	4.94	5.21	5.77	6.34	6.89	6.89
Tu, ton-m:	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	15.00	15.00	15.00	30.00	30.00	30.00	30.00	30.00	15.00	15.00	15.00
DESIGN	9-L				11 #3@ 15	9 #3@ 30		11 #3@ 15			8-L

BEAM: L(8-7) FLOOR: 7

Length:	L = 4.21 m		a = 1.80 m	Section:	b = 50.0 cm		Sec:	S50X70		
	Lu = 2.41 m		c = 0.00 m		h = 70.0 cm		Mat:	RConcrete2		
X, m:	1.80	2.04	2.28	2.52	2.76	3.00	3.25	3.49	3.73	3.97	4.21
Mu(-), ton-m:	-12.79	-10.19	-8.05	-6.09	-4.57	-3.17	-2.09	-1.22	-0.57	-0.23	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
As(+), cm2:	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71	10.71
vu, Kg/cm2:	2.36	2.36	2.36	2.25	1.93	1.61	1.29	0.96	0.64	0.32	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
DESIGN	8-L				8 #3@ 30						7-L

BEAM: L1(10-9) FLOOR: 7

Length: L = 4.21 m a = 0.00 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.00	0.40	0.79	1.19	1.58	1.98	2.38	2.77	3.17	3.56	3.96
Mu(-), ton-m:	0.00	-0.19	-0.72	-1.59	-2.82	-4.37	-6.22	-8.39	-10.87	-13.65	-16.75
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.16
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	0.00	0.46	0.91	1.37	1.81	2.22	2.64	3.05	3.46	3.62	3.62
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

10-L1 14 #3@ 30 9-L1

BEAM: L1(9-8) FLOOR: 7

Length: L = 8.07 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 7.57 m c = 0.25 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	1.01	1.76	2.52	3.28	4.04	4.79	5.55	6.31	7.06	7.82
Mu(-), ton-m:	-16.55	-11.02	-6.64	-3.58	-1.72	-1.19	-2.00	-4.06	-7.33	-11.74	-17.28
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	7.07	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	7.39
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	3.55	3.41	2.54	1.66	0.79	0.12	0.99	1.84	2.63	3.42	3.54
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

9-L1 26 #3@ 30 8-L1

BEAM: L1(8-7) FLOOR: 7

Length: L = 4.21 m a = 0.25 m Section: b = 30.0 cm Sec: S30X70
Lu = 3.96 m c = 0.00 m h = 70.0 cm Mat: RConcrete2

X, m:	0.25	0.65	1.04	1.44	1.83	2.23	2.63	3.02	3.42	3.81	4.21
Mu(-), ton-m:	-17.46	-14.18	-11.22	-8.61	-6.34	-4.42	-2.85	-1.62	-0.73	-0.19	0.00
Mu(+), ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
As(-), cm2:	7.47	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
As(+), cm2:	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43	6.43
vu, Kg/cm2:	3.83	3.83	3.66	3.20	2.74	2.29	1.83	1.37	0.91	0.46	0.00
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00

DESIGN

8-L1 14 #3@ 30 7-L1

Design Results - Walls

Wall	Story	B (m)	H (m)	t (cm)	Mat -	HORIZONTAL REINFORCEMENT LCmb crit	Vu (ton)	Reinforcement	VERTICAL REINFORCEMENT LCmb crit	Pu (ton)	Mu2 (ton-m)	As tot (cm2)	As ctr (cm2)	As end (cm2)	Ends
10(B'-D)	S	11.30	3.50	25.0	2	4	165.72	2Ly#3@22.7 .0025	4	35.49	403.69	70.62	-	-	-
10(F-I)	S	22.73	3.50	25.0	2	4	296.41	2Ly#3@22.7 .0025	1	159.16	712.95	176.91	136.41	20.25	45x45
9'(F1-F3)	S	4.20	3.50	25.0	1	4	57.20	2Ly#3@22.7 .0025	3	449.64	94.41	73.77	18.37	27.70	25x63*
8(F1-F3)	S	4.20	3.50	25.0	1	4	57.97	2Ly#3@22.7 .0025	2	624.45	131.13	149.67	18.37	65.65	25x63*

Wall	Story	B	H	t	Mat	LCmb	Vu	Reinforcement	LCmb	Pu	Mu2	As tot	As ctr	As end	Ends
7(B'-D)	S	11.30	3.50	25.0	2	5	171.80	2Ly#3@22.7 .0025	5	57.56	455.82	70.62	-	-	-
7(F-I)	S	22.50	3.50	25.0	2	5	292.95	2Ly#3@22.7 .0025	5	95.12	895.27	140.61	-	-	-
B'(10-7)	S	16.49	3.50	25.0	2	2	580.84	2Ly#3@22.7 .0025	2	53.09	1357.7	103.05	-	-	-
D(11'-10)	S	2.20	3.50	25.0	2	3	47.16	2Ly#3@22.7 .0025	3	55.06	98.70	24.55	9.61	7.46	25x33
D(7-6')	S	2.43	3.50	25.0	2	2	64.16	2Ly#3@22.7 .0025	3	4.36	90.69	20.25	10.60	4.82	25x36
F(11'-10)	S	2.20	3.50	25.0	2	3	74.40	2Ly#3@22.7 .0025	3	107.51	136.63	41.56	9.61	15.97	25x33*
F(9'-9)	S	2.80	3.50	40.0	2	2	40.04	2Ly#3@17.8 .002	2	326.57	145.83	13.43	-	-	-
F(8'-8)	S	2.80	3.50	40.0	2	2	54.63	2Ly#3@14.2 .0025	4	716.90	100.37	133.69	19.60	57.04	40x42*
F(7-6')	S	2.43	3.50	25.0	2	2	60.97	2Ly#3@22.7 .0025	2	59.77	127.83	15.84	10.60	2.60	25x36
F1(9'-9)	S	2.80	3.50	25.0	2	2	31.70	2Ly#3@22.7 .0025	4	407.89	57.11	65.86	12.25	26.80	25x42*
F1(8'-8)	S	2.80	3.50	25.0	2	2	32.33	2Ly#3@22.7 .0025	5	-71.48	17.51	22.82	12.25	5.28	25x42
F2(9'-9)	S	2.80	3.50	25.0	2	2	33.90	2Ly#3@22.7 .0025	2	165.67	76.16	17.50	-	-	-
F2(8'-8)	S	2.80	3.50	25.0	2	2	32.04	2Ly#3@22.7 .0025	2	167.28	76.87	17.50	-	-	-
F3(9'-9)	S	2.80	3.50	25.0	2	2	31.20	2Ly#3@22.7 .0025	4	-140.44	41.84	46.41	12.25	17.07	25x42
F3(8'-8)	S	2.80	3.50	25.0	2	2	30.90	2Ly#3@22.7 .0025	5	463.27	64.86	90.26	12.25	39.00	25x42*
G(9'-9)	S	2.80	3.50	40.0	2	2	38.65	2Ly#3@17.8 .002	2	266.10	139.16	13.43	-	-	-
G(8'-8)	S	2.80	3.50	40.0	2	2	45.77	2Ly#3@14.2 .0025	5	693.42	97.08	123.34	19.60	51.88	40x42*
I(11-10)	S	5.94	3.50	25.0	2	2	124.48	2Ly#3@22.7 .0025	1	97.20	213.63	72.02	31.53	20.25	45x45
I(7-6')	S	2.43	3.50	25.0	2	2	58.09	2Ly#3@22.7 .0025	2	58.81	114.16	15.15	-	-	-
P(11-6')	S	24.64	3.50	25.0	2	2	451.42	2Ly#3@22.7 .0025	2	166.44	1650.1	153.97	-	-	-
9'(F1-F3)	1	4.20	4.90	25.0	1	4	234.80	2Ly#3@12.8 .0044	4	119.56	827.78	102.91	27.85	37.54	25x63*
8(F1-F3)	1	4.20	4.90	25.0	1	4	237.16	2Ly#3@12.6 .0045	5	284.26	797.86	150.50	28.15	61.16	25x63*
F(9'-9)	1	2.80	4.90	40.0	2	3	66.69	2Ly#3@14.2 .0025	3	331.91	417.54	70.22	19.60	25.30	40x42*
F(8'-8)	1	2.80	4.90	40.0	2	3	48.02	2Ly#3@14.2 .0025	4	632.90	88.61	96.68	19.60	38.54	40x42*
F1(9'-9)	1	2.80	4.90	25.0	2	4	45.74	2Ly#3@22.7 .0025	4	351.35	124.91	62.61	12.25	25.18	25x42*
F1(8'-8)	1	2.80	4.90	25.0	2	5	49.43	2Ly#3@22.7 .0025	4	375.85	139.44	76.58	12.25	32.16	25x42*
F2(9'-9)	1	2.80	4.90	25.0	2	3	35.29	2Ly#3@22.7 .0025	2	150.66	234.38	33.25	12.25	10.50	25x42*
F2(8'-8)	1	2.80	4.90	25.0	2	2	34.29	2Ly#3@22.7 .0025	2	150.05	236.99	33.25	12.25	10.50	25x42*
F3(9'-9)	1	2.80	4.90	25.0	2	4	46.09	2Ly#3@22.7 .0025	4	-103.45	70.40	60.75	12.25	24.26	25x42
F3(8'-8)	1	2.80	4.90	25.0	2	4	48.95	2Ly#3@22.7 .0025	5	387.33	136.22	80.26	12.25	34.00	25x42*
G(9'-9)	1	2.80	4.90	40.0	2	3	60.83	2Ly#3@14.2 .0025	3	361.04	371.10	68.61	19.60	24.50	40x42*
G(8'-8)	1	2.80	4.90	40.0	2	3	47.75	2Ly#3@14.2 .0025	5	609.44	85.31	86.33	19.60	33.36	40x42*
9'(F1-F3)	2	4.20	4.90	25.0	1	4	214.00	2Ly#3@14.6 .0039	4	105.36	592.64	65.58	25.12	20.22	25x63*
8(F1-F3)	2	4.20	4.90	25.0	1	4	216.69	2Ly#3@14.4 .0039	5	224.61	588.54	84.94	25.47	29.72	25x63*
F(9'-9)	2	2.80	4.90	40.0	2	2	43.50	2Ly#3@14.2 .0025	2	182.88	222.49	28.00	-	-	-
F(8'-8)	2	2.80	4.90	40.0	2	3	55.00	2Ly#3@14.2 .0025	3	250.41	176.66	28.00	-	-	-
F1(9'-9)	2	2.80	4.90	25.0	2	4	65.12	2Ly#3@22.7 .0025	5	38.90	148.13	20.63	12.25	4.19	25x42
F1(8'-8)	2	2.80	4.90	25.0	2	5	61.15	2Ly#3@22.7 .0025	5	70.12	174.55	19.06	12.25	3.41	25x42

