

2745486268236248 الأنشطة المعمارية والهندسية والخدمات الاستشارية الفية المتصلة بها بدء التشاط: ۲۰۱/۰۰/۱۲ کود التشاط 7110 فردى مصلحة الضرانب المصرية جمهورية مصر العربية ۱ ۲۰۱ ۰۰ ش جسر السويس ۱۰ التزهه ۱۰ القاهره وزارة المالية بدء النشاط : ۲۱/۲ . /۳۲ . ۲ هوريزون للاستشارات الهندسيه مرقص قريد سمعان الرشيدي المهن الحرة ثاني/٠٠٠





8 June 2016

Mr Elrashidi Farid Samaan Morcos 201 Gisr El Suiz Street El Nozha Heliopolis Cairo EGYPT

Dear Mr Morcos,

Thank you for your Migration Skills Assessment Competency Demonstration Report application.

Engineers Australia is pleased to advise that the competencies you have demonstrated, taken in conjunction with your qualification from the following institution:

InstitutionCompleted/AwardedDateCairo UniversityCompletedJuly 1994

meets the current requirement for the following occupation:

Occupational Classification	ANZSCO Skill Level	Occupation	ANZSCO Code	Date
Professional Engineer	Skill Level 1	Structural Engineer	233214	July 1994

Overseas PhD Assessment

Your PhD from the below institution has been assessed as broadly comparable to the listed Australian Qualification Framework (AQF) Level for the purposes of awarding points under the General Skilled Migration points test:

Institution	Completed / Awarded	Date	AQF Level
Cairo University	Completed	October 2007	Doctoral Degree

Yours sincerely,

Dr Pawel Sajewicz Qualifications Assessor, Engineers Australia

All above advice is based on evidence as submitted, and the assessment does not constitute an opinion as to the veracity of claims made. Determination of points under the skilled migration points test remains at the discretion of delegated officers of the Department of Immigration and Border Protection.

All assessment letters issued electronically can be verified by using our Outcome Verification Service available on Engineers Australia's website.



شهادة مهندس استشاري

بع الإطلاع على قرار السيد المهندس/ وزير الري رقم ١٦٨٤ لسسنة ١٩٧٢ في إنشاء سجل المهندسين الإستشاريين و الترخيص فممي تأسيس المكاتب الهندسية الاستشارية وعلى إعتماد اللجنة العليا للهندسة الاستشارية بجلسة ٢٠١٣/٤/١٦ واعتماد المجلس الأعلى بتاريخ ٢٠/٤/٢٧ ٢٠ للأعمال الستي قسام بها المهندس صاحب هذه الشهادة وفقاً لما جاء بالمادتين ٢ ، ٣ من القرار الوزاري المشار إليه وما تصمنه من بنود، فقد أعطيت هذه الشهادة إلى :-المسعبد المعند مسرقص فريسد سمعان عضو النقابة رقيم: ١٩/٢٠٥٧ شعبة الهندسة المدنية باعتباره مهندساً استشارياً في مجال:-

" تصميم المنشآت الخرسانية"

القاهرة في :- ٢٠ / ٥ / ٣ / ٢٠ نقابة المهندسين المصرية لى عبد الرجيب الحمد 1/1747

Faculty of Engineering Cairo University GRADUATE STUDIES DEPARTMENT





This is to certify that engineer : Morcos Farid Samaan Elrashidi Born on: 3/6/1972 at: Cairo Nationality : Egyptia has been awarded on: 18/9/2007 (Faculty) - 10/10/2007 (University).

THE DEGREE OF

DOCTOR OF PHILOSIPHY

in

Structural Engineering

Research Topic: "Advanced Dual Reciprocity Boundary Elements Formulations Applied to Structural Dynamics"

This Certificate has been issued upon candidate's request

REGISTRAR

MANAGER

DEAN

Horse

tanio

Salwa Mohamed

Date:10/12/2015

Gamal Abo-Elnel



Faculty of Eng., - Cairo University-12316 Giza, Egypt Tel: (202) 35678213 - (202) 35678223- (202) 35678494

كلية الهندسة - جامعة القاهرة - الرقم البريدي ١٢٣١٦ الجيزة – مصر ت/ ١٢٦٢٨٢٥٣ (٢٠٢) - ٢٠٢٨٢٢٥٣ (٢٠٢) - ١٢٨٤٢٥٤ (٢٠٢)

Certificate of Participation

This document certifies that

Dr.Morcos Farid Samaan HORIZON

Has successfully completed the Structural Design and Technical Notes listed on the back of this Certificate for the GRAND MUSUME PROJECT. under the supervision of





ARCHITECT heneghan.peng.architects CIVIL | TRANSPORTATION | STRUCTURAL | FACADE ENGINEERING

OVE ARUP & PARTNERS BUILDING SERVICES | IT | SECURITY | FIRE ENGINEERING | ACOUSTICS BURO HAPPOLD

A. Her

ASSOCIATE ARCHITECT RAAFAT MILLER CONSULTING

ASSOCIATE STRUCTURAL | CIVIL ARAB CONSULTING ENGINEERS ASSOCIATE BUILDING SERVICES | IT | SECURITY | FIRE ENGINEERING SHAKER CONSULTANCY DESIGN TEAM MANAGER DAVIS LANGDON SCHUMANN SMITH

QUANTITY SURVEYORS

LANDSCAPE | URBAN DESIGN

ASSOCIATE LANDSCAPE | URBAN DESIGN SITES INTERNATIONAL

SPECIALIST LIGHTING BARTENBACH LICHT'LABOR

SPECIALIST SIGNAGE BRUCE MAU DESIGN

Date Issued



Dr. Morcos Farid Samaan



Design of Specialized Works



بيان أعمال استشارية

التاريخ: 2024/3/1

الموضوع : الحسابات و الرسومات الانشانية لمشاريع شركة السعداء جروب

تحية طيبة و بعد....

نود ان نبلغ من يهمه الأمر أن السيد الدكتور مهندس استشاري / مرقص فريد سمعان (مكتب هوريزون للاستشارات الهندسية) يقوم بعمل الحسابات الانشائية و الرسومات التنفيذية للمشاريع المذكورة اسفله وذلك لحساب شركة السعداء جروب:

واجهات الرخام الميكانيكي لمبنى السعداء HQ بالعاصمة الادارية.

وتفضلوا بقبول فانق الاحترام ...





بيان أعمال استشارية

التاريخ: 2024/3/1

الموضوع : الحسابات الانشانية لتصميم و تثبيت شاسيهات الرخام الميكانيكي - واجهات مطار العريش

تحية طيبة و بعد....

نود أن نبلغ من يعني الأمر أن السيد الدكتور مهندس استشاري / مرقص فريد سمعان (مكتب هوريزون للاستشارات الهندسية) قد قام بعمل الحسابات الانشائية لمبني الركاب والمسجد وصالة كبار الزوار للمشروع المذكور اعلاه وذلك لحساب شركة الغرابلي للأعمال الهندسية المتكاملة ش.م.م وقد أعطيت له هذه الشهادة بناءا علي طلبه دون أدني مسئولية علي شركة الغرابلي

وتفضلوا بقبول فانق الاحترام...

Dr. Morcos Farid Samaan HORIZON Design of Specialized Works



بيان أعمال استشارية

التاريخ: 2024/3/1 الموضوع: الحسابات الانشائية لتصميم و تثبيت نماذج الهاندريل الزجاجي

تحية طيبة و بعد....

نود أن نبلغ من يهمه الأمر أن السيد الدكتور مهندس استشاري / مرقص فريد سمعان (مكتب هوريزون للاستشارات الهندسية) قد قام بعمل الحسابات الانشائية للموضوع المذكور اعلاه وذلك لحساب شركة موبي للتنمية و التصنيع للمشاريع التالية:

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- Alex. for Construction Privado Madinty -2
 - Alex. for Construction B15 Madinty -3
 - Atrium Alnoor City -4
 - Alex. for Construction -New Alamein -5

وتفضلوا بقبول فانق الاحترام...









بيان أعمال استشارية

التاريخ: 2024/3/1

الموضوع : الحسابات الانشائية لمشاريع شركة الورال إيجيبت

تحية طيبة و بعد....

نود أن نبلغ من يهمه الأمر أن السيد الدكتور مهندس استشاري / مرقص فريد سمعان (مكتب هوريزون

للاستشارات الهندسية) قد قام بعمل الحسابات الانشائية للمشاريع المذكورة اسفله وذلك لحساب شركة ألورال :

1- المتحف المصري الكبير GEMIII : الواجهات الخارجية و الداخلية.

2- مشاريع العاصمة الادارية: حى الوزارات – بنك AIB- فندق دار الدفاع طيبة روز.

- .ARC Buisness Park Building -3
 - .Mall 41 -ASHGAR DARNA -4
- .TELECOM EGYPT REGIONAL HUB DATA CENTER (B6A) -5
 - .Cairo Gate 6th of October City -6
 - .Mindhaus-District 5 -7
 - Park Street East New Cairo -8
 - · Park Street West Elsheik Zayed -9

. O-west - 6th of October City-10

وتفضلوا بقبول فائق الاحترام ...



العضو المنتدب التنفيذي م/ إيهاب فلؤاد

Quali'metal System For Manufacturing. Trading and contacting Aluminum



signature:

Date:5/3/2024

Business consulting certificate

After greeting...

Quali'metal System Company certifies that Dr. Consultant Engineer Marcus Farid Semaan (Horizon Engineering Consulting Office) has carried out all the structural calculations for all the company's projects, especially the glass facades, The Project which are:

1-Adly Mansour transportation Hub 2-Monorail Stations Facades 3-Xray Room for Olympic Sports City Stadium 4-Px Mall Project 5-The Mess Building Skylights

This certificate has been issued at the according to Dr Marcos request, without any responsibility on the company.

Best Regards.



Head office: 71 Sakr Koreek: Sheraton: Heliopolis: Cairo: Egypt Tel: (+202122672442:224/9107: Mob.: (+20) 12 2330870 - Fax.: (+202) 22672412 Factory: 1:177 51: Block 20023: West extension: industrial area: El Obour offy Factory: 23 Ahmed Ben Hanbal 51: Gamal Abdel Haser 51: Gear El Suoz: Cairo: E-mail: quali: metal@link.net - www.qual-metal.com

 كواليميتا
لصناعة وتجار
الألومذ



التاريخ: 2024/3/5

شهادة أعمال استشارية

لمن يهمه الامر

تحية طيبة و بعد....

تشهد شركة كواليميتال سيستم أن السيد الدكتور مهندس استشاري / مرقص فريد سمعان (مكتب هوريزون للاستشارات الهندسية) بانها قد اسندت بجميع اعمال الحسابات الانشائية لجميع مشروعات الشركة و خاصتة الواجهات الزجاجية و هى:

- 1- واجهات محطة عدلي منصور التبادلية.
 - 2- واجهات محطات المونوريل.
- 3- غرف الاكس راى باستاد المدينة الرياضية الاوليمبية.
 - 4- ال بى اكس مول بالعاصمة الادارية.
 - 5- مبنى ميس الظباط بالكيان العسكرى

وقد حررت هذه الشهادة بناء على طلبة و ذالك دون ادنى مسئولية على الشركة

وتفضلوا بقبول فانق الاحترام...



التوقيع:

الإفارة: ١٧ صلى فريش - مساكن شيراكون - مصر الجديدة - قلام ة - قلولون : ٧ ٧ ٢ ١ ١ ١ ١ ١ ١ ١ ٢ ٢ ٢ ٠ ٧ ٢ ١ ٢ ٢ ٢ لمصلح : ٣ شارع ١٧٢ - بلـوك ٢ ٢ - ٦ ٣ شائلة القـربي - قلناطلة الصنـَــاعية - مدينة العبور لمصلح : ٢٣ شارع لمد بن هليل - مثارع من جسل عبد قلـاصر - جسر السويس - قفاهرةَ E-mail: quali_metal@link.net - www.quali-metal.com

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Project Name:	Al-Arish Airport.	Attachment #01
Submittal No:	GIC-ECG-MAR-STR-0025, REV.00	
Subject:	SIKA ANCHOR FIX-3001, Anchoring Material.	
Date:	23-Nov-2023.	

