

مشروع :- توسعة الدائري (كوبرى الحضارات) - مستخلص ٢

أعمال توريد وتشكيل وتركيب ورص اسياخ حديد التسليح (٤٠/٦٠) اقل من ١٢ م

رقم البند	بالتن
180	بالتن
م	الفصل
1	الخوازيق
2	القواعد
3	الاعصده
اجمالي كمية حديد التسليح (بالتن)	158.113

المالك

استشاري المالك

الشركة المنفذة

محرم بالقوم

محرم بالقوم

Bar Mark	Bar Details		Bar Shape (Dimensions are in m)	Ø Of Bars	Spacing (MM)	Total No. of Bars				Cutting length (m)	Unit Weight (kg/m)	Weight (kg)	Notes	
	Member	Direction Particular Placing Of Bar				NO. OF Bar	NO. OF Member	NO. OF Sets	Total No.				STAGG	Description
1	PILE DA = 1.00 M		MAIN RFT	@ FIRST BAR		20	1	1	20	10.84	3.858	836.41		
3		RING COLAIR @ FIRST PART	RING COLAIR			6	1	1	6	2.7	2.000	32.40		
2		SPIRAL STIRRUPS				52.71	1	1	52.71	12	0.889	562.31		

NOTES

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$
 $L = \frac{8.84}{0.04} (\pi(0.860 + 0.012) + (0.04 * 0.012)) = 605.53 \text{ M}$
 ADDITIONAL LENGTH FOR SPLICE
 NO. OF SPLICES $= \frac{H}{12} = \frac{605.53}{12} = 50.46 \sim 51 \text{ Nos}$
 LENGTH FOR SPLICES $= 51 * 0.72 = 36.72 \text{ M}$

TOTAL LENGTH OF SPIRAL STIRRUPS = 605.53 + 36.72 = 642.25 m

REINFORCEMENT WEIGHT FOR ONE PILE (ton) =

1.431

المالك
الهيئة العامة للطرق والكباري

استشاري المالك
مكتب محرم باخوم

الشركة المنفذة
2023.3

مشروع :- توسعة الدائري عند تقاطع كوبري الحضارات
حصر جديد تسليح خوازيق محور (H02) قطر 1.00 م

Bar Mark	Bar Details		Bar Shape (Dimensions are in m)	Ø Of Bars	Spacing (MM)	Total No of Bars				Cutting length (m)	Unit Weight (kg/m)	Weight (kg)	Notes	
	Member	Direction	Particular Placing Of Bar			NO. OF Bar	NO. OF Member	NO. OF Sets	Total Nos				STAGG	Description
1		MAIN RFT	@ FIRST BAR		T25	-	1	1	20	12	3.858	925.92		
4		MAIN RFT	@ SEC BAR		T22	-	1	1	20	3.5	2.987	209.09		
3	PILE DA =1.00 M				T18	2000	1	1	8	2.7	2.000	43.20		
2		RING COLAIR @ FIRST PART	RING COLAIR											
		SPIRAL STIRRUPS			T12	40	1	1	64.38	12	0.889	686.81		

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$
 $L = \frac{10}{0.04} (\pi(0.860 + 0.012) + (0.04 * 0.012)) = 684.99 \text{ M}$
 $L = \frac{1.99}{0.1} (\pi(0.860 + 0.012) + (0.10 * 0.012)) = 54.53 \text{ M}$
 ADDITIONAL LENGTH FOR SPLICE
 NO. OF SPLICES = $\frac{H}{12} = \frac{739.52}{12} = 61.63 \sim 62 \text{ Nos}$
 LENGTH FOR SPLICES = $62 * 0.72 = 44.64 \text{ M}$

TOTAL LENGTH OF SPIRAL STIRRUPS = 784.16 m

REINFORCEMENT WEIGHT FOR ONE PILE (ton) =

1.865

المالك
الهيئة العامة للطرق والكباري

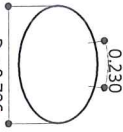
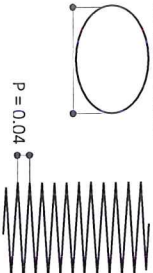
المستشاري
محرم باخوم

الشركة المنفذة

محرم باخوم

محرم باخوم

مشروع :- توسعة الدائري عند تقاطع كوبري الحضارات
حصر جديد تسليح خوازيق محور (H03) قطر 1,00 م

Bar Mark	Bar Details			Bar Shape (Dimensions are in m)	Ø Of Bars	Spacing (MM)	Total No. of Bars				Cutting length (m)	Unit Weight (kg/m ¹)	Weight (Kg)	Notes	
	Member	Direction	Particular Placing Of Bar				NO. OF Bar	NO. OF Member	NO. OF Sets	Total Nos				STAGG	Description
1	PILE DA = 1.00 M	MAIN RFT	@ FIRST BAR		T25	-	20	1	1	20	12	3.858	925.92		
4		MAIN RFT	@ SEC BAR		T22	-	20	1	1	20	2.75	2.987	164.29		
3		RING COLAIR @ FIRST PART	RING COLAIR		T18	2000	8	1	1	8	2.7	2.000	43.20		
2		SPIRAL STIRRUPS			T12	40	62.59	1	1	62.59	12	0.889	667.71		

NOTES

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$

$L = \frac{10}{0.04} (\pi(0.860 + 0.012) + (0.04 * 0.012)) = 684.99 \text{ M}$

$L = \frac{11}{0.1} (\pi(0.860 + 0.012) + (0.10 * 0.012)) = 34.26 \text{ M}$

ADDITIONAL LENGTH FOR SPLICE

NO. OF SPLICES $= \frac{H}{L} = \frac{719.25}{12} = 59.9 \sim 60$ Nos

LENGTH FOR SPLICES $= 60 * 0.72 = 43.2\text{M}$

H : HEIGHT OF SPIRAL STIRRUPS (11.99 M)

P : PITCH OF SPIRAL STIRRUPS (0.04 M)

A : INNER DIA. OF SPIRAL STIRRUP (0.860M)

Ø : DIA. OF SPIRAL STIRRUP (0.012 M)

SPIRAL SPLICE $= 60 \phi = 0.72\text{M}$

TOTAL LENGTH OF SPIRAL STIRRUPS =762.45 m

REINFORCEMENT WEIGHT FOR ONE PILE (ton) =

1.801

NOTES

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$
 $L = \frac{10}{0.04} (\pi(0.860 + 0.012) + (0.04 * 0.012)) = 684.99 \text{ M}$
 $L = \frac{12}{0.1} (\pi(0.860 + 0.012) + (0.10 * 0.012)) = 34.26 \text{ M}$
 ADDITIONAL LENGTH FOR SPLICE
 NO. OF SPLICES = $\frac{H}{12} = \frac{719.25}{12} = 59.9 \sim 60 \text{ Nos}$
 LENGTH FOR SPLICES = $60 * 0.72 = 43.2 \text{ M}$

TOTAL LENGTH OF SPIRAL STIRRUPS = 762.45 m

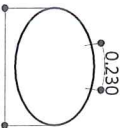
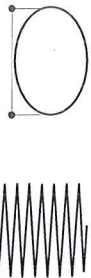
REINFORCEMENT WEIGHT FOR ONE PILE (ton) =

1.801

المالك
الهيئة العامة للطرق والكباري

المستشار
محرم باخوم

الشركة المنفذة
شركة السعداء

Bar Mark	Bar Details			Bar Shape (Dimensions are in m)	# Of Bars	Spacing (MM)	Total № of Bars				Cutting length (m)	Unit Weight (Kg/m ³)	Weight (Kg)	Notes	
	Member	Direction	Particular Placing Of Bar				NO. OF Bar	NO. OF Member	NO. OF Sets	Total Nos				STAGG	Description
1	PILE DA =1.00 M	MAIN RFT	@ FIRST BAR		T25	-	20	1	1	20	12	3.858	925.92		
4		MAIN RFT	@ SEC BAR		T22	-	20	1	1	20	2.6	2.987	155.32		
3		RING COLAIR @ FIRST PART	RING COLAIR	 R.C DIA =1.00 M D = 0.786	T18	2000	8	1	1	8	2.7	2.000	43.20		
2			SPIRAL STIRRUPS	 R.C DIA =1.00 M P = 0.04	T12	40	62.25	1	1	62.25	12	0.889	664.08		
NOTES SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$ $L = \frac{10}{0.04} (\pi(0.860 + 0.012) + (0.04 * 0.012)) = 684.99 \text{ M}$ $L = \frac{10}{0.1} (\pi(0.860 + 0.012) + (0.10 * 0.012)) = 30.15 \text{ M}$ ADDITIONAL LENGTH FOR SPLICE NO. OF SPLICES = $\frac{H}{12} = \frac{719.25}{12} = 59.6 \sim 60$Nos LENGTH FOR SPLICES = 60* 0.72 = 43.2M TOTAL LENGTH OF SPIRAL STIRRUPS =758.34s m REINFORCEMENT WEIGHT FOR ONE PILE (ton) = 1.789 H : HEIGHT OF SPIRAL STIRRUPS (11.99 M) P : PITCH OF SPIRAL STIRRUPS (0.04 M) A : INNER DIA. OF SPIRAL STIRRUP (0.860M) Ø : DIA. OF SPIRAL STIRRUP (0.012 M) SPIRAL SPLICE = 60 Ø = 0.72M															

NOTES

المالك

الهيئة العامة للطرق والكباري

المستشاري المالكة

مكتب محرم باخوم

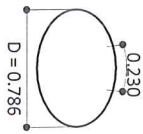
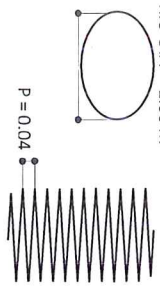
الشركة المنفذة

مكتب محرم باخوم

مكتب المسح والخرائط

المستشاري المالك
مكتب محرم باخوم
مشروع :- ترميم الدائري عند تقاطع كوبري الحضرات
حصص جديد تسليح خزانين محور (H05) قطر 1.00 م

المالك
الهيئة العامة للطرق والكباري

Bar Mark	Bar Details			Bar Shape (Dimensions are in m)	ø Of Bars	Spacing (MM)	Total № of Bars				Cutting length (m)	Unit Weight (kg/m')	Weight (kg)	Notes	
	Member	Direction	Particular Placing Of Bar				NO. Of Bar	NO. Of Member	NO. Of Sets	Total Nos				STAGC	Description
1		MAIN RFT	@ FIRST BAR		T25	-	20	1	1	20	11	3.858	848.76		
3		PILE DA =1.00 M			T18	2000	5	1	1	5	2.7	2.000	27.00		
2		RING COLAIR @ FIRST PART	RING COLAIR		T12	40	53.67	1	1	54	12	0.889	572.55		

NOTES

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$

$L = \frac{9.00}{0.04} (\pi(0.860 + 0.012) + (0.04 * 0.012)) = 616.49 \text{ M}$

ADDITIONAL LENGTH FOR SPLICE

NO. OF SPLICES = $\frac{H}{12} = \frac{616.49}{12} = 51.37 \sim 51 \text{ NOS}$

LENGTH FOR SPLICES = $51 * 0.72 = 36.72 \text{ M}$

TOTAL LENGTH OF SPIRAL STIRRUPS = $616.49 + 36.72 = 653.21 \text{ m}$

REINFORCEMENT WEIGHT FOR ONE PILE (ton) = 1.448

H : HEIGHT OF SPIRAL STIRRUPS (9.00 M)

P : PITCH OF SPIRAL STIRRUPS (0.04 M)

A : INNER DIA. OF SPIRAL STIRRUP (0.860M)

ø : DIA. OF SPIRAL STIRRUP (0.012 M)

SPIRAL SPLICE = 60 ø = 0.72M

NOTES

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$
 $L = \frac{9.00}{0.04} (\pi(0.860 + 0.012) + (0.04 * 0.012)) = 616.49 \text{ M}$
 ADDITIONAL LENGTH FOR SPLICE
 NO. OF SPLICES = $\frac{H}{12} = \frac{616.49}{12} = 51.37 \sim 51 \text{ Nos}$
 LENGTH FOR SPLICES = $51 * 0.72 = 36.72 \text{ M}$

TOTAL LENGTH OF SPIRAL STIRRUPS = 616.49 + 36.72 = 653.21 m

REINFORCEMENT WEIGHT FOR ONE PILE (ton) =

1.448

المالك
الهيئة العامة للطرق والكباري

المستشاري المالك
مكتب محرم باخوم

الشركة المنقذة

محرم باخوم

محرم باخوم

محرم باخوم

Bar Mark	Bar Details		Bar Shape (Dimensions are in m)	No. Of Bars	Spacing (MM)	Total No. of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes	
	Member	Direction	Particular Placing Of Bar			NO. OF Bar	NO. OF Member	NO. OF Sets	Total Nos				ST AGG	Description
1	PILE DA =1.00 M			MAIN RFT	@ FIRST BAR									
3		RING COLAIR @ FIRST PART	RING COLAIR		T18	2000	6	1	1	6	2.7	2,000	32.40	
2		SPIRAL STIRRUPS		T12	40	59.65	1	1	1	60	12	0.889	636.35	

NOTES

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$
 $L = \frac{10.00}{0.04} (\pi(0.360 + 0.012) + (0.04 * 0.012)) = 685 \text{ M}$
 ADDITIONAL LENGTH FOR SPLICE
 NO. OF SPLICES = $\frac{H}{12} = \frac{685}{12} = 57.08 \sim 57 \text{ Nos}$
 LENGTH FOR SPLICES = $57 * 0.72 = 41.04 \text{ M}$

TOTAL LENGTH OF SPIRAL STIRRUPS = 726.04 m

REINFORCEMENT WEIGHT FOR ONE PILE (ton) =

1.595

المالك
الهيئة العامة للطرق والكباري

استشاري المالك
مكتب محرم باخوم

الشركة المنقذة

الهيئة العامة للطرق والكباري

Bar Mark	Bar Details			Bar Shape (Dimensions are in m)	o OF Bars	Spacing (MM)	Total No. of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes	
	Member	Direction	Particular Placing Of Bar				NO. OF Bar	NO. OF Member	NO. OF Sets	Total Nos				STACG	Description
1		MAIN RFT	@ FIRST BAR		T25	-	20	1	1	20	12	3.858	925.92		
4		MAIN RFT	@ SEC BAR		T22	-	20	1	1	20	3	2.987	179.22		
3		RING COLAIR FIRST PART	RING COLAIR		T18	2000	8	1	1	8	2.7	2.000	43.20		
2		SPIRAL STIRRUPS	SPIRAL STIRRUPS		T12	40	59.65	1	1	59.65	12	0.889	636.35		
2		SPIRAL STIRRUPS	SPIRAL STIRRUPS		T12	100	3.57	1	1	3.57	12	0.889	38.08		

