مقايسة تقديرية

لأعمال طرق بالترتيب محطة الهاسمة مشروع القطار شرقه

(طريق 06 من المحطة رقم 0+000 الى المحطة 0+400 بطول 400 متر)

(طريق 08 من المحطة رقم 0+000 الى المحطة 0+886 بطول 886 متر)

تنفيذ الشركة الهندسية للطرق والكباري والصرف الصحي

رقم البند	بيان الأعمال	الوحدة	كمية طريق 06	كمية طريق 08	سعر الكمية	الإجمالي
1	أعمال الحفر					
1-1	يلتزم المقاول بأعمال الحفر باستخدام المعدات الميكانيكية في التربة المتماسكة مثل التربة الطينية وبمختلف أنواعها (باستثناء الصخور) باستخدام الجرافات والتراكتورات بقدرة الاسرائيلية المتوسطة في تسوية الطريق المطلوبة وكذلك اليدوية بالقدر اللازم للوصول الى المناسيب المطلوبة و(25 %) من الكمية الحفر المطلوبة (الكمية المقدرة) يتحمل على البند تحميل ونقل الأتربة الزائدة المسافة 500 متر من محور الطريق و يتم تنفيذ هذه البند بالمناسيب الطبيعية والقطاعات الطولية العرضية و الرسومات التفصيلية المعتمدة والبند يشمل جميع متطلبات هذه الأعمال المتعاقد عليها ويوافق عليها الجهة المالكة الطرق والكباري ومكاتب الهندسي المشرف. - يتم الحساب حكرة (بالمتر المكعب) م³	م³	14,617	30,484	26	1,171,326
2	أعمال الدفان					
2-1	يلتزم المقاول بأعمال تحميل ونقل التربة الناتجة من الحفريات للمناطق المطلوبة للردم حسب المواصفات والمخططات باستخدام آلات التسوية بسمك لا يزيد عن 25 سم بالاضافة للمناسيب التصميمي لشامل الجسر و الانتفاخ (نسبة تحمل التطبيق) لا تقل عن 18 %) و رشها بالمياه الاسرائيلية الموصول الى نسبة الرطوبة المطلوبة والمعدات اليدوية بالقدر اللازم للوصول الى الحد الأقصى لكثافة جافة (95 % من الكثافة الجافة القصوى) ويتم الكثافة طبقا للمناسيب التصميمية والقطاعات العرضية الطولية و الرسومات التفصيلية المعتمدة والبند يشمل جميع متطلبات هذا البند بالحصول على الموافقة ومواصلات اللازمة للطرق و الكباري وتعليمات المهندس المشرف - مسافة النقل حتى 2 كم - يتم الحساب حكرة لكل 1 كم زيادة وذلك حتى مسافة نقل 100 كم و كل 1 كم زيادة عن مسافة نقل 100 كم . - السعر يشمل التشوين والتفليط الخارجي لم النقل مرة اخرى للقطاع.	م³	10,168	28,567	44	1,701,790
3	طبقات الاساس					
3-1	يلتزم المقاول بعمل توريد وفرش طبقة تأسيس من الاحجار المحلية المكسرة الذي تكسير المحجرات والمطابقة لمواصفات والتدرج الوارد بالاشتراطات الفنية والمتضمنة بالمشروع (كل نسبة تمتص كباكوريتها من 30 % و 40 % وما فوق نسبة كذلك يوفر لوس انجلوس من 40 % و 45 % وما فوق نسبة الاستهلاك عن 18 % وتوريدها على طبقتين باستخدام آلات التسوية الحديثة على ان لا يزيد سمك الطبقة بعد تمام الدمك عن 15 سم و رشها بالمياه الاسرائيلية للوصول الى نسبة الرطوبة المطلوبة والمعدات اليدوية بالقدر اللازم للوصول الى الحد الأقصى لكثافة جافة (95 % من الكثافة القصوى) من الكثافة القصوى و الدمك تشمل أجراء التجارب المعملية والحقلية ويتم تنفيذ طبقا للأصول الصناعة والرسومات التفصيلية المعتمدة وأيضا جميع متطلبات طبقا للمواصفات الفنية للمشروع وتقارير الاستشاري وتعليمات المهندس المشرف - مسافة النقل 20 كم - يحتسب حكرة 20 كم جنية لكل 1 كم زيادة وذلك حتى مسافة نقل 100 كم و 1 جنية لكل 1 كم زيادة عن مسافة نقل (100 كم - السعر يشمل قيمة المواد الخصومية و على الشركة المقاولة تقديم ما يثبت من الجهات الرسمية المشرفة على المعاير	م³	1,150	-	210	237,300
	الإجمالي					3,110,376

وزارة النقل
الهيئة العامة للطرق والكبارى والنقل البرى

محضر اعتماد حصر كميات

SPECTRUM CONSULTING
GARB Consultant

التاريخ : 2024-03-06

اسم المشروع : مشروع أعمال طرق الاقتراب لمحطة العاصمة الادارية الجديدة

1-**(طريق 6)** بطول 400 متر من محطة 0+000 الي محطة 0+400

2-**(طريق 8)** بطول 886 متر من محطة 0+000 الي محطة 0+886

قام مكتب سبكترم للاستشارات الهندسية باعتماد الكميات الخاصة بشركة **الهندسية للطرق والكباري والصرف الصحي.**

م	اسم الطريق	من المحطة رقم	الى المحطة رقم	التصنيف	الكمية بالمتر المكعب	ملاحظات
1	06	0+000	0+400	اعمال القطع	11890	-
2	06	0+000	0+400	اعمال الردم	9537	-
3	08	0+000	0+886	اعمال القطع	25535	-
4	08	0+000	0+886	اعمال الردم	3836	-

ملاحظات :-

كمية أجمالية مستخلص رقم 1 عقد رقم 2024/2023/529

مهندس الشركة المنفذة

م / احمد سعيد الله

استشارى الهيئة

SPECTRUM CONSULTING

مهندس الهيئة

الشركة الهندسية للطرق والكبارى والصرف الصحى
ب.ض : ٥٧٧ / ٦٤٨ / ٥٧٤
س.ت : ١٠٧٦٥

اعمال تنفيذ القطع والردم لمشروع طرق الاقتراب لمحطة العاصمة الادارية الجديدة
لطريق 6 من المحطه 0+000 كم الي المحطه 400+0 كم بطول 0.400كم,
وطريق 8 من المحطه 0+000 كم الي المحطه 886+0 كم بطول 0.886كم.

بيان باجمالى الاعمال التي من بداية العمل حتى تاريخه

القطاع	رقم البند بالمقايسة	بيان الاعمال	جاري 1 عقد رقم 529 / 2023 / 2024		الإجمالي
			طريق 06	طريق 08	
طرق اقتراب محطة العاصمة		اعمال الحفر			
	2_1	بالمتر المكعب اعمال حفر باستخدام المعدات الميكانيكية في التربة المتماسكة غير الصخرية (باستخدام البلدوزر) وتسوية السطح بالات التسوية والرش بالمياه الاصولية للوصول الى نسبة الرطوبة المطلوبة والدمك الجيد بالهزازات للوصول الى القص كثافة جافة (٩٥% من الكثافة الجافة القصوى) ويحمل على البند تحميل ونقل الاتربة الزائدة لمسافة ٢٠٠ متر من محور الطريق و يتم التنفيذ طبقا للمناسيب التصميمية والقطاعات العرضية النموذجية والرسومات التفصيلية المعتمدة والبند يجميع مشتملاتة طبقا لاصول الصناعة ومواصفات الهيئة العامة للطرق والكباري وتعليمات المهندس المشرف. وفي حالة زيادة مسافة نقل نواتج الحفر عن ٢٠٠ متر من محور الطريق يتم حساب ١ جنية لكل كيلومتر زيادة.	11,890	25,535	37,425
	3_1	اعمال الردم			
		بالمتر المكعب اعمال تحميل وتوريد ونقل تربة صالحة للردم من الصخور المعتمدة والمطابقة للمواصفات وتشغيلها باستخدام آلات التسوية بسمك لا يزيد عن ٢٥ سم لاستكمال المنسوب التصميمى لشكل الممر والاكتاف (نسبة تحمل كاليفورنيا لا تقل عن ١٠%) و رشها بالمياه الاصولية للوصول الى نسبة الرطوبة المطلوبة والدمك الجيد بالهزازات للوصول الى القص عثلة جافة (٩٥ % من الكثافة الجافة القصوى) ويتم التكلفة طبقا للمناسيب التصميمية والقطاعات العرضية النموذجية والرسومات التفصيلية المعتمدة والبند بجميع مشتملاتة طبقا لاصول الصناعة ومواصفات الهيئة العامة للطرق و الكباري وتعليمات المهندس المشرف 1-مسافة النقل حتى 2 كم 2-يتم احتساب خلاوة 1.4 جنيه لكل 1 كم زيادة وذلك حتى مسافة 100 كم و 1.2 جنيه زيادة عن مسافة نقل 100 كم 3-يتم زيادة سعر 5.0 جنيه في حالة استخدام بلدوزر في التحمير للارض المتماسكة وذلك طبقا لتحليل التربة 4-السعر لايشمل قيمة المادة المحمورية مع قيام الشركة المنفذة بتقديم ما يثبت من الجهات الرسمية المعتمدة المشرفة من المحاجر			
	6-3-1	مسافة النقل 30 كم	9,537	3,836	13,373

مهندس الشركه المنفذة

م / محمد سيد عبد الله

الشركة الهندسية للطرق والكباري والصرف الصحي
ب.ش.م : ٥٧٧ / ٦٤٨
س.ت : ٥٧٤ / ٢٠٧٦٥

استشاري الهيئة

SPECTRUM CONSULTING
سبكترم للاستشارات الهندسية

مهندس الهيئة

اعمال تنفيذ القطع والردم لمشروع طرق الاقتراب لمحطة العاصمة الادارية الجديدة
لطريق 6 من المحطه 0+000 كم الي المحطه 400+0 كم بطول 0.400كم,
وطريق 8 من المحطه 0+000 كم الي المحطه 886+0 كم بطول 0.886كم.

بيان أعمال مستخلص جارى 1 عقد رقم 2024/2023/529

القطاع	رقم البند بالمقايسة	بيان الاعمال	الكمية 100%	
		اعمال الحفر	طريق 06	طريق 08
طرق اقتراب محطة العاصمة	2_1	بالمتر المكعب اعمال حفر باستخدام المعدات الميكانيكية فى التربة المتماسكة عدا التربة الصخرية (باستخدام البلدوزر) وتسوية السطح بالات التسوية والرش بالمياه الاصولية للوصول الى نسبة الرطوبة المطلوبة والدمك الجيد بالهراسات للوصول الى اقصى كثافة جافة (٩٥% من الكثافة الجافة القصوى) ومحمل على البند تحميل ونقل الاتربة الزائدة لمسافة ٥٠٠ متر من محور الطريق و يتم التنفيذ طبقا للمناسيب التصميمية والقطاعات العرضية النموذجية والرسومات التفصيلية المعتمدة والبند بجميع مشتملاتة طبقا لاصول الصناعة ومواصفات الهيئة العامة للطرق والكبارى وتعليمات المهندس المشرف. وفي حالة زيادة مسافة نقل ناتج الحفر عن ٥٠٠ متر من محور الطريق يتم حساب ١ جنية لكل كيلومتر زيادة.	11,890	25,535
	3_1	اعمال الردم بالمتر المكعب اعمال تحميل وتوريد ونقل تربة صالحة للردم من المحاجر المعتمدة والمطابقة للمواصفات وتشغيلها باستخدام آلات التسوية بسمك لا يزيد عن ٢٥ سم لاستكمال المنسوب التصميمى لتشكيل الجسر والاكتاف (نسبة تحمل كاليفورنيا لا تقل عن ١٠%) و رشها بالمياه الاصولية للوصول الى نسبة الرطوبة المطلوبة والدمك الجيد بالهراسات للوصول الى اقصى كثافة جافة (٩٥ % من الكثافة الجافة القصوى) ويتم التنفيذ طبقا للمناسيب التصميمية والقطاعات العرضية النموذجية والرسومات التفصيلية المعتمدة والبند بجميع مشتملاتة طبقا لاصول الصناعة ومواصفات الهيئة العامة للطرق و الكبارى وتعليمات المهندس المشرف 1-مسافة النقل حتى 2 كم 2-يتم احتساب علاوة 1.4 جنيه لنقل 1 كم زيادة وذلك حتى مسافة 100 كم و 1.2 جنيه زيادة عن مسافة نقل 100 كم 3-يتم زيادة مبلغ 5.0 جنيه في حالة استخدام بلدوزر في التحجير للارض المتماسكة وذلك طبقا لتحليل التربة 4-السعر لايشمل قيمة المادة المحجرية مع قيام الشركة المنفذة بتقديم ما يثبت من الجهات الرسمية المعتمدة المشرفة عن المحاجر		
	6-3-1	مسافة النقل 30 كم	9,537	3,836

مهندس الشركه المنفذة

استشارى الهيئة

مهندس الهيئة

اعمال تنفيذ القطع والردم لمشروع طرق الاقتراب لمحطة العاصمة الادارية الجديدة
لطريق 6 من المحطه 0+000 كم الي المحطه 400+0 كم بطول 0.400كم.
وطريق 8 من المحطه 0+000 كم الي المحطه 886+0 كم بطول 0.886كم.

