

مشروع القطار الكهربائي السريع (أكتوبر - اسوان) القطاع الثالث
مقاييس تقديرية إكمال أعمال الجسر الترابي من منسوب الأرض الطبيعية حتى منسوب ١٢٠ متر من منسوب الفيضان
في المسافة من كم ٤٤٤+٧٧ حتى ٤٤٥+٨٠ بطول ١,٠٢٠ كم لتنفيذ شركة الغازي للمقاولات العمومية

رقم بند	بيان الأصل	الكمية	سعر قلة	الإجمالي
٢	أرض تراب Embankment			
١٦	بشتر العمل: أعمال تدعيم دائرية ونقل تربة مطبقة لتوصيلات وتثبيتها باستخدام آلات قصوية بسك ٧ بوزيد عن ٥٠ سم متر منسوب (200 متر) وبسك ٤ بوزيد عن ٤٥ سم لاستكمال المنسوب التصميمي لتثبيت الجسر والانتكاف (نسبة تدعيم بالفلورا ٧ نل عن ٩٠%) ورشها بسمك الاسفلت لتوصيل في نسبة الرطوبة المقترحة وذلك بعد تجهيز بطهرات التوصل في الصي تلة جافة (٩٥% من التلة الجافة القصوى) ويتم تثبيتها طبقا للتصميمية ولطاعت العرضية للتوصيلية و ترسومات التصميمية المعتمدة واليد بجمع شملت تلك لاصول الصناعة ومواصلات الهيئة العامة للطرق والفلورا وتعليمات المهندس المشرف مشروفا - في حدة طلب جدران الاتراف لكمة نسبة كدث عن ٩٠% بحسب لكمة ١ حدة على لكمة نسبة كدث لكة ٩٠% مسافة لكة ٢ كم ويتم حساب علوا ١٠ حدة لكة لم يلمح لكة او القلصن - السعر يشمل عمل تشويكات وتلطيخ واختبرات ونقل مزلج العمل متر مسافة ٢ كم وتجه ٧ بشل لكمة صمغية	120,000	60	7,248,000
	علارة مسافة نل ٢٨ كم		42	5,073,600
	علارة توريد تربة		13	1,570,400
	لكمة لكمة صمغية لكمة		44.80	3,411,840
	علارة لكمة لكمة		1.6	193,280
١٧	بشتر العمل: أعمال تدعيم دائرية ونقل تربة مطبقة لتوصيلات وتثبيتها باستخدام آلات قصوية بسك ٧ بوزيد عن ٥٠ سم متر منسوب (200 متر) وبسك ٤ بوزيد عن ٤٥ سم لاستكمال المنسوب التصميمي لتثبيت الجسر والانتكاف (نسبة تدعيم بالفلورا ٧ نل عن ٩٠%) ورشها بسمك الاسفلت لتوصيل في نسبة الرطوبة المقترحة وذلك بعد تجهيز بطهرات التوصل في الصي تلة جافة (٩٥% من التلة الجافة القصوى) ويتم تثبيتها طبقا للتصميمية ولطاعت العرضية للتوصيلية و ترسومات التصميمية المعتمدة واليد بجمع شملت تلك لاصول الصناعة ومواصلات الهيئة العامة للطرق والفلورا وتعليمات المهندس المشرف مشروفا - السعر يشمل عمل تشويكات وتلطيخ واختبرات ونقل مزلج العمل متر مسافة ٢ كم وتجه ٧ بشل لكمة صمغية - مسافة لكة ٢ كم ويتم حساب علوا ١٠ حدة لكة لم يلمح لكة او القلصن - السعر يشمل عمل تشويكات وتلطيخ واختبرات ونقل مزلج العمل متر مسافة ٢ كم وتجه ٧ بشل لكمة صمغية	500,00	110	55,000
	علارة لكمة لكمة		10	1,500
الإجمالي (لكة وقدره ثمانية عشر مليوناً وخمسة مائة وثلاثة وخمسون ألفاً وستة وعشرون حدها مصرها لا غير)				
				19,553,620

مدير عام المشروعات

مدير المشروع (لجنة الطرق والفلورا)

مهندس المشروع (لجنة الطرق والفلورا)

مدير المشروع الاستشاري

مدير المشروع المقاول

أ. م. محمد

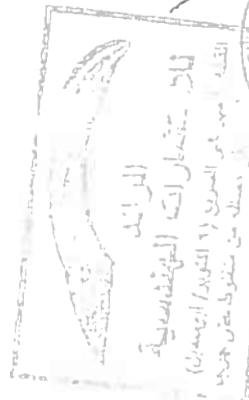
أ. م. محمد

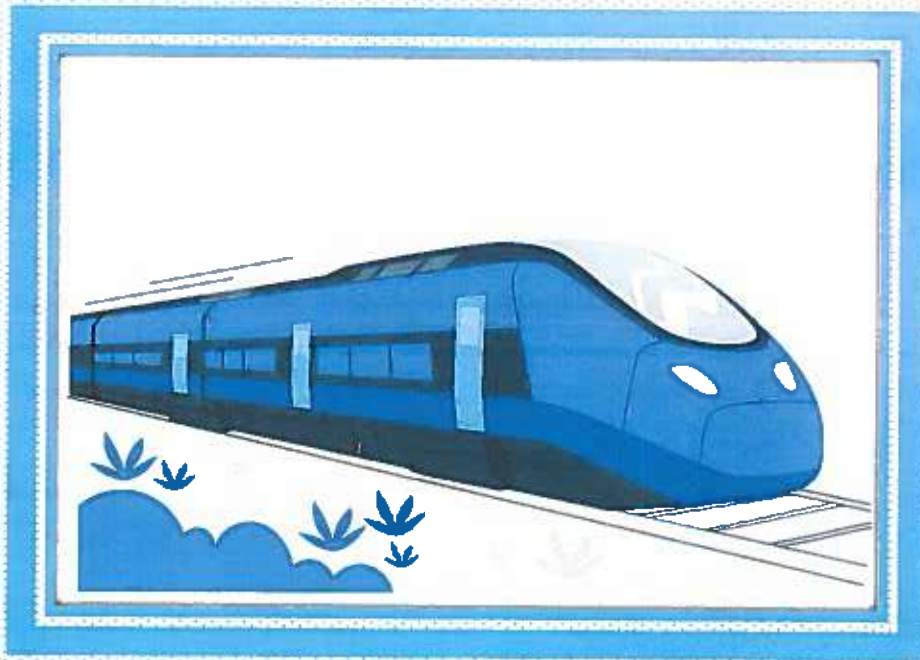
أ. م. محمد

أ. م. محمد

أ. م. محمد

رئيس الإدارة المركزية





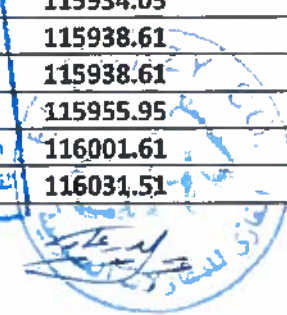
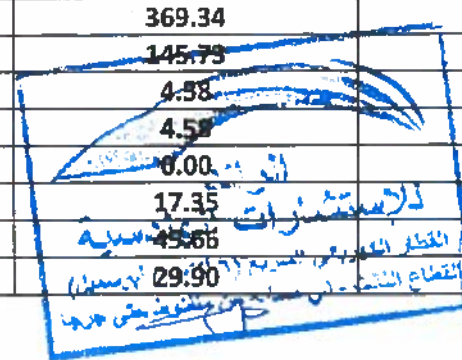
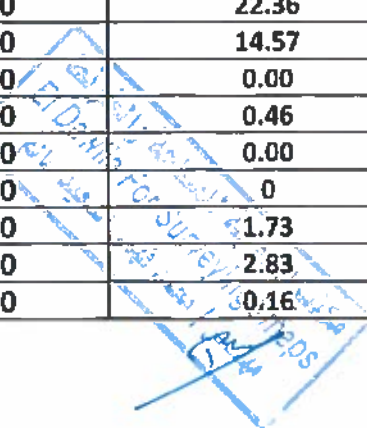
حصر المستخلص والقطاعات العرضية

شركة الغاز للمقاولات العامة



حصر as built لكميات الردم المنفذة لشركة الغازي للمقاولات العامة حتى تاريخ ٢٠٢٤/٠١/٠٣

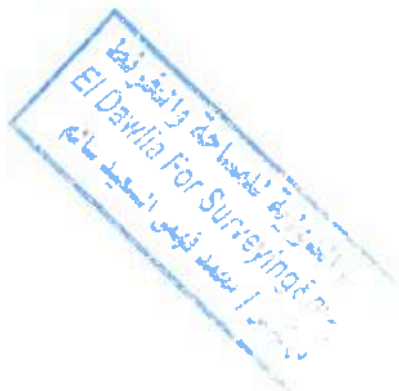
اسم المشروع /			المالك /
مشروع القطار الكهربائي السريع القطاع الثالث منفلووط / جرجا			الهيئة العامة للطرق والكباري
مكتب الدولي للمساحة والخرائط			مكتب الراشد للاستشارات الهندسية
الشركة المنفذة /			قطاع شركة الغازي للمقاولات العامة في المسافة من الكم. ٤٤٤+٧٧٠ الى الكم. ٤٤٥+٨٠٠ من منسوب الارض الطبيعية حتى منسوب ١٣ م
Station	Fill Area (Cu.M.)	Fill Volume (Cu.M.)	Cum. Fill Vol. (Cu.M.)
444+770	631.38	0.00	0
444+780	644.13	6,377.55	6377.55
444+800	504.39	11,485.20	17862.75
444+820	229.99	7,343.82	25206.57
444+840	65.29	2,952.77	28159.33
444+860	49.06	1,143.43	29302.76
444+880	68.8	1,178.59	30481.35
444+900	170.29	2,390.92	32872.28
444+920	236.17	4,064.61	36936.89
444+940	327.45	5,636.25	42573.13
444+960	376.16	7,036.12	49609.25
444+980	374.03	7,501.92	57111.17
445+000	368.32	7,423.48	64534.65
445+020	353.94	7,222.58	71757.23
445+040	329.07	6,830.17	78587.4
445+060	318.15	6,472.28	85059.69
445+080	298.86	6,170.19	91229.87
445+100	227.87	5,267.39	96497.26
445+120	108.85	3,367.20	99864.45
445+140	43.39	1,522.31	101386.77
445+160	34.93	783.20	102169.97
445+180	49.89	848.30	103018.26
445+200	100.19	1,500.86	104519.13
445+220	96.93	1,971.24	106490.37
445+240	50.96	1,478.94	107969.3
445+260	58.76	1,097.18	109066.48
445+280	29.36	881.14	109947.62
445+300	68.17	975.32	110922.95
445+320	42.06	1,102.34	112025.28
445+340	64.83	1,068.89	113094.17
445+360	72.41	1,372.44	114466.62
445+380	22.36	947.76	115414.37
445+400	14.57	369.34	115783.72
445+420	0.00	145.73	115929.45
445+440	0.46	4.58	115934.03
445+460	0.00	4.58	115938.61
445+480	0	0.00	115938.61
445+500	1.73	17.35	115955.95
445+520	2.83	45.66	116001.61
445+540	0.16	29.90	116031.51

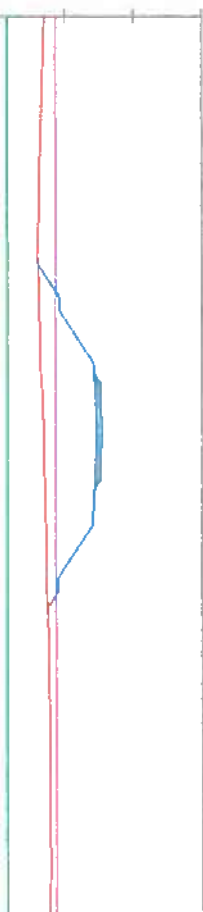




حجم as built لكميات الردم المنفذة لشركة الغازي للمقاولات العامة حتى تاريخ ٢٠٢٤/١/٠٣

اسم المشروع /		مشروع القطار الكهربائي السريع القطاع الثالث منفلوط / جرجا	
المالك /		الهيئة العامة للطرق والكباري	
استشاري المساحة /		مكتب الدولية للمساحة والخرائط	
استشاري المشروع /		مكتب الرائد للاستشارات الهندسية	
الشركة المنفذة /		قطاع شركة الغازي للمقاولات العامة في المسافة من الكم ٤٤٤+٧٧٠ الى الكم ٤٤٥+٨٠٠ من منسوب الأرض الطبيعية حتى منسوب ١٢٠ م	
Station	Fill Area (Cu.M.)	Fill Volume (Cu.M.)	Cum. Fill Vol. (Cu.M.)
445+560	4.14	43.00	116074.52
445+580	0	41.42	116115.94
445+600	0	0.00	116115.94
445+620	0	0.00	116115.94
445+640	0	0.00	116115.94
445+660	0	0.00	116115.94
445+680	0	0.00	116115.94
445+700	0	0.00	116115.94
445+720	0	0.00	116115.94
445+740	0	0.00	116115.94
445+760	0	0.00	116115.94
445+780	0	0.00	116115.94
445+800	0	0.00	116115.94
445+820	0	0.00	116115.94
445+840	0	0.00	116115.94
445+860	0	0.00	116115.94
445+866.78	0	0.00	116115.94
116115		اجمالي كمية الردم (متر مكعب)	
93000		ماتم صرفه	
23115		المتبقى	
		مهندس الشركة	
		مهندس المكتب الفني (مكتب الدولية)	
		مهندس المكتب الفني (مكتب الرائد)	
		مدير مشروع استشاري الهيئة (مكتب الرائد)	
		مهندس الاشراف (هيئة الطرق والكباري)	



$$445 + 866.78$$


Accepted 12/27/2007; see Supplement 4:41-46 h 379			
Mathematical Prognosis	A-100	Mathematical	Combinatorial Prognosis
Mathematical - [11]	10000	10000	1000000000

EXISTING ELEVATIONS	DESIGN ELEVATIONS	DIFF
117.45		
116.98		
116.91		
116.82		
116.72		
116.67		
116.64		
116.60		
116.55		
116.47		
116.40		
116.31		
116.28		
116.27		
116.21		
116.15		
116.05		
115.99		
116.07		
116.18		
116.26		
116.35		
116.43		
116.44		
116.43		
116.44		
116.53		
116.64		
116.78		
116.80		
116.95		
117.00		
117.03		
117.06		
117.07		
117.10		
117.12		
117.21		
117.29		
117.32		
117.33		
117.39		
117.45		
117.51		
117.57		
117.61		
117.67		
117.66		
117.68		
117.65		
117.72		
117.82		
117.80		
117.78		
117.80		
117.85		
117.90		
117.90		
117.89		
117.89		
117.93		
118.00		
117.95		
117.85		
117.76		
	117.26	-0.17
	117.59	-1.40
	118.92	-2.66
	119.30	-2.98
	120.26	-3.83
	121.59	-5.15
	122.92	-6.50
	124.26	-7.82
	124.38	-7.84
	124.46	-7.81
	124.54	-7.76
	124.62	-7.71
	124.70	-7.75
	124.62	-7.62
	124.54	-7.51
	124.46	-7.39
	124.38	-7.30
	124.30	-7.19
	124.22	-7.09
	124.18	-6.98
	124.15	-6.96
	124.12	-6.80
	124.08	-6.45
	124.06	-5.77
	124.05	-1.00

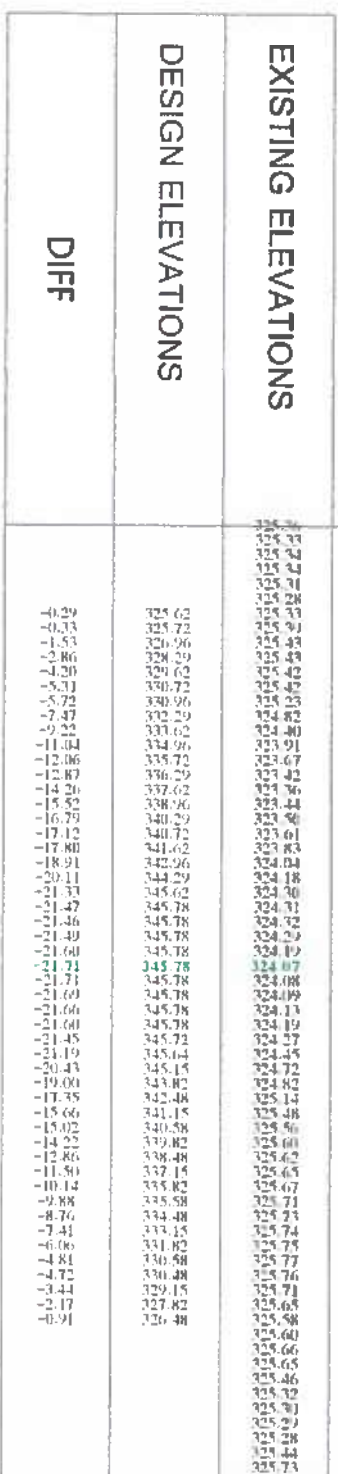
ELGHAZY

ELDAWILA

ELRAEID Consulting :

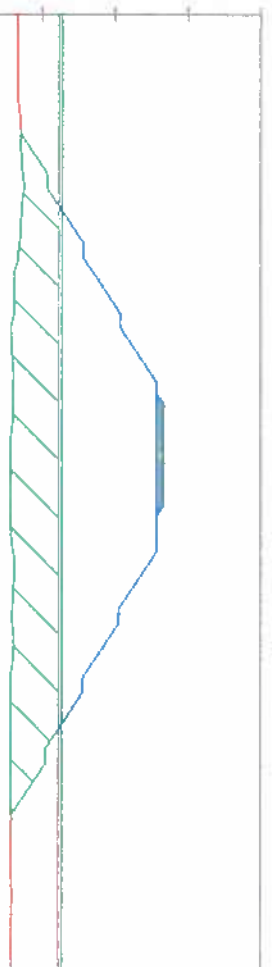


Niveau des $\overline{10}^{\text{e}}$ et $\overline{15}^{\text{e}}$ en $\overline{10}^{\text{e}}$ et $\overline{15}^{\text{e}}$			
Nombre de points	1. $\overline{10}^{\text{e}}$	2. $\overline{15}^{\text{e}}$	3. $\overline{10}^{\text{e}}$ et $\overline{15}^{\text{e}}$
Nombre de points	4. 1.1	4. 1.2	4. 1.3



ELRAEID Consulting :

444+800.00



Stationed - (m)	444+800.00
Stationed - (ft)	1460.00

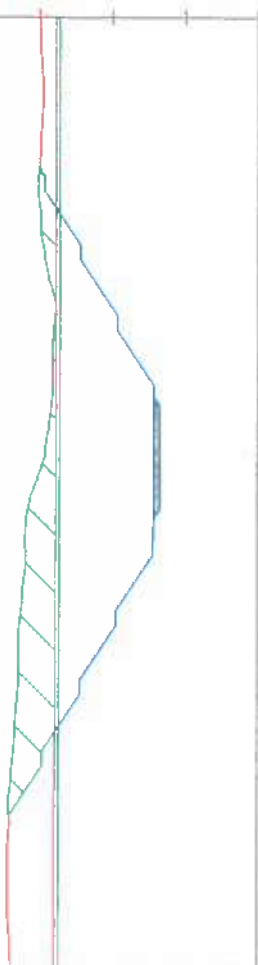
EXISTING ELEVATIONS	DESIGN ELEVATIONS	DIFF
444.80	444.80	0.00
444.75	444.75	0.00
444.70	444.70	0.00
444.65	444.65	0.00
444.60	444.60	0.00
444.55	444.55	0.00
444.50	444.50	0.00
444.45	444.45	0.00
444.40	444.40	0.00
444.35	444.35	0.00
444.30	444.30	0.00
444.25	444.25	0.00
444.20	444.20	0.00
444.15	444.15	0.00
444.10	444.10	0.00
444.05	444.05	0.00
444.00	444.00	0.00
443.95	443.95	0.00
443.90	443.90	0.00
443.85	443.85	0.00
443.80	443.80	0.00
443.75	443.75	0.00
443.70	443.70	0.00
443.65	443.65	0.00
443.60	443.60	0.00
443.55	443.55	0.00
443.50	443.50	0.00
443.45	443.45	0.00
443.40	443.40	0.00
443.35	443.35	0.00
443.30	443.30	0.00
443.25	443.25	0.00
443.20	443.20	0.00
443.15	443.15	0.00
443.10	443.10	0.00
443.05	443.05	0.00
443.00	443.00	0.00
442.95	442.95	0.00
442.90	442.90	0.00
442.85	442.85	0.00
442.80	442.80	0.00
442.75	442.75	0.00
442.70	442.70	0.00
442.65	442.65	0.00
442.60	442.60	0.00
442.55	442.55	0.00
442.50	442.50	0.00
442.45	442.45	0.00
442.40	442.40	0.00
442.35	442.35	0.00
442.30	442.30	0.00
442.25	442.25	0.00
442.20	442.20	0.00
442.15	442.15	0.00
442.10	442.10	0.00
442.05	442.05	0.00
442.00	442.00	0.00
441.95	441.95	0.00
441.90	441.90	0.00
441.85	441.85	0.00
441.80	441.80	0.00
441.75	441.75	0.00
441.70	441.70	0.00
441.65	441.65	0.00
441.60	441.60	0.00
441.55	441.55	0.00
441.50	441.50	0.00
441.45	441.45	0.00
441.40	441.40	0.00
441.35	441.35	0.00
441.30	441.30	0.00
441.25	441.25	0.00
441.20	441.20	0.00
441.15	441.15	0.00
441.10	441.10	0.00
441.05	441.05	0.00
441.00	441.00	0.00
440.95	440.95	0.00
440.90	440.90	0.00
440.85	440.85	0.00
440.80	440.80	0.00
440.75	440.75	0.00
440.70	440.70	0.00
440.65	440.65	0.00
440.60	440.60	0.00
440.55	440.55	0.00
440.50	440.50	0.00
440.45	440.45	0.00
440.40	440.40	0.00
440.35	440.35	0.00
440.30	440.30	0.00
440.25	440.25	0.00
440.20	440.20	0.00
440.15	440.15	0.00
440.10	440.10	0.00
440.05	440.05	0.00
440.00	440.00	0.00



ELGHAZY :
ELDAWLA :
ELRAIED Consulting :

المرآة الهندسية
للإستشارات الهندسية
المطبعة الهندسية
في منطقة من القاهرة الجديدة

444+820.00



Water bath (°C) at incubation: 44.0 ± 0.10			
Method of Plasmid	Acids	Volumes	Concentration of Volumes
Standard (1)	2.19 g/L	71.05 L	29.304 g/L

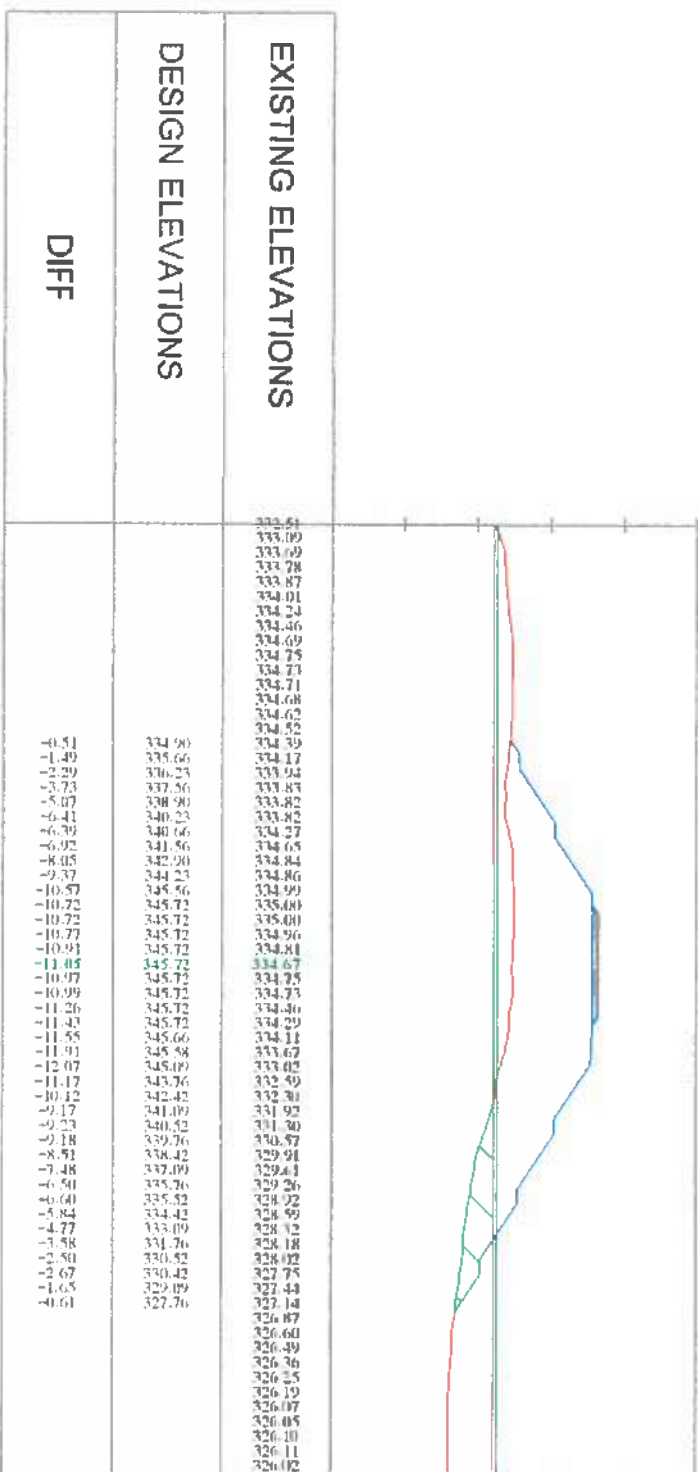
EXISTING ELEVATIONS	DESIGN ELEVATIONS	DIFF
329.04		
330.03		
330.12		
330.27		
330.36		
330.46		
330.41		
330.30		
330.19		
330.03		
329.96		
329.89	330.68	-0.80
329.83	330.92	-1.08
330.05	332.25	-2.20
330.25	333.58	-3.33
330.32	334.92	-4.60
330.65	335.68	-5.03
330.99	336.25	-5.26
331.39	337.58	-6.19
332.05	338.92	-6.86
332.18	340.25	-8.07
332.84	340.68	-8.64
331.91	341.58	-9.67
331.85	342.92	-11.07
331.87	344.25	-12.38
331.89	345.58	-13.70
331.74	345.74	-14.00
331.59	345.74	-14.16
331.30	345.74	-14.45
330.99	345.74	-14.75
330.73	345.74	-15.01
330.08	345.74	-15.66
329.35	345.74	-16.39
328.67	345.74	-17.07
327.54	345.74	-17.41
327.07	345.68	-17.61
328.11	345.60	-17.49
328.15	345.11	-16.96
328.06	343.78	-15.72
327.82	342.44	-14.62
327.62	341.11	-13.49
327.47	340.54	-13.07
327.42	339.78	-12.46
327.32	338.44	-11.12
327.33	337.11	-9.78
327.26	335.78	-8.52
327.11	335.54	-8.43
326.97	334.44	-7.47
326.84	333.11	-6.27
326.71	331.78	-5.07
326.58	330.54	-3.97
326.40	330.44	-4.04
326.19	329.17	-2.92
326.01	327.78	-1.76
325.99	326.44	-0.46

ELDAWLIA:

ELRAEID Consulting



444+840.00

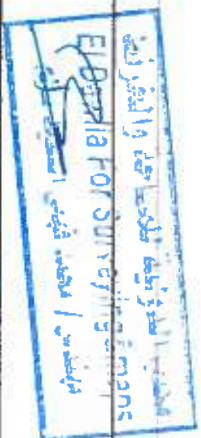


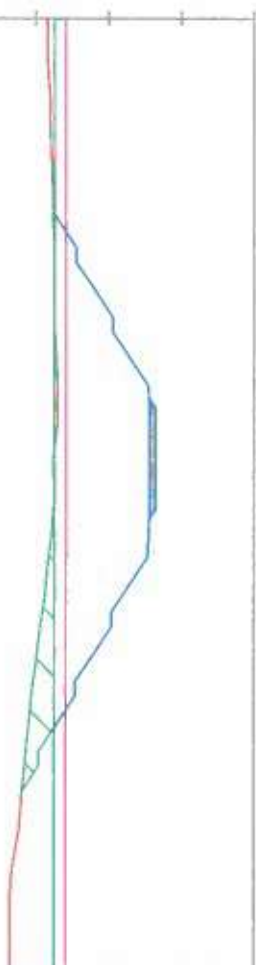
Station	Station	Station	Station
444+770	444+800	444+830	444+860
444+770	444+800	444+830	444+860
444+770	444+800	444+830	444+860

ELGHAZY :

ELDAWLA :

ELRAEID Consulting :



$$444 + 880.00$$


Molecular Weight of Polymers 4410-5000 (lb)		
Molecular Weight	44100	Cumulative Volume
Molecular Weight	44100	44100

EXISTING ELEVATIONS	DESIGN ELEVATIONS	DIFF
331.99		
331.99		
331.82		
331.99		
332.05		
332.10		
332.14		
332.12		
332.28		
332.36		
332.45		
332.50		
332.56		
332.61		
332.69		
332.74		
332.75		
332.71		
332.67		
332.74		
332.85		
332.93		
333.01		
333.09		
333.07		
333.06		
333.00		
332.79		
332.58		
332.60		
332.74		
332.69		
332.50		
332.31		
332.10		
331.85		
331.65		
331.46		
331.22		
330.88		
330.61		
330.34		
330.12		
329.85		
329.60		
329.41		
329.20		
329.00		
328.79		
328.60		
328.78		
328.17		
328.01		
327.85		
327.51		
327.15		
326.82		
326.47		
326.54		
326.44		
326.58		
331.52		-0.96
334.86		-1.34
335.62		-2.94
336.19		-3.44
337.52		-4.77
338.86		-5.15
340.19		-7.52
340.62		-7.89
341.52		-8.67
342.86		-9.92
344.19		-11.18
345.52		-12.44
345.68		-12.62
345.68		-12.68
345.68		-12.89
345.68		-13.10
345.68		-13.08
345.68		-12.95
345.68		-12.99
345.68		-13.18
345.62		-13.31
345.54		-13.44
345.05		-13.20
343.72		-12.66
342.38		-10.93
341.05		-9.82
340.48		-9.60
339.72		-9.10
338.38		-8.04
337.05		-6.93
335.72		-5.88
335.48		-5.88
334.38		-4.98
333.05		-3.85
331.72		-2.72
330.48		-1.69
330.38		-1.78
329.05		-0.66

ELRAEID Consulting

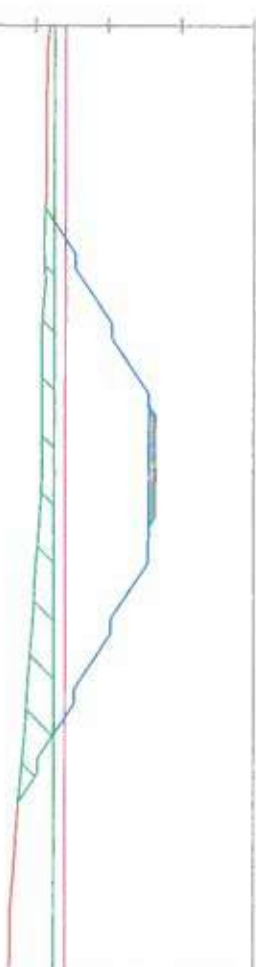
El Davidia Ek Surveying & maps

[illegible]

الملك فيصل
عبد العزيز آل سعود
مفتي الجمهورية
أحمد محمد صالح

444+900.00

EXISTING ELEVATIONS	444+770	444+771	444+772	444+773	444+774	444+775	444+776	444+777	444+778	444+779	444+780	444+781	444+782	444+783	444+784	444+785	444+786	444+787	444+788	444+789	444+790	444+791	444+792	444+793	444+794	444+795	444+796	444+797	444+798	444+799	444+800
	332.17	333.50	334.84	335.60	336.17	337.90	338.84	340.17	340.60	341.50	342.84	343.17	343.50	343.84	344.17	344.50	344.84	345.17	345.50	345.84	346.17	346.50	346.84	347.17	347.50	347.84	348.17	348.50	348.84	349.17	349.50
DESIGN ELEVATIONS	332.17	333.50	334.84	335.60	336.17	337.90	338.84	340.17	340.60	341.50	342.84	343.17	343.50	343.84	344.17	344.50	344.84	345.17	345.50	345.84	346.17	346.50	346.84	347.17	347.50	347.84	348.17	348.50	348.84	349.17	349.50
	332.17	333.50	334.84	335.60	336.17	337.90	338.84	340.17	340.60	341.50	342.84	343.17	343.50	343.84	344.17	344.50	344.84	345.17	345.50	345.84	346.17	346.50	346.84	347.17	347.50	347.84	348.17	348.50	348.84	349.17	349.50
DIFF	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

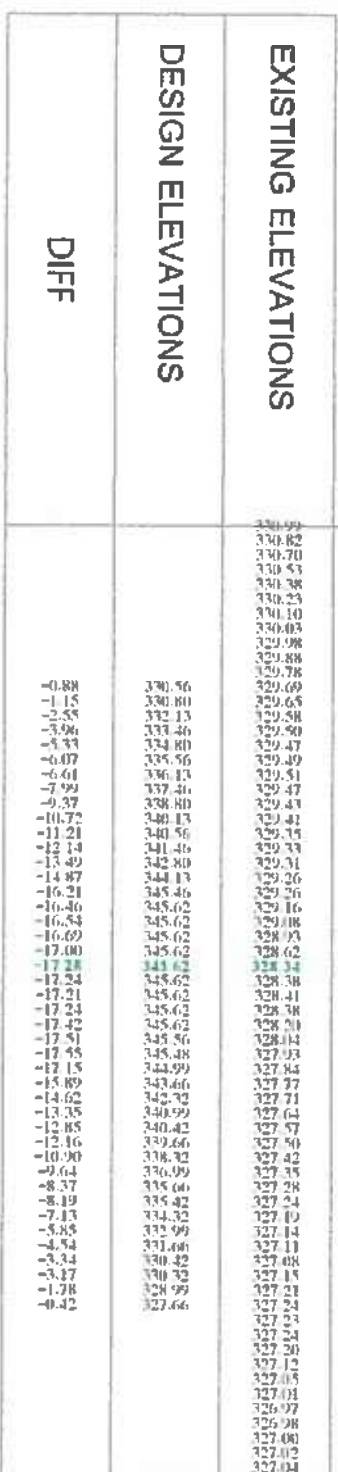


Station	Area	Volume	Comments
444+770	1.00	1.00	1.00
444+800	1.00	1.00	1.00





Electrol 7701 at 16.00000 44.5-5.40 100			
Meq/l	mg/l	mg/l	mg/l
11	127.41	36.96	4.1376