PILE DA = 1.00 M

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$

$L = \frac{10}{0.04} (\pi(0.860 + 0.012) + (0.04 * 0.012)) = 684.89 \text{ M}$

ADDITIONAL LENGTH FOR SPLICE

NO. OF SPLICES = $\frac{H}{L} = \frac{684.89}{12} = 57.08 \sim 57 \text{ Nos}$

LENGTH FOR SPLICES = $57 * 0.72 = 41.04 \text{ M}$

TOTAL LENGTH OF SPIRAL STIRRUPS = 726.03 m

H : HEIGHT OF SPIRAL STIRRUPS (10.00~1.50 MD)

P : PITCH OF SPIRAL STIRRUPS (0.04~0.10 MD)

A : INNER DIA. OF SPIRAL STIRRUP (0.860MD)

ϕ : DIA. OF SPIRAL STIRRUP (0.012 MD)

SPIRAL SPLICE = $60 \phi = 0.72 \text{ M}$

REINFORCEMENT WEIGHT FOR ONE PILE (ton) = 1.823

Bar Mark	Bar Details		Bar Shape (Dimensions are in m)	o Of Bars	Spacing (MM)	Total No. of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes	
	Member	Particular Placing Of Bar				NO. OF Bar	NO. OF Member	NO. OF Sets	Total Nos				STAGG	Description
1		MAIN RFT	@ FIRST BAR		T25	-	1	1	1	20	12	3.858	925.92	
4		MAIN RFT	@ SEC BAR		T22	-	1	1	1	20	5.75	2.987	343.51	
3		RING COLAIR FIRST PART	RING COLAIR		T18	2000	8	1	1	8	2.7	2.000	43.20	
2		SPIRAL STIRRUPS			T12	40	59.65	1	1	60	12	0.889	636.35	
2		SPIRAL STIRRUPS			T12	100	10.11	1	1	10	12	0.889	107.85	

PILE DA = 1.00 M

NOTES

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$
 $L = \frac{10}{0.04} (\pi(0.860 + 0.012) + (0.04 * 0.012)) = 684.99 \text{ M}$
 NO. OF SPLICES $= \frac{H}{L} = \frac{684.99}{12} = 57.08 \sim 57 \text{ Nos}$
 LENGTH FOR SPLICES $= 57 * 0.72 = 41.04 \text{ M}$
 TOTAL LENGTH OF SPIRAL STIRRUPS $= 726.03 \text{ m}$

ADDITIONAL LENGTH FOR SPLICE

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$
 $L = \frac{4.25}{0.1} (\pi(0.860 + 0.012) + (0.10 * 0.012)) = 116.45 \text{ M}$
 NO. OF SPLICES $= \frac{H}{L} = \frac{116.45}{12} = 9.7 \sim 10 \text{ Nos}$
 LENGTH FOR SPLICES $= 10 * 0.72 = 7.2 \text{ M}$
 TOTAL LENGTH OF SPIRAL STIRRUPS $= 123.65 \text{ m}$

ADDITIONAL LENGTH FOR SPLICE

REINFORCEMENT WEIGHT FOR ONE PILE (ton) =

2.057

المالك

الهيئة العامة للطرق والكباري

المالك

مكتب محرم باقوم

الشركة المنفذة

مكتب محرم باقوم

الشركة المنفذة

Bar Mark	Bar Details		Bar Shape (Dimensions are in m)	o OF Bars	Spacing (MM)	Total No. of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes	
	Member	Particular Placing Of Bar				NO. OF Bar	NO. OF Member	NO. OF Sets	Total No				STACG	Description
1		MAIN RFT	@ FIRST BAR		T25	-	1	1	1	20	12	3.858	925.92	
4		MAIN RFT	@ SEC BAR		T22	-	1	1	1	20	5.57	2.987	332.75	
3		RING COLAIR @ FIRST PART	RING COLAIR		T18	2000	8	1	1	8	2.7	2.000	43.20	
2		SPIRAL STIRRUPS			T12	40	59.65	1	1	60	12	0.889	636.35	
2		SPIRAL STIRRUPS			T12	100	9.71	1	1	10	12	0.889	103.59	

NOTES

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$
 $L = \frac{10}{0.04} (\pi(0.860 + 0.012) + (0.04 * 0.012)) = 684.99$ M
 ADDITIONAL LENGTH FOR SPLICE
 NO. OF SPLICES $= \frac{H}{L} = \frac{684.99}{12} = 57.08 \sim 57$ Nos
 LENGTH FOR SPLICES $= 57 * 0.72 = 41.04$ M
 TOTAL LENGTH OF SPIRAL STIRRUPS $= 726.03$ m

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$
 $L = \frac{4.07}{0.1} (\pi(0.860 + 0.012) + (0.10 * 0.012)) = 111.52$ M
 ADDITIONAL LENGTH FOR SPLICE
 NO. OF SPLICES $= \frac{H}{L} = \frac{111.52}{12} = 9.29 \sim 9$ Nos
 LENGTH FOR SPLICES $= 9 * 0.72 = 6.48$ M
 TOTAL LENGTH OF SPIRAL STIRRUPS $= 118$ m

H : HEIGHT OF SPIRAL STIRRUPS (10.00-1.50 M)
 P : PITCH OF SPIRAL STIRRUPS (0.04-0.10 M)
 A : INNER DIA. OF SPIRAL STIRRUP (0.860M)
 φ : DIA. OF SPIRAL STIRRUP (0.012 M)
 SPIRAL SPLICE $= 60 \phi = 0.72$ M

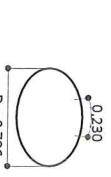
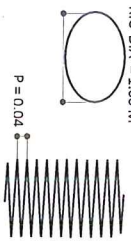
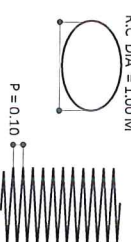
REINFORCEMENT WEIGHT FOR ONE PILE (ton) =

2.042

المالك
الهيئة العامة للطرق والكباري

استشاري المالك
مكتب محرم بالجزم

الشركة المنفذ
شركة السعداء

Bar Mark	Bar Details			Bar Shape (Dimensions are in m)	o Of Bars	Spacing (MM)	Total No. of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes	
	Member	Direction	Particular Pacing Of Bar				NO. OF Bar	NO. OF Member	NO. OF Sets	Total Nos				STAGG	Description
1		MAIN RFT	@ FIRST BAR		T25	-	20	1	1	20	12	3.858	925.92		
4		MAIN RFT	@ SEC BAR		T22	-	20	1	1	20	4.81	2.987	287.35		
3		RING COLAIR @ FIRST PART	RING COLAIR		T18	2000	8	1	1	8	2.7	2.000	43.20		
2		SPIRAL STIRRUPS		T12	40	59.65	1	1	1	60	12	0.889	636.35		
2		SPIRAL STIRRUPS		T12	100	7.88	1	1	1	8	12	0.889	84.06		

NOTES

SPRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$

$L = \frac{10}{0.04} (\pi(0.860 + 0.012) + (0.04 * 0.012)) = 684.99 \text{ M}$

ADDITIONAL LENGTH FOR SPLICE

NO. OF SPLICES $= \frac{H}{L} = \frac{684.99}{12} = 57.08 \sim 57 \text{ Nos}$

LENGTH FOR SPLICES $= 57 * 0.72 = 41.04 \text{ M}$

TOTAL LENGTH OF SPIRAL STIRRUPS $= 726.03 \text{ m}$

SPRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$

$L = \frac{3.21}{0.1} (\pi(0.860 + 0.012) + (0.10 * 0.012)) = 90.69 \text{ M}$

ADDITIONAL LENGTH FOR SPLICE

NO. OF SPLICES $= \frac{H}{L} = \frac{90.69}{12} = 7.56 \sim 7 \text{ Nos}$

LENGTH FOR SPLICES $= 7 * 0.72 = 5.04 \text{ M}$

TOTAL LENGTH OF SPIRAL STIRRUPS $= 95.73 \text{ m}$

H : HEIGHT OF SPIRAL STIRRUPS (10.00~1.50 M)

P : PITCH OF SPIRAL STIRRUPS (0.04~0.10 M)

A : INNER DIA. OF SPIRAL STIRRUP (0.860M)

ϕ : DIA. OF SPIRAL STIRRUP (0.012 M)

SPIRAL SPLICE $= 60 \phi = 0.72 \text{M}$

REINFORCEMENT WEIGHT FOR ONE PILE (ton) = 1.977

NOTES

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$
 $L = \frac{10}{0.04} (\pi(0.860 + 0.012) + (0.04 * 0.012)) = 684.99 \text{ M}$

ADDITIONAL LENGTH FOR SPLICE

NO. OF SPLICES $= \frac{H}{L} = \frac{684.99}{57} = 12$
 LENGTH FOR SPLICES $= 12 * 0.72 = 8.64 \text{ M}$
 TOTAL LENGTH OF SPIRAL STIRRUPS $= 726.03 \text{ m}$

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$
 $L = \frac{321}{0.1} (\pi(0.860 + 0.012) + (0.10 * 0.012)) = 90.69 \text{ M}$

ADDITIONAL LENGTH FOR SPLICE

NO. OF SPLICES $= \frac{H}{L} = \frac{90.69}{7} = 13$
 LENGTH FOR SPLICES $= 13 * 0.72 = 9.36 \text{ M}$
 TOTAL LENGTH OF SPIRAL STIRRUPS $= 95.73 \text{ m}$

REINFORCEMENT WEIGHT FOR ONE PILE (ton) =

1.977

المالك
الهيئة العامة للطرق والكباري

استشاري المالك
مكتب مكرم باخوم

الشركة المتحدة

Bar Mark	Bar Details		Bar Shape (Dimensions are in m)	o Or Bars	Spacing (MM)	Total No. of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes	
	Member	Direction Particular Placing Of Bar				NO. OF Bar	NO. OF Member	NO. OF Sets	Total Nos				STACG	Description
1		MAIN RFT	@ FIRST BAR		T25	-	1	1	1	20	12	3.858	925.92	
4		MAIN RFT	@ SEC BAR		T22	-	1	1	1	20	8.32	2.987	497.04	
3		RING COLAIR @ FIRST PART	RING COLAIR		T18	2000	10	1	1	10	2.7	2.000	54.00	
2		SPIRAL STIRRUPS		R.C DIA = 1.00 M P = 0.04	T12	40	59.65	1	1	60	12	0.889	636.35	
2		SPIRAL STIRRUPS		R.C DIA = 1.00 M P = 0.10	T12	100	16.26	1	1	16	12	0.889	173.46	

NOTES

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$
 $L = \frac{10}{0.04} (\pi(0.860 + 0.012) + (0.04 * 0.012)) = 684.99 \text{ M}$
 ADDITIONAL LENGTH FOR SPLICE
 NO. OF SPLICES = $\frac{H}{L} = \frac{684.99}{12} = 57.08 \sim 57 \text{ Nos}$
 LENGTH FOR SPLICES = $57 * 0.72 = 41.04 \text{ M}$
 TOTAL LENGTH OF SPIRAL STIRRUPS = 726.03 m

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$
 $L = \frac{6.02}{0.1} (\pi(0.860 + 0.012) + (0.10 * 0.012)) = 186.87 \text{ M}$
 ADDITIONAL LENGTH FOR SPLICE
 NO. OF SPLICES = $\frac{H}{L} = \frac{186.87}{12} = 15.57 \sim 15 \text{ Nos}$
 LENGTH FOR SPLICES = $15 * 0.72 = 10.8 \text{ M}$
 TOTAL LENGTH OF SPIRAL STIRRUPS = 197.67 m

H : HEIGHT OF SPIRAL STIRRUPS (10.00-1.50 M)
 P : PITCH OF SPIRAL STIRRUPS (0.04-0.10 M)
 A : INNER DIA. OF SPIRAL STIRRUP (0.860M)
 φ : DIA. OF SPIRAL STIRRUP (0.012 M)
 SPIRAL SPLICE = 60 φ = 0.72M

REINFORCEMENT WEIGHT FOR ONE PILE (ton) =

2.287

المالك
الهيئة العامة للطرق والكباري

استشاري المالك
مكتب محرم باخيم

الشركة المتحدة

محرم باخيم

محرم باخيم

Bar Mark	Bar Details			Bar Shape (Dimensions are in m)	o Of Bars	Spacing (MM)	Total No. of Bars				Cutting length (m)	Lit Weight (Kg/m)	Weight (Kg)	Notes	
	Member	Direction	Particular Placing Of Bar				NO. OF Bar	NO. OF Member	NO. OF Sets	Total Nos				STAGG	Description
1		MAIN RFT	@ FIRST BAR		T25	-	20	1	1	20	12	3.858	925.92		
4		MAIN RFT	@ SEC BAR		T22	-	20	1	1	20	6.7	2.987	400.26		
3		RING COLAIR @ FIRST PART	RING COLAIR		T18	2000	9	1	1	9	2.7	2.000	48.60		
2		PILE DA =1.00 M	SPIRAL STIRRUPS		T12	40	59.65	1	1	60	12	0.889	636.35		
2		PILE DA =1.00 M	SPIRAL STIRRUPS		T12	100	12.37	1	1	12	12	0.889	131.96		

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$

$L = \frac{10}{0.04} (\pi(0.860 + 0.012) + (0.04 * 0.012)) = 684.39 \text{ M}$

ADDITIONAL LENGTH FOR SPLICE

NO. OF SPLICES = $\frac{H}{12} = \frac{684.39}{12} = 57.08 \sim 57 \text{ Nos}$

LENGTH FOR SPLICES = $57 * 0.72 = 41.04 \text{ M}$

TOTAL LENGTH OF SPIRAL STIRRUPS = 726.03 m

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$

$L = \frac{5.20}{0.1} (\pi(0.860 + 0.012) + (0.10 * 0.012)) = 142.48 \text{ M}$

ADDITIONAL LENGTH FOR SPLICE

NO. OF SPLICES = $\frac{H}{12} = \frac{142.48}{12} = 11.87 \sim 11 \text{ Nos}$

LENGTH FOR SPLICES = $11 * 0.72 = 7.92 \text{ M}$

TOTAL LENGTH OF SPIRAL STIRRUPS = 150.4 m

REINFORCEMENT WEIGHT FOR ONE PILE (ton) =

2.143

شركة السعداء للمقاولات (ش.م.م.)

استشاري المحلة
محرم باخوم
مشروع :- توسعة الدائري عند تقاطع كوبري الحضرات
محرم باخوم

المحلة
شركة السعداء للمقاولات (ش.م.م.)