بيان أعمال مستخلص جارى 1 عقد رقم 2024/2023/529

القطاع	رقم البند بالمقايسة	بيان الاعمال	النسبة 100%		النسبة 95%	
		اعمال القطع	طريق 06	طريق 08	طريق 06	طريق 08
طرق الاقتراب لمحطة العاصمة	2_1	بالامتر المكعب اعمال حفر باستخدام المعدات الميكانيكية في التربة المتماسكة عدا التربة الصخرية (باستخدام البلدوزر) وتسوية السطح بالات التسوية والرش بالمياه الاصولية للوصول الى نسبة الرطوبة المطلوبة والدمك الجيد بالهراسات الوصول الى قصى كثافة جافة (٩٥% من الكثافة الجافة القصوى) وحمل على البلد تحميل ونقل الاتربة الزائدة لمسافة ٤٠٠ متر من محور الطريق و يتم التنفيذ طبقا لمناسيب التصميمية والقطاعات العرضية النموذجية والرسومات التفصيلية المعتمدة والبلد بجميع مشتملاتة طبقا لاصول الصناعة ومواصفات الهيئة العامة للطرق والكباري وتعليمات المهندس المشرف. وفي حالة زيادة مسافة نقل ناتج الحفر عن ٤٠٠ متر من محور الطريق يتم حساب ١ جنية لكل كيلومتر زيادة.	11,890.00	25,635.00	11,295.50	24,258.25
	3_1	اعمال الردم بالامتر المكعب اعمال تحميل وتوريد ونقل التربة صالحة للردم من المحاجر المعتمدة والمطابقة للمواصفات وتشغيلها باستخدام الات التسوية بسمك لا يزيد عن ٢٥ سم (باستثناء المنسوب التصميمي لتشكيل الجسر والاكتاف (التي تحمل بالبلدوزر)) نقل من ١٠%) و رشها بالمياه الاصولية للوصول الى نسبة الرطوبة المطلوبة والدمك الجيد بالهراسات للوصول الى قصى كثافة جافة (٩٥ % من الكثافة الجافة القصوى) ويتم التنفيذ طبقا للمناسيب التصميمية والقطاعات العرضية النموذجية والرسومات التفصيلية المعتمدة والبلد بجميع مشتملاتة طبقا لاصول الصناعة ومواصفات الهيئة العامة للطرق و الكباري وتعليمات المهندس المشرف 1-مسافة النقل حتي 2 كم 2-يتم احتساب علاوة 1.4 جنيه لكل 1 كم زيادة وذلك حتي مسافة 100 كم و 1.2 جنيه زيادة عن مسافة نقل 100 كم 3-يتم زيادة سعاج 5.0 جنيه في حالة استخدام بلدوزر في التمهير للارض المتماسكة وذلك طبقا للعائق التربة 4-السعر لايشمل قيمة المادة المحجرية مع قيام الشركة المنفذة بتقديم ما يثبت من الجهات الرسمية المعتمدة المشرفة عن المحاجر				
	6-3-1	مسافة النقل 36 كم	9,537.00	3,836.00	9,060.15	3,644.20

مهندس الشركه المنفذة

استشاري الهيئة

مهندس الهيئة

SPECTRUM CONSULTING
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سبكترم للاستشارات الهندسية

الشركة الهندسية
للطرق والكباري والصرف الصحي
ب ض : ٥٧٧ / ٦٤٨ / ٥٧٤
س ت : ١٠٧٦٥

محضر استلام موقع

بالاشارة الي العقد المبرم بين الهيئة العامة للطرق والكباري والشركة الهندسية للطرق والكباري والصرف الصحي رقم (529/2023/2024) بتاريخ 2023 / 10 / 18 بشأن اسناد تنفيذ اعمال طرق الاقتراب لمحطة العاصمة الادارية طريق(6) بطول400 متر& طريق (8)بطول 886 متر ضمن مشروع القطار الكهربائي السريع الخط الاول (العين السخنة – العاصمة الادارية – العلمين – مطروح)

فقد اجتمعت اللجنة يوم الخميس الموافق 19/10/2023 بحضور كلا من :

1- م/ ممثل الهيئة العامة للطرق والكباري

2- م/ حسن محمود الدحسن ممثل مكتب الاستشاري (د – عماد نبيل)

3- م/ محمد محمد عبد السميع ممثل الشركة المنفذة

وقامت اللجنة بالمرور علي المشروع عاليه ووجدت اللجنة انه لايوجد عوائق ظاهرية تعوق البدء في التنفيذ (الموقع خالي من العوائق) وعليه يكون تاريخ 19/10/2023 هو استلام الموقع للمشروع عاليه واقفل المحضر على ذلك .

التوقيعات :

م	الاسم	الوظيفة	التوقيع
1			
2	حسن محمود الدحسن	مدير المشروع استشاري	
3	محمد محمد عبد السميع	مدير مشروع	
4			

مشروع طرق الاقتراب محطه العاصمه الاداريه الجديده(مشروع القطار الكهربائي السريع)

طريق 06 من المحطة 000+0 الي المحطة 400+0 بطول 400 متر

محضر إحلال

انه في يوم الاحد الموافق 2022/11/27

قد مر استشاري المشروع(مكتب سبيكترم للاستشارات الهندسية)

بالقطاع(طريق 06 من محطة 000+0 الي محطة 400+0) وبالمعاينة وبعد أخذ جسات استكشافية للأرض الطبيعية تلاحظ ان(**التربة غير مطابقة لمواصفات المشروع**)

و عليه؛

فقد قرر استشاري المشروع ان تلتزم الشركة المنفذة بعمل احلال (**واحد متر من منسوب طبقة الفرمة**).

الشركة المنفذة	استشاري المشروع
(الهندسية للطرق والكباري)	مكتب سبيكترم للاستشارات الهندسية
مهندس/ محمد سيد عبدالله	مهندس/ ممدوح عابدين
التوقيع:	التوقيع:

الشركة الهندسية للطرق والكباري والصرف الصحي

مشروع طرق الاقتراب محطه العاصمه الاداريه الجديده(مشروع القطار الكهربائي السريع)

طريق 08 من المحطة 000+0 الى المحطة 885+0 بطول 885 متر

محضر إحلال

انه في يوم الاحد الموافق 2022/11/27

قد مر استشاري المشروع(مكتب سبيكترم للاستشارات الهندسية)

بالقطاع(طريق 08 من محطة 000+0 الى محطة 885+0) وبالمعاينة وبعد أخذ جسات استكشافية للأرض الطبيعية تلاحظ ان(**التربة غير مطابقة لمواصفات المشروع**)

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فقد قرر استشاري المشروع ان تلتزم الشركة المنفذة بعمل إحلال (**واحد متر من منسوب طبقة الفرمة**).

الشركة المنفذة	استشاري المشروع
(الهندسية للطرق والكباري)	مكتب سبيكترم للاستشارات الهندسية
مهندس/ محمد سيد عبدالله	مهندس/ ممدوح عابدين
التوقيع:	التوقيع:

الشركة الهندسية للطرق والكبارى والصرف الصحى

وزارة النقل
الهيئة العامة للطرق والكباري
والنقل البري

محضر معاينة و قياس مسافة توريد اتربة

مشروع طرق الاقتراب من محطه العاصمه الاداريه - الشركه الهندسية للطرق والكباري

إنه في يوم الثلاثاء الموافق 2023/5/23 إجتمعت اللجنة بحضور كلا من :-

1- م / محمد سامي (الهيئة العامة للطرق و الكباري).
2- م / عبداللطيف عطيه (الاستشاري العام سيسترا)
3- م / عاطف شامل (مهندس ضبط الجودة – مكتب سيكترم للإستشارات الهندسية).
4- محمد القطري (الشركة الهندسية للطرق والكباري – الشركة المنفذة)

و قـــامـــت اللـجـنـــة بالـــمـــرور علي الموقـــع المورد منه التراب للمشروع المذكور أعلاه بجوار منطقه محاجر ام قمر .

و بالمعاينة تم الذهاب للمحجر المذكور عن طريق الخدمة القديم الموازي لطريق السخنة السياحي وتبين أن المسافة المتوسطة بين موقع توريد التراب و محور القطاع عالية هي :-
30 كم (ثلاثون كيلو متر فقط لاغير) منها 6 كم مدق و 24 كم اسفلت

و أقفل المحضر علي ذلك .

اللجنة :- التوقيع :-

1- م / محمد سامي
2- م / عبداللطيف عطيه
3- م / عاطف شامل
4- محمد القطري

SPECTRUM CONSULTING

وزارة النقل
الهيئة العامة للطرق والكباري
والنقل البري

محضر تنسيق

انه في يوم الخميس الموافق 29/12/2022 فقد اجتمعت اللجنة بحضور كلا من :

1- م/ ممثل الهيئة العامة للطرق والكباري

2- م/ حسن محمود احمد ممثل مكتب الاستشاري (د – عماد نبيل)

3- م/ محمد سيد عبد الله ممثل الشركة المنفذة

وأفادت بأن طبقة الفيرما لطريق 6 بطول 400 متر من الجانب الأيمن من محطة 000+0 الي محطة 400+0 المسند تنفيذها الي الشركة الهندسية للطرق والكباري والتي تبلغ كميتها (1580 م3 اعمال حفر و 1580 م3 اعمال ردم) سيتم إعادة تنفيذها من قبل شركة المؤسسة الهندسية للأعمال المدنية (ايكو) وذلك لاسباب فنيه ولا مانع لدى الشركة الهندسية للطرق من تنفيذ شركة شركة المؤسسة الهندسية للأعمال المدنية (ايكو) لباقي الاعمال.

التوقيعات :

م	الاسم	الوظيفة	التوقيع
1			
2	حسن محمود احمد	مدير المشروع الاستشاري	
3	م/ محمد سيد عبد الله	مهندس مكتب فني	محمد سيد عبد الله
4			

SPECTRUM CONSULTING
سبكترم للاستشارات الهندسية

الشركة الهندسية
للطرق والكباري والصرف الصحي
ب.ض : ٥٧٧ / ٦٤٨ / ٥٧٤
س.ت : ١٠٧٦٥

UNIVERSAL INSPECTION REQUEST

RECEIPT of NOTIFICATION - Minimum Notice Period not less than 24 Hours

The Work described below will be complete and ready for inspection at planned time shown

Contractor Company		Designer Company	Spectrum
Issued by Contractor	Name: Mohamed sayed Sign:	Date	Time
Contractor IIR Reference	1		
Received by ER	Abdellatif Attia		UIR

C1	C2	C3	DD	MM	YY	HH	MM
E2	Su	123					

CODE-1 S1 to S21 Station Reference	CODE-1 D1 to S3 Depot Reference	CODE-1 KM MAK For Kilometric point only	CODE-2 Work Activity	CODE-3 Sub Element of Activity

EXPLANATION OF WORK TO BE INSPECTED

Area	Element	Item
ROAD-06 (0+600 TO 0+400)	FROM S1 (0+000) TO (0+700)	Layer Level ( )

Inspection Description :

INSPECTION DETAILS The Following will be ready at the Planned Inspection Time

Planned Inspection Date	Planned Inspection Time

COMPLIANCE EVIDENCE Must be Included as appropriate

Checklist Attached ☐	Test Results Attached☐	Calibration Attached☐	Other as indicated☐

Drawing Reference	ITP Reference	MS Reference
Other Attachments	Surveying sheets (Master sheets +cross sections + width sheet)	
Plan profile Rev	NA	NA

Comments by :GARB survey Consultant (XYZ)	Comments by: General Consultant (SYSTRA)
Surveying works (levels-Coords-width) Are inspection and found . work may	

INSPECTION RESULT

	Name	Sign	Date	Time	Approval Status A A/W C R	Please Tick if Not Attend
Organisation						
Contractor Engineer	Mohamed sayed				A	
Contractor QA/QC: XYZ						
Contractor QA/QC: Spectrum					A	
GARB*						
Employers Representative	Abdel-Latif Attia				A	

* Augment Boulgos Garden Bay

Instructions for Use:

☐ The Contractor should continue work using their CHECKLIST of inspection items progressively

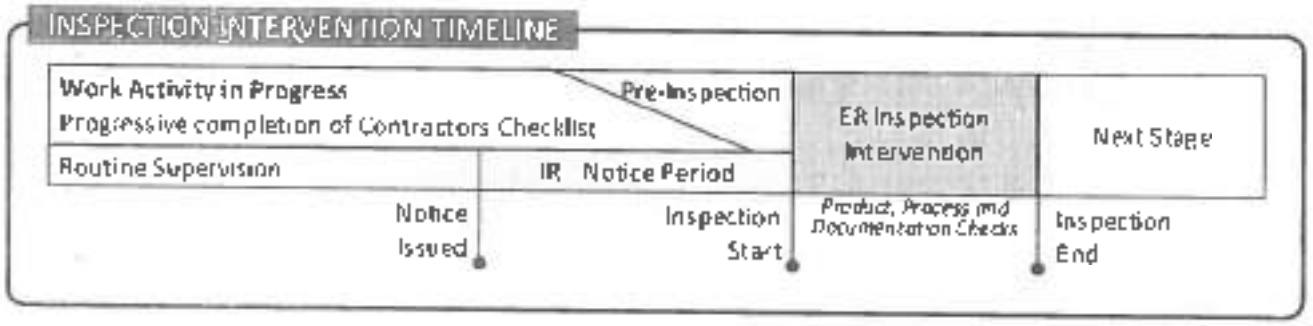
☐ The Contractor should do their own INTERNAL pre-inspection and correct any minor defects before final inspection and if necessary, advise Employer's Representative (ER) of possible delay to arrange correction. Contractor should update their CHECKLIST and their own INTERNAL Comments sheet to show the inspection is satisfactory completed.