R

Gorano ENGINEERING CONSULTANTS GROUP S.A.

Comments:-

With refer to attached submittal, the contractor to be informed that the Material SIKA ANCHOR FIX-3001 is Accepted in principle to fix steel bars; noting the following:

- 1. Contractor shall submit structural document submittal for the CASE OF STUDY (CASE BY CASE) with clear sketches and supported by calculations issued by the manufacturer - using the Product Software.
- 2. Contractor shall submit a Clarification letter from the manufacturer to ensure that the case of study can be constructed with SIKA ANCHOR FIX-3001 with the project name (WADI AL-NATROUN STAION).
- 3. Manufacturer shall attach a clear table that show/prove the required embedment length, bar spacing & required edge distance.
- 4. Contractor shall follow all the manufacturer recommendations.
- 5. Penetration process shall be carried out by approved manufacturer's applicator.
- 6. Contractor shall conduct a PULL-OUT Test as per ASTM C900 before application, to verify the results.

26/11/2023



ECG Form No. A407E Rev. 12/2015

Building 2, Block 10, El Sefarat District, Nasr City, Cairo, Egypte 11765 Mailing Address: P.O. Box 1167 Cairo 11511 - Egypt Phone: (202) 2352 47 40 | Fax. (202) 2352 57 48 E-mail: ecg@ecgsa.com





Al Arish - Airport



TERMINAL BUILDING C6-Post Installment Calculations Sika AnchorFix®-3001

Designed By



HORIZON

Design of Specialized Works

Dr. Morcos Farid Samaan

201 Gisr Elsuiz St., Nozha, Cairo Tel. : +201005658857



المشروع عند معاد العريش الدولي فالفران بالارك الأرك الأرك الأرك المعادي العريض فالفران بالارك الأرك الأرك الأرك المعادي المعادي العريض فالفران الدولي الدولي المعادي الدولي المعادي الدولي المعادي المعا معادي معادي المعادي ال	
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15/01/2024 التاريخ REV 00 التاريخ GICECG-AR-TOD-4	رقم الطلب
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	التوزيع بعد الاعتماد :
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15/01/2024	التاريخ	REV 00	الإصدار	25.(1)C. C. C.	GIC-ECG-AR-TOD-4		رقم الطلب	
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ATTACHEMENT #1

GIC-ECG-AR-TOD-04-00

النوته الحسابيه الخاصه بالرخام :Subject

- 1. CALCULATION SHOULD BE INCLUDED ALL FIXATION ITEMS Z BRACKET AND ADJUSTABLE ARM.
- 2. Z BRACKET, ADJUSTABLE ARM AND PIN SHOULD BE STANLESS STELL TYPE A316.
- 3. CHECK WIND LOAD MISSING EXTERNAL WIND LOAD.
- 4. SUBMIT PLANS, ELEVATIONS AND SECTIONS WITH DIMENSIONS AND MORE DETAILS.
- 5. MENTION THE LOCATIONS OF CONNECTIONS.
- 6. CHECK PAGE 01 ON DESIGN DETAILS PANNELS NOT CLEAR NEED MORE DIM. AND DETAILS.
- 7. MENTION C CHANNELS ON SECTIONS AND IF IT SLOTED OR NOT.
- 8. ANALYSIS NOT MATCH WITH PAGE 01 ON DETAILS DESIGN.
- 9. MISSING CHECK OF PIN.

احدالتهد بالا متداري ECG ENGINEERING CONSULTANTS GROUP S.A. Tochnical Office Department H.Q. C: REVISE AND RESUBMIT WORK SHALL NOT PROCEED By Date.....

Building 2, Block 10, El Sefarat District, Nasr City, Cairo, Egypt, 11765 Mailing Address; P.O. Box 1167 Cairo 11511 - Egypt Phone: (202) 2352 47 40 | Fax. (202) 2352 57 48 Femall: Bog/Berrieb.com



EEG Form No. A407E Rev. 12/2015

ECG byta wb inte ENGINEERING CONSULTANTS GROUP S.A. Attachement #2

صالحة للشرب.

- ٢-٣-٢ الإضافات لماء الخلط: إضافة مانية أساسها بوليمر الأسترين بوتادين تضاف لماء الخلط لزيادة قوة التماسك والربط للمونة الأسمنتية وفقا لتعليمات المصنع المكتوبة.
- مونة ملئ اللحامات: مونة أسمنتية سابقة الخلط والتجهيز في المصنع وتورد إلى الموقع في شكائر المصنع المغلقة . أساسها من الأسمنت مع إضافات من بوليمر الأسترين بوتادين والأكاسيد الملونة، طبقا للمواصفات BS EN 13888.
 - يكون اللون وفقا لاختيار المهندس من الألوان المتاحة في خط إنتاج المصنع.
 - ٤-٢ شاسيهات حديد
- 1-٤-٢ تكون الشاسيهات مصنعه من قطاعات صلب مشكله على الساخن طبقا ASTM A 36/A 36M ويسمك طبقا لتوصيات المصنع للتوافق مع المتطلبات الأنشائيه التى تم ذكر ها في هذا القسم ولكن لا تقل عن ٢,٧ مم وتكون تلك القطاعات مجلفنه بعد التصنيع طبقا لـ ASTM A 123/A 123M.
 - ۲_٥ كانات وخوابير التثبيت

اكسسوارات

- عمن Type 316، ASTM A 666. الحياب الغير قابل للصدأ Type 316، ASTM A 666. ومن قطاعات تتحمل أوزان الحجر وأحمال الرياح وتسمح بالربط والتثبيت الآمن للتكسية ويسمح بظبط رأسية وأفقيه الحجر.
- وسائل التثبيت في الخرسانة والمباني: ذو قدره علي التحمل وبدون انهيار لحمل مساوي أربعة أضعاف الأحمال الموصي بها في الخرسانة، ستة أضعاف الحمل الموصي له في المباني، طبقاً لما هو محدد باختبار ASTM E 488، يتم الاختبار عن طريق وكالة اختبار متخصصة مستقلة.
 - الوسائل السابقة التثبيت في الخرسانة والمباني:
- الخوابير ذات الورد القابلة للفك والتركيب: تصنع من الإستانلس ستيل المتوافق
 مع ASTM F 738M and ASTM F 836M مع ASTM F 836M
 مع ENGINEERING CONSULTANTS GROUP S.A.
 - المسامير القلاوط: إستانلس ستيل نوع ٣١٦.
- C: REVISE AND RESUBMIT WORK SHALL NOT PROCEED

Tochnical Office Department H.Q.

قسم ۱۵۸۵۰ مسلحة ٦ سز ٩

- - ۲-۲-۲ السيلر (Sealer): طبقا لتوصيات مصنع الحجر وتوصيات مصنع السيلر. ويجب أن يكون عديم اللون واللمعان.
 - ٧-٢ التصنيع
 - يتم التقطيع بالمقاسات المطلوبة في المحاجر والورش بحيث تكون أبعادها بعد التركيب مطابقة لما جاء بالرسومات وطبقا للمواصفات الأتيه:

مقبر وع رقد

7-7





Al Arish - Airport Analysis and Design of Marble Fixation System



Building 9 masjid

Designed By



HORIZON

Design of Specialized Works

Dr. Morcos Farid Samaan

201 Gist Elsuiz SL, Nozha, Caina Jol, 1 4201005608857



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210 المشروع ECG astimber is inte GIECO تطوير مطار العريش الدولى ENGINEERING CONSULTANTS GROUP SA 053 (Submittal - DOC) 5 طلب اعتماد مستندات شركة الغرابلي للأعمال الهندسية المتكاملة ش.م.م بماعة المبتدسين الإسلشاريين من المقاول العام : EC. Graning GIECO ECG Received 20-12-2023 التاريخ REV 02 الإصدار GIC-ECG-AR-TOD-رقم الط المرققات النوتة الحسابية الخاصة بالرخام الموضوع ice Dot التموذج 7 رقم المبني سالة المستقبلين والمودعيين المتطقة اخرى 2-1-ليكاليكا کہریاء معمارى الشالى دوع الاعمال عدد اللمخ البيان/الوصف ۴ Al Arish - Airport Analysis and Design of Marble Fixation System-2 1 1 45cm Cavity Case هبد المقاول: المستندات المرققة تنسيقها ومراجعتها من حيث تطابقها مع العقد ولعتبر مقبولة للاستخدام في المضروح من قلِّل الشاول GIECO Send ---- / ---- <u>/ ----</u> ate: المقاول T nie: مهندس التنخيذ D cpt. Document Control بتاريخ: التوفيا بواسطة: استلام الإستشارى ملاحظات الإستشارى Calculation is approved for all members -the Acchor is appared & could be generalized the X95/35 -14) mechanical FOC 01 61 P VEVAT 11.00 \$ 250 Nac Cab الإستشارى المختص With الإعتماد ma chan يم مرة اخرى بعد العام المان smember 7 الطلب مرفوض محتمد مع ملاحظات - بمكن للمقاول أن يستمريناءا على الملاحظات 3 2 ÷ بتاريخ/..... اعتباد الإستشارى 10 بتاريخ/.... الإستلام بواسطة : استلام المقاول . التوزيع قدل الاعتماد: 150 الإستشارى : 34 4 15 0 : -11-1 CINU orter التوزيع بعد الاعتماد : HON WORK MAY 1.02 المالك كېرباء ئېچېف ميكانيكا تخطيط Q.5





Al Arish - Airport Analysis and Design of Marble Fixation System-2 45 cm Cavity Case



Building 7 MEETERS AND GREETERS BUILDING

Designed By



HORIZON

Design of Specialized Works

Dr. Morcos Farid Samaan

201 Gisr Elsuiz SL, Nozha, Gairo Tel. : (201005658857





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Al Arish - Airport Analysis and Design of Marble Fixation System



Building 7 MEETERS AND GREETERS BUILDING

Designed By



HORIZON

Design of Specialized Works

Dr. Morcos Farid Samaan

201 Gisr Elsuiz St., Nozha, Cairo Tel. : +201005658857

Date Reference No. Package No. & Title:	16-May-2023 MD-23-PRV-ATR-SCG-ARC-MAT-0140 - Rev 2.00 Glass Balustrade panel - model No 01		
Employer:	PMC: Supervision Consultant: SHAKER		Contractor:
Document Type Material samples Manufacturer certificates	Catalogues Tests	☑ Technical sheets □ RFI	☐ MOM ☑ Other
2. Transmittal Details	8		
ltem no.	Description of items submitted/ quantity	Ref.	Contract doc. & complianc
	model No 01		
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2	On-floor Aluminum supporting system With Alumi COLOR Code 7022	inum cover	ENED
3	Rubber	REU	2023
4	Anchor Bolt - Friulsider M10 * 14 Cm	25	MAY LULO
5	Hempadur Avantguard750 zinc-rich epoxy primer	Prov	ATRIUM
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S-PRC-SS-02 (F43) Rev 1

	nittal of documents		Date: Request no:	26/09/2022 141 Rev005
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	Employer:	Superv	ision Consultant:	Contractor, Nov
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Date: 201211-01-0-0 141 Rev001 Request no: MD-22-B15-ACC-SCG-TT- STR- 0000141REVD001 تتتع لغيريت Contractor: ACC Supervision Consultant: Employer CSULLO Talas Mentals Group Arab Company for Projects and Urban Development 1. Document type Technical sheets Tetti Catalogues Oliver **Haterial** samples Schedules Mark Reits rer certificates 2. Submittal details Contract doc. Ref. & compliances Description of items submitted/ quantity Ref. Item no. الصبابات الاشتلية لهتدريل الزجاج These are transmitted for: Other Review & comment. Approval Your Information م الملجد الراهيم :Signature Submitted by: Lat 3. Supervision Consultant's Representative comments: Saidlyn Approved Approved as noted ne Revise & resubmit 110 Rejected 24 Others Signature 1.1.4 01/20 Approval shall not relieve Contractor labilities <