DIFF

ELDAWLIA:

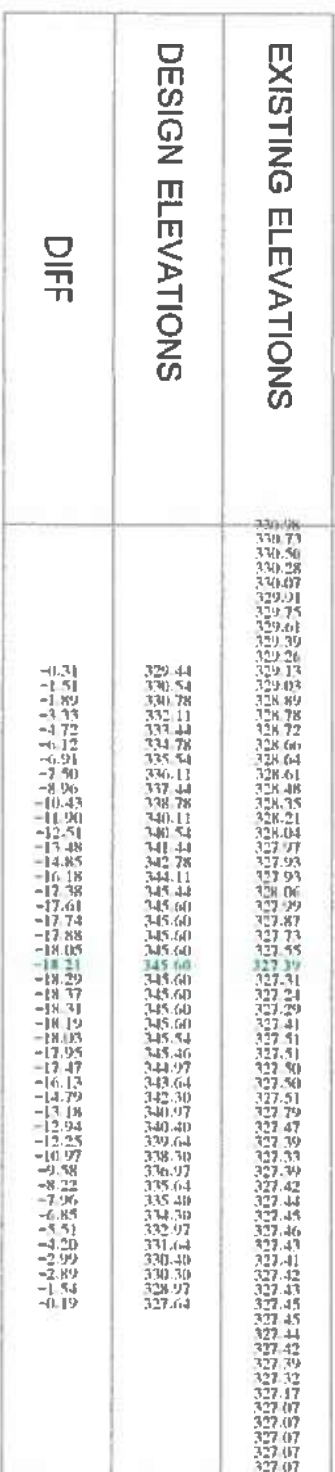
ELRAEID Consulting

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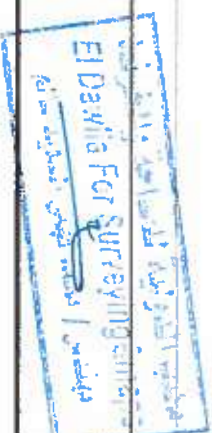
بسم الله الرحمن الرحيم

البراند
للإستشارات
القطر العربي السريع (٢٠ أكتوبر)
القطر الثالث - في سفوف من سفوف

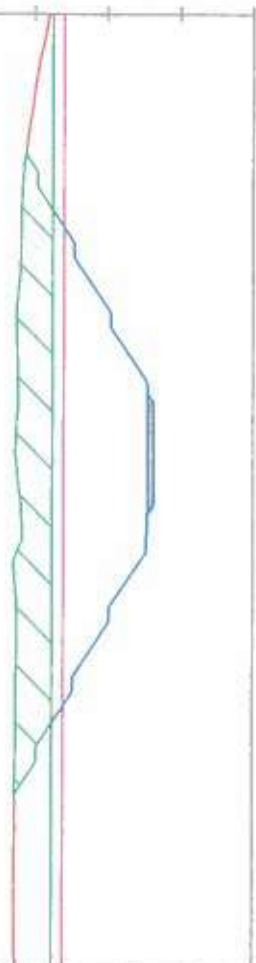
Growth of <i>W. al. Buxton</i> at 44-46°C		
Inoculum dilution	Average	Countable volume
Washed - (1)	1:500	400 µl 2.5



ELRAEID Consulting



444+980.00



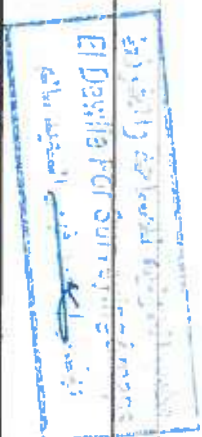
Inventory (1799) at Gordon 444-9118 996			
Identical Name	Age	Volume	Estimated Volume
Woods-Hall (11)	1944-45	1201 B2	1100 13

EXISTING ELEVATIONS	DESIGN ELEVATIONS	DIFF
332.03		
331.74		
330.83		
330.46		
330.12		
329.86		
329.56		
329.21		
328.96		
328.71		
328.54		
328.42		
328.30		
328.22		
328.21		
328.18		
328.06		
327.86		
327.67		
327.63		
327.68		
327.74		
327.79		
327.83		
327.81		
327.78		
327.65		
327.57		
327.50		
327.70		
327.70		
328.16		
328.31		
328.41		
328.33		
327.51		
327.34		
327.46		
327.70		
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327.69		
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327.60		
327.60		
327.56		
327.40		
327.45		
327.47		
327.49		
327.44		
327.39		
327.35		
327.33		
327.37		
327.35		
327.41		
327.37		
327.37		
327.47		
327.47		
	329.42	-0.71
	330.52	-1.98
	330.76	-3.34
	332.09	-3.79
	333.42	-5.20
	334.76	-6.54
	335.52	-7.32
	336.09	-7.91
	337.42	-7.36
	338.76	-10.89
	340.09	-13.42
	340.52	-12.90
	341.42	-13.74
	342.76	-15.40
	344.09	-16.29
	345.42	-17.60
	345.58	-17.77
	345.58	-17.81
	345.58	-17.93
	345.58	-18.02
	345.58	-18.18
	345.58	-17.89
	345.58	-17.69
	345.58	-17.42
	345.58	-17.27
	345.52	-17.11
	345.44	-17.11
	344.95	-17.44
	343.62	-16.28
	342.28	-14.82
	340.95	-13.24
	340.38	-12.69
	339.62	-11.93
	338.28	-10.59
	336.95	-9.29
	335.62	-7.97
	333.38	-7.77
	331.28	-6.68
	332.95	-5.34
	331.62	-7.02
	330.38	-2.78
	330.28	-3.73
	328.95	-1.45
	327.62	-0.17

ELGHAZY



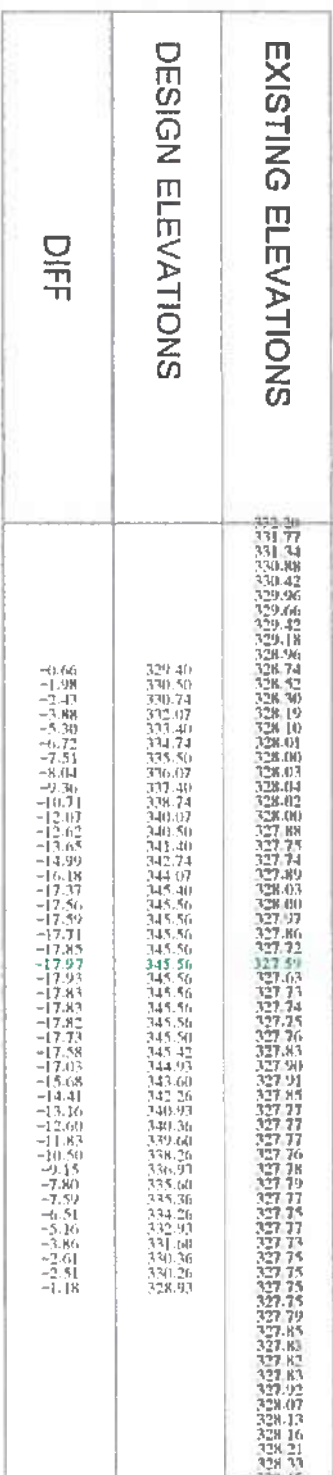
ELDAWLA:



ELRAEID Consulting



Material (T 8) as Station 401 (mg)		
Material Name	wt%	Volume
Material - (1)	200.12	14.21.40
		0.418.61



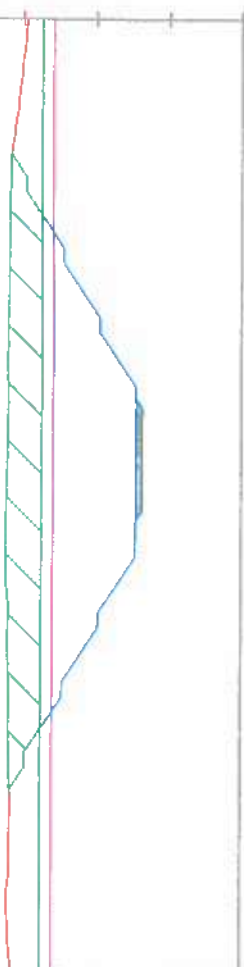
ELRAEID Consulting



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للإستشارات الهندسية
القطر الكهربائي السريع (٦٠ ألف فدان) أبو سويل
المنطقة المخطط من مخطط خريز

Receptorial (°F) at Stations 445 + 0.2 B O/P			
Receptorial Station	Aspen	Volcanoes	Cumulative at Volcanoes
Midpoint - (1)	55.5 %	72.2 %	71.7 %



EXISTING ELEVATIONS	DESIGN ELEVATIONS	DIFF
330.51		
330.31		
330.09		
329.86		
329.65		
329.45		
329.26		
328.94		
328.65		
328.43		
328.28	329.38	-1.10
328.22	330.48	-2.26
328.19	330.72	-2.53
328.16	332.05	-3.89
328.17	333.38	-5.21
328.19	334.72	-6.53
328.17	335.48	-7.31
328.14	336.05	-7.91
328.12	337.38	-9.26
328.14	338.72	-10.58
328.11	340.05	-11.94
328.07	340.48	-12.41
328.14	341.38	-13.23
328.04	342.72	-14.68
328.06	344.05	-15.99
328.06	345.38	-17.32
328.07	346.54	-17.47
328.07	346.54	-17.47
328.03	346.54	-17.59
327.96	346.54	-17.59
327.99	345.54	-17.64
327.85	345.54	-17.70
327.81	345.54	-17.73
327.78	345.54	-17.76
327.75	345.54	-17.79
327.72	345.48	-17.75
327.76	345.40	-17.64
327.77	344.91	-17.12
327.77	347.58	-15.80
327.91	342.24	-14.33
328.03	340.91	-12.88
328.62	340.34	-12.33
327.99	339.58	-11.58
327.99	338.24	-10.26
328.03	336.91	-8.88
328.06	335.58	-7.52
328.07	335.34	-7.28
328.07	334.24	-6.18
328.08	332.91	-4.83
328.17	331.58	-3.41
328.25	330.34	-2.09
328.30	330.24	-1.94
328.46	328.91	-0.55
328.38		
328.37		
328.38		
328.37		
328.35		
328.26		
328.08		
328.01		
328.05		
328.15		
328.24		
328.53		

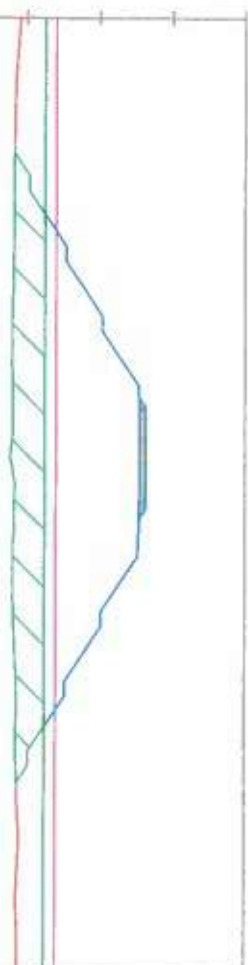
ELDAWLA :

EL RAIED Consulting

Electro for Air Conditioning

الدراسة
للإستشارات
المطبخ العربي
تقنيات الشبكات - لبر

445+040.00



Material (Tm) at 800°C, 141.19 (3) Å		
Material Name	Size	Crystallite Volume
Water mol. (4)	3.9 Å	79.9 Å

EXISTING ELEVATIONS	DESIGN ELEVATIONS	DIFF
329.43		
328.96		
328.83		
328.65		
328.52		
328.45		
328.38		
328.33		
328.31		
328.29		
328.29	329.36	-1.07
328.29	330.46	-2.17
328.30	330.70	-2.40
328.31	332.03	-3.72
328.32	333.36	-5.05
328.31	334.70	-6.39
328.26	335.46	-7.20
328.21	336.03	-7.82
328.19	337.36	-9.17
328.15	338.70	-10.55
328.11	340.03	-11.92
328.07	340.46	-12.39
328.04	341.36	-13.33
328.06	342.70	-14.64
328.10	344.03	-15.93
328.11	345.36	-17.25
328.17	345.52	-17.36
328.21	345.52	-17.31
328.23	345.52	-17.31
328.03	345.52	-17.49
327.84	345.52	-17.68
328.19	345.52	-17.34
328.44	345.52	-17.09
328.38	345.52	-17.14
328.31	345.52	-17.22
328.29	345.46	-17.17
328.17	345.38	-17.20
328.17	344.89	-16.72
328.18	343.56	-15.38
328.20	342.22	-14.02
328.23	340.89	-12.66
328.30	340.32	-12.42
328.37	339.56	-11.19
328.43	338.23	-9.79
328.55	336.89	-8.34
328.72	335.56	-6.84
328.78	335.32	-6.62
328.68	334.23	-5.54
328.66	332.89	-4.23
328.65	331.56	-2.90
328.69	330.32	-1.64
328.73	330.23	-1.49
328.75	328.89	-0.14
328.76		
328.88		
329.01		
329.02		
329.94		
328.85		
328.76		
328.70		
328.76		
328.83		
328.86		
328.84		

உயிர் கொடுத்தான்

Eligible For Surrogate

1

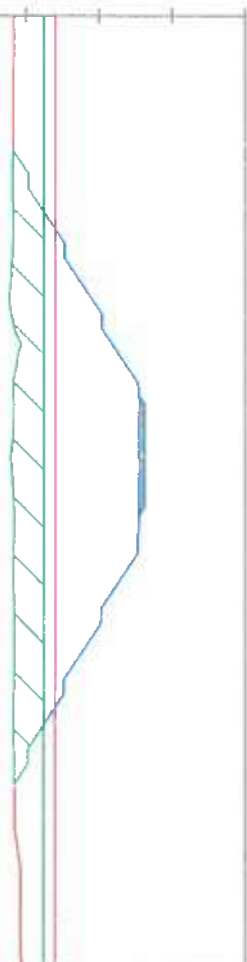
المدرسة
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الاسم:
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ELDAWILA:

ELRAEID Consulting

445+060.00



Molecular Weight and Distribution Data			
Weighted Average	Armo	Volume	Concentration-Volume
Molecular Weight = 101	214.18	0.132.20	124.57.5.9

EXISTING ELEVATIONS	DESIGN ELEVATIONS	DIFF
328.42		
328.40		
328.43		
328.42		
328.35		
328.31		
328.33		
328.35		
328.36		
328.33		
328.28	329.34	-1.06
328.25	330.44	-2.20
328.31	330.68	-2.37
328.36	332.01	-3.65
328.38	333.34	-4.96
328.39	334.68	-6.29
328.29	335.44	-7.16
328.16	336.01	-7.85
328.04	337.34	-9.30
327.89	338.68	-10.78
328.00	340.01	-12.01
328.41	340.44	-12.04
329.04	341.34	-12.30
329.10	342.68	-13.57
328.78	343.01	-15.23
328.39	345.34	-16.95
328.43	345.50	-17.07
328.46	345.50	-17.04
328.42	345.50	-17.08
328.27	345.50	-17.23
328.04	345.50	-17.47
328.17	345.50	-17.33
328.32	345.50	-17.18
328.43	345.50	-17.07
328.41	345.50	-16.99
328.42	345.44	-16.91
328.48	345.36	-16.88
328.44	344.87	-16.43
328.39	343.54	-15.14
328.44	342.20	-13.76
328.52	340.87	-12.65
328.54	340.30	-11.76
328.57	339.54	-10.97
328.58	338.20	-9.62
328.52	336.87	-8.35
328.47	335.54	-7.80
328.46	335.30	-6.85
328.51	334.20	-5.77
328.41	332.87	-4.46
328.40	331.54	-3.14
328.49	330.30	-1.81
328.52	330.20	-1.68
328.49	328.87	-0.38
328.49		
328.47		
328.47		
328.70		
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329.24		
329.59		
329.27		
329.26		
329.27		
329.34		
329.38		

ELDAWLIA

ELRAEID Consulting :

1. What is the main purpose of the document?
 2. What are the key findings of the study?
 3. What are the implications of the findings?
 4. What are the limitations of the study?
 5. What are the conclusions of the study?

القطر العربي والصومالي
للإستشارات الهندسية
القطر العربي والصومالي
للإستشارات الهندسية

445+080.00

EXISTING ELEVATIONS	328.46	328.48	328.53	328.58	328.61	328.60	328.60	328.60	328.60	328.61	328.60	328.60	328.60	328.60	328.61	328.60	328.60	328.60	328.60	328.61	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.60	328.6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Station 445+080.00			
Station	445+080.00	445+080.00	445+080.00
Station	445+080.00	445+080.00	445+080.00
Station	445+080.00	445+080.00	445+080.00



ELGHAZY :

ELDAWILA :

EL Dawila For Surveying & mens
El Dawila For Surveying & mens
El Dawila For Surveying & mens

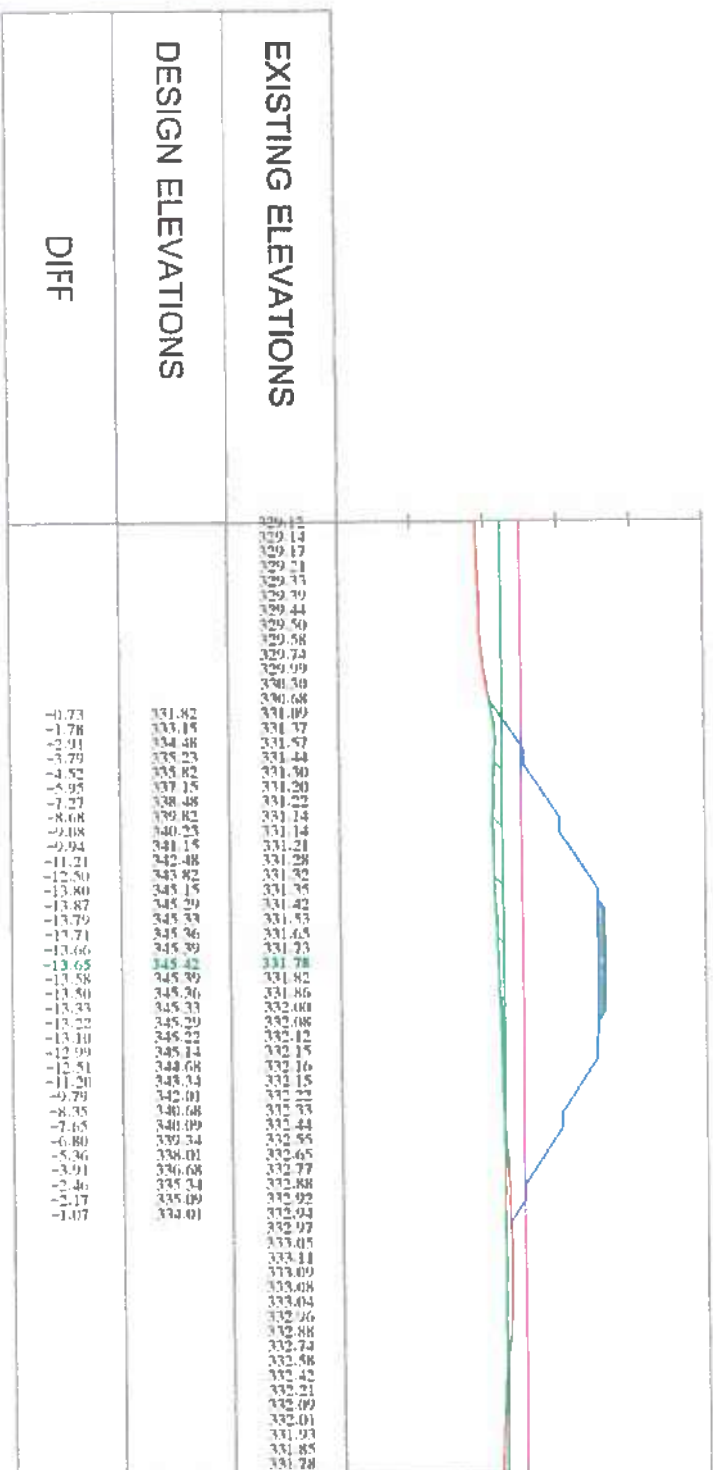
ELRAEID Consulting :



ELRAEID Consulting :



445+140.00

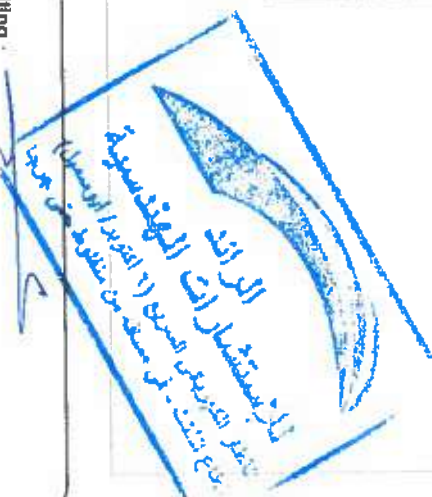


Station	Section	Station	Section
444+770	445+800	444+770	445+800

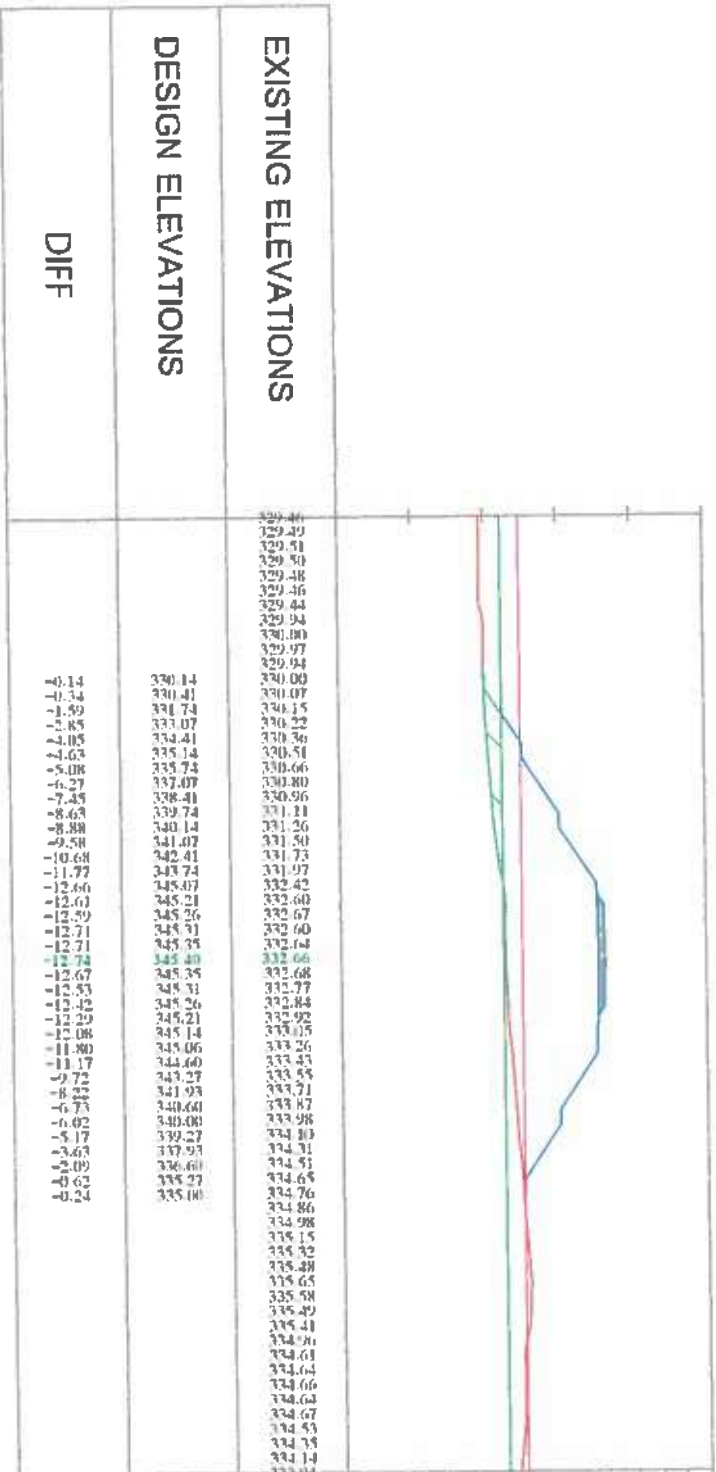
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ELDAWILA :

ELRAEID Consulting :



445+160.00

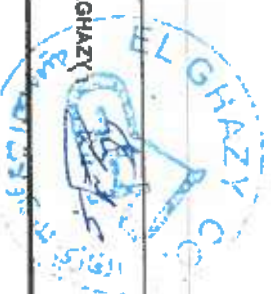


Stationed at Station 445+ 800			
Stationed at Station 445+ 800	14.91	14.91	14.91
Stationed at Station 445+ 800	14.91	14.91	14.91
Stationed at Station 445+ 800	14.91	14.91	14.91

ELGHAZY

ELDAWLA

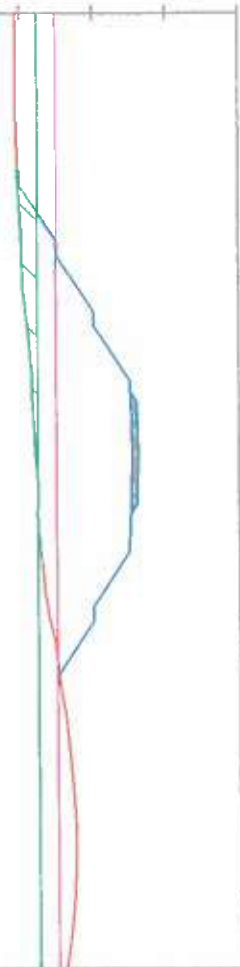
ELRAEID Consulting



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الهيئة العامة للغازات
General Gas Authority
For Surveying & Maps
For Surveying & Maps
For Surveying & Maps
For Surveying & Maps

445+180.00



Material (P7) at Revision 1.00 (100.00)			
Material Name	Artid	Volume	Component Volume
Material 111	45 00	0.00 20	0.00 0.00

EXISTING ELEVATIONS	DESIGN ELEVATIONS	DIFF
329.62		
329.51		
329.54		
329.81		
329.81		
329.51		
329.54		
329.56		
329.60		
329.66		
329.70		
329.75	330.05	-0.30
329.88	330.33	-0.45
329.97	331.67	-1.69
330.07	335.00	-2.93
330.17	334.33	-4.16
330.24	335.05	-4.81
330.31	335.67	-5.35
330.38	337.00	-6.62
330.46	336.33	-7.87
330.71	339.67	-8.96
330.96	340.05	-9.10
331.16	341.00	-9.84
331.33	342.33	-11.00
331.50	343.67	-12.17
331.69	345.00	-13.30
331.63	345.13	-13.50
331.73	345.19	-13.46
331.88	345.25	-13.38
331.98	345.32	-13.33
332.08	345.38	-13.30
332.25	345.52	-13.07
332.47	345.25	-12.79
332.50	345.19	-12.69
332.35	345.13	-12.77
332.40	345.05	-12.65
332.50	344.97	-12.34
332.59	344.53	-13.74
333.06	343.19	-10.14
333.23	341.86	-8.63
333.48	340.53	-7.04
333.79	339.21	-6.12
334.24	339.19	-5.05
334.68	337.86	-3.18
334.88	336.53	-1.65
335.12	335.19	-0.07
335.41		
335.75		
336.07		
336.29		
336.49		
336.67		
336.85		
337.02		
337.15		
337.29		
337.31		
337.32		
337.29		
337.21		
337.12		
336.94		
336.77		
336.57		
336.26		
335.94		

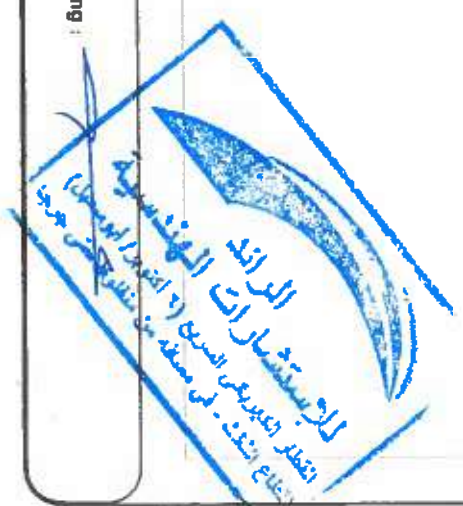
ELGHAZY



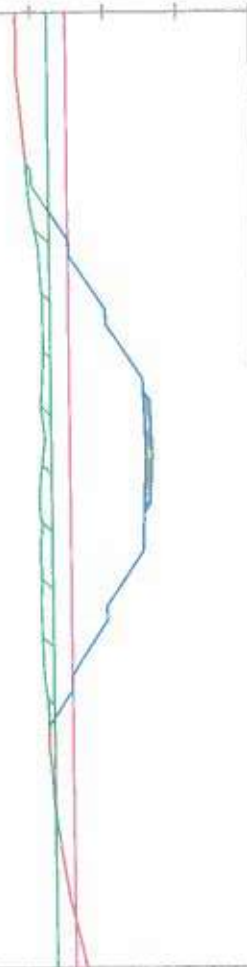
ELDAWLA:

can easily understand that it is
 a difficulty for carrying in maps
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 of the same kind in the

ELRAEID Consulting



445+220.00



EXISTING ELEVATIONS	DESIGN ELEVATIONS	DIFF
338.11	339.95	1.84
338.07	339.24	1.17
338.05	338.57	0.52
338.04	337.90	-0.14
338.03	337.24	-0.79
338.12	336.57	-1.55
338.43	335.90	-2.53
338.62	335.24	-3.38
338.81	334.57	-4.24
339.01	333.90	-5.11
339.20	333.24	-5.96
339.38	332.57	-6.81
339.54	331.90	-7.64
339.71	331.24	-8.47
340.05	330.57	-9.48
340.47	329.90	-10.57
340.85	329.24	-11.61
340.99	328.57	-12.42
341.08	327.90	-13.18
341.25	327.24	-14.01
341.32	326.57	-14.75
341.33	325.90	-15.43
341.35	325.24	-16.11
341.37	324.57	-16.80
341.38	323.90	-17.48
341.35	323.24	-18.11
341.25	322.57	-18.68
341.04	321.90	-19.14
341.40	321.24	-19.16
341.49	320.57	-18.92
341.32	319.90	-18.42
341.07	319.24	-17.83
340.86	318.57	-17.29
340.74	317.90	-16.84
340.76	317.24	-16.52
341.02	316.57	-16.45
340.82	315.90	-16.92
340.79	315.24	-17.55
340.85	314.57	-18.28
340.77	313.90	-19.87
340.80	313.24	-20.56
340.85	312.57	-21.28
340.91	311.90	-22.01
340.99	311.24	-22.75
341.07	310.57	-23.50
341.30	309.90	-24.40
341.52	309.24	-25.28
341.63	308.57	-26.06
341.59	307.90	-26.69
341.61	307.24	-27.37
341.81	306.57	-28.24
341.96	305.90	-29.06
342.09	305.24	-29.85
342.29	304.57	-30.72
342.53	303.90	-31.63
342.81	303.24	-32.57
343.10	302.57	-33.53
343.42	301.90	-34.52
343.76	301.24	-35.52
344.11	300.57	-36.54
344.56	299.90	-37.66
345.03	299.24	-38.79
345.52	298.57	-39.95
346.00	297.90	-41.10
346.45	297.24	-42.21

Stationed (Piling at Station 445+120 m)	Stationed Name	Width	Volume	Excavation & Volume
Station 445+120	Station 445+120	3m	3m	3m



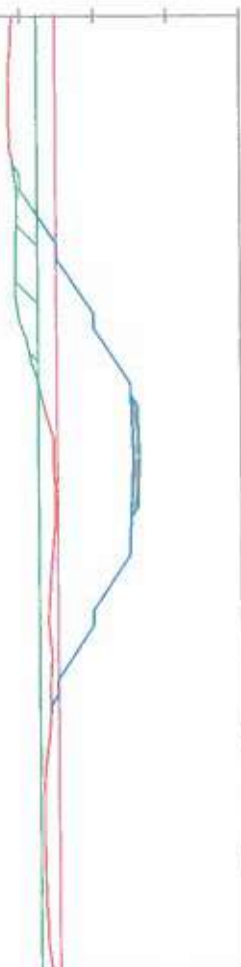
ELGHAZY

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ELRAEID Consulting



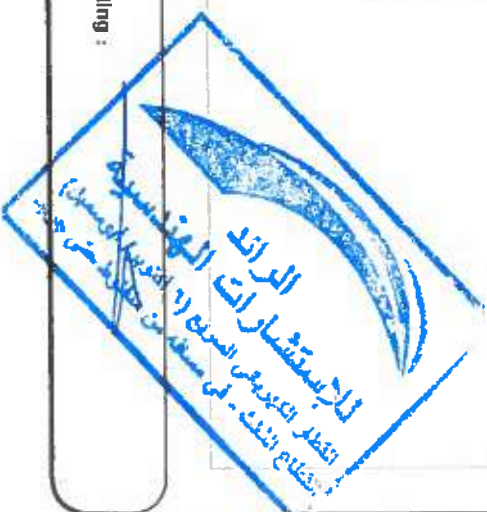
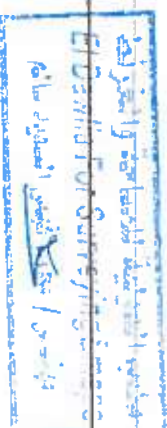
445+260.00