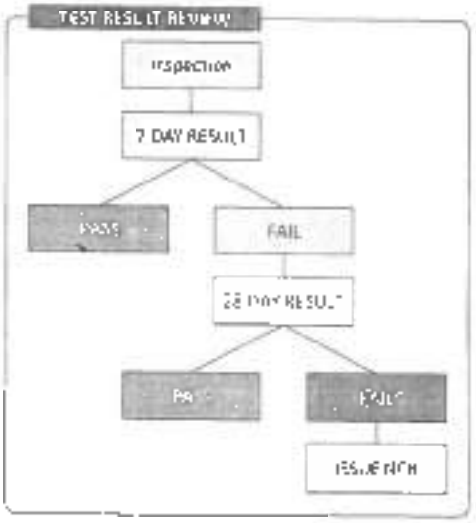
☐ The Contractor Engineer and their QA/QC team should sign the UIR Form before ER inspection. If the work is not ready, they should delay the inspection and not sign the UIR. Comments at this stage are not expected although eg: minor cleaning prior to concrete pour will be allowed

☐ The ER shall attend as indicated and check the Contractors supporting Drawings, Test results, Per-inspection signed sheets and check dimensions, alignment, workmanship, etc If satisfied ER shall sign the UIR Code A = Approved, or shall add relevant comments and add AWC = Approved with Comments and the next stage may progress when the comments have been resolved, or shall add R = Rejected as the work is not satisfactory and must be corrected and reinspected

AWC or R will require a new UIR Form to be issued and the inspection process will re-start at a new date/time

☐ When Approved without comments, the next stage of work may progress





Inspection COMMENTS must be factual

Delayed test results may apply to every discipline at an inspection. When available, may require inspection records to be reviewed for previous work.

It is known that tests results taken during inspection will be available at some date in the future (eg 7 and 28 Days).

The purpose of the UIR is to verify the work stage is ready to progress now. If the Work is ready to progress at the Inspection, then it must be Approved and allowed to progress without comment. This is to avoid returning to old AWC records and revise to A.

Review of Test Results is just another stage of the work activity, and result reviews have their own lifecycle. The test results shall be assessed when available, and if they fail to meet the necessary compliance requirements, an **NCR shall be issued** to track the correction process.

وزارة النقل

مشروع انجاز القطار السريع
القطاع (طريق 06) من المحطة 0+000 إلى المحطة 0+400

Inspection Request

طلب رقم	صدر
1	

التاريخ	
2022/	1

- مرفق الرفع المساحي (عدد ورقة)

رفع شبكية ارض طبيعية من المحطة 0+000 إلى 0+400

مهندس المكتب الفني	مدير المشروع

ملاحظات الاعتماد:

يعتمد (A)	يعتمد مع تذكر الملاحظات (B)	يعاد التقديم مع تكرار الملاحظات رقم مختلفة (C)	مرفوض (D)
☐	☐	☐	☐

شركة الصفاة الهندسية لطرق وانفاق والصرف الصحي	مكتب المساحة المكتب INVE	استشاري هندسي (المكتب الاستشاري)
الاسم: [illegible]	الاسم: أكرم الصنوبر	الاسم:
التوقيع:	التوقيع:	التوقيع:
التاريخ:	التاريخ: مشروع القطار السريع - قطاع الواحة	التاريخ: 2022/10/6

شركة الصفاة الهندسية
للطرق والجسور والصرف الصحي
ب ص ٥٧٢ / ٦٤٨ / ٥٧٢

محضر استلام الميزانية الشبكية من الشركات المنفذة

التاريخ: / /2022

اسم المشروع: مشروع القطار السريع (العين السخنة – العلمين)

قامت شركة اكس واي زد (X,Y,Z) للاعمال المساحية (استشاري الاعمال المساحية لهيئة الطرق و الكباري) باستلام الميزانية الشبكية من شركة/ الهندسية للطرق والكباري والمسرف الصحي

طريق رقم/ 06

من المحطه رقم 01+000 الي المحطه رقم 04+700

بنود مهمة يجب ان يتم استيفائها قبل الاستلام:

- يتم استلام البيانات بعد الانتهاء من الرصد مباشرة من الجهاز المستخدم باي صيغة.(RAW DATA)
- يتم اعتماد طريقة الميزانية المنتظمة و المتقدمة فقط في مشروع القطار الكهربائي السريع.
- يتم اعتماد الارصاد و الميزانيات المرفوعة بأجهزة مفحوصة و لها شهادات معايرة سارية حديثة فقط لا تقل مدة اخر معايرة للجهاز عن 3 اشهر.
- يتم مراجعة شهادات المعايرة مع التوكيل بشكل مباشر و في حالة ظهور شهادات مزورة يتم استبعاد الجهاز و الشخص المسؤول فورا.
- يجب ان يكون القائم بأعمال الميزانية الشبكية من المتخصصين في مجال المساحة و له خبرة مناسبة.
- تتم مطابقة و استلام الاعمال في الموقع و في حالة عدم مطابقة المنصوب في اكثر من 4 اماكن موزعين في المنطقة , لا يتعهد بالميزانية الشبكية و تتم اعادة رصدها.

ملاحظات :-

الاسم: محمد حسب الله

التوقيع:

الشركة المنفذة: الشركة الهندسية للطرق والكباري والمسرف الصحي

الاسم:

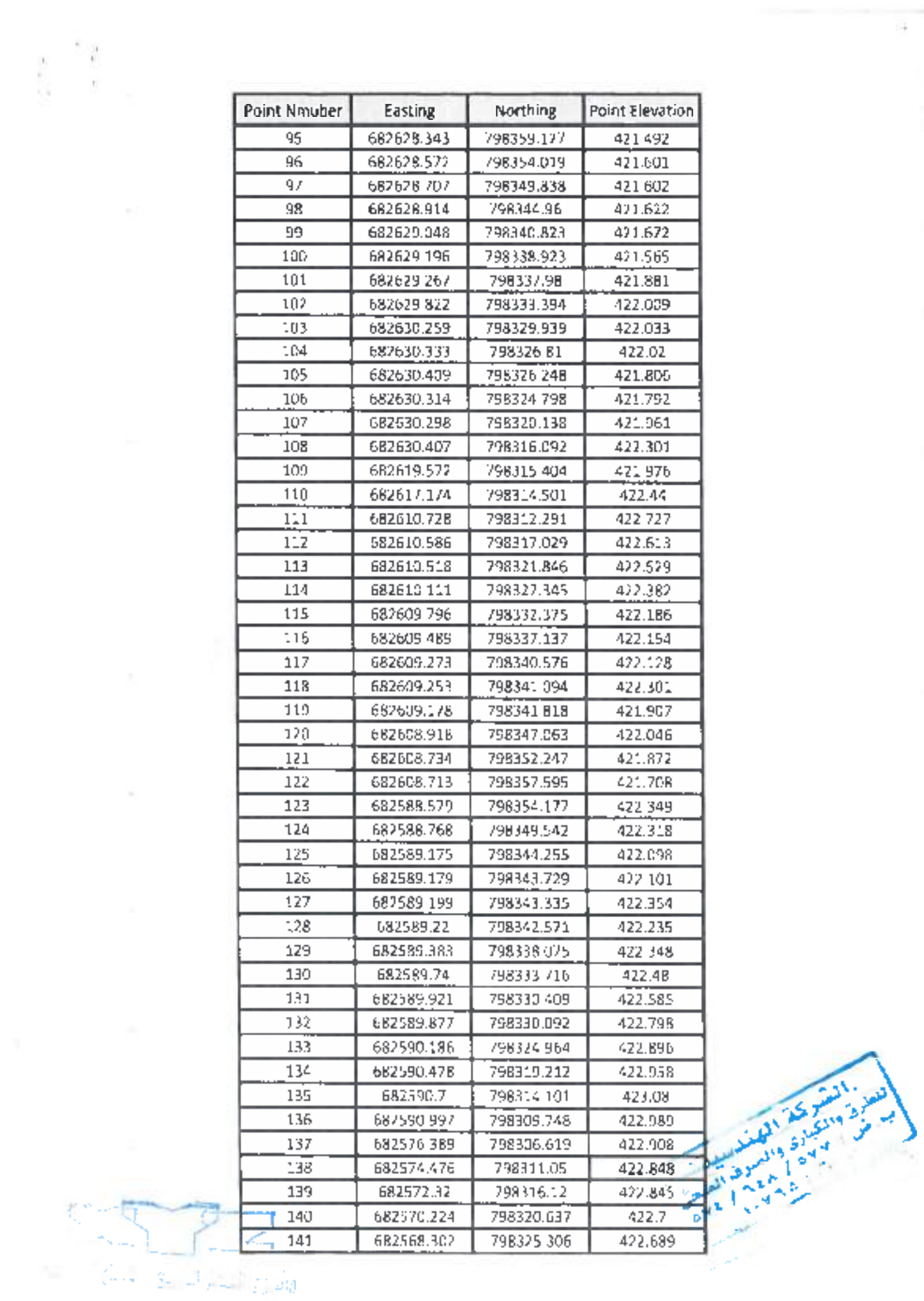
التوقيع:

استشاري المساحة مكتب XYZ

Point Nmuber	Easting	Northing	Point Elevation
1	682786.49	798384.041	421.679
2	682786.69	798378.303	422.001
3	682787.045	798372.023	421.992
4	682787.225	798366.942	421.967
5	682787.615	798361.583	421.979
6	682788.157	798356.937	422.115
7	682788.272	798352.351	422.339
8	682788.629	798347.552	422.411
9	682768.907	798342.471	422.451
10	682788.975	798338.105	422.256
11	682763.454	798337.137	422.511
12	682766.263	798341.096	422.591
13	682768.827	798344.742	422.556
14	682769.018	798348.451	422.443
15	682768.231	798353.5	422.413
16	682767.681	798358.041	422.43
17	682767.349	798362.773	422.216
18	682767.13	798367.752	422.008
19	682767.225	798369.718	422.052
20	682767.263	798375.556	421.962
21	682767.189	798380.365	421.927
22	682747.111	798375.617	421.972
23	682747.464	798370.884	422.15
24	682747.599	798366.835	422.177
25	682748.176	798361.707	422.245
26	682748.681	798357.759	422.334
27	682748.954	798353.228	422.398
28	682748.922	798352.484	422.611
29	682749.396	798348.294	422.265
30	682749.4	798344.945	422.319
31	682746.906	798341.812	422.39
32	682748.056	798330.64	422.557
33	682749.13	798332.221	422.869
34	682726.894	798328.783	422.845
35	682726.767	798333.904	422.707
36	682726.585	798338.448	422.662
37	682726.306	798343.68	422.551
38	682726.559	798348.677	422.471
39	682727.105	798353.427	422.466
40	682727.483	798355.572	422.475
41	682727.744	798359.364	422.12
42	682728.323	798364.068	422.061
43	682728.778	798366.168	422.146
44	682729.041	798366.601	422.367
45	682729.302	798367.012	422.251
46	682730.392	798370.535	422.112
47	682731.382	798375.59	422.039

Point Nmuber	Easting	Northing	Point Elevation
48	682707.454	798372.032	421.904
49	682707.539	798367.986	422.391
50	682707.507	798367.257	422.285
51	682707.859	798361.162	422.422
52	682708.015	798355.466	422.492
53	682708.241	798350.391	422.619
54	682708.79	798345.499	422.701
55	682709.07	798340.742	422.695
56	682709.512	798336.117	422.754
57	682709.918	798330.89	422.826
58	682710.137	798326.056	422.821
59	682692.988	798325.651	422.478
60	682692.468	798329.886	422.486
61	682692.067	798333.282	422.93
62	682691.487	798338.209	422.957
63	682690.725	798342.705	423.027
64	682689.735	798347	422.947
65	682689.325	798352.357	422.72
66	682687.965	798358.241	422.483
67	682687.348	798363.581	422.564
68	682686.363	798368.623	422.341
69	682672.834	798366.465	422.539
70	682666.437	798363.586	421.682
71	682667.648	798359.673	421.545
72	682668.392	798355.434	421.626
73	682669.464	798350.805	421.733
74	682670.437	798345.776	421.682
75	682671.122	798341.529	421.638
76	682671.634	798337.611	421.809
77	682672.074	798334.13	422.264
78	682672.388	798330.642	422.302
79	682672.983	798325.727	422.296
80	682673.204	798322.223	422.329
81	682673.149	798321.267	422.021
82	682650.185	798316.872	422.75
83	682649.993	798321.496	422.627
84	682649.949	798327.52	422.322
85	682649.534	798332.348	422.255
86	682649.224	798336.445	422.371
87	682649.196	798337.323	422.035
88	682648.993	798341.552	422.005
89	682648.964	798345.179	421.884
90	682648.726	798346.371	422.548
91	682648.553	798347.858	421.962
92	682648.46	798352.611	421.889
93	682648.275	798357.627	421.824
94	682647.971	798362.17	421.702