Date:	5/16/2023			
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Employer:	PM Consultant:		Supervision Consultant:	Contractor:
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1. Material description	(one Item only on this form) :	1		CONTRACTOR CONTRACTOR
2- On-floor Aluminu 3- Aluminum cappin 4- Anchor Bolt - Frin	ulsider M10 * 14 Cm guard750 zinc-rich epoxy primer	nel composition m cover	of 10 mm + 1.52mm laminate	layer (2 layer 0.76 mm)
Area of application :	glass handrail for building facade -be	No 18 - 17 - 28 - 29 -	27	
RFI ref. : Specification Ref. :	Glass Balustrades – Section 08860		B.O.Q. ref. no.: Standards:	Division 8 - DOORS AND WINDO
Attach all relevant lechr	ical literature marked to identify relevant descri	AND DESCRIPTION OF THE ADDRESS OF	ortificates, samples as appropriate.	an an a succession of the second strength of the second strength of the second strength of the second strength
2. Manufacturer / suppl	er Glass St	Mobi aint-Gobain - Dr., G	ralaba	
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S-PRC-SS-02 (F43) Rev 1

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ANALYSIS AND DESIGN OF BLUSTRADE

PRIVADO COMPOUND MADINTY

Designed by: Dr. Morcos Farid



Submittal Cover	Sheet			
Date Reference No. Package No. & Title:	16-May-2023 MD-23-PRV-ATR-SC Glass Balustrade pa	G-ARC-MAT-0154 - Rev 1.00 nel - model No 02		
Employer:	PMC: S	upervision Consultant:		Contractor:
مديلتى	مديلتى	SHAKER		RIUM
1. Document Type				
☑ Material samples ☐ Manufacturer certificates	Catalogues	Tests Drawings	Technical sheets RFI	☐ MOM ☑ Other
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		model No 02		
		اع طبقًا لاعتماد النونة الحسابية لاعمال التعديلات المنف Final Approved Dr/ Aly Abed Elra بتاريخ		
1		de panel is based on using 2 glass panel im + 1.52mm laminate layer (2 layer 0.76 m	m)	
2	On-floor Aluminu	m supporting system With Aluminum cover COLOR Code 7022		NED
3		Aluminum capping COLOR Code 7022	RECE	N 2023
4		Rubber 2 mm	2.5 M	PRIVADO
5		der M10 * 12 Cm - Splet/M10 * 12 Cm - Mang * 12 Cm - Etaco M10 * 12 Cm	go project	ATRIUM
6	н	lempadur Avantguard750 zinc-rich epoxy primer		
		RECEIVED	8 11 6 1	
		Madiraty	The second	
hese are transmitted for:	Approval Review &	comment Caller I and an I a	Response for RFI	Other
ubmitted by: Eng. Moham	ed Mostafa Ahmed		Signature	3

S-PRC-58-02 (043) Roy 1

Date:	5/16/2023		
Request no:	MD-23-PRV-ATR-SCG-ARC-MAT-0154 - Rev 1.00		
Project no. & title:	Privado		
Imployer:	PM Consultant:	Supervision Consultant:	Contractor:
Callino	صديناندى	SHAKER	ATRIUM
I. Material description	(one item only on this form) :		
- On-floor Aluminu - Aluminum cappi - Rubber 2 mm - Anchor Bolt - Fri			(2 layer 0.76 mm)
Area of application :	glass handrall for building facade - Building No 1-2-3	-4-20-21-22-23-24-25-26-30-31-14-15-16	
	and a second	C 17 II. C 19 II. C 18 II. C 19 II. C 1	ision 9 DOODS AND WINDOWS
RFI ref. : Specification Ref. : Attach all relovant techr	Glass Balustrades – Section 08860 Iteal literature marked to identify rolevant description, current T	Standards:	ISION 8 - DOORS AND WINDOWS
Specification Ref. : Attach all relevant tochr Manufacturor / reppi	Ical literature marked to identify rolevant description, current T	Standards: est Certificates, samples as appropriate.	ision 8 - DOORS AND WINDOWS
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Specification Ref. : Attach all relovant tachr Manufacturor / Ruppi Address .ocal agent .ocal agent .Delivery : Availability (*) Locally N Delivery Program certify that the above sub terial sources indicated ab bmitted by Supervision Consulta	Ideal liferature marked to identify rolevant description, current T Mobi Glass - Saint-Gobain - C Coverseas Ex-worked total duration Estimated time of arrival on site Date material required on site Latest date for order milted floms have been reviewed in detail and are correct and in stra ove have been reviewed in detail and that they will supply the submit Eng. Mohamed Mostafa Ahmed mi's Comments: No objective to proceed for the for the cover of the cover o	Standards: est Cartificatos, samples as appropriate. Dr. Greichte	I s except as otherwise stated: also that the linely.
Specification Ref. : Attach all relovant tachr Manufacturor / suppl Address .ocal agent : Delivery : Availability (*) Locally N Delivery Program certify that the above sub terial sources indicated ab binitted by Supervision Consulta Carbred au	Interature marked to Identify rolevant description, current T Ior Mobil Glass - Salint-Gobain - C fanulactured Overseas Ex-worked total duration Estimated time of arrival on site Date material required on site Latest date for order milled items have been reviewed in detail and are correct and in stree over have been reviewed in detail and that they will supply the submit Eng. Mohamed Mostafa Ahmed Int's Comments: No objective to proceed Int's Comply with approved torowith the torowith the top of the fully objective to proceed of the fully objective to proceed of the fully objective to proceed to prove to prove the top of the fully objective to proceed of the fully objective to prove to prove to prove to prove to prove to prove to problecting to prove to prove to prove to prove to prove	Standards: est Certificatos, samples as appropriate. Dr. Greicho	1 S except as otherwise stated: also that the linely.

5-PRC-50-02 (F43) Hoy 1

and a second second second second







ANALYSIS AND DESIGN OF BLUSTRADE

PRIVADO COMPOUND MADINTY

Designed by: Dr. Morcos Farid


Fwd: Delta Beam Connections A,A',C. - REF : Z2-SHARMA - RFI-149-03 (DarRef: S20066-0603D; / DU23-13810)

Mohamed Ashour <m.Ashour@adv-con.net> Sat 12/23/2023 2:28 PM To:Morcos_Farid@hotmail.com <Morcos_Farid@hotmail.com> Cc:Qusai As Saleh <q.assaleh@adv-con.net>

Dear professor :Marcos:

Thanx, and congratulations, appreciating your efforts and responding to even to the most complicated dar's design team requirements.

As usual you are always a partner of success.

We need to discuss below dar's comments.

Yours. M. Ashour

Get Outlook for Android

From: Walid Gohary <Walid.Gohary@dar.com>
Sent: Saturday, December 23, 2023 3:15:08 PM
To: Mohamed Ashour <m.Ashour@adv-con.net>
Cc: Mohammed.Y.Ibrahim@parsons.com <Mohammed.Y.Ibrahim@parsons.com>; Abu Wajahat Siddiqui
<a.siddiqui@adv-con.net>
Subject: FW: Delta Beam Connections A,A',C. - REF : Z2-SHARMA - RFI-149-03 (DarRef: S20066-0603D; / DU23-13810)

Dear Mohamad,

The reply as highlighted below. Code: B approved as Noted.

The provided submittal is approved, for connections A, A', and C only, with the following notes. Connection B is waiting for the reply of the contractor on the proposed loading test.

The design of steel cleat angles 200x175x20 and 250x200x20 are still not provided by the contractor in this submittal either! <u>So, Dar did our own check and found that the proposed seat angles with the two provided 20mm</u> thick stiff are capable to withstand the proposed load of the bolt (28 kN) noting that:

1. The weld between the cleat angle and the 20mm stiff shall be double side fillet weld of min s= 5mm or CJP

2. Grade of stiff and cleats S275 or higher

The following notes are only for the site team to consider:

These comments were raised earlier and replied to by the contractor as marked in Blue but will entail follow-up by the site team.

1. For connections It is imperative not to cut any of the existing rebar during the drilling process. **Confirmed**.

- 2. The execution of the chemical anchors must be undertaken by a trained team approved/authorized by the manufacturer.
 - Confirmed.
- 3. Strict adherence to all manufacturer's written instructions is mandatory.

Confirmed.

4. Materials submittals, data sheets, and shop drawings should be submitted separately for site team approval.

Confirmed.

- 5. Ensure all materials meet the project's fire rating requirements for this specific application. Confirmed.
- 6. The review approval on the design does not absolve the contractor/designer of liability on the design and contractual obligations.

Confirmed.



dar.com

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From: Mohamed Ashour <<u>m.Ashour@adv-con.net</u>> Sent: Thursday, December 21, 2023 5:13 PM To: Walid Gohary <<u>Walid.Gohary@dar.com</u>> Cc: Mohammed.Y.Ibrahim@parsons.com; Abu Wajahat Siddigui <a.siddigui@adv-con.net> Subject: RE: Delta Beam Connections A,A',C. - REF : Z2-SHARMA - RFI-149-03

! External Email, Use Caution !

Gentlemen : Dear Eng.\ Walid :

According to DELTA Beam RFI-149-02 , and the design meeting held DEC19 , Which we committed to deliver the requirements within 48 hours , Kindly you will find the following within the below we transfer link :

- Delta beam connection with concrete columns structural models using IDEA STATICA software.
- New steel corbels sap models.
- Updated design drawings.
- Final structural calculation note.

https://we.tl/t-qWFXnqo6Qn

Kindest Regards. Mohamed Ashour **Technical Manager.**

ADVANCED CONSTRUCTION CO.



From: Walid Gohary <<u>Walid.Gohary@dar.com</u>>
Sent: Thursday, December 21, 2023 2:50 PM
To: Mohamed Ashour <<u>m.Ashour@adv-con.net</u>>
Subject: RE: Delta Beam Connections A,A',C. - REF : Z2-SHARMA - RFI-149-02

Dear Mohamed:

Any update about the submission?

Regards, Walid G. Resident engineer



Follow us: Linked In | Facebook

From: Walid Gohary
Sent: Thursday, December 21, 2023 9:09 AM
To: 'Mohamed Ashour' <<u>m.Ashour@adv-con.net</u>>
Subject: RE: Delta Beam Connections A,A',C. - REF : Z2-SHARMA - RFI-149-02

Dear Mohamad:

Submit what you have and we will send it to DT to review

Regards, Walid G. Resident engineer



From: Mohamed Ashour <<u>m.Ashour@adv-con.net</u>>
Sent: Wednesday, December 20, 2023 7:08 PM
To: Walid Gohary <<u>Walid.Gohary@dar.com</u>>
Subject: RE: Delta Beam Connections A,A',C. - REF : Z2-SHARMA - RFI-149-02

! External Email, Use Caution !

Dear Eng.\ Walid :

Did you receive a reply for my inquiry before I deliver the submittal tomorrow ?

Kindest Regards.

Mohamed Ashour Technical Manager. ADVANCED CONSTRUCTION CO.



From: Mohamed Ashour Sent: Tuesday, December 19, 2023 1:41 PM To: Ramy Nuoir <<u>Ramy.Nuoir@dar.com</u>>; Walid Gohary <<u>Walid.Gohary@dar.com</u>> Cc: Mirza Mahmood Baig <<u>B.Mirza@adv-con.net</u>>; Mahmoud Hassan <<u>Mahmoud.Hassan@dar.com</u>> Subject: RE: Delta Beam Connections A,A',C. - REF : Z2-SHARMA - RFI-149-02

Dear Eng.\ Ramy :

Noted.

Dear Eng.\ Walid :

Mail - Dr. morcos farid - Outlook

Can you please support regarding the below mail and my inquiry about base plates below.

Kindest Regards. Mohamed Ashour Technical Manager. ADVANCED CONSTRUCTION CO.

 P.O.Box
 : 54000, Riyadh 11593

 Tel
 : +966 11 4602949

 Mobile
 : +966 594361169

 Fax
 : +966 11 460324

 e-mail
 : m.Ashour@adv-con.net

 Image: Construction For Cont. Co
 Image: Construction For Cont. Co

From: Ramy Nuoir <<u>Ramy.Nuoir@dar.com</u>>
Sent: Tuesday, December 19, 2023 1:34 PM
To: Mohamed Ashour <<u>m.Ashour@adv-con.net</u>>; Walid Gohary <<u>Walid.Gohary@dar.com</u>>
Cc: Mirza Mahmood Baig <<u>B.Mirza@adv-con.net</u>>; Mahmoud Hassan <<u>Mahmoud.Hassan@dar.com</u>>
Subject: RE: Delta Beam Connections A,A',C. - REF : Z2-SHARMA - RFI-149-02

Dear All,

All communications should be through DAR PM team please.