محرم باخوم

Bar Mark	Bar Details		Bar Shape (Dimensions are in m)	o Of Bars	Spacing (MM)	Total No of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes	
	Member	Direction Particular Placing Of Bar				NO. OF Bar	NO. OF Member	NO. OF Sets	Total Nos				STACG	Description
1		MAIN RFT	@ FIRST BAR		T25	-	1	1	1	20	12	3.858	925.92	
4		MAIN RFT	@ SEC BAR		T22	-	1	1	1	20	6.82	2.987	407.43	
3		RING COLAIR @ FIRST PART	RING COLAIR		T18	2000	9	1	1	9	2.7	2.000	48.60	
2		SPIRAL STIRRUPS			T12	40	59.65	1	1	60	12	0.889	636.35	
2		SPIRAL STIRRUPS			T12	100	12.65	1	1	13	12	0.889	134.95	

NOTES

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$
 $L = \frac{10}{0.04} (\pi(0.860 + 0.012) + (0.04 * 0.012)) = 684.99 \text{ M}$
 ADDITIONAL LENGTH FOR SPLICE
 NO. OF SPLICES $= \frac{H}{L} = \frac{684.99}{12} = 57.08 \sim 57 \text{ Nos}$
 LENGTH FOR SPLICES $= 57 * 0.72 = 41.04 \text{ M}$
 TOTAL LENGTH OF SPIRAL STIRRUPS $= 726.03 \text{ m}$

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$
 $L = \frac{532}{0.1} (\pi(0.860 + 0.012) + (0.10 * 0.012)) = 145.78 \text{ M}$
 ADDITIONAL LENGTH FOR SPLICE
 NO. OF SPLICES $= \frac{H}{L} = \frac{145.77}{12} = 12.15 \sim 12 \text{ Nos}$
 LENGTH FOR SPLICES $= 12 * 0.72 = 8.64 \text{ M}$
 TOTAL LENGTH OF SPIRAL STIRRUPS $= 154.42 \text{ m}$

REINFORCEMENT WEIGHT FOR ONE PILE (100n) =

2.153

المحلة
شركة السعداء للمقاولات (ش.م.م.)

استشاري المحلة
محرم باخوم

الشركة العامة

محرم باخوم

شركة السعداء للمقاولات (ش.م.م.)

Bar Mark	Bar Details		Bar Shape (Dimensions are in m)	o Of Bars	Spacing (MM)	Total No. of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes	
	Member	Particular Placing Of Bar				NO. OF Bar	NO. OF Member	NO. OF Sets	Total Nos				STACG	Description
1		MAIN RFT	@ FIRST BAR	T25	-	20	1	1	20	12	3.858	925.02		
4		MAIN RFT	@ SEC BAR	T22	-	20	1	1	20	5.57	2.987	332.75		
3		RING COLAIR @ FIRST PART	RING COLAIR	T18	2000	9	1	1	9	2.7	2.000	48.60		
2		SPIRAL STIRRUPS	R.C DIA = 1.00 M P = 0.04	T12	40	59.65	1	1	59.65	12	0.389	636.35		
2		SPIRAL STIRRUPS	R.C DIA = 1.00 M P = 0.10	T12	100	9.71	1	1	9.71	12	0.389	103.59		

NOTES

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$
 $L = \frac{10}{0.04} (\pi(0.860 + 0.012) + (0.04 * 0.012)) = 684.99 \text{ M}$

ADDITIONAL LENGTH FOR SPLICE

NO. OF SPLICES = $\frac{H}{L} = \frac{684.99}{12} = 57.08 \sim 57 \text{ Nos}$
 LENGTH FOR SPLICES = $57 * 0.72 = 41.04 \text{ M}$
 TOTAL LENGTH OF SPIRAL STIRRUPS = 726.03 m

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$
 $L = \frac{4.07}{0.1} (\pi(0.860 + 0.012) + (0.10 * 0.012)) = 111.52 \text{ M}$

ADDITIONAL LENGTH FOR SPLICE

NO. OF SPLICES = $\frac{H}{L} = \frac{111.52}{12} = 9.3 \sim 9 \text{ Nos}$
 LENGTH FOR SPLICES = $9 * 0.72 = 6.48 \text{ M}$
 TOTAL LENGTH OF SPIRAL STIRRUPS = 118 m

H : HEIGHT OF SPIRAL STIRRUPS (0.00~4.07 M)

P : PITCH OF SPIRAL STIRRUPS (0.04~0.10 M)

A : INNER DIA. OF SPIRAL STIRRUP (0.860M)

φ : DIA. OF SPIRAL STIRRUP (0.012 M)

SPIRAL SPLICE = 60 φ = 0.72M

REINFORCEMENT WEIGHT FOR ONE PILE (ton) =

2.047

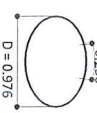
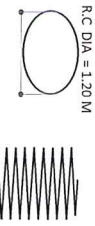
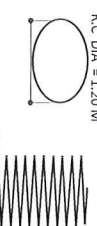
المالك
الهيئة العامة للطرق والكباري

المستشاري المالكة
مكتب محرم باخيم

الشركة المهندسة

محرم - باخيم

محرم - باخيم

Bar Mark	Bar Details			Bar Shape (Dimensions are in m)	No. of Bars	Spacing (mm)	Total No. of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes	
	Member	Direction	Particular Pacing Of Bar				NO. OF Bar	NO. OF Member	NO. OF Sets	Total Nos				STA/GC	Description
1		MAIN RFT	@ FIRST BAR		T25	-	30	1	1	30	12	3.858	1388.88		
4		MAIN RFT	@ SEC BAR		T22	-	30	1	1	30	4.95	2.987	443.57		
3		RING COLAIR @ FIRST PART	RING COLAIR		T16	1000	14	1	1	14	3.4	1.580	75.21		
2	PILE DA = 1.20 M														
				R.C DIA = 1.20 M	T12	40	44.09	1	1	44.09	12	0.889	470.35		
2					T12	100	11.77	1	1	11.77	12	0.889	125.56		
2					T12	150	6.75	1	1	6.75	12	0.889	72.01		

NOTES

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$
 $L = \frac{6}{0.04} (\pi(1.050 + 0.012) + (0.04 * 0.012)) = 501 \text{ M}$
 $L = \frac{4.00}{0.10} (\pi(1.050 + 0.012) + (0.10 * 0.012)) = 133.6 \text{ M}$
 ADDITIONAL LENGTH FOR SPLICE
 NO. OF SPLICES = $\frac{H}{L} = \sim \text{NOS}$
 LENGTH FOR SPLICES = $\text{NOS} * 0.72 = 41.04 \text{ M}$
 TOTAL LENGTH OF SPIRAL STIRRUPS = $L/\text{OS} + L_s$
 SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$
 $L = \frac{3.45}{0.15} (\pi(1.050 + 0.012) + (0.15 * 0.012)) = 76.82 \text{ M}$
 ADDITIONAL LENGTH FOR SPLICE
 NO. OF SPLICES = $\frac{H}{L} = \frac{76.82}{12} = 6.4 \sim 6 \text{ Nos}$
 LENGTH FOR SPLICES = $6 * 0.72 = 4.32 \text{ M}$
 TOTAL LENGTH OF SPIRAL STIRRUPS = 81.14 M
 H : HEIGHT OF SPIRAL STIRRUPS (10.00-3.45 M)
 P : PITCH OF SPIRAL STIRRUPS (0.04-0.15 M)
 A : INNER DIA. OF SPIRAL STIRRUP (1.050 M)
 ϕ : DIA. OF SPIRAL STIRRUP (0.012 M)
 SPIRAL SPLICE = $60 \phi = 0.72 \text{ M}$

REINFORCEMENT WEIGHT FOR ONE PILE (ton) =

2.576

المالك
الهيئة العامة للطرق والكباري

استشاري المالك
مكتب محرم باقم

الشركة المتحدة

Bar Mark	Bar Details		Bar Shape (Dimensions are in m)	No. Of Bars	Spacing (MM)	Total No. of Bars				Cutting length (m)	Unit Weight (kg/m)	Weight (kg)	Notes	
	Member	Particular Placing Of Bar				NO. OF Bar	NO. OF Member	NO. OF Sets	Total Nos				STACG	Description
1	MAIN RFT	@ FIRST BAR		T25	-	30	1	1	30	12	3.658	1388.88		
4	MAIN RFT	@ SEC BAR		T32	-	30	1	1	30	7.8	2.987	698.96		
3	RING COLAIR @ FIRST PART	RING COLAIR		T16	1000	16	1	1	16	3.4	1.580	85.95		
2	SPIRAL STIRRUPS			T12	40	44.09	1	1	44.09	12	0.889	470.35		
2	SPIRAL STIRRUPS			T12	100	11.77	1	1	11.77	12	0.889	125.56		
2	SPIRAL STIRRUPS			T12	150	12.32	1	1	12.32	12	0.889	131.43		

NOTES

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$
 $L = \frac{6}{0.04} (\pi(1.050 + 0.012) + (0.04 * 0.012)) = 501 \text{ M}$
 $L = \frac{400}{0.10} (\pi(1.050 + 0.012) + (0.10 * 0.012)) = 133.6 \text{ M}$
 ADDITIONAL LENGTH FOR SPLICE
 NO. OF SPLICES = $\frac{H}{L} = \frac{198.54}{12} = 13.2 \sim 13 \text{ Nos}$
 LENGTH FOR SPLICES = NOS * 0.72 = 41.04M
 TOTAL LENGTH OF SPIRAL STIRRUPS = 105.6M
 ADDITIONAL LENGTH FOR SPLICE
 NO. OF SPLICES = $\frac{H}{L} = \frac{198.54}{12} = 13.2 \sim 13 \text{ Nos}$
 LENGTH FOR SPLICES = NOS * 0.72 = 9.36 M
 TOTAL LENGTH OF SPIRAL STIRRUPS = 167.9 m

REINFORCEMENT WEIGHT FOR ONE PILE (ton) =

2,901

المالك
الهيئة العامة للطرق والكباري

استشاري المالكة
مكتب محرم باقوم

الشركة المنقذة
شركة السداد والمقاولات (ش.م.م.)

الشركة الممففة
شركة السعداء للمقاولات (ش.م.م.)

استشاري المالك

مکتب مصر باخونه

مشروع :- توسعه الدائري عند تقاطع كوبري الحضارات

حصر جدید تسلیح خوازیق محور (H20-Left) قطر ۲۰، ۱م

الهيئة العامة للطرق والكباري

المالك

Bar Mark	Bar Details			Bar Shape (Dimensions are in m)	o Of Bars	Spacing (MM)	Total № of Bars				Cutting length (m)	Unit Weight (Kg/m ³)	Weight (Kg)	Notes	
	Member	Direction	Particular Placing Of Bar				NO. OF Bar	NO. OF Member	NO. OF Sets	Total Nos				STAGG	Description
1		MAIN RFT	@ FIRST BAR		T25	-	30	1	1	30	12	3.858	1388.88		
2		RING COLAIR @ FIRST PART			T16	1000	10	1	1	10	3.4	1.580	53.72		
2		RING COLAIR													
2		SPIRAL STIRRUPS			T12	40	44.09	1	1	44.09	12	0.889	470.35		
2		SPIRAL STIRRUPS			T12	100	11.77	1	1	11.77	12	0.889	125.56		
PILE DA = 1.20 M SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$ $L = \frac{6}{0.04} (\pi(1.050 + 0.012) + (0.04 * 0.012)) = 501 \text{ M}$ $L = \frac{4.00}{0.10} (\pi(1.050 + 0.012) + (0.10 * 0.012)) = 133.6 \text{ M}$ ADDITIONAL LENGTH FOR SPLICE NO. OF SPLICES = $\frac{H}{L} = \sim NOS$ LENGTH FOR SPLICES = NOS * 0.72 = 41.04M TOTAL LENGTH OF SPIRAL STIRRUPS = 105 + L = 133.6 M SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$ $L = \frac{7.12}{0.15} (\pi(1.050 + 0.012) + (0.15 * 0.012)) = 158.54 \text{ M}$ ADDITIONAL LENGTH FOR SPLICE NO. OF SPLICES = $\frac{H}{L} = \frac{158.54}{12} = 13.2 \sim 13 \text{ NOS}$ LENGTH FOR SPLICES = 13 * 0.72 = 9.36 M TOTAL LENGTH OF SPIRAL STIRRUPS = 167.9 m H : HEIGHT OF SPIRAL STIRRUPS (10.00-3.45 M) P : PITCH OF SPIRAL STIRRUPS (0.04-0.15 M) A : INNER DIA. OF SPIRAL STIRRUP (1.050M) φ : DIA. OF SPIRAL STIRRUP (0.012 M) SPIRAL SPLICE = 60 φ = 0.72M															
REINFORCEMENT WEIGHT FOR ONE PILE (ton) = 2.039															

حصر حديد تسليح خوازيق منحور (H20-Rib) قطر ٢٠، ٢٥

Bar Mark	Bar Details		Bar Shape (Dimensions are in m)	n of Bars	Spacing (mm)	Total No. of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes	
	Member	Direction Particular Placing Of Bar				NO. OF Bar	NO. OF Member	NO. OF Sets	Total Nos				STAGG	Description
1	PILE DA = 1.20 M	MAIN RFT	@ FIRST BAR	T25	-	30	1	1	30	12	3.858	1388.88		
4		MAIN RFT	@ SEC BAR	T22	-	30	1	1	30	3.05	2.987	273.31		
3		RING COLAIR @ FIRST PART	RING COLAIR	T16	1000	12	1	1	12	3.4	1.580	64.46		
2		SPIRAL STIRRUPS	R.C DIA = 1.20 M P = 0.04	T12	40	44.09	1	1	44.09	12	0.889	470.35		
2	PILE DA = 1.20 M	SPIRAL STIRRUPS	R.C DIA = 1.20 M P = 0.10	T12	100	11.77	1	1	11.77	12	0.889	125.56		
2		SPIRAL STIRRUPS	R.C DIA = 1.20 M P = 0.15	T12	150	2.99	1	1	2.99	12	0.889	31.90		

NOTES

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$
 $L = \frac{6}{0.04} (\pi(1.050 + 0.012) + (0.04 * 0.012)) = 501.1$
 $L = \frac{400}{0.10} (\pi(1.050 + 0.012) + (0.10 * 0.012)) = 133.6$
 ADDITIONAL LENGTH FOR SPLICE
 NO. OF SPLICES $= \frac{H}{L} = \sim NOS$
 LENGTH FOR SPLICES = NOS * 0.72 = 41.04M
 TOTAL LENGTH OF SPIRAL STIRRUPS = 105.1M

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$
 $L = \frac{7.12}{0.15} (\pi(1.050 + 0.012) + (0.15 * 0.012)) = 158.54$
 ADDITIONAL LENGTH FOR SPLICE
 NO. OF SPLICES $= \frac{H}{L} = \frac{158.54}{12} = 13.2 \sim 13$ NOS
 LENGTH FOR SPLICES = 13 * 0.72 = 9.36 M
 TOTAL LENGTH OF SPIRAL STIRRUPS = 167.9 m