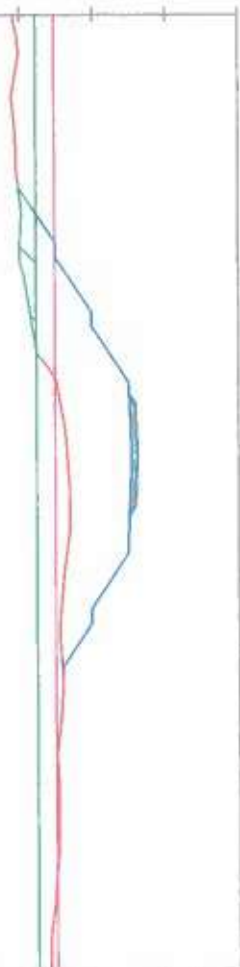
Material (kg) at Section 4.51 x 2.10 m			
Reinforced concrete	4.400	Volume	Compressive Volume
Mean (m) = (1)	58.76	(75.2) 1 m	8.000 m³ 4.5

EXISTING ELEVATIONS	DESIGN ELEVATIONS	DIFF
328.96		
328.83		
328.70		
328.53		
328.43		
328.38		
328.37		
328.41		
328.49		
328.57		
328.94		
329.25	329.91	-0.65
329.57	330.20	-0.63
329.47	331.53	-2.06
329.47	332.86	-3.39
329.43	334.28	-4.77
329.39	334.91	-5.52
329.34	335.53	-6.19
329.30	336.86	-7.56
329.27	338.20	-8.92
329.88	339.53	-9.65
330.01	339.91	-9.90
330.75	340.86	-10.11
331.19	342.20	-11.01
331.72	343.43	-11.81
332.32	344.86	-12.55
332.77	344.98	-12.21
333.27	345.06	-11.80
333.87	345.14	-11.27
334.39	345.22	-10.84
334.38	345.30	-10.92
334.38	345.22	-10.85
334.38	345.14	-10.64
334.53	345.06	-10.53
334.97	344.98	-10.42
334.44	344.90	-10.46
334.25	344.82	-10.47
334.06	344.39	-10.33
333.89	344.06	-9.17
333.77	341.72	-7.95
333.66	340.99	-6.73
333.54	339.77	-6.22
333.66	339.06	-5.39
333.85	337.72	-3.87
333.92	336.39	-2.47
333.80	335.06	-1.26
333.72	334.77	-1.04
333.79		
333.68		
333.53		
333.29		
333.06		
332.89		
332.85		
332.83		
332.83		
332.82		
332.87		
332.91		
332.91		
332.93		
333.09		
333.22		
333.29		
333.52		

ELRAEID Consulting :



Measuring (T _{mg} and Deviation) at 2000 Hz		
Measured Value	4.104	Calculated Value
Measured - (10)	29.50	421.14



EXISTING ELEVATIONS	DESIGN ELEVATIONS	DIFF
329.18		
329.51		
329.81		
329.85		
329.51		
329.18		
329.02		
329.77		
329.42		
329.44		
329.54		
329.70		
329.95		
330.20		
330.25		
330.14		
330.04		
330.14		
330.70		
331.03		
331.36		
331.70		
332.03		
332.37		
333.75		
334.98		
335.33		
335.69		
336.05		
336.29		
336.42		
336.55		
336.68		
336.73		
336.73		
336.76		
336.52		
336.25		
335.98		
335.78		
335.61		
335.43		
335.30		
335.48		
335.40		
335.25		
335.71		
335.58		
335.43		
335.22		
334.98		
334.96		
335.08		
335.12		
335.08		
335.04		
335.01		
334.87		
334.72		
334.61		
334.40		
334.14		
333.97		
333.93		
	330.18	+0.22
	331.51	+1.31
	332.84	+2.99
	334.18	+4.03
	334.89	+5.37
	335.51	+6.33
	336.84	+7.15
	338.18	+8.14
	339.51	+8.19
	339.89	+8.81
	340.84	+9.81
	342.18	+9.76
	343.51	+9.86
	344.84	+9.63
	346.96	+9.35
	348.04	+9.08
	348.12	+8.92
	348.20	+8.87
	348.28	+8.65
	348.29	+8.44
	348.04	+8.31
	344.96	+8.24
	344.88	+8.18
	344.80	+8.29
	344.37	+8.12
	343.04	+7.06
	341.70	+5.93
	340.37	+4.76
	339.75	+4.31
	339.04	+3.73
	337.70	+2.25
	336.37	+0.77

ELRAEID Consulting :



Guidelines for Surge/Influenza

المركز
للإستشارات
الطعام والكهروميكانيكية
النفط والفحم - في مسقط من مملكة
عمان

445+300.00

EXISTING ELEVATIONS	329.82 330.15 330.47 330.68 330.83 330.72 330.28 329.89 329.68 329.79 329.89 329.96 329.79 329.58 329.69 330.08 329.83 329.28 328.77 328.78 328.87 329.27 329.69 330.12 330.85 331.03 331.59 332.60 333.45 334.18 334.95 335.72 336.50 337.02 337.00 336.96 336.90 336.80 336.74 336.70 336.80 336.80 336.94 337.06 337.17 337.28 337.26 337.27 337.23 337.20 337.09 336.95 336.80 336.51 336.23 335.93 335.63 335.26 334.77 334.29 334.16 334.03 333.88 333.88 333.67	
DESIGN ELEVATIONS	330.16 331.49 332.82 334.16 334.87 335.49 336.82 338.16 339.49 339.87 340.82 342.16 343.49 344.82 344.94 345.02 345.10 345.18 345.26 345.18 345.10 345.02 344.94 344.86 344.78 344.35 343.02 341.68 340.35 339.73 339.02 337.68	
DIFF	-0.37 -1.91 -3.14 -4.08 -5.03 -6.21 -8.05 -9.38 -10.62 -10.59 -11.13 -12.04 -12.94 -13.79 -13.35 -12.42 -11.66 -11.00 -10.32 -9.46 -8.60 -8.00 -7.94 -7.90 -7.88 -7.55 -6.27 -4.91 -3.56 -2.93 -2.21 -0.74	

445+320.00

EXISTING ELEVATIONS	331.47 332.80 334.14 334.85 335.47 336.80 338.14 339.47 339.85 340.80 342.14 343.47 344.80 346.92 348.00 349.08 349.60 349.69 349.75 349.86 350.15 350.24 350.32 350.70 350.95 351.18 351.38 351.59 351.77 350.60 350.03 352.75 352.97 353.15 353.33 353.80 354.00 354.20 354.60 354.69 354.77 354.83 354.94 354.80 354.66 354.62 354.07 354.55 354.92 355.36 355.57 355.80 356.01 356.15 356.22 356.29 356.00 355.80 355.51 355.23 354.92 354.60 354.12 353.56 353.32 353.20 353.15 353.11 353.13 353.25 353.38 353.51 353.63 353.73
DESIGN ELEVATIONS	331.47 332.80 334.14 334.85 335.47 336.80 338.14 339.47 339.85 340.80 342.14 343.47 344.80 346.92 348.00 349.08 349.60 349.69 349.75 349.86 350.15 350.24 350.32 350.70 350.95 351.18 351.38 351.59 351.77 350.60 350.03 352.75 352.97 353.15 353.33 353.80 354.00 354.20 354.60 354.69 354.77 354.83 354.94 354.80 354.66 354.62 354.07 354.55 354.92 355.36 355.57 355.80 356.01 356.15 356.22 356.29 356.00 355.80 355.51 355.23 354.92 354.60 354.12 353.56 353.32 353.20 353.15 353.11 353.13 353.25 353.38 353.51 353.63 353.73
DIFF	-0.76 -1.86 -2.96 -3.47 -4.18 -5.64 -7.54 -9.44 -10.09 -10.83 -11.14 -11.41 -12.80 -12.80 -2.18 -11.15 -10.99 -10.98 -10.97 -10.98 -11.04 -11.10 -10.71 -8.92 -11.11 -7.51 -7.54 -4.43 -1.87 -0.32

Station	444	445	446
Station	444	445	446
Station	444	445	446
Station	444	445	446

ELGHAZY

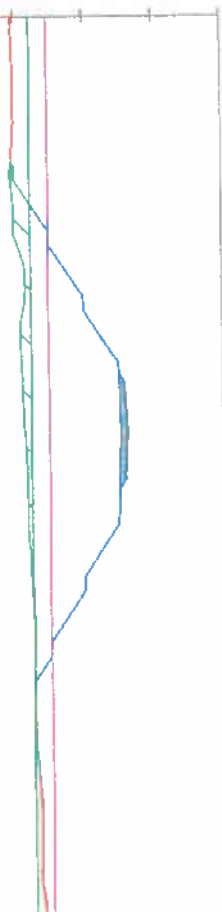
ELDAWILA

EL Dawila For Surveying & Maps
مصر الجديده

ELRAEID Consulting

الهيئة العامة للغازات
EGAS
مصر الجديده

445+340.00



Measured 17 Aug at Station 425 = 1 day old		
Depth (m) Depth	4.790	Conductivity (µmhos/cm)
Measured - (1)	3.6413	11.99811

EXISTING ELEVATIONS		DESIGN ELEVATIONS		DIFF	
129.61					
129.65					
129.71					
129.77					
129.81					
129.89					
129.89					
129.78					
129.76					
129.65					
129.56					
129.47					
129.41					
129.66					
129.80					
129.81					
130.01					
130.67					
131.24					
131.41					
131.46					
131.16					
130.86					
130.75					
130.80					
130.85					
130.00					
130.95					
131.02					
131.13					
131.25					
131.35					
131.43					
131.51					
131.69					
131.64					
131.63					
131.65					
131.74					
131.94					
132.02					
132.10					
132.19					
132.31					
132.43					
132.42					
132.51					
132.57					
132.54					
132.26					
132.33					
132.42					
132.61					
132.69					
132.85					
132.99					
133.13					
133.11					
133.08					
133.05					
132.94					
133.22					
133.48					

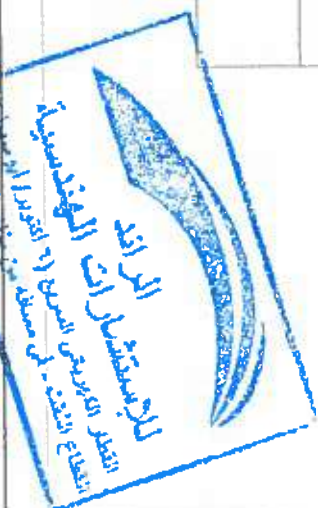
ELGHAZY



ELDAWLIA

→ Stress

ELRAEID Consulting





OCTOBER ASWAN ELECTRIC EXPRESS TRAIN (HIGH SPEED RAIL) SECTION THREE (Manifout – Gerga)
Al-Ghazi Contracting Company Section From Station 444+770 To 445+800



445+360.00

Manifout / El Gerga Section 444+770 to 445+800			
Station	Station	Station	Station
444+770	444+770	444+770	444+770

EXISTING ELEVATIONS	329.66 329.65 329.71 329.77 329.83 329.92 330.12 330.32 330.52 330.66 330.67 330.72 330.84 330.94 331.05 331.19 331.23 331.28 331.33 331.37 331.44 331.52 331.57 331.58 331.59 331.67 331.76 331.88 331.93 332.06 332.18 332.30 332.42 332.55 332.65 332.74 332.78 332.82 332.86 332.89 332.92 332.98 333.08 333.18 333.20 333.39 333.48 333.53 333.63 333.74 333.85
DESIGN ELEVATIONS	329.81 330.10 331.43 332.76 334.10 334.81 335.43 336.76 338.10 339.43 339.81 340.76 342.10 343.43 344.76 344.88 344.96 345.04 345.12 345.20 345.12 345.04 344.96 344.88 344.80 344.72 344.29 342.96 341.62 340.29 339.67 339.36 337.62 336.29 334.96 334.67 333.62
DIFF	+0.14 +0.44 +1.72 +1.00 +4.27 +4.89 +5.33 +9.44 +7.58 +8.77 +9.14 +0.04 +1.33 +12.59 +13.83 +14.47 +13.81 +13.85 +13.80 +13.92 +13.80 +13.68 +13.52 +13.36 +13.23 +13.15 +12.71 +11.37 +9.96 +8.53 +7.78 +7.02 +4.11 +2.46 +2.42 +1.08



ELGHAZY :

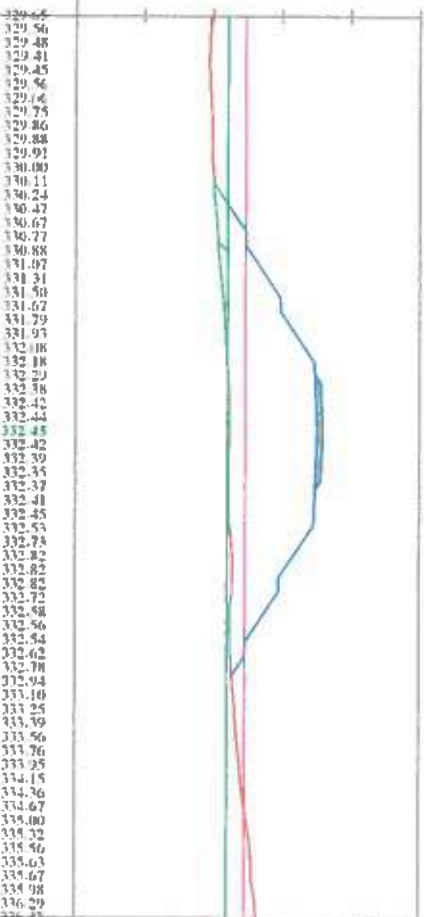
ELDAWILA :

El Devila For Surveying & Maps

EL-RAIED Consulting :



445+380.00



Estimated P/E on Earnings \$45.10 per share		
Industrial Average	14.00	Company's Value
Steel (10)	22.00	11.40 x 10

EXISTING ELEVATIONS	DESIGN ELEVATIONS	DIFF
129.46		
129.56		
129.41		
129.45		
129.46		
129.46		
129.86		
129.88		
129.91		
130.00		
130.11		
130.24	331.42	-1.17
130.47	332.74	-2.27
130.67	334.08	-3.41
130.77	334.79	-4.01
130.88	335.41	-4.53
131.07	336.24	-5.17
131.31	338.08	-6.76
131.50	339.41	-7.91
131.67	339.79	-8.11
131.79	340.74	-8.95
131.95	342.08	-10.13
132.08	343.41	-11.33
132.18	344.74	-12.56
132.29	345.86	-13.58
132.38	344.94	-12.56
132.42	345.02	-12.60
132.44	345.10	-12.66
132.45	345.18	-12.73
132.42	345.10	-12.69
132.39	345.02	-12.64
132.35	344.94	-12.59
132.37	344.86	-12.49
132.41	344.78	-12.37
132.45	344.70	-12.25
132.53	344.27	-11.73
132.73	342.94	-10.21
132.82	341.60	-8.79
132.82	340.27	-7.45
132.82	339.65	-6.82
132.77	338.94	-6.21
132.68	337.60	-5.02
132.56	336.27	-3.71
132.54	334.94	-2.39
132.62	334.65	-2.03
132.78	333.60	-0.82
132.94		
133.10		
133.25		
133.39		
133.56		
133.76		
133.25		
134.15		
134.76		
134.67		
134.80		
134.32		
135.46		
135.63		
135.67		
134.98		
136.29		

ELGHAZY

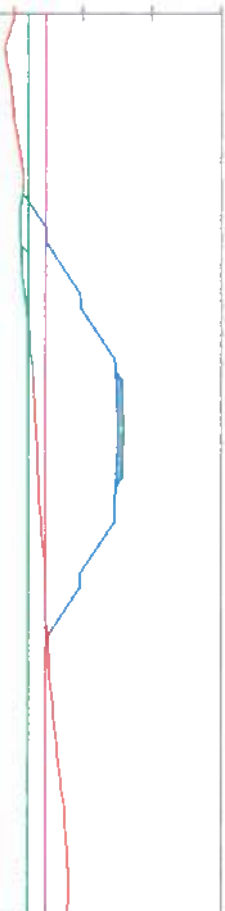
ELDAWILIA:

ELRAEID Consulting :

Ends For Surfering&men

[illegible]

445+400.00



Molecular Weight of Butadiene- <i>g</i> -Styrene			
Molecular Weight	Large	Very Large	Commercial Polymer
Molecular Weight	14,417	218,24	115,781.72

EXISTING ELEVATIONS	DESIGN ELEVATIONS	DIFF
329.60		
329.00		
328.86		
329.19		
329.56		
329.76		
329.95		
330.21		
330.57		
330.93		
331.28		
331.48		
331.37	331.39	-0.02
331.07	332.32	-1.66
331.01	334.06	-3.05
331.04	334.37	-3.72
331.13	335.39	-4.26
331.21	336.32	-5.52
331.57	338.06	-6.69
331.62	339.39	-7.77
331.85	339.77	-7.91
332.08	340.72	-8.65
332.24	342.06	-9.81
332.41	343.39	-10.98
332.57	344.72	-12.16
332.69	344.84	-12.16
332.91	344.92	-12.01
333.05	345.00	-11.96
333.08	345.08	-12.00
333.19	345.16	-11.97
333.30	345.08	-11.78
333.42	345.08	-11.59
333.54	344.92	-11.38
333.61	344.84	-11.23
333.63	344.76	-11.11
333.79	344.68	-10.89
333.98	344.25	-10.27
334.16	342.92	-8.75
334.35	341.58	-7.23
334.45	340.24	-5.80
334.51	339.67	-5.12
334.56	338.92	-4.76
334.68	337.58	-2.93
334.74	336.25	-1.51
334.96		
335.05		
335.11		
335.27		
335.48		
335.70		
335.89		
336.09		
336.30		
336.41		
336.74		
337.02		
337.29		
337.47		
337.63		
337.75		
337.83		
337.92		
338.00		
337.93		

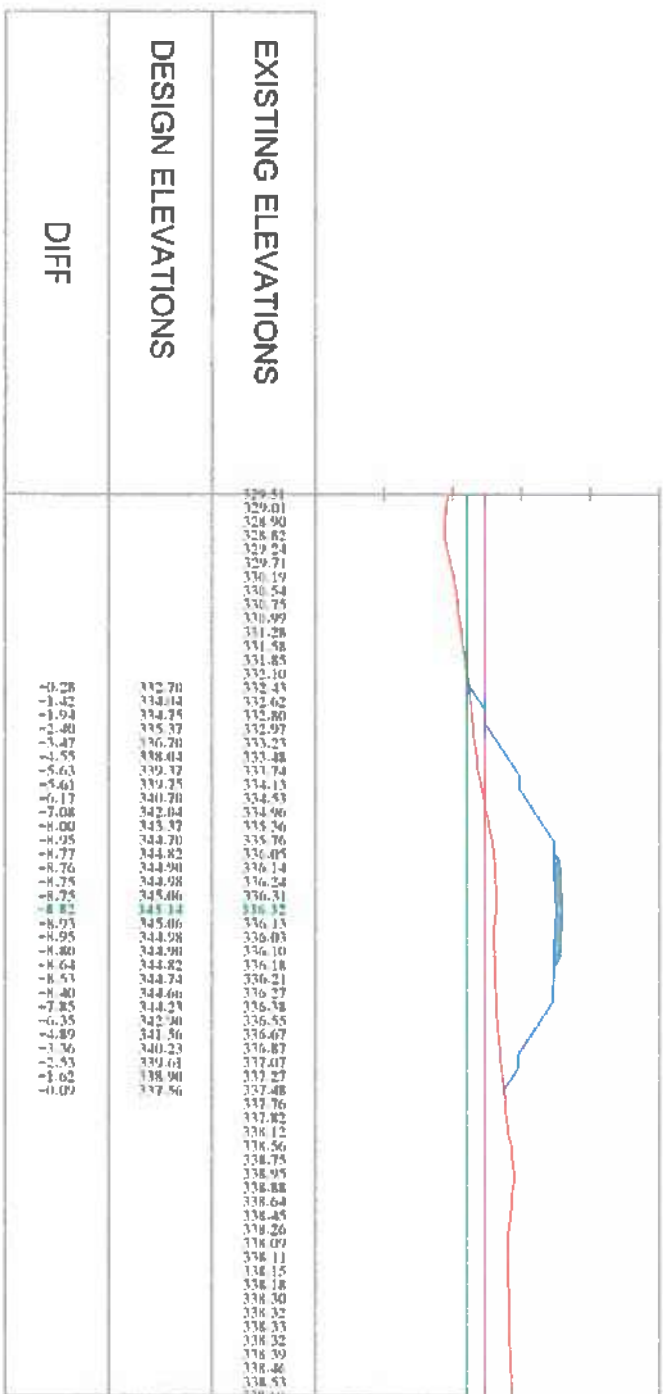


El Dabha For Surveying Maps

ELRAEID Consulting

[illegible]

445+420.00



Station	Area	Volume	Quantity
444+770	1.00	1.00	1.00

ELGHAZY

ELDAWIA

ELRAEID Consulting



El Dawia for Surveying Maps





OCTOBER ASWAN ELECTRIC EXPRESS TRAIN (HIGH SPEED RAIL) SECTION THREE (Manfout - Gerga)
Al-Ghazi Contracting Company Section From Station 444+770 To 445+800



445+440.00

EXISTING ELEVATIONS	329.94	329.62	329.71	329.89	330.10	330.45	330.89	331.32	331.40	331.49	331.56	331.61	331.67	331.78	331.94	332.10	332.31	332.63	333.02	333.50	333.99	334.40	334.73	335.06	335.39	335.70	336.01	336.30	336.59	336.88	337.04	337.08	337.12	337.14	337.15	337.16	337.17	337.18	337.19	337.20	337.21	337.22	337.23	337.24	337.25	337.26	337.27	337.28	337.29	337.30	337.31	337.32	337.33	337.34	337.35	337.36	337.37	337.38	337.39	337.40	337.41	337.42	337.43	337.44	337.45	337.46	337.47	337.48	337.49	337.50	337.51	337.52	337.53	337.54	337.55	337.56	337.57	337.58	337.59	337.60	337.61	337.62	337.63	337.64	337.65	337.66	337.67	337.68	337.69	337.70	337.71	337.72	337.73	337.74	337.75	337.76	337.77	337.78	337.79	337.80	337.81	337.82	337.83	337.84	337.85	337.86	337.87	337.88	337.89	337.90	337.91	337.92	337.93	337.94	337.95	337.96	337.97	337.98	337.99	338.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
	332.68	332.82	333.02	333.35	333.68	334.02	334.35	334.68	334.80	334.88	334.96	335.04	335.12	335.04	335.06	335.09	335.12	335.14	335.16	335.18	335.20	335.22	335.24	335.26	335.28	335.30	335.32	335.34	335.36	335.38	335.40	335.42	335.44	335.46	335.48	335.50	335.52	335.54	335.56	335.58	335.60	335.62	335.64	335.66	335.68	335.70	335.72	335.74	335.76	335.78	335.80	335.82	335.84	335.86	335.88	335.90	335.92	335.94	335.96	335.98	336.00	336.02	336.04	336.06	336.08	336.10	336.12	336.14	336.16	336.18	336.20	336.22	336.24	336.26	336.28	336.30	336.32	336.34	336.36	336.38	336.40	336.42	336.44	336.46	336.48	336.50	336.52	336.54	336.56	336.58	336.60	336.62	336.64	336.66	336.68	336.70	336.72	336.74	336.76	336.78	336.80	336.82	336.84	336.86	336.88	336.90	336.92	336.94	336.96	336.98	337.00	337.02	337.04	337.06	337.08	337.10	337.12	337.14	337.16	337.18	337.20	337.22	337.24	337.26	337.28	337.30	337.32	337.34	337.36	337.38	337.40	337.42	337.44	337.46	337.48	337.50	337.52	337.54	337.56	337.58	337.60	337.62	337.64	337.66	337.68	337.70	337.72	337.74	337.76	337.78	337.80	337.82	337.84	337.86	337.88	337.90	337.92	337.94	337.96	337.98	338.00																																																																																																																																																																																																																																																																																																																																																																																																																																																												
DESIGN ELEVATIONS	332.68	332.82	333.02	333.35	333.68	334.02	334.35	334.68	334.80	334.88	334.96	335.04	335.12	335.04	335.06	335.09	335.12	335.14	335.16	335.18	335.20	335.22	335.24	335.26	335.28	335.30	335.32	335.34	335.36	335.38	335.40	335.42	335.44	335.46	335.48	335.50	335.52	335.54	335.56	335.58	335.60	335.62	335.64	335.66	335.68	335.70	335.72	335.74	335.76	335.78	335.80	335.82	335.84	335.86	335.88	335.90	335.92	335.94	335.96	335.98	336.00	336.02	336.04	336.06	336.08	336.10	336.12	336.14	336.16	336.18	336.20	336.22	336.24	336.26	336.28	336.30	336.32	336.34	336.36	336.38	336.40	336.42	336.44	336.46	336.48	336.50	336.52	336.54	336.56	336.58	336.60	336.62	336.64	336.66	336.68	336.70	336.72	336.74	336.76	336.78	336.80	336.82	336.84	336.86	336.88	336.90	336.92	336.94	336.96	336.98	337.00	337.02	337.04	337.06	337.08	337.10	337.12	337.14	337.16	337.18	337.20	337.22	337.24	337.26	337.28	337.30	337.32	337.34	337.36	337.38	337.40	337.42	337.44	337.46	337.48	337.50	337.52	337.54	337.56	337.58	337.60	337.62	337.64	337.66	337.68	337.70	337.72	337.74	337.76	337.78	337.80	337.82	337.84	337.86	337.88	337.90	337.92	337.94	337.96	337.98	338.00																																																																																																																																																																																																																																																																																																																																																																																																																																																												
DIFF	-0.75	-1.92	-2.34	-2.70	-1.67	-4.52	-5.35	-5.12	-5.95	-6.36	-7.96	-8.99	-8.80	-8.58	-8.37	-8.16	-8.08	-7.84	-7.86	-7.93	-7.89	-7.91	-7.58	-7.29	-7.98	-5.66	-3.02	-2.21	-0.78																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																</

Stationed at	445+440.00
Stationed at	445+440.00
Stationed at	445+440.00
Stationed at	445+440.00

ELGHAZY

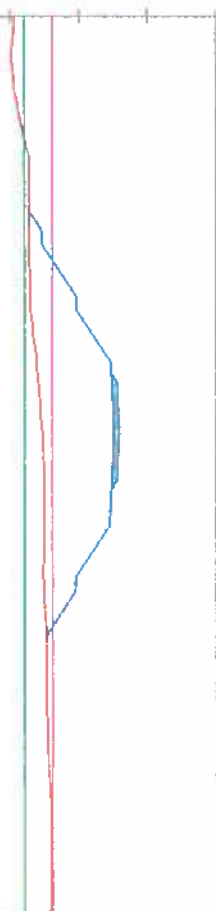
ELDAWILA

ELRAEID Consulting

El Dawila for Surveying Engineers

المرآة
للحفظ والتوثيق
المرآة للتوثيق
المرآة للتوثيق

445+460.00



Material (70% to 80% to 441 × 0.03 to 1)		
Material (70% to 80% to 441 × 0.03 to 1)	Area	Volume
Material (70% to 80% to 441 × 0.03 to 1)	4.0	11.54 5.6 4.3

DIFF	DESIGN ELEVATIONS	EXISTING ELEVATIONS
-1.22	334.00	338.69
-2.01	334.71	338.52
-2.55	335.33	338.35
-3.29	336.66	338.23
-5.09	338.00	337.99
-6.43	339.33	338.56
-6.82	339.71	338.92
-7.55	340.66	331.50
-8.63	342.00	331.67
-10.43	343.33	332.16
-10.79	344.66	332.59
-10.70	344.78	332.82
-10.64	344.94	332.79
-10.53	345.02	332.80
-10.43	345.10	332.79
-10.29	345.02	332.77
-10.15	344.94	332.70
-10.03	344.86	332.78
-9.97	344.78	332.87
-9.89	344.70	332.91
-9.81	344.62	332.90
-9.39	344.19	332.88
-8.08	342.86	333.11
-6.36	341.52	333.36
-5.49	340.19	333.62
-4.23	339.37	333.83
-3.86	338.86	333.99
-3.41	337.52	334.16
-1.00	336.19	334.30
		334.49
		334.67
		334.80
		334.88
		334.82
		334.81
		334.81
		334.80
		334.78
		334.76
		334.72
		334.73
		334.99
		335.05
		335.19
		335.23
		335.24
		335.21
		335.20
		335.19
		335.41
		335.48
		335.51
		335.49
		335.69
		335.79
		335.83
		335.84
		335.88
		335.89
		335.91
		335.95
		335.92
		335.82

ELGHAZY



ELDAWLIA

Ergebnis für die Variable

ELRAEID Consulting

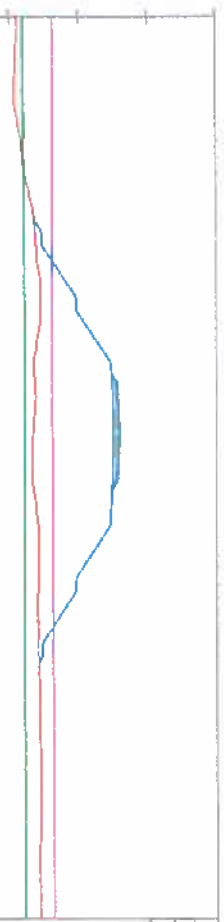
الملائكة
الذين يمشون على السحاب
الذين يمشون على السحاب



OCTOBER ASWAN ELECTRIC EXPRESS TRAIN (HIGH SPEED RAIL) SECTION THREE (Manflout - Gerga)
Al-Ghaz Contracting Company Section From Station 444+770 To 445+800



445+480.00



EXISTING ELEVATIONS	444+770 444.770 444+771 444.771 444+772 444.772 444+773 444.773 444+774 444.774 444+775 444.775 444+776 444.776 444+777 444.777 444+778 444.778 444+779 444.779 444+780 444.780 444+781 444.781 444+782 444.782 444+783 444.783 444+784 444.784 444+785 444.785 444+786 444.786 444+787 444.787 444+788 444.788 444+789 444.789 444+790 444.790 444+791 444.791 444+792 444.792 444+793 444.793 444+794 444.794 444+795 444.795 444+796 444.796 444+797 444.797 444+798 444.798 444+799 444.799 444+800 444.800
DESIGN ELEVATIONS	444+770 445.000 444+771 445.000 444+772 445.000 444+773 445.000 444+774 445.000 444+775 445.000 444+776 445.000 444+777 445.000 444+778 445.000 444+779 445.000 444+780 445.000 444+781 445.000 444+782 445.000 444+783 445.000 444+784 445.000 444+785 445.000 444+786 445.000 444+787 445.000 444+788 445.000 444+789 445.000 444+790 445.000 444+791 445.000 444+792 445.000 444+793 445.000 444+794 445.000 444+795 445.000 444+796 445.000 444+797 445.000 444+798 445.000 444+799 445.000 444+800 445.000
DIFF	444+770 445.000 444+771 445.000 444+772 445.000 444+773 445.000 444+774 445.000 444+775 445.000 444+776 445.000 444+777 445.000 444+778 445.000 444+779 445.000 444+780 445.000 444+781 445.000 444+782 445.000 444+783 445.000 444+784 445.000 444+785 445.000 444+786 445.000 444+787 445.000 444+788 445.000 444+789 445.000 444+790 445.000 444+791 445.000 444+792 445.000 444+793 445.000 444+794 445.000 444+795 445.000 444+796 445.000 444+797 445.000 444+798 445.000 444+799 445.000 444+800 445.000

Stationing	From	To	Section
444+770	444+770	444+800	Section Three



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El Dawila For Surveying & Maps

مكتب هندسة المساحة والخرائط



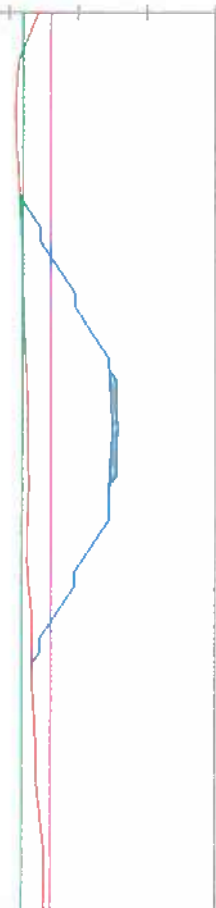


OCTOBER ASWAN ELECTRIC EXPRESS TRAIN (HIGH SPEED RAIL) SECTION THREE (Manfouf - Gerga)

Al-Ghazy Contracting Company Section From Station 444+770 To 445+800

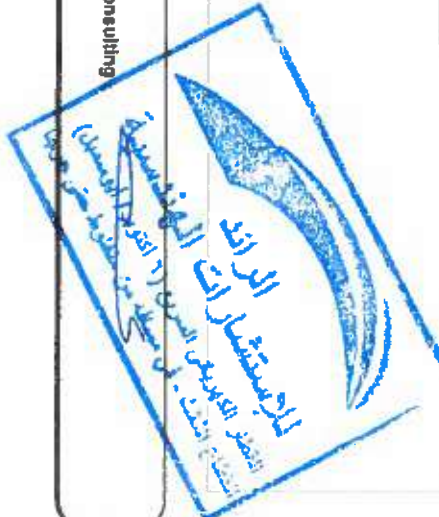


445+500.00



Stationing of the section (km)			
Stationing	From	To	Length
444+770	444+770	445+800	1030 m