Point Nmuber	Easting	Northing	Point Elevation
95	682628.343	798359.177	421.492
96	682628.572	798354.019	421.601
97	682628.707	798349.838	421.602
98	682628.914	798344.96	421.622
99	682629.048	798340.823	421.672
100	682629.196	798338.923	421.565
101	682629.267	798337.98	421.881
102	682629.822	798333.394	422.009
103	682630.259	798329.939	422.033
104	682630.333	798326.81	422.02
105	682630.409	798326.248	421.805
106	682630.314	798324.798	421.752
107	682630.298	798320.138	421.961
108	682630.407	798316.092	422.301
109	682619.572	798315.404	421.976
110	682617.174	798314.501	422.44
111	682610.728	798312.291	422.727
112	682610.586	798317.029	422.613
113	682610.518	798321.846	422.529
114	682610.111	798327.345	422.382
115	682609.796	798332.375	422.186
116	682605.485	798337.137	422.154
117	682609.273	798340.576	422.128
118	682609.253	798341.094	422.302
119	682609.178	798341.818	421.907
120	682608.918	798347.063	422.046
121	682608.734	798352.247	421.872
122	682608.713	798357.595	421.708
123	682588.579	798354.177	422.349
124	682588.768	798349.542	422.318
125	682589.175	798344.255	422.098
126	682589.179	798343.729	422.101
127	682589.199	798343.335	422.354
128	682589.22	798342.571	422.235
129	682589.383	798338.075	422.348
130	682589.74	798333.716	422.48
131	682589.921	798330.409	422.585
132	682589.877	798330.092	422.798
133	682590.186	798324.964	422.896
134	682590.478	798319.212	422.958
135	682590.7	798314.101	423.08
136	682590.997	798309.748	422.980
137	682576.389	798306.619	422.908
138	682574.476	798311.05	422.848
139	682572.32	798316.12	422.845
140	682570.224	798320.037	422.7
141	682568.302	798325.306	422.689



Point Nmuber	Easting	Northing	Point Elevaton
142	682566.504	798329.934	422.647
143	682565.963	798331.948	422.608
144	682564.008	798337.495	422.536
145	682561.881	798341.806	422.49
146	682560.946	798345.945	422.475
147	682559.511	798350.03	422.395
148	682548.956	798347.468	422.439
149	682540.363	798342.463	422.489
150	682540.511	798338.421	422.514
151	682549.952	798333.225	422.452
152	682550.705	798328.053	422.549
153	682551.321	798322.872	422.611
154	682551.395	798317.773	422.732
155	682551.16	798313.333	422.775
156	682551.34	798308.524	422.821
157	682551.599	798303.895	423.004
158	682531.501	798301.879	423.037
159	682531.276	798306.798	423.078
160	682531.255	798310.62	423.111
161	682530.713	798315.838	422.893
162	682530.293	798320.256	422.955
163	682529.964	798321.376	422.729
164	682530.059	798326.294	422.449
165	682529.907	798331.399	422.184
166	682529.696	798335.472	422.079
167	682529.56	798338.386	422.039
168	682529.521	798339.172	422.279
169	682529.333	798344.722	422.235
170	682510.722	798341.011	421.71
171	682510.337	798336.751	421.734
172	682510.171	798333.557	421.89
173	682510.059	798332.509	422.387
174	682509.72	798331.72	422.294
175	682509.78	798323.704	422.74
176	682509.09	798321.957	422.047
177	682508.973	798317.065	422.434
178	682508.895	798313.789	422.569
179	682509.028	798311.513	423.798
180	682508.478	798308.072	424.435
181	682507.967	798304.024	422.938
182	682508.289	798301.387	422.828
183	682508.291	798300.101	423.485
184	682505.61	798298.908	423.751
185	682504.586	798298.301	422.071
186	682503.411	798297.288	422.493
187	682492.794	798297.528	422.56
188	682492.623	798301.391	422.39

Point Nmuber	Easting	Northing	Point Elevation
189	682491.572	798304.78	422.36
190	682491.166	798309.763	422.42
191	682490.742	798314.135	422.376
192	682490.403	798318.784	422.571
193	682490.132	798323.186	422.724
194	682489.897	798327.336	422.795
195	682490.105	798329.819	422.718
196	682490.174	798334.748	422.85
197	682489.609	798339.868	422.819
198	682469.548	798336.492	422.974
199	682470.083	798331.64	422.885
200	682470.181	798329.317	422.931
201	682470.178	798326.932	423.262
202	682469.959	798325.09	422.925
203	682470.486	798320.008	422.93
204	682470.938	798315.579	423.034
205	682471.335	798310.84	423.018
206	682471.663	798306.087	423.137
207	682472.007	798302.07	423.117
208	682473.018	798297.691	422.756
209	682474.248	798294.162	423.069
210	682452.329	798280.942	423.058
211	682452.234	798294.872	423.348
212	682452.061	798299.093	423.305
213	682451.573	798304.139	423.19
214	682451.444	798308.61	423.072
215	682451.152	798313.6	423.091
216	682450.767	798318.394	423.088
217	682450.554	798324.104	422.791
218	682450.414	798326.733	422.913
219	682450.207	798331.871	422.682
220	682430.414	798329.827	422.856
221	682430.514	798325.396	422.962
222	682430.752	798321.36	422.947
223	682431.045	798316.491	423.052
224	682431.3	798311.645	423.075
225	682431.323	798308.81	423.168
226	682431.477	798307.414	424.22
227	682431.696	798305.876	424.415
228	682431.191	798305.228	424.037
229	682431.308	798304.458	423.334
230	682431.402	798302.908	423.552
231	682431.348	798301.824	424.218
232	682431.44	798300.65	424.664
233	682431.525	798299.133	424.173
234	682431.64	798298.037	423.835
235	682431.435	798297.103	424.24

Point Nmuber	Easting	Northing	Point Elevation
236	682431.037	798296.116	424.65
237	682431.638	798294.029	424.027
238	682431.775	798291.999	424.496
239	682431.951	798290.587	424.212
240	682413.907	798283.133	423.933
241	682412.797	798283.574	424.522
242	682411.554	798284.217	424.826
243	682408.657	798285.285	423.981
244	682410.688	798287.785	423.963
245	682410.614	798290.56	424.809
246	682410.682	798292.125	424.44
247	682410.699	798293.405	423.608
248	682411.012	798296.603	423.664
249	682411.199	798298.277	424.079
250	682411.57	798299.374	424.243
251	682411.483	798300.229	424.202
252	682411.327	798301.598	423.497
253	682411.21	798302.6	423.463
254	682411.172	798303.674	424.025
255	682411.224	798305.014	424.518
256	682411.031	798305.903	424.518
257	682411.031	798306.41	424.046
258	682411.226	798307.718	423.285
259	682411.005	798312.708	423.212
260	682410.785	798316.964	423.234
261	682410.825	798317.918	423.484
262	682410.816	798318.799	424.092
263	682410.538	798320.2	424.307
264	682410.52	798321.479	423.872
265	682411.106	798323.278	423.658
266	682411.269	798324.287	423.172
267	682411.266	798326.771	423.634
268	682409.416	798328.442	422.461
269	682410.12	798329.541	422.453
270	682411.256	798330.548	422.466
271	682412.771	798331.544	422.423
272	682414.257	798332.42	422.416
273	682416.208	798332.908	422.51
274	682417.616	798333.148	422.606
275	682418.548	798333.534	422.74
276	682420.324	798333.622	422.756
277	682421.562	798333.89	422.709
278	682422.46	798334.358	422.815
279	682424.099	798334.822	422.757
280	682425.164	798334.955	422.834
281	682426.916	798334.206	422.802
282	682427.631	798333.408	422.66

الشركة الهندسية للمساحة والتكاري والعرف الصعي
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Point Nmuber	Easting	Northing	Point Elevation
283	682428.053	798332.182	422.742
284	682428.032	798331.148	422.772
285	682427.885	798330.059	422.850
286	682426.922	798328.237	422.849
287	682426.857	798327.185	422.887
288	682427.26	798325.79	422.919
289	682427.969	798325.084	422.985
290	682428.556	798324.156	423.055
291	682429.44	798322.571	422.905
292	682430.095	798321.71	422.936
293	682430.723	798320.119	422.898
294	682431.166	798318.99	422.969
295	682431.365	798317.711	423.016
296	682431.264	798316.596	423.065
297	682431.025	798314.687	423.001
298	682431.026	798313.552	423.048
299	682431.142	798312.44	423.089
300	682431.67	798310.551	423.044
301	682432.278	798309.408	423.117
302	682432.815	798308.564	423.175
303	682433.765	798306.831	423.144
304	682434.027	798305.563	423.202
305	682434.986	798304.039	423.257
306	682435.618	798303.169	423.224
307	682436.021	798301.984	423.3
308	682436.049	798300.811	423.363
309	682435.882	798299.747	423.414
310	682435.524	798298.006	423.411
311	682435.562	798296.982	423.448
312	682435.717	798295.38	423.456
313	682434.665	798294.442	423.395
314	682434.305	798293.153	423.453
315	682434.148	798291.453	423.568
316	682433.724	798290.503	423.548
317	682432.502	798289.761	423.906
318	682431.23	798289.493	423.966
319	682430.228	798289.127	423.825
320	682429.366	798288.583	423.849
321	682427.987	798287.587	424.444
322	682426.092	798287.054	424.31
323	682426.101	798285.578	424.101
324	682424.939	798285.429	424.127
325	682423.669	798284.8	424.013
326	682422.386	798283.465	423.874
327	682421.552	798282.877	423.949
328	682420.454	798282.968	423.927
329	682419.878	798283.977	424.096

Point Nmuber	Easting	Northing	Point Elevation
330	682419.035	798284.841	424.341
331	682417.933	798285.205	424.364
332	682416.930	798284.738	424.351
333	682415.048	798283.883	423.811
334	682414.57	798282.841	423.911
335	682413.823	798281.937	423.941
336	682413.132	798281.057	424.013
337	682412.291	798280.266	424.049
338	682411.727	798279.898	424.108
339	682410.122	798279.969	424.062
340	682408.6	798281.124	424.05
341	682408.195	798282.124	424.077
342	682408.098	798283.348	424.03
343	682408.684	798284.439	424.026
344	682408.082	798285.453	423.922
345	682409.025	798286.668	423.888
346	682408.649	798287.797	423.892
347	682408.041	798288.638	423.839
348	682407.284	798289.682	423.812
349	682406.582	798290.724	423.73
350	682406.031	798291.87	423.614
351	682405.375	798292.981	423.593
352	682404.582	798293.768	423.615
353	682403.882	798294.73	423.551
354	682404.014	798296.151	423.483
355	682404.296	798297.434	423.444
356	682405.086	798298.577	423.475
357	682406.24	798299.323	423.485
358	682406.905	798301.044	423.481
359	682405.162	798301.963	423.387
360	682403.904	798302.052	423.374
361	682403.005	798303.87	423.348
362	682402.903	798305.157	423.296
363	682403.087	798306.329	423.279
364	682403.454	798307.549	423.274
365	682404.057	798308.851	423.191
366	682404.539	798309.899	423.195
367	682404.458	798311.017	423.205
368	682404.074	798312.181	423.232
369	682403.815	798313.473	423.212
370	682403.626	798314.757	423.111
371	682403.279	798315.966	423.056
372	682402.837	798317.002	423.018
373	682402.527	798318.003	423.102
374	682402.716	798320.2	423.009
375	682403.596	798321.505	422.849
376	682404.633	798322.359	422.841

الشركة ... للمشروعات والتجارة ...

مشروع المنجم الصناعي - قطاع المنجم

Point Nmuber	Easting	Northing	Point Elevation
377	682405.728	798323.096	422.876
378	682406.43	798323.905	422.787
379	682407.07	798324.918	422.671
380	682407.893	798326.612	422.684
381	682408.753	798327.972	422.641
382	682409.7	798329.151	422.56
383	682410.333	798328.077	422.957
384	682411.348	798327.228	423.494
385	682411.992	798325.964	423.588
386	682413.027	798325.4	423.355
387	682414.017	798324.478	423.276
388	682415.141	798324.466	423.216
389	682416.1	798324.931	423.287
390	682416.918	798324.355	423.681
391	682417.287	798326.094	424.094
392	682418.032	798328.008	423.776
393	682419.06	798328.463	423.741
394	682419.792	798329.955	424.051
395	682420.576	798332.085	423.172
396	682421.531	798333.569	422.826
397	682422.414	798332.794	423.018
398	682423.462	798331.895	423.84
399	682424.4	798331.195	423.8
400	682425.722	798330.858	423.493
401	682426.442	798329.804	423.304
402	682426.949	798328.808	422.863
403	682425.593	798328.456	422.847
404	682424.887	798327.965	423.07
405	682423.989	798327.424	423.617
406	682423.74	798326.275	424.047
407	682423.686	798325.271	424.118
408	682424.936	798324.188	423.723
409	682425.754	798322.537	423.971
410	682426.787	798321.372	423.781
411	682425.827	798320.431	423.774
412	682427.365	798320.222	424.109
413	682428.219	798319.127	424.287
414	682429.728	798318.997	423.581
415	682431.298	798318.447	423.105
416	682431.326	798317.013	423.027
417	682430.596	798316.154	423.026
418	682429.618	798315.236	423.497
419	682428.356	798314.272	423.958
420	682427.338	798314.529	424.222
421	682427.178	798313.531	423.800
422	682426.503	798312.617	423.532
423	682425.525	798311.753	424.003