H : HEIGHT OF SPIRAL STIRRUPS (10.00-3.45 M)
 P : PITCH OF SPIRAL STIRRUPS (0.04-0.15 M)
 A : INNER DIA. OF SPIRAL STIRRUP (1.050M)
 Ø : DIA. OF SPIRAL STIRRUP (0.012 M)
 SPIRAL SPLICE = 60 Ø = 0.72M

REINFORCEMENT WEIGHT FOR ONE PILE (ton) =

2.354

المالك
الهيئة العامة للطرق والكباري

استشاري المالك
مكتب محرم باخفر

الشركة المنقذة
ش.م.م. حرم صهي




Bar Mark	Bar Details		Bar Shape (Dimensions are in m)	o Of Bars	Spacing (MM)	Total No. of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes	
	Member	Particular Placing Of Bar				NO. OF Bar	NO. OF Member	NO. OF Sets	Total Nos				STACG	Description
1		MAIN RFT	@ FIRST BAR	T25	-	20	1	1	20	12	3.858	925.92		
4		MAIN RFT	@ SEC BAR	T22	-	20	1	1	20	2.65	2.987	158.31		
3		RING COLAIR @ FIRST PART	RING COLAIR	T18	2000	8	1	1	8	2.7	2.000	43.20		
2		SPIRAL STIRRUPS	R.C DIA = 1.00 M P = 0.04	T12	40	59.65	1	1	59.65	12	0.389	636.35		
2		SPIRAL STIRRUPS	R.C DIA = 1.00 M P = 0.10	T12	100	2.69	1	1	2.69	12	0.389	28.70		

NOTES

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$
 $L = \frac{10}{0.04} (\pi(0.860 + 0.012) + (0.04 * 0.012)) = 684.99 \text{ M}$
 ADDITIONAL LENGTH FOR SPLICE
 NO. OF SPLICES = $\frac{H}{L} = \frac{684.99}{12} = 57.08 \sim 57 \text{ Nos}$
 LENGTH FOR SPLICES = $57 * 0.72 = 41.04 \text{ M}$
 TOTAL LENGTH OF SPIRAL STIRRUPS = 726.03 m

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$
 $L = \frac{11.4}{0.1} (\pi(0.860 + 0.012) + (0.10 * 0.012)) = 31.24 \text{ M}$
 ADDITIONAL LENGTH FOR SPLICE
 NO. OF SPLICES = $\frac{H}{L} = \frac{31.24}{12} = 2.6 \sim 2 \text{ Nos}$
 LENGTH FOR SPLICES = $2 * 0.72 = 1.44 \text{ M}$
 TOTAL LENGTH OF SPIRAL STIRRUPS = 32.68 m

H : HEIGHT OF SPIRAL STIRRUPS (10.00~4.07 M)
 P : PITCH OF SPIRAL STIRRUPS (0.04~0.10 M)
 A : INNER DIA. OF SPIRAL STIRRUP (0.860M)
 φ : DIA. OF SPIRAL STIRRUP (0.012 M)
 SPIRAL SPLICE = 60 φ = 0.72M

REINFORCEMENT WEIGHT FOR ONE PILE (10m) =

1.792

المالك

الهيئة العامة للطرق والكباري

استشاري المالك

مكتب مخبرم باخخم

الشركة المنقذة

3-3 طر

41-3

Bar Mark	Bar Details		Bar Shape (Dimensions are in m)	o Of Bars	Spacing (MM)	Total No. of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes	
	Member	Direction Particular Placing Of Bar				NO. OF Bar	NO. OF Member	NO. OF Sets	Total No.				STAGG	Description
1		MAIN RFT	@ FIRST BAR		T25	-	1	1	20	12	3.858	925.92		
4		MAIN RFT	@ SEC BAR		T22	-	1	1	20	3.57	2.987	213.27		
3		RING COLAIR @ FIRST PART	RING COLAIR		T18	2000	8	1	1	8	2.7	2.000	43.20	
2		SPIRAL STIRRUPS			T12	40	59.65	1	1	59.65	12	0.889	636.35	
2		SPIRAL STIRRUPS			T12	100	4.91	1	1	4.91	12	0.889	52.38	

NOTES

PILE DA = 1.00 M

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$
 $L = \frac{10}{0.04} (\pi(0.860 + 0.012) + (0.04 * 0.012)) = 684.99 \text{ M}$

ADDITIONAL LENGTH FOR SPLICE
 NO. OF SPLICES = $\frac{H}{L} = \frac{684.99}{12} = 57.08 \sim 57 \text{ Nos}$
 LENGTH FOR SPLICES = $57 * 0.72 = 41.04 \text{ M}$
 TOTAL LENGTH OF SPIRAL STIRRUPS = 726.03 m

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$
 $L = \frac{2.07}{0.1} (\pi(0.860 + 0.012) + (0.10 * 0.012)) = 56.72 \text{ M}$

ADDITIONAL LENGTH FOR SPLICE
 NO. OF SPLICES = $\frac{H}{L} = \frac{56.72}{12} = 4.7 \sim 4 \text{ Nos}$
 LENGTH FOR SPLICES = $4 * 0.72 = 2.88 \text{ M}$
 TOTAL LENGTH OF SPIRAL STIRRUPS = 59.6 m

H : HEIGHT OF SPIRAL STIRRUPS (10.00~4.07 M)
 P : PITCH OF SPIRAL STIRRUPS (0.04~0.10 M)
 A : INNER DIA. OF SPIRAL STIRRUP (0.860M)
 ϕ : DIA. OF SPIRAL STIRRUP (0.012 M)
 SPIRAL SPLICE = 60 ϕ = 0.72M

REINFORCEMENT WEIGHT FOR ONE PILE (10m) =

1.871

المالك
الهيئة العامة للطرق والكباري

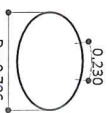
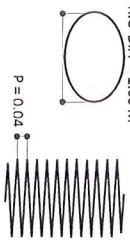
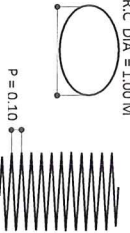
استشاري المالك
مكتب محرم باخميم

الشركة المنقذة

مكتب محرم باخميم

ش.م.م. كورس

مستشاري المالك
مكتب محرم باقوم
مشروع :- توسعة الدائري عند تقاطع كوبري الحضارات
حصر حديد تسليح خزانة محور (H23) قطر 1.0 م

Bar Mark	Bar Details			Bar Shape (Dimensions are in m)	No. Of Bars	Spacing (MM)	Total No. of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes	
	Member	Direction	Particular Placing Of Bar				NO. OF Bar	NO. OF Member	NO. OF Sets	Total Nos				STACG	Description
1	PILE DA = 1.00 M														
		MAIN RFT	@ FIRST BAR		T25	-	20	1	1	20	12	3.858	925.92		
4		MAIN RFT	@ SEC BAR		T22	-	20	1	1	20	3.55	2.987	212.08		
3		RING COLAIR FIRST PART	RING COLAIR		T18	2000	8	1	1	8	2.7	2.000	43.20		
2		SPIRAL STIRRUPS		T12	40	59.65	1	1	59.65	12	0.889	636.35			
2		SPIRAL STIRRUPS		T12	100	4.86	1	1	4.86	12	0.889	51.85			

NOTES

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$

$L = \frac{10}{0.04} (\pi(0.860 + 0.012) + (0.04 * 0.012)) = 684.99 \text{ M}$

ADDITIONAL LENGTH FOR SPLICE

NO. OF SPLICES $= \frac{H}{L_s} = \frac{684.99}{12} = 57.08 \sim 57 \text{ Nos}$

LENGTH FOR SPLICES $= 57 * 0.72 = 41.04 \text{ M}$

TOTAL LENGTH OF SPIRAL STIRRUPS $= 726.03 \text{ m}$

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$

$L = \frac{205}{0.1} (\pi(0.860 + 0.012) + (0.10 * 0.012)) = 56.72 \text{ M}$

ADDITIONAL LENGTH FOR SPLICE

NO. OF SPLICES $= \frac{H}{L_s} = \frac{56.72}{12} = 4.7 \sim 4 \text{ Nos}$

LENGTH FOR SPLICES $= 4 * 0.72 = 2.88 \text{ M}$

TOTAL LENGTH OF SPIRAL STIRRUPS $= 59.6 \text{ m}$

H : HEIGHT OF SPIRAL STIRRUPS (10.00~4.07 M)

P : PITCH OF SPIRAL STIRRUPS (0.04-0.10 M)

A : INNER DIA. OF SPIRAL STIRRUP (0.860M)

ϕ : DIA. OF SPIRAL STIRRUP (0.012 M)

SPIRAL SPLICE $= 60 \phi = 0.72 \text{M}$

REINFORCEMENT WEIGHT FOR ONE PILE (ton) =

1.869

NOTES

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$
 $L = \frac{10}{0.04} (\pi(0.860 + 0.012) + (0.04 * 0.012)) = 684.99 \text{ M}$
 NO. OF SPLICES = $\frac{H}{L} = \frac{684.99}{57.08} = 57.08 \sim 57 \text{ Nos}$
 LENGTH FOR SPLICES = $57 * 0.72 = 41.04 \text{ M}$
 TOTAL LENGTH OF SPIRAL STIRRUPS = 726.03 m

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$
 $L = \frac{205}{0.1} (\pi(0.860 + 0.012) + (0.10 * 0.012)) = 56.72 \text{ M}$
 NO. OF SPLICES = $\frac{H}{L} = \frac{56.72}{4.7} = 4.7 \sim 4 \text{ Nos}$
 LENGTH FOR SPLICES = $4 * 0.72 = 2.88 \text{ M}$
 TOTAL LENGTH OF SPIRAL STIRRUPS = 59.6 m

REINFORCEMENT WEIGHT FOR ONE PILE (ton) =

1.869

المالك
الشركة العامة للطرق والكباري

المستشاري المالك
مكتب محرم باقوم

الشركة المنقذة

ش.م.م. ك. م. م. م.

م. م. م. م. م.

استشاري المالك
مكتب محرم بالجزم
مشروع :- توسعة الدائري عند تقاطع كوبري الحضرات
محسن حديد تسليح خوازيق محور (H24) قطر 1.0 م

Bar Mark	Bar Details		Bar Shape (Dimensions are in m)	No. Of Bars	Spacing (MM)	Total No. of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes	
	Member	Direction Particular Placing Of Bar				NO. OF Bar	NO. OF Member	NO. OF Sets	Total Nos				STAGG	Description
1		MAIN RFT	@ FIRST BAR		T25	-	1	1	1	20	12	3.858	925.92	
4		MAIN RFT	@ SEC BAR		T22	-	1	1	1	20	3.65	2.987	218.05	
3		RING COLAIR @ FIRST PART	RING COLAIR		T18	2000	8	1	1	8	2.7	2.000	43.20	
2		SPIRAL STIRRUPS			T12	40	59.65	1	1	59.65	12	0.889	636.35	
2		SPIRAL STIRRUPS			T12	100	5.09	1	1	5.09	12	0.889	54.30	

NOTES

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$
 $L = \frac{10}{0.04} (\pi(0.860 + 0.012) + (0.04 * 0.012)) = 684.99 \text{ M}$
 NO. OF SPLICES $= \frac{H}{L} = \frac{684.99}{12} = 57.08 \sim 57 \text{ Nos}$
 LENGTH FOR SPLICES $= 57 * 0.72 = 41.04 \text{ M}$
 TOTAL LENGTH OF SPIRAL STIRRUPS $= 726.03 \text{ m}$

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$
 $L = \frac{215}{0.1} (\pi(0.860 + 0.012) + (0.10 * 0.012)) = 56.72 \text{ M}$
 NO. OF SPLICES $= \frac{H}{L} = \frac{56.72}{12} = 4.7 \sim 4 \text{ Nos}$
 LENGTH FOR SPLICES $= 4 * 0.72 = 2.88 \text{ M}$
 TOTAL LENGTH OF SPIRAL STIRRUPS $= 59.6 \text{ m}$

H : HEIGHT OF SPIRAL STIRRUPS (10.00-2.15 M)
 P : PITCH OF SPIRAL STIRRUPS (0.04-0.10 M)
 A : INNER DIA. OF SPIRAL STIRRUP (0.860M)
 φ : DIA. OF SPIRAL STIRRUP (0.012 M)
 SPIRAL SPLICE $= 60 \phi = 0.72 \text{ M}$

REINFORCEMENT WEIGHT FOR ONE PILE (ton) =

1.878

المالك
الهيئة العامة للطرق والكباري

استشاري المالك
مكتب محرم بالجزم

الشركة المنقذة

مكتب محرم بالجزم

الشركة المنقذة

Bar Mark	Bar Details		Bar Shape (Dimensions are in m)	No. Of Bars	Spacing (MM)	Total No. of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes	
	Member	Direction Particular Placing Of Bar				NO. OF Bar	NO. OF Member	NO. OF Sets	Total Nos				STAGG	Description
1	PILE DA = 1.00 M	MAIN RFT	@ FIRST BAR		T25	20	1	1	20	12	3.858	925.92		
4		MAIN RFT	@ SEC BAR		T22	20	1	1	20	3.35	2.987	200.13		
3		RING COLAIR FIRST PART	RING COLAIR		T18	2000	8	1	8	2.7	2.000	43.20		
2		SPIRAL STIRRUPS			T12	40	60.20	1	60.20	12	0.889	642.21		
2		SPIRAL STIRRUPS			T12	100	4.64	1	4.64	12	0.889	49.50		

NOTES

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$
 $L = \frac{10}{0.04} (\pi(0.860 + 0.012) + (0.04 * 0.012)) = 684.99 \text{ M}$

ADDITIONAL LENGTH FOR SPLICE
 NO. OF SPLICES $= \frac{H}{L} = \frac{684.99}{12} = 57.08 \sim 57 \text{ Nos}$
 LENGTH FOR SPLICES $= 57 * 0.72 = 41.04 \text{ M}$
 TOTAL LENGTH OF SPIRAL STIRRUPS $= 726.03 \text{ m}$

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$
 $L = \frac{205}{0.1} (\pi(0.860 + 0.012) + (0.10 * 0.012)) = 56.72 \text{ M}$

ADDITIONAL LENGTH FOR SPLICE
 NO. OF SPLICES $= \frac{H}{L} = \frac{56.72}{12} = 4.7 \sim 4 \text{ Nos}$
 LENGTH FOR SPLICES $= 4 * 0.72 = 2.88 \text{ M}$
 TOTAL LENGTH OF SPIRAL STIRRUPS $= 59.6 \text{ m}$

REINFORCEMENT WEIGHT FOR ONE PILE (ton) =

1.861

المالك
الهيئة العامة للطرق والكباري

استشاري المالك
مكتب محرم باقم

الشركة المنقذة

مكتب محرم باقم

شركة السعداء للمقاولات (ش.م.م.)