Company: INTERDICO LTDA
Project: HOSPITAL ZIPAQUIRA
Engineer: RODRIGO CASTRO S
09:32:59 a.m. 05/08/2010

Wall	Story	B	H	t	Mat	LCmb	Vu	Reinforcement	LCmb	Pu	Mu2	As tot	As ctr	As end	Ends
F2(9'-9)	2	2.80	4.90	25.0	2	2	39.09	2Ly#3@22.7 .0025	2	84.34	168.33	17.50	-	-	-
F2(8'-8)	2	2.80	4.90	25.0	2	3	37.79	2Ly#3@22.7 .0025	3	118.30	129.30	17.50	-	-	-
F3(9'-9)	2	2.80	4.90	25.0	2	4	64.26	2Ly#3@22.7 .0025	4	22.93	150.24	28.82	12.25	8.28	25x42
F3(8'-8)	2	2.80	4.90	25.0	2	4	60.27	2Ly#3@22.7 .0025	4	66.73	172.30	19.46	12.25	3.60	25x42
G(9'-9)	2	2.80	4.90	40.0	2	3	39.38	2Ly#3@17.8 .002	3	287.47	179.33	13.43	-	-	-
G(8'-8)	2	2.80	4.90	40.0	2	3	50.68	2Ly#3@14.2 .0025	3	238.71	181.02	28.00	-	-	-
9'(F1-F3)	3	4.20	3.50	25.0	1	4	131.16	2Ly#3@22.7 .0025	4	97.81	224.46	26.25	-	-	-
8(F1-F3)	3	4.20	3.50	25.0	1	5	140.86	2Ly#3@22.7 .0025	5	169.13	245.30	26.25	-	-	-
F(9'-9)	3	2.80	3.50	40.0	2	3	37.41	2Ly#3@17.8 .002	3	235.00	62.31	13.43	-	-	-
F(8'-8)	3	2.80	3.50	40.0	2	3	40.29	2Ly#3@17.8 .002	3	187.25	44.45	13.43	-	-	-
F1(9'-9)	3	2.80	3.50	25.0	2	4	47.72	2Ly#3@22.7 .0025	4	84.19	91.58	17.50	-	-	-
F1(8'-8)	3	2.80	3.50	25.0	2	5	49.45	2Ly#3@22.7 .0025	5	123.83	99.01	17.50	-	-	-
F2(9'-9)	3	2.80	3.50	25.0	2	2	23.36	2Ly#3@28.4 .002	2	38.56	54.95	8.39	-	-	-
F2(8'-8)	3	2.80	3.50	25.0	2	2	18.43	2Ly#3@28.4 .002	2	161.97	45.02	8.39	-	-	-
F3(9'-9)	3	2.80	3.50	25.0	2	4	42.65	2Ly#3@22.7 .0025	4	88.11	72.29	17.50	-	-	-
F3(8'-8)	3	2.80	3.50	25.0	2	4	46.15	2Ly#3@22.7 .0025	4	123.38	95.81	17.50	-	-	-
G(9'-9)	3	2.80	3.50	40.0	2	3	37.65	2Ly#3@17.8 .002	3	234.53	76.05	13.43	-	-	-
G(8'-8)	3	2.80	3.50	40.0	2	3	40.61	2Ly#3@17.8 .002	3	181.91	60.58	13.43	-	-	-
9'(F1-F3)	4	4.20	3.50	25.0	1	4	109.41	2Ly#3@22.7 .0025	4	84.30	160.27	26.25	-	-	-
8(F1-F3)	4	4.20	3.50	25.0	1	5	119.00	2Ly#3@22.7 .0025	5	122.52	179.08	26.25	-	-	-
F(9'-9)	4	2.80	3.50	40.0	2	3	42.54	2Ly#3@14.2 .0025	3	178.72	55.34	28.00	-	-	-
F(8'-8)	4	2.80	3.50	40.0	2	3	48.84	2Ly#3@14.2 .0025	3	140.91	54.72	28.00	-	-	-
F1(9'-9)	4	2.80	3.50	25.0	2	5	32.22	2Ly#3@22.7 .0025	5	96.31	58.15	17.50	-	-	-
F1(8'-8)	4	2.80	3.50	25.0	2	5	35.15	2Ly#3@22.7 .0025	5	125.37	67.05	17.50	-	-	-
F2(9'-9)	4	2.80	3.50	25.0	2	2	17.04	2Ly#3@28.4 .002	2	19.86	19.85	8.39	-	-	-
F2(8'-8)	4	2.80	3.50	25.0	2	3	20.76	2Ly#3@28.4 .002	3	51.22	20.35	8.39	-	-	-
F3(9'-9)	4	2.80	3.50	25.0	2	4	36.93	2Ly#3@22.7 .0025	4	97.26	66.37	17.50	-	-	-
F3(8'-8)	4	2.80	3.50	25.0	2	4	32.90	2Ly#3@22.7 .0025	4	124.16	65.08	17.50	-	-	-
G(9'-9)	4	2.80	3.50	40.0	2	3	40.93	2Ly#3@17.8 .002	3	176.96	57.81	13.43	-	-	-
G(8'-8)	4	2.80	3.50	40.0	2	3	47.09	2Ly#3@14.2 .0025	3	137.47	58.56	28.00	-	-	-
9'(F1-F3)	5	4.20	3.50	25.0	1	4	68.86	2Ly#3@22.7 .0025	4	61.34	68.01	26.25	-	-	-
8(F1-F3)	5	4.20	3.50	25.0	1	5	74.55	2Ly#3@22.7 .0025	5	84.72	78.76	26.25	-	-	-
F(9'-9)	5	2.80	3.50	40.0	2	3	33.74	2Ly#3@17.8 .002	3	123.29	20.27	13.43	-	-	-
F(8'-8)	5	2.80	3.50	40.0	2	3	39.38	2Ly#3@17.8 .002	3	96.02	23.56	13.43	-	-	-
F1(9'-9)	5	2.80	3.50	25.0	2	5	21.39	2Ly#3@28.4 .002	5	93.43	42.29	8.39	-	-	-
F1(8'-8)	5	2.80	3.50	25.0	2	5	25.44	2Ly#3@28.4 .002	5	113.06	50.90	8.39	-	-	-
F2(9'-9)	5	2.80	3.50	25.0	2	2	11.98	2Ly#3@28.4 .002	2	6.90	1.53	8.39	-	-	-