الشركة
للطرق والكباري

Point Nmuber	Easting	Northing	Point Elevation
424	682425.971	798312.721	423.642
425	682426.759	798311.437	423.678
426	682425.776	798310.723	424.076
427	682424.693	798310.825	424.194
428	682422.584	798310.68	424.133
429	682421.471	798309.971	424.35
430	682421.022	798309.049	423.856
431	682421.69	798307.856	423.226
432	682422.771	798307.372	423.374
433	682422.427	798306.379	423.505
434	682423.299	798305.831	424.317
435	682424.424	798305.837	424.652
436	682425.172	798306.988	424.384
437	682426.516	798306.665	423.817
438	682427.727	798306.681	423.473
439	682427.981	798305.622	423.483
440	682427.466	798304.639	423.339
441	682428.485	798304.302	423.587
442	682429.391	798303.31	423.901
443	682430.247	798302.425	424.249
444	682431.33	798302.231	424.394
445	682432.007	798300.081	424.693
446	682432.067	798299.04	424.34
447	682431.692	798297.68	424.027
448	682431.604	798295.883	424.577
449	682431.373	798294.565	424.524
450	682430.958	798293.563	424.456
451	682431.396	798291.925	424.626
452	682430.571	798291.265	424.651
453	682429.51	798291.524	424.463
454	682427.827	798291.508	424.709
455	682426.978	798292.239	424.789
456	682425.233	798292.771	424.963
457	682423.856	798292.54	423.675
458	682423.328	798293.539	423.638
459	682422.217	798293.284	423.82
460	682420.69	798293.631	424.282
461	682419.624	798294.63	424.537
462	682418.977	798295.775	424.41
463	682418.08	798297.461	424.103
464	682419.172	798298.519	424.53
465	682418.53	798299.453	424.316
466	682416.786	798299.605	423.634
467	682415.775	798300.564	424.145
468	682415.284	798301.788	424.587
469	682414.154	798302.319	424.433
470	682417.9	798301.661	424.039

Point Nmuber	Easting	Northing	Point Elevation
471	682411.564	798302.088	423.524
472	682411.783	798300.699	423.896
473	682411.726	798299.65	424.15
474	682412.062	798297.887	424.218
475	682412.315	798296.179	424.067
476	682412.471	798295.082	424.117
477	682412.46	798293.931	424.21
478	682411.797	798293.15	424.068
479	682410.677	798293.361	423.681
480	682409.733	798293.727	423.594
481	682408.687	798294.124	423.599
482	682408.75	798295.146	423.715
483	682408.267	798296.248	424.124
484	682407.921	798297.638	424.288
485	682407.616	798299.156	423.926
486	682407.055	798300.563	423.628
487	682406.973	798301.597	423.551
488	682407.361	798302.628	423.468
489	682406.822	798304.215	423.723
490	682406.317	798305.727	424.347
491	682406.479	798307.054	424.644
492	682406.696	798308.317	424.107
493	682405.328	798309.905	423.368
494	682405.838	798312.126	423.479
495	682406.343	798312.281	424.187
496	682406.854	798313.26	424.408
497	682405.963	798314.291	423.876
498	682406.523	798316.597	423.082
499	682407.552	798316.815	423.071
500	682405.4	798317.251	423.727
501	682405.972	798318.696	423.825
502	682407.013	798319.272	424.995
503	682407.56	798320.17	423.906
504	682409.037	798320.735	423.573
505	682410.148	798321.585	423.967
506	682410.463	798322.71	423.84
507	682411.179	798323.834	423.608
508	682411.895	798324.892	423.512
509	682412.436	798325.941	423.714
510	682422.365	798321.821	422.637
511	682421.849	798319.358	422.692
512	682419.418	798319.842	423.105
513	682416.915	798321.391	422.526
514	682414.285	798322.427	422.525
515	682414.964	798325.693	422.626
516	682417.214	798330.358	422.838
517	682415.865	798331.111	422.844

الشركة ... للعقارات والمقاولات ...

Point Nmuber	Easting	Northing	Point Elevation
518	682408.301	798320.917	422.847
519	682409.242	798317.527	422.788
520	682410.376	798315.319	422.827
521	682408.133	798314.741	422.836
522	682409.713	798312.631	422.913
523	682410.118	798310.333	422.953
524	682413.509	798310.533	423.022
525	682415.394	798307.784	423.015
526	682411.487	798307.604	423.011
527	682416.239	798311.961	423.303
528	682418.142	798312.093	423.244
529	682419.776	798312.519	422.908
530	682424.318	798315.413	422.898
531	682421.562	798317.328	422.977
532	682418.771	798318.651	423.637
533	682417.207	798317.735	423.699
534	682415.897	798317.887	423.152
535	682415.23	798316.725	422.969
536	682413.907	798315.329	423.746
537	682412.051	798316.047	423.533
538	682412.413	798312.639	422.015
539	682414.975	798307.427	422.996
540	682416.499	798305.117	423.351
541	682416.476	798303.083	423.609
542	682418.156	798301.43	423.503
543	682415.667	798302.364	423.172
544	682421.893	798302.608	423.771
545	682423.703	798303.122	423.824
546	682425.913	798301.636	423.562
547	682424.639	798299.43	423.161
548	682422.807	798298.849	423.291
549	682425.125	798297.087	423.815
550	682426.387	798297.626	424.693
551	682427.601	798298.66	424.1
552	682428.892	798298.914	423.526
553	682429.377	798296.643	423.219
554	682424.708	798287.659	423.704
555	682422.674	798288.113	424.356
556	682420.995	798287.745	424.274
557	682418.887	798288.455	424.038
558	682417.550	798288.475	424.298
559	682415.724	798286.865	424.42
560	682413.679	798286.139	424.037
561	682413.275	798288.611	423.543
562	682413.129	798291.356	423.4
563	682418.368	798292.403	423.763
564	682418.043	798293.779	424.507

الشركة
للطرق والكباري
ب. ص
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Point Nmuber	Easting	Northing	Point Elevation
565	682418.463	798295.415	424.241
566	682415.056	798296.545	423.289
567	682442.727	798313.577	422.35
568	682446.817	798314.307	422.585
569	682447.571	798310.219	422.596
570	682443.181	798310.415	422.407
571	682444.929	798312.543	423.716
572	682452.51	798302.089	423
573	682454.273	798306.179	422.904
574	682456.571	798307.575	423.066
575	682457.699	798303.083	422.847
576	682457.308	798301.088	422.949
577	682455.26	798299.437	423.062
578	682453.072	798299.92	423.072
579	682452.589	798302.509	422.954
580	682456.171	798307.269	423.08
581	682455.458	798303.999	423.689
582	682454.807	798301.484	424.335
583	682461.095	798313.715	422.819
584	682462.851	798315.523	422.712
585	682466.261	798315.747	422.756
586	682460.505	798314.658	422.885
587	682468.01	798311.771	422.821
588	682465.536	798310.641	422.792
589	682462.805	798309.913	422.707
590	682460.66	798313.644	422.734
591	682461.548	798312.512	422.911
592	682463.237	798312.826	423.866
593	682465.724	798313.473	423.474
594	682468.707	798314.415	423.139
595	682473.809	798310.717	422.745
596	682473.387	798313.672	422.79
597	682475.721	798313.543	422.755
598	682478.528	798312.83	422.682
599	682480.27	798311.393	422.665
600	682479.504	798309.373	422.589
601	682477.843	798307.845	422.569
602	682473.565	798310.705	422.685
603	682474.145	798312.749	423.014
604	682475.968	798311.495	423.585
605	682477.51	798310.437	423.801
606	682500.623	798299.982	422.277
607	682501.367	798304.54	422.[illegible]
608	682503.6	798307.719	422.037
609	682505.675	798311.645	422.[illegible]
610	682508.182	798313.834	422.522
611	682511.134	798312.614	422.465

الشركة الوطنية للاستشارات والتكنولوجيا والمسح
ب ص ٦٤٨ / ٥٧٧
١٠٧٦٥

Point Nmuber	Easting	Northing	Point Elevation
612	682514.978	798309.26	422.68
613	682517.939	798306.699	422.637
614	682518.947	798302.707	422.404
615	682518.779	798298.256	422.113
616	682519.345	798294.424	422.237
617	682516.915	798291.284	422.242
618	682513.754	798289.896	422.243
619	682511.146	798294.509	422.166
620	682507.127	798294.854	422.43
621	682503.836	798297.164	422.198
622	682500.592	798299.952	422.368
623	682502.603	798305.361	423.165
624	682504.472	798300.789	423.53
625	682505.294	798295.688	423.066
626	682503.797	798301.672	423.649
627	682505.591	798304.064	423.693
628	682506.275	798303.239	423.097
629	682507.087	798302.666	423.239
630	682507.475	798301.176	422.481
631	682509.072	798302.836	422.128
632	682509.715	798305.155	422.06
633	682508.032	798307.179	423.74
634	682508.934	798310.135	424.088
635	682500.867	798311.142	423.268
636	682511.081	798309.799	422.637
637	682511.996	798308.395	423.247
638	682513.87	798307.411	423.27
639	682515.196	798306.074	423.918
640	682516.406	798304.841	423.704
641	682516.629	798303.41	422.693
642	682516.743	798301.736	423.408
643	682515.759	798299.819	422.606
644	682516.468	798296.39	423.405
645	682515.566	798294.704	422.545
646	682514.848	798292.947	423.548
647	682513.422	798295.061	422.74
648	682512.38	798296.582	423.403
649	682511.478	798297.715	423.045
650	682510.167	798298.405	422.867
651	682509.134	798299.738	423.35
652	682508.069	798300.835	422.88
653	682510.594	798302.952	422.003
654	682512.908	798302.605	422.037
655	682513.415	798300.12	421.995
656	682511.731	798304.632	421.931
657	682482.45	798328.722	422.6
658	682481.487	798325.094	422.693

للمشروع القطار السريع - مصنع الجامعة

Point Nmuber	Easting	Northing	Point Elevation
659	682479.961	798327.802	422.714
660	682477.313	798323.726	422.692
661	682473.467	798323.943	422.63
662	682470.278	798324.995	422.676
663	682466.044	798326.767	422.68
664	682462.815	798328.716	422.705
665	682464.29	798332.049	422.683
666	682468.031	798331.708	422.608
667	682470.174	798329.553	422.624
668	682473.076	798330.289	422.607
669	682476.051	798330.28	422.501
670	682477.502	798328.525	422.503
671	682480.118	798330.367	422.559
672	682482.49	798328.699	422.603
673	682481.127	798327.917	423.252
674	682479.263	798326.078	423.837
675	682477.317	798326.519	423.265
676	682475.757	798327.275	423.151
677	682472.63	798327.541	423.99
678	682470.852	798327.85	423.362
679	682468.158	798328.747	423.101
680	682465.948	798329.79	423.979
681	682464.496	798330.291	423.244
682	682456.998	798331.998	422.734
683	682458.071	798329.666	422.562
684	682456.039	798326.931	422.487
685	682452.912	798327.665	422.559
686	682452.06	798330.338	422.7
687	682454.199	798332.015	422.737
688	682456.873	798332.564	422.527
689	682455.471	798330.71	423.304
690	682455.283	798329.409	423.867
691	682464.058	798324.457	424.668
692	682465.611	798321.693	422.622
693	682465.916	798319.585	422.715
694	682465.858	798317.961	422.73
695	682463.185	798318.371	422.744
696	682462.288	798320.44	422.73
697	682462.449	798322.204	422.755
698	682464.342	798323.88	422.837
699	682464.665	798320.117	423.584

الشركة الهندسية للطرق والكباري والمرافق العامة
ص.ب ٥٧٧ / ٦٤٨
٥٧٤ / ١٠٧٦٥
مشروع قطار التجمع - قطاع الخامسة

Point Nmuber	Easting	Northing	Point Elevation
700	682400.7513	798326.1789	423.12
701	682395.7278	798325.3279	423.12
702	682380.4914	798324.7108	423.12
703	682381.7426	798320.0404	422.89
704	682400.7278	798320.3279	422.89
705	682397.1894	798319.7488	422.8
706	682389.106	798320.7356	423.12
707	682383.3294	798319.7419	422.89
708	682400.7278	798315.3279	422.85
709	682397.0698	798315.7404	422.9
710	682390.7278	798315.3279	422.82
711	682384.7192	798314.4657	422.8
712	682400.7278	798310.3279	422.82
713	682395.7278	798310.3279	422.89
714	682392.2718	798311.8212	422.82
715	682385.7278	798310.3279	422.8
716	682400.7278	798305.3279	422.89
717	682395.7278	798305.3279	422.89
718	682392.3858	798306.7483	423.173
719	682385.7278	798305.3279	422.89
720	682400.7278	798300.3279	422.89
721	682395.7278	798300.3279	422.89
722	682392.5981	798300.4183	422.8
723	682385.7278	798300.3279	422.8
724	682400.7278	798295.3279	422.82
725	682395.7278	798295.3279	422.89
726	682392.0048	798294.5096	422.89
727	682385.7278	798295.3279	422.89
728	682400.7278	798290.3279	422.89
729	682395.7278	798290.3279	422.89
730	682392.6259	798290.0525	422.89
731	682385.7278	798290.3279	422.89
732	682402.517	798286.2629	422.93
733	682397.0698	798285.7404	422.93
734	682392.7325	798286.4296	422.93
735	682385.7278	798285.3279	422.82

الشركة الهندسية
للطرق والكباري والمساحة

UNIVERSAL INSPECTION REQUEST

RECEIPT of NOTIFICATION - Minimum Notice Period not less than 24 Hours

The Work described below will be complete and ready for inspection at planned time shown

Contractor Company			Designer Company	Spectrum	
Issued by Contractor	Name	Sign	Date	Time	
	Mohamed Sayed				
Contractor UIR Reference					
Received by ER	Abdallah Attia	AAttia	UIR	C1: S1 / C2: S2 / C3: 1st Rd	CD / MM / YY / HH / MM