Bar Mark	Bar Details		Bar Shape (Dimensions are in m)	No. Of Bars	Spacing (mm)	Total No. of Bars				Cutting length (m)	Unit Weight (kg/m)	Weight (kg)	Notes	
	Member	Direction Particular Placing Of Bar				NO. OF Bar	NO. OF Member	NO. OF Sets	Total Nos				STAGG	Description
1	MAIN RFT		@ FIRST BAR	T25	-	20	1	1	20	6	3.858	462.96		
4	MAIN RFT		@ SEC BAR	T22	-	20	1	1	20	8.1	2.987	463.89		
3	RING COLAIR @ FIRST PART		RING COLAIR	T18	2000	7	1	1	7	2.7	2.000	37.80		
2	SPIRAL STIRRUPS		R.C DIA = 1.00 M P = 0.04	T12	40	26.84	1	1	26.84	12	0.889	286.33		
2	SPIRAL STIRRUPS		R.C DIA = 1.00 M P = 0.10	T12	100	15.71	1	1	15.71	12	0.889	167.59		

NOTES

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$
 $L = \frac{6.00}{0.04} (\pi(0.860 + 0.012) + (0.04 * 0.012)) = 205.53 \text{ M}$
 ADDITIONAL LENGTH FOR SPLICE
 NO. OF SPLICES $= \frac{H}{L} = \frac{205.53}{12} = 17.13 \sim 17 \text{ Nos}$
 LENGTH FOR SPLICES $= 17 * 0.72 = 12.24 \text{ M}$
 TOTAL LENGTH OF SPIRAL STIRRUPS $= 217.77 \text{ m}$

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$
 $L = \frac{6.00}{0.1}{\pi(0.860 + 0.012) + (0.10 * 0.012)) = 180.88 \text{ M}$
 ADDITIONAL LENGTH FOR SPLICE
 NO. OF SPLICES $= \frac{H}{L} = \frac{180.88}{12} = 15.07 \sim 15 \text{ Nos}$
 LENGTH FOR SPLICES $= 15 * 0.72 = 10.8 \text{ M}$
 TOTAL LENGTH OF SPIRAL STIRRUPS $= 191.68 \text{ m}$

H : HEIGHT OF SPIRAL STIRRUPS (6.00-6.60 M)
 P : PITCH OF SPIRAL STIRRUPS (0.04-0.10 M)
 A : INNER DIA. OF SPIRAL STIRRUP (0.860M)
 φ : DIA. OF SPIRAL STIRRUP (0.012 M)
 SPIRAL SPLICE = 60 φ = 0.72M

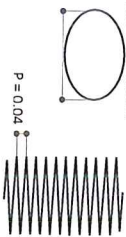
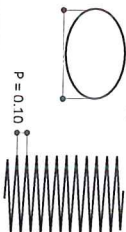
REINFORCEMENT WEIGHT FOR ONE PILE (ton) =

1.439

المالك
الهيئة العامة للطرق والكباري

المستشاري المالكة
مكتب محرم باخوم

الشركة المنقذة

Bar Mark	Bar Details		Bar Shape (Dimensions are in m)	o Of Bars	Spacing (MM)	Total N° of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes	
	Member	Direction Particular Placing Of Bar				NO. OF Bar	NO. OF Member	NO. OF Sets	Total Nos				STAGG	Description
1	PILE DA =0.80 M	MAIN RFT	@ FIRST BAR	T25	-	20	1	1	20	6	3.858	462.96		
4		MAIN RFT	@ SEC BAR	T22	-	20	1	1	20	7.1	2.987	424.15		
3		RING COLAIR @ FIRST PART	RING COLAIR	T16	1000	10	1	1	10	2.00	1.580	31.60		
2		SPIRAL STIRRUPS		T12	40	20.59	1	1	20.59	12	0.889	219.65		
2		SPIRAL STIRRUPS		T12	100	10.22	1	1	10.22	12	0.889	109.03		

NOTES

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$

$L = \frac{6.00}{0.08} (\pi(0.660 + 0.012) + (0.08 * 0.012)) = 158.41 \text{ M}$

ADDITIONAL LENGTH FOR SPLICE

NO. OF SPLICES $= \frac{H}{L} = \frac{158.41}{12} = 13.20 \sim 13 \text{ Nos}$

LENGTH FOR SPLICES $= 13 * 0.72 = 9.36 \text{ M}$

TOTAL LENGTH OF SPIRAL STIRRUPS $= 167.77 \text{ m}$

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$

$L = \frac{5.60}{0.1} (\pi(0.660 + 0.012) + (0.10 * 0.012)) = 118.29 \text{ M}$

ADDITIONAL LENGTH FOR SPLICE

NO. OF SPLICES $= \frac{H}{L} = \frac{118.29}{12} = 9.86 \sim 9 \text{ Nos}$

LENGTH FOR SPLICES $= 9 * 0.72 = 6.48 \text{ M}$

TOTAL LENGTH OF SPIRAL STIRRUPS $= 124.77 \text{ m}$

REINFORCEMENT WEIGHT FOR ONE PILE (ton) =

1.247

NOTES

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$
 $L = \frac{6.00}{0.04} (\pi(0.660 + 0.012) + (0.08 * 0.012)) = 158.41 \text{ M}$

ADDITIONAL LENGTH FOR SPLICE
 NO. OF SPLICES = $\frac{H}{L} = \frac{158.41}{12} = 13.20 \sim 13 \text{ Nos}$
 LENGTH FOR SPLICES = $13 * 0.72 = 9.36 \text{ M}$
 TOTAL LENGTH OF SPIRAL STIRRUPS = 167.77 m

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$
 $L = \frac{5.60}{0.10} (\pi(0.660 + 0.012) + (0.10 * 0.012)) = 118.29 \text{ M}$

ADDITIONAL LENGTH FOR SPLICE
 NO. OF SPLICES = $\frac{H}{L} = \frac{118.29}{12} = 9.86 \sim 9 \text{ Nos}$
 LENGTH FOR SPLICES = $9 * 0.72 = 6.48 \text{ M}$
 TOTAL LENGTH OF SPIRAL STIRRUPS = 124.77 m

REINFORCEMENT WEIGHT FOR ONE PILE (ton) =

1.247

المالك

الهيئة العامة للطرق والكباري

استشاري المالك

مكتب محرم باخريم

الشركة المنقذة

Bar Mark	Bar Details		Bar Shape (Dimensions are in m)	Ø Of Bars	Spacing (MM)	Total No. of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes	
	Member	Direction	Particular Pacing Of Bar			NO. OF Bar	NO. OF Member	NO. OF Sets	Total Nos				STACG	Description
1		MAIN RFT	@ FIRST BAR			20	1	1	20	6	3.858	462.96		
4		MAIN RFT	@ SEC BAR			20	1	1	20	7.1	2.987	424.15		
3		RING COLAIR @ FIRST PART	RING COLAIR			1000	10	1	10	2.00	1.580	31.60		
2		SPIRAL STIRRUPS	R.C DIA = 0.80 M P = 0.04			40	27.43	1	27.43	12	0.389	292.62		
2		SPIRAL STIRRUPS	R.C DIA = 0.80 M P = 0.10			100	10.22	1	10.22	12	0.389	109.03		

NOTES

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$
 $L = \frac{6.00}{0.08} (\pi(0.660 + 0.012) + (0.08 * 0.012)) = 158.41 \text{ M}$

ADDITIONAL LENGTH FOR SPLICE
 NO. OF SPLICES = $\frac{H}{L} = \frac{158.41}{12} = 13.20 \sim 13 \text{ Nos}$
 LENGTH FOR SPLICES = $13 * 0.72 = 9.36 \text{ M}$
 TOTAL LENGTH OF SPIRAL STIRRUPS = 167.77 m

SPIRAL LENGTH $L = \frac{H}{P} (\pi(A + \phi) + (P * \phi))$
 $L = \frac{5.60}{0.1} (\pi(0.660 + 0.012) + (0.10 * 0.012)) = 118.29 \text{ M}$

ADDITIONAL LENGTH FOR SPLICE
 NO. OF SPLICES = $\frac{H}{L} = \frac{118.29}{12} = 9.86 \sim 9 \text{ Nos}$
 LENGTH FOR SPLICES = $9 * 0.72 = 6.48 \text{ M}$
 TOTAL LENGTH OF SPIRAL STIRRUPS = 124.77 m

H : HEIGHT OF SPIRAL STIRRUPS (6.00-6.60 M)
 P : PITCH OF SPIRAL STIRRUPS (0.04-0.10 M)
 A : INNER DIA. OF SPIRAL STIRRUP (0.660M)
 Ø : DIA. OF SPIRAL STIRRUP (0.012 M)
 SPIRAL SPLICE = 60 Ø = 0.72M

REINFORCEMENT WEIGHT FOR ONE PILE (ton) =

1.320

المالك

الهيئة العامة للطرق والكباري

استشاري المالك

مكتب مصر بالخميس

الشركة المنقذة

الهيئة العامة للطرق والكباري

١٨٠٩ م اقل (٢ / ٥) حله استاج و رص كتيب و تيريشكيل و يوريت اعمال

(الحجرات) (5) في (الأنبياء) (11) في (سورة) :- 3 مشهور

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[illegible][illegible]

م	رقم المحور	(طن) الوزن الكاروق الواحد ب (طن) وزن الكاروق	عدد القوا بعد بالمحور	(طن) إجمالي الوزن ب
1	H26		1	
2	H27	5.521	1	5.521
3	H28		1	
4	H29		1	
5	H30		1	
6	H31		1	
7	H32		1	
8	H33		1	
9	H34		1	
10	H35		1	
11	H36		1	
12	H37		1	
13	H38		1	
14	H39		1	
15	H40		1	
16	H41		1	
17	H42		1	
18	H43		1	
19	H44		1	
20	H45		1	
21	H46		1	
22	H47		1	
23	H48		1	
24	H49		1	
25	H50		1	
26	H51		1	
27	H52		1	
28	H53		1	
29	H54		1	
30	H55		1	
31	H56		1	
				5.521

פדור

استشاری الاسلامی

المادة 55

Chlorophyll

2. 10

مستشاري المالك
مكتب مصر بالقيوم
مشروع :- توسعة الدائري عند تقاطع كوبري الحضارات
مصدر جديد لتبليغ قاعدة محور (H28) أبعاد 9 * 9 م

Bar Mark	Bar Details			Bar Shape (Dimensions are in m)	Ø Of Bars	Spacing (MM)	Total No of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes	
	Member	Direction	Particular Pacing Of Bar				NO. OF Bar	NO. OF Member	NO. OF Sets	Total Nos				STA/CG	Description
1	Column R.F.T			Short BAR	T32	-	28	1	1	28	4	6.321	707.952	✓	
2	Column R.F.T			Long BAR	T32	-	28	1	1	28	6	6.321	1061.928	✓	
3	PileCap R.F.T.			Bottom RFT	T25	125	70	1	1	70	7.00	3.858	1890.42		
4	PileCap R.F.T.			Side Bars RFT	T16	100	15	1	1	15	7.10	1.580	168.27	✓	
5	PileCap R.F.T.			Side Bars RFT	T16	100	15	1	1	15	12.00	1.580	284.40	✓	
6	Column R.F.T			Inner stirrups	T12	100	32	1	1	32	2.30	0.889	65.43	✓	
7	Column R.F.T			Inner stirrups	T12	100	32	1	1	32	1.70	0.889	48.36	✓	
8	Column R.F.T			Inner stirrups	T12	100	32	1	1	32	2.50	0.889	71.12	✓	
9	Column R.F.T			Inner stirrups	T12	100	32	1	1	32	1.71	0.889	48.65	✓	
10	Column R.F.T			Inner stirrups	T12	100	32	1	1	32	3.90	0.889	110.95	✓	
11	Column R.F.T			Inner stirrups	T12	100	32	1	1	32	1.92	0.889	54.62	✓	
12	Column R.F.T			Inner stirrups	T16	100	32	1	1	32	3.35	1.580	169.38	✓	
13	PileCap R.F.T.	Top RFT	Both Directions		T18	125	70	1	1	70	6	2.000	840.00		
REINFORCEMENT WEIGHT FOR ONE PILECAP H28 (100) =														5.521	

المالك
الهيئة العامة للطرق والكباري

المستشاري المالك
مكتب مصر بالقيوم

الشركة المصنعة
مصر

مصر

مصر

(۱) احسان الی (کونی) فی الدنیا و الآخرة :-

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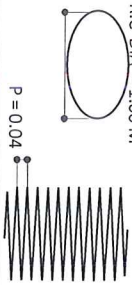
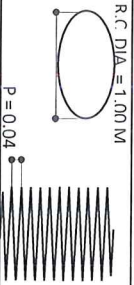
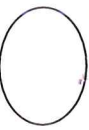
181

البيانات الكمية الكمية (Ductility) لزيادة B500 DWR حيث يتراوح من 0.00 إلى 0.01

م	رقم المحور	(بالطن) وحدة التسلح	المتاح	المتاح	المتاح
1	H01-L	1.870	1.980	1.918	2.014
2	H01-R	1.980	1.918	2.014	0.000
3	H02-L	1.918	2.014	0.000	1.948
4	H02-R	2.014	0.000	1.948	1.998
5	H03-L	0.000	1.948	1.998	2.001
6	H04-L	1.948	1.998	2.001	2.026
7	H05-L	1.998	2.001	2.026	2.102
8	H06-L	2.001	2.026	2.102	2.103
9	H06-R	2.026	2.102	2.103	2.230
10	H07-L	2.102	2.103	2.230	2.229
11	H07-R	2.103	2.230	2.229	2.306
12	H08-L	2.230	2.229	2.306	2.354
13	H09-L	2.229	2.306	2.354	2.411
14	H10-L	2.306	2.354	2.411	2.487
15	H12-L	2.354	2.411	2.487	2.564
16	H13-L	2.411	2.487	2.564	2.510
17	H14-L	2.487	2.564	2.510	2.411
18	H15-L	2.564	2.510	2.411	2.354
19	H15-R	2.510	2.411	2.354	2.493
20	H16-L	2.411	2.354	2.493	2.435
21	H16-R	2.354	2.493	2.435	2.574
22	H17-L	2.493	2.435	2.574	2.516
23	H17-R	2.435	2.574	2.516	2.452
24	H19-L	2.574	2.516	2.452	2.571
25	H19-R	2.516	2.452	2.571	2.846
26	H20-L	2.452	2.571	2.846	2.897
27	H20-R	2.571	2.846	2.897	2.948
28	H21-L	2.846	2.897	2.948	3.000
29	H22-L	2.897	2.948	3.000	3.049
30	H23-L	2.948	3.000	3.049	
31	H24-L	3.000			
32	H25-L	3.049			
		إجمالي كمية وحدة التسلح (بالطن)	73.595		