EXISTING ELEVATIONS	DESIGN ELEVATIONS	DIFF
444.770	444.770	0.000
444.780	444.780	0.000
444.790	444.790	0.000
444.800	444.800	0.000
444.810	444.810	0.000
444.820	444.820	0.000
444.830	444.830	0.000
444.840	444.840	0.000
444.850	444.850	0.000
444.860	444.860	0.000
444.870	444.870	0.000
444.880	444.880	0.000
444.890	444.890	0.000
444.900	444.900	0.000
444.910	444.910	0.000
444.920	444.920	0.000
444.930	444.930	0.000
444.940	444.940	0.000
444.950	444.950	0.000
444.960	444.960	0.000
444.970	444.970	0.000
444.980	444.980	0.000
444.990	444.990	0.000
445.000	445.000	0.000
445.010	445.010	0.000
445.020	445.020	0.000
445.030	445.030	0.000
445.040	445.040	0.000
445.050	445.050	0.000
445.060	445.060	0.000
445.070	445.070	0.000
445.080	445.080	0.000
445.090	445.090	0.000
445.100	445.100	0.000
445.110	445.110	0.000
445.120	445.120	0.000
445.130	445.130	0.000
445.140	445.140	0.000
445.150	445.150	0.000
445.160	445.160	0.000
445.170	445.170	0.000
445.180	445.180	0.000
445.190	445.190	0.000
445.200	445.200	0.000
445.210	445.210	0.000
445.220	445.220	0.000
445.230	445.230	0.000
445.240	445.240	0.000
445.250	445.250	0.000
445.260	445.260	0.000
445.270	445.270	0.000
445.280	445.280	0.000
445.290	445.290	0.000
445.300	445.300	0.000
445.310	445.310	0.000
445.320	445.320	0.000
445.330	445.330	0.000
445.340	445.340	0.000
445.350	445.350	0.000
445.360	445.360	0.000
445.370	445.370	0.000
445.380	445.380	0.000
445.390	445.390	0.000
445.400	445.400	0.000
445.410	445.410	0.000
445.420	445.420	0.000
445.430	445.430	0.000
445.440	445.440	0.000
445.450	445.450	0.000
445.460	445.460	0.000
445.470	445.470	0.000
445.480	445.480	0.000
445.490	445.490	0.000
445.500	445.500	0.000
445.510	445.510	0.000
445.520	445.520	0.000
445.530	445.530	0.000
445.540	445.540	0.000
445.550	445.550	0.000
445.560	445.560	0.000
445.570	445.570	0.000
445.580	445.580	0.000
445.590	445.590	0.000
445.600	445.600	0.000
445.610	445.610	0.000
445.620	445.620	0.000
445.630	445.630	0.000
445.640	445.640	0.000
445.650	445.650	0.000
445.660	445.660	0.000
445.670	445.670	0.000
445.680	445.680	0.000
445.690	445.690	0.000
445.700	445.700	0.000
445.710	445.710	0.000
445.720	445.720	0.000
445.730	445.730	0.000
445.740	445.740	0.000
445.750	445.750	0.000
445.760	445.760	0.000
445.770	445.770	0.000
445.780	445.780	0.000
445.790	445.790	0.000
445.800	445.800	0.000



445+520.00

EXISTING ELEVATIONS	444+770	444+771	444+772	444+773	444+774	444+775	444+776	444+777	444+778	444+779	444+780	444+781	444+782	444+783	444+784	444+785	444+786	444+787	444+788	444+789	444+790	444+791	444+792	444+793	444+794	444+795	444+796	444+797	444+798	444+799	444+800
	332.45	332.46	332.47	332.48	332.49	332.50	332.51	332.52	332.53	332.54	332.55	332.56	332.57	332.58	332.59	332.60	332.61	332.62	332.63	332.64	332.65	332.66	332.67	332.68	332.69	332.70	332.71	332.72	332.73	332.74	332.75
DESIGN ELEVATIONS	332.40	332.41	332.42	332.43	332.44	332.45	332.46	332.47	332.48	332.49	332.50	332.51	332.52	332.53	332.54	332.55	332.56	332.57	332.58	332.59	332.60	332.61	332.62	332.63	332.64	332.65	332.66	332.67	332.68	332.69	332.70
	332.40	332.41	332.42	332.43	332.44	332.45	332.46	332.47	332.48	332.49	332.50	332.51	332.52	332.53	332.54	332.55	332.56	332.57	332.58	332.59	332.60	332.61	332.62	332.63	332.64	332.65	332.66	332.67	332.68	332.69	332.70
DIFF	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

Stationed (m) at Station 444+770.00					
Interval (m)	Area	Volume	Compensated Volume		
Stationed - 120	3.23	62.64	11000.44		

ELGHAZY

ELDAWILA :

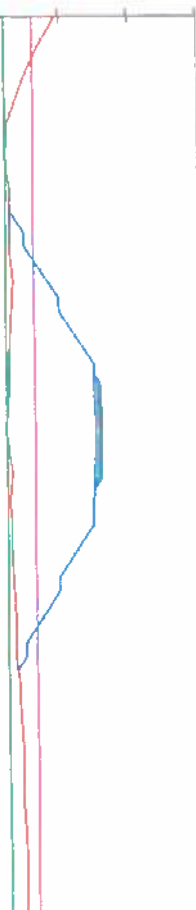
ELRAIED Consulting :



مطابق الجدول في خطة المساحة
 Data for Surveying maps
 في خطة المساحة / Data for Surveying maps



445+540.00



Material 19 09 09 (Date - 4.1.15 am)			
Material Name	Form	Volume	Estimated Volume
Material - [1]	B-64	2.9 m	1 (60) 34

EXISTING ELEVATIONS	DESIGN ELEVATIONS	DIFF
338.44		
338.25		
337.09		
336.08		
335.15		
334.30		
333.57		
332.82		
332.22		
332.13		
332.02		
332.23		
332.43		
332.51		
332.52		
332.54		
332.56		
332.63		
332.79		
332.94		
332.88		
332.77		
332.66		
332.85		
332.46		
332.39		
332.34		
332.28		
332.19		
332.07		
331.91		
331.17		
332.17		
332.61		
332.51		
332.39		
332.43		
332.32		
332.43		
332.68		
332.81		
332.89		
332.96		
333.02		
333.07		
333.04		
333.22		
333.30		
333.42		
333.62		
333.72		
333.80		
333.86		
333.91		
333.99		
334.01		
334.07		
334.15		
334.24		
334.32		
334.28		
334.22		
334.16		
	332.58	-0.06
	333.92	-1.37
	334.63	-2.06
	335.25	-2.62
	336.58	-3.80
	337.92	-4.98
	339.25	-6.37
	339.63	-6.85
	340.58	-7.92
	341.92	-9.57
	341.28	-10.79
	341.58	-12.20
	344.70	-12.57
	344.78	-12.50
	344.80	-12.67
	344.94	-12.88
	345.02	-13.11
	344.94	-12.78
	344.86	-12.44
	344.78	-12.14
	344.70	-12.39
	344.62	-12.23
	344.54	-12.32
	344.11	-11.69
	342.78	-10.34
	341.44	-8.90
	340.11	-7.43
	339.49	-6.68
	338.78	-5.89
	337.44	-4.48
	336.11	-3.08
	334.78	-1.71
	334.49	-1.44
	333.44	-0.22

ELGHAZY

ELDAWLIA

ELRAEID Consulting



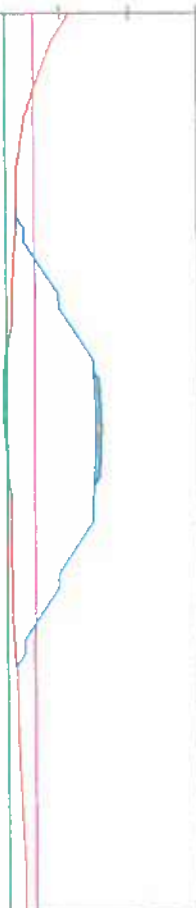


OCTOBER ASWAN ELECTRIC EXPRESS TRAIN (HIGH SPEED RAIL) SECTION THREE (Manfouit - Gerga)

Al-Ghazi Contracting Company Section From Station 444+770 To 445+800



445+560.00



Summary of Key Data			
Stationing	Area	Volume	Quantity
Stationing - 10	4.11	42.80	3.187232

EXISTING ELEVATIONS	DESIGN ELEVATIONS	DIFF
337.00	337.00	0.00
336.99	336.99	-0.01
336.98	336.98	-0.02
336.97	336.97	-0.03
336.96	336.96	-0.04
336.95	336.95	-0.05
336.94	336.94	-0.06
336.93	336.93	-0.07
336.92	336.92	-0.08
336.91	336.91	-0.09
336.90	336.90	-0.10
336.89	336.89	-0.11
336.88	336.88	-0.12
336.87	336.87	-0.13
336.86	336.86	-0.14
336.85	336.85	-0.15
336.84	336.84	-0.16
336.83	336.83	-0.17
336.82	336.82	-0.18
336.81	336.81	-0.19
336.80	336.80	-0.20
336.79	336.79	-0.21
336.78	336.78	-0.22
336.77	336.77	-0.23
336.76	336.76	-0.24
336.75	336.75	-0.25
336.74	336.74	-0.26
336.73	336.73	-0.27
336.72	336.72	-0.28
336.71	336.71	-0.29
336.70	336.70	-0.30
336.69	336.69	-0.31
336.68	336.68	-0.32
336.67	336.67	-0.33
336.66	336.66	-0.34
336.65	336.65	-0.35
336.64	336.64	-0.36
336.63	336.63	-0.37
336.62	336.62	-0.38
336.61	336.61	-0.39
336.60	336.60	-0.40
336.59	336.59	-0.41
336.58	336.58	-0.42
336.57	336.57	-0.43
336.56	336.56	-0.44
336.55	336.55	-0.45
336.54	336.54	-0.46
336.53	336.53	-0.47
336.52	336.52	-0.48
336.51	336.51	-0.49
336.50	336.50	-0.50
336.49	336.49	-0.51
336.48	336.48	-0.52
336.47	336.47	-0.53
336.46	336.46	-0.54
336.45	336.45	-0.55
336.44	336.44	-0.56
336.43	336.43	-0.57
336.42	336.42	-0.58
336.41	336.41	-0.59
336.40	336.40	-0.60
336.39	336.39	-0.61
336.38	336.38	-0.62
336.37	336.37	-0.63
336.36	336.36	-0.64
336.35	336.35	-0.65
336.34	336.34	-0.66
336.33	336.33	-0.67
336.32	336.32	-0.68
336.31	336.31	-0.69
336.30	336.30	-0.70
336.29	336.29	-0.71
336.28	336.28	-0.72
336.27	336.27	-0.73
336.26	336.26	-0.74
336.25	336.25	-0.75
336.24	336.24	-0.76
336.23	336.23	-0.77
336.22	336.22	-0.78
336.21	336.21	-0.79
336.20	336.20	-0.80
336.19	336.19	-0.81
336.18	336.18	-0.82
336.17	336.17	-0.83
336.16	336.16	-0.84
336.15	336.15	-0.85
336.14	336.14	-0.86
336.13	336.13	-0.87
336.12	336.12	-0.88
336.11	336.11	-0.89
336.10	336.10	-0.90
336.09	336.09	-0.91
336.08	336.08	-0.92
336.07	336.07	-0.93
336.06	336.06	-0.94
336.05	336.05	-0.95
336.04	336.04	-0.96
336.03	336.03	-0.97
336.02	336.02	-0.98
336.01	336.01	-0.99
336.00	336.00	-1.00

ELGHAZI :

ELDAMIYA :

ELRAEID Consulting :

El Damia For Surveying & Maps

الدراميا
للدراسات المساحية
والخرائط
والقواعد
والبيانات
والصور
والخرائط
والقواعد
والبيانات
والصور

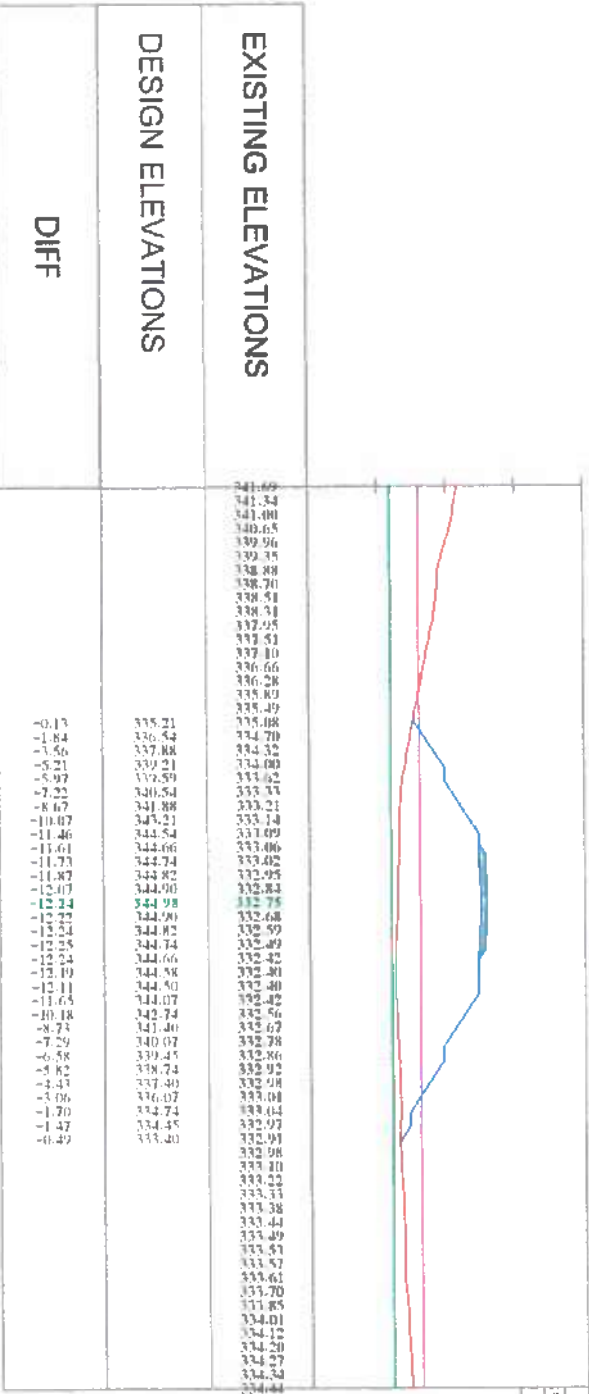


OCTOBER ASWAN ELECTRIC EXPRESS TRAIN (HIGH SPEED RAIL) SECTION THREE (Manfout - Gerga)
Al-Ghazl Contracting Company Section From Station 444+770 To 445+800



445+580.00

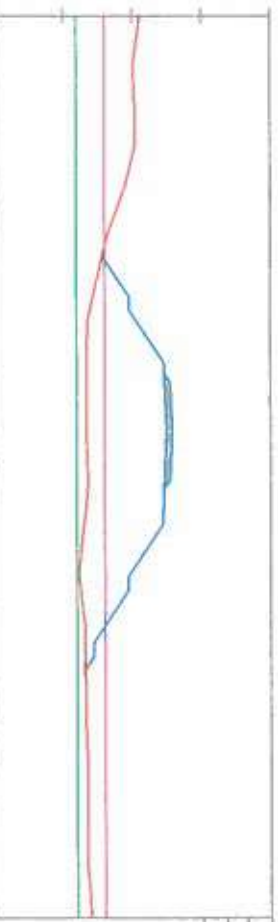
Horizontal (H) or Vertical (V) Station			
Station	Angle	Vertical	Curvature
Station - 11	0.00	44.41	13.111.18



EL Dawila For Surveying & Mapping



445+600.00



Station	Height	Width	Depth
445+600.00	0.00	0.00	0.00

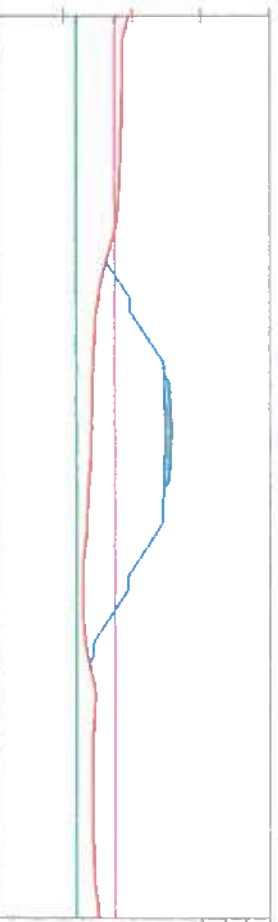
EXISTING ELEVATIONS	DESIGN ELEVATIONS	DIFF
445.86	445.86	0.00
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445.83	445.83	0.00
445.82	445.82	0.00
445.81	445.81	0.00
445.80	445.80	0.00
445.79	445.79	0.00
445.78	445.78	0.00
445.77	445.77	0.00
445.76	445.76	0.00
445.75	445.75	0.00
445.74	445.74	0.00
445.73	445.73	0.00
445.72	445.72	0.00
445.71	445.71	0.00
445.70	445.70	0.00
445.69	445.69	0.00
445.68	445.68	0.00
445.67	445.67	0.00
445.66	445.66	0.00
445.65	445.65	0.00
445.64	445.64	0.00
445.63	445.63	0.00
445.62	445.62	0.00
445.61	445.61	0.00
445.60	445.60	0.00
445.59	445.59	0.00
445.58	445.58	0.00
445.57	445.57	0.00
445.56	445.56	0.00
445.55	445.55	0.00
445.54	445.54	0.00
445.53	445.53	0.00
445.52	445.52	0.00
445.51	445.51	0.00
445.50	445.50	0.00
445.49	445.49	0.00
445.48	445.48	0.00
445.47	445.47	0.00
445.46	445.46	0.00
445.45	445.45	0.00
445.44	445.44	0.00
445.43	445.43	0.00
445.42	445.42	0.00
445.41	445.41	0.00
445.40	445.40	0.00
445.39	445.39	0.00
445.38	445.38	0.00
445.37	445.37	0.00
445.36	445.36	0.00
445.35	445.35	0.00
445.34	445.34	0.00
445.33	445.33	0.00
445.32	445.32	0.00
445.31	445.31	0.00
445.30	445.30	0.00
445.29	445.29	0.00
445.28	445.28	0.00
445.27	445.27	0.00
445.26	445.26	0.00
445.25	445.25	0.00
445.24	445.24	0.00
445.23	445.23	0.00
445.22	445.22	0.00
445.21	445.21	0.00
445.20	445.20	0.00
445.19	445.19	0.00
445.18	445.18	0.00
445.17	445.17	0.00
445.16	445.16	0.00
445.15	445.15	0.00
445.14	445.14	0.00
445.13	445.13	0.00
445.12	445.12	0.00
445.11	445.11	0.00
445.10	445.10	0.00
445.09	445.09	0.00
445.08	445.08	0.00
445.07	445.07	0.00
445.06	445.06	0.00
445.05	445.05	0.00
445.04	445.04	0.00
445.03	445.03	0.00
445.02	445.02	0.00
445.01	445.01	0.00
445.00	445.00	0.00



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 1000 El Dawila For Surveying & Mapping

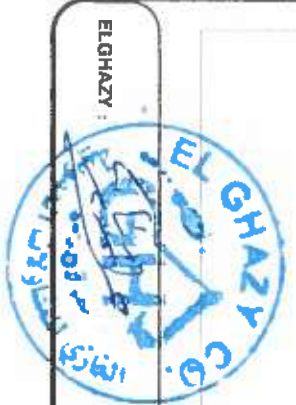
الدائرة
 لمهندسين
 المساحة
 1000 الدائرة لمهندسين المساحة

445+640.00



EXISTING ELEVATIONS	DESIGN ELEVATIONS	DIFF
445.70	445.70	0.00
445.65	445.65	0.00
445.60	445.60	0.00
445.55	445.55	0.00
445.50	445.50	0.00
445.45	445.45	0.00
445.40	445.40	0.00
445.35	445.35	0.00
445.30	445.30	0.00
445.25	445.25	0.00
445.20	445.20	0.00
445.15	445.15	0.00
445.10	445.10	0.00
445.05	445.05	0.00
445.00	445.00	0.00
444.95	444.95	0.00
444.90	444.90	0.00
444.85	444.85	0.00
444.80	444.80	0.00
444.75	444.75	0.00
444.70	444.70	0.00
444.65	444.65	0.00
444.60	444.60	0.00
444.55	444.55	0.00
444.50	444.50	0.00
444.45	444.45	0.00
444.40	444.40	0.00
444.35	444.35	0.00
444.30	444.30	0.00
444.25	444.25	0.00
444.20	444.20	0.00
444.15	444.15	0.00
444.10	444.10	0.00
444.05	444.05	0.00
444.00	444.00	0.00
443.95	443.95	0.00
443.90	443.90	0.00
443.85	443.85	0.00
443.80	443.80	0.00
443.75	443.75	0.00
443.70	443.70	0.00
443.65	443.65	0.00
443.60	443.60	0.00
443.55	443.55	0.00
443.50	443.50	0.00
443.45	443.45	0.00
443.40	443.40	0.00
443.35	443.35	0.00
443.30	443.30	0.00
443.25	443.25	0.00
443.20	443.20	0.00
443.15	443.15	0.00
443.10	443.10	0.00
443.05	443.05	0.00
443.00	443.00	0.00
442.95	442.95	0.00
442.90	442.90	0.00
442.85	442.85	0.00
442.80	442.80	0.00
442.75	442.75	0.00
442.70	442.70	0.00
442.65	442.65	0.00
442.60	442.60	0.00
442.55	442.55	0.00
442.50	442.50	0.00
442.45	442.45	0.00
442.40	442.40	0.00
442.35	442.35	0.00
442.30	442.30	0.00
442.25	442.25	0.00
442.20	442.20	0.00
442.15	442.15	0.00
442.10	442.10	0.00
442.05	442.05	0.00
442.00	442.00	0.00
441.95	441.95	0.00
441.90	441.90	0.00
441.85	441.85	0.00
441.80	441.80	0.00
441.75	441.75	0.00
441.70	441.70	0.00
441.65	441.65	0.00
441.60	441.60	0.00
441.55	441.55	0.00
441.50	441.50	0.00
441.45	441.45	0.00
441.40	441.40	0.00
441.35	441.35	0.00
441.30	441.30	0.00
441.25	441.25	0.00
441.20	441.20	0.00
441.15	441.15	0.00
441.10	441.10	0.00
441.05	441.05	0.00
441.00	441.00	0.00
440.95	440.95	0.00
440.90	440.90	0.00
440.85	440.85	0.00
440.80	440.80	0.00
440.75	440.75	0.00
440.70	440.70	0.00
440.65	440.65	0.00
440.60	440.60	0.00
440.55	440.55	0.00
440.50	440.50	0.00
440.45	440.45	0.00
440.40	440.40	0.00
440.35	440.35	0.00
440.30	440.30	0.00
440.25	440.25	0.00
440.20	440.20	0.00
440.15	440.15	0.00
440.10	440.10	0.00
440.05	440.05	0.00
440.00	440.00	0.00

Station	Point	Volume	Consolidation	Volume
444+770	1	0.00	0.00	0.00
445+800	1	0.00	0.00	0.00

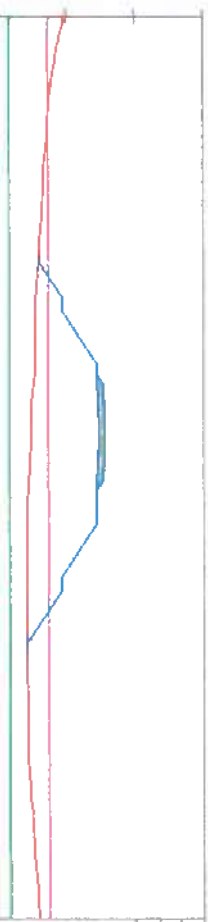


El Dawila For Surveying & Maps
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ELRAEID Consulting
 ELRAEID Consulting
 ELRAEID Consulting



445+700.00



Material: F 70, at Brucke 4.41 + 700.00			
Material of Supply	Length	Width	Combining Volume
Material - 111	0.05	0.00	11111.74

EXISTING ELEVATIONS	DESIGN ELEVATIONS	DIFF
339.76		
339.26		-0.50
338.77		-1.00
338.43		-1.34
338.09		-1.68
337.75		-2.02
337.54		-2.23
337.39		-2.38
337.26		-2.50
337.10		-2.66
336.91		-2.85
336.77		-3.00
336.63		-3.14
336.55		-3.22
336.47		-3.29
336.38		-3.38
336.21		-3.55
336.05		-3.71
335.88		-3.88
335.76		-4.00
335.66		-4.10
335.57		-4.19
335.52		-4.24
335.47		-4.29
335.44		-4.32
335.40		-4.36
335.34		-4.42
335.14		-4.62
334.97		-4.79
334.89		-4.87
334.83		-4.93
334.76		-5.00
334.70		-5.06
334.61		-5.15
334.51		-5.25
334.40		-5.36
334.34		-5.42
334.29		-5.47
334.24		-5.52
334.25		-5.53
334.26		-5.54
334.28		-5.56
334.26		-5.58
334.24		-5.60
334.23		-5.61
334.22		-5.62
334.23		-5.61
334.27		-5.57
334.35		-5.49
334.38		-5.46
334.42		-5.42
334.47		-5.37
334.44		-5.40
334.42		-5.42
334.50		-5.34
334.61		-5.23
334.73		-5.11
334.97		-4.87
335.07		-4.77
335.14		-4.70
335.28		-4.56
335.44		-4.40
335.60		-4.24
335.76		-4.08
335.90		-3.94
336.07		-3.77
336.22		-3.62
336.36		-3.48
336.49		-3.35
336.62		-3.22
336.74		-3.10
336.86		-2.98
336.97		-2.87
337.08		-2.76
337.18		-2.66
337.28		-2.56
337.38		-2.46
337.47		-2.37
337.56		-2.28
337.65		-2.19
337.74		-2.10
337.83		-2.01
337.92		-1.92
338.01		-1.83
338.10		-1.74
338.19		-1.65
338.28		-1.56
338.37		-1.47
338.46		-1.38
338.55		-1.29
338.64		-1.20
338.73		-1.11
338.82		-1.02
338.91		-0.93
339.00		-0.84
339.09		-0.75
339.18		-0.66
339.27		-0.57
339.36		-0.48
339.45		-0.39
339.54		-0.30
339.63		-0.21
339.72		-0.12
339.81		-0.03
339.90		0.06
340.00		0.15
340.09		0.24
340.18		0.33
340.27		0.42
340.36		0.51
340.45		0.60
340.54		0.69
340.63		0.78
340.72		0.87
340.81		0.96
340.90		1.05
341.00		1.14
341.09		1.23
341.18		1.32
341.27		1.41
341.36		1.50
341.45		1.59
341.54		1.68
341.63		1.77
341.72		1.86
341.81		1.95
341.90		2.04
342.00		2.13
342.09		2.22
342.18		2.31
342.27		2.40
342.36		2.49
342.45		2.58
342.54		2.67
342.63		2.76
342.72		2.85
342.81		2.94
342.90		3.03
343.00		3.12
343.09		3.21
343.18		3.30
343.27		3.39
343.36		3.48
343.45		3.57
343.54		3.66
343.63		3.75
343.72		3.84
343.81		3.93
343.90		4.02
344.00		4.11
344.09		4.20
344.18		4.29
344.27		4.38
344.36		4.47
344.45		4.56
344.54		4.65
344.63		4.74
344.72		4.83
344.81		4.92
344.90		5.01
345.00		5.10
345.09		5.19
345.18		5.28
345.27		5.37
345.36		5.46
345.45		5.55
345.54		5.64
345.63		5.73
345.72		5.82
345.81		5.91
345.90		6.00
346.00		6.09
346.09		6.18
346.18		6.27
346.27		6.36
346.36		6.45
346.45		6.54
346.54		6.63
346.63		6.72
346.72		6.81
346.81		6.90
346.90		6.99
347.00		7.08
347.09		7.17
347.18		7.26
347.27		7.35
347.36		7.44
347.45		7.53
347.54		7.62
347.63		7.71
347.72		7.80
347.81		7.89
347.90		7.98
348.00		8.07
348.09		8.16
348.18		8.25
348.27		8.34
348.36		8.43
348.45		8.52
348.54		8.61
348.63		8.70
348.72		8.79
348.81		8.88
348.90		8.97
349.00		9.06
349.09		9.15
349.18		9.24
349.27		9.33
349.36		9.42
349.45		9.51
349.54		9.60
349.63		9.69
349.72		9.78
349.81		9.87
349.90		9.96
350.00		10.05

ELGHAZY

ELDAWILA:

ELRAEID Consulting :





OCTOBER ASWAN ELECTRIC EXPRESS TRAIN (HIGH SPEED RAIL) SECTION THREE (Manfout - Gerga)

Al-Ghazl Contracting Company Section From Station 444+770 To 445+800



445+720.00

Borrowing Price at Station 445+720.00			
Material Name	Unit	Quantity	Estimated Volume
Material - (1)	0.00	0.00	1.0000 m³

EXISTING ELEVATIONS	336.42	336.42
	336.42	336.42
DESIGN ELEVATIONS	336.42	336.42
	336.42	336.42
DIFF	336.42	336.42
	336.42	336.42

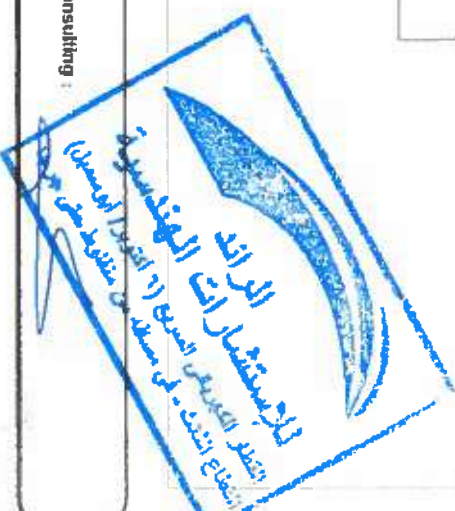
ELGHAZY :

ELDAWILA :

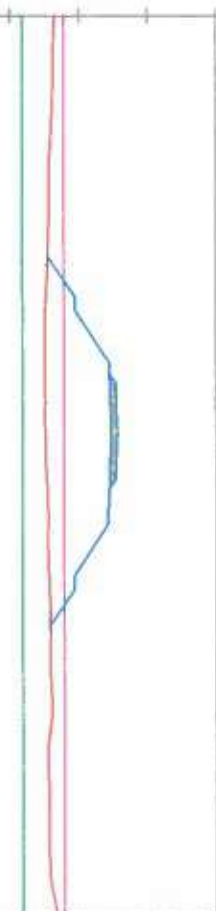
ELRAEID Consulting :



El Dawila For Surveying & Maps



445+760.00



Selected Firms in Domestic LTL + Truck Ops			
Domestic Shipments	Revenue	Volume	Domestic + Int'l Volume
Stewart (1)	\$ 600	0 000	1 041 155 + 2

EXISTING ELEVATIONS	DESIGN ELEVATIONS	DIFF
336.45		
336.42		
336.38		
336.33		
336.28		
336.23		
336.18		
336.10		
336.00		
335.89		
335.79		
335.76		
335.73		
335.69		
335.64		
335.60		
335.53		
335.47		
335.42		
335.35		
335.24		
335.16		
335.10		
335.06		
335.02		
335.01		
335.00		
335.08		
335.13		
335.13		
335.11		
335.11		
335.15		
335.32		
335.42		
335.41		
335.44		
335.48		
335.42		
335.41		
335.44		
335.48		
335.53		
335.49		
335.54		
335.60		
335.67		
335.78		
335.80		
335.85		
335.88		
335.88		
335.83		
335.90		
336.00		
336.10		
335.93		
335.66		
335.43		
335.80		
335.55		
335.53		
335.58		
335.58		
335.59		
335.62		
335.74		
336.07		
336.45		
	336.36	-0.09
	337.20	-2.35
	339.63	-3.79
	339.41	-4.24
	340.36	-5.26
	341.70	-6.64
	343.03	-8.01
	343.36	-9.35
	344.48	-9.85
	344.56	-9.49
	344.64	-9.52
	344.72	-9.59
	344.80	-9.70
	344.72	-9.41
	344.64	-9.49
	344.56	-9.28
	344.48	-9.06
	344.40	-8.89
	344.32	-8.78
	343.89	-8.36
	342.56	-7.06
	341.22	-5.71
	339.89	-4.30
	339.27	-3.59
	338.36	-2.77
	337.22	-1.42
	335.89	-1.04

ELGHAZY

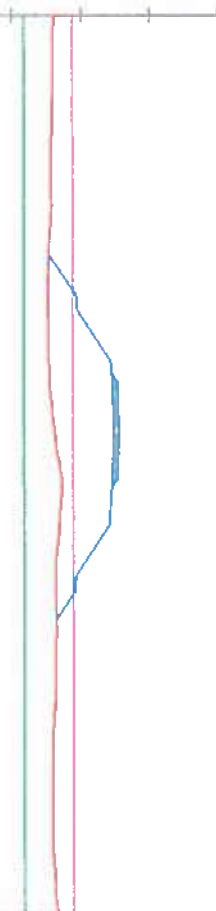
E.L.DAWLIA

ELRAEID Consulting

El Davila For Surveying & Maps

الحمد لله الذي هدانا لهذا

القطر الكهربي
القطر الكهربي

$$445 + 780.00$$


Material (Pb) at Section 441+75.00		
Material Type	Area	Volume
Material - (11)	4.00	11.111704

[illegible]

ELGHAZY

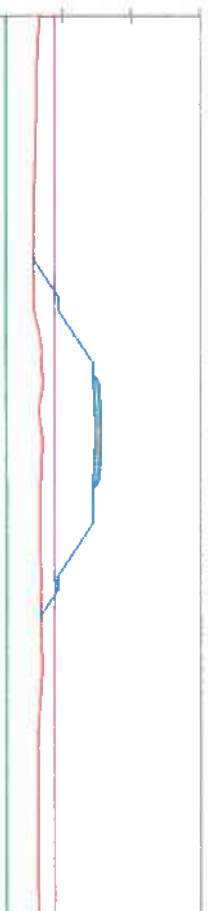
ELDAWILIA

ELRAEID Consulting

Endnotes For Survein&me

لجنة استشارات أمن القطار الكهربائي
القطار الكهربائي - أمن مسطحة من مسطحات

445+800.00



Material 9755, at Position 4-1-100 dm			
Material Name	Area	Volume	Conc. in Volume
Material - (11)	0.000	0.000	11011676