CODE-1 S1 to S21 Station Reference	CODE-1 D1 to D3 Depot Reference	CODE-1 Ko XXX For Kilometer point only	CODE-2 Work Activity	CODE-3 Sub Elements of Activity

EXPLANATION OF WORK TO BE INSPECTED

Area	Element	Item
ROAD-03 (0+000 TO 0+400)	FROM ST (0+000) TO (0+100 : (Right + Left)	Layer Level (اسفلتية تاج)

Inspection Description :

INSPECTION DETAILS The Following will be ready at the Planned Inspection Time

Planned Inspection Date	Planned Inspection Time

COMPLIANCE EVIDENCE Must be included as appropriate

Checklist Attached ☐	Test Results Attached ☐	Calibration Attached ☐	Other as indicated ☐
Drawing Reference	ITP Reference	MS Reference	
Other Attachments	Surveying sheets (Master sheets (cross sections + width sheet)		
Plan-profile Rev	NA	NA	

Comments by: GARB survey Consultant (XYZ)	Comments by: General Consultant (SYSTRA)
Surveying works (levels-Coords-width) Are inspection and found : work may :	

	INSPECTION RESULT				Approval Status	Please Tick if Not Attend
Organisation	Name	Sign	Date	Time	A-AWC-R	
Contractor Engineer	Mohamed Sayed					
Contractor QA/QC: XYZ						
Contractor QA/QC: Spectrum						
GARB*						
Employers Representative	Abdallah Attia	AAttia			A	

* Alignment: Bridges & Tunnels Only

Instructions for Use:

☐ The Contractor should continue work using their CHECKLIST of inspection items progressively

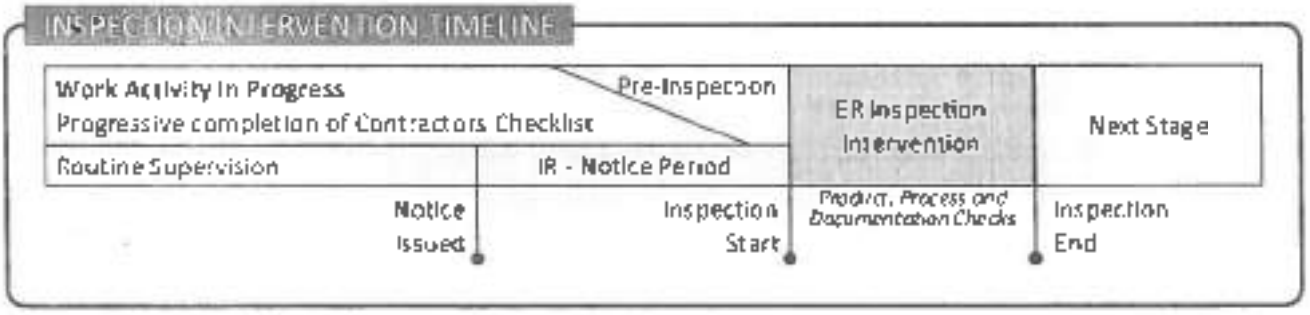
☐ The Contractor should do their own INTERNAL pre-inspection and correct any minor defects before final inspection and if necessary, advise Employer's Representative (ER) of possible delay to arrange correction. Contractor should update their CHECKLIST and their own INTERNAL Comments sheet to show the inspection is satisfactory completed

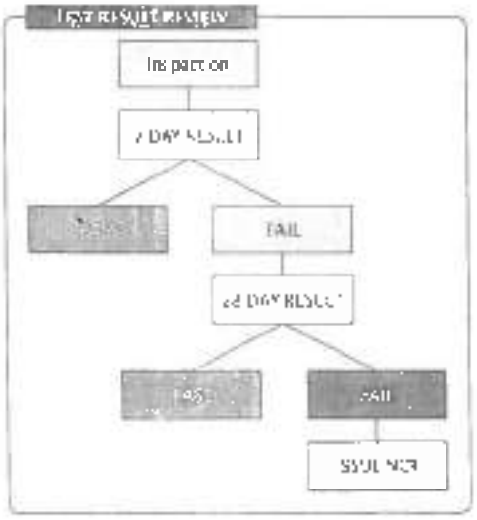
☐ The Contractor Engineer and their QA/QC team should sign the UIR Form before ER inspection. If the work is not ready, they should delay the inspection and not sign the UIR. Comments at this stage are not expected although eg: minor cleaning prior to concrete pour will be allowed

☐ The ER shall attend as indicated and check the Contractors supporting Drawings, Test results, Per-inspection signed sheets and check dimensions, alignment, workmanship, etc. If satisfied ER shall sign the UIR Code A – Approved, or shall add relevant comments and add AWC = Approved with Comments and the next stage may progress when the comments have been resolved, or shall add R = Rejected as the work is not satisfactory and must be corrected and reinspected

AWC or R will require a new UIR Form to be issued and the inspection process will re-start at a new date/time

☐ When Approved without comments, the next stage of work may progress





Inspection COMMENTS must be factual

Delayed test results may apply to every discipline at an inspection. When available, may require inspection records to be reviewed for previous work.

It is known that tests results taken during inspection will be available at some date in the future (eg 7 and 28 Days).

The purpose of the UIR is to verify the work stage is ready to progress now. If the Work is ready to progress at the Inspection, then it must be Approved and allowed to progress without comment. This is to avoid returning to old AWC records and revise to A.

Review of Test Results is just another stage of the work activity, and result reviews have their own lifecycle. The test results shall be assessed when available, and if they fail to meet the necessary compliance requirements, an NCR shall be issued to track the correction process.

وزارة النقل

مشروع انشاء القطار السريع
القطاع (طريق 06) من المحطة 0+000 الى المحطة 0+400

Inspection Request

طلب رقم	صدار
2	

التاريخ	
2021/ /	

- مرفق لرفع المعاينة (عدد ورقة)

رفع شبكة حاع من وضعه 0+000 الى وضعه 0+400 (Right Left)

مهندس المكتب الفني	مدير المشروع

ملاحظات الإعتماد:

بناء (A)	يعتمد مع تعليق الملاحظات (B)	يعاد التقديم مع عوامل الملاحظات وعدم التنفيذ (C)	مرفوض (D)
☐	☐	☐	☐

شركة المحطة الهندسية لطرق وتشييد وتعمير الصحراء	إعتماد المقاول العام (A) أو B	إستشاري الإشراف / المكتب الهندسي (المكتب المشرف)
الاسم: وحيد حسين الله	الاسم:	الاسم:
التوقيع:	التوقيع:	التوقيع:
التاريخ:	التاريخ:	التاريخ:

SPECTRUM CONSULTING

SPECTRUM

محضر استلام الميزانية الشبكية من الشركات المنفذة

التاريخ / /2022

اسم المشروع: مشروع القطار السريع (العين السخنة – العلمين)

قامت شركة اكس واي زد (X,Y,Z) للأعمال المساحية (استشاري الاعمال المساحية لهيئة الطرق و الكباري) باستلام الميزانية الشبكية من شركة الهندسية للطرق و الكباري والمصرف الصحي.

طريق رقم/ 06

من المحطه رقم 0+000 الى المحطه رقم 0+100 (Right Side & Left Side)

بنود مهمة يجب ان يتم استيفائها قبل الاستلام:

- يتم استلام الوقفات بعد الانتهاء من الرصد مباشرة من الجهاز المستخدم باي صيغة.(RAW DATA)
- يتم اعتماد طريقة الميزانية المنتظمة و المتقدمة فقط في مشروع القطار الكهربائي السريع.
- يتم اعتماد الارصاد و الميزانيات المرفوعة بأجهزة مفحوصة و لها شهادات معايرة سارية حديثة فقط لا تقل مدة اخر معايرة للجهاز عن 3 أشهر.
- يتم مراجعة شهادات المعايرة مع التوكيل بشكل مباشر و في حالة ظهور شهادات مزورة يتم استبعاد الجهاز و الشخص المسؤول فورا.
- يجب ان يكون القائم بأعمال الميزانية الشبكية من المتخصصين في مجال المساحة و له خبرة مناسبة.
- تتم مطابقة و استلام الاعمال في الموقع و في حالة عدم مطابقة المنصوب في اكثر من 4 اماكن موزعين في المنطقة , لا يعتمد بالميزانية الشبكية و تتم اعادة رصدها.

ملاحظات :-

الاسم: محمد عبد الله

التوقيع:

الشركة المنفذة الهيئة العامة للطرق و الكباري

الاسم: أ/ محمد المنوفي

التوقيع:

استشاري المساحة مكتب XYZ

POINT	E	N	Z
1	682371.44	798325.357	423.004
2	682371.277	798320.578	423.027
3	682371.101	798315.885	424.079
4	682371.031	798311.271	424.28
5	682371.027	798306.891	424.362
6	682371.373	798302.426	424.507
7	682371.915	798296.172	424.649
8	682372.181	798289.883	424.889
9	682372.625	798283.403	424.992
10	682375.08	798324.27	422.802
11	682374.586	798316.61	422.861
12	682374.359	798308.595	422.893
13	682375.405	798300.244	423.037
14	682384.748	798305.623	422.786
15	682384.366	798313.564	422.654
16	682383.031	798318.095	422.624
17	682383.025	798323.151	422.619
18	682383.021	798326.038	422.653
19	682392.466	798326.125	422.581
20	682392.034	798321.126	422.593
21	682393.392	798316.264	422.706
22	682393.909	798310.931	422.723
23	682394.162	798305.441	422.696
24	682403.943	798306.542	422.644
25	682403.491	798311.629	422.592
26	682402.95	798317.929	422.583
27	682402.349	798322.528	422.571
28	682401.997	798327.149	422.67
29	682411.064	798327.764	422.463
30	682412.82	798322.325	422.578
31	682413.423	798317.693	422.552
32	682414.115	798312.519	422.509
33	682414.653	798307.44	422.583
34	682425.214	798308.94	422.463
35	682424.567	798314.109	422.458
36	682423.695	798319.315	422.469
37	682422.767	798323.954	422.521
38	682421.573	798328.799	422.454
39	682432.162	798349.487	422.3

POINT	E	N	Z
40	682432.769	798326.87	422.402
41	682433.098	798321.033	422.392
42	682433.558	798315.949	422.429
43	682434.501	798311.124	422.394
44	682444.221	798312.263	422.325
45	682443.977	798317.167	422.307
46	682443.652	798321.997	422.306
47	682443.175	798327.502	422.273
48	682443.146	798327.503	422.278
49	682442.805	798332.434	422.231
50	682453.076	798333.258	422.278
51	682453.927	798328.308	422.252
52	682454.417	798323.724	422.309
53	682454.988	798318.819	422.312
54	682455.295	798313.97	422.326
55	682455.263	798309.44	422.353
56	682465.215	798311.155	422.275
57	682464.489	798316.342	422.294
58	682464.232	798321.645	422.302
59	682463.466	798327.472	422.227
60	682463.239	798333.294	422.178
61	682473.834	798334.648	422.03
62	682474.37	798329.93	422.035
63	682474.962	798324.787	422.032
64	682475.385	798319.814	422.179
65	682475.461	798314.72	422.055
66	682485.113	798316.662	422.199
67	682485.149	798321.471	422.055
68	682484.67	798326.328	422.039
69	682484.344	798330.946	422.044
70	682484.126	798335.725	422.154
71	682486.242	798337.015	422.371
72	682476.026	798336.604	422.191
73	682467.539	798335.587	422.167
74	682458.09	798334.294	422.395
75	682447.882	798333.081	422.318
76	682438.064	798332.057	422.353
77	682428.378	798330.583	422.364
78	682418.618	798329.187	422.529

مشروع لفظة السدة

POINT	E	N	Z
79	682409.567	798327.803	422.501
80	682400.283	798327.152	422.682
81	682391.67	798326.909	422.85
82	682383.492	798326.691	422.868
83	682373.856	798326.484	423.346
84	682486.906	798312.505	421.993
85	682479.057	798311.206	422.164
86	682468.903	798309.71	422.35
87	682459.152	798308.451	422.372
88	682449.394	798307.414	422.367
89	682439.306	798306.603	422.49
90	682428.864	798305.632	422.51
91	682418.689	798304.364	422.58
92	682409.053	798303.081	422.59
93	682398.998	798302.404	422.677
94	682388.791	798302.151	422.813
95	682378.827	798301.99	422.886
96	682374.558	798301.591	423.13
97	682375.512	798296.716	423.238
98	682386.242	798297.149	422.911
99	682396.575	798298.066	422.797
100	682404.515	798299.541	422.694
101	682415.432	798301.199	422.609
102	682425.72	798302.672	422.536
103	682436.3	798303.97	422.456
104	682445.875	798305.203	422.386
105	682455.867	798306.604	422.294
106	682465.842	798307.641	422.303
107	682475.639	798309.409	422.205
108	682485.591	798311.118	422.031
109	682487.456	798300.567	421.595
110	682477.767	798305.494	422.211
111	682468.263	798304.612	422.302
112	682458.437	798303.888	422.343
113	682448.728	798302.685	422.317
114	682438.637	798301.571	422.487
115	682428.572	798300.461	422.584
116	682418.362	798298.972	422.568
117	682408.509	798297.469	422.581

POINT	E	N	Z
118	682397.766	798296.63	422.695
119	682387.479	798294.98	422.845
120	682377.242	798294.474	422.848
121	682378.193	798283.382	422.945
122	682387.39	798284.982	422.955
123	682396.831	798286.965	422.795
124	682406.165	798288.45	422.606
125	682415.446	798289.945	422.595
126	682424.349	798291.469	422.542
127	682433.742	798293.195	422.259
128	682443.115	798294.614	422.252
129	682452.431	798295.682	422.508
130	682461.836	798296.672	422.203
131	682472.279	798297.398	422.343
132	682481.545	798298.734	422.337
133	682489.072	798300.831	422.205