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Wall	Story	B	H	t	Mat	LCmb	Vu	Reinforcement	LCmb	Pu	Mu2	As tot	As ctr	As end	Ends
F2(8'-8)	5	2.80	3.50	25.0	2	3	14.98	2Ly#3@28.4 .002	3	28.76	4.03	8.39	-	-	-
F3(9'-9)	5	2.80	3.50	25.0	2	4	25.70	2Ly#3@28.4 .002	4	94.70	48.74	8.39	-	-	-
F3(8'-8)	5	2.80	3.50	25.0	2	4	23.87	2Ly#3@28.4 .002	4	111.68	49.04	8.39	-	-	-
G(9'-9)	5	2.80	3.50	40.0	2	3	31.72	2Ly#3@17.8 .002	3	120.62	20.90	13.43	-	-	-
G(8'-8)	5	2.80	3.50	40.0	2	3	37.72	2Ly#3@17.8 .002	3	93.80	26.14	13.43	-	-	-
9'(F1-F3)	6	4.20	3.50	25.0	1	5	15.43	2Ly#3@28.4 .002	5	36.02	32.38	12.60	-	-	-
8(F1-F3)	6	4.20	3.50	25.0	1	5	22.52	2Ly#3@28.4 .002	5	47.66	16.68	12.60	-	-	-
F(9'-9)	6	2.80	3.50	40.0	2	3	27.19	2Ly#3@17.8 .002	3	68.58	9.60	13.43	-	-	-
F(8'-8)	6	2.80	3.50	40.0	2	3	33.09	2Ly#3@17.8 .002	3	52.43	15.52	13.43	-	-	-
F1(9'-9)	6	2.80	3.50	25.0	2	3	9.35	2Ly#3@28.4 .002	3	57.59	8.06	8.39	-	-	-
F1(8'-8)	6	2.80	3.50	25.0	2	2	12.71	2Ly#3@28.4 .002	2	68.83	9.64	8.39	-	-	-
F2(9'-9)	6	2.80	3.50	25.0	2	2	4.36	2Ly#3@28.4 .002	2	-0.36	14.11	8.39	-	-	-
F2(8'-8)	6	2.80	3.50	25.0	2	3	7.30	2Ly#3@28.4 .002	3	12.97	8.31	8.39	-	-	-
F3(9'-9)	6	2.80	3.50	25.0	2	3	12.77	2Ly#3@28.4 .002	3	48.95	6.84	8.39	-	-	-
F3(8'-8)	6	2.80	3.50	25.0	2	2	11.92	2Ly#3@28.4 .002	2	58.90	8.25	8.39	-	-	-
G(9'-9)	6	2.80	3.50	40.0	2	3	24.54	2Ly#3@17.8 .002	3	65.90	9.22	13.43	-	-	-
G(8'-8)	6	2.80	3.50	40.0	2	3	30.98	2Ly#3@17.8 .002	3	50.75	15.10	13.43	-	-	-
9'(F1-F3)	7	4.20	3.50	25.0	1	5	37.81	2Ly#3@22.7 .0025	5	13.93	91.72	26.25	-	-	-
8(F1-F3)	7	4.20	3.50	25.0	1	5	34.79	2Ly#3@22.7 .0025	5	13.36	84.30	26.25	-	-	-
F(9'-9)	7	2.80	3.50	40.0	2	3	11.85	2Ly#3@17.8 .002	3	12.84	16.63	13.43	-	-	-
F(8'-8)	7	2.80	3.50	40.0	2	3	14.67	2Ly#3@17.8 .002	3	7.46	27.09	13.43	-	-	-
F1(9'-9)	7	2.80	3.50	25.0	2	5	4.19	2Ly#3@28.4 .002	5	27.23	3.80	8.39	-	-	-
F1(8'-8)	7	2.80	3.50	25.0	2	4	6.09	2Ly#3@28.4 .002	4	-0.58	6.75	8.39	-	-	-
F2(9'-9)	7	2.80	3.50	25.0	2	3	5.67	2Ly#3@28.4 .002	3	20.29	18.04	8.39	-	-	-
F2(8'-8)	7	2.80	3.50	25.0	2	2	6.48	2Ly#3@28.4 .002	2	24.84	23.98	8.39	-	-	-
F3(9'-9)	7	2.80	3.50	25.0	2	3	7.94	2Ly#3@28.4 .002	3	16.76	3.19	8.39	-	-	-
F3(8'-8)	7	2.80	3.50	25.0	2	5	7.80	2Ly#3@28.4 .002	5	-6.40	7.82	8.39	-	-	-
G(9'-9)	7	2.80	3.50	40.0	2	3	10.13	2Ly#3@17.8 .002	3	11.43	12.64	13.43	-	-	-
G(8'-8)	7	2.80	3.50	40.0	2	3	13.35	2Ly#3@17.8 .002	3	7.42	25.15	13.43	-	-	-

STEEL DESIGN CHECK

COLUMN CAPACITY RATIOS

Column	Story	Sec	Lb2	Lb3	rBA	rV3	rV2
10-B	2	IPE500	490	490	0.029	0.001	0.001
10-B	3	IPE500	350	350	0.196	0.003	0.006
10-B	4	IPE500	350	350	0.219	0.001	0.007
10-B	5	IPE500	350	350	0.205	0.001	0.007
10-B	6	IPE500	350	350	0.204	0.001	0.007
10-B	7	IPE500	350	350	0.212	0.003	0.007
9-B	2	IPE500	490	490	0.130	0.002	0.002
9-B	3	IPE500	350	350	0.645	0.024	0.011
9-B	4	IPE500	350	350	0.417	0.024	0.008

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Column	Story	Sec	Lb2	Lb3	rBA	rV3	rV2
9-B	5	IPE500	350	350	0.302	0.024	0.008
9-B	6	IPE500	350	350	0.443	0.027	0.008
9-B	7	IPE500	350	350	0.614	0.030	0.010
8-B	2	IPE500	490	490	0.069	0.003	0.001
8-B	3	IPE500	350	350	0.530	0.030	0.004
8-B	4	IPE500	350	350	0.369	0.027	0.005
8-B	5	IPE500	350	350	0.197	0.024	0.004
8-B	6	IPE500	350	350	0.299	0.023	0.004
8-B	7	IPE500	350	350	0.454	0.024	0.006
7-B	2	IPE500	490	490	0.095	0.002	0.002
7-B	3	IPE500	350	350	0.071	0.004	0.002
7-B	4	IPE500	350	350	0.075	0.001	0.001
7-B	5	IPE500	350	350	0.060	0.001	0.001
7-B	6	IPE500	350	350	0.047	0.002	0.001
7-B	7	IPE500	350	350	0.045	0.003	0.002
10-M	3	IPE500	350	350	0.312	0.002	0.009
10-M	4	IPE500	350	350	0.177	0.002	0.006
10-M	5	IPE500	350	350	0.163	0.001	0.005
10-M	6	IPE500	350	350	0.140	0.003	0.005
10-M	7	IPE500	350	350	0.110	0.001	0.004
9-M	3	IPE500	350	350	0.229	0.005	0.006
9-M	4	IPE500	350	350	0.248	0.004	0.008
9-M	5	IPE500	350	350	0.221	0.004	0.007
9-M	6	IPE500	350	350	0.204	0.003	0.006
9-M	7	IPE500	350	350	0.183	0.002	0.006
8-M	3	IPE500	350	350	0.194	0.006	0.005
8-M	4	IPE500	350	350	0.181	0.005	0.006
8-M	5	IPE500	350	350	0.173	0.004	0.005
8-M	6	IPE500	350	350	0.158	0.003	0.004
8-M	7	IPE500	350	350	0.155	0.003	0.004
7-M	3	IPE500	350	350	0.171	0.002	0.005
7-M	4	IPE500	350	350	0.091	0.001	0.003
7-M	5	IPE500	350	350	0.077	0.000	0.002
7-M	6	IPE500	350	350	0.055	0.001	0.001
7-M	7	IPE500	350	350	0.035	0.002	0.001

B E A M C A P A C I T Y R A T I O S

Beam	Floor	Sec	LbTop	LbBot	rMn	rMp	rV3
8(B-B')	3	IPE500	875	875	0.000	0.000	0.000
9'(F-F1)	8	IPE500	180	180	0.090	0.088	0.071
9'(F1-F2)	8	IPE500	210	210	0.026	0.025	0.018
9'(F2-F3)	8	IPE500	210	210	0.031	0.023	0.019
9'(F3-G)	8	IPE500	220	220	0.146	0.143	0.091
9(B-B')	8	IPE500	495	495	0.109	0.454	0.063
9(B'-C)	8	IPE500	380	380	0.785	0.000	0.112
9(C-C1)	8	IPE500	375	375	0.216	0.054	0.046
9(C1-D)	8	IPE500	375	375	0.079	0.062	0.024
9(D-D1)	8	IPE500	375	375	0.145	0.065	0.037
9(D1-E)	8	IPE500	375	375	0.124	0.066	0.033
9(E-E')	8	IPE500	375	375	0.130	0.075	0.034
9(E'-F)	8	IPE500	375	375	0.185	0.071	0.042
9(F-F1)	8	IPE500	180	180	0.070	0.064	0.054
9(F1-F2)	8	IPE500	210	210	0.040	0.016	0.016
9(F2-F3)	8	IPE500	210	210	0.056	0.017	0.022
9(F3-G)	8	IPE500	220	220	0.107	0.110	0.069
9(G-G')	8	IPE500	360	360	0.181	0.066	0.043
9(G'-H)	8	IPE500	360	360	0.119	0.071	0.033
9(H-H1)	8	IPE500	355	355	0.132	0.057	0.036
9(H1-I)	8	IPE500	355	355	0.125	0.058	0.035
9(I-I1)	8	IPE500	395	395	0.147	0.068	0.035
9(I1-J)	8	IPE500	355	355	0.126	0.067	0.035
9(J-J1)	8	IPE500	375	375	0.143	0.064	0.036
9(J1-K)	8	IPE500	375	375	0.131	0.064	0.034
9(K-K1)	8	IPE500	375	375	0.125	0.067	0.034
9(K1-L)	8	IPE500	375	375	0.137	0.067	0.035
9(L-L1)	8	IPE500	375	375	0.133	0.087	0.035
9(L1-M)	8	IPE500	375	375	0.048	0.087	0.025
8'(F-F1)	8	IPE500	180	180	0.071	0.088	0.064
8'(F1-F2)	8	IPE500	210	210	0.042	0.008	0.017