[illegible]

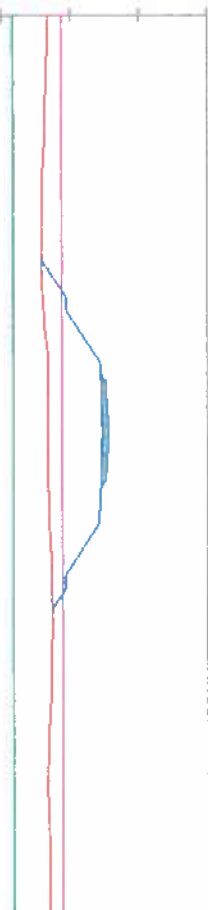
ELGHAZY

ELDAWLIA:

ELRAEID Consulting



445+820.00



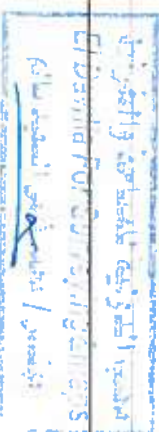
Abstract (Title and Authors: 445-170-20)			
Project title beginning	Author	Publication	Classification (indexing)
Abstract - (1)	00000	00000	316115 94

DIFF	DESIGN ELEVATIONS	EXISTING ELEVATIONS
-0.44	336.30	336.82
+1.73	337.64	336.73
-3.00	338.97	336.68
-3.28	339.35	336.63
-4.10	340.30	336.59
-5.24	341.64	336.53
-6.38	342.97	336.44
-7.55	344.50	336.34
-7.62	344.42	336.27
-7.73	344.50	336.20
-7.85	344.58	336.12
-7.97	344.66	336.04
-8.05	344.74	335.96
-7.95	344.66	335.94
-7.84	344.58	335.91
-7.72	344.50	335.97
-7.58	344.42	336.07
-7.46	344.34	336.20
-7.36	344.26	336.40
-6.21	343.83	336.59
-5.49	342.50	336.75
-4.06	341.16	336.88
-2.62	339.83	336.90
-1.92	339.21	336.92
-1.17	338.50	337.00
		337.35
		337.37
		337.34
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		336.87
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		336.86
		336.87

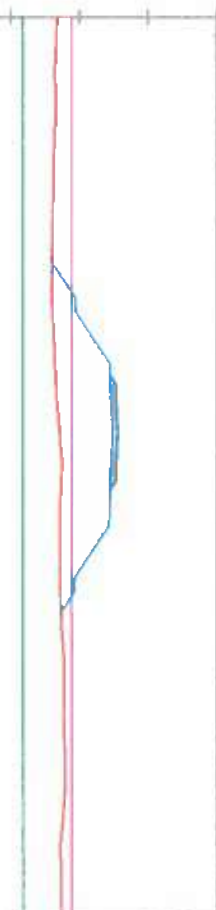
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Statistical Summary of Simulation Results			
Simulation Step	Time (s)	Velocity (m/s)	Temperature (K)
Step 1 - 100	0.000	0.000	300.000



EXISTING ELEVATIONS	DESIGN ELEVATIONS	DIFF
336.78		
336.67		
336.57		
336.46		
336.37		
336.27		
336.15		
336.05		
336.40		
336.30		
336.21		
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336.69		
336.85		
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337.60		
337.62		
337.62		
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337.58		
337.62		
337.70		
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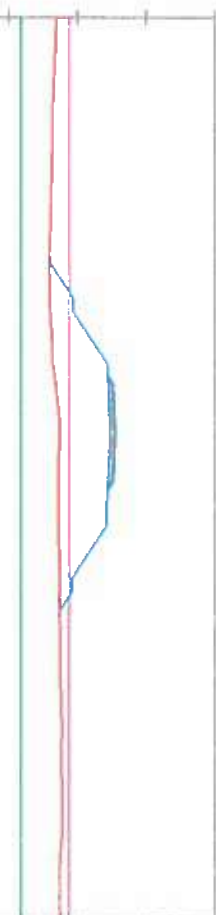


செய்யுதில் திருமொழி

Guidelines for Surveying:

For more information, contact:

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$$445 + 850.00$$


Materialien (Filling der Spalten 1-65 + 110-120)			
Material und Material	Ausgang	Verfahren	Combinierende Verfahren
Material und - (11)	Sp. 100	Sp. 100	110 115 120

EXISTING ELEVATIONS	DESIGN ELEVATIONS	DIFF
336.80		
336.80		
336.72		
336.65		
336.56		
336.47		
336.41		
336.35		
336.28		
336.21		
336.20		
336.17		
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335.97		
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335.84		
335.82		
335.88		
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337.56		
337.63		
337.69		
337.66		
337.62		
337.60		
337.66		
337.69		
337.74		
337.74		
337.74		
337.69		
337.54		
337.41		
337.35		
337.34		
337.37		
	336.27	-0.44
	337.61	-1.78
	338.94	-3.05
	339.32	-3.37
	340.27	-4.20
	341.61	-5.42
	342.94	-6.64
	344.27	-7.87
	345.59	-7.76
	346.47	-7.58
	348.85	-2.47
	344.63	-7.56
	344.71	-7.42
	342.63	-7.38
	344.55	-7.34
	344.47	-7.28
	344.39	-7.18
	344.31	-7.06
	344.23	-6.99
	343.80	-6.60
	342.47	-5.23
	341.13	-3.83
	339.80	-2.49
	339.18	-1.85
	338.47	-1.13

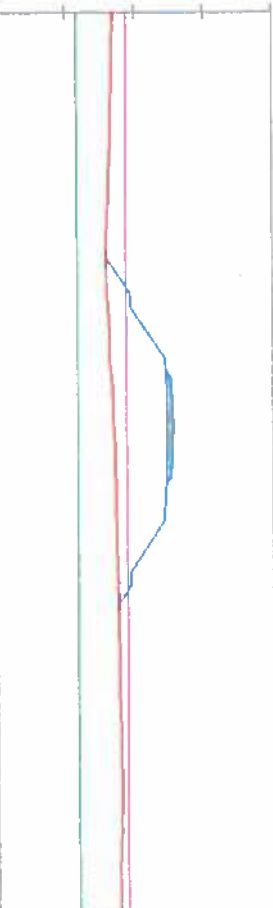
ELGHMAZY

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445+860.00



EXISTING ELEVATIONS	DESIGN ELEVATIONS	DIFF
445.89	445.89	0.00
445.88	445.88	0.00
445.87	445.87	0.00
445.86	445.86	0.00
445.85	445.85	0.00
445.84	445.84	0.00
445.83	445.83	0.00
445.82	445.82	0.00
445.81	445.81	0.00
445.80	445.80	0.00
445.79	445.79	0.00
445.78	445.78	0.00
445.77	445.77	0.00
445.76	445.76	0.00
445.75	445.75	0.00
445.74	445.74	0.00
445.73	445.73	0.00
445.72	445.72	0.00
445.71	445.71	0.00
445.70	445.70	0.00
445.69	445.69	0.00
445.68	445.68	0.00
445.67	445.67	0.00
445.66	445.66	0.00
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445.61	445.61	0.00
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445.57	445.57	0.00
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445.45	445.45	0.00
445.44	445.44	0.00
445.43	445.43	0.00
445.42	445.42	0.00
445.41	445.41	0.00
445.40	445.40	0.00
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445.08	445.08	0.00
445.07	445.07	0.00
445.06	445.06	0.00
445.05	445.05	0.00
445.04	445.04	0.00
445.03	445.03	0.00
445.02	445.02	0.00
445.01	445.01	0.00
445.00	445.00	0.00

Station	Station	Station	Station
444+770	444+770	444+770	444+770
444+770	444+770	444+770	444+770
444+770	444+770	444+770	444+770

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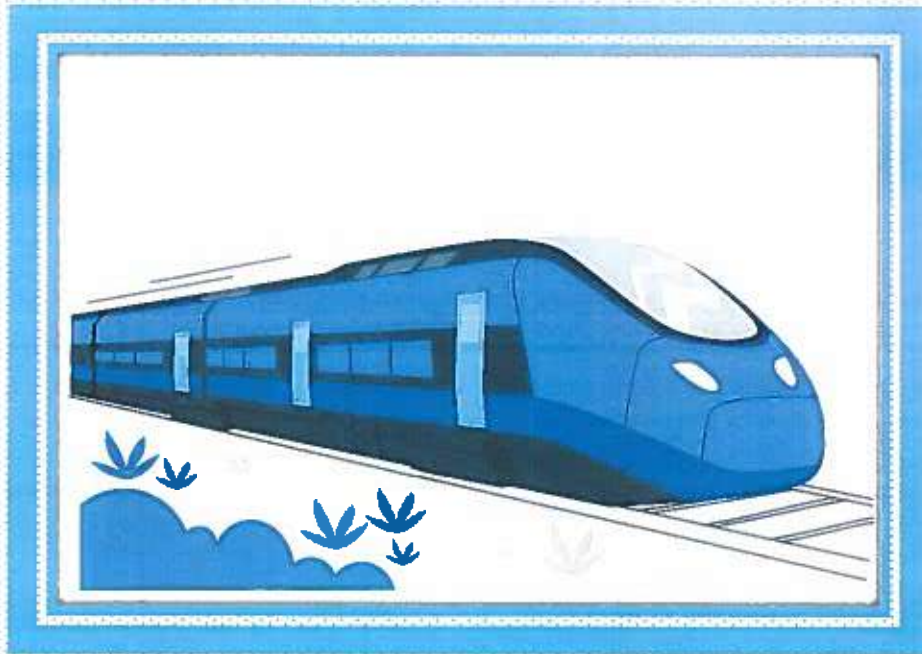
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بيان الأعمال

شركة الغاز للمقاولات العامة



عن عملية : تنفيذ الجسر القرائي والأعمال الصناعية بقطاعات مشروع إنشاء القطر الكهربائي (أكتوبر - أسوان)

لتنفيذ أعمال الجسر القرائي القطاع الثالث (منفلوط - جرجا)

من الكم ٤٤٤+٧٧٠ إلى الكم ٤٤٥+٨٠٠ بطول ١,٠٣٠ كم

من منسوب الأرض الطبيعية حتى منسوب ١٣ م

الجاه جرجا (بالأمر المباشر) تنفيذ : لتفاريق للمقاولات الصومية

بيان أعمال

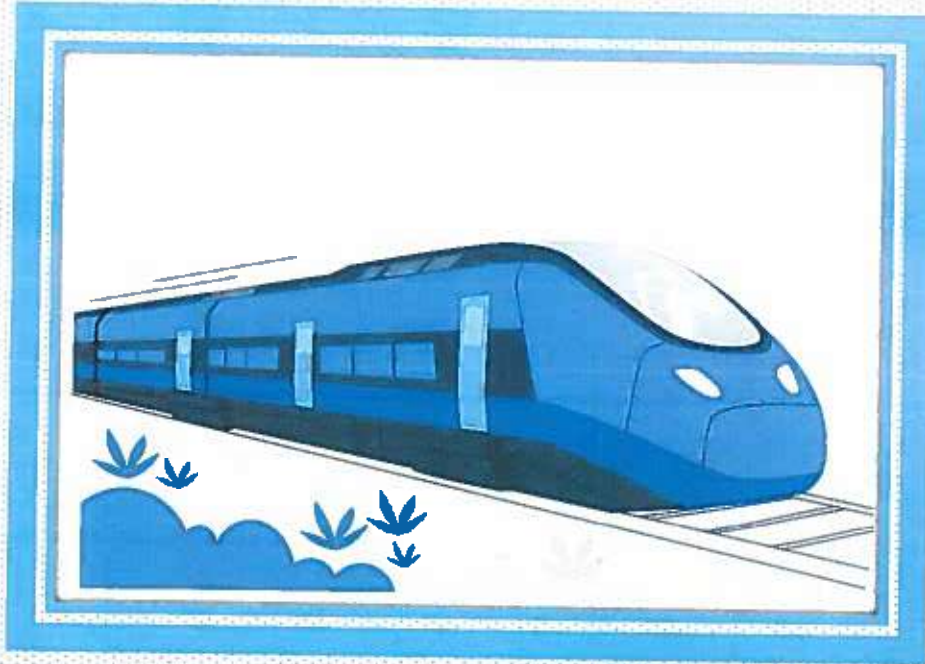
مستخلص جاري (٢) عن الفترة من بداية العمل حتى ٢٠٢٤/٠١/٠٣ - العقد رقم (٢٠٢٤/٢٠٢٣/٥٥٣)

رقم البند	بيان الأعمال	الوحدة	الكمية حسب المقايمة	الكمية خلال المدة	الكمية المنصرفة
١٢	أعمال الدعم				
١٢	بالمتر المكعب أعمال تحميل وتوريد ونقل التربة مطابقة للمواصفات و تشغيلها باستخدام آلات التسيو بسمك لا يزيد عن ٥٠ سم حتى منسوب (2.00 متر) وبسمك لا يزيد عن ٢٥ سم لاستكمال المنسوب التسيو لتشكيل للجسر و الاكتاف (تسيو شغل كاليفورنيا لا تقل عن ٢٠%) ورشها بالمياه الاسولية للوصول الى نسبة الرطوبة المطلوبة و النك الجيد بالهزازات للوصول الى القسي كثافة جافة (٩٥% من الكثافة للجافة القصوى) ويتم التنفيذ طبقا للمواصفات التصميمية و القطاعات العرضية النموذجية و الرسومات التفصيلية المعتمدة و البند بجميع مشكلاته طبقا لاصول الصناعة و مواصفات الهيئة العامة للطرق والكباري وتعليمات المهندس المشرف.	م ^٣	120,800.00	23,000.00	116,000.00
	ملحوظة				
	- في حالة طلب جهاز الاشراف زيادة نسبة النك من ٩٥% بسبب زيادة ١ جنية علي زيادة نسبة النك لكل ١%				
	- مسافة النقل حتى ٢ كم ويتم حساب علاوة ١,٤ جنيه لكل كم بالزيادة او النقصان				
	- السعر يشمل عمل تشوينات وتخطيط واختيارات ونقل مولى العمل حتى مسافة ٢ كم والبند لا يشمل القيمة المحجورة				
	علاوة مسافة نقل ٢٥ كم		120800	23000	116000
	قيمة المواد المحجورة للتربة		120800	23000	116000
	علاوة زيادة السولار		120800	23000	116000

يعتمد
مهندس الهيئة
التوقيع

م





اختبارات تتبع الأرض الطبيعية

شركة الغازى للمقاولات العامة



project	Eleetric Express Train	Date of Sample	3/8/2023
Company	الغازى	Date of Report.	5/8/2023
Station	444+910 to 444+980	Level	-17 M

**Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16**

1- Mass of Materials

Item	Unit	Value
Mass of total Wet Matrials	gm	75,898
Moistur Content of total Matrials	%	4.9
Mass of Wet OverSize Fraction	gm	36,341
Moistur Content of OverSize Fraction	%	3.35
Mass of Dry OverSize Fraction	gm	35,123
Mass of Wet Control Fraction	gm	39,557
Moistur Content of Control Fraction	%	5.9
Mass of Dry Control Fraction	gm	37,223

2- Volume of the Pit

Item	Unit	Value
Mass of Calibrated Sand in pit and Tamplate	gm	67,784
Mass of Calibrated Sand in Tamplate	gm	20,401
Mass of Calibrated Sand in pit	gm	47,383
Density of Calibrated Sand	gm/Cm3	1.49
Volume of the Pit	Cm3	31,801
Specific Gravity of Oversize Fraction	gm/Cm3	2.520
Volume of Oversize Fraction	Cm3	14,421
Volume of Control Fraction	Cm3	17,380

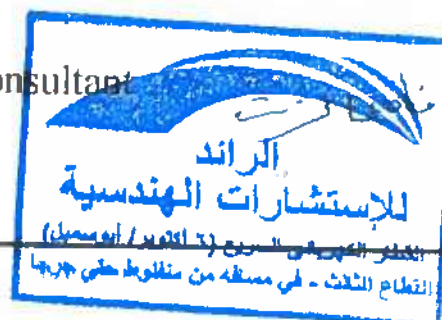
3-Relative Density Calculation

Density of Control Fraction	gm/Cm3	2.170
Modified Proctor	gm/Cm3	2.250
Compaction	%	96.4%
Pass/Fail	95%(min.)	Pass

contractor



Consultant



الهيئة القومية للإنفاق



EL-RAEID
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الراند للاستشارات الهندسية



project	Eleetric Express Train	Date of Sample	3/8/2023
Company	الغازي	Date of Report.	5/8/2023
Station	444+980 to 445+050	Level	-17 M

**Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16**

1- Mass of Materials

Item	Unit	Value
Mass of total Wet Matrials	gm	78,122
Moistur Content of total Matrials	%	4.96
Mass of Wet OverSize Fraction	gm	37,065
Moistur Content of OverSize Fraction	%	3.48
Mass of Dry OverSize Fraction	gm	35,775
Mass of Wet Control Fraction	gm	41,057
Moistur Content of Control Fraction	%	5.85
Mass of Dry Control Fraction	gm	38,655

2- Volume of the Pit

Item	Unit	Value
Mass of Calibrated Sand in pit and Tamplate	gm	68,898
Mass of Calibrated Sand in Tamplate	gm	20,401
Mass of Calibrated Sand in pit	gm	48,497
Density of Calibrated Sand	gm/Cm3	1.49
Volume of the Pit	Cm3	32,548
Specific Gravity of OverSize Fraction	gm/Cm3	2.523
Volume of OverSize Fraction	Cm3	14,690
Volume of Control Fraction	Cm3	17,858

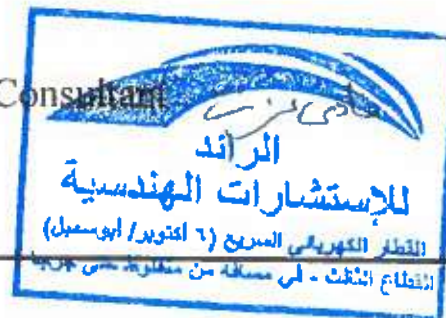
3-Relative Density Calculation

Density of Control Fraction	gm/Cm3	2.19
Modified Proctor	gm/Cm3	2.25
Compaction	%	97.3%
Pass/Fail	95%(min.)	Pass

contractor



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الهيئة القومية للإنفاق

NATIONAL AUTHORITY FOR INFRASTRUCTURE



EL-RAEID

EL-RAEID ENGINEERING CONSULTANTS

الرائد للاستشارات الهندسية



project	Eleetric Express Train	Date of Sample	3/8/2023
Company	الغازى	Date of Report.	5/8/2023
Station	445+050 to 445+060	Level	-17 M

Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16

1- Mass of Materials

Item	Unit	Value
Mass of total Wet Matrials	gm	73,916
Moistur Content of total Matrials	%	5.19
Mass of Wet OverSize Fraction	gm	34,892
Moistur Content of OverSize Fraction	%	3.7
Mass of Dry OverSize Fraction	gm	33,600
Mass of Wet Control Fraction	gm	39,024
Moistur Content of Control Fraction	%	6.05
Mass of Dry Control Fraction	gm	36,663

2- Volume of the Pit

Item	Unit	Value
Mass of Calibrated Sand in pit and Tamplate	gm	66,038
Mass of Calibrated Sand in Tamplate	gm	20,403
Mass of Calibrated Sand in pit	gm	45,635
Density of Calibrated Sand	gm/Cm3	1.49
Volume of the Pit	Cm3	30,627
Specific Gravity of OverSize Fraction	gm/Cm3	2.510
Volume of OverSize Fraction	Cm3	13,901
Volume of Control Fraction	Cm3	16,726

3-Relative Density Calculation

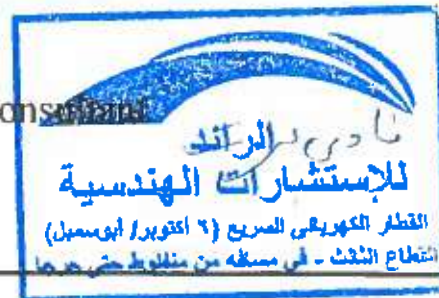
Density of Control Fraction	gm/Cm3	2.218
Modified Proctor	gm/Cm3	2.25
Compaction	%	98.6%
Pass/Fail	95%(min.)	Pass

contractor

Tarek Elsayed



Consultant



الهيئة القومية للانفاق

General Authority for Tunnels



EL-RAEID
CONSULTANTS
الرائد للاستشارات الهندسية



project	Eleetric Express Train	Date of Sample	6/8/2023
Company	الغازي	Date of Report.	7/8/2023
Station	445+200 to 445+270	Level	-14.5 M

**Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16**

1 - Mass of Materials

Item	Unit	Value
Mass of total Wet Matrials	gm	87,899
Moistur Content of total Matrials	%	5.18
Mass of Wet OverSize Fraction	gm	40,076
Moistur Content of OverSize Fraction	%	3.89
Mass of Dry OverSize Fraction	gm	38,517
Mass of Wet Control Fraction	gm	47,823
Moistur Content of Control Fraction	%	5.8
Mass of Dry Control Fraction	gm	45,049

2- Volume of the Pit

Item	Unit	Value
Mass of Calibrated Sand in pit and Tamplate	gm	74,537
Mass of Calibrated Sand in Tamplate	gm	20,409
Mass of Calibrated Sand in pit	gm	54,128
Density of Calibrated Sand	gm/Cm3	1.49
Volume of the Pit	Cm3	36,327
Specific Gravity of Oversize Fraction	gm/Cm3	2.513
Volume of Oversize Fmction	Cm3	15,947
Volume of Control Fraction	Cm3	20,380

3-Relative Density Calculation

Density of Control Fraction	gm/Cm3	2.231
Modified Proctor	gm/Cm3	2.250
Compaction	%	99.2%
Pass/Fail	95%(min.)	Pass

contractor



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الهيئة القومية للإزفاق

DATA FOR ACPH PROJECT NO. 2020/10



EL-RAEID

EL-RAEID ENGINEERING & CONSULTING

الرائد للإستشارات الهندسية



project	Eleelectric Express Train	Date of Sample	6/8/2023
Company	الغازى	Date of Report.	7/8/2023
Station	445+140 to 445+200	Level	-14.5 M

**Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16**

1- Mass of Materials

Item	Unit	Value
Mass of total Wet Matrials	gm	90,834
Moistur Content of total Matrials	%	5.2
Mass of Wet OverSize Fraction	gm	41,961
Moistur Content of OverSize Fraction	%	3.95
Mass of Dry OverSize Fraction	gm	40,303
Mass of Wet Control Fraction	gm	48,873
Moistur Content of Control Fraction	%	5.87
Mass of Dry Control Fraction	gm	46,004

2- Volume of the Pit

Item	Unit	Value
Mass of Calibrated Sand in pit and Tamplate	gm	76,220
Mass of Calibrated Sand in Tamplate	gm	20,409
Mass of Calibrated Sand in pit	gm	55,811
Density of Calibrated Sand	gm/Cm3	1.49
Volume of the Pit	Cm3	37,457
Specific Gravity of Oversize Fraction	gm/Cm3	2.51
Volume of Oversize Fraction	Cm3	16,717
Volume of Control Fraction	Cm3	20,740

3-Relative Density Calculation

Density of Control Fraction	gm/Cm3	2.240
Modified Proctor	gm/Cm3	2.250
Compaction	%	99.6%
Pass/Fail	95%(min.)	Pass

contractor



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الهيئة القومية للإنفاق

SATFAY & ASSOCIATES



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ESTABLISHED ENGINEERING CONSULTANTS
الرائد للاستشارات الهندسية



project	Elelectric Express Train	Date of Sample	6/8/2023
Company	الغازى	Date of Report.	7/8/2023
Station	445+270 to 445+320	Level	-14.5 M

**Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16**

1- Mass of Materials

Item	Unit	Value
Mass of total Wet Matrials	gm	91,870
Moistur Content of total Matrials	%	5.12
Mass of Wet OverSize Fraction	gm	42,391
Moistur Content of OverSize Fraction	%	3.57
Mass of Dry Oversize Fraction	gm	40,877
Mass of Wet Control Fraction	gm	49,479
Moistur Content of Control Fraction	%	6
Mass of Dry Control Fraction	gm	46,510

2- Volume of the Pit

Item	Unit	Value
Mass of Calibrated Sand in pit and Tamplate	gm	77,248
Mass of Calibrated Sand in Tamplate	gm	20,411
Mass of Calibrated Sand in pit	gm	56,837
Density of Calibrated Sand	gm/Cm3	1.49
Volume of the Pit	Cm3	38,145
Specific Gravity of Oversize Fraction	gm/Cm3	2.519
Volume of Oversize Fraction	Cm3	16,828
Volume of Control Fraction	Cm3	21,317

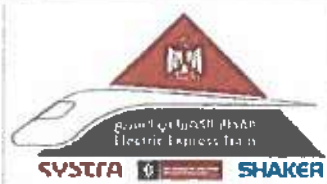
3-Relative Density Calculation

Density of Control Fraction	gm/Cm3	2.208
Modified Proctor	gm/Cm3	2.250
Compaction	%	98.1%
Pass/Fail	95%(min.)	Pass

contractor



الهيئة القومية للإنفاق



Project	Elelectric Express Train	Date of Sample	13/8/2023
Company	الغازي	Date of Report.	14/8/2023
Station	444+910 to 444+980	Level	-16.5 M

**Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16**

1 - Mass of Materials

Item	Unit	Value
Mass of total Wet Matrials	gm	84,917
Moistur Content of total Matrials	%	5.15
Mass of Wet OverSize Fraction	gm	40,824
Moistur Content of OverSize Fraction	%	3.48
Mass of Dry OverSize Fraction	gm	39,403
Mass of Wet Control Fraction	gm	44,093
Moistur Content of Control Fraction	%	6.21
Mass of Dry Control Fraction	gm	41,354

2- Volume of the Pit

Item	Unit	Value
Mass of Calibrated Sand in pit and Tamplate	gm	72,527
Mass of Calibrated Sand in Tamplate	gm	20,433
Mass of Calibrated Sand in pit	gm	52,094
Density of Calibrated Sand	gm/Cm3	1.49
Volume of the Pit	Cm3	34,963
Specific Gravity of Oversize Fraction	gm/Cm3	2.492
Volume of Oversize Fraction	Cm3	16,382
Volume of Control Fraction	Cm3	18,581

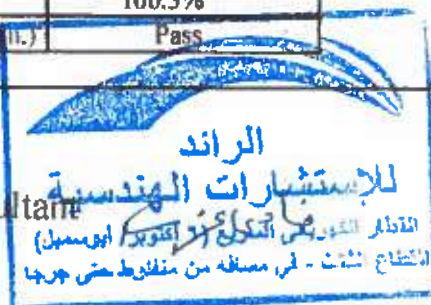
3-Relative Density Calculation

Density of Control Fraction	gm/Cm3	2.256
Modified Proctor	gm/Cm3	2.250
Compaction	%	100.3%
Pass/Fail	95%(m.l.)	Pass

contractor



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الهيئة القومية للإستشارات



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الرائد للإستشارات الهندسية



Project	Electric Express Train	Date of Sample	12/8/2023
Company	الغازى	Date of Report.	13/8/2023
Station	445+320 to 445+380	Level	-14.5 M

**Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16**

Mass of Materials

Item	Unit	Value
Mass of total Wet Materials	gm	80,791
Moistur Content of total Materials	%	5.18
Mass of Wet OverSize Fraction	gm	36,004
Moistur Content of OverSize Fraction	%	3.56
Mass of Dry Oversize Fraction	gm	34,722
Mass of Wet Control Fraction	gm	44,787
Moistur Content of Control Fraction	%	6.03
Mass of Dry Control Fraction	gm	42,086

Volume of the Pit

Item	Unit	Value
Mass of Calibrated Sand in pit and Tamplate	gm	70,326
Mass of Calibrated Sand in Tamplate	gm	20,417
Mass of Calibrated Sand in pit	gm	49,909
Density of Calibrated Sand	gm/Cm3	1.49
Volume of the Pit	Cm3	33,496
Specific Gravity of Oversize Fraction	gm/Cm3	2.506
Volume of Oversize Fraction	Cm3	14,367
Volume of Control Fraction	Cm3	19,129

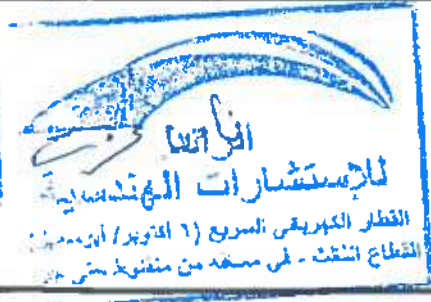
Relative Density Calculation

Density of Control Fraction	gm/Cm3	2.226
Modified Proctor	gm/Cm3	2.250
Compaction	%	98.9%
Pass/Fail	95%(min.)	Pass

contractor



Consultant



الهيئة القومية للإنفاق



project	Electric Express Train	Date of Sample	13/8/2023
Company	القازى	Date of Report.	14/8/2023
Station	444+860 to 444+910	Level	-16.5 M

Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16

1- Mass of Materials

Item	Unit	Value
Mass of total Wet Materials	gm	97,014
Moistur Content of total Materials	%	4.8
Mass of Wet OverSize Fraction	gm	46,823
Moistur Content of OverSize Fraction	%	3.1
Mass of Dry OverSize Fraction	gm	45,371
Mass of Wet Control Fraction	gm	50,191
Moistur Content of Control Fraction	%	5.96
Mass of Dry Control Fraction	gm	47,199

2- Volume of the Pit

Item	Unit	Value
Mass of Calibrated Sand in pit and Tamplate	gm	80,830
Mass of Calibrated Sand in Tamplate	gm	20,433
Mass of Calibrated Sand in pit	gm	60,397
Density of Calibrated Sand	gm/Cm3	1.49
Volume of the Pit	Cm3	40,535
Specific Gravity of Oversize Fraction	gm/Cm3	2.487
Volume of Oversize Fraction	Cm3	18,827
Volume of Control Fraction	Cm3	21,708

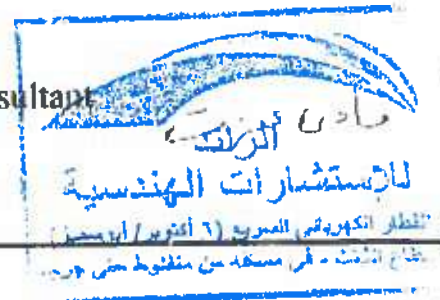
3-Relative Density Calculation

Density of Control Fraction	gm/Cm3	2.206
Modified Proctor	gm/Cm3	2.250
Compaction	%	98.0%
Pass/Fail	95%(min.)	Pass

contractor



Consultant



الهيئة القومية للإنفاق

ASPHALT PAVING CONSULTANTS



EL-RAEID
ENGINEERING CONSULTANTS
الرائد للاستشارات الهندسية



SYSTRA SHAKER



وزارة النقل
الهيئة العامة للنقل والمواصلات
والنقل البري

project	Electric Express Train	Date of Sample	8/8/2023
Company	الغازي	Date of Report.	9/8/2023
Station	445+050 to 445+080	Level	-16.5 M

Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16

1- Mass of Materials

Item	Unit	Value
Mass of total Wet Materials	gm	92,867
Moistur Content of total Materials	%	5.26
Mass of Wet OverSize Fraction	gm	43,822
Moistur Content of OverSize Fraction	%	3.7
Mass of Dry OverSize Fraction	gm	42,200
Mass of Wet Control Fraction	gm	49,045
Moistur Content of Control Fraction	%	6.17
Mass of Dry Control Fraction	gm	46,018

2- Volume of the Pit

Item	Unit	Value
Mass of Calibrated Sand in pit and Tamplate	gm	77,262
Mass of Calibrated Sand in Tamplate	gm	20,412
Mass of Calibrated Sand in pit	gm	56,850
Density of Calibrated Sand	gm/Cm3	1.49
Volume of the Pit	Cm3	38,154
Specific Gravity of OverSize Fraction	gm/Cm3	2.530
Volume of OverSize Fraction	Cm3	17,320
Volume of Control Fraction	Cm3	20,834

3-Relative Density Calculation

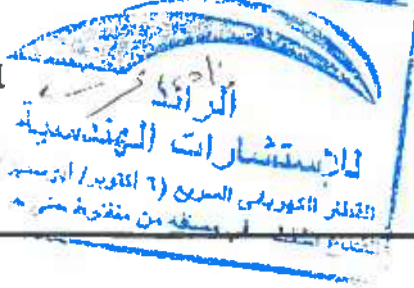
Density of Control Fraction	gm/Cm3	2.236
Modified Proctor	gm/Cm3	2.250
Compaction	%	99.4%
Pass/Fail	95%(min.)	Pass

contractor

Tarek Elazab



Consultant



الهيئة العامة للإعطاء



project	Electric Express Train	Date of Sample	15/8/2023
Company	الغازي	Date of Report.	16/8/2023
Station	445+200 to 445+270	Level	-14 M

**Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16**

1- Mass of Materials

Item	Unit	Value
Mass of total Wet Materials	gm	90,471
Moistur Content of total Materials	%	4.96
Mass of Wet OverSize Fraction	gm	43,874
Moistur Content of OverSize Fraction	%	3.42
Mass of Dry OverSize Fraction	gm	42,373
Mass of Wet Control Fraction	gm	46,597
Moistur Content of Control Fraction	%	5.97
Mass of Dry Control Fraction	gm	43,815

2- Volume of the Pit

Item	Unit	Value
Mass of Calibrated Sand in pit and Tamplate	gm	76,596
Mass of Calibrated Sand in Tamplate	gm	20,451
Mass of Calibrated Sand in pit	gm	56,145
Density of Calibrated Sand	gm/Cm3	1.49
Volume of the Pit	Cm3	37,681
Specific Gravity of OverSize Fraction	gm/Cm3	2.482
Volume of OverSize Fraction	Cm3	17,682
Volume of Control Fraction	Cm3	19,998