Regards,

Ramy Nuoir

From: Mohamed Ashour <<u>m.Ashour@adv-con.net</u>>
Sent: Tuesday, 19 December 2023 2:33 PM
To: Ramy Nuoir <<u>Ramy.Nuoir@dar.com</u>>; Walid Gohary <<u>Walid.Gohary@dar.com</u>>
Cc: Mirza Mahmood Baig <<u>B.Mirza@adv-con.net</u>>; Mahmoud Hassan <<u>Mahmoud.Hassan@dar.com</u>>
Subject: RE: Delta Beam Connections A,A',C. - REF : Z2-SHARMA - RFI-149-02

! External Email, Use Caution !

Dear Eng. \ Ramy :

I hope my message finds you well,

Kindly I need to summarize today's meeting in the following :

- Adjusting all edge distances to be not lees than 80 mm to avoid clash with reinforcement.
- Connection B will be clouded as on hold till the result of loading test.

- SS data will be incorporated in both calculation note and design drawings.
- Steel plates design : Kindly advise regarding the following :
 - steel angle for delta beam to concrete corbel connection : will be provided within 2 days.
 - For added steel corbel design below : is it satisfactory ?., If no Kindly advise.



A-Connection angle.



Figure (6): Von Mises Stresses – (TDL + TLL Stresses = 0.82 t/cm^2) < ($0.58 \text{ fy} = 0.58 \text{ s}.6 = 2.08 \text{ t/cm}^2$)

C-Connection plate.

Appreciating your fast reply, would be very useful to achieve the closure of this submittal.

Kindest Regards.

Mohamed Ashour Technical Manager. ADVANCED CONSTRUCTION CO.

From: Mohamed Ashour
Sent: Monday, December 11, 2023 9:35 PM
To: Ramy Nuoir <<u>Ramy.Nuoir@dar.com</u>>; Walid Gohary <<u>Walid.Gohary@dar.com</u>>
Cc: Mirza Mahmood Baig <<u>B.Mirza@adv-con.net</u>>; Mahmoud Hassan <<u>Mahmoud.Hassan@dar.com</u>>
Subject: Delta Beam Connections A,A',C. - REF : Z2-SHARMA - RFI-149-02

Gentlemen :

Dear Respected Eng.\ Ramy :

Good Evening :

I would like to thank you for your time today during the meeting held today DEC11\2023, And thank you for the technical support which was very useful and for me individually and for the project all over safety and quality.

Kindly you will find within the attachments the following :

- Latest Comments compliance statement (word file).
- Updated drawings covering all received drawings comments, and meeting held today DEC11 (DWG files for SA01,SA03)
- Structural models for connections A.A'.C.
- Structural calculation note for both section cuts , and HILTI calculations for both steel corbels & delta beam connections.

Kindly check , and I wish to get the approvals ASAP , as we have a critical construction activities related project delivery in a very tight duration.

Kindest and best Regards. Mohamed Ashour Technical Manager. ADVANCED CONSTRUCTION CO.



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3/3/24, 1:34 PM

Mail - Dr. morcos farid - Outlook

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	DOCUMENT SUBMITTAL (DOS)							
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<u>TO:</u>		Consultant:		-		<u>Rev. #</u>	01	
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Corrections or comments made relative to submittals during this review do not relieve the contractor from compliance with the requirements of the drawings and specifications. The check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contractor documents. The contractor is responsible for confirming and correlating all quantities and dimensions selecting fabrication processes and techniques of construction; Coordinating his work with that of other trades, and performing his work in a safe and satisfactory manner.



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Project Manager : EHAF Consulting Engin	eers		r.: El-Soadaa-Group	
From : El Soadaa Group		Date	: 29-09-2020	
To : EHAF Consulting Engineers		Submitta		EHF/DOS/ARC/020/0100-02
Attn. : Eng. Mohamed Helmy				
Subject: Calculation Sheet for v	vestern elevation	fourtain walk	full 1183/30D/E	HF/DOS/ARC/020/0100-01
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BANK VIII II AL ATLANTICE IN A AN INVESTMENT SANK CONSULTING ENGINEERS	El Soadaa Group
15 AUG 2020 DOCUMENT SUBMITTAL (DOS)	RECEIVED
Project NamerArab Investment Bank Headquarter Package : Main Package Project No. : 1185 Phase : Construction Employer : Arab Investment Bank Supervision Consultant: EHA Project Manager : EHAF Consulting Engineers Contractor : El Soadaa Grou	1185-AIB Bank AF Consulting Engineers
From : El Soadaa Group Date : 12-08-2020 To : EHAF Consulting Engineers Submittal Ref.: 1185/SOD Attn. : Eng. Mohamed Helmus	/EHF/DOS/ARC/020/0100-01
Type of Submittal : Test plan Product/Tech.data Program /schedule	Prequalification Specs.BOQ
	ain Contractor ed Represintative
Action Code Legend: (A) Approved (B) Approved as Noted (C) Revise and Resubmine Production, supply and /or implementation shall proceed only when action code is A / or Regarding action code C, resubmittal shall be within the limit set in the contract. Review dose not relieve the contractor from responsibility of compliance with all required If rejected please see comments.	ز الحرين العراقية. it (D) Rejected B.
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		el Scallo a Group
and investment spectrum	SUBMITTAL (DOS)	RECEIVED
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Project Manager : EHAF Consulting Engineers	Phase : Construction Supervision Consultant: EHA Contractor : Et Sando	1 1 01 0
From : El Soadaa Group	Group	r consulting Engineers
Attn. : Eng. Mohamed Helmu	Date \$ 17/06/2020 Submittal Ref. 1 top (
Subject: Calculation Sheet for western elevation of c	Previous Ref.: N/A	EHF/DOS/ARC/020/0100-00
severing nevering of c	curtain wall fixation - (ALUR	AL).
Type of "ubmittal. Peport Poducty rechuarge Submittal Discipline: Mechanical	Tast olan Program , schedule Civil Structuraj	equal fication pace.BOQ Other
Submittee m: Action Code Legend	Main ^e uthrized	Concractor
Notes : Production, supply and /or implementation shall proceed on Regarding action code C, resubmittal shall be within the limit Review dose not relieve the contractor from responsibility of If rejected please see comments. Consultant Comments:	(C) Revise and Resubmit	D) Rejected
Actions Required From Contractor :		5
Attachements:		-
Employer's Representative Comments (if required) :	Supervision Consultant Authrized representative	
	Employer Repre Authrized repre	sentative
in an		

RECEIVED	UBMITTAL (DOS) Package : Main Fackage Phase : Construction Supervision Consultant: EHAF Consulting Engineers Contractor : El Soadaa Group
From SI Social Group	Date : 30-01-2022
From El Soadaa Group To : EHAF Consulting Engineers	Submittal Ref.: 1185/SOD/EHF/DOS/ARC/020/0288-00
Attn. : Eng. Mohamed Helmy	Previous Ref.: N/A
	12
SUBJECT: Calculation Sheet for structural design of Curtain W	van (699 02)
Type of Submittal : Report Product/Tech.data Product/Tech.data Submittal Discipline: Machanical	
Attachements: 142 (A4) 00 (A3) Hard Copy Soft Copy (CD)	El constructi Main Constructor Constructi Main Constactor Authrized Representative
Submitted for: Action Code Legend: (A) Approved Notes : Production, supply and /or implementation shall proceed on: Regarding action code C, resubmittal shall be within the limit	ly when action code is A / or B. t set in the contract.
 Review dose not relieve the contractor from responsibility of If rejected please see comments. 	f compliance with all requirments of contract documents.
Consultant Comments:	otty on subcontractor
Actions Required From Contractor :	19
Attachements:	Supervision Consultant Authrized representative
Employer's Representative Comments (if required) :	
1 204124 A 202026 2020 A 2020	Employer Representative Authrized representative

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d.



Project Name : Arab investment bank		Submittal Ref. N	ło. ≋ 00	-
Project No.	· ·	Submitted By	: Eng, Emad Ahmed	N24
From	Eng. Ihab fouad	Signature	: 201 1.2022	
To	: Eng.sayed kamal	Date	: 29-01-2022	
Company	El-Soaadaa	Received By	•	
Address	ż	Signature	3	
Tel.	8	Date		
Fax	:			

Type of Submittal

Issued For

Drawing
 Sample

Testing Technical Data

Action

Others

Method Statement Others Specify

Warranty

10

Contract of

Approval As requested

ALU

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As Built Record

Information Construction

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Sr#	Description	Mode of Submittal	Qty	Remarks
1-	Structure Calculation for Types CW 2	By Hand	2	HARD COPY

NOTE:











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	DOCUMENT S	UBMITTAL (DOS)	RECEIVED
Project Name: Arab Investmen	* Pank Headauantee	_	2 5 DEC 2021
Project No. : 1185	t bank heauquarter	Package : Main Packa	A P.A. State State State
Employer : Arab Investment	t Bank	Phase : Construction	CONSULTING INCIDENT
Project Manager : EHAF Consul		Contractor : El Soadaa G	EHAF Consulting PhylinAd Bank
From : El Soadaa Group			
		Date : 25-12-202	_
e e e e e e e e e e e e e e e e e e e	-		OD/EHF/DOS/ARC/020/0287-00
Attn. : Eng. Mohamed Hel	•	Previous Ref.: N/A	
Subject: Calculation She	et for Curtain Wall (CW 04)		
Type of Submittal	Report	Test plan	Prequalification
Type of Submittal	Product/Tech.data	Program /schedule	Specs BOQ
Coloridated processor 20	Architectural	Civil	
Submittal Discipline;	Mechanical		Other
Attachements: 142 (A4) 00 (A3			dan-Graup
	9 Soft Copy (CD)	on tro	Clon - Stinder y
	son copy (cd)	A	Main Contractor uthrized Representative
Submitted for: Action Code Legend:			المرزين المجني ال
(A) Approved Notes :	(B) Approved as Noted	(C) Revise and Res	ubmit (D) Rejected
 Regarding action code C 	/or implementation shall proceed only c, resubmittal shall be within the limit s the contractor from responsibility of c imments.	et in the contract.	of contract documents.
Consultant Comments:	main	Lespon Stan	en .
Actions Required From Contract	or: OM	Swblondin	
e.		A	
Attachements:			
Hard Copy	Soft Copy (CD)	Supervision Co Authrized repr	
mployer's Representative Commen	its in Grune alument El Soodan Gr iConstruction and Bu	Sum -	
	30 JAN 2022		
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	DOCUMENT SUBMITTAL (D	DOS)
Project Name: Arab investment Bank Headquarter	Package	11 OF ALL
Project No. : 1185	Phase	Construction
Employer : Arab Investment Bank		ion Consultant: EHAF Consulting Engineers
Project Manager : EHAF Consulting Engineers	Contracto	or : El Soadaa Group
From : El Soadaa Group	Date	: 14-12-2021
To : EHAF Consulting Engineers	Submitta	al Ref.: 1185/SOD/EHF/DOS/ARC/020/0275
Attn. : Eng. Mohamed Helmy		s Ref.: N/A
SUBJECT: Calculation Sheet for Curtain Wal	ll (CW 01) Part 1 & Part 2	1992
Type of Submittal :	Test plan	Pregualification
Product/Teci	h data Program /so	
Submittal Discipline: Architectural		and the second
Submittal Discipline: Architectural Mechanical	Civil Structural	Cation in and Other
Attachements: 203 (A4) 00 (A3)	Stoctura	El troadad Group Controcting and By (1973)
Hard Copy		
		Main Contractor Authrized Representative
Submitted for: Action Code Legend: (A) Approved Notes : Production, supply and /or implementation sh Regarding action code C, resubmittal shall be a Review dose not relieve the contractor from re- If rejected please see comments.	nall proceed only when action cod within the limit set in the contract	Revise and Resubmit (D) Rejected
Consultant Comments:	Responsible	b) cm sub contrac
Actions Required From Contractor :		
Attachements:		
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mployer's Representative Comments (if realized El	Anstruction and Building)	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
201	AN. 2022	Employer Representative