مشروع شمال السرو - قطاع الحافلة

UNIVERSAL INSPECTION REQUEST

الشركة الهندسية

SYSTRA SHAKER

RECEIPT of NOTIFICATION - Minimum Notice Period not less than 24 Hours

The Work described below will be complete and ready for inspection at planned time shown

Contractor Company		Designer Company	Spectrum
Issued by Contractor	Name: Mohamed Sayed	Date:	Time:
Contractor's Reference: 3			
Received by: Abdellatif Attia		UIR	C1: S, C2: EC RAIL C3:	DD	MM	YY	HH	MM

Area	CODE-1 D1 to S3 Design Reference	CODE-1 Km XXX For Kilometric point only	CODE-2 Work Activity	CODE-3 Sub Element of Activity

EXPLANATION OF WORK TO BE INSPECTED

Area	Element	Item
Track (CC TO 01400)	PROV ST (0+225) TO (0+345)	Layer Level (تسكية طبقة)

Inspection Description: (Left Side) حفر

INSPECTION DETAILS The Following will be ready at the Planned Inspection Time

Planned Inspection Date	Planned Inspection Time

COMPLIANCE EVIDENCE Must be included as appropriate

Checklist Ref: ☐ | Test Results Attached ☐ | Calibration Attached ☐ | Other as indicated ☐

Drawing Reference	ITP Reference	MS Reference
Other Attachments	Surveying sheets (Master sheets + cross sections + width sheet)	
Profile Rev	NA	NA

Comments by: 3D survey Consultant (XYZ)	Comments by: General Consultant (SYSTRA)
Surveying sheets (levels-Coords-width) & inspection found: work ok	

INSPECTION RESULT

	Name	Sign	Date	Time	Approval Status A-AWC R	Please Tick if Not Attend
Organisation Contractor	Mohamed Sayed					
Contractor QA/QC					A	
SHAKER						
Employer's Representative*	Abdellatif Attia				A	

* Applicable to Level Only

Instructions for Use:

☐ The Contractor should continue work using their CHECKLIST of inspection items progressively

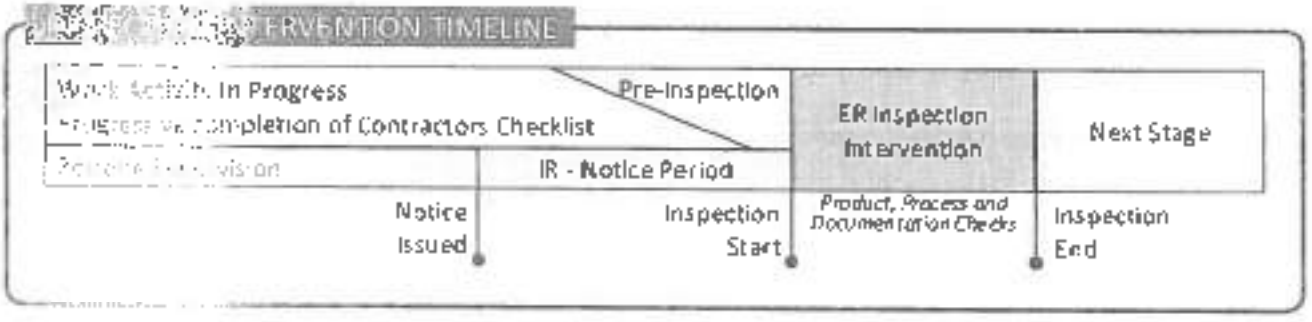
☐ The Contractor should do their own INTERNAL pre-inspection and correct any minor defects before final inspection and if necessary, advise Employer's Representative (ER) of possible delay to arrange correction. Contractor should update their CHECKLIST and their own INTERNAL Comments sheet to show the inspection is satisfactorily completed

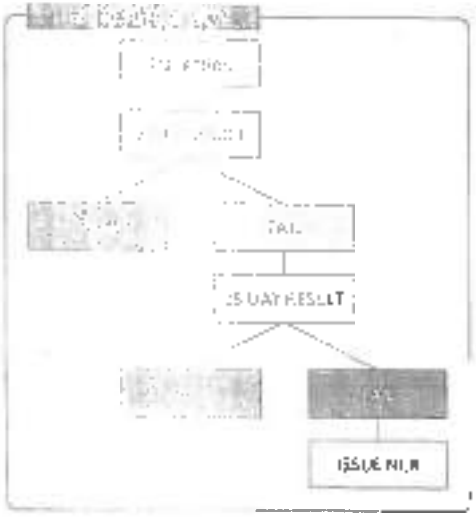
☐ The Contractor's Engineer and their QA/QC team should sign the UIR Form before ER Inspection. If the work is not ready they should delay the inspection and not sign the UIR. Comments at this stage are not expected although [illegible] cleaning prior to concrete pour will be allowed

☐ The ER shall attend as indicated and check the Contractors supporting Drawings, Test results, Per-inspection signed checks and check dimensions, alignment, workmanship, etc. If satisfied ER shall sign the UIR Code A = Approved, or shall add relevant comments and add AWC = Approved with Comments and the next stage may progress when the comments have been resolved, or shall add R = Rejected as the work is not satisfactory and must be corrected and reinspected

AWC or R will require a new UIR Form to be issued and the inspection process will re-start at a new date/time

☐ When Approved without comments, the next stage of work may progress





Inspection COMMENTS must be factual

Delayed test results may apply to every discipline at an inspection. When available, may require inspection records to be reviewed for previous work.

It is known that tests results taken during inspection will be available at some date in the future (eg 7 and 28 Days!.

The purpose of the UIR is to verify the work stage is ready to progress now. If the Work is ready to progress at the Inspection, then it must be Approved and allowed to progress without comment. This is to avoid returning to old AWC records and revise to A.

Review of Test Results is just another stage of the work activity, and result reviews have their own lifecycle. The test results shall be assessed when available, and if they fail to meet the necessary compliance requirements, an NCR shall be issued to track the correction process.

وزارة النقل

مشروع إنشاء القطار السريع
القطاع (طريق 6) من المحطة 0+000 إلى المحطة 0+400

Inspection Request

طلب رقم	صادر
3	

تاريخ	/ /2022

- مرفق الرفع المساحي (عدد ورقة)

رفع شبكة قاع حفر من محطة 0+325 إلى محطة 0+325 (LEFT)

مهندس المكتب الفني	مدير المشروع

ملاحظات الاستلام:

حفظ (A)	يحتاج مع بعض الملاحظات (B)	يعاد التقديم مع حل الملاحظات وعدم التقيد (C)	مرفوض (D)
☐	☐	☐	☐

الشركة المقاولة الهندسية للطرق والجسور (المقاول)	استشاري الإشراف (المكتب XYZ)	استشاري الإشراف الرئيسي (مكتب استشاري)
الاسم: محمد سيد الله	الاسم: أحمد الصيني	الاسم:
التوقيع:	التوقيع:	التوقيع:
التاريخ:	التاريخ:	التاريخ:

SPECTRUM CONSULTING

SPECTRUM

الشركة الهندسية

وزارة النقل
القطاع العام للطرق والكباري
والنقل البري

محضر استلام الميزانية الشبكية من الشركات المنفذة

التاريخ: / /2022

اسم المشروع: مشروع القطار السريع (العين السخنة – العلمين)

قامت شركة اكس واي زد (X,Y,Z) للأعمال المساحية (استشاري الاعمال المساحية لهيئة الطرق و الكباري) باستلام الميزانية الشبكية من شركة الهندسية للطرق والكباري والصرف الصحي

طريق رقم/ 06

من النحطه رقم 0+225 الي النحطه رقم 0+325 (left side)

بنود مهمة يجب ان يتم استيفائها قبل الاستلام:

- يتم استلام البيانات بعد الانتهاء من الرصد مباشرة من الجهاز المستخدم باي صيغة (RAW DATA)
- يتم اعتماد طريقة الميزانية المنتظمة و المتقدمة فقط في مشروع القطار الكهربائي السريع.
- يتم اعتماد الارصاد و الميزانيات المرفوعة بأجهزة مفحوصة و لها شهادات معايرة سارية حديثة فقط لا تقل مدة اخر معايرة للجهاز عن 3 أشهر.
- يتم مراجعة شهادات المعايرة مع التوكيل بشكل مباشر و في حالة ظهور شهادات مزورة يتم استبعاد الجهاز و الشخص المسؤول فورا.
- يجب ان يكون القائم بأعمال الميزانية الشبكية من المتخصصين في مجال المساحة و له خبرة عملية.
- تتم مطابقة و استلام الاعمال في الموقع و في حالة عدم مطابقة المنسوب في اكثر من 4 اماكن موزعين في المنطقة , لا يعتمد بالميزانية الشبكية و تتم اعادة رصدها.

ملاحظات :-

الاسم: محمد سيد عبد الله

التوقيع:

الشركة المنفذة الهيئة العامة للطرق والكباري

الاسم: أ/ محمد الصاوي

التوقيع:

استشاري المساحة مكتب XYZ

POINT	EASTING	NORTHING	ELEVATION
1	682607.518	798351.618	421.149
2	682607.086	798347.56	421.198
3	682608.614	798343.251	421.278
4	682609.537	798337.791	421.45
5	682607.614	798346.971	421.189
6	682606.878	798351.639	421.125
7	682606.36	798355.653	421.132
8	682614.5	798356.971	421.065
9	682614.778	798353.092	421.036
10	682615.412	798349.106	421.099
11	682615.956	798345.078	421.108
12	682616.57	798341.183	421.174
13	682616.827	798339.124	421.284
14	682624.555	798340.158	421.214
15	682624.247	798344.224	421.044
16	682623.841	798348.703	420.915
17	682623.398	798354.409	420.883
18	682623.189	798358.54	420.871
19	682637.145	798358.968	420.79
20	682632.708	798354.416	420.832
21	682633.463	798350.321	420.893
22	682634.774	798346.059	421.001
23	682635.096	798341.676	421.078
24	682641.685	798343.772	420.912
25	682644.012	798349.967	420.887
26	682643.354	798354.788	420.744
27	682642.911	798358.217	420.724
28	682642.67	798360.579	420.677
29	682651.586	798361.994	420.61
30	682652.649	798356.877	420.760
31	682652.404	798352.463	420.824
32	682652.89	798348.947	420.857
33	682653.273	798345.104	420.875

POINT	EASTING	NORTHING	ELEVATION
34	682662.583	798346.25	420.851
35	682661.586	798350.886	420.826
36	682660.307	798356.774	420.756
37	682659.45	798362.354	420.696
38	682669.36	798353.918	420.643
39	682669.941	798359.108	420.675
40	682670.404	798354.152	420.589
41	682671.22	798347.462	420.823
42	682680.87	798348.029	420.64
43	682679.988	798354.295	420.551
44	682679.149	798361.193	420.556
45	682678.745	798365.51	420.529
46	682689.107	798366.874	420.43
47	682690.107	798361.925	420.427
48	682690.948	798355.842	420.43
49	682691.572	798350.369	420.503
50	682700.008	798351.52	420.478
51	682699.308	798354.57	420.366
52	682698.655	798357.641	420.363
53	682697.997	798360.784	420.394
54	682697.462	798365.855	420.38
55	682696.907	798369.215	420.483
56	682704.05	798369.248	420.406
57	682704.455	798364.375	420.407
58	682704.839	798360.214	420.345
59	682705.288	798356.245	420.277
60	682705.562	798352.476	420.337
61	682715.766	798353.782	420.197
62	682715.792	798358.753	420.251
63	682715.124	798356.901	420.194
64	682714.403	798361.779	420.236
65	682713.739	798367.719	420.408
66	682713.081	798371.23	420.518

POINT	EASTING	NORTHING	ELEVATION
67	682724.77	798372.688	420.31
68	682725.261	798368.69	420.323
69	682725.799	798363.787	420.256
70	682726.391	798358.923	420.247
71	682727.164	798355.791	420.448

SYSTRA

ICATION - Minimum Notice Period not less than 24 Hours

ow will be complete and ready for inspection at planned time shown.