3-Relative Density Calculation

Density of Control Fraction	gm/Cm3	2.219
Modified Proctor	gm/Cm3	2.250
Compaction	%	98.6%
Pass/Fail	95%(min.)	Pass

contractor



Consultant





project	Elelectric Express Train	Date of Sample	15/8/2023
Company	الغازى	Date of Report.	16/8/2023
Station	445+140 to 445+200	Level	-14 M

**Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16**

1- Mass of Materials

Item	Unit	Value
Mass of total Wet Matrials	gm	96,739
Moistur Content of total Matrials	%	5.16
Mass of Wet OverSize Fraction	gm	43,805
Moistur Content of OverSize Fraction	%	3.84
Mass of Dry Oversize Fraction	gm	42,122
Mass of Wet Control Fraction	gm	52,934
Moistur Content of Control Fraction	%	5.78
Mass of Dry Control Fraction	gm	49,874

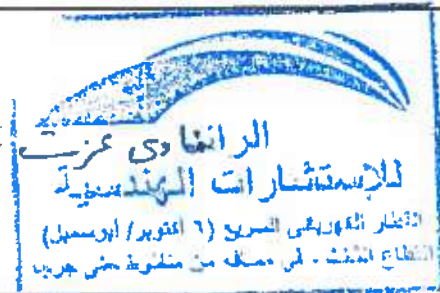
2- Volume of the Pit

Item	Unit	Value
Mass of Calibrated Sand in pit and Tamplate	gm	80,419
Mass of Calibrated Sand in Tamplate	gm	20,451
Mass of Calibrated Sand in pit	gm	59,968
Density of Calibrated Sand	gm/Cm3	1.49
Volume of the Pit	Cm3	40,247
Specific Gravity of Oversize Fraction	gm/Cm3	2.473
Volume of Oversize Fraction	Cm3	17,713
Volume of Control Fraction	Cm3	22,534

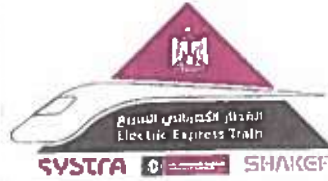
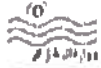
3-Relative Density Calculation

Density of Control Fraction	gm/Cm3	2.234
Modified Proctor	gm/Cm3	2.250
Compaction	%	99.3%
Pass/Fail	95%(min.)	Pass

contractor **TAREK ELSEYED Consultant**



الهيئة القومية للإنفاق



project	Electric Express Train	Date of Sample	15/8/2023
Company	الغازى	Date of Report.	16/8/2023
Station	445+050 to 445+100	Level	-16 M

**Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16**

1- Mass of Materials

Item	Unit	Value
Mass of total Wet Materials	gm	80,812
Moistur Content of total Materials	%	4.22
Mass of Wet OverSize Fraction	gm	38,913
Moistur Content of OverSize Fraction	%	2.96
Mass of Dry OverSize Fraction	gm	37,761
Mass of Wet Control Fraction	gm	41,899
Moistur Content of Control Fraction	%	5.06
Mass of Dry Control Fraction	gm	39,778

2- Volume of the Pit

Item	Unit	Value
Mass of Calibrated Sand in pit and Tamplate	gm	71,068
Mass of Calibrated Sand in Tamplate	gm	20,483
Mass of Calibrated Sand in pit	gm	50,585
Density of Calibrated Sand	gm/Cm3	1.49
Volume of the Pit	Cm3	33,949
Specific Gravity of Oversize Fraction	gm/Cm3	2.517
Volume of Oversize Fraction	Cm3	15,460
Volume of Control Fraction	Cm3	18,489

3-Relative Density Calculation

Density of Control Fraction	gm/Cm3	2.174
Modified Proctor	gm/Cm3	2.250
Compaction	%	96.6%
Pass/Fail	95%(min.)	Pass

contractor



Consultant



الهيئة القومية للإنتاج

national authority for production



الغازي للمقاولات المدنية



project	Electric Express Train			Date of Sample	17/8/2023
Company	الغازي			Date of Report.	19/8/2023
Station	445+270	to	445+380	Level	-14 M

Field Density Test By Sand Replacement Test According to ASTM D-4914 M -16

1- Mass of Materials

Item	Unit	Value (1)	Value (2)
Mass of total Wet Matrials	gm	86,913	92,736
Moistur Content of total Matrials	%	4.9	4.52
Mass of Wet OverSize Fraction	gm	39,041	43,109
Moistur Content of OverSize Fraction	%	3.18	3.08
Mass of Dry OverSize Fraction	gm	37,799	41,781
Mass of Wet Control Fraction	gm	47,872	49,627
Moistur Content of Control Fraction	%	5.87	5.41
Mass of Dry Control Fraction	gm	45,062	46,942

2- Volume of the Pit

Item	Unit	Value(1)	Value(2)
Mass of Calibrated Sand in pit and Tamplate	gm	74,903	78,781
Mass of Calibrated Sand in Tamplate	gm	20,462	20,462
Mass of Calibrated Sand in pit	gm	54,441	58,319
Density of Calibrated Sand	gm/Cm3	1.49	1.49
Volume of the Pit	Cm3	36,537	39,140
Specific Gravity of Oversize Fraction	gm/Cm3	2.463	2.469
Volume of Oversize Fraction	Cm3	15,851	17,460
Volume of Control Fraction	Cm3	20,687	21,680

3-Relative Density Calculation

Density of Control Fraction	gm/Cm3	2.206	2.19
Modified Proctor	gm/Cm3	2.25	2.25
Compaction	%	98.04%	97.33%
Pass/Fail	95%(min.)	Pass	Pass

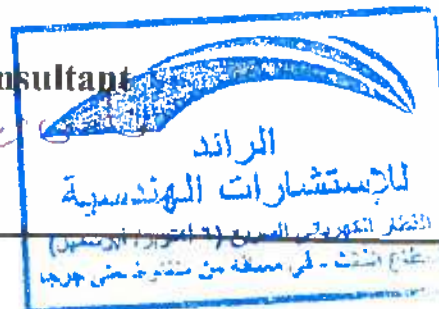
contractor

Tarek Elsayed

19/8/2023



Consultant





project	Electric Express Train	Date of Sample	22/8/2023
Company	الغازي	Date of Report.	23/8/2023
Station	444+860 to 444+910	Level	-16 M

Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16

1- Mass of Materials

Item	Unit	Value
Mass of total Wet Materials	gm	68,070
Moistur Content of total Materials	%	4.74
Mass of total Dry Materials	gm	64986
Mass of Wet OverSize Fraction	gm	32,418
Moistur Content of OverSize Fraction	%	3.1
Mass of Dry OverSize Fraction	gm	31,413
Mass of Wet Control Fraction	gm	35,652
Moistur Content of Control Fraction	%	5.83
Mass of Dry Control Fraction	gm	33,573

2- Volume of the Pit

Item	Unit	Value
Mass of Calibrated Sand in pit and Tamplate	gm	63,402
Mass of Calibrated Sand in Tamplate	gm	20,417
Mass of Calibrated Sand in pit	gm	42,985
Density of Calibrated Sand	gm/Cm3	1.49
Volume of the Pit	Cm3	28,849
Specific Gravity of Oversize Fraction	gm/Cm3	2.436
Volume of Oversize Fraction	Cm3	13,308
Volume of Control Fraction	Cm3	15,541

3-Relative Density Calculation

Density of Control Fraction	gm/Cm3	2.190
Modified Proctor	gm/Cm3	2.250
Compaction	%	97.3%
Pass/Fail	95%(min.)	Pass

contractor



الهيئة القومية للإنفاق



الغازي للمقاولات العمومية



project	Eleelectric Express Train			Date of Sample	29/8/2023
Company	الغازي			Date of Report.	29/8/2023
Station	444+910	(c)	445+050	Level	-15.5 M

**Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16**

1- Mass of Materials

Item	Unit	Value (1)	Value (2)
Mass of total Wet Matrials	gm	89,576	81,968
Moistur Content of total Matrials	%	4.78	4.54
Mass of total Dry Matrials	gm	85,487	78,411
Mass of Wet OverSize Fraction	gm	40,028	34,657
Moistur Content of OverSize Fraction	%	3.12	3.09
Mass of Dry OverSize Fraction	gm	38,817	33,617
Mass of Wet Control Fraction	gm	49,548	47,311
Moistur Content of Control Fraction	%	6.16	5.61
Mass of Dry Control Fraction	gm	46,670	44,794

2- Volume of the Pit

Item	Unit	Value(1)	Value(2)
Mass of Calibrated Sand in pit and Tamplate	gm	78,374	73,619
Mass of Calibrated Sand in Tamplate	gm	20,511	20,511
Mass of Calibrated Sand in pit	gm	57,863	53,108
Density of Calibrated Sand	gm/Cm3	1.49	1.49
Volume of the Pit	Cm3	38,834	35,643
Specific Gravity of Oversize Fraction	gm/Cm3	2.376	2.379
Volume of Oversize Fraction	Cm3	16,847	14,568
Volume of Control Fraction	Cm3	21,987	21,075

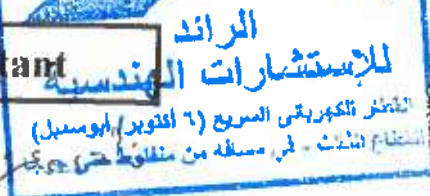
3-Relative Density Calculation

Density of Control Fraction	gm/Cm3	2.151	2.147
Modified Proctor	gm/Cm3	2.24	2.24
Compeaction	%	96.01%	95.87%
Pass/Fail	95%(min.)	Pass	Pass

contractor



Consultant





project	Electric Express Train	Date of Sample	28/8/2023
Company	الغازي	Date of Report.	29/8/2023
Station	444+860 to 444+910	Level	-15.5 M

Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16

1- Mass of Materials

Item	Unit	Value
Mass of total Wet Materials	gm	91,932
Moistur Content of total Materials	%	4.76
Mass of total Dry Materials	gm	87753
Mass of Wet OverSize Fraction	gm	38,476
Moistur Content of OverSize Fraction	%	3.06
Mass of Dry OverSize Fraction	gm	37,333
Mass of Wet Control Fraction	gm	53,456
Moistur Content of Control Fraction	%	5.68
Mass of Dry Control Fraction	gm	50,420

2- Volume of the Pit

Item	Unit	Value
Mass of Calibrated Sand in pit and Tamplate	gm	79,637
Mass of Calibrated Sand in Tamplate	gm	20,398
Mass of Calibrated Sand in pit	gm	59,239
Density of Calibrated Sand	gm/Cm3	1.49
Volume of the Pit	Cm3	39,758
Specific Gravity of Oversize Fraction	gm/Cm3	2.381
Volume of Oversize Fraction	Cm3	16,160
Volume of Control Fraction	Cm3	23,598

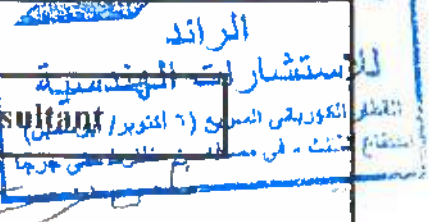
3-Relative Density Calculation

Density of Control Fraction	gm/Cm3	2.162
Modified Proctor	gm/Cm3	2.240
Compaction	%	96.5%
Pass/Fail	95%(min.)	Pass

contractor



Consultant





project	Electric Express Train	Date of Sample	29/8/2023
Company	الغازي	Date of Report.	29/8/2023
Station	445+050 to 445+120	Level	-15.5 M

**Field Density Test By Sand Replacement Test According to
ASTM D-4914 M-16**

1- Mass of Materials

Item	Unit	Value
Mass of total Wet Materials	gm	75,208
Moistur Content of total Materials	%	4.14
Mass of total Dry Materials	gm	72216
Mass of Wet OverSize Fraction	gm	32,185
Moistur Content of OverSize Fraction	%	3.06
Mass of Dry OverSize Fraction	gm	31,229
Mass of Wet Control Fraction	gm	43,023
Moistur Content of Control Fraction	%	5.74
Mass of Dry Control Fraction	gm	40,987

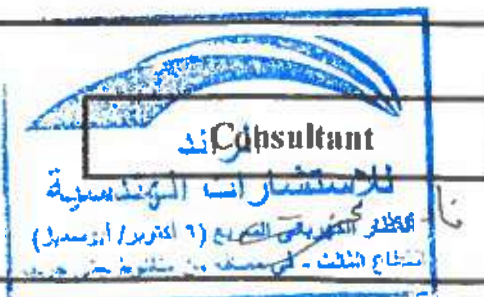
2- Volume of the Pit

Item	Unit	Value
Mass of Calibrated Sand in pit and Tamplate	gm	68,223
Mass of Calibrated Sand in Tamplate	gm	20,477
Mass of Calibrated Sand in pit	gm	47,746
Density of Calibrated Sand	gm/Cm3	1.49
Volume of the Pit	Cm3	32,044
Specific Gravity of Oversize Fraction	gm/Cm3	2.397
Volume of Oversize Fraction	Cm3	13,427
Volume of Control Fraction	Cm3	18,617

3-Relative Density Calculation

Density of Control Fraction	gm/Cm3	2.219
Modified Proctor	gm/Cm3	2.240
Compaction	%	99.1%
Pass/Fail	95%(min.)	Pass

contractor





project	Eleelectric Express Train			Date of Sample	18/9/2023
Company	الغازى			Date of Report.	19/9/2023
Station	444+960	to	445+050	Level	-14.5 M

**Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16**

1- Mass of Materials

Item	Unit	Value (1)	Value (2)
Mass of total Wet Matrials	gm	97,432	100,453
Moistur Content of total Matrials	%	4.28	4.15
Mass of total Dry Matrials	gm	93,430	96,450
Mass of Wet OverSize Fraction	gm	43,167	46,071
Moistur Content of OverSize Fraction	%	2.74	2.82
Mass of Dry OverSize Fraction	gm	42,014	44,809
Mass of Wet Control Fraction	gm	54,265	54,382
Moistur Content of Control Fraction	%	5.54	5.31
Mass of Dry Control Fraction	gm	51,416	51,641

2- Volume of the Pit

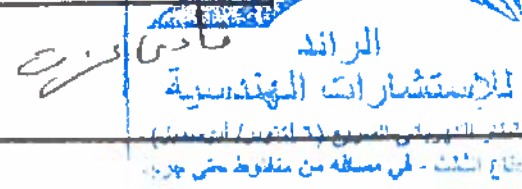
Item	Unit	Value(1)	Value(2)
Mass of Calibrated Sand in pit and Tamplate	gm	81,746	83,271
Mass of Calibrated Sand in Tamplate	gm	20,364	20,416
Mass of Calibrated Sand in pit	gm	61,382	62,855
Density of Calibrated Sand	gm/Cm3	1.49	1.49
Volume of the Pit	Cm3	41,196	42,185
Specific Gravity of Oversize Fraction	gm/Cm3	2.412	2.418
Volume of Oversize Fraction	Cm3	17,897	19,053
Volume of Control Fraction	Cm3	23,299	23,132

3-Relative Density Calculation

Density of Control Fraction	gm/Cm3	2.207	2.232
Modified Proctor	gm/Cm3	2.273	2.273
Compaction	%	97.1%	98.21%
Pass/Fail	95%(min.)	Pass	Pass



Consultant





project	Electric Express Train	Date of Sample	17/9/2023
Company	الغازي	Date of Report.	18/9/2023
Station	445+050 to 445+120	Level	-14.5 M

**Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16**

1- Mass of Materials

Item	Unit	Value
Mass of total Wet Matrials	gm	91,653
Moistur Content of total Matrials	%	4.15
Mass of total Dry Matrials	gm	88001
Mass of Wet OverSize Fraction	gm	43,267
Moistur Content of OverSize Fraction	%	2.69
Mass of Dry OverSize Fraction	gm	42,125
Mass of Wet Control Fraction	gm	48,386
Moistur Content of Control Fraction	%	5.47
Mass of Dry Control Fraction	gm	45,876

2- Volume of the Pit

Item	Unit	Value
Mass of Calibrated Sand in pit and Tamplate	gm	78,039
Mass of Calibrated Sand in Tamplate	gm	20,419
Mass of Calibrated Sand in pit	gm	57,620
Density of Calibrated Sand	gm/Cm3	1.49
Volume of the Pit	Cm3	38,671
Specific Gravity of Oversize Fraction	gm/Cm3	2.453
Volume of Oversize Fraction	Cm3	17,638
Volume of Control Fraction	Cm3	21,033

3-Relative Density Calculation

Density of Control Fraction	gm/Cm3	2.209
Modified Proctor	gm/Cm3	2.273
Compaction	%	97.2%
Pass/Fail	95%(min.)	Pass

contractor	EL GHAZY CO. الغازي للمقاولات الهندسية	Consultant للإستشارات الهندسية م. د. طارق السيد (٦ أكتوبر/ أوسمبل) القطاع الثالث - في مسافة من مقادير مصر
Tarek El		



project	Eleelectric Express Train			Date of Sample	9/9/2023
Company	الغازى			Date of Report.	10/9/2023
Station	444+910	LD	445+050	Level	-15 M

**Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16**

1- Mass of Materials

Item	Unit	Value (1)	Value (2)
Mass of total Wet Matrials	gm	96,418	91,374
Moistur Content of total Matrials	%	4.36	4.31
Mass of total Dry Matrials	gm	92,390	87,601
Mass of Wet OverSize Fraction	gm	42,182	39,761
Moistur Content of OverSize Fraction	%	2.84	2.96
Mass of Dry Oversize Fraction	gm	41,018	38,620
Mass of Wet Control Fraction	gm	54,236	51,613
Moistur Content of Control Fraction	%	5.58	5.37
Mass of Dry Control Fraction	gm	51,372	48,981

2- Volume of the Pit

Item	Unit	Value(1)	Value(2)
Mass of Culibrated Sand in pit and Tamplate	gm	81,039	78,132
Mass of Calibrated Sand in Tamplate	gm	20,316	20,316
Mass of Calibrated Sand in pit	gm	60,723	57,816
Density of Calibrated Sand	gm/Cm3	1.49	1.49
Volume of the Pit	Cm3	40,754	38,803
Specific Gravity of Oversize Fraction	gm/Cm3	2.451	2.458
Volume of Oversize Fraction	Cm3	17,210	16,176
Volume of Control Fraction	Cm3	23,544	22,627

3-Relative Density Calculation

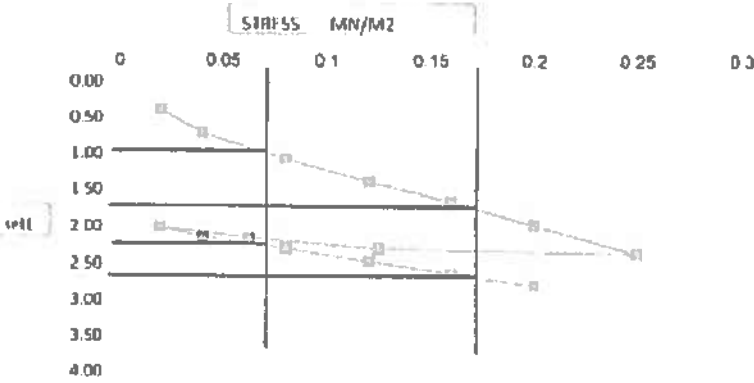
Density of Control Fraction	gm/Cm3	2.207	2.187
Modified Proctor	gm/Cm3	2.273	2.273
Compaction	%	97.1%	96.21%
Pass/Fail	95%(min.)	Pass	Pass

contractor	Consultant
Tarek	الرائفادى للإستشارات الهندسية القطار الكهربى السريع (٦ أكتوبر/أكتوبر) القنطرة الجديدة - في منطقة من منطقة حى جازي

 الغازي للمقاولات المدنية	Electric Express Train - HSR					
	From october to Aswan					
	OCTOBER ASWAN ELECTRIC EXPRESS TRAIN (HIGH SPEED RAIL)					
Request no.:	From	444+910	To	445+050	DATE	9/9/2023
Description :	طبقة ردم على منحدر 15%				LAB No.	1
Name Company	(الغازي)					

plate load test DIN 18314				
stress mn/m2	bar	Dial Reading 1	Dial Reading 2	Average Settlement.
0	0	21.43	20.77	0.00
0.020	17.5	21.07	20.32	0.41
0.040	35	20.81	19.94	0.73
0.080	69.9	20.50	19.55	1.08
0.120	104.8	20.22	19.21	1.39
0.160	139.9	20.00	18.89	1.66
0.200	174.8	19.79	18.47	1.97
0.250	218.5	19.48	18.03	2.36
0.125	108.3	19.51	18.10	2.30
0.0625	54.6	19.65	18.24	2.18
0.020	17.5	19.80	18.39	2.01
0.040	35	19.71	18.2	2.14
0.080	69.9	19.58	18.04	2.29
0.120	104.8	19.41	17.87	2.46
0.160	139.9	19.33	17.62	2.63
0.200	174.8	19.18	17.46	2.78

0.02	0.41
0.04	0.73
0.08	1.08
0.12	1.39
0.16	1.66
0.2	1.97
0.25	2.36
0.125	2.30
0.0625	2.18
0.02	2.01
0.04	2.14
0.08	2.29
0.120	2.46
0.16	2.63
0.2	2.78



	σ	s
0.7	0.175	1.73
0.3	0.075	0.99
0.7	0.175	2.68
0.3	0.075	2.27

E_{v1}	60.8 Mn/m2
E_{v2}	109.8 Mn/m2

E_{v2}/E_{v1}	1.8
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M.E./CONTRACTOR	Tarek Elsayed	M.E./CONSULTANT	غازي
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الهيئة القومية للإنتاج



El-RAEID
RAEID ENGINEERING CONSULTANTS
الرائد للإستشارات الهندسية



الغازي للمقاولات العربية



وزارة النقل
الهيئة العامة للنقل والبنية التحتية

project	Eleetric Express Train	Date of Sample	9/9/2023
Company	الغازي	Date of Report.	10/9/2023
Station	444+860 to 444+910	Level	-15 M

**Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16**

1- Mass of Materials

Item	Unit	Value
Mass of total Wet Matrials	gm	86,028
Moistur Content of total Matrials	%	4.38
Mass of total Dry Matrials	gm	82421
Mass of Wet OverSize Fraction	gm	37,273
Moistur Content of OverSize Fraction	%	2.99
Mass of Dry OverSize Fraction	gm	36,192
Mass of Wet Control Fraction	gm	48,755
Moistur Content of Control Fraction	%	5.46
Mass of Dry Control Fraction	gm	46,229

2- Volume of the Pit

Item	Unit	Value
Mass of Calibrated Sand in pit and Tamplate	gm	74,457
Mass of Calibrated Sand in Tamplate	gm	20,388
Mass of Calibrated Sand in pit	gm	54,069
Density of Calibrated Sand	gm/Cm3	1.49
Volume of the Pit	Cm3	36,288
Specific Gravity of Oversize Fraction	gm/Cm3	2.458
Volume of Oversize Fraction	Cm3	15,164
Volume of Control Fraction	Cm3	21,124

3-Relative Density Calculation

Density of Control Fraction	gm/Cm3	2.211
Modlified Proctor	gm/Cm3	2.273
Compaction	%	97.3%
Pass/Fail	95%(min.)	Pass

contractor

Tarek El Sayed

Consultant

الإستشارات الهندسية
الغازي للمقاولات العربية
القطر الكهربائي السريع
الخط 1 (المنطقة 1)



الغازي للمقاولات الهندسية

Electric Express Train - HSR

From october to Aswan

OCTOBER ASWAN ELECTRIC EXPRESS
TRAIN (HIGH SPEED RAIL)

الهيئة القومية للإنفاق



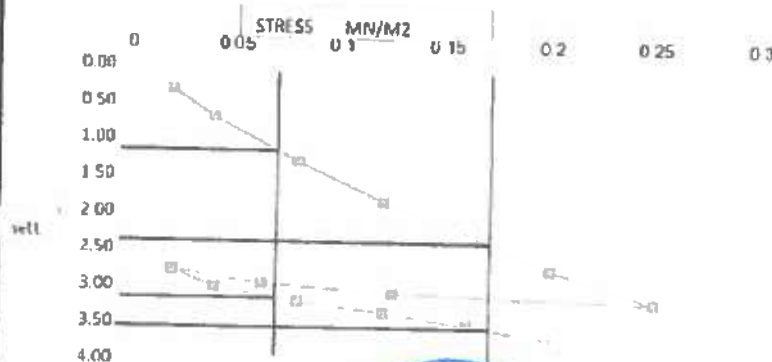
El-RAEID
Engineering & Construction
الرائد للاستشارات الهندسية

Request no.:	From	444+850	to	444+910	DATE	9/9/2023
Description :	بطانة ردم على منحسوب - 15 متر					LAB No: 1
Name Company	الغازي					

plate load test DIN 18314

stress mn/m2	bar	Dial Reading 1	Dial Reading 2	Average Settlement.
0	0	20.34	19.08	0.00
0.020	17.5	19.94	19.41	0.33
0.040	35	19.53	19.08	0.70
0.080	69.9	18.08	18.43	1.31
0.120	104.8	18.37	17.98	1.84
0.160	139.9	17.04	17.56	2.26
0.200	174.8	17.46	17.07	2.75
0.250	218.5	16.91	16.73	3.19
0.125	109.3	17.02	16.84	3.08
0.0625	54.6	17.14	16.97	2.95
0.020	17.5	17.29	17.16	2.79
0.040	35	17.02	16.88	3.01
0.080	69.9	16.71	16.89	3.21
0.120	104.8	16.80	16.73	3.35
0.160	139.9	16.47	16.52	3.52
0.200	174.8	16.38	16.27	3.69

0.02	0.33
0.04	0.70
0.08	1.31
0.12	1.84
0.16	2.26
0.2	2.75
0.25	3.19
0.125	3.08
0.0625	2.96
0.02	2.79
0.04	3.01
0.08	3.21
0.120	3.35
0.16	3.52
0.2	3.69

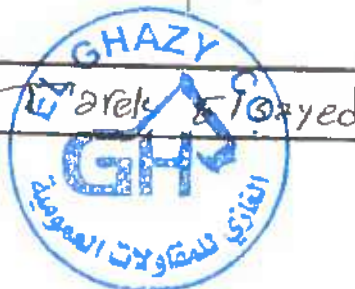


	s
0.7 σ_1	0.175 2.40
0.3 σ_2	0.075 1.17
0.7 σ_2	0.175 3.58
0.3 σ_2	0.075 3.18

Ev1 =	36.8 Mn/m2
Ev2 =	1125 Mn/m2

Ev2/Ev1 = 3.1

ME/CONTRACTOR



للإستشارات الهندسية
إ.ع.الرائد
الرائد للاستشارات الهندسية
الرائد للاستشارات الهندسية
الرائد للاستشارات الهندسية

الهيئة العامة للإتفاق



EL-RAEID
FIRM OF ENGINEERS & CONSULTANTS
الرائد للاستشارات الهندسية



الغازي للمقاولات العمومية



SVS TRA SHAKER



وزارة النقل
المسؤول العام للنقل والبنية التحتية

project	Electric Express Train	Date of Sample	6/9/2023
Company	الغازي	Date of Report.	6/9/2023
Station	445+050 to 445+120	Level	-15 M

Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16

1- Mass of Materials

Item	Unit	Value
Mass of total Wet Matrials	gm	93,162
Moistur Content of total Matrials	%	4.3
Mass of total Dry Matrials	gm	89322
Mass of Wet OverSize Fraction	gm	43,180
Moistur Content of OverSize Fraction	%	2.74
Mass of Dry OverSize Fraction	gm	42,029
Mass of Wet Control Fraction	gm	49,982
Moistur Content of Control Fraction	%	5.69
Mass of Dry Control Fraction	gm	47,293

2- Volume of the Pit

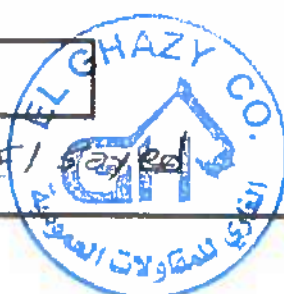
Item	Unit	Value
Mass of Calibrated Sand in pit and Tamplate	gm	79,812
Mass of Calibrated Sand in Tamplate	gm	20,607
Mass of Calibrated Sand in pit	gm	59,205
Density of Calibrated Sand	gm/Cm3	1.49
Volume of the Pit	Cm3	39,735
Specific Gravity of Oversize Fraction	gm/Cm3	2.436
Volume of Oversize Fraction	Cm3	17,726
Volume of Control Fraction	Cm3	22,009

3-Relative Density Calculation

Density of Control Fraction	gm/Cm3	2.177
Modified Proctor	gm/Cm3	2.273
Compaction	%	95.8%
Pass/Fail	95%(min.)	Pass

contractor

Tarek El Ghazy



Consultant

الرائد

الرائد للاستشارات الهندسية
المقر الرئيسي: المربع (٦) أكتوبر (البريد)
القطاع الثالث - طريق مصر - القاهرة - حي جيزة



Electric Express Train - HSR

From october to Aswan

OCTOBER ASWAN ELECTRIC EXPRESS
TRAIN (HIGH SPEED RAIL)

الهيئة القومية للإنفاق



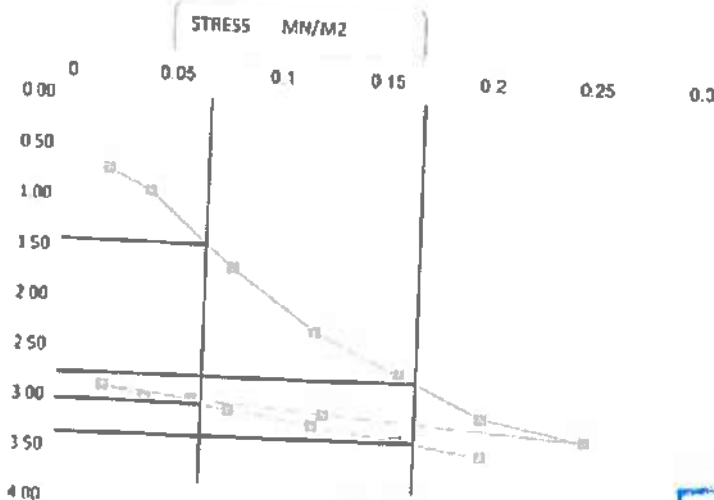
وزارة التخطيط
مصر
El-RAEID
رأى للاستشارات الهندسية

Request no :	From	445+050	to	445+120	DATE	6/9/2023
Description :	طبقة ردم على منسوب -15 متر					
Name Company	الغازي					LAB No : 1

plate load test DIN 18314

stress mn/m2	bar	Dial Reading 1	Dial Reading 2	Average Settlement.
0	0	20.58	20.08	0.00
0.020	17.5	20.09	19.08	0.73
0.040	35	19.62	19.13	0.95
0.080	69.9	18.81	18.48	1.69
0.120	104.8	18.23	17.84	2.29
0.160	139.9	17.98	17.28	2.69
0.200	174.8	17.73	16.71	3.10
0.250	218.5	17.64	16.39	3.31
0.125	109.3	17.79	16.64	3.11
0.0625	54.6	17.98	16.66	3.00
0.020	17.5	18.17	16.69	2.89
0.040	35	18.04	16.63	2.99
0.080	69.9	17.88	16.59	3.09
0.120	104.8	17.78	16.45	3.22
0.160	139.9	17.63	16.32	3.35
0.200	174.8	17.47	16.20	3.49

0.02	0.73
0.04	0.95
0.08	1.69
0.12	2.29
0.16	2.69
0.2	3.10
0.25	3.31
0.125	3.11
0.0625	3.00
0.02	2.89
0.04	2.99
0.08	3.09
0.120	3.22
0.16	3.35
0.2	3.49

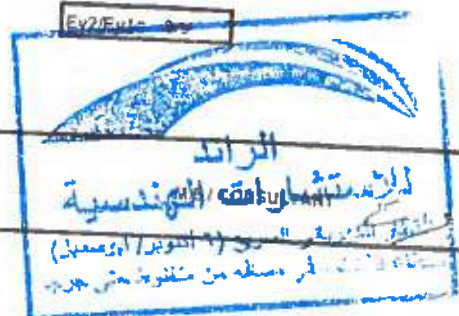


		s
0.7 u=	0.175	2.77
0.3 o=	0.075	1.45
0.7 o2=	0.175	3.37
0.3 o2=	0.075	3.03

Ev1=	34.1 Mn/m2
Ev2=	132.4 Mn/m2

Ev2/Ev1= 3.88

ME/CONTRACTOR





project	Eleelectric Express Train			Date of Sample	3/9/2023
Company	الغازى			Date of Report.	4/9/2023
Station	445+140	to	445+270	Level	-13.5 M

**Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16**

1- Mass of Materials

Item	Unit	Value (1)	Value (2)
Mass of total Wet Matrials	gm	92,247	88,672
Moistur Content of total Matrials	%	4.48	4.34
Mass of total Dry Matrials	gm	88,289	84,982
Mass of Wet OverSize Fraction	gm	35,967	34,219
Moistur Content of OverSize Fraction	%	2.986	2.78
Mass of Dry Oversize Fraction	gm	34,924	33,295
Mass of Wet Control Fraction	gm	56,280	54,453
Moistur Content of Control Fraction	%	5.46	5.35
Mass of Dry Control Fraction	gm	53,365	51,687

2- Volume of the Pit

Item	Unit	Value(1)	Value(2)
Mass of Calibrated Sand in pit and Tamplate	gm	79,152	76,373
Mass of Calibrated Sand in Tamplate	gm	20,482	20,482
Mass of Calibrated Sand in pit	gm	58,670	55,891
Density of Calibrated Sand	gm/Cm3	1.49	1.49
Volume of the Pit	Cm3	39,376	37,511
Specific Gravity of Oversize Fraction	gm/Cm3	2.445	2.453
Volume of Oversize Fraction	Cm3	14,710	13,950
Volume of Control Fraction	Cm3	24,666	23,561