مشروع :- توسعة الدائري عند تقاطع محور الحضارات

جدول حديد تسليح اعمدة محور (H01-Left) - عمود دائري

Bar Mark	Bar Details			Bar Shape (Dimensions are in m)	ø Of Bars	Spacing	Total No. of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes		
	Member	Direction	Particular Placing Of				NO. Of Bar	NO. Of Member	NO. Of Sets	Total Nos				STAGG	Description	
6	Column	Main Rft	Outer Main		T32	-	30	1	1	30	6.70	6.321	1270.52			
2		Stirrups	Main Spiral		T12	40	30.99	1	1	30.99	12.00	0.889	330.60			
3		Main Rft	Internal Main		T22	-	30	1	1	30	2.40	2.987	215.06			
4		Stirrups	ADD. Spiral		T12	100	3.64	1	1	3.64	12.00	0.889	38.83			
5		Stirrups	Ring For Main		T16	-	2	1	1	2	2.70	1.580	8.53			
7		Stirrups	Ring For ADD.		T16	-	2	1	1	2	2.00	1.580	6.32			
REINFORCEMENT WEIGHT FOR Column @ H01 - LEFT (ton) =														1.870		

المالك

الهيئة العامة للطرق والكباري

استشاري المالك

مكتب محرم باخوم

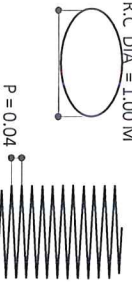
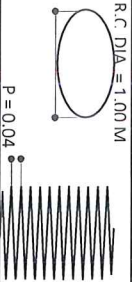
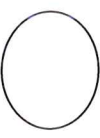
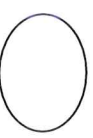
محرم باخوم

الشركة المنفذة

شركة السعاه

مشروع :- توسعة الدائري عند تقاطع محور الحضارات

جدول حصر جديد تسليح اعمدة محور (H01-Right) - عمود دائري

Bar Mark	Bar Details			Bar Shape (Dimensions are in m)	ø Of Bars	Spacing	Total No of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes	
	Member	Direction	Structural Placing Of				NO. Of Bar	NO. Of Member	NO. Of Sets	Total Nos				STAGG	Description
1	Column	Main Rft	Outer Main		T32	-	30	1	1	30	7.12	6.321	1350.17		
2		Stirrups	Main Spiral		T12	40	33.85	1	1	33.85	12.00	0.889	361.11		
3		Main Rft	Internal Main		T22	-	30	1	1	30	2.40	2.987	215.06		
4		Stirrups	ADD. Spiral		T12	100	3.64	1	1	3.64	12.00	0.889	38.83		
5		Stirrups	Ring For Main		T16	-	2	1	1	2	2.70	1.580	8.53		
7		Stirrups	Ring For ADD.		T16	-	2	1	1	2	2.00	1.580	6.32		
REINFORCEMENT WEIGHT FOR Column @ H01 - Right (ton) =													1.980		

المالك
الهيئة العامة للطرق والكباري

استشاري المال
مكتب محرم باخوم

الشركة المنفذة

شركة السعاء

مشروع :- توسعة الدائري عند تقاطع محور الحضارات

جدول حصر تسليح اعمدة محور (H02-Left) - عمود دائري

Bar Mark	Bar Details		Bar Shape (Dimensions are in m)	Ø Of Bars	Spacing	Total No of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes	
	Member	Direction	Particular Placing Of			NO. Of Bar	NO. Of Member	NO. Of Sets	Total Nos				STAGG	Description
6	Column	Main Rft	Outer Main	T32	-	30	1	1	30	6.90	6.321	1308.45		
2		Stirrups	Main Spiral	T12	40	31.96	1	1	31.96	12.00	0.889	340.95		
3		Main Rft	Internal Main	T22	-	30	1	1	30	2.40	2.987	215.06		
4		Stirrups	ADD. Spiral	T12	100	3.64	1	1	3.64	12.00	0.889	38.83		
5		Stirrups	Ring For Main	T16	-	2	1	1	2	2.70	1.580	8.53		
7		Stirrups	Ring For ADD.	T16	-	2	1	1	2	2.00	1.580	6.32		
REINFORCEMENT WEIGHT FOR Column @ H02 - LEFT (ton) =													1.918	

المالك

الهيئة العامة للطرق والكباري

استشاري المالك

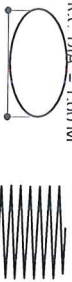
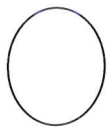
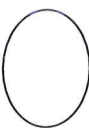
مكتب محرم ياخوم

الشركة المنفذة

شركة السعداء

مشروع :- توسعة الدائري عند تقاطع محور الحضارات

جدول حصر حديد تسليح اعمدة محور (H02-Right) - عمود دائري

Bar Mark	Bar Details			Bar Shape (Dimensions are in m)	ø Of Bars	Spacing	Total No of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes	
	Member	Direction	Particular Placing Of				NO. Of Bar	NO. Of Member	NO. Of Sets	Total Nos				STAGG	Description
1	Column	Main Rft	Outer Main		T32	-	30	1	1	30	7.25	6.321	1374.82		
2		Stirrups	Main Spiral		T12	40	34.68	1	1	34.68	12.00	0.889	369.97		
3		Main Rft	Internal Main		T22	-	30	1	1	30	2.40	2.987	215.06		
4		Stirrups	ADD. Spiral		T12	100	3.64	1	1	3.64	12.00	0.889	38.83		
5		Stirrups	Ring For Main		T16	-	2	1	1	2	2.70	1.580	8.53		
7		Stirrups	Ring For ADD.		T16	-	2	1	1	2	2.00	1.580	6.32		
		REINFORCEMENT WEIGHT FOR Column @ H02 - Right (ton) =													2.014

المالك

استشاري المالك

الشركة المنفذة

الهيئة العامة للطرق والكباري

مكتب محرم باخوم

الشركة المنفذة

مشروع :- توسعة الدائري عند تقاطع محور الحضارات

جدول حصر حديد تسليح اعمدة محور (H04-Left) - عمود دائري

Bar Mark	Bar Details			Bar Shape (Dimensions are in m)	ø Of Bars	Spacing	Total No of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes	
	Member	Direction	Particular Placing Of				NO. Of Bar	NO. Of Member	NO. Of Sets	Total Nos				STAGG	Description
6	Column	Main Rft	Outer Main		T32	-	30	1	1	30	7.00	6.321	1327.41		
2		Stirrups	Main Spiral		T12	40	32.97	1	1	32.97	12.00	0.889	351.72		
3		Main Rft	Internal Main		T22	-	30	1	1	30	2.40	2.987	215.06		
4		Stirrups	ADD. Spiral		T12	100	3.64	1	1	3.64	12.00	0.889	38.83		
5		Stirrups	Ring For Main		T16	-	2	1	1	2	2.70	1.580	8.53		
7		Stirrups	Ring For ADD.		T16	-	2	1	1	2	2.00	1.580	6.32		
REINFORCEMENT WEIGHT FOR Column @ H04 - LEFT (ton) =														1.948	

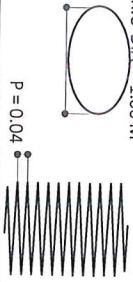
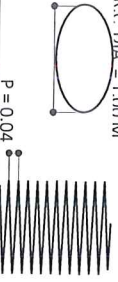
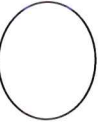
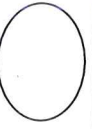
المالك
الهيئة العامة للطرق والكباري

استشاري المالك
مكتب محرم باخوم

الشركة المنفذة

مشروع :- توسعة الدائري عند تقاطع محور الحضارات

جدول حصر حديد تسليح اعمدة محور (H05-Left) - عمود دائري

Bar Mark	Bar Details			Bar Shape (Dimensions are in m)	ø Of Bars	Spacing	Total No. of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes	
	Member	Direction	Particular Placing Of				NO. Of Bar	NO. Of Member	NO. Of Sets	Total Nos				STAGC	Description
6	Column	Main Rft	Outer Main		T32	-	30	1	1	30	7.20	6.321	1365.34		
2		Stirrups	Main Spiral		T12	40	34.14	1	1	34.14	12.00	0.889	364.21		
3		Main Rft	Internal Main		T22	-	30	1	1	30	2.40	2.987	215.06		
4		Stirrups	ADD. Spiral		T12	100	3.64	1	1	3.64	12.00	0.889	38.83		
5		Stirrups	Ring For Main		T16	-	2	1	1	2	2.70	1.580	8.53		
7		Stirrups	Ring For ADD.		T16	-	2	1	1	2	2.00	1.580	6.32		
REINFORCEMENT WEIGHT FOR Column @ H05 - LEFT (ton) =														1.998	
المجموع															

المالك

الهيئة العامة للطرق والكباري

استشاري المالك

مكتب محرم باخوم

الشركة المنفذة

شركة السعداء

مشروع :- توسعة الدائري عند تقاطع محور الحضارات

جدول حصر حديد تسليح اعمدة محور (H06-Left) - عمود دائري

Bar Mark	Bar Details		Bar Shape (Dimensions are in m)	No. Of Bars	Spacing	Total No. of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes	
	Member	Direction	Particular Pacing Of			NO. Of Bar	NO. Of Member	NO. Of Sets	Total Nos				STAGG	Description
6	Column	Main Rft	Outer Main	T32	-	30	1	1	30	7.20	6.321	1365.34		
2		Stirrups	Main Spiral	T12	40	34.38	1	1	34.38	12.00	0.889	366.77		
3		Main Rft	Internal Main	T22	-	30	1	1	30	2.40	2.987	215.06		
4		Stirrups	ADD. Spiral	T12	100	3.64	1	1	3.64	12.00	0.889	38.83		
5		Stirrups	Ring For Main	T16	-	2	1	1	2	2.70	1.580	8.53		
7		Stirrups	Ring For ADD.	T16	-	2	1	1	2	2.00	1.580	6.32		
REINFORCEMENT WEIGHT FOR Column @ H06 - LEFT (ton) =													2.001	

المالك
الهيئة العامة للطرق والكباري

استشاري المالك
مكتب محرم باخوم

محرم باخوم

الشركة المنفذة

شركة السعداء

مشروع :- توسعة الدائري عند تقاطع محور الحضارات

جدول حصر حديد تسليح اعمدة محور (H06-Right) - عمود دائري

Bar Mark	Bar Details			Bar Shape (Dimensions are in m)	ø Of Bars	Spacing	Total No of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes		
	Member	Direction	Particular Placing Of				NO. Of Bar	NO. Of Member	NO. Of Sets	Total Nos				STAGG	Description	
6	Column			Main Rft	Outer Main	T32	-	30	1	1	30	7.30	6.321	1384.30		
2	Column			Stirrups	Main Spiral	T12	40	34.97	1	1	34.97	12.00	0.889	373.06		
3	Column			Main Rft	Internal Main	T22	-	30	1	1	30	2.40	2.987	215.06		
4	Column			Stirrups	ADD. Spiral	T12	100	3.64	1	1	3.64	12.00	0.889	38.83		
5	Column			Stirrups	Ring For Main	T16	-	2	1	1	2	2.70	1.580	8.53		
7	Column			Stirrups	Ring For ADD.	T16	-	2	1	1	2	2.00	1.580	6.32		
REINFORCEMENT WEIGHT FOR Column @ H06 - Right (ton) = 2.026																

المالك

الهيئة العامة للطرق والكباري

استشاري المالك

مكتب محرم ياخوم

محرم ياخوم

الشركة المنفذة

شركة السعداء

مشروع :- توسعة الدائري عند تقاطع محور الحضارات

جدول حصر حديد تسليح اعمدة محور (H07-Left) - عمود دائري

Bar Mark	Bar Details			Bar Shape (Dimensions are in m)	ø Of Bars	Spacing	Total No of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes	
	Member	Direction	Particular Placing Of				NO. Of Bar	NO. Of Member	NO. Of Sets	Total Nos				STAGG	Description
6	Column	Main Rft	Outer Main		T32	-	30	1	1	30	7.60	6.321	1441.19		
2		Stirrups	Main Spiral		T12	40	36.74	1	1	36.74	12.00	0.889	391.94		
3		Main Rft	Internal Main		T22	-	30	1	1	30	2.40	2.987	215.06		
4		Stirrups	ADD. Spiral		T12	100	3.64	1	1	3.64	12.00	0.889	38.83		
5		Stirrups	Ring For Main		T16	-	2	1	1	2	2.70	1.580	8.53		
7		Stirrups	Ring For ADD.		T16	-	2	1	1	2	2.00	1.580	6.32		
REINFORCEMENT WEIGHT FOR Column @ H07 - LEFT (ton) =														2.102	

المالك

الهيئة العامة للطرق والكباري

استشاري المالك

مكتب محرم باخوم

محرم باخوم

الشركة المنفذة

شركة السعداء



الشركة المنفذة

شركة السعداء للمقاولات (ش.م.م.)



المهندسون الاستشاريون العرب
محرم - باخوم

استشاري المالك

مكتب محرم باخوم



المالك

الهيئة العامة للطرق والكباري

مشروع :- توسعة الدائري عند تقاطع محور الحضارات

جدول حصر حديد تسليح اعمدة محور (H07-Right) - عمود دائري

Bar Mark	Bar Details			Bar Shape (Dimensions are in m)	ø Of Bars	Spacing	Total No of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes	
	Member	Direction	Reinforcement Placing Of				NO. Of Bar	NO. Of Member	NO. Of Sets	Total Nos				STAGG	Description
6	Column	Main Rft	Outer Main		T32	-	30	1	1	30	7.60	6.321	1441.19		
2		Stirrups	Main Spiral		T12	40	36.8	1	1	36.8	12.00	0.889	392.58		
3		Main Rft	Internal Main		T22	-	30	1	1	30	2.40	2.987	215.06		
4		Stirrups	ADD. Spiral		T12	100	3.64	1	1	3.64	12.00	0.889	38.83		
5		Stirrups	Ring For Main		T16	-	2	1	1	2	2.70	1.580	8.53		
7		Stirrups	Ring For ADD.		T16	-	2	1	1	2	2.00	1.580	6.32		
REINFORCEMENT WEIGHT FOR Column @ H07 - Right (ton) =													2.103		

المالك

الهيئة العامة للطرق والكباري

استشاري المالك

مكتب محرم باخوم

الشركة المنفذة

شركة السعداء



الشركة المنفذة

شركة السعداء للمقاولات (ش.م.م.)