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Beam	Floor	Sec	LbTop	LbBot	rMn	rMp	rV3
8'(F2-F3)	8	IPE500	210	210	0.050	0.019	0.019
8'(F3-G)	8	IPE500	220	220	0.102	0.126	0.072
8(B-B')	8	IPE500	495	495	0.056	0.361	0.048
8(B'-C)	8	IPE500	380	380	0.639	0.000	0.097
8(C-C1)	8	IPE500	375	375	0.173	0.055	0.040
8(C1-D)	8	IPE500	375	375	0.116	0.056	0.031
8(D-D1)	8	IPE500	375	375	0.144	0.065	0.037
8(D1-E)	8	IPE500	375	375	0.130	0.065	0.034
8(E-E')	8	IPE500	375	375	0.139	0.074	0.036
8(E'-F)	8	IPE500	375	375	0.185	0.071	0.042
8(F-F1)	8	IPE500	180	180	0.087	0.066	0.061
8(F1-F2)	8	IPE500	210	210	0.023	0.018	0.014
8(F2-F3)	8	IPE500	210	210	0.027	0.018	0.015
8(F3-G)	8	IPE500	220	220	0.126	0.109	0.075
8(G-G')	8	IPE500	360	360	0.170	0.065	0.041
8(G'-H)	8	IPE500	360	360	0.142	0.069	0.037
8(H-H1)	8	IPE500	355	355	0.133	0.057	0.036
8(H1-I)	8	IPE500	355	355	0.128	0.058	0.035
8(I-I1)	8	IPE500	395	395	0.147	0.068	0.035
8(I1-J)	8	IPE500	355	355	0.130	0.067	0.036
8(J-J1)	8	IPE500	375	375	0.141	0.064	0.036
8(J1-K)	8	IPE500	375	375	0.136	0.064	0.035
8(K-K1)	8	IPE500	375	375	0.140	0.067	0.036
8(K1-L)	8	IPE500	375	375	0.123	0.067	0.034
8(L-L1)	8	IPE500	375	375	0.118	0.091	0.033
8(L1-M)	8	IPE500	375	375	0.055	0.090	0.027
B(10-9')	2	IPE500	1649	1649	0.245	0.054	0.010
B(10-9')	2	IPE500	1649	1649	0.245	0.054	0.010
B(10-9')	2	IPE500	1649	1649	0.245	0.054	0.010
B(10-9')	2	IPE500	1649	1649	0.245	0.054	0.010
B(10-9')	2	IPE500	1649	1649	0.245	0.054	0.010
J(11-11')	2	IPE300	572	572	0.245	0.054	0.010
J(8-7)	2	S50X70	664	664	0.245	0.054	0.010
K(11-11')	2	IPE300	572	572	0.245	0.054	0.010
K(8-7)	2	S50X70	664	664	0.245	0.054	0.010
L(11-11')	2	IPE300	572	572	0.245	0.054	0.010
L(8-7)	2	S50X70	664	664	0.245	0.054	0.010
M(11-11')	2	IPE300	572	572	0.245	0.054	0.010
M(8-7)	2	S50X70	664	664	0.245	0.054	0.010
N(11-11')	2	IPE300	572	572	0.245	0.054	0.010
N(8-7)	2	S50X70	664	664	0.245	0.054	0.010
B(10-9')	3	IPE500	421	421	0.000	0.093	0.012
B(10-9')	3	IPE500	421	421	0.000	0.093	0.012
B(9-8')	3	IPE500	807	807	0.128	0.000	0.005
B(9-8')	3	IPE500	807	807	0.128	0.000	0.005
B(8-7)	3	IPE500	421	421	0.034	0.009	0.008
B(10-9')	4	IPE500	421	421	0.039	0.046	0.014
B(10-9')	4	IPE500	421	421	0.039	0.046	0.014
B(9-8')	4	IPE500	807	807	0.154	0.054	0.010
B(9-8')	4	IPE500	807	807	0.154	0.054	0.010
B(8-7)	4	IPE500	421	421	0.046	0.001	0.008
M(10-9')	4	IPE500	421	421	0.031	0.049	0.011
M(10-9')	4	IPE500	421	421	0.031	0.049	0.011
M(9-8')	4	IPE500	807	807	0.177	0.128	0.013
M(9-8')	4	IPE500	807	807	0.177	0.128	0.013
M(8-7)	4	IPE500	421	421	0.023	0.027	0.003
B(10-9')	5	IPE500	421	421	0.034	0.046	0.013
B(10-9')	5	IPE500	421	421	0.034	0.046	0.013
B(9-8')	5	IPE500	807	807	0.151	0.048	0.010
B(9-8')	5	IPE500	807	807	0.151	0.048	0.010
B(8-7)	5	IPE500	421	421	0.040	0.000	0.007
M(10-9')	5	IPE500	421	421	0.031	0.038	0.010
M(10-9')	5	IPE500	421	421	0.031	0.038	0.010
M(9-8')	5	IPE500	807	807	0.162	0.131	0.013
M(9-8')	5	IPE500	807	807	0.162	0.131	0.013
M(8-7)	5	IPE500	421	421	0.035	0.022	0.005
B(10-9')	6	IPE500	421	421	0.033	0.044	0.013
B(10-9')	6	IPE500	421	421	0.033	0.044	0.013
B(9-8')	6	IPE500	807	807	0.149	0.047	0.010

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Beam	Floor	Sec	LbTop	LbBot	rMn	rMp	rV3
B(9-8')	6	IPE500	807	807	0.149	0.047	0.010
B(8-7)	6	IPE500	421	421	0.038	0.000	0.006
M(10-9')	6	IPE500	421	421	0.032	0.034	0.009
M(10-9')	6	IPE500	421	421	0.032	0.034	0.009
M(9-8')	6	IPE500	807	807	0.153	0.124	0.012
M(9-8')	6	IPE500	807	807	0.153	0.124	0.012
M(8-7)	6	IPE500	421	421	0.036	0.023	0.005
B(10-9')	7	IPE500	421	421	0.037	0.048	0.013
B(10-9')	7	IPE500	421	421	0.037	0.048	0.013
B(9-8')	7	IPE500	807	807	0.149	0.047	0.010
B(9-8')	7	IPE500	807	807	0.149	0.047	0.010
B(8-7)	7	IPE500	421	421	0.041	0.001	0.008
M(10-9')	7	IPE500	421	421	0.033	0.028	0.007
M(10-9')	7	IPE500	421	421	0.033	0.028	0.007
M(9-8')	7	IPE500	807	807	0.148	0.119	0.012
M(9-8')	7	IPE500	807	807	0.148	0.119	0.012
M(8-7)	7	IPE500	421	421	0.039	0.027	0.007
B(10-9')	8	IPE500	421	421	0.041	0.025	0.016
B(10-9')	8	IPE500	421	421	0.041	0.025	0.016
B(9-8')	8	IPE500	807	807	0.183	0.029	0.019
B(9-8')	8	IPE500	807	807	0.183	0.029	0.019
B(8-7)	8	IPE500	421	421	0.066	0.003	0.017
B'(10-9')	8	IPE500	421	421	0.085	0.000	0.023
B'(10-9')	8	IPE500	421	421	0.085	0.000	0.023
B'(9-8')	8	IPE500	807	807	0.195	0.000	0.022
B'(9-8')	8	IPE500	807	807	0.195	0.000	0.022
B'(8-7)	8	IPE500	421	421	0.085	0.000	0.023
C(10-9')	8	IPE500	421	421	0.027	0.000	0.012
C(10-9')	8	IPE500	421	421	0.027	0.000	0.012
C(9-8')	8	IPE500	807	807	0.596	0.464	0.056
C(9-8')	8	IPE500	807	807	0.596	0.464	0.056
C(8-7)	8	IPE500	421	421	0.027	0.000	0.012
C1(10-9')	8	IPE500	421	421	0.075	0.000	0.020
C1(10-9')	8	IPE500	421	421	0.075	0.000	0.020
C1(9-8')	8	IPE500	807	807	0.171	0.000	0.019
C1(9-8')	8	IPE500	807	807	0.171	0.000	0.019
C1(8-7)	8	IPE500	421	421	0.075	0.000	0.020
D(10-9')	8	IPE500	421	421	0.026	0.000	0.012
D(10-9')	8	IPE500	421	421	0.026	0.000	0.012
D(9-8')	8	IPE500	807	807	0.501	0.284	0.043
D(9-8')	8	IPE500	807	807	0.501	0.284	0.043
D(8-7)	8	IPE500	421	421	0.026	0.000	0.012
D1(10-9')	8	IPE500	421	421	0.075	0.000	0.020
D1(10-9')	8	IPE500	421	421	0.075	0.000	0.020
D1(9-8')	8	IPE500	807	807	0.171	0.000	0.019
D1(9-8')	8	IPE500	807	807	0.171	0.000	0.019
D1(8-7)	8	IPE500	421	421	0.075	0.000	0.020
E(10-9')	8	IPE500	421	421	0.026	0.000	0.012
E(10-9')	8	IPE500	421	421	0.026	0.000	0.012
E(9-8')	8	IPE500	807	807	0.474	0.257	0.042
E(9-8')	8	IPE500	807	807	0.474	0.257	0.042
E(8-7)	8	IPE500	421	421	0.026	0.000	0.012
E'(10-9')	8	IPE500	421	421	0.075	0.000	0.020
E'(10-9')	8	IPE500	421	421	0.075	0.000	0.020
E'(9-8')	8	IPE500	807	807	0.171	0.000	0.019
E'(9-8')	8	IPE500	807	807	0.171	0.000	0.019
E'(8-7)	8	IPE500	421	421	0.075	0.000	0.020
F(10-9')	8	IPE500	141	141	0.003	0.000	0.004
F(9'-9)	8	IPE500	280	280	0.086	0.088	0.048
F(9-8')	8	IPE500	527	527	0.357	0.321	0.073
F(8'-8)	8	IPE500	280	280	0.099	0.099	0.054
F(8-7)	8	IPE500	421	421	0.062	0.000	0.016
F1(10-9')	8	IPE500	141	141	0.003	0.000	0.003
F1(9'-9)	8	IPE500	280	280	0.069	0.072	0.037
F1(9-8')	8	IPE500	527	527	0.345	0.314	0.068
F1(8'-8)	8	IPE500	280	280	0.083	0.084	0.043