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BANK	CONSULTING ENGINEERS
01 SEP. 2021 DOCUMENT	T SUBMITTAL (DOS)
Project Name: Arab Investment Bank Headquarter Project No. : 1185 Employer : Arab Investment Bank Project Manager : EHAF Consulting Engineers	Package : Main Package Phase : Construction Supervision Consultant: EHAF Consultant Engineers Contractor : El Soadaa Group
From : El Soadaa Group To : EHAF Consulting Engineers Attn. : Eng. Mohamed Helmy Subject: Calculation Sheet for Cw03&Cw04 Aluminum	Date : 19-08-2021 Submittal Ref.: <u>1185/SOD/EHF/DOS/ARC/021/0240-01</u> Previous Ref.: <u>1185/SOD/EHF/DOS/ARC/021/0240-00</u>
Type of Submittal : Report Product/Tech.data	Test plan Prequalification Program /schedule Specs.BOQ Civil
Attachements: 46 (A4)	Crvil Other
Submitted for: Action Code Legend: (A) Approved (B) Approved as Noted Notes : Production, supply and /or implementation shall proceed of Regarding action code C, resubmittal shall be within the lim Review dose not relieve the contractor from responsibility of If rejected please see comments.	nly when action code is A / or B.
Consultant Comments: ACCCP ked with Submet VCC	th contractor responsability om jadabien if there is nhelp
Hard Copy Soft Copy (CD)	Supervision Consultant
mployer's Representative Comments (if required) :	Authrized represntative
	Employer Representative

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Rece			2 8 JUL 2621
Project Name: Arab Investment Project No. : 1185 Employer : Arab Investment E Project Manager : EHAF Consulti	Bank Headquarter Bank	Package : Main Pack Phase : Construction	EHAF Consulting Engineers
From : El Soadaa Group To : EHAF Consulting Eng Attn. : Eng. Mohamed Helm	У	Previous Ref.: N/A	21 /SOD/EHF/DOS/ARC/021/0240-00
Subject: Calculation Sheet F	or Cw03&Cw04 Alluminu	iin Canopy (ALURAL)	
Type of Submittal : Submittal Discipline :	Product/Tech data	Tost plan Program /schedule Civil	Prequalification Specs.BOQ
Attachements: 46 (A4)	Mechanical	Structural	Main Contractor
Submitted for: Action Code Legend: (A) Approved Notes :	(B) Approved as Noted		uthrized Represntative
 negationing action code C, re 	implementation shall proceed or submittal shall be within the limi contractor from responsibility o pents.	ily when action code is A / or B. t set in the contract. f compliance with all requirments.	of contract documents.
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	required)	Authr 29d repre	VIT daye
iployer's Representative Comments (if			

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AIB BANK – NEW ADMINSTRATION CAPITAL STRUCTURAL ANALYSIS OF CW03-04 ALUMINUM CANOPY

DESIGN OF ALUMINUM AND STEEL ELEMENTS PREPARED BY: Dr. Morcos Farid



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	6 MAY. 2021	CONSULTING ENGINEERS	- 3 MAY 2021
	DOCUME	NT SUBMITTAL (DOS)	CRO EHAP
Project Name: Arab Investn Project No. : 1185 Employer : Arab Investm Project Manager : EHAF Cor	ent Bank	Package : Main Pac Phase : Construct Supervision Consultan Contractor : El Soadaa	kage tion ht: EHAF Consulting Engineers
From : El Soadaa Grou To : EHAF Consulting Attn. : Eng. Mohamed SUBJECT: Calculation	; Engineers	Previous Ref.: N/A	021 5/SOD/EHF/DOS/ARC/021/0238-00
ype of Submittal :	Report Product/Tech data	Test plan Program /schedule	Prequalification Specs.BOQ
ubmittal Discipline:	Architectural	Civil Structural	Other
Attachements: 100 (A4) Hard Copy	Soft Copy (CD)		Main Contractor Authrized Representative
 Regarding action coor Review dose not reli If rejected please see 	nd /or implementation shall proceed le C, resubmittal shall be within the li eve the contractor from responsibility e comments.	only when action code is A / or B. mit set in the contract. y of compliance with all requirmer	nts of contract documents.
ctions Required From Cont	actor:	sill for coordination 32 Kellow spec. 1- Fatter	- enth Auch
ttachements:] Soft Copy (CD)	Supervision Authrized re	Consultant presitative
nployer's Representative Com			

Call Mark	BANK	CONSULTING ENGINEERS	El Soadaa Group
0.4 MAY. 2021	DOCUMENT	SUBMITTAL (DOS)	RECEIVED
Project Name: Arab Investment Bank Project No. : 1185 Employer : Arab Investment Bank Project Manager : EHAF Consulting Er		Package : Main Package Phase : Construction Supervision Consultant: ENAI Contractor : El Soadaa Group	
From : El Soadaa Group To : EHAF Consulting Enginee Attn. : Eng. Mohamed Helmy SUBJECT: Calculation Sheet for		Previous Ref.: N/A	/EHF/DOS/ARC/021/0237-00
Type of Submittal :	Report Product/Tech.data	Test plan Program /schedule	Prequalification Specs.80Q
Submittal Discipline:	Architectural Mechanical	Civil Structural	Other
Attachements: 100 (A4) Hard Copy	py (CD)	(#1	B Grands lain Contractor red Representative
 Review dose not relieve the co 	bmittal shall be within the limit ontractor from responsibility of	(C) Revise and Resubm	nit (D) Rejected
 If rejected please see commer 		and the second	and the second s
	Jon Sarph ill Tractor to Follow	le take during Wor specs & Ecp require A-fate	h fer tests.
Consultant Comments: * Raw Cont Actions Required From Contractor : Attachements:			tant
Actions Required From Contractor :	сору (СD)	A-hata Supervision Consul	tant

EHAF-DMCS 01/09 Rev 0

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	BANK	CONSULTING ENGINEE	RS El Soadaa Group
0.6 MAR. 2021	DOCUMEN	IT SUBMITTAL (DOS)	RECEIVED 2 4 FEB 2021
Project Name: Arab Investment Bank Head Project No. : 1185 Employer : Arab Investment Bank Project Manager : EHAF Consulting Engined From : El Soadaa Group		Phase : Const Supervision Consu Contractor : El Soa	Package Consulting Engineers
To : EHAF Consulting Engineers Attn. : Eng. Mohamed Helmy SUBJECT: Calculation Sheet for M	ain elevation of c	Previous Ref.: N/	185/SOD/EHF/DOS/ARC/021/0228-00 /a 220) - (ALURAL
Type of Submittal :	eport oduct/Tech data	Test plan Program /schedule	Prequalification
Attachements: 100 (A4) 00, (A3)	chanical	Civil Structural	Cadaa Group
Hard Copy Soft Copy (CD) Submitted for:			Main Contractor Authrized Representative
 Production, supply and /or implement Regarding action code C, resubmittal Review dose not relieve the contractor If rejected please see comments. 	shall be within the lim or from responsibility o	A ECP require cessors for tists (co	B.,
Attachements:		A - Falle Supervisio	on Consultant representative
mployer's Representative Comments (if required)	/		- Shi Shi Gilve
		Fi	mployer Representative

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0 7 FEB. 2621 DOCUMENT SUB	CEHAF SULTING ENGINEERS RECEIVED -1 FEB 2021
Project Name: Arab Investment Bank Headquarter Project No. : 1185 Employer : Arab Investment Bank	Package : Main Package EHAF Phase : Construction 1185-AIB Bank Supervision Consultant: EHAF Consulting Engineers Contractor : El Soadaa Group
Project Manager : EHAF Consulting Engineers From : El Soadaa Group To : EHAF Consulting Engineers Attn. : Eng. Mohamed Helmy SUBJECT: Calculation Sheet for Eastern elevation of curtain	Date : 31-01-2021 Submittal Ref.: <u>1185/SOD/EHF/DOS/ARC/021/0224-00</u> Previous Ref.: N/A
Type of Submittal :	Test plan Prequalification Program /schedule Specs.BOQ
Submittal Discipline: Architectural Mechanical Attachements: 347 (A4) 00, (A3) Hard Copy Soft Copy (CD)	Civil Other Structural Main Contractor Authrized Representative
Submitted for: Action Code Legend: (A) Approved (B) Approved as Noted Notes : Production, supply and /or implementation shall proceed only wh Regarding action code C, resubmittal shall be within the limit set Review dose not relieve the contractor from responsibility of com If rejected please see comments.	(C) Revise and Resubmit (D) Rejected nen action code is A / or B. in the contract. apliance with all requirments of contract documents.
Consultant Comments: <u>A Follow specs</u> Follow Ar	the Approved Shop drugs,
Actions Required From Contractor : Attachements: Hard Copy Soft Copy (CD)	A. hatte
Employer's Representative Comments (if required) :	Employer Representative Authrized representative

BANK	e EHAF
L 4 JAN. 2021	RECEIVED
Project Name: Arab Investment Bank Headquarter Project No. : 1185	Package : Main Package 27 DEC 2020 Package : Construction 1185-AIB Bank
Employer : Arab Investment Bank Project Manager : EHAF Consulting Engineers	Supervision Consultant: EHAF Consulting Engineers Contractor : El Soadaa Group
From : El Soadaa Group To : EHAF Consulting Engineers Attn. : Eng. Mohamed Helmy SUBJECT: Calculation Sheet for TYPES CW 19 & CW 20	Date : 27-12-2020 Submittal Ref.: <u>1185/SOD/EHF/DOS/ARC/020/0220-01</u> Previous Ref.: <u>1185/SOD/EHF/DOS/ARC/020/0220-00</u>
Type of Submittal :	Test plan Prequalification Program /schedule Specs.BOQ
Submittal Discipline: Architectural Mechanical	Civil Other
Attachements: 170 (A4) 00 (A3) Pard Copy Soft Copy (CD)	Main Contractor
Submitted for: Action Code Legend: (A) Approved Notes : Production, supply and /or implementation shall proceed only whe Regarding action code C, resubmittal shall be within the limit set in Review dose not relieve the contractor from responsibility of comp If rejected please see comments.	the contract
Consultant Comments: * Contractor to Apply all Ca lalatic and to be Submit for Arch Appr Actions Required From Contractor: for approval . proget Attachements:	Naturadvequirements on shop drugs awal. Material Submittal tote provide specs to be followed A. Fallo
Hard Copy Soft Copy (CD)	Supervision Consultant Authrized representative
Employer's Representative Comments (if required) :	
5	Employer Representative Authrized representative

BANK	RECEIVED
0 4 NOV. 2020 DOCUMENT	SUBMITTAL (DOS) - 3 NOV 2020
Project Name: Arab Investment-Bank-Readquarter	Carrier Contraction
Project No. : 1185	Package Main Package 195 ATB Bank
Employer : Arab Investment Bank	120
Project Manager : EHAF Consulting Engineers	Supervision Consultant: EHAF Consulting Engineers
From : El Soadaa Group	Contractor : El Soadaa Group
	Date : 03-11-2020
- Char Consulting Engineers	Submittal Ref.: <u>1185/SOD/EHF/DOS/ARC/020/0220-00</u>
Attn. : Eng. Mohamed Helmy SUBJECT: Calculation Sheet for TYPES CW 19 & CW 20	Previous Ref.: N/A
Type of Submittal : Report Product/Tech data	Prequalification
The second se	Program / tchedule Soecs. BOQ
Submittal Olscipline: I Architectural	Other
Attachemenan 120 mm	structural
Attachements: 170 (A4) 10 (A3)	
and Copy Suit Copy (10)	Main Contractor &
iubmitted for: Action Cade Legend:	Authrized Representation
 (A) Approved (A) Approved as Noted Production, supply and /or implementation shall proceed only Regarding action code C, resubmittal challes and interesting action code C. 	(C) Revise and Resubmit (D) Rejected
freideted alcase lied comments	problem with all requirments of contract documents.
onsultant Comments: A CCEpted with condul- A malerical Subartal E ctions Required From Contractor:	is submitting shop drawing
tachements:	m
Hard Copyoft Copy .CD)	
	Supervision Consultant
ployer's Representative Comments (if required)	Authrized representative
	Employer Representative Authrized representative