3-Relative Density Calculation

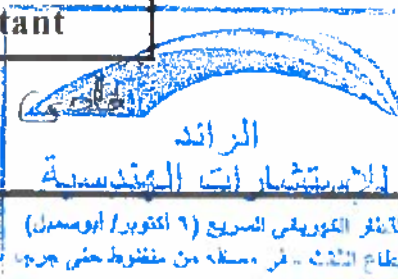
Density of Control Fraction	gm/Cm3	2.184	2.215
Modlified Proctor	gm/Cm3	2.273	2.273
Compaction	%	96.1%	97.45%
Pass/Fail	95%(min.)	Pass	Pass

contractor

Consultant



Signature of Consultant



التأشير الكورى في السريخ (6 أكتوبر / أوسمبل)
شطاح الشات - فر - مسلة من مشطوط حتى جردا



project	Elelectric Express Train			Date of Sample	2/9/2023
Company	الغازى			Date of Report.	3/9/2023
Station	445+270	to	445+400	Level	-13.5 M

**Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16**

1- Mass of Materials

Item	Unit	Value (1)	Value (2)
Mass of total Wet Materials	gm	87,765	84,062
Moistur Content of total Matirials	%	4.22	4.14
Mass of total Dry Matirials	gm	84,214	80,719
Mass of Wet OverSize Fraction	gm	41,837	37,469
Moistur Content of OverSize Fraction	%	3.09	2.86
Mass of Dry OverSize Fraction	gm	40,582	36,426
Mass of Wet Control Fraction	gm	45,928	46,593
Moistur Content of Control Fraction	%	5.26	5.19
Mass of Dry Control Fraction	gm	43,632	44,293

2- Volume of the Pit

Item	Unit	Value(1)	Value(2)
Mass of Calibrated Sand in pit and Tamplate	gm	74,829	73,680
Mass of Calibrated Sand in Tamplate	gm	20,469	20,469
Mass of Calibrated Sand in pit	gm	54,360	53,211
Density of Calibrated Sand	gm/Cm3	1.49	1.49
Volume of the Pit	Cm3	36,483	35,712
Specific Gravity of Oversize Fraction	gm/Cm3	2.457	2.436
Volume of Oversize Fraction	Cm3	17,028	15,381
Volume of Control Fraction	Cm3	19,455	20,331

3-Relative Density Calculation

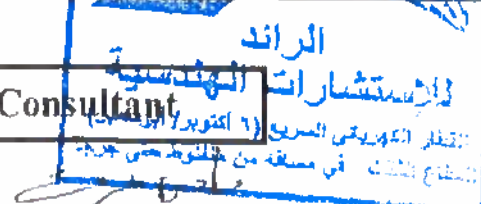
Density of Control Fraction	gm/Cm3	2.265	2.201
Modified Proctor	gm/Cm3	2.273	2.273
Compaction	%	99.7%	96.82%
Pass/Fail	95%(min.)	Pass	Pass

contractor

Tarek



Consultant





project	Eleelectric Express Train			Date of Sample	25/9/2023
Company	الغازي			Date of Report.	26/9/2023
Station	445+040	to	445+140	Level	-14 M

**Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16**

1- Mass of Materials

Item	Unit	Value (1)	Value (2)
Mass of total Wet Matrials	gm	96,739	101,273
Moistur Content of total Matrials	%	4.02	4.08
Mass of total Dry Matrials	gm	93,005	97,302
Mass of Wet OverSize Fraction	gm	44,624	45,186
Moistur Content of OverSize Fraction	%	2.49	2.64
Mass of Dry Oversize Fraction	gm	43,540	44,025
Mass of Wet Control Fraction	gm	52,115	56,087
Moistur Content of Control Fraction	%	5.36	5.27
Mass of Dry Control Fraction	gm	49,465	53,277

2- Volume of the Pit

Item	Unit	Value(1)	Value(2)
Mass of Calibrated Sand in pit and Tamplate	gm	80,933	83,497
Mass of Calibrated Sand in Tamplate	gm	20,381	20,381
Mass of Calibrated Sand in pit	gm	60,552	63,116
Density of Calibrated Sand	gm/Cm3	1.49	1.49
Volume of the Pit	Cm3	40,639	42,360
Specific Gravity of Oversize Fraction	gm/Cm3	2.428	2.432
Volume of Oversize Fraction	Cm3	18,379	18,580
Volume of Control Fraction	Cm3	22,260	23,780

3-Relative Density Calculation

Density of Control Fraction	gm/Cm3	2.222	2.241
Modified Proctor	gm/Cm3	2.273	2.273
Compaction	%	97.8%	98.57%
Pass/Fail	95%(min.)	Pass	Pass





project	Eleelectric Express Train			Date of Sample	20/9/2023
Company	الغازى			Date of Report.	21/9/2023
Station	445+140	(1)	445+270	Level	-1.3 M

**Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16**

1- Mass of Materials

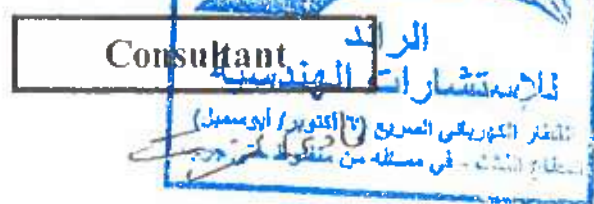
Item	Unit	Value (1)	Value (2)
Mass of total Wet Matrials	gm	104,252	99,753
Moistur Content of total Matrials	%	4.32	4.19
Mass of total Dry Matrials	gm	99,931	95,742
Mass of Wet OverSize Fraction	gm	47,391	45,837
Moistur Content of OverSize Fraction	%	2.77	2.78
Mass of Dry OverSize Fraction	gm	46,112	44,597
Mass of Wet Control Fraction	gm	56,861	53,916
Moistur Content of Control Fraction	%	5.65	5.42
Mass of Dry Control Fraction	gm	53,819	51,145

2- Volume of the Pit

Item	Unit	Value(1)	Value(2)
Mass of Calibrated Sand in pit and Tamplate	gm	85,366	82,954
Mass of Calibrated Sand in Tamplate	gm	20,427	20,427
Mass of Calibrated Sand in pit	gm	64,939	62,527
Density of Calibrated Sand	gm/Cm3	1.49	1.49
Volume of the Pit	Cm3	43,583	41,964
Specific Gravity of Oversize Fraction	gm/Cm3	2.426	2.424
Volume of Oversize Fraction	Cm3	19,535	18,910
Volume of Control Fraction	Cm3	24,048	23,054

3-Relative Density Calculation

Density of Control Fraction	gm/Cm3	2.238	2.218
Modified Proctor	gm/Cm3	2.273	2.273
Compaction	%	98.5%	97.60%
Pass/Fail	95%(min.)	Pass	Pass



الهيئة القومية للإنفاق



project	Eleelectric Express Train			Date of Sample	18/9/2023
Company	الغازى			Date of Report.	19/9/2023
Station	444+860	to	444+960	Level	-14.5 M

**Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16**

1- Mass of Materials

Item	Unit	Value (1)	Value (2)
Mass of total Wet Matrials	gm	103,447	92,834
Moistur Content of total Matrials	%	4.38	4.3
Mass of total Dry Matrials	gm	99,103	89,006
Mass of Wet OverSize Fraction	gm	44,201	40,681
Moistur Content of OverSize Fraction	%	2.82	2.9
Mass of Dry Oversize Fraction	gm	42,985	39,534
Mass of Wet Control Fraction	gm	59,246	52,153
Moistur Content of Control Fraction	%	5.57	5.42
Mass of Dry Control Fraction	gm	56,118	49,472

2- Volume of the Pit

Item	Unit	Value(1)	Value(2)
Mass of Calibrated Sand in pit and Tamplate	gm	85,373	78,347
Mass of Calibrated Sand in Tamplate	gm	20,349	20,349
Mass of Calibrated Sand in pit	gm	65,024	57,998
Density of Calibrated Sand	gm/Cm3	1.49	1.49
Volume of the Pit	Cm3	43,640	38,925
Specific Gravity of Oversize Fraction	gm/Cm3	2.427	2.431
Volume of Oversize Fraction	Cm3	18,212	16,734
Volume of Control Fraction	Cm3	25,428	22,191

3-Relative Density Calculation

Density of Control Fraction	gm/Cm3	2.207	2.229
Modified Proctor	gm/Cm3	2.273	2.273
Compaction	%	97.1%	98.08%
Pass/Fail	95%(min.)	Pass	Pass

contractor

Consultant

الرائد

Tarek Elsayed
الغازى للمقاولات الهندسية

الرائد للاستشارات الهندسية
القطاع الهندسى المربع (٦ أكتوبر/أكتوبر)
القطاع الهندسى المربع (٦ أكتوبر/أكتوبر)

الهيئة القومية للإنفاق



EI-RAEID
FIRST EGYPTIAN ENGINEERING CONSULTANTS
الرائد للاستشارات الهندسية

GH
الغازي للمقاولات السويدي



project	Eleelectric Express Train			Date of Sample	28/9/2023
Company	الغازي			Date of Report.	30/9/2023
Station	444+860	to	444+960	Level	-14 M

**Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16**

1- Mass of Materials

Item	Unit	Value (1)	Value (2)
Mass of total Wet Matrials	gm	91,976	94,832
Moistur Content of total Matrials	%	3.94	3.92
Mass of total Dry Matrials	gm	88,493	91,255
Mass of Wet OverSize Fraction	gm	40,641	44,213
Moistur Content of OverSize Fraction	%	2.39	2.53
Mass of Dry OverSize Fraction	gm	39,694	43,121
Mass of Wet Control Fraction	gm	51,335	50,619
Moistur Content of Control Fraction	%	5.2	5.16
Mass of Dry Control Fraction	gm	48,799	48,134

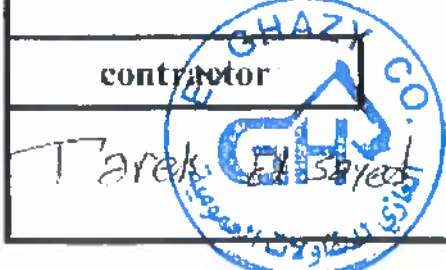
2- Volume of the Pit

Item	Unit	Value(1)	Value(2)
Mass of Calibrated Sand in pit and Tamplate	gm	78,283	80,324
Mass of Calibrated Sand in Tamplate	gm	20,437	20,437
Mass of Calibrated Sand in pit	gm	57,846	59,887
Density of Calibrated Sand	gm/Cm3	1.49	1.49
Volume of the Pit	Cm3	38,823	40,193
Specific Gravity of Oversize Fraction	gm/Cm3	2.425	2.418
Volume of Oversize Fraction	Cm3	16,759	18,285
Volume of Control Fraction	Cm3	22,064	21,908

3-Relative Density Calculation

Density of Control Fraction	gm/Cm3	2.212	2.197
Modified Proctor	gm/Cm3	2.273	2.273
Compaction	%	97.3%	96.66%
Pass/Fail	95%(min.)	Pass	Pass

contractor



Consultant

الرائد

للإستشارات الهندسية

تأشير الكهربي السريخ (٦ أكتوبر ٢٠٢٣)
تأجيل الشغل - ليس بمصلحة من منطلوط حتى ٢٠٢٣

الهيئة القومية للإنفاق



EL-RAEID
الرائد للاستشارات الهندسية

GH
الغازي للمقاولات المدنية



project	Eleetric Express Train			Date of Sample	28/9/2023
Company	الغازي			Date of Report.	30/9/2023
Station	444+960	(u)	445+040	Level	-14 M

**Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16**

1- Mass of Materials

Item	Unit	Value (1)	Value (2)
Mass of total Wet Matrials	gm	96,837	98,049
Moistur Content of total Matrials	%	3.96	3.93
Mass of total Dry Matrials	gm	93,152	94,339
Mass of Wet OverSize Fraction	gm	43,586	46,134
Moistur Content of OverSize Fraction	%	2.43	2.53
Mass of Dry Oversize Fraction	gm	42,553	44,994
Mass of Wet Control Fraction	gm	53,251	51,915
Moistur Content of Control Fraction	%	5.24	5.21
Mass of Dry Control Fraction	gm	50,599	49,344

2- Volume of the Pit

Item	Unit	Value(1)	Value(2)
Mass of Calibrated Sand in pit and Tamplate	gm	81,546	82,016
Mass of Calibrated Sand in Tamplate	gm	20,437	20,437
Mass of Calibrated Sand in pit	gm	61,109	61,579
Density of Calibrated Sand	gm/Cm3	1.49	1.49
Volume of the Pit	Cm3	41,013	41,328
Specific Gravity of Oversize Fraction	gm/Cm3	2.423	2.419
Volume of Oversize Fraction	Cm3	17,988	19,072
Volume of Control Fraction	Cm3	23,025	22,256

3-Relative Density Calculation

Density of Control Fraction	gm/Cm3	2.198	2.217
Modified Proctor	gm/Cm3	2.273	2.273
Compaction	%	96.7%	97.54%
Pass/Fail	95%(min.)	Pass	Pass

contractor

Tarek



Consultant

Signature

الرائد
للإستشارات الهندسية
القطر فكري على السريع (6 أكتوبر/ أوسمينا) ر
مستشار - في مساهمة من منظومة حتى جرد



project	Electric Express Train	Date of Sample	30/9/2023
Company	الغازي	Date of Report	30/9/2023
Station	444+770 to 444+800	Level	-21 M

**Field Density Test By Sand Replacement Test According to
ASTM D-4914 M-16**

1- Mass of Materials

Item	Unit	Value
Mass of total Wet Matrials	gm	89,376
Moistur Content of total Matrials	%	3.8
Mass of total Dry Matrials	gm	86103
Mass of Wet OverSize Fraction	gm	40,012
Moistur Content of OverSize Fraction	%	2.19
Mass of Dry Oversize Fraction	gm	39,156
Mass of Wet Control Fraction	gm	49,364
Moistur Content of Control Fraction	%	5.15
Mass of Dry Control Fraction	gm	46,947

2- Volume of the Pit

Item	Unit	Value
Mass of Calibrated Sand in pit and Tamplate	gm	76,574
Mass of Calibrated Sand in Tamplate	gm	20,412
Mass of Calibrated Sand in pit	gm	56,162
Density of Catibrated Sand	gm/Cm3	1.49
Volume of the Pit	Cm3	37,693
Specific Gravity of Oversize Fraction	gm/Cm3	2.434
Volume of Oversize Fraction	Cm3	16,439
Volume of Control Fraction	Cm3	21,254

3-Relative Density Calculation

Density of Control Fraction	gm/Cm3	2.209
Modified Proctor	gm/Cm3	2.273
Compaction	%	97.2%
Pass/Fail	95%(min.)	Pass

contractor

Tarek El sayed

الرائد
للاستشارات الهندسية

الطريق الرئيسي السريع (٦ أكتوبر) أوسمبل
مطابق المخطط - في منطقة سكنية متطورة جدي



project	Eleelectric Express Train	Date of Sample	2/10/2023
Company	الغازي	Date of Report.	3/10/2023
Station	444+770 to 444+800	Level	-20.5 M

Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16

1- Mass of Materials

Item	Unit	Value
Mass of total Wet Matrials	gm	93,251
Moistur Content of total Matrials	%	3.62
Mass of total Dry Matrials	gm	89992
Mass of Wet OverSize Fraction	gm	44,031
Moistur Content of OverSize Fraction	%	2.08
Mass of Dry OverSize Fraction	gm	43,133
Mass of Wet Control Fraction	gm	49,220
Moistur Content of Control Fraction	%	5.04
Mass of Dry Control Fraction	gm	46,859

2- Volume of the Pit

Item	Unit	Value
Mass of Calibrated Sand in pit and Tamplate	gm	78,629
Mass of Calibrated Sand in Tamplate	gm	20,434
Mass of Calibrated Sand in pit	gm	58,195
Density of Calibrated Sand	gm/Cm3	1.49
Volume of the Pit	Cm3	39,057
Specific Gravity of Oversize Fraction	gm/Cm3	2.428
Volume of Oversize Fraction	Cm3	18,135
Volume of Control Fraction	Cm3	20,922

3-Relative Density Calculation

Density of Control Fraction	gm/Cm3	2.240
Modified Proctor	gm/Cm3	2.273
Compaction	%	98.5%
Pass/Fail	95%(min.)	Pass

contractor

Tarek El Sayed



المراجع
المستشار
Consultant

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المستشار
المراجع
المستشار

المراجع
المستشار



project	Eleelectric Express Train			Date of Sample	9/10/2023
Company	الغازي			Date of Report.	10/10/2023
Station	445+040	to	445+140	Level	-13.5 M

**Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16**

1- Mass of Materials

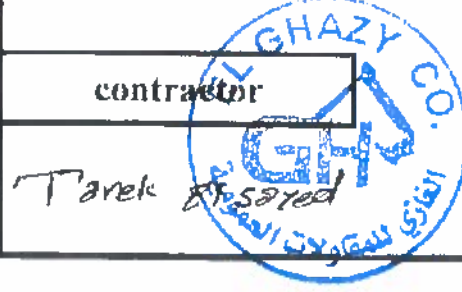
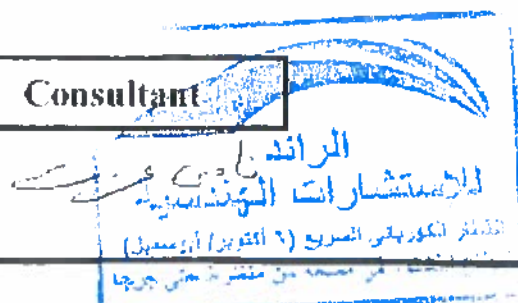
Item	Unit	Value (1)	Value (2)
Mass of total Wet Matrials	gm	89,547	93,612
Moistur Content of total Matrials	%	3.66	3.58
Mass of total Dry Matrials	gm	86,382	90,375
Mass of Wet OverSize Fraction	gm	40,369	42,216
Moistur Content of OverSize Fraction	%	1.91	1.83
Mass of Dry Oversize Fraction	gm	39,614	41,456
Mass of Wet Control Fraction	gm	49,178	51,396
Moistur Content of Control Fraction	%	5.15	5.06
Mass of Dry Control Fraction	gm	46,768	48,919

2- Volume of the Pit

Item	Unit	Value(1)	Value(2)
Mass of Calibrated Sand in pit and Tamplate	gm	76,923	79,897
Mass of Calibrated Sand in Tamplate	gm	20,578	20,578
Mass of Calibrated Sand in pit	gm	56,345	59,319
Density of Calibrated Sand	gm/Cm3	1.49	1.49
Volume of the Pit	Cm3	37,815	39,811
Specific Gravity of Oversize Fraction	gm/Cm3	2.421	2.421
Volume of Oversize Fraction	Cm3	16,675	17,437
Volume of Control Fraction	Cm3	21,140	22,374

3-Relative Density Calculation

Density of Control Fraction	gm/Cm3	2.212	2.186
Modified Proctor	gm/Cm3	2.252	2.252
Compaction	%	98.2%	97.09%
Pass/Fail	95%(min.)	Pass	Pass

contractor	Consultant
	



project	Elelectric Express Train			Date of Sample	11/10/2023
Company	الغازى			Date of Report.	12/10/2023
Station	444+860	to	444+960	Level	-13.5 M

**Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16**

1- Mass of Materials

Item	Unit	Value (1)	Value (2)
Mass of total Wet Matrials	gm	114,523	108,369
Moistur Content of total Matrials	%	3.57	3.53
Mass of total Dry Matrials	gm	110,580	104,676
Mass of Wet OverSize Fraction	gm	52,714	50,054
Moistur Content of OverSize Fraction	%	1.8	1.77
Mass of Dry OverSize Fraction	gm	51,781	49,183
Mass of Wet Control Fraction	gm	61,809	58,315
Moistur Content of Control Fraction	%	5.12	5.09
Mass of Dry Control Fraction	gm	58,799	55,493

2- Volume of the Pit

Item	Unit	Value(1)	Value(2)
Mass of Calibrated Sand in pit and Tamplate	gm	93,588	89,367
Mass of Calibrated Sand in Tamplate	gm	20,629	20,629
Mass of Calibrated Sand in pit	gm	72,959	68,738
Density of Calibrated Sand	gm/Cm3	1.49	1.49
Volume of the Pit	Cm3	48,966	46,133
Specific Gravity of Oversize Fraction	gm/Cm3	2.429	2.429
Volume of Oversize Fraction	Cm3	21,702	20,607
Volume of Control Fraction	Cm3	27,264	25,526

3-Relative Density Calculation

Density of Control Fraction	gm/Cm3	2.157	2.174
Modified Proctor	gm/Cm3	2.252	2.252
Compaction	%	95.8%	96.53%
Pass/Fail	95%(min.)	Pass	Pass

contractor	Consultant
Tarek	المهندس للإستشارات الهندسية الغازى للمقاولات الهندسية



project	Eleelectric Express Train			Date of Sample	11/10/2023
Company	الغازى			Date of Report.	12/10/2023
Station	444+960	to	445+040	Level	-13.5 M

**Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16**

1- Mass of Materials

Item	Unit	Value (1)	Value (2)
Mass of total Wet Matrials	gm	99,318	102,641
Moistur Content of total Matrials	%	3.48	3.51
Mass of total Dry Matrials	gm	95,979	99,165
Mass of Wet OverSize Fraction	gm	45,830	47,285
Moistur Content of OverSize Fraction	%	1.75	1.67
Mass of Dry OverSize Fraction	gm	45,042	46,510
Mass of Wet Control Fraction	gm	53,488	55,356
Moistur Content of Control Fraction	%	5	5.13
Mass of Dry Control Fraction	gm	50,937	52,655

2- Volume of the Pit

Item	Unit	Value(1)	Value(2)
Mass of Calibrated Sand in pit and Tamplate	gm	81,712	85,947
Mass of Calibrated Sand in Tamplate	gm	20,629	20,629
Mass of Calibrated Sand in pit	gm	61,083	65,318
Density of Calibrated Sand	gm/Cm3	1.49	1.49
Volume of the Pit	Cm3	42,338	43,838
Specific Gravity of Oversize Fraction	gm/Cm3	2.429	2.429
Volume of Oversize Fraction	Cm3	18,868	19,467
Volume of Control Fraction	Cm3	23,470	24,371

3-Relative Density Calculation

Density of Control Fraction	gm/Cm3	2.170	2.161
Modified Proctor	gm/Cm3	2.252	2.252
Compaction	%	96.4%	95.94%
Pass/Fail	95%(min.)	Pass	Pass

contractor  	Consultant  
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project	Electric Express Train	Date of Sample	19/10/2023
Company	الغازي	Date of Report.	21/10/2023
Station	444+770 to 444+800	Level	-19.5 M

Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16

1- Mass of Materials

Item	Unit	Value
Mass of total Wet Materials	gm	106,347
Moistur Content of total Materials	%	3.32
Mass of total Dry Materials	gm	102920
Mass of Wet OverSize Fraction	gm	48,396
Moistur Content of OverSize Fraction	%	1.39
Mass of Dry Oversize Fraction	gm	47,733
Mass of Wet Control Fraction	gm	57,951
Moistur Content of Control Fraction	%	5.01
Mass of Dry Control Fraction	gm	55,187

2- Volume of the Pit

Item	Unit	Value
Mass of Calibrated Sand in pit and Tamplate	gm	87,782
Mass of Calibrated Sand in Tamplate	gm	20,489
Mass of Calibrated Sand in pit	gm	67,293
Density of Calibrated Sand	gm/Cm3	1.49
Volume of the Pit	Cm3	45,163
Specific Gravity of Oversize Fraction	gm/Cm3	2.435
Volume of Oversize Fraction	Cm3	19,875
Volume of Control Fraction	Cm3	25,288

3-Relative Density Calculation

Density of Control Fraction	gm/Cm3	2.182
Modified Proctor	gm/Cm3	2.26
Compaction	%	96.6%
Pass/Fail	95%(min.)	Pass

contractor

Tarek El-Sayed

Consulrant

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project	Eleelectric Express Train	Date of Sample	13/7/2023
Company	الغازى	Date of Report.	15/07/2023
Station	445+180 to 445+230	Level	-15.5 M

**Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16**

1- Mass of Materials

Item	Unit	Value
Mass of total Wet Matrials	gm	74,003
Moistur Content of total Matrials	%	4.8
Mass of Wet OverSize Fraction	gm	34,038
Moistur Content of OverSize Fraction	%	3.9
Mass of Dry OverSize Fraction	gm	32,710
Mass of Wet Control Fraction	gm	39,965
Moistur Content of Control Fraction	%	5.9
Mass of Dry Control Fraction	gm	37,607

2- Volume of the Pit

Item	Unit	Value
Mass of Calibrated Sand in pit and Tamplate	gm	65,779
Mass of Calibrated Sand in Tamplate	gm	19,511
Mass of Calibrated Sand in pit	gm	46,268
Density of Calibrated Sand	gm/Cm3	1.49
Volume of the Pit	Cm3	31,052
Specific Gravity of Oversize Fraction	gm/Cm3	2.540
Volume of Oversize Fraction	Cm3	13,400
Volume of Control Fraction	Cm3	17,652

3-Relative Density Calculation

Density of Control Fraction	gm/Cm3	2.160
Modified Proctor	gm/Cm3	2.240
Compaction	%	96.4%
Pass/Fail	95%(min.)	Pass

contractor Tarek Elsayed Consultant



الهيئة القومية للإنفاق

NATIONAL AUTHORITY FOR TUNNELS & BRIDGES



EI-RAEID
ELRAEID ENGINEERING CONSULTANTS
الرائد للاستشارات الهندسية



project	Elelectric Express Train	Date of Sample	13/7/2023
Company	الغازي	Date of Report.	15/07/2023
Station	445+230 to 445+270	Level	-15.5 M

**Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16**

1- Mass of Materials

Item	Unit	Value
Mass of total Wet Matrials	gm	70,310
Moistur Content of total Matrials	%	4.98
Mass of Wet OverSize Fraction	gm	33,124
Moistur Content of OverSize Fraction	%	3.1
Mass of Dry OverSize Fraction	gm	32,130
Mass of Wet Control Fraction	gm	37,186
Moistur Content of Control Fraction	%	6.3
Mass of Dry Control Fraction	gm	34,843

2- Volume of the Pit

Item	Unit	Value
Mass of Calibrated Sand in pit and Tamplate	gm	64,174
Mass of Calibrated Sand in Tamplate	gm	20,406
Mass of Calibrated Sand in pit	gm	43,768
Density of Calibrated Sand	gm/Cm3	1.49
Volume of the Pit	Cm3	29,375
Specific Gravity of Oversize Fraction	gm/Cm3	2.516
Volume of Oversize Fraction	Cm3	13,165
Volume of Control Fraction	Cm3	16,210

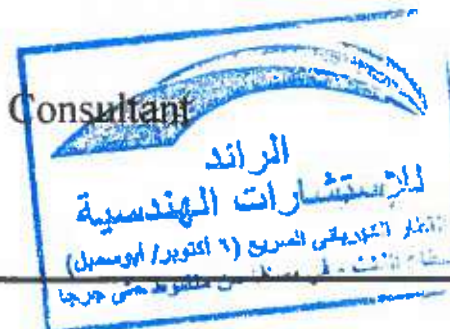
3-Relative Density Calculation

Density of Control Fraction	gm/Cm3	2.185
Modified Proctor	gm/Cm3	2.270
Compaction	%	96.3%
Pass/Fail	95%(min.)	Pass

contractor



Consultant



الهيئة القومية للإنفاق

NATIONAL AUTHORITY FOR TOLLWAYS
EGYPT



EI-RAEID
ELECTRIC ENGINEERING CONSULTANTS
الرائد للإستشارات الهندسية



project	Eleelectric Express Train	Date of Sample	12/7/2023
Company	الغازى	Date of Report.	13/07/2023
Station	445+270 to 445+300	Level	-15.5 M

**Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16**

1- Mass of Materials

Item	Unit	Value
Mass of total Wet Matrials	gm	63,683
Moistur Content of total Matrials	%	4.8
Mass of Wet OverSize Fraction	gm	34,879
Moistur Content of OverSize Fraction	%	3.7
Mass of Dry OverSize Fraction	gm	33,588
Mass of Wet Control Fraction	gm	28,804
Moistur Content of Control Fraction	%	5.9
Mass of Dry Control Fraction	gm	27,104

2- Volume of the Pit

Item	Unit	Value
Mass of Calibrated Sand in pit and Tamplate	gm	53,855
Mass of Calibrated Sand in Tamplate	gm	14,977
Mass of Calibrated Sand in pit	gm	38,878
Density of Calibrated Sand	gm/Cm3	1.49
Volume of the Pit	Cm3	26,093
Specific Gravity of Oversize Fraction	gm/Cm3	2.550
Volume of Oversize Fraction	Cm3	13,678
Volume of Control Fraction	Cm3	12,415

3-Relative Density Calculation

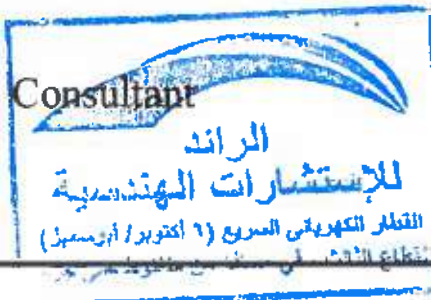
Density of Control Fraction	gm/Cm3	2.213
Modified Proctor	gm/Cm3	2.240
Compaction	%	98.8%
Pass/Fail	95%(min.)	Pass

contractor

Tarek Elsayed



Consultant



الهيئة القومية للإنفاق

NATIONAL AUTHORITY FOR TOLLAGE (NAT)



EL-RAEID
EL-RAEID ENGINEERING CONSULTANTS
الرائد للاستشارات الهندسية



project	Electric Express Train	Date of Sample	12/7/2023
Company	الغازي	Date of Report.	13/07/2023
Station	445+270 to 445+320	Level	-15 M

**Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16**

1- Mass of Materials

Item	Unit	Value
Mass of total Wet Matrials	gm	66,326
Moistur Content of total Matrials	%	4.73
Mass of Wet OverSize Fraction	gm	31,647
Moistur Content of OverSize Fraction	%	3.1
Mass of Dry OverSize Fraction	gm	30,665
Mass of Wet Control Fraction	gm	34,679
Moistur Content of Control Fraction	%	5.8
Mass of Dry Control Fraction	gm	32,667

2- Volume of the Pit

Item	Unit	Value
Mass of Calibrated Sand in pit and Tamplate	gm	59,863
Mass of Calibrated Sand in Tamplate	gm	19,534
Mass of Calibrated Sand in pit	gm	40,329
Density of Calibrated Sand	gm/Cm3	1.49
Volume of the Pit	Cm3	27,066
Specific Gravity of Oversize Fraction	gm/Cm3	2.590
Volume of Oversize Fraction	Cm3	12,218
Volume of Control Fraction	Cm3	14,848

3-Relative Density Calculation

Density of Control Fraction	gm/Cm3	2.230
Modified Proctor	gm/Cm3	2.270
Compaction	%	98.2%
Pass/Fail	95%(min.)	Pass

contractor



Consultant





project	Eleelectric Express Train	Date of Sample	22/7/2023
Company	الغازي	Date of Report.	23/7/2023
Station	444+960 to 445+020	Level	-17.5 M

**Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16**

1- Mass of Materials

Item	Unit	Value
Mass of total Wet Matrials	gm	89,152
Moistur Content of total Matrials	%	5.05
Mass of Wet OverSize Fraction	gm	43,204
Moistur Content of OverSize Fraction	%	3.47
Mass of Dry OverSize Fraction	gm	41,704
Mass of Wet Control Fraction	gm	45,948
Moistur Content of Control Fraction	%	6.08
Mass of Dry Control Fraction	gm	43,154

2- Volume of the Pit

Item	Unit	Value
Mass of Calibrated Sand in pit and Tamplate	gm	75,469
Mass of Calibrated Sand in Tamplate	gm	20,397
Mass of Calibrated Sand in pit	gm	55,072
Density of Calibrated Sand	gm/Cm3	1.49
Volume of the Pit	Cm3	36,961
Specific Gravity of Oversize Fraction	gm/Cm3	2.507
Volume of Oversize Fraction	Cm3	17,233
Volume of Control Fraction	Cm3	19,728

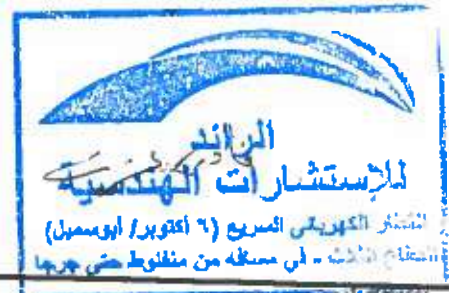
3-Relative Density Calculation

Density of Control Fraction	gm/Cm3	2.217
Modified Proctor	gm/Cm3	2.270
Compaction	%	97.7%
Pass/Fail	95%(min.)	Pass

contractor Tarek Elsayed



Consultant



project	Eleelectric Express Train	Date of Sample	3/8/2023
Company	الغازى	Date of Report.	5/8/2023
Station	444+860 to 444+910	Level	-17 M

**Field Density Test By Sand Replacement Test According to
ASTM D-4914 M -16**

1- Mass of Materials

Item	Unit	Value
Mass of total Wet Matrials	gm	81,201
Moistur Content of total Matrials	%	4.98
Mass of Wet OverSize Fraction	gm	38,014
Moistur Content of OverSize Fraction	%	3.2
Mass of Dry OverSize Fraction	gm	36,797
Mass of Wet Control Fraction	gm	43,187
Moistur Content of Control Fraction	%	6.1
Mass of Dry Control Fraction	gm	40,552

2- Volume of the Pit

Item	Unit	Value
Mass of Calibrated Sand in pit and Tamplate	gm	70,740
Mass of Calibrated Sand in Tamplate	gm	20,409
Mass of Calibrated Sand in pit	gm	50,331
Density of Calibrated Sand	gm/Cm3	1.49
Volume of the Pit	Cm3	33,779
Specific Gravity of Oversize Fraction	gm/Cm3	2.520
Volume of Oversize Fraction	Cm3	15,084
Volume of Control Fraction	Cm3	18,695

3-Relative Density Calculation

Density of Control Fraction	gm/Cm3	2.200
Modified Proctor	gm/Cm3	2.250
Compaction	%	97.8%
Pass/Fail	95%(min.)	Pass

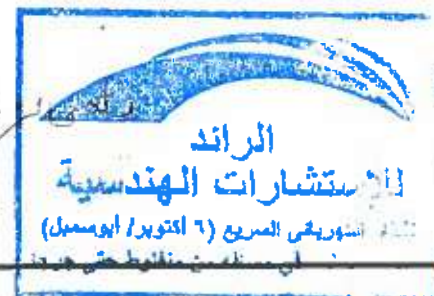
contractor

Tarek Elsayed

5/8/2023



Consultant



وزارة النقل

مشروع : القطار السريع القطاع الثالث

الهيئة العامة للطرق والكباري
المنطقة السابعة بأسسوط
ملف رقم

السيد المهندس / مدير شركة الغازى للمقاولات العمومية

تحية طيبة ... و بعد

* نتشرف ان نرفق طيه تقرير معطى نتائج عينات اترية من العمالية عاليه
برجاء التفعل بالتنبيه باللازم.
و تفصلوا سيادتكم بتبول فانسق التحية...