Company: INTERDICO LTDA Engineer: RODRIGO CASTRO S
Project: HOSPITAL ZIPAQUIRA 09:32:59 a.m. 05/08/2010

Beam	Floor	Sec	LbTop	LbBot	rMn	rMp	rV3
F1(8-7)	8	IPE500	421	421	0.048	0.000	0.013
F2(10-9')	8	IPE500	141	141	0.003	0.000	0.004
F2(9'-9)	8	IPE500	280	280	0.054	0.058	0.030
F2(9-8')	8	IPE500	527	527	0.336	0.303	0.066
F2(8'-8)	8	IPE500	280	280	0.068	0.070	0.036
F2(8-7)	8	IPE500	421	421	0.050	0.000	0.013
F3(10-9')	8	IPE500	141	141	0.003	0.000	0.004
F3(9'-9)	8	IPE500	280	280	0.061	0.064	0.033
F3(9-8')	8	IPE500	527	527	0.307	0.273	0.061
F3(8'-8)	8	IPE500	280	280	0.081	0.082	0.042
F3(8-7)	8	IPE500	421	421	0.051	0.000	0.013
G(10-9')	8	IPE500	141	141	0.003	0.000	0.004
G(9'-9)	8	IPE500	280	280	0.070	0.072	0.039
G(9-8')	8	IPE500	527	527	0.298	0.260	0.062
G(8'-8)	8	IPE500	280	280	0.090	0.090	0.050
G(8-7)	8	IPE500	421	421	0.064	0.000	0.017
G'(10-9')	8	IPE500	421	421	0.072	0.000	0.019
G'(10-9')	8	IPE500	421	421	0.072	0.000	0.019
G'(9-8')	8	IPE500	807	807	0.166	0.000	0.019
G'(9-8')	8	IPE500	807	807	0.166	0.000	0.019
G'(8-7)	8	IPE500	421	421	0.072	0.000	0.019
H(10-9')	8	IPE500	421	421	0.025	0.000	0.011
H(10-9')	8	IPE500	421	421	0.025	0.000	0.011
H(9-8')	8	IPE500	807	807	0.444	0.235	0.039
H(9-8')	8	IPE500	807	807	0.444	0.235	0.039
H(8-7)	8	IPE500	421	421	0.025	0.000	0.011
H1(10-9')	8	IPE500	421	421	0.072	0.000	0.019
H1(10-9')	8	IPE500	421	421	0.072	0.000	0.019
H1(9-8')	8	IPE500	807	807	0.164	0.000	0.018
H1(9-8')	8	IPE500	807	807	0.164	0.000	0.018
H1(8-7)	8	IPE500	421	421	0.072	0.000	0.019
I(10-9')	8	IPE500	421	421	0.026	0.000	0.012
I(10-9')	8	IPE500	421	421	0.026	0.000	0.012
I(9-8')	8	IPE500	807	807	0.459	0.242	0.041
I(9-8')	8	IPE500	807	807	0.459	0.242	0.041
I(8-7)	8	IPE500	421	421	0.026	0.000	0.012
I1(10-9')	8	IPE500	421	421	0.075	0.000	0.020
I1(10-9')	8	IPE500	421	421	0.075	0.000	0.020
I1(9-8')	8	IPE500	807	807	0.171	0.000	0.019
I1(9-8')	8	IPE500	807	807	0.171	0.000	0.019
I1(8-7)	8	IPE500	421	421	0.075	0.000	0.020
J(10-9')	8	IPE500	421	421	0.026	0.000	0.012
J(10-9')	8	IPE500	421	421	0.026	0.000	0.012
J(9-8')	8	IPE500	807	807	0.458	0.246	0.040
J(9-8')	8	IPE500	807	807	0.458	0.246	0.040
J(8-7)	8	IPE500	421	421	0.026	0.000	0.012
J1(10-9')	8	IPE500	421	421	0.075	0.000	0.020
J1(10-9')	8	IPE500	421	421	0.075	0.000	0.020
J1(9-8')	8	IPE500	807	807	0.171	0.000	0.019
J1(9-8')	8	IPE500	807	807	0.171	0.000	0.019
J1(8-7)	8	IPE500	421	421	0.075	0.000	0.020
K(10-9')	8	IPE500	421	421	0.026	0.000	0.012
K(10-9')	8	IPE500	421	421	0.026	0.000	0.012
K(9-8')	8	IPE500	807	807	0.462	0.245	0.041
K(9-8')	8	IPE500	807	807	0.462	0.245	0.041
K(8-7)	8	IPE500	421	421	0.026	0.000	0.012
K1(10-9')	8	IPE500	421	421	0.075	0.000	0.020
K1(10-9')	8	IPE500	421	421	0.075	0.000	0.020
K1(9-8')	8	IPE500	807	807	0.171	0.000	0.019
K1(9-8')	8	IPE500	807	807	0.171	0.000	0.019
K1(8-7)	8	IPE500	421	421	0.075	0.000	0.020
L(10-9')	8	IPE500	421	421	0.026	0.000	0.012
L(10-9')	8	IPE500	421	421	0.026	0.000	0.012

Company: INTERDICO LTDA Engineer: RODRIGO CASTRO S
Project: HOSPITAL ZIPAQUIRA 09:33:00 a.m. 05/08/2010

Beam	Floor	Sec	LbTop	LbBot	rMn	rMp	rV3
L(9-8')	8	IPE500	807	807	0.605	0.467	0.057
L(9-8')	8	IPE500	807	807	0.605	0.467	0.057
L(8-7)	8	IPE500	421	421	0.026	0.000	0.012
Ll(10-9')	8	IPE500	421	421	0.075	0.000	0.020
Ll(10-9')	8	IPE500	421	421	0.075	0.000	0.020
Ll(9-8')	8	IPE500	807	807	0.171	0.000	0.019
Ll(9-8')	8	IPE500	807	807	0.171	0.000	0.019
Ll(8-7)	8	IPE500	421	421	0.075	0.000	0.020
M(10-9')	8	IPE500	421	421	0.060	0.015	0.014
M(10-9')	8	IPE500	421	421	0.060	0.015	0.014
M(9-8')	8	IPE500	807	807	0.168	0.086	0.019
M(9-8')	8	IPE500	807	807	0.168	0.086	0.019
M(8-7)	8	IPE500	421	421	0.063	0.019	0.015
9B-8'B'	3	IPE500	566	566	0.057	0.538	0.056

NUEVO HOSPITAL DE ZIPAQUIRÁ.

MEMORIAS DE CALCULO

DERIVAS UMBRAL DE DANO.