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Park St. East Project					DS No: PSE-KL-ALC-DS-GEN-0006 REVISION: 00	
<u>OWNER</u> BEYOND SKY	LEAD CONSULTAN ALCHEMY	T MEP COSNSULTANT EMDEG	STR. DESIGNER ADEC	STR. COSNSULT ESE	<u>ANT</u>	MAIN CONTRACTOR KFOURYLEEDS
	DOCUMENT SUBMITTAL					
Subject: Calcul	lation & Design R	eport of Steel Structur	e Chassis Used fo	r ACP Claddin	g	
Type of Docum	ient:					
MS: Metho	od Statement			OD: Other Do	ocume	ents
CN: Calcul	lation Notes			QS: Quantity	Surve	У
SK: Sketch	1			SC: Subcontra	actor	
OM: Opera	ation & Maintenand	ce Manuals				
-	tached calculation	n & design report of al.	steel Structure cl	hassis used to	suppo	ort ACP Cladding in
Contractor's F	Representative:	Eng. Nabil Mansour		Dat	te:	22/01/2024
Consultant's (Comments:					
drawings s	shall be subm	oved , the SD stru itted separately (etails , baseplate (Plans,	Ingineering	A	PPROVED PPROVED AS NOTED EVISE AND RESUBMIT OT APPROVED
Consultant's l	Representative:			Date:	:	

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Project Management's Comments:		
	APPRO	VED
	APPRO	VED AS NOTED
	REVISI	E AND RESUBMIT
	NOT A	PPROVED
Project Management's Representative:	Date:	



PARK ST. MALL



Analysis and design of Steel Chassis for Gray Cladding Rev.1

Designed by: Dr.Morcos Farid

Park St. East Project			DS No: PSE-KL-ALC-DS-GEN-0005 REVISION: 00		
OWNER BEYOND SKYLEAD CONSULTANT ALCHEMYMEP COSNS EMDE		STR. COSNSULT ESE	ANT MAIN CONTRACTOR KFOURYLEEDS		
DOCUMENT SUBMITTAL					
Subject: Calculation, Analysis and Design Report of Steel Structure Beam Supporting Curtain Wall.					
Type of Document:					
MS: Method Statement	OD: Other Documents				
CN: Calculation Notes		QS: Quantity	Quantity Survey		
SK: Sketch		SC: Subcontra	bcontractor		
OM: Operation & Maintenance Manuals					
Description of Document:					
Dear sir, Kindly find attached analysis and design report works, for review and approval.	t of 'Steel Structure Beam	Supporting Cu	ırtain wall' for façade		
Contractor's Representative:		Da	te: 08/01/2024		
Consultant's Comments:					
The Calculation is approved , the contention drawings detail not covered in this submittal , so according to the calculation the contractor shall submit the full drawings & details		+	APPROVED		
			APPROVED AS NOTED		
			REVISE AND RESUBMIT		
FSF		ie	NOT APPROVED		
Economical & Safe Engineering			·		
Consultant's Representative:		Date	:		

Project Management's Comments:				
		APPROVED		
		APPROVED AS NOTED		
		REVISE AND RESUBMIT		
		NOT APPROVED		
Project Management's Representative:	Date:			

MORCOS FARID SAMAAN ELRASHIDI, Ph.D.

<u>1- PERSONAL DETAILS:</u>

 Home Address: 15 Seleem Abdou St. – Abdou Basha, Abbasis – Cairo, Egypt.
 Home Tel. No.: +202-26845872, Mobile Tel. No.: +201005658857
 E-mails: Morcos_farid@hotmail.com, Morcos_farid@yahoo.com.sg Morcos.samaan@hti.edu.eg, Morcos.samaan@bue.edu.eg
 LinkedIn: https://www.linkedin.com/in/morcos-samaan-2aaaa04a/



2- KEY QUALIFICATIONS:

More than twenty five years of academic and practical experience in the fields of structural analysis engineering. As academic; teaching various courses including structural analysis and mechanics, design of concrete and steel structures, implementation of software programs into structural modeling...etc. In research areas, experiences are gained first by investigating many applications including reliability analysis of reinforced concrete slabs, later by using boundary elements method as an alternate to the finite element method in the analysis of different problems like slabs, rafts ...etc. On the other hand, as practical; consulting and leading teams in modeling, analysis, design and preparation/revision of tender, design and construction documents including projects supervision for both special structures as façade, curtain walls, aluminum elements, marble mechanical fixation, and also for traditional reinforced concrete and steel structures using international codes of (BS, ACI, IBC, UBC, PCI,...etc) as well as local codes (ECCS, ECP). Experienced in different types of structures including special applications such as curved and inclined curtain walls, aluminum louvers, suspended marble systems, high rise buildings, wide spans pre-stressed girders, and precast buildings

3- EDUCATION AND PROFESSIONAL QUALIFICATIONS / AFFILIATIONS:

- Professional Structural Engineer, Skill Level 1, PE, Engineers Australia, 2016.
- Consultant of Reinforced Concrete Design, Egyptian Syndicate of Engineers, 2013, Egypt.
- Ph.D. in Structural Engineering, "Dynamics/Boundary Elements", 2007, Cairo University, Egypt.
- M.Sc. in Civil (Structural) Engineering, "Reliability/Plastic Analysis", 2000, Cairo University, Egypt.
- B.Sc. Civil Engineering, 1994, Distinction Grade, Cairo University, Egypt.
 [GPA equiv. grade: Distinction, 88.5 %, Grades of all years: Distinction, Grade of project: Distinction.]
- Egyptian Syndicate of Engineers, Member, Egypt.
- Egyptian Society of Civil Engineers, Member, Egypt.

4- ACADEMIC WORK EXPERIENCE:

4-1 Full Time:

- Apr.2022 July2022: Visiting Scholar, Lawrence Technological University (LTU) Southfield, MI, USA. Sponsored by USAID.
- ♦ 2007 till now: Assistant Professor, the Higher Technological Institute (HTI) Ramadan 10th City, Egypt.
- ◆ 2000-2007: Assistant Lecturer, the Higher Technological Institute (HTI) Ramadan 10th City, Egypt.
- ◆ 1995-2000: *Tutor*, the Higher Technological Institute (HTI) Ramadan 10th City, Egypt.

4-1-1 Major Teaching Courses:

- Structural Analysis and Mechanics I.
- Structural Analysis and Mechanics II.
- Structural Analysis and Mechanics III.
- Structural Analysis and Mechanics IV.
- Structural Analysis and Mechanics V.

4-1-2 General Teaching Courses:

- Reinforced Concrete Design.
- Steel Design.
- Engineering Drawing.

- Selective Courses in Structural Analysis and Modelling.
- Selective Courses in Plastic Analysis.
- Computer Programming with FORTRAN.
- Structural Engineering Software Application with SAP, Etabs.

4-2 Part Time:

- Lecturer of Boundary Elements Courses at: Cairo University, Post Graduate Studies.
- Lecturer of Structural Analysis Courses at: The British University in Egypt (BUE).
- Lecturer of Steel Courses at: Al-Oubor High Institutes for Engineering.
- Lecturer of Structural Analysis Courses at: 6th of October High Institute for Engineering and Technology.
- Lecturer of Structural Analysis Courses at: Bailbais High Institute for Engineering.

4-3 Administration Works:

- Head of Civil Department Results Control.
- Student Credit Hour Supervisor.
- ICE HTI Branch Supervisor.
- Lecturer Assistants Coordinator.
- Graduation Projects Coordinator.
- Courses Specifications Quality Assurance.

4-4 List of Publications:

- Attia, M.M., Khalil, A.H.H., Mohamed, G.N., Samaan, M.F., & Katunský, D. Nonlinear behavior of bonded and unbonded two-way post-tensioned slabs pre-strengthened with CFRP laminates. Buildings 2023,13(35).
- Attia, M. M., Elshaer M.A., Shawky S.M.M., Samaan, M. F., (2022)," Replacement efficiency of steel reinforcement with FRB bars in RC beams under flexure load: experimental and FE study ", Innovative Infrastructure Solutions; 7 (5), 1-15.
- Mohamed G. N., Khalil A. H. H., Samaan, M. F., Hadad H. S. (2020), "Effect of Pre-Compression Ratio on the Flexural Behavior of Two Way Bonded Post Tensioned Slabs Pre-Strengthened with External CFRP Strips", Researcher;12(10):16-23.
- Mohamed G. N., Khalil A. H. H., Samaan, M. F., Hadad H. S. (2019):" The Flexural Behavior of Two Way Post Tensioned Slabs Pre-Strengthened With External CFRP", N Y Sci. J.;12(4):14-22.
- Samaan, M. F., Elshaer M.A. (2018),"Experimental and numerical investigation of flexural behaviour of new DSG reinforced concrete mixes reinforced with GFRP bars", Ain Shams Engineering Journal, 9 (4), 3437-3449.
- Samaan, M. F., Nassar M. E., and Rashed. Y.F. (2015), "Taylor Series Fast Multipole Boundary Element Method for Solution of Reissner's Shear Deformable Plate Bending Problems", Engineering Analysis with Boundary Elements, 59.
- Samaan, M. F., and Rashed. Y.F. (2009), "Internal Stress DRM Integral Equation for Transient Dynamics ", Advanced materials for applications for acoustics and vibrations, Cairo.
- Samaan, M. F., Ahmed, M. A., and Rashed. Y.F. (2007a), "The Dual Reciprocity Method Applied to Free Vibrations of 2D Structures using Compact Supported Radial Basis Functions", Computational Mechanics, 41(1).
- Samaan, M. F., and Rashed. Y.F. (2007b), "BEM for Transient 2D Elastodynamics Using Multiquadric Functions", Int. J. Solids Structures, 44.
- Samaan, M. F., and Rashed. Y.F. (2007c), "Free Vibration Multiquadric Boundary Elements Applied to Plane Elasticity", Appl. Math. Modeling, 33.
- Samaan, M. F., Ahmed, M. A., and Khalil, A. B., (2003), "Mechanism Generation for Solid Rectangular Reinforced Concrete Slabs", Proceedings of the tenth International Colloquium on Structural and Geotechnical Engineering, Ain Shams University, Cairo.
- Samaan, M. F., Ahmed, M. A., and Khalil, A. B., (2003), "Reliability Analysis of Solid Rectangular Reinforced Concrete Slabs", Proceedings of the tenth International Colloquium on Structural and Geotechnical Engineering, Ain Shams University, Cairo.

Google Scholar:

 $\underline{https://scholar.google.com/citations?view_op=list_works\&hl=ar\&hl=ar\&user=PSaoyiQAAAAJ\&sortby=pubdatered article ar$

Research Gate:
ORCID Record:https://www.researchgate.net/profile/Morcos-Samaan
https://orcid.org/0000-0001-6065-8080
22036548800

4-5 Research Fields:

- 1- Reliability of Structures
 - Overall Buildings Statically Reliability.
 - Reliability of Solid and Flat Slabs.
- 2- Dynamic Analysis for Tall Buildings
 - Pushover Analysis Under Lateral Loads.
- 3- Boundary and Finite Elements
 - Dynamics (Free and Forced Vibrations).
 - Computations (FMM, GPU).
- 4- Strengthening concrete elements with FRP.

4-6 Research Activities:

- 1- Member of the **Boundary Elements Research Group** headed by **Prof. Dr. Youssef Fawzi Rashed**, Deputy Secretary General, Supreme Council of Universities, Professor, Structural Engineering Department, Cairo University.
- 2- Member of the Boundary Elements Software Development Program (PLPAK) headed by **Prof. Dr. Youssef Fawzi Rashed**, *Deputy Secretary General, Supreme Council of Universities, Professor, Structural Engineering Department, Cairo University.*

4-7 Conferences Attended:

- New Modeling Aspects on Structural Engineering, Dubai, UAE, 2012.
- The 10th International Colloquium on Structural and Geotechnical Engineering, Ain Shams University, Cairo, 2003.

4-8 Thesis Supervisions:

Supervisor on two Ph.D. students and three M.Sc. students.

5- PRACTICAL WORK EXPERIENCE:

◆ Jan 1st 2016 – till now (2022):

[Founder, Consultant, and CEO of Structural Engineering Office]

Horizon for Consultancies and Engineering Services, Abbasia, Cairo, Egypt.