تحرير فى : 2023/9/7

عند (1) تقرير معمل

مدير المعامل

/م

مصطفى محمد العبد

رئيس الادارة المركزية

مهندس/

(مصطفى على مسعود)

تقرير رقم (463)

مديرية الطرق
الهيئة العامة للطرق والكباري
المنطقة السابعة بأسبوط

تقرير رقم (463) بتاريخ 9/7 / 2023
موضوع: إنشاء الجسر القريب للطريق السريع القطاع
المنفذ / جرجا

أرسلت العينات إلى المختبر لمعرفة المينس / فادي عزت (المشاور المشروع)
الهيئة المشرفة: المنطقة السابعة
الشركة المنفذة: القاري للمقاولات العمومية
رقم عينات:

- 1- عينة رقم 1467 التربة من مجرى مجرى ابراهيم تحت رقم (1)
- 2- عينة رقم 1468 التربة من مجرى مجرى ابراهيم تحت رقم (2)
- 3- عينة رقم 1469 التربة من مجرى مجرى ابراهيم تحت رقم (3)

- التحليلات:
- 1- التفريغ الحبيبي
 - 2- اللدونة والسيولة
 - 3- البرونكتور المعدل
 - 4- نسبة تحمل كاليفورنيا للمعدل

التحليلات:

سعة المنزلة	"2.5"	"2"	"1.5"	"1"	"3/4"	"3/8"	رقم 4	رقم 10	رقم 40	رقم 200
للأمر 1467	91	79	65	51	44	34	27	18	11	4
للأمر 1468	87	80	74	68	64	54	40	24	16	5
للأمر 1469	90	82	66	53	47	35	24	18	13	5
المواصفات										
لللدونة والبرونكتور المعدل ونسبة تحمل كاليفورنيا										
للأمر 1467										لا تزيد عن 15%

الاختبار	اللدونة		تصنيف التربة	أقصى نسبة جافة بالمعدل	نسبة المياه القصوى %	نسبة تحمل كاليفورنيا %	الانخفاض %
	حد السيولة	مجال اللدونة					
للأمر 1467	21.9	8.4	A2-4	2.27	4.7	32	1.2
للأمر 1468	22.1	8.4	A2-4	2.25	5.1	35	1.4
للأمر 1469	22.3	8.6	A2-4	2.27	4.5	29	1.4
حدود المواصفات			A1-a A1-b			لا تقل عن 20%	

ملاحظات:

- 1- العينات تصلح للاستخدام في طبقة Lower embankment ويتم تسليم التربة باختيار Sand replacement
- 2- وجود نسبة انخفاض في التربة بسبب ارتفاع وجود نسبة لدونة ويجب معالجة التربة

تقرير رقم: 2023/9/7

رئيس الإدارة العمالية
مهندس /
(مصطفى علي مسعود)

مهندس /
مصطفى محمد أمين

تقرير رقم (463)

وزارة النقل

مشروع : القطار السريع القطاع الثالث

الهيئة العامة للطرق والكباري
المنطقة السابعة بأسسوط
ملف رقم

السيد المهندس / مدير شركة الغازى للمقاولات العمومية

تحية طيبة ... و بعد

** نتشرف ان نرفق طيه تقرير معملى بنتائج عينات اترية من العملية عاليه
برجاء التفضل بالنتبيه باللازم.
و تقضلوا سيادتكم بقول فائق التحية،،،

تحريرا فى : 2023/6/22

عدد (1) تقرير معمل

مدير المعامل

/م

مصطفى محمد امين

رئيس الادارة المركزية

مهندس/

(مصطفى علي مسعود)

وزارة النقل
الهيئة العامة للطرق والمواصلات
إدارة الطرق السريعة والجسور

تقرير رقم (3-15) بتاريخ 2023 / 6 / 22
مشروع : إنشاء الجسر الترابي للقطار السريع الدمام
الثالث منفلوط / جرجا

العينات مسئولة من أحضرها

(استشاري المشروع)

وراء العينات إلى المعدل بمعرفة المهندس / احمد تمام
الجهة المشرفة : الإدارة العامة
المدينة المنورة : الثاني
رقم و نوع العينات :

- 1- عينة رقم 112.1 الرتبة من مجهر الضيق رقم (1)
- 2- عينة رقم 112.1 الرتبة من مجهر الضيق رقم (2)
- 3- عينة رقم 112.5 الرتبة من مجهر الضيق رقم (3)

الاجراء التي اجريت :

- 1- اختبار الحبيبي
- 2- الاختبار السويدي
- 3- اختبار تدوير المعدل
- 4- نسبة تحمل كاتريرا للمعدل

النتائج :

- 1- النتائج الحبيبي

رقم 200	رقم 10	رقم 1	رقم 3/8	رقم 3/4	رقم 1	رقم 1.5	رقم 2	رقم 2.5	معدل الوزن
7	15	18	25	34	48	56	76	93	112.1
9	17	25	29	36	48	54	63	76	112.1
9	21	28	33	43	56	61	71	86	112.5
لا تزيد عن 15%									الحدود المسموحة

الاوزان التي يتم بها المعدل ونسبة تحمل كاتريرا

الاسم	نوع التربة	الاوزان		نوع التربة	نوع التربة	نوع التربة	نوع التربة
		نوع التربة	نوع التربة				
112.1	21.9	11.4	A2-a	2.24	5.5	52	0.2
112.1	19.1	1.2	A1-b	2.24	5.7	50	0
112.5	22.1	0.6	A2-a	2.22	5.8	47	0.3
حدود المسموحات			A1-b			لا تقل عن 20%	

ملاحظات :

- 1- العينات رقم 112.1 و 112.5 تصلح للاستخدام في طبقة Lower embankment ويتم تسليم الدمك باختبار Sand replacement
- 2- العينة رقم 112.1 تصلح للاستخدام في جميع طبقات الردم بالمشروع ويتم تسليم الدمك باختبار Sand replacement

تاريخ التقرير : 2023/6/22

رئيس الإدارة المركزية

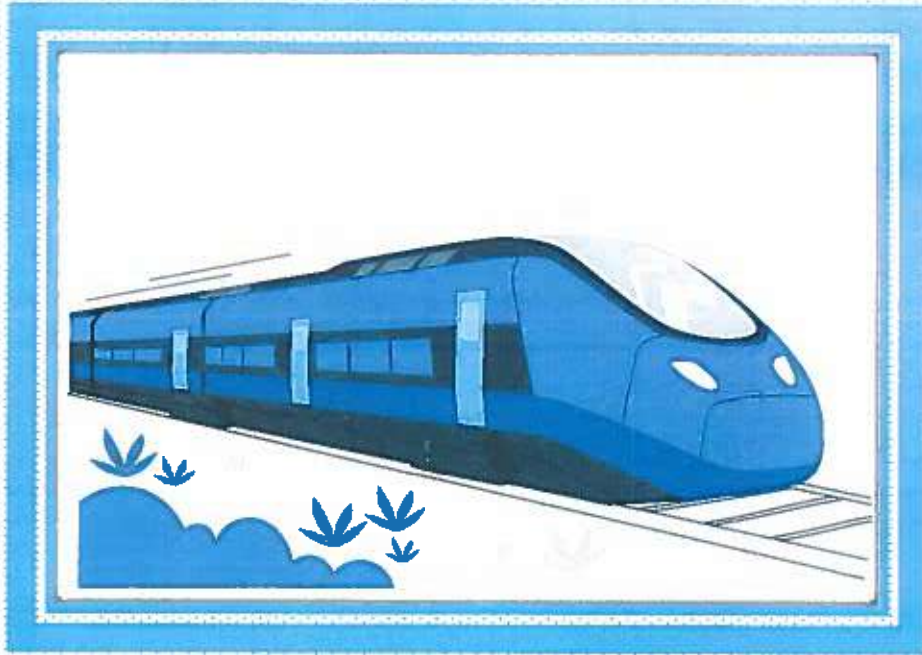
(مصطفى علي مسعود)

مهندس /

مهندس /

(مصطفى محمد أمين)

التقرير رقم (3-15)



اعتماد الهيئة لطلبات الاستلام

شركة الغازى للمقاولات العامة



التاريخ:- ٢٠٢٤/٠١/٠٣

اسم المشروع:- مشروع القطار الكهربائي السريع قطاع (6 أكتوبر - أبو سمبل).

الموضوع:- اعتماد الهيئة العامة للطرق والكباري لطلبات استلام الأعمال الخاصة بالمشروع.

الشركة المنفذة:- شركة الغازي للمقاولات العامة في المسافة من ٧٧٠+٤٤٤ الى ٨٠٠+٤٤٥.

عقد رقم:- ٢٠٢٤/٢٠٢٣/٥٥٣

تم الاطلاع على طلبات الفحص الخاصة بالمشروع المذكور عالية والمرفقة

بمستخلص جاري رقم (٢) لعدد طلب فحص واعتمادها تنقسم الى :

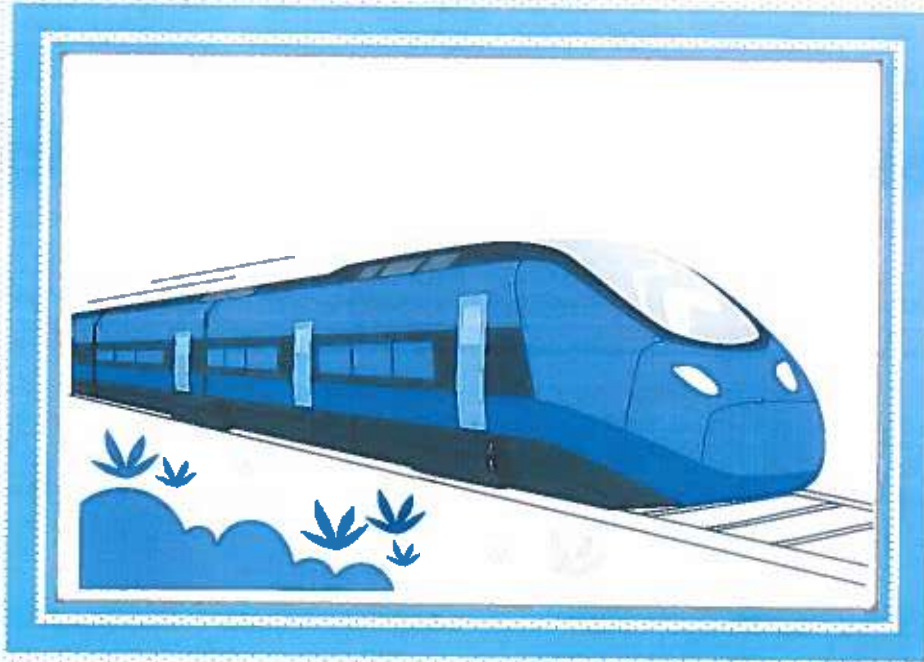
• عدد (٥٣) طلب استلام أعمال ردم

١٦٢

يعتمد " " " " " "

مهندس الهيئة العامة للطرق والكباري

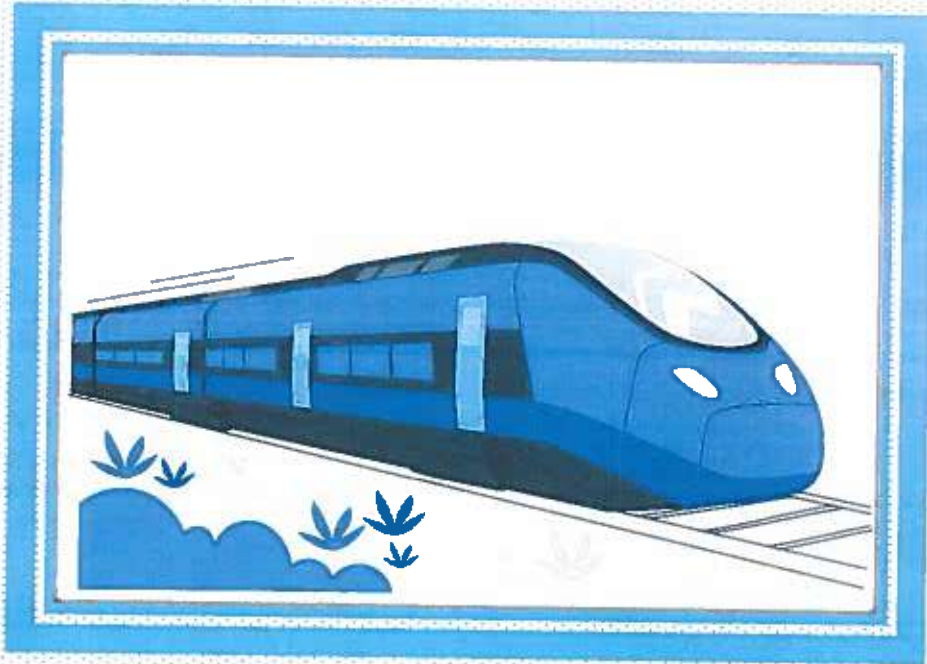
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البرنامج الزمني

شركة الغازى للمقاولات العامة

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الرفع المساحي المعتمد

شركة الغازى للمقاولات العامة

الرفع المساحي مستخلص جاري (٢)

Point	Easting	Northing	Elevation	Point	Easting	Northing	Elevation
1	346731.144	2925103.674	332.2978	335	347156.2676	2924740.087	334.7428
2	346735.3206	2925100.925	332.2928	336	347160.4442	2924737.339	334.7378
3	346739.4973	2925098.176	332.2878	337	347164.6208	2924734.59	334.7328
4	346743.6739	2925095.427	332.2828	338	347168.7975	2924731.841	334.7278
5	346747.8505	2925092.678	332.2778	339	347172.9741	2924729.092	334.7228
6	346752.0272	2925089.93	332.2728	340	347177.1507	2924726.343	334.7178
7	346756.2038	2925087.181	332.2678	341	347181.3274	2924723.595	334.7128
8	346760.3804	2925084.432	332.2628	342	347185.504	2924720.846	334.7078
9	346764.5571	2925081.683	332.2578	343	347189.6806	2924718.097	334.7028
10	346768.7337	2925078.935	332.2528	344	347193.8573	2924715.348	334.6978
11	346772.9103	2925076.186	332.2478	345	347198.0339	2924712.6	334.6928
12	346777.087	2925073.437	332.2428	346	347202.2105	2924709.851	334.6878
13	346781.2636	2925070.688	332.2378	347	347206.3872	2924707.102	334.6828
14	346785.4402	2925067.94	332.2328	348	347210.5638	2924704.353	334.6778
15	346789.6169	2925065.191	332.2278	349	347214.7404	2924701.605	334.6728
16	346793.7935	2925062.442	332.2228	350	347218.9171	2924698.856	334.6678
17	346797.9701	2925059.693	332.2178	351	347223.0937	2924696.107	334.6628
18	346802.1468	2925056.944	332.2128	352	347227.2703	2924693.358	334.6578
19	346806.3234	2925054.196	334.2078	353	347231.447	2924690.609	334.6528
20	346810.5	2925051.447	334.2028	354	347235.6236	2924687.861	334.6478
21	346814.6767	2925048.698	334.1978	355	347239.8002	2924685.112	334.6428
22	346818.8533	2925045.949	334.1928	356	347243.9769	2924682.363	334.6378
23	346823.0299	2925043.201	334.1878	357	347248.1535	2924679.614	334.6328
24	346827.2066	2925040.452	334.1828	358	347252.3301	2924676.865	334.6278
25	346831.3832	2925037.703	334.1778	359	347256.5068	2924674.117	334.6228
26	346835.5598	2925034.954	334.1728	360	347260.6834	2924671.368	334.6178
27	346839.7365	2925032.206	334.1678	361	347264.86	2924668.619	334.6128
28	346843.9131	2925029.457	334.1628	362	347269.0367	2924665.871	336.1078
29	346848.0897	2925026.708	334.1578	363	347273.2133	2924663.122	336.1028
30	346852.2664	2925023.959	334.1528	364	347277.3899	2924660.373	336.0978
31	346856.443	2925021.21	334.1478	365	347281.5666	2924657.624	336.0928
32	346860.6196	2925018.462	334.1428	366	347285.7432	2924654.875	336.0878
33	346864.7963	2925015.713	334.1378	367	347289.9198	2924652.127	336.0828
34	346868.9729	2925012.964	334.1328	368	347294.0965	2924649.378	336.0778
35	346873.1495	2925010.215	334.1278	369	347298.2731	2924646.629	336.0728
36	346877.3262	2925007.467	334.1228	370	347302.4497	2924643.88	336.0678
37	346881.5028	2925004.718	334.1178	371	347306.6264	2924641.132	336.0628
38	346885.6794	2925001.969	334.1128	372	347310.803	2924638.383	336.0578
39	346889.8561	2924999.22	334.1078	373	347314.9796	2924635.634	336.0528
40	346894.0327	2924996.472	334.1028	374	347319.1563	2924632.885	336.0478
41	346898.2093	2924993.723	334.0978	375	347323.3329	2924630.137	336.0428
42	346902.386	2924990.974	334.0928	376	347327.5095	2924627.388	336.0378
43	346906.5626	2924988.225	334.0878	377	347331.6862	2924624.639	336.0328
44	346910.7392	2924985.476	334.0828	378	347335.8628	2924621.89	336.0278
45	346914.9159	2924982.728	334.0778	379	347340.0395	2924619.141	336.0228
46	346919.0925	2924979.979	334.0728	380	347344.2161	2924616.393	336.0178
47	346923.2691	2924977.23	334.0678	381	347348.3927	2924613.644	336.0128
48	346927.4458	2924974.481	334.0628	382	347352.5694	2924610.895	336.0078
49	346931.6224	2924971.733	334.0578	383	347356.746	2924608.146	336.0028
50	346935.799	2924968.984	334.0528	384	347360.9226	2924605.398	335.9978
51	346939.9757	2924966.235	334.0478	385	347365.0993	2924602.649	335.9928
52	346944.1523	2924963.486	334.0428	386	347369.2759	2924599.9	335.9878
53	346948.3289	2924960.738	334.0378	387	347373.4525	2924597.151	335.9828
54	346952.5056	2924957.989	334.0328	388	347377.6292	2924594.403	335.9778
55	346956.6822	2924955.24	334.0278	389	347381.8058	2924591.654	335.9728
56	346960.8589	2924952.491	334.0228	390	347385.9824	2924588.905	335.9678
57	346965.0355	2924949.742	334.0178	391	347390.1591	2924586.156	335.9628
58	346969.2121	2924946.994	334.0128	392	347394.3357	2924583.407	335.9578
59	346973.3888	2924944.245	334.0078	393	347398.5123	2924580.659	335.9528
60	346977.5654	2924941.496	334.0028	394	347402.689	2924577.91	335.9478
61	346981.742	2924938.747	333.9978	395	347406.8656	2924575.161	335.9428
62	346985.9187	2924935.999	333.9928	396	347411.0422	2924572.412	335.9378
63	346990.0953	2924933.25	333.9878	397	347415.2189	2924569.664	335.9328

الرفع المساحي مستخلص جاري (٢)

Point	Easting	Northing	Elevation	Point	Easting	Northing	Elevation
64	346994.2719	2924930.501	333.9828	398	347419.3955	2924566.915	337.4278
65	346998.4486	2924927.752	333.9778	399	347423.5721	2924564.166	337.4228
66	347002.6252	2924925.004	333.9728	400	347427.7488	2924561.417	337.4178
67	347006.8018	2924922.255	333.9678	401	347431.9254	2924558.669	337.4128
68	347010.9785	2924919.506	333.9628	402	347436.102	2924555.92	337.4078
69	347015.1551	2924916.757	333.9578	403	347440.2787	2924553.171	337.4028
70	347019.3317	2924914.008	333.9528	404	347444.4553	2924550.422	337.3978
71	347023.5084	2924911.26	333.9478	405	347448.6319	2924547.673	337.3928
72	347027.685	2924908.511	333.9428	406	347452.8086	2924544.925	337.3878
73	347031.8616	2924905.762	333.9378	407	347456.9852	2924542.176	337.3828
74	347036.0383	2924903.013	333.9328	408	347461.1618	2924539.427	337.3778
75	347040.2149	2924900.265	334.9278	409	347465.3385	2924536.678	337.3728
76	347044.3915	2924897.516	334.9228	410	347469.5151	2924533.93	337.3678
77	347048.5682	2924894.767	334.9178	411	347473.6917	2924531.181	337.3628
78	347052.7448	2924892.018	334.9128	412	347477.8684	2924528.432	337.3578
79	347056.9214	2924889.27	334.9078	413	347482.045	2924525.683	337.3528
80	347061.0981	2924886.521	334.9028	414	347486.2216	2924522.935	337.3478
81	347065.2747	2924883.772	334.8978	415	347490.3983	2924520.186	337.3428
82	347069.4513	2924881.023	334.8928	416	347494.5749	2924517.437	337.3378
83	347073.628	2924878.274	334.8878	417	347498.7515	2924514.688	337.3328
84	347077.8046	2924875.525	334.8828	418	347502.9282	2924511.939	337.3278
85	347081.9812	2924872.777	334.8778	419	347507.1048	2924509.191	337.3228
86	347086.1579	2924870.028	334.8728	420	347511.2814	2924506.442	337.3178
87	347090.3345	2924867.279	334.8678	421	347515.4581	2924503.693	337.3128
88	347094.5111	2924864.531	334.8628	422	347519.6347	2924500.944	337.3078
89	347098.6878	2924861.782	334.8578	423	347523.8113	2924498.196	337.3028
90	347102.8644	2924859.033	334.8528	424	347527.988	2924495.447	337.2978
91	347107.041	2924856.284	334.8478	425	347532.1646	2924492.698	337.2928
92	347111.2177	2924853.536	334.8428	426	347536.3412	2924489.949	337.2878
93	347115.3943	2924850.787	334.8378	427	347540.5179	2924487.201	337.2828
94	347119.5709	2924848.038	334.8328	428	347544.6945	2924484.452	337.2778
95	347123.7476	2924845.289	334.8278	429	347548.8711	2924481.703	337.2728
96	347127.9242	2924842.541	334.8228	430	347553.0478	2924478.954	337.2678
97	347132.1008	2924839.792	334.8178	431	347557.2244	2924476.205	337.2628
98	347136.2775	2924837.043	334.8128	432	347561.401	2924473.457	337.2578
99	347140.4541	2924834.294	334.8078	433	347565.5777	2924470.708	337.2528
100	347144.6307	2924831.545	334.8028	434	347569.7543	2924467.959	337.2478
101	347148.8074	2924828.797	334.7978	435	347573.9309	2924465.21	337.2428
102	347152.984	2924826.048	334.7928	436	347578.1076	2924462.462	337.2378
103	347157.1606	2924823.299	334.7878	437	347582.2842	2924459.713	337.2328
104	347161.3373	2924820.55	334.7828	438	347586.4608	2924456.964	337.2278
105	347165.5139	2924817.802	334.7778	439	347590.6375	2924454.215	337.2228
106	347169.6905	2924815.053	334.7728	440	347594.8141	2924451.467	337.2178
107	347173.8672	2924812.304	334.7678	441	347598.9907	2924448.718	337.2128
108	347178.0438	2924809.555	334.7628	442	347603.1674	2924445.969	337.2078
109	347182.2204	2924806.807	334.7578	443	347607.344	2924443.22	337.2028
110	347186.3971	2924804.058	334.7528	444	347611.5206	2924440.472	337.1978
111	347190.5737	2924801.309	334.7478	445	347615.6973	2924437.723	337.1928
112	347194.7503	2924798.56	334.7428	446	347619.8739	2924434.974	337.1878
113	347198.927	2924795.811	334.7378	447	347624.0506	2924432.225	337.1828
114	347203.1036	2924793.063	334.7328	448	347628.2272	2924429.476	337.1778
115	347207.2802	2924790.314	334.7278	449	347632.4039	2924426.727	337.1728
116	347211.4569	2924787.565	334.7228	450	347636.5805	2924423.978	337.1678
117	347215.6335	2924784.816	334.7178	451	347640.7572	2924421.229	337.1628
118	347219.8101	2924782.068	334.7128	452	347644.9338	2924418.48	337.1578
119	347223.9868	2924779.319	334.7078	453	347649.1105	2924415.731	337.1528
120	347228.1634	2924776.57	334.7028	454	347653.2871	2924412.982	337.1478
121	347232.34	2924773.821	334.6978	455	347657.4638	2924410.233	337.1428
122	347236.5167	2924771.073	334.6928	456	347661.6404	2924407.484	337.1378
123	347240.6933	2924768.324	334.6878	457	347665.8171	2924404.735	337.1328
124	347244.8699	2924765.575	334.6828	458	347670.0000	2924401.986	337.1278
125	347249.0466	2924762.826	334.6778	459	347674.1800	2924399.237	337.1228
126	347253.2232	2924760.077	334.6728	460	347678.3600	2924396.488	337.1178

الرفع المساحي مستخلص جاري (٢)

Point	Easting	Northing	Elevation	Point	Easting	Northing	Elevation
253	346813.7836	2924965.486	334.1528	587	347354.3555	2924777.319	336.0978
254	346817.9602	2924962.738	334.1478	588	347358.5321	2924774.57	336.0928
255	346822.1369	2924959.989	334.1428	589	347362.7087	2924771.821	336.0878
256	346826.3135	2924957.24	334.1378	590	347366.8854	2924769.072	336.0828
257	346830.4901	2924954.491	334.1328	591	347371.062	2924766.324	336.0778
258	346834.6668	2924951.743	334.1278	592	347375.2386	2924763.575	336.0728
259	346838.8434	2924948.994	334.1228	593	347379.4153	2924760.826	336.0678
260	346843.02	2924946.245	334.1178	594	347383.5919	2924758.077	336.0628
261	346847.1967	2924943.496	334.1128	595	347387.7685	2924755.329	336.0578
262	346851.3733	2924940.747	334.1078	596	347391.9452	2924752.58	336.0528
263	346855.5499	2924937.999	334.1028	597	347396.1218	2924749.831	336.0478
264	346859.7266	2924935.25	334.0978	598	347400.2984	2924747.082	336.0428
265	346863.9032	2924932.501	334.0928	599	347404.4751	2924744.334	336.0378
266	346868.0798	2924929.752	334.0878	600	347408.6517	2924741.585	336.0328
267	346872.2565	2924927.004	334.0828	601	347412.8283	2924738.836	336.0278
268	346876.4331	2924924.255	334.0778	602	347417.005	2924736.087	336.0228
269	346880.6097	2924921.506	334.0728	603	347421.1816	2924733.338	336.0178
270	346884.7864	2924918.757	334.0678	604	347425.3583	2924730.59	336.0128
271	346888.963	2924916.009	334.0628	605	347429.5349	2924727.841	336.0078
272	346893.1396	2924913.26	334.0578	606	347433.7115	2924725.092	336.0028
273	346897.3163	2924910.511	334.0528	607	347437.8882	2924722.343	335.9978
274	346901.4929	2924907.762	334.0478	608	347442.0648	2924719.595	335.9928
275	346905.6695	2924905.013	334.0428	609	347446.2414	2924716.846	335.9878
276	346909.8462	2924902.265	334.0378	610	347450.4181	2924714.097	335.9828
277	346914.0228	2924899.516	334.0328	611	347454.5947	2924711.348	335.9778
278	346918.1994	2924896.767	334.0278	612	347458.7713	2924708.6	335.9728
279	346922.3761	2924894.018	334.0228	613	347462.948	2924705.851	335.9678
280	346926.5527	2924891.27	334.0178	614	347467.1246	2924703.102	335.9628
281	346930.7294	2924888.521	334.0128	615	347471.3012	2924700.353	335.9578
282	346934.906	2924885.772	334.0078	616	347475.4779	2924697.604	335.9528
283	346939.0826	2924883.023	334.0028	617	347479.6545	2924694.856	335.9478
284	346943.2593	2924880.275	333.9978	618	347483.8311	2924692.107	335.9428
285	346947.4359	2924877.526	333.9928	619	347488.0078	2924689.358	335.9378
286	346951.6125	2924874.777	333.9878	620	347492.1844	2924686.609	335.9328
287	346955.7892	2924872.028	333.9828	621	347496.361	2924683.861	337.4278
288	346959.9658	2924869.279	333.9778	622	347500.5377	2924681.112	337.4228
289	346964.1424	2924866.531	333.9728	623	347504.7143	2924678.363	337.4178
290	346968.3191	2924863.782	333.9678	624	347508.8909	2924675.614	337.4128
291	346972.4957	2924861.033	333.9628	625	347513.0676	2924672.866	337.4078
292	346976.6723	2924858.284	333.9578	626	347517.2442	2924670.117	337.4028
293	346980.849	2924855.536	333.9528	627	347521.4208	2924667.368	337.3978
294	346985.0256	2924852.787	333.9478	628	347525.5975	2924664.619	337.3928
295	346989.2022	2924850.038	333.9428	629	347529.7741	2924661.87	337.3878
296	346993.3789	2924847.289	333.9378	630	347533.9507	2924659.122	337.3828
297	346997.5555	2924844.541	333.9328	631	347538.1274	2924656.373	337.3778
298	347001.7321	2924841.792	334.9278	632	347542.304	2924653.624	337.3728
299	347005.9088	2924839.043	334.9228	633	347546.4806	2924650.875	337.3678
300	347010.0854	2924836.294	334.9178	634	347550.6573	2924648.127	337.3628
301	347014.262	2924833.545	334.9128	635	347554.8339	2924645.378	337.3578
302	347018.4387	2924830.797	334.9078	636	347559.0105	2924642.629	337.3528
303	347022.6153	2924828.048	334.9028	637	347563.1872	2924639.88	337.3478
304	347026.7919	2924825.299	334.8978	638	347567.3638	2924637.132	337.3428
305	347030.9686	2924822.55	334.8928	639	347571.5404	2924634.383	337.3378
306	347035.1452	2924819.802	334.8878	640	347575.7171	2924631.634	337.3328
307	347039.3218	2924817.053	334.8828	641	347579.8937	2924628.885	337.3278
308	347043.4985	2924814.304	334.8778	642	347584.0703	2924626.136	337.3228
309	347047.6751	2924811.555	334.8728	643	347588.247	2924623.388	337.3178
310	347051.8517	2924808.807	334.8678	644	347592.4236	2924620.639	337.3128
311	347056.0284	2924806.058	334.8628	645	347596.6002	2924617.89	337.3078
312	347060.205	2924803.309	334.8578	646	347600.7769	2924615.141	337.3028
313	347064.3816	2924800.56	334.8528	647	347604.9535	2924612.393	337.2978
314	347068.5583	2924797.811	334.8478	648	347609.1301	2924609.644	337.2928
315	347072.7349	2924795.063	334.8428	649	347613.3068	2924606.895	337.2878

الرفع المساحي مستخلص جارى (٢)

Point	Easting	Northing	Elevation	Point	Easting	Northing	Elevation
316	347076.9115	2924792.314	334.8378	650	347617.4834	2924604.146	338.7828
317	347081.0882	2924789.565	334.8328	651	347621.66	2924601.398	338.7778
318	347085.2648	2924786.816	334.8278	652	347625.8367	2924598.649	338.7728
319	347089.4414	2924784.068	334.8228	653	347630.0133	2924595.9	338.7678
320	347093.6181	2924781.319	334.8178	654	347634.1899	2924593.151	338.7628
321	347097.7947	2924778.57	334.8128	655	347638.3666	2924590.402	338.7578
322	347101.9713	2924775.821	334.8078	656	347642.5432	2924587.654	338.7528
323	347106.148	2924773.073	334.8028	657	347646.7198	2924584.905	338.7478
324	347110.3246	2924770.324	334.7978	658	347650.8965	2924582.156	338.7428
325	347114.5012	2924767.575	334.7928	659	347655.0731	2924579.407	338.7378
326	347118.6779	2924764.826	334.7878	660	347659.2497	2924576.659	338.7328
327	347122.8545	2924762.077	334.7828	661	347663.4264	2924573.91	338.7278
328	347127.0311	2924759.329	334.7778	662	347667.603	2924571.161	338.7228
329	347131.2078	2924756.58	334.7728	663	347671.7796	2924568.412	338.7178
330	347135.3844	2924753.831	334.7678	664	347675.9563	2924565.664	338.7128
331	347139.561	2924751.082	334.7628	665	347680.1329	2924562.915	338.7078
332	347143.7377	2924748.334	334.7578	666	347684.3095	2924560.166	338.7028
333	347147.9143	2924745.585	334.7528	667	347688.4862	2924557.417	338.6978
334	347152.0909	2924742.836	334.7478	668	347692.6628	2924554.668	338.696
				669	347692.6628	2924554.668	338.6928

مخبر المساحة
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