EQUIVALENT STATIC EARTHQUAKE FORCES COL NSR-98

Base Shear

V = Sa W
Sa = 1.2 Aa S I/ T, Sa = Aa I/2 for T >2.4 S
Sa = 2.5 Aa I for T<Tc, where Tc = 0.48 S

S E I S M I C P A R A M E T E R S

Peak acceleration, Aa ..... = 0.04

Region:	10	9	8	7	6	5	4	3	2	1
Aa:	0.45	0.40	0.35	0.30	0.25	0.20	0.15	0.10	0.075	0.05

LOCATION	Aa
Mocoa	0.35
Cucuta, Neiva, Pasto, Quibdo, Villavicencio	0.30
Armenia, B/manga, Cali, Manizales, Pereira, Popayan	0.25
Bogota , Ibague, Medellin, Tunja	0.20
Monteria, Santa Marta	0.15
Barranquilla, Cartagena, San Andres	0.10

Importance coefficient, I ..... = 1.3

GROUP	COEFFICIENT
IV - Essential facilities	1.30
III- Public assistance facilities	1.20
II - Especial occupancy buildings	1.10
I - Normal occupancy buildings	1.00

Site profile coefficient, S ..... = 1.5

PROFILE TYPE	S1	S2	S3	S4
FACTOR S	1.0	1.2	1.5	2.0

	X-direction	Y-direction
Energy Dissipation Coefficient, Ro =	5	5
T = 0.08 h^¾ ..... =	1.05	1.05
T = 0.05 h^¾ ..... =	.66	.66
Tmax: 1.2 Ta ..... =	.79	.79
Fundamental period, T ..... =	1.05	1.05

Reduction in R for Irregular Buildings:

PLAN IRREGULARITIES			ELEVATION IRREGULARITIES		
Type	Description	Øp	Type	Description	Øa
1P	Torsional	0.9	1A	Stiffness	0.9
2P	Reentrant corners	0.9	2A	Mass	0.9
3P	Diaph. discontin.	0.9	3A	Geometrical	0.9
4P	Plane shifting	0.8	4A	Plane shifting	0.8
5P	Unparallel grid	0.9	5A	Resistance	0.8

NOTE: EngSolutions RCB assumes irregular building.
For regular buildings make (Øp . Øa)= 1.0

Reduction factor, (Øp . Øa) : 0.81

R = (Øp . Øa)Ro

T O T A L B A S E S H E A R

Building Weight, W, (ton) = 11644.44

Acceleration, Aa . . . . . = .04
Transition period, Tc . . . . . = .72
Site coefficient, S . . . . . = 1.5
Importance factor, I . . . . . = 1.3
Reduct.for Irregularity, Øa .Øp = .81

	X-direction	Y-direction
Reduced energy coef, R =	4.05	4.05
Period, T, (sec) . . . =	1.05	1.05
1.2 Aa S I / T =	.089	.089
2.5 Aa I =	.13	.13
Sa =	.089	.089
Total Base Shear, V, (ton) =	1038.02	1038.02

A C C I D E N T A L T O R S I O N

	X-direction	Y-direction
Accidental eccentricity as a percentage of building dimension, (%)=	5	5

A C C I D E N T A L E C C E N T R I C I T Y:

	X - D I R E C T I O N (EQY)			Y - D I R E C T I O N (EQX)		
Level	δε☒☐ (m)	-	✌☒ (m)	δε☒ (m)	-	δε☒☐ (m)
8	0.82	1.00	0.82	4.19	1.00	4.19
7	0.82	1.00	0.82	4.19	1.00	4.19
6	0.82	1.00	0.82	4.19	1.00	4.19
5	0.82	1.00	0.82	4.19	1.00	4.19
4	0.82	1.00	0.82	4.19	1.00	4.19
3	0.93	1.00	0.93	4.56	1.00	4.56
2	1.23	1.00	1.23	4.56	1.00	4.56
1	1.23	1.00	1.23	5.09	1.00	5.09

Ax: Amplification factor for accidental eccentricity

EQY: Envelope (1) E☒ T ε☒
(2) E☒ T ε☒ δε☒
(3) E☒ T ε☒ δε☒

✌☒ δε☒

D E S I G N E C C E N T R I C I T Y : E = ε + δε

Level	X - D I R E C T I O N (EQY)				Y - D I R E C T I O N (EQX)			
	Center Mass	Static Eccent.	Accident Eccent.	Design Eccent.	Center Mass	Static Eccent.	Accident Eccent.	Design Eccent.
-	CMx	εx	δεx	Ex			εy	δεy	Ey
8	8.46	-0.85	0.82	-1.677	35.73	2.91	4.19	7.1010			
7	8.06	-1.24	0.82	-2.066	37.13	4.30	4.19	8.4949			
6	8.06	-1.24	0.82	-2.066	37.13	4.30	4.19	8.4949			
5	8.06	-1.24	0.82	-2.066	37.13	4.30	4.19	8.4949			
4	8.06	-1.24	0.82	-2.066	37.20	4.38	4.19	8.5757			
3	8.66	-0.65	0.93	-1.588	44.58	11.44	4.56	16.000			
2	8.85	-0.46	1.23	-1.699	53.04	19.64	4.56	24.200			
1	8.98	-0.11	1.23	-1.344	52.16	16.95	5.09	22.044			

Note: * Static eccentricity: εx + δεx εy + δεy
All values are in meters

D E S I G N E C C E N T R I C I T Y : E = ε + δε

Level	X - D I R E C T I O N (EQY)				Y - D I R E C T I O N (EQX)			
	Center Mass	Static Eccent.	Accident Eccent.	Design Eccent.	Center Mass	Static Eccent.	Accident Eccent.	Design Eccent.
-	CMx	εx	δεx	Ex			εy	δεy	Ey
8	8.46	-0.85	0.82	-0.033	35.73	2.91	4.19	-1.288			
7	8.06	-1.24	0.82	-0.422	37.13	4.30	4.19	0.1111			
6	8.06	-1.24	0.82	-0.422	37.13	4.30	4.19	0.1111			
5	8.06	-1.24	0.82	-0.422	37.13	4.30	4.19	0.1111			
4	8.06	-1.24	0.82	-0.422	37.20	4.38	4.19	0.1919			
3	8.66	-0.65	0.93	0.2828	44.58	11.44	4.56	6.8888			
2	8.85	-0.46	1.23	0.7777	53.04	19.64	4.56	15.088			
1	8.98	-0.11	1.23	1.1212	52.16	16.95	5.09	11.866			

Note: * Static eccentricity: εx + δεx εy + δεy
All values are in meters

Equivalent Forces

Fi = (Wi Hi^n / Σ Wi Hi^n) V
V = Sa W

E Q U I V A L E N T F O R C E S: X - D I R E C T I O N (EQUAKE X)

Floor i	Height Hi (m)	Weigth Wi (ton)	Wi Hi^n / Σ Wi Hi^n	Force Fi	Shear Vi	Torsion Ti=Fi(Ex+δεx)
8	30.79	315.4	0.063	65.39	65.394	274.24
7	27.29	1383	0.237	246.01	311.40	1031.9
6	23.79	1383	0.199	206.56	517.97	866.46
5	20.29	1383	0.163	169.19	687.16	709.71
4	16.79	1380	0.128	132.86	820.03	556.72
3	13.30	1793	0.123	127.67	947.71	582.23
2	8.39	1425	0.054	56.053	1003.7	255.67
1	3.50	2581	0.032	33.216	1036.9	169.18
Σ						

n = 1.275

E Q U I V A L E N T F O R C E S: Y - D I R E C T I O N (EQUAKE Y)

Floor i	Height Hi (m)	Weigth Wi (ton)	Wi Hi^n / Σ Wi Hi^n	Force Fi	Shear Vi	Torsion Ti=Fi(Ey+δεy)
8	30.79	315.4	0.063	65.39	65.394	53.651
7	27.29	1383	0.237	246.01	311.40	202.21
6	23.79	1383	0.199	206.56	517.97	169.79
5	20.29	1383	0.163	169.19	687.16	139.07
4	16.79	1380	0.128	132.86	820.03	109.30
3	13.30	1793	0.123	127.67	947.71	119.27
2	8.39	1425	0.054	56.053	1003.7	68.963
1	3.50	2581	0.032	33.216	1036.9	40.986
Σ						

n = 1.275

Company: INTERDICO LTDA
Project: DERIVAS UMBRAL DE DAÑO
Engineer: RODRIGO CASTRO S
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ANALYSIS - MAXIMUM STORY DRIFT RATIO, δ