المهندسون الاستشاريون العرب
محرم - ياخوم

استشاري المالك

مكتب محرم ياخوم



الملك

الهيئة العامة للطرق والكباري

مشروع :- توسعة الدائري عند تقاطع محور الحضارات

جدول حصر حديد تسليح اعمدة محور (H08-Left) - عمود دائري

Bar Mark	Bar Details			Bar Shape (Dimensions are in m)	ø Of Bars	Spacing	Total No of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes			
	Member	Direction	Particular Placing Of				NO. Of Bar	NO. Of Member	NO. Of Sets	Total Nos				STAGG	Description		
6	Column	Main Rft	Outer Main		T32	-	30	1	1	30	8.10	6.321	1536.00				
2		Stirrups	Main Spiral		T12	40	39.89	1	1	39.89	12.00	0.889	425.55				
3		Main Rft	Internal Main		T22	-	30	1	1	30	2.40	2.987	215.06				
4		Stirrups	ADD. Spiral		T12	100	3.64	1	1	3.64	12.00	0.889	38.83				
5		Stirrups	Ring For Main		T16	-	2	1	1	2	2.70	1.580	8.53				
7		Stirrups	Ring For ADD.		T16	-	2	1	1	2	2.00	1.580	6.32				
REINFORCEMENT WEIGHT FOR Column @ H08 - LEFT (ton) =															2.230		

الملك

الهيئة العامة للطرق والكباري

استشاري المالك

مكتب محرم ياخوم

الشركة المنفذة

شركة السعداء

مشروع :- توسعة الدائري عند تقاطع محور الحضارات

جدول حصر حديد تسليح اعمدة محور (H09-Left) - عمود دائري

Bar Mark	Bar Details			Bar Shape (Dimensions are in m)	ø Of Bars	Spacing	Total No of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes		
	Member	Direction	Particular Placing Of				NO. Of Bar	NO. Of Member	NO. Of Sets	Total Nos				STAGG	Description	
6	Column	Main Rft	Outer Main		T32	-	30	1	1	30	8.10	6.321	1536.00			
2		Stirrups	Main Spiral		T12	40	39.8	1	1	39.8	12.00	0.889	424.59			
3		Main Rft	Internal Main		T22	-	30	1	1	30	2.40	2.987	215.06			
4		Stirrups	ADD. Spiral		T12	100	3.64	1	1	3.64	12.00	0.889	38.83			
5		Stirrups	Ring For Main		T16	-	2	1	1	2	2.70	1.580	8.53			
7	Stirrups	Ring For ADD.		T16	-	2	1	1	2	2.00	1.580	6.32				
REINFORCEMENT WEIGHT FOR Column @ H09 - LEFT (ton) =														2.229		

المالك

الهيئة العامة للطرق والكباري

استشاري المالك

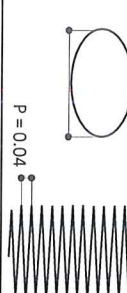
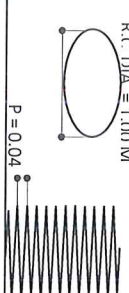
مكتب محرم باخوم

الشركة المنفذة

ش.م.م.

مشروع :- توسعة الدائري عند تقاطع محور الحضارات

جدول حصر حديد تسليح اعمدة محور (H10-Left) - عمود دائري

Bar Mark	Bar Details			Bar Shape (Dimensions are in m)	ø Of Bars	Spacing	Total No of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes		
	Member	Direction	Particular Placing Of				NO. Of Bar	NO. Of Member	NO. Of Sets	Total Nos				STAGG	Description	
6	Column	Main Rft	Outer Main		T32	-	30	1	1	30	8.40	6.321	1592.89			
2		Stirrups	Main Spiral		T12	40	41.63	1	1	41.63	12.00	0.889	444.11			
3		Main Rft	Internal Main		T22	-	30	1	1	30	2.40	2.987	215.06			
4		Stirrups	ADD. Spiral		T12	100	3.64	1	1	3.64	12.00	0.889	38.83			
5		Stirrups	Ring For Main		T16	-	2	1	1	2	2.70	1.580	8.53			
7		Stirrups	Ring For ADD.		T16	-	2	1	1	2	2.00	1.580	6.32			
REINFORCEMENT WEIGHT FOR Column @ H10 - LEFT (ton) =														2.306		

المالك

الهيئة العامة للطرق والكباري

استشاري المالك

مكتب محرم ياقوم

الشركة المنفذة



الشركة المنفذة

شركة السعداء للمقاولات (ش.م.م.)



المهندسون الاستشاريون العرب
محرم - باخوم

استشاري المالك

مكتب محرم باخوم

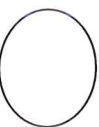
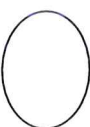


المالك

الهيئة العامة للطرق والكباري

مشروع :- توسعة الدائري عند تقاطع محور الحضارات

جدول حصر حديد تسليح اعمدة محور (H12-Left) - عمود دائري

Bar Mark	Bar Details			Bar Shape (Dimensions are in m)	ø Of Bars	Spacing	Total No of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes		
	Member	Direction	Placing Of				NO. Of Bar	NO. Of Member	NO. Of Sets	Total Nos				STAGG	Description	
6	Main Rft				T32	-	30	1	1	30	8.60	6.321	1630.82			
2	Stirrups				T12	40	42.63	1	1	42.63	12.00	0.889	454.78			
3	Main Rft				T22	-	30	1	1	30	2.40	2.987	215.06			
4	Stirrups				T12	100	3.64	1	1	3.64	12.00	0.889	38.83			
5	Stirrups				T16	-	2	1	1	2	2.70	1.580	8.53			
7	Stirrups				T16	-	2	1	1	2	2.00	1.580	6.32			
REINFORCEMENT WEIGHT FOR Column @ H12 - LEFT (ton) =														2.354		

المالك

الهيئة العامة للطرق والكباري

استشاري المالك

مكتب محرم باخوم

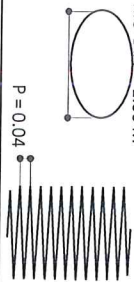
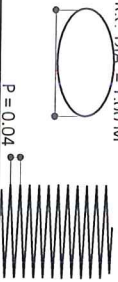
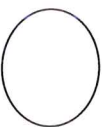
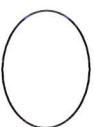
محرم باخوم

الشركة المنفذة

شركة السعداء

مشروع :- توسعة الدائري عند تقاطع محور (H13-Left) - عمود دائري

جدول حصر حديد تسليح اعمدة محور (H13-Left) - عمود دائري

Bar Mark	Bar Details			Bar Shape (Dimensions are in m)	ø Of Bars	Spacing	Total No of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes		
	Member	Direction	Particular Placing Of				NO. Of Bar	NO. Of Member	NO. Of Sets	Total Nos				STAGG	Description	
6	Column				T32	-	30	1	1	30	8.80	6.321	1668.74			
2				Stirrups	Main Spiral		T12	40	44.35	1	1	44.35	12.00	0.889	473.13	
3	Column				T22	-	30	1	1	30	2.40	2.987	215.06			
4				Stirrups	ADD. Spiral		T12	100	3.64	1	1	3.64	12.00	0.889	38.83	
5	Column				T16	-	2	1	1	2	2.70	1.580	8.53			
7				Stirrups	Ring For ADD.		T16	-	2	1	1	2	2.00	1.580	6.32	
REINFORCEMENT WEIGHT FOR Column @ H13 - LEFT (ton) =															2.411	
المجموع																

المالك

الهيئة العامة للطرق والكباري

استشاري المالك

مكتب محرم باخوم

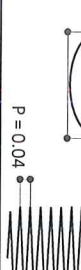
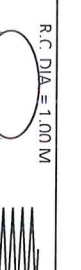
محرم باخوم

الشركة المنفذة

شركة السعداء

مشروع :- توسعة الدائري عند تقاطع محور الحضارات

جدول حصر حديد تسليح اعمدة محور (H14-Left) - عمود دائري

Bar Mark	Bar Details			Bar Shape (Dimensions are in m)	ø Of Bars	Spacing	Total No of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes	
	Member	Direction	Particular Placing Of				NO. Of Bar	NO. Of Member	NO. Of Sets	Total Nos				STAGG	Description
6	Column	Main Rft	Outer Main		T32	-	30	1	1	30	9.10	6.321	1725.63		
2		Stirrups	Main Spiral		T12	40	46.17	1	1	46.17	12.00	0.889	492.54		
3		Main Rft	Internal Main		T32	-	30	1	1	30	2.40	2.987	215.06		
4		Stirrups	ADD. Spiral		T12	100	3.64	1	1	3.64	12.00	0.889	38.83		
5		Stirrups	Ring For Main		T16	-	2	1	1	2	2.70	1.580	8.53		
7		Stirrups	Ring For ADD.		T16	-	2	1	1	2	2.00	1.580	6.32		
REINFORCEMENT WEIGHT FOR Column @ H14 - LEFT (ton) =													2.487		

المالك

الهيئة العامة للطرق والكباري

استشاري المالك

مكتب محرم ياخوم

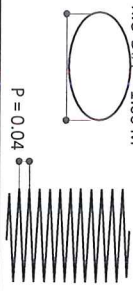
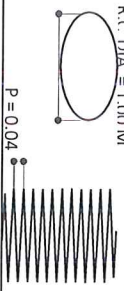
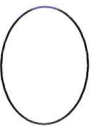
محرم ياخوم

الشركة المنفذة

شركة السعداء

مشروع :- توسعة الدائري عند تقاطع محور الحضارات

جدول حصر حديد تسليح اعمدة محور (H15-Left) - عمود دائري

Bar Mark	Bar Details			Bar Shape (Dimensions are in m)	ø Of Bars	Spacing	Total No of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes	
	Member	Direction	Particular Placing Of				NO. Of Bar	NO. Of Member	NO. Of Sets	Total Nos				STAGG	Description
6	Column	Main Rft	Outer Main		T32	-	30	1	1	30	9.40	6.321	1782.52		
2		Stirrups	Main Spiral		T12	40	48.06	1	1	48.06	12.00	0.889	512.70		
3		Main Rft	Internal Main		T32	-	30	1	1	30	2.40	2.987	215.06		
4		Stirrups	ADD. Spiral		T12	100	3.64	1	1	3.64	12.00	0.889	38.83		
5		Stirrups	Ring For Main		T16	-	2	1	1	2	2.70	1.580	8.53		
7		Stirrups	Ring For ADD.		T16	-	2	1	1	2	2.00	1.580	6.32		
REINFORCEMENT WEIGHT FOR Column @ H15 - LEFT (ton) =													2.564		

المالك

الهيئة العامة للطرق والكباري

استشاري المالك

مكتب محرم باخوم

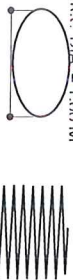
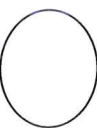
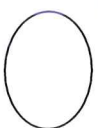
محرم باخوم

الشركة المنفذة

شركة السعداء

مشروع :- توسعة الدائري عند تقاطع محور الحضارات

جدول حصر حديد تسليح اعمدة محور (H15-Right) - عمود دائري

Bar Mark	Bar Details				Bar Shape (Dimensions are in m)	ø Of Bars	Spacing	Total No of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes	
	Member	Direction	Particular Placing Of	NO. Of Bar				NO. Of Member	NO. Of Sets	Total Nos	STACG				Description	
6	Column	Main Rft	Outer Main		T32	-	30	1	1	30	9.20	6.321	1744.60			
2		Stirrups	Main Spiral		T12	40	46.53	1	1	46.53	12.00	0.889	496.38			
3		Main Rft	Internal Main		T22	-	30	1	1	30	2.40	2.987	215.06			
4		Stirrups	ADD. Spiral		T12	100	3.64	1	1	3.64	12.00	0.889	38.83			
5		Stirrups	Ring For Main		T16	-	2	1	1	2	2.70	1.580	8.53			
7		Stirrups	Ring For ADD.		T16	-	2	1	1	2	2.00	1.580	6.32			
REINFORCEMENT WEIGHT FOR Column @ H15 - Right (ton) =														2.510		
عبدالرحمن محمد علي																
Date: 11-01-2025																

المالك

الهيئة العامة للطرق والكباري

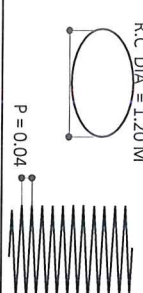
استشاري المالك

مكتب محرم باخوم

الشركة المنفذة

مشروع :- توسعة الدائري عند تقاطع محور الحضارات

جدول حصر حديد تسليح اعمدة محور (H16-Left) - عمود دائري

Bar Mark	Bar Details			Bar Shape (Dimensions are in m)	ø Of Bars	Spacing	Total No of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes		
	Member	Direction	Particular Placing Of				NO. Of Bar	NO. Of Member	NO. Of Sets	Total Nos				STAGG	Description	
4	Column	Main Rft	Outer Main		T32	-	30	1	1	30	9.40	6.321	1782.52			
2			Stirrups	Main Spiral		T12	40	57.95	1	1	57.95	12.00	0.889	618.21		
3		Inner Ring	Ring For Main		T16	-	2	1	1	2	3.40	1.580	10.74			
REINFORCEMENT WEIGHT FOR Column @ H16 - LEFT (ton) =														2.411		

المالك

REINFORCEMENT WEIGHT FOR Column @ H16 - LEFT (ton) =

استشاري المالك

مكتب محرم ياخوم

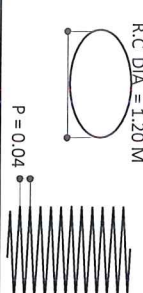
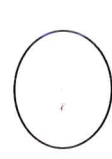


الشركة المنفذة



مشروع :- توسعة الدائري عند تقاطع محور الحضارات

جدول حصر تحديد تسليح اعمدة محور (H16-Right) - عمود دائري

Bar Mark	Bar Details			Bar Shape (Dimensions are in m)	ø Of Bars	Spacing	Total No of Bars				Cutting length (m)	Unit Weight (Kg/m ³)	Weight (Kg)	Notes		
	Member	Direction	Placing Of				NO. Of Bar	NO. Of Member	NO. Of Sets	Total Nos				STAGG	Description	
1	Column	Main Rft	Outer Main		T32	-	30	1	1	30	9.20	6.321	1744.60			
2		Stirrups	Main Spiral		T12	40	56.1	1	1	56.1	12.00	0.889	598.47			
3		Inner Ring	Ring For Main		T16	-	2	1	1	2	3.40	1.580	10.74			
REINFORCEMENT WEIGHT FOR Column @ H16 - RIGHT (ton) =														2.354		

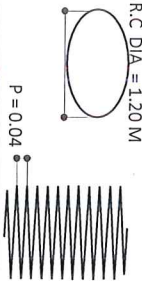
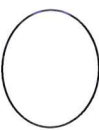
المالك
الهيئة العامة للطرق والكباري

استشاري المالك
مكتب محرم باخوم

الشركة المنفذة

مشروع :- توسعة الدائري عند تقاطع محور الحضارات

جدول حصر حديد تسليح اعمدة محور (H17-Left) - عمود دائري

Bar Mark	Bar Details			Bar Shape (Dimensions are in m)	ø Of Bars	Spacing	Total No of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes			
	Member	Direction	Particular Placing Of				NO. Of Bar	NO. Of Member	NO. Of Sets	Total Nos				STAGG	Description		
4	Column	Main Rft	Outer Main		T32	-	30	1	1	30	9.70	6.321	1839.41				
2		Stirrups	Main Spiral		T12	40	60.23	1	1	60.23	12.00	0.889	642.53				
3		Inner Ring	Ring For Main		T16	-	2	1	1	2	3.40	1.580	10.74				
REINFORCEMENT WEIGHT FOR Column @ H17 - LEFT (ton) =																2.493	

المالك

الهيئة العامة للطرق والكباري

استشاري المالك

مكتب محرم ياخيوم

مكتب محرم ياخيوم

الشركة المنفذة

شركة السعداء للمقاولات



الشركة المنفذة

شركة السعداء للمقاولات (ش.م.م.)