Duties/Responsibilities:

- Pursuing consultancy services to façade/curtain walls as well as marbles contracting companies including providing structural technical notes and other needed design/construction documentations/supervision for different structural elements.
- Estimating the overall cost for projects after studying the concept/tender drawings and documentations.
- Prepare the schedule plan for structural outputs including overall time frame, man-hours loading and submittal dates.
- Handling all project communications, modifications and updates with other parties through e-mails and technical meetings.
- Managing all structural teams throughout different project stages that include assigning analysis, design, and drafting tasks following tasks progresses providing technical support to solve pending issues or problems within any task.
- Reviewing of all issued structural outputs that include calculation notes, bill of quantities, structural specifications, detailed design drawings and construction drawings.
- Handle design liability by signing and stamping all issued documentations by his consultancy syndicate registered stamp.

Projects Samples:

[Grand Egyptian Museum, GEMIII – Consultant of Alural Company, Giza, Egypt: Representing the company in technical meetings also submitting structural technical notes to the main consultant (PMC-EHAF-HILL) (already get approved), for many structural elements including inclined pyramided curtain walls, internal marble cladding mechanical fixation, stainless steel capings, light roof copings, and aluminum louvers. Structural analysis and design included building the structural models against all governing loads (dead, wind, seismic,... etc), then performing a complete design according to the specified codes for the main aluminum elements (mullion and transom), steel elements, stainless steel elements, all welded or bolted connections, stainless body anchors / steel brackets, and anchor bolts].

[Grand Egyptian Museum, GEMIII – Consultant of Alumisr Company, Giza, Egypt: Representing the company in technical meetings also submitting structural technical notes to the main consultant (PMC-EHAF-HILL) (already get approved), for many structural elements including single units and multiple units of pyramided aluminum louvers. Structural analysis and design included building the structural model against all governing loads (dead, wind, seismic,.. etc), then performing a complete design according to the specified codes for the main aluminum elements, all welded or bolted connections, steel/stainless brackets, and anchor bolts].

[Grand Egyptian Museum, GEMIII – Consultant of Demarble Company, Giza, Egypt: Representing the company in technical meetings also submitting structural technical notes to the main consultant (PMC-EHAF-HILL) (already get approved), for many structural elements including a number of museum marble signs, about 12 different sizes Arabic and English guiding signs including the design of steel chase and their mechanical fixation, Structural analysis and design included building the structural model against all governing loads (dead, wind, seismic,... etc), then performing a complete design according to the specified codes for the marble units, main steel elements, all welded or bolted connections, steel/stainless brackets]

[Ski Plaza – Consultant of Alural Company, 6th of October, Egypt: submitting structural technical notes to the main consultant (MA) (already get approved), for all elevation curtain walls. Structural analysis and design included building the structural model against all governing loads (dead, wind, seismic,... etc), then performing a complete design according to the specified codes for the single and double glass panels, main aluminum elements (mullion and transom with steel insertions), bolted connections, steel brackets, and anchor bolts].

[Cloud Hub – Consultant of Alural Company, 6th of October, Egypt: submitting structural technical notes to the main consultant (SHAKER) for all elevation curtain walls. Structural analysis and design included building the structural model against all governing loads (dead, wind, seismic,.. etc), then performing a complete design according to the specified codes for the single and double glass panels, main aluminum elements (mullion and transom), bolted connections, steel brackets, and anchor bolts in both concrete and bricks].

[New Capital Administration Buildings, Block 9B&10B, AIB Bank, Command Control Center – Consultant of Alural Company, New Capital, Egypt: submitting structural technical notes to the main consultant (dar) (already get approved), for all elevation curtain walls and louvers. Structural analysis and design included building the structural model against all governing loads (dead, wind, seismic,... etc), then performing a complete design according to the specified codes for the single and double glass panels, main aluminum elements (louver blades and boxes -mollion and transom with steel insertions), bolted connections, steel brackets, and anchor bolts].

[New Capital Administration Buildings – Consultant of Elsoadaa Group Company, Red Sea Company, Samcrete Company, Siac Company, Alumisr Company – All Ministries curtain walls Eagle Signs and Arabic and English Title Signs Fixation System, New Capital, Egypt: submitting structural technical notes to the main consultant (dar) (already get approved), for all light steel/aluminum hanging structural systems including eagles, title singes, louvers, landscape marble pyramid and CW brackets. Structural analysis and design included building the structural model against all governing loads (dead, wind, temperature,...etc.), then performing a complete design according to the specified codes for the single and double glass panels, main aluminum elements (louver blades and boxes - mullion and transom with steel insertions), steel chases, bolted connections, steel brackets, and anchor bolts].

[Miscellaneous Projects in UAE, Egypt, and other countries – For example: Analysis, Design and producing construction drawings and calculation sheets for many projects such as Al Ain Zoo at Al Ain, UAE, and Planked Factory located at Badr City, and Saint Mark Hospital Located at Minia City, Egypt].

✤ Jan 1st 2014 - Jan 1st 2016:

[Partner, Consultant, and Head of Structural Department]

StepUp for Engineering Services, Nasr City, Cairo, Egypt.

Duties/Responsibilities:

- Estimating the overall cost for projects after studying the preliminary drawings and documentations.
- Prepare the schedule plan for structural outputs including overall time frame, man-hours loading and submittal dates.
- Handling all project communications, modifications and updates with other parties through e-mails and technical meetings.
- Managing his structural team throughout the whole project stages that include assigning analysis, design, and drafting tasks – following tasks progresses – providing technical support to solve pending issues or problems within any task.
- Reviewing of all issued structural outputs that include calculation notes, bill of quantities, structural specifications, detailed design drawings and construction drawings.
- Handle design liability by signing and stamping all issued documentations by his consultancy syndicate registered stamp.

Projects/Proposals Samples:

[Jabal Omar Development - Road E Bridge Redesign Proposal, KSA: The required design scope encompasses the redesign of the road bridge E within the existing area development to sustain the cooling towers transferred from nearby towers to the new location on top of the road bridge E. Additional deck will be added above the traffic deck to carry the moved cooling towers. It was asked from all candidate offices which included ours to submit a financial and technical proposal for the new bridge design. I investigated all aspects related to the new requirements. I then calculated the total cost of design and constructing the bridge including total estimation breakdown includes all related tasks. Then I finalized the needed form for the proposal and submitted it on time]

[Palm Hills Houses' Modifications Project, Egypt: I was tracking modifications done by each client's house to study the modifications' impact on safety of different structural elements. I put plans and strategies to the assigned teams to deal with any modification. Based on study and checking of safety of affected existing RC elements (slab-beam-column-footing-tie beams) through computer models and design calculations, I took decisions whether to keep the original

system and/or replacing it with another one to cope the new modification consequences and transferring loads through different new load paths. After work completion, I make final revision and stamping the final drawings/calculations with my registered consultancy stamp]

[Mivida City Design Review Project, Egypt: As consultant office we were assigned by the client to be a third party reviewer to check and confirm/adjust the original design prepared by the RC structural design office, EHAF. I conducted with my team a separate standalone new design of the houses. We made our own models, calculations, and designs according to the governing codes, geotechnical reports, and specifications of the project. Then I compared our output with the original one. I found that most of the original design was correct, however, some houses were found underestimated for some elements which needed either increasing of concrete dimensions and/or reinforcement ratios]

✤ Jan 1st 2013 - Dec 31st 2013:

[Partner and Head of Design & Supervision Sector]

Horizon for Engineering Design and Consultancies, Hurghada, Egypt.

Duties/Responsibilities:

- General Management of all design phases including: estimating project overall costs, preparing the governing codes and specifications, selecting/verifying the analysis and design softwares, and reviewing design drawings and calculations.
- General Management of all supervision phases including: preparing construction documents, reviewing and approving
 of shop drawings, material sheets, vendor lists, and bar lists provided by the contractors, assuring quality control in
 construction process, and inspecting/confirming each construction stage.
- Monitoring of all projects' procedures, work progress, and final completion to meet assigned time frames.
- Provide technical support for structural teams and guiding them to solve any problems in professional ways.
- Registering all issued design documentations from the authorized agency.
- Peer reviewing and issue design review reports in third parties projects.
- Represent the office in all other parties' communications, meetings, or contracting related to his specialization.

Projects/Proposals Samples:

[Irrigation Network & Associated Civil Works at Hail Al-Ghaf, Project, Oman: It was a design and built project. A complete civil works for the project was required. Elevated tank, side ditches, and precast RC inspection chambers are included in the design and shop drawings. I instructed my team to check all cases of loadings for water and earth loadings. I established special mathematical 3d model to consider the main items connectivity. I constructed the related design spread sheets for cast-in-situ and precast elements and then verified them for usage. I reviewed all design and detailed drawings along with the bar lists. I represented the office in the regular meetings with the client and other parties. I participated in a small operation group that was responsible for prompt solutions for site problems. Based on the stand-by plan, the project was operated successfully and we were awarded for the achievement]

[Balteem Building Inspection and Validation Project, Egypt: I was invited by the building's owner to make a validation report that judge the status of a damaged building located at Balteem city and its ability to be used. After visiting the building site and observing the current situation of the building, I noticed that as the building was suffering from many serious tensile cracks in main elements as columns or beams. The main reason for the cracks existence was the foundation differential settlement that was occurred due to drifting of supporting soil by sea ground flow. I gave the recommendation of Not-Safety case for current time. I advised to conduct a re-habitation process of the building and to perform supporting for the foundations by box solution to isolate them from sea underground flow]

[Minia Motrania Hospital Project, Egypt: The office was selected to be the structural design consultant for the hospital. I studied and coordinated with all architectural and MEP design drawings. I oriented our design team for choosing the most suitable statical system. I had chosen the flat slab system for horizontal elements, the column-core wall system for vertical elements, and the raft for foundations. Careful considerations were taken in zones with openings to avoid stress concentrations. During the construction period, I reviewed and corrected detailed drawings that provided by the contractor. I also regularly visited the site location to inspect work quality and give technical solutions to execution problems]

Aug 1st 2011 - Sep 13st 2012:

[Chief of Principal Structural Engineers & Member of Technical Reviewing Comities]

Al-Amar Consulting Group (AMG), Cairo, Egypt.

Duties/Responsibilities:

- ✓ **In-Hand Projects** (the group is the project consultant):
 - Estimating the overall cost for projects after studying the preliminary drawings and documentations.
 - Prepare the schedule plan for structural outputs including overall time frame, man-hours loading and submittal dates.
 - Handling all project communications, modifications and updates with other parties through e-mails and technical meetings.

- Managing the structural teams throughout the whole project stages that include assigning tasks following tasks progresses providing technical support to solve pending issues or problems within any task for all stages.
- Reviewing of all issued structural outputs whether they are design packages or construction packages.
- Carrying project design liability by signing and stamping all issued documentations by his consultancy syndicate registered stamp.

✓ **External Projects** (the group is the approval consultant):

- Approve/Comment the project preliminary issued documentations that include (the design criteria, the project code, specifications, materials, construction method).
- Approve/Comment the project stages issued Models, Calculation Notes, and Design Drawings.
- Issue a review report at 50% progress of the project and a final 3rd party peer review report upon project completion.
- Approve/Comment the Vendors list selection based on delivered profiles, CVs, and previous experiences in similar project.
- Approve/Comment the Main Contractor and Sub-Contractors selection based on delivered profiles, CVs, and previous
 experiences in similar project.
- Approve/Comment the Miscellaneous Material data sheets and samples submitted by the contractor's vendor supplier.
- Approve/Comment construction method of statements and site excavation drawings submitted by the contractor.
- Approve/Comment all construction documentations based on the approved detailing code that include detailed shop drawings (formworks and reinforcement details), and reinforcement bending lists submitted by the contractor.
- Approve/Comment any design modifications that proposed by the contractor due to any in situ changes that deviate from the original design.