Story	ColAxis	(δ	☎δ	☎☯☎δ	☎δ
7	9-C	0.0017	0.0008	0.0017	
	8-C	0.0017	0.0008	0.0017	
	9-D	0.0016	0.0008	0.0016	
	8-D	0.0016	0.0008	0.0016	
	9-E	0.0015	0.0008	0.0015	
	8-E	0.0015	0.0008	0.0015	
	9'-F	0.0014	0.0008	0.0014	
	9-F	0.0014	0.0008	0.0014	
	8'-F	0.0014	0.0008	0.0014	
	8-F	0.0014	0.0008	0.0014	
	9'-F1	0.0014	0.0008	0.0014	
	9-F1	0.0014	0.0008	0.0014	
	8'-F1	0.0014	0.0008	0.0014	
	8-F1	0.0014	0.0008	0.0014	
	9'-F2	0.0013	0.0008	0.0013	
	9-F2	0.0013	0.0008	0.0013	
	8'-F2	0.0013	0.0008	0.0013	
	8-F2	0.0013	0.0008	0.0013	
	9'-F3	0.0013	0.0008	0.0013	
	9-F3	0.0013	0.0008	0.0013	
	8'-F3	0.0013	0.0008	0.0013	
	8-F3	0.0013	0.0008	0.0013	
	9'-G	0.0013	0.0008	0.0013	
	9-G	0.0013	0.0008	0.0013	
	8'-G	0.0013	0.0008	0.0013	
	8-G	0.0013	0.0008	0.0013	
	9-H	0.0013	0.0008	0.0013	
	8-H	0.0013	0.0008	0.0013	
	9-I	0.0013	0.0008	0.0013	
	8-I	0.0013	0.0008	0.0013	
	9-J	0.0014	0.0008	0.0014	
	8-J	0.0014	0.0008	0.0014	
	9-K	0.0014	0.0008	0.0014	
	8-K	0.0014	0.0008	0.0014	
	9-L	0.0015	0.0008	0.0015	
	8-L	0.0015	0.0008	0.0015	
	10-M	0.0011	0.0012	0.0012	
	9-M	0.0011	0.0003	0.0011	
	8-M	0.0011	0.0003	0.0011	
	7-M	0.0011	0.0009	0.0011	
6	9-C	0.0018	0.0009	0.0018	
	8-C	0.0018	0.0009	0.0018	
	9-D	0.0017	0.0009	0.0017	
	8-D	0.0017	0.0009	0.0017	
	9-E	0.0016	0.0009	0.0016	
	8-E	0.0016	0.0009	0.0016	
	9'-F	0.0015	0.0009	0.0015	
	9-F	0.0015	0.0009	0.0015	
	8'-F	0.0015	0.0009	0.0015	
	8-F	0.0015	0.0009	0.0015	
	9'-F1	0.0014	0.0009	0.0014	
	9-F1	0.0014	0.0009	0.0014	
	8'-F1	0.0014	0.0009	0.0014	
	8-F1	0.0014	0.0009	0.0014	
	9'-F2	0.0014	0.0009	0.0014	
	9-F2	0.0014	0.0009	0.0014	
	8'-F2	0.0014	0.0009	0.0014	
	8-F2	0.0014	0.0009	0.0014	
	9'-F3	0.0014	0.0009	0.0014	
	9-F3	0.0014	0.0009	0.0014	
	8'-F3	0.0014	0.0009	0.0014	
	8-F3	0.0014	0.0009	0.0014	
	9'-G	0.0014	0.0009	0.0014	
	9-G	0.0014	0.0009	0.0014	
	8'-G	0.0014	0.0009	0.0014	
	8-G	0.0014	0.0009	0.0014	
	9-H	0.0013	0.0009	0.0013	
	8-H	0.0013	0.0009	0.0013	
	9-I	0.0014	0.0009	0.0014	
	8-I	0.0014	0.0009	0.0014	
	9-J	0.0014	0.0009	0.0014	

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Company: INTERDICO LTDA
Project: DERIVAS UMBRAL DE DAÑO
Engineer: RODRIGO CASTRO S
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	8-J	0.0014	0.0009	0.0014
	9-K	0.0015	0.0009	0.0015
	8-K	0.0015	0.0009	0.0015
	9-L	0.0016	0.0009	0.0016
	8-L	0.0016	0.0009	0.0016
	10-M	0.0015	0.0012	0.0015
	9-M	0.0015	0.0010	0.0015
	8-M	0.0015	0.0009	0.0015
	7-M	0.0015	0.0010	0.0015
5	9-C	0.0019	0.0011	0.0019
	8-C	0.0019	0.0011	0.0019
	9-D	0.0018	0.0011	0.0018
	8-D	0.0018	0.0011	0.0018
	9-E	0.0017	0.0011	0.0017
	8-E	0.0017	0.0011	0.0017
	9'-F	0.0016	0.0011	0.0016
	9-F	0.0016	0.0011	0.0016
	8'-F	0.0016	0.0011	0.0016
	8-F	0.0016	0.0011	0.0016
	9'-F1	0.0016	0.0011	0.0016
	9-F1	0.0016	0.0011	0.0016
	8'-F1	0.0016	0.0011	0.0016
	8-F1	0.0016	0.0011	0.0016
	9'-F2	0.0015	0.0011	0.0015
	9-F2	0.0015	0.0011	0.0015
	8'-F2	0.0015	0.0011	0.0015
	8-F2	0.0015	0.0011	0.0015
	9'-F3	0.0015	0.0011	0.0015
	9-F3	0.0015	0.0011	0.0015
	8'-F3	0.0015	0.0011	0.0015
	8-F3	0.0015	0.0011	0.0015
	9'-G	0.0015	0.0011	0.0015
	9-G	0.0015	0.0011	0.0015
	8'-G	0.0015	0.0011	0.0015
	8-G	0.0015	0.0011	0.0015
	9-H	0.0014	0.0011	0.0014
	8-H	0.0014	0.0011	0.0014
	9-I	0.0015	0.0011	0.0015
	8-I	0.0015	0.0011	0.0015
	9-J	0.0015	0.0011	0.0015
	8-J	0.0015	0.0011	0.0015
	9-K	0.0016	0.0011	0.0016
	8-K	0.0016	0.0011	0.0016
	9-L	0.0017	0.0011	0.0017
	8-L	0.0017	0.0011	0.0017
	10-M	0.0016	0.0012	0.0016
	9-M	0.0016	0.0014	0.0016
	8-M	0.0016	0.0014	0.0016
	7-M	0.0016	0.0011	0.0016
4	9-C	0.0021	0.0012	0.0021
	8-C	0.0021	0.0012	0.0021
	9-D	0.0020	0.0012	0.0020
	8-D	0.0020	0.0012	0.0020
	9-E	0.0018	0.0012	0.0018
	8-E	0.0018	0.0012	0.0018
	9'-F	0.0017	0.0012	0.0017
	9-F	0.0017	0.0012	0.0017
	8'-F	0.0017	0.0012	0.0017
	8-F	0.0017	0.0012	0.0017
	9'-F1	0.0017	0.0012	0.0017
	9-F1	0.0017	0.0012	0.0017
	8'-F1	0.0017	0.0012	0.0017
	8-F1	0.0017	0.0012	0.0017
	9'-F2	0.0016	0.0012	0.0016
	9-F2	0.0016	0.0012	0.0016
	8'-F2	0.0016	0.0012	0.0016
	8-F2	0.0016	0.0012	0.0016
	9'-F3	0.0016	0.0012	0.0016
	9-F3	0.0016	0.0012	0.0016
	8'-F3	0.0016	0.0012	0.0016
	8-F3	0.0016	0.0012	0.0016
	9'-G	0.0016	0.0012	0.0016
	9-G	0.0016	0.0012	0.0016
	8'-G	0.0016	0.0012	0.0016
	8-G	0.0016	0.0012	0.0016
	9-H	0.0015	0.0012	0.0015

	8-H	0.0015	0.0012	0.0015
	9-I	0.0016	0.0012	0.0016
	8-I	0.0016	0.0012	0.0016
	9-J	0.0016	0.0012	0.0016
	8-J	0.0016	0.0012	0.0016
	9-K	0.0016	0.0012	0.0016
	8-K	0.0016	0.0012	0.0016
	9-L	0.0017	0.0012	0.0017
	8-L	0.0017	0.0012	0.0017
	10-M	0.0018	0.0011	0.0018
	9-M	0.0018	0.0015	0.0018
	8-M	0.0018	0.0015	0.0018
	7-M	0.0018	0.0013	0.0018
3	9-C	0.0022	0.0013	0.0022
	8-C	0.0022	0.0013	0.0022
	9-D	0.0021	0.0013	0.0021
	8-D	0.0021	0.0013	0.0021
	9-E	0.0019	0.0013	0.0019
	8-E	0.0019	0.0013	0.0019
	9'-F	0.0018	0.0013	0.0018
	9-F	0.0018	0.0013	0.0018
	8'-F	0.0018	0.0013	0.0018
	8-F	0.0018	0.0013	0.0018
	9'-F1	0.0017	0.0013	0.0017
	9-F1	0.0017	0.0013	0.0017
	8'-F1	0.0017	0.0013	0.0017
	8-F1	0.0017	0.0013	0.0017
	9'-F2	0.0017	0.0013	0.0017
	9-F2	0.0017	0.0013	0.0017
	8'-F2	0.0017	0.0013	0.0017
	8-F2	0.0017	0.0013	0.0017
	9'-F3	0.0017	0.0013	0.0017
	9-F3	0.0017	0.0013	0.0017
	8'-F3	0.0017	0.0013	0.0017
	8-F3	0.0017	0.0013	0.0017
	9'-G	0.0016	0.0013	0.0016
	9-G	0.0016	0.0013	0.0016
	8'-G	0.0016	0.0013	0.0016
	8-G	0.0016	0.0013	0.0016
	9-H	0.0015	0.0013	0.0015
	8-H	0.0015	0.0013	0.0015
	9-I	0.0015	0.0013	0.0015
	8-I	0.0015	0.0013	0.0015
	9-J	0.0015	0.0013	0.0015
	8-J	0.0015	0.0013	0.0015
	9-K	0.0015	0.0013	0.0015
	8-K	0.0015	0.0013	0.0015
	9-L	0.0015	0.0013	0.0015
	8-L	0.0015	0.0013	0.0015
	10-M	0.0021	0.0006	0.0021
	9-M	0.0021	0.0011	0.0021
	8-M	0.0021	0.0012	0.0021
	7-M	0.0021	0.0014	0.0021
2	9-C	0.0022	0.0014	0.0022
	8-C	0.0022	0.0015	0.0022
	9-D	0.0021	0.0014	0.0021
	8-D	0.0021	0.0014	0.0021
	9-E	0.0019	0.0014	0.0019
	8-E	0.0019	0.0014	0.0019
	9'-F	0.0017	0.0014	0.0017
	9-F	0.0017	0.0014	0.0017
	8'-F	0.0017	0.0014	0.0017
	8-F	0.0017	0.0014	0.0017
	9'-F1	0.0016	0.0014	0.0016
	9-F1	0.0016	0.0014	0.0016
	8'-F1	0.0016	0.0014	0.0016
	8-F1	0.0016	0.0014	0.0016
	9'-F2	0.0016	0.0014	0.0016
	9-F2	0.0016	0.0014	0.0016
	8'-F2	0.0016	0.0014	0.0016
	8-F2	0.0016	0.0014	0.0016
	9'-F3	0.0015	0.0014	0.0015
	9-F3	0.0015	0.0014	0.0015
	8'-F3	0.0015	0.0014	0.0015
	8-F3	0.0015	0.0014	0.0015
	9'-G	0.0015	0.0014	0.0015