المهندسون الاستشاريون العرب
محرم - ياخوم

استشاري المالك

مكتب محرم ياخوم



الملك

الهيئة العامة للطرق والكباري

مشروع :- توسعة الدائري عند تقاطع محور الحضارات

جدول حصر تحديد تسليح اعمدة محور (H17-Right) - عمود دائري

Bar Mark	Bar Details			Bar Shape (Dimensions are in m)	ø Of Bars	Spacing	Total No. of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes		
	Member	Direction	Placing Of				NO. Of Bar	NO. Of Member	NO. Of Sets	Total Nos				STAGG	Description	
1	Column	Main Rft	Outer Main		T32	-	30	1	1	30	9.50	6.321	1801.49			
2		Stirrups	Main Spiral	 R.C DIA = 1.20 M P = 0.04	T12	40	58.38	1	1	58.38	12.00	0.889	622.80			
3		Inner Ring	Ring For Main		T16	-	2	1	1	2	3.40	1.580	10.74			
REINFORCEMENT WEIGHT FOR Column @ H17 - RIGHT (ton) =														2.435		

المالك

الهيئة العامة للطرق والكباري

استشاري المالك

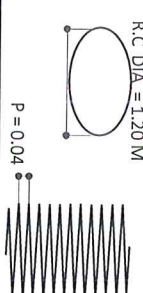
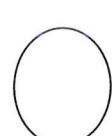
مكتب محرم ياخوم

الشركة المنفذة

شركة السعداء للمقاولات

مشروع :- توسعة الدائري عند تقاطع محور الحضارات

جدول حصر حديد تسليح اعمدة محور (H19-Left) - عمود دائري

Bar Mark	Bar Details			Bar Shape (Dimensions are in m)	ø Of Bars	Spacing	Total No. of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes	
	Member	Direction	Particular Placing Of				NO. Of Bar	NO. Of Member	NO. Of Sets	Total Nos				STAGG	Description
4	Column	Main Rft	Outer Main		T32	-	30	1	1	30	10.00	6.321	1896.30		
2		Stirrups	Main Spiral		T12	40	62.51	1	1	62.51	12.00	0.889	666.86		
3		Inner Ring	Ring For Main		T16	-	2	1	1	2	3.40	1.580	10.74		
REINFORCEMENT WEIGHT FOR Column @ H19 - LEFT (ton) = 2.574															

المالك

الهيئة العامة للطرق والكباري

استشاري المالك

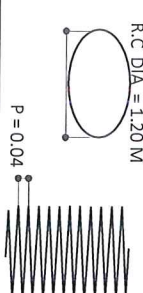
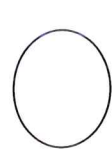
مكتب محرم ياخوم

الشركة المنفذة

شركة السعداء للمقاولات

مشروع :- توسعة الدائري عند تقاطع محور الحضارات

جدول حصر حديد تسليح اعمدة محور (H19-Right) - عمود دائري

Bar Mark	Bar Details			Bar Shape (Dimensions are in m)	ø Of Bars	Spacing	Total No of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes		
	Member	Direction	Particular Placing Of				NO. Of Bar	NO. Of Member	NO. Of Sets	Total Nos				STAGG	Description	
1	Column	Main Rft	Outer Main		T32	-	30	1	1	30	9.80	6.321	1858.37			
2			Stirrups	Main Spiral		T12	40	60.66	1	1	60.66	12.00	0.889	647.12		
3		Inner Ring	Ring For Main		T16	-	2	1	1	2	3.40	1.580	10.74			
REINFORCEMENT WEIGHT FOR Column @ H19 - RIGHT (ton) =														2.516		

المالك

الهيئة العامة للطرق والكباري

الاستشاري المالك

مكتب محرم باخوم

الشركة المنفذة

شركة السعداء



الشركة الهندسية

شركة السعاء للمقاولات (ش.م.م.)



المهندسون الاستشاريون العرب
محرم - باقرم

استشاري المالك

مكتب محرم باقرم



المالك

الهيئة العامة للطرق والكباري

مشروع :- توسعة الدائري عند تقاطع محور الحضارات

جدول حديد تسليح اعمدة محور (H20-Left) - عمود دائري

Bar Mark	Bar Details			Bar Shape (Dimensions are in m)	ø Of Bars	Spacing	Total No. of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes	
	Member	Direction	Placing Of				NO. Of Bar	NO. Of Member	NO. Of Sets	Total Nos				STAGG	Description
4	Column	Main Rft	Outer Main		T32	-	30	1	1	30	9.55	6.321	1810.97		
2			Stirrups	Main Spiral		T12	40	59.09	1	1	59.09	12.00	0.889	630.37	
3		Inner Ring	Ring For Main		T16	-	2	1	1	2	3.40	1.580	10.74		
REINFORCEMENT WEIGHT FOR Column @ H20 - LEFT (ton) = 2.452															

المالك

الهيئة العامة للطرق والكباري

استشاري المالك

مكتب محرم باقرم

الاستشاري

الشركة الهندسية

شركة السعاء للمقاولات (ش.م.م.)

الشركة المنقذة

شركة السعاء للمقاولات (ش.م.م.)

استشاري المالك

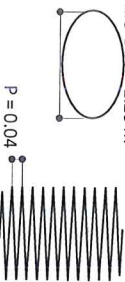
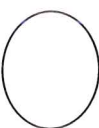
مكتب محرم باقرم

المالك

الهيئة العامة للطرق والكباري

مشروع :- توسعة الدائري عند تقاطع محور الحضارات

جدول حصر حديد تسليح اعمدة محور (H20-Right) - عمود دائري

Bar Mark	Bar Details			Bar Shape (Dimensions are in m)	ø Of Bars	Spacing	Total No of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes	
	Member	Direction	Particular Placing Of				NO. Of Bar	NO. Of Member	NO. Of Sets	Total Nos				STAGG	Descripton
1	Column	Main Rft	Outer Main		T32	-	30	1	1	30	10.00	6.321	1896.30		
2			Stirrups	Main Spiral		T12	40	62.22	1	1	62.22	12.00	0.889	663.76	
3		Inner Ring	Ring For Main		T16	-	2	1	1	2	3.40	1.580	10.74		
REINFORCEMENT WEIGHT FOR Column @ H20 - RIGHT (ton) = 2.571															

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الهيئة العامة للطرق والكباري

استشاري المالك

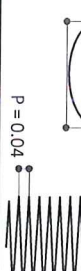
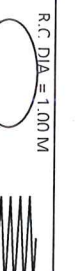
مكتب محرم باقرم

الشركة المنقذة

شركة السعاء

مشروع :- توسعة الدائري عند تقاطع محور الحضارات

جدول حصر حديد تسليح اعمدة محور (H21-Left) - عمود دائري

Bar Mark	Bar Details			Bar Shape (Dimensions are in m)	Ø Of Bars	Spacing	Total No of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes	
	Member	Direction	Particular Placing Of				NO. Of Bar	NO. Of Member	NO. Of Sets	Total Nos				STAGG	Description
6	Column	Main Rft	Outer Main		T32	-	30	1	1	30	10.50	6.321	1991.12		
2		Stirrups	Main Spiral		T12	40	54.9	1	1	54.9	12.00	0.889	585.67		
3		Main Rft	Internal Main		T32	-	30	1	1	30	2.40	2.987	215.06		
4		Stirrups	ADD. Spiral		T12	100	3.64	1	1	3.64	12.00	0.889	38.88		
5		Stirrups	Ring For Main		T16	-	2	1	1	2	2.70	1.580	8.53		
7		Stirrups	Ring For ADD.		T16	-	2	1	1	2	2.00	1.580	6.32		
REINFORCEMENT WEIGHT FOR Column @ H21 - LEFT (ton) =														2.846	

المالك
الهيئة العامة للطرق والكباري

استشاري المالك
مكتب محرم باخوم

الشركة المنقذة

مشروع :- توسعة الدائري عند تقاطع محور الحضارات

جدول حصر تسليح اعمدة محور (H22-Left) - عمود دائري

Bar Mark	Bar Details			Bar Shape (Dimensions are in m)	ø Of Bars	Spacing	Total No of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes	
	Member	Direction	Particular Placing Of				NO. Of Bar	NO. Of Member	NO. Of Sets	Total Nos				STAGG	Description
6	Column	Main Rft	Outer Main		T32	-	30	1	1	30	10.70	6.321	2029.04		
2		Stirrups	Main Spiral		T12	40	56.14	1	1	56.14	12.00	0.889	598.90		
3		Main Rft	Internal Main		T22	-	30	1	1	30	2.40	2.987	215.06		
4		Stirrups	ADD. Spiral		T12	100	3.64	1	1	3.64	12.00	0.889	38.83		
5		Stirrups	Ring For Main		T16	-	2	1	1	2	2.70	1.580	8.53		
7		Stirrups	Ring For ADD.		T16	-	2	1	1	2	2.00	1.580	6.32		
REINFORCEMENT WEIGHT FOR Column @ H22 - LEFT (ton) =													2.897		

المالك

الهيئة العامة للطرق والكباري

استشاري المالك

مكتب محرم باخوم



الشركة المنفذة

شركة السعداء

مشروع :- توسعة الدائري عند تقاطع محور الحضارات

جدول حصر حديد تسليح اعمدة محور (H23-Left) - عمود دائري

Bar Mark	Bar Details			Bar Shape (Dimensions are in m)	ø Of Bars	Spacing	Total № of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes		
	Member	Direction	Fabrication Placing Of				NO. Of Bar	NO. Of Member	NO. Of Sets	Total Nos				STAGG	Description	
6	Column					T32	-	30	1	1	30	10.90	6.321	2066.97		
2	Column					T12	40	57.44	1	1	57.44	12.00	0.889	612.77		
3	Column					T32	-	30	1	1	30	2.40	2.987	215.06		
4	Column					T12	100	3.64	1	1	3.64	12.00	0.889	38.83		
5	Column					T16	-	2	1	1	2	2.70	1.580	8.53		
7	Column					T16	-	2	1	1	2	2.00	1.580	6.32		
REINFORCEMENT WEIGHT FOR Column @ H23 - LEFT (ton) =																
														2.948		

المالك

الهيئة العامة للطرق والكباري

استشاري المالك

مكتب محرم باخريم

الشركة المنفذة

شركة السعراء



الشركة المنفذة
شركة السعداء للمقاولات (ش.م.ع.)



المهندسون الاستشاريون العرب
محرم - باخوم
استشاري المالك
مكتب محرم باخوم



المالكة
الهيئة العامة للطرق والكباري

مشروع :- توسعة الدائري عند تقاطع محور الحضارات

جدول حصر حديد تسليح اعمدة محور (H24-Left) - عمود دائري

Bar Mark	Bar Details			Bar Shape (Dimensions are in m)	ø Of Bars	Spacing	Total No of Bars				Cutting length (m)	Unit Weight (Kg/m)	Weight (Kg)	Notes	
	Member	Direction	Particular Placing Of				NO. Of Bar	NO. Of Member	NO. Of Sets	Total Nos				STAGG	Description
6	Main Rft				T32	-	30	1	1	30	11.10	6.321	2104.89		
2	Stirrups				T12	40	58.67	1	1	58.67	12.00	0.889	625.89		
3	Main Rft				T22	-	30	1	1	30	2.40	2.987	215.06		
4	Stirrups				T12	100	3.64	1	1	3.64	12.00	0.889	38.83		
5	Stirrups				T16	-	2	1	1	2	2.70	1.580	8.53		
7	Stirrups				T16	-	2	1	1	2	2.00	1.580	6.32		
REINFORCEMENT WEIGHT FOR Column @ H24 - LEFT (ton) = 3.000															
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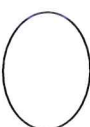
المالكة
الهيئة العامة للطرق والكباري

استشاري المالكة
مكتب محرم باخوم
محرم باخوم

الشركة المنفذة
شركة السعداء

مشروع :- توسعة الدائري عند تقاطع محور الحضارات

جدول حصر حديد تسليح اعمدة محور (H25-Left) - عمود دائري

Bar Mark	Bar Details			Bar Shape (Dimensions are in m)	ø Of Bars	Spacing	Total No. of Bars				Cutting length (m)	Unit Weight (Kg/m ³)	Weight (Kg)	Notes	
	Member	Direction	Particular Placing Of				NO. Of Bar	NO. Of Member	NO. Of Sets	Total Nos				STAGG	Description
6	Column	Main Rft	Outer Main		T32	-	30	1	1	30	11.30	6.321	2142.82		
2		Stirrups	Main Spiral		T12	40	59.73	1	1	59.73	12.00	0.889	637.20		
3		Main Rft	Internal Main		T32	-	30	1	1	30	2.40	2.987	215.06		
4		Stirrups	ADD. Spiral		T12	100	3.64	1	1	3.64	12.00	0.889	38.83		
5		Stirrups	Ring For Main		T16	-	2	1	1	2	2.70	1.580	8.53		
7		Stirrups	Ring For ADD.		T16	-	2	1	1	2	2.00	1.580	6.32		
REINFORCEMENT WEIGHT FOR Column @ H25 - LEFT (ton) =														3.049	
المجموع															
المجموع															

المالك
الهيئة العامة للطرق والكباري

استشاري المالك
مكتب محرم باخوم
حازم

الشركة المنفذة
شركة السعداء