Projects/Proposals Samples:

[Cairo Festival City (CFC) Project, Egypt: As a sample for in-hand project is CFC; which was spanning a land area of over 3 million sq. m (700 acres) that includes district cooling towers buildings. AMG consultation role was to produce construction documentation package for the contractor and get the main consultant approval. The work lasted for about one year. Due to the work complexity where the project consisted of many buildings, I put a plan to deal with the project. I highlighted major important outlines to manage the teams all the track of work flow done in each building. These outlines included prior orientation for the team, cooperate with the team leader in the development and verification of used spread sheets or software programs, regular meetings with the team to update them of any modification consequences or to solve pending issues, and final peer review of the issued construction package outputs. The stated plan was perfectly succeeded and we were able to meet every building submittal date and even complete the whole work before its time. As a result, about 90% of our submittal got approved with Code A (accepted), and the rest of them got Code B (accepted with minor comments).]

[Village Gardinia Katamia Project, Egypt: As a sample for external project, VGK; Village Gardens Katameya was a residential community sitting on 285,000 square meters in New Cairo. AMG was the construction general consultant. Our role was to approve, comment or reject all construction documentations that related to each stage from site excavation through shop drawings until finishing materials. I had chosen and given permission from my boss to be the stand-alone consultant that sign and stamp the contractor submittals with either approval (with or without comments) or rejection. It was common that there is always a gap of detailing between design drawings and construction drawings, in which contractors usually try to minimize their quantities to achieve their maximum profit outcome. My role as the consultant in this area was to ensure that every engineering concept and provisions included in the design is to be perfectly fulfilled in the construction outputs. Thus, a careful monitoring of this issue was done during the project different stages.]

♣ Jun 30th 2008 - Jun 21st 2011:

[Senior/Principal Structural Engineer]

e.Construct FZ-LLC (Also J.V.: A&A - e.Construct), Dubai, U.A.E, Cairo office, Egypt.

Duties/Responsibilities:

- Studying the original/preliminary project documentations to set up the project design criteria (the project design code, specifications, materials, construction method).
- Conducting a feasibility study of the project data to determine all alternative applicable systems that suits the project location, local materials and labors, constructability factors, and overall cost.
- Preparing the project plan that include a chart for the roles and assignments associated with the involved team and describing the individual and global responsibilities.
- Monitoring project progress and confirm man-hour consumptions and continuously evaluate the project level of consistency and correctness.
- Daily technical support to facilitate any technical problem arises within the work and advice for optimum paths for task achievements.
- Performing a final revision for every stage output before official submittals.
- Conducting regular meetings with the assigned teams to follow the work progress, point out any required modifications, and to figure out the main obstacles that face the work flow and how to overcome them.

- Representing the company in any project communications whether through formal E-mails or through indoor or outdoor meetings with other project parties and have the capability of taking any required major decisions after contacting management to have their approvals.
- Supervising on the project construction stage that includes regular travelling to the project site to inspect and assure the quality of the construction operations.
- Keep up to date with relevant field researches, on job training and orientation of staff with technology and information transfer.

Projects/Proposals Samples:

[Alrayyan High Rise Towers Project, Sharjah, UAE: The project was part of Alrayyan-Giant Shopping Mall and Residence at Al Nahda – Sharjah. The complex buildings were consisting of basements (mall parking), ground floor (hyper market), mezzanine floor, mall floor, four parking floors, podium floor (swimming pool, coffees & gym.), and four typical tower floors (33 floors), roof floor, and top roof floor. e.Construct was invited by the contractor/client to carry out value engineering study for the tower & podium areas in order to arrive to the most efficient structural system that achieve economy and better structural performance. We were mainly focusing on minimize the overall cost and duration of the project construction by providing smart solutions. The main system of the original design was traditional cast in situ flat slab for podium and tower for horizontal elements, columns, core and shear walls for vertical elements, and raft on piles for foundations. It was really a challenge to substitute the original system with another. Among several alternative solutions is the reduction of shear walls thickness and reinforcement, and converting the cast in situ slabs with precast pre-stressed hollow-core slab system with cast in situ structural topping rested on precast pre-stressed band beams. I was asked to arrange for a meeting with him to present our concept in details, explain and convince him with our system. I prepared my presentation and travelled with my manager to Dubai. The presentation was very effective and we succeeded to convince the consultant with our proposal.]

[Sheikh Jaber El-Ahmad Hospital Buildings Project, Kuwait: The project consultant was GULF CONSULT, and the contactor was THE ARAB CONTRACTORS and the client was the KUWAIT MINISTRY OF HEALTH. In this project, our team was concentrated on one from its buildings which was the underground car parking. The primary goal of our work was to substitute its current system for internal columns and beams from cast in situ system to be precast one instead, which targeted to reduce the total construction cost and period. My mission was to prepare and finalize a complete presentation that includes our vision, methodology and procedure for project construction which are supported with design verifications. I began my comprehensive study for alternative solution. I constrained myself with many parameters to guide me through my study. These parameters were: local materials and their suppliers, types of system usually used in the country, labor cost, soil-structural interaction, construction equipment's costs and facilities, and environmental factors. Then, I emerged to the solution: The proposed system consists of full height precast columns that support the precast beams by their corbels and those by their turn support the flooring systems which are the double T slabs with band beams in basement floors and hollow core slab with I-beam girders for ground floor. Representing the company, I travelled to Kuwait to present a presentation to the client. Finally, I succeeded to obtain approval for our proposal.]

Sep 1st 2005 - Sep 1st 2007:

[Senior Structural Engineer]

Concrete Consultative Office, Engineering Design Office (Dr. Mostafa Abdel-Latif), Cairo, Egypt.

Duties/Responsibilities:

- Setting out Structural Statical Systems for vertical/horizontal elements.
- Structural Architectural/MEP drawings coordination.
- Building and Analyzing the Structural Computer Model.
- Design of all concrete elements according to the Egyptian/BS Codes.
- Preparing and finalizing the detailed/permit structural drawings including the associated calculation notes.
- Represent the office in any technical/coordination meetings.
- Preparing the final Construction Package that includes shop drawings, project specifications, and bill of quantities.

Projects role brief:

[I was a leader of a group of four engineers. And I was reporting to my principle engineer who was responsible of the whole office structural division works. In any project, I usually prepare the work plan that includes time duration, priorities and progress percentages for each task. Then after I have the management approval for the plan, I distribute the project tasks on my team. Those tasks included: coordination process with other disciplines drawings, setting up the statical structural system for vertical and horizontal main supporting elements, constructing preliminary structural drawings, building computer models, analysis of structural elements internal stresses and strains, design of all structural elements, and finalizing detailed structural drawings with calculation notes. I always select most critical tasks to be done by myself like: review of computer models, preparing and verifying design sheets according to governing codes and specifications, and design of main supporting elements.]

5-2 Part Time:

[I began my practical experience at FERROMETALCO, the Egyptian Branch of the German Steel Company (DSD) Cairo, Egypt) from 1994 to 1995. I was working partially at project departments. My duty was assisting the relevant engineer in preparing quotations and performing technical analysis and design for metal vessels under pressure. After that, I was working as Junior Structural Engineer at Engineering Design Office (Dr. Asad Ibrahim Salama) from 1995 to

1998, and at Engineering Design Office (Eng. Adel Youssef Bassili) from 1998 to 2005. My main tasks was modeling, analysis, design, and drafting of several reinforced concrete buildings and houses. The Analysis and design of all elements was made under different combinations of vertical and lateral loadings.]

5-3 List of Projects:

- ✓ For Full Time periods since 2005 till now:
 - Kindly refer to the attached HR letters.
- ✓ For Part Time periods since 1995 to 2005:
 - Steel Vessels, Hamburg, Germany.
 - King-Faisl International Bank, Dokki, Giza, Egypt.
 - Meridian Hotel, Sharm-Elshaikh, Egypt.
 - Maadi Mall- Maadi, Cairo, Egypt.
 - Portsaid High-Rising Building, Portsaid, Egypt.
 - Mossadak Building, Giza,, Egypt.

- Mobinil Transition Towers, Cairo, Egypt.
- Mobinil Mini Cell Towers, Cairo, Egypt.
- Residential buildings, El-Obour, Egypt.
- Residential buildings, New Cairo, Egypt.
- Residential buildings, Cairo, Egypt

<u>6- REFERRENCES:</u>

6-1 Academic:

- 1- Dr. Ahmed Azmy, Professor of Structural Analysis, the Higher Technological Institute (HTI), Egypt. Mobile: +201002551181, Email: <u>dr_ahmed_azmy@hti.edu.eg</u>
- Dr. Mena Bebawy, Associate Professor of Structural Analysis, Lawrence Technological University (LTU), Mobile: +12484700823, Email: <u>mbebawy@ltu.edu</u>
- 3- Dr. Maguid M. Hassan, Faculty of Engineering's Dean of the British University in Egypt, (BUE), Egypt. Mobile: +201001488836, Email: <u>mhassan@bue.edu.eg</u>

6-2 Practical:

- 1- Dr. Eng. Mostafa Abdel-Latif Mostafa, Owner of Concrete Consultative Office Mobile: +201006053625, Email: <u>drmostafasaad@yahoo.com</u>
- 2- Eng. Moemen Ibrahim Kamal, Senior Engineer at eConstruct Fz LLC Mobile: +201001476087, Email: <u>moemenmiali@gmail.com</u>
- 3- Eng. Khaled Saleh A El Fattah, General Manager of STEP UP for Engineering Service Mobile: +20100 175 2219, Email: <u>ksaleh@ses-eg.com</u>

Jul. 6th, 2022

Egyptian Cultural & Educational Bureau - Embassy of Egypt 1303 New Hampshire Avenue NW, Washington DC, 20036 <u>Tel:202-296-4056</u>, Fax: (202) 296-3891

meid@eecous.net, www.eecous.net

Attn: GSP-T-105 for Dr. Morcos Farid Samaan Elrashidi

Supervisor Input;

During the training period, Dr. El-Rashidi has participated in several research activities experimentally and analytically. He participated in the design, construction, and testing of half-scale and full-scale highway bridge beams prestressed with innovative carbon fiber-reinforced polymer (CFRP) strands. Reinforcing and prestressing bridge beams with CFRP strands ensures their durability and resistance to environmental conditions.

Dr. El-Rashidi also participated in analytical work focusing on the performance of CFRP prestressed bridge beams under fire events. He analyzed multiple sets of experimental results that were collected from an earlier research project and performed the necessary literature review and the analytical work to correlate the experimental work to current state of knowledge and assist engineers and bridge owners in estimating the safety of bridge structures with CFRP reinforcement. The comprehensive research work by Dr. el-Rashidi were summarized in two journal manuscripts. The first manuscript is titled: "*Performance of Full-Scale Precast Beams Prestressed with CFRP Strands under Fire*," and is submitted to American Society of Civil Engineers (ASCE) Journal of Composites for construction. The manuscript is currently under review. The second manuscript is titled: "*Bond Strength between CFRP Strands and Concrete under Fire Events*,". This manuscript is currently under its final phase of preparation and will be submitted soon for review and possible publication.

By joining the research team at the Center for Innovative Materials Research (CIMR) at Lawrence Technological University, Dr. El-Rashidi was exposed to different research skills and was able to acquire the necessary training needed to further his professional/academic career and enhance his knowledge and understanding for the state-of-the-art research in the U.S.A. Correspondingly, Dr. El-Rashidi has positively impacted the research program at the CIMR and his four-month training was fruitful to all parties involved. The research team at the CIMR acknowledges and appreciates the hard work and influence of Dr. El-Rashidi on different research activities.

Please feel free to contact me if you have any questions or concerns

Regards,

Mena Bebawy, PhD, P.E.



Associate Professor

Department of Civil and Architectural Engineering Lawrence Technological University 21000 West Ten Mile Rd., Southfield, MI 48075 Tel: 1-248-204-2564 Fax: 1-248-204-2568



CERTIFICATE OF MERIT UNDER THE SUFERVISION OF INSTITUTION OF CIVIL ENGINEERS

THE INSTITUTION OF CIVIL ENGINEERS AT THE 10TH OF RAMADAN CITY GRANTED

DR. MORCOS FARID

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PROGRAM

GIVEN AT THE 15TH OF MAY, 2014

BRANCH VICE PRESIDENT ENG.AHMAD ABBADDY

DR.AYMAN NASSAR BRANCH SUPERVISOR

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BRANCH PRESIDENT ENG.OM.AR. EL-KADY 2 10 AS