	9-G	0.0015	0.0014	0.0015
	8'-G	0.0015	0.0014	0.0015
	8-G	0.0015	0.0014	0.0015
	9-H	0.0013	0.0014	0.0014
	8-H	0.0013	0.0014	0.0014
	10-I	0.0013	0.0014	0.0014
	9-I	0.0013	0.0014	0.0014
	8-I	0.0013	0.0014	0.0014
	10-J	0.0012	0.0014	0.0014
	9-J	0.0012	0.0014	0.0014
	8-J	0.0012	0.0014	0.0014
	10-K	0.0012	0.0014	0.0014
	9-K	0.0012	0.0014	0.0014
	8-K	0.0012	0.0014	0.0014
	10-L	0.0011	0.0014	0.0014
	9-L	0.0011	0.0014	0.0014
	8-L	0.0011	0.0014	0.0014
	10-M	0.0011	0.0014	0.0014
	9-M	0.0011	0.0014	0.0014
	8-M	0.0011	0.0014	0.0014
	10-N	0.0010	0.0014	0.0014
	9-N	0.0010	0.0014	0.0014
	8-N	0.0010	0.0014	0.0014
1	9-C	0.0014	0.0011	0.0014
	8-C	0.0013	0.0010	0.0013
	9-D	0.0012	0.0011	0.0012
	8-D	0.0012	0.0011	0.0012
	9-E	0.0011	0.0011	0.0011
	8-E	0.0012	0.0011	0.0012
	9'-F	0.0011	0.0011	0.0011
	9-F	0.0011	0.0011	0.0011
	8'-F	0.0011	0.0011	0.0011
	8-F	0.0011	0.0011	0.0011
	9'-F1	0.0011	0.0011	0.0011
	9-F1	0.0011	0.0011	0.0011
	8'-F1	0.0011	0.0011	0.0011
	8-F1	0.0011	0.0011	0.0011
	9'-F2	0.0010	0.0011	0.0011
	9-F2	0.0010	0.0011	0.0011
	8'-F2	0.0010	0.0011	0.0011
	8-F2	0.0010	0.0011	0.0011
	9'-F3	0.0010	0.0011	0.0011
	9-F3	0.0010	0.0011	0.0011
	8'-F3	0.0010	0.0011	0.0011
	8-F3	0.0010	0.0011	0.0011
	9'-G	0.0010	0.0011	0.0011
	9-G	0.0010	0.0011	0.0011
	8'-G	0.0010	0.0011	0.0011
	8-G	0.0010	0.0011	0.0011
	9-H	0.0009	0.0011	0.0011
	8-H	0.0009	0.0011	0.0011
	10-I	0.0008	0.0011	0.0011
	9-I	0.0008	0.0011	0.0011
	8-I	0.0008	0.0011	0.0011
	10-J	0.0008	0.0011	0.0011
	9-J	0.0008	0.0011	0.0011
	8-J	0.0008	0.0011	0.0011
	10-K	0.0008	0.0011	0.0011
	9-K	0.0008	0.0011	0.0011
	8-K	0.0008	0.0011	0.0011
	10-L	0.0007	0.0011	0.0011
	9-L	0.0007	0.0011	0.0011
	8-L	0.0007	0.0011	0.0011
	10-M	0.0007	0.0011	0.0011
	9-M	0.0007	0.0011	0.0011
	8-M	0.0007	0.0011	0.0011
	10-N	0.0007	0.0011	0.0011
	9-N	0.0007	0.0011	0.0011
	8-N	0.0007	0.0011	0.0011
S	10-B'	0.0003	0.0001	0.0003
	9'-B'	0.0002	0.0001	0.0002
	9-B'	0.0003	0.0001	0.0003
	8'-B'	0.0001	0.0001	0.0001
	8-B'	0.0003	0.0001	0.0003
	7-B'	0.0003	0.0001	0.0003
	10-C	0.0003	0.0001	0.0003

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9-C	0.0003	0.0001	0.0003
8-C	0.0003	0.0001	0.0003
7-C	0.0003	0.0001	0.0003
10-C1	0.0001	0.0001	0.0001
7-C1	0.0002	0.0001	0.0002
11'-D	0.0003	0.0001	0.0003
10-D	0.0003	0.0001	0.0003
9-D	0.0003	0.0001	0.0003
8-D	0.0003	0.0001	0.0003
7-D	0.0003	0.0001	0.0003
6'-D	0.0003	0.0001	0.0003
9-E	0.0002	0.0001	0.0002
8-E	0.0002	0.0001	0.0002
11'-F	0.0002	0.0001	0.0002
10-F	0.0002	0.0001	0.0002
9'-F	0.0002	0.0001	0.0002
9-F	0.0002	0.0001	0.0002
8'-F	0.0002	0.0001	0.0002
8-F	0.0002	0.0001	0.0002
7-F	0.0002	0.0001	0.0002
6'-F	0.0002	0.0001	0.0002
10-F1	0.0001	0.0001	0.0001
9'-F1	0.0002	0.0001	0.0002
9-F1	0.0002	0.0001	0.0002
8'-F1	0.0002	0.0001	0.0002
8-F1	0.0002	0.0001	0.0002
7-F1	0.0002	0.0001	0.0002
10-F2	0.0001	0.0001	0.0001
9'-F2	0.0002	0.0001	0.0002
9-F2	0.0002	0.0001	0.0002
8'-F2	0.0002	0.0001	0.0002
8-F2	0.0002	0.0001	0.0002
7-F2	0.0001	0.0000	0.0001
10-F3	0.0000	0.0001	0.0001
9'-F3	0.0002	0.0001	0.0002
9-F3	0.0002	0.0001	0.0002
8'-F3	0.0002	0.0001	0.0002
8-F3	0.0002	0.0001	0.0002
7-F3	0.0001	0.0001	0.0001
10-G	0.0002	0.0001	0.0002
9'-G	0.0002	0.0001	0.0002
9-G	0.0002	0.0001	0.0002
8'-G	0.0002	0.0001	0.0002
8-G	0.0002	0.0001	0.0002
7-G	0.0002	0.0001	0.0002
10-G'	0.0001	0.0000	0.0001
7-G'	0.0001	0.0001	0.0001
10-H	0.0002	0.0001	0.0002
9-H	0.0002	0.0001	0.0002
8-H	0.0002	0.0001	0.0002
7-H	0.0002	0.0001	0.0002
10-H1	0.0001	0.0001	0.0001
7-H1	0.0001	0.0001	0.0001
11-I	0.0002	0.0001	0.0002
11'-I	0.0001	0.0001	0.0001
10-I	0.0002	0.0001	0.0002
9-I	0.0002	0.0001	0.0002
8-I	0.0002	0.0001	0.0002
7-I	0.0002	0.0001	0.0002
6'-I	0.0002	0.0001	0.0002
10-J	0.0002	0.0001	0.0002
9-J	0.0002	0.0001	0.0002
8-J	0.0002	0.0001	0.0002
10-K	0.0002	0.0001	0.0002
9-K	0.0002	0.0001	0.0002
8-K	0.0002	0.0001	0.0002
10-L	0.0002	0.0001	0.0002
9-L	0.0002	0.0001	0.0002
8-L	0.0002	0.0001	0.0002
10-M	0.0002	0.0001	0.0002
9-M	0.0002	0.0001	0.0002
8-M	0.0002	0.0001	0.0002
10-N	0.0002	0.0001	0.0002
9-N	0.0002	0.0001	0.0002
8-N	0.0002	0.0001	0.0002
10-O	0.0001	0.0001	0.0001
9-O	0.0001	0.0001	0.0001
8-O	0.0001	0.0001	0.0001

Company: INTERDICO LTDA Engineer: RODRIGO CASTRO S
Project: DERIVAS UMBRAL DE DAÑO 11:13:34 a.m. 05/08/2010

11-P	0.0001	0.0001	0.0001
11'-P	0.0001	0.0002	0.0002
10-P	0.0001	0.0001	0.0001
9'-P	0.0001	0.0002	0.0002
9-P	0.0001	0.0001	0.0001
8'-P	0.0001	0.0003	0.0003
8-P	0.0001	0.0001	0.0001
7-P	0.0001	0.0002	0.0002
6'-P	0.0001	0.0001	0.0001

Note: Drift amplification factor, D: 1 in X; 1 in Y
MAXIMA DRIFT: [illegible]