Contractor Company		Designer Company	Spectrum
Issued by Contractor	Name: Mohamed Sayed Sign:	Date	Time
Contractor's Rep Received			
Received by SS	Abdellatif Attia	UIR	C1: S, C2: SH, C3: [illegible] DD MM YY HH MM

CODE-1 D1 to S9 Depot Reference	CODE-1 Km XXX For Kilometer point only	CODE-2 Work Activity	CODE-3 Sub Element of Activity

EXPLANATION OF WORK TO BE INSPECTED

	Element	Item
	UP TO 04+400	PAVEMENT (PC)	Layer Level (طبقة تحمل)

Road about-out عمل طريق مؤقت

INSPECTION DETAILS The Following will be ready at the **Planned** Inspection Time

Planned Inspection Date	Planned Inspection Time

COMPLIANCE EVIDENCE Must be included as appropriate

	Test Results Attached☐	Calibration Attached☐	Other as indicated☐
Drawing Reference / Attachments	ITP Reference: Surveying sheets (Master sheets +Cross sections + width sheet)		MS Reference
Profile Rev	NA		NA

Comments by Survey Consultant (XYZ)	Comments by: General Consultant (SYSTRA)
Surveying sheets (Coords-width) Are [illegible] found :	

INSPECTION RESULT

	Name	Sign	Date	Time	Approval Status A-AWC-R	Please Tick if Not Attend
Organisation Contractor QA/QC	Mohamed Sayed				A	
Engineer Rep	Abdellatif Attia				A	

Instructions for Use:

☐ The Contractor should continue work using their CHECKLIST of inspection items progressively

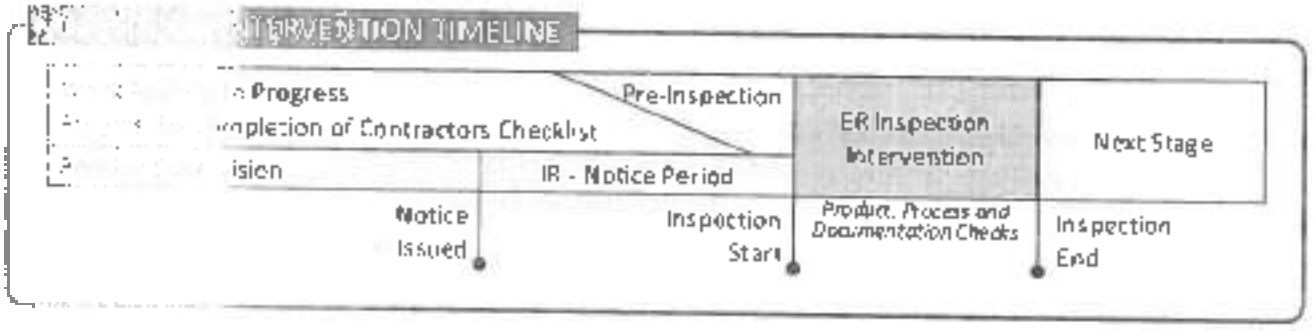
☐ The Contractor should do their own INTERNAL pre-inspection and correct any minor defects before final inspection and if necessary, advise Employer's Representative (ER) of possible delay to arrange correction. Contractor shall update their CHECKLIST and their own INTERNAL Comments sheet to show the inspection is satisfactorily completed.

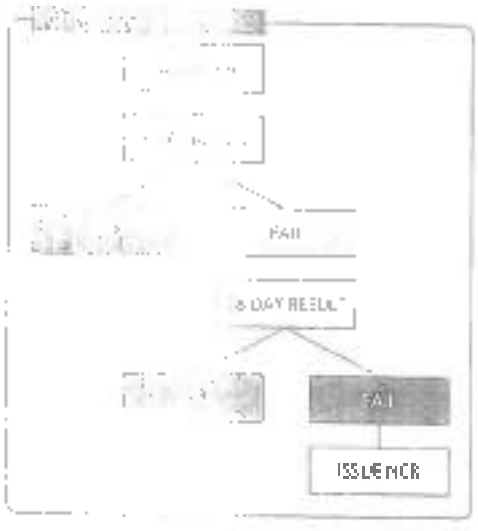
☐ The Contractor's Engineer and their QA/QC team should sign the UIR Form before ER inspection. If the work is not ready this should delay the inspection and not sign the UIR. Comments at this stage are not expected although preparation cleaning prior to concrete pour will be allowed

☐ The ER shall attend as indicated and check the Contractors supporting Drawings, Test results, Pre-inspection signed checklist and check dimensions, alignment, workmanship, etc. If satisfied ER shall sign the UIR Code A = Approved or may add relevant comments and add AWC = Approved with Comments and the next stage may progress when the comments have been resolved, or shall add R = Rejected as the work is not satisfactory and must be corrected and reinspected

AWC will require a new UIR Form to be issued and the inspection process will re-start at a new date/time

☐ When signed off without comments, the next stage of work may progress





Inspection COMMENTS must be factual

Delayed test results may apply to every discipline at an inspection When available, may require inspection records to be reviewed for previous work.

It is known that tests results taken during inspection will be available at some date in the future (eg 7 and 28 Days)

The purpose of the UIR is to verify the work stage is ready to progress now. If the Work is ready to progress at the Inspection, then it must be Approved and allowed to progress without comment. This is to avoid returning to old AWC records and revise to A.

Review of Test Results is just another stage of the work activity, and result reviews have their own lifecycle. The test results shall be assessed when available, and if they fail to meet the necessary compliance requirements, an NCR shall be issued to track the correction process.

وزارة النقل

مشروع إنشاء القطار السريع
القطاع (طريق 06) من المحطة 0+000 إلى المحطة 0+400

Inspection Request

طلب رقم	العدد
4	

التاريخ	
2022/ /	

- مرفق للرفع المساحي (عدد ورقة)

رفع شبكة قاع حفر (رصيف طريق 06 مع (Round about 04

مهندس المكتب الفني	مندوب المقاول

ملاحظات الاعضاء :

يقبل (A)	يقبل مع تلافي الملاحظات (B)	عدم القبول مع تلافي الملاحظات ، عدم القبول (C)	مرفوض (D)
☐	☐	☐	☐

الشركة المنفذة (مؤسسة النقل والتجارة راغب عبد الغني)	مكتب خدمة (مكتب 7777)	مكتب الدراسات (SPECTRUM CONSULTING)
الاسم:	الاسم:	الاسم:
التوقيع:	التوقيع:	التوقيع:
التاريخ:	التاريخ: مشروع القطار السريع - قطاع العاصمة	التاريخ:

SPECTRUM CONSULTING

SPECTRUM

الشركة الجهوية

محضر استلام الميزانية الشبكية من الشركات المنفذة

التاريخ: / /2022

اسم المشروع: مشروع القطار السريع (العين السخنة – العلمين)

قامت شركة اكس واي زد (X,Y,Z) للأعمال المساحية (استشاري الاعمال المساحية لهيئة الطرق و الكباري) باستلام الميزانية الشبكية

من شركة/ الهندسية للطرق و الكباري والصرف الصحي

طريق رقم/ 06

من المحطه رقم Round 04 الي المحطه رقم رأس طريق 06 مع

بنود مهمة يجب ان يتم استيفائها قبل الاستلام:

- يتم استلام البيانات بعد الانتهاء من الرصد مباشرة من الجهاز المستخدم باي صيغة.(RAW DATA)
- يتم اعتماد طريقة الميزانية المنتظمة و المتقدمة فقط في مشروع القطار الكهربائي السريع.
- يتم اعتماد الارصاد و الميزانيات المرفوعة بأجهزة مفحوصة و لها شهادات معايرة سارية حديثة فقط لا تقل مدة اخر معايرة للجهاز عن 3 أشهر.
- يتم مراجعة شهادات المعايرة مع التوكيل بشكل مباشر و في حالة ظهور شهادات مزورة يتم استبعاد الجهاز و الشخص المسؤول فورا.
- يجب ان يكون القائم بأعمال الميزانية الشبكية من المتخصصين في مجال المساحة و له خبرة مناسبة.
- تتم مطابقة و استلام الاعمال في الموقع و في حالة عدم مطابقة المنسوب في أكثر من 4 اماكن موزعين في المنطقة , لا يعتمد بالميزانية الشبكيه و تتم اعادة رصدها.

ملاحظات :-

الاسم: محمد سيد عبد الله

التوقيع:

الشركة المنفذة الهندسية للطرق والكباري

الاسم:

التوقيع:

استشاري المساحة مكتب XYZ

POINT	EASTING	NORTHING	ELEVATION
1	682367.624	798336.224	423.938
2	682373.757	798339.768	422.811
3	682378.307	798340.985	422.658
4	682382.337	798343.928	422.513
5	682387.589	798344.743	422.897
6	682393.174	798346.718	422.548
7	682391.236	798356.595	422.54
8	682385.96	798350.024	422.977
9	682380.937	798354.742	422.968
10	682375.6	798353.419	423.102
11	682370.773	798352.137	423.546
12	682369.74	798351.849	423.879
13	682365.036	798350.926	423.885
14	682363.701	798360.74	423.845
15	682368.123	798361.277	423.851
16	682373.902	798361.601	423.41
17	682378.234	798363.902	423.502
18	682383.164	798362.359	423.167
19	682388.447	798362.375	423.905
20	682384.774	798371.926	423.005
21	682379.185	798371.47	423.098
22	682374.355	798370.107	423.543
23	682368.668	798369.399	423.615
24	682366.154	798368.928	423.714
25	682366.874	798376.602	423.656
26	682372.052	798378.585	423.085
27	682376.511	798377.563	422.93
28	682381.565	798377.229	424.262
29	682381.437	798384.805	422.62
30	682377.319	798386.216	422.656

POINT	EASTING	NORTHING	ELEVATION
31	682373.705	798388.357	423.095
32	682371.244	798389.269	423.552
33	682367.683	798389.808	423.677
34	682372.515	798398.852	423.164
35	682377.002	798396.88	423.48
36	682381.351	798394.996	422.657
37	682385.973	798393.541	422.795
38	682390.099	798390.993	422.529
39	682394.63	798389.784	422.508
40	682395.455	798399.54	422.736
41	682391.213	798402.029	422.372
42	682387.213	798405.091	422.831
43	682384.14	798407.104	423.598
44	682379.163	798412.191	423.338
45	682374.742	798407.56	423.474
46	682372.151	798405.098	423.537
47	682367.346	798402.302	423.56
48	682359.394	798407.682	423.271
49	682362.402	798409.097	423.232
50	682364.742	798413.672	423.131
51	682366.277	798417.489	422.869
52	682366.407	798421.287	422.707
53	682362.95	798422.764	423.496
54	682361.424	798417.991	422.47
55	682361.266	798413.409	423.069
56	682361.287	798413.407	423.014
57	682360.152	798408.916	423.242
58	682358.17	798404.741	423.208
59	682349.341	798403.489	423.48
60	682349.251	798407.66	423.236

POINT	EASTING	NORTHING	ELEVATION
61	682340.065	798412.816	423.087
62	682349.035	798418.875	423.420
63	682348.946	798423.076	422.978
64	682344.734	798423.037	423.512
65	682340.923	798426.927	423.011
66	682342.194	798432.949	423.18
67	682342.979	798408.091	423.204
68	682344.115	798405.15	423.513
69	682339.476	798405.503	423.703
70	682333.449	798405.567	423.696
71	682334.126	798409.486	423.[illegible]5
72	682334.998	798416.897	423.1[illegible]6
73	682335.588	798420.328	422.915
74	682434.357	798425.73	422.913
75	682428.759	798426.547	422.951
76	682427.127	798421.506	423.796
77	682326.159	798418.82	424.1.5
78	682325.494	798414.37	423.[illegible]11
79	682325.521	798414.43	423.412
80	682324.585	798408.796	424.428
81	682324.538	798405.513	423.79
82	682330.314	798405.587	423.785
83	682341.133	798405.261	423.544
84	682352.559	798405.991	423.362
85	682362.844	798406.786	423.247
86	682371.923	798412.596	423.205
87	682380.182	798403.687	423.638
88	682372.951	798394.768	423.68
89	682368.969	798386.485	423.69
90	682366.44	798376.214	423.692

مشروع المخطر السريع - قف

POINT	EASTING	NORTHING	ELEVATION
91	682366.228	798365.187	424.787
92	682368.723	798343.057	424.855
93	682369.037	798337.173	423.862
94	682372.866	798332.24	423.485
95	682373.333	798327.434	423.658
96	682374.845	798324.89	422.997
97	682380.175	798325.935	422.978
98	682385.702	798327.323	422.905
99	682389.47	798327.676	422.955
100	682394.046	798328.327	422.803
101	682392.736	798335.703	422.191
102	682388.633	798335.413	423.817
103	682383.175	798335.159	423.851
104	682378.28	798334.122	423.827
105	682373.212	798334.308	423.766
106	682378.002	798281.959	423.48
107	682378.762	798276.946	423.721
108	682385.207	798278.679	424.295
109	682385.08	798283.005	424.061
110	682387.474	798274.07	424.512
111	682379.33	798270.407	424.552
112	682375.401	798272.749	424.54
113	682372.162	798275.903	424.579
114	682372.174	798280.552	424.536
115	682375.535	798281.228	425.128
116	682369.731	798274.085	424.510
117	682370.792	798266.751	425.004
118	682370.655	798261.151	424.[illegible]
119	682371.627	798256.817	42[illegible]
120	682365.635	798251.311	425.[illegible]

POINT	EASTING	NORTHING	ELEVATION
121	682367.8	798246.802	425.321
122	682369.114	798242.015	425.409
123	682363.231	798238.875	425.327
124	682361.057	798246.927	425.173
125	682362.097	798260.673	4 65
126	682361.713	798275.565	424.9 2
127	682361.754	798290.078	424.529
128	682360.071	798304.74	424.1
129	682361.395	798294 9	424.262
130	682357.125	798282.091	424.2 4
131	682353.35	798278.32	424.1 5
132	682354.495	798266.029	4 5 81
133	682354.165	798260.7	2 53
134	682353.944	798250.684	424 04
135	682353.628	798243.742	425.307
136	682355.32	798233.523	424.786
137	682346.968	798237.585	425 13
138	682347.654	798232.156	425.486
139	682337.935	798238.514	425.31
140	682339.212	798247.096	424.531
141	682338.214	798254.525	424.141
142	682336.146	798262.409	423.984
143	682333.536	798266.563	424.259
144	682331.026	798272.455	424.1
145	682322.571	798265.112	424.597
146	682322.072	798257.538	424.3
147	682322.203	798249.598	425.137
148	682322.674	798245.339	425.097
149	682322.187	798238.93	424.83
150	682318.013	798236.916	424.0 6

POINT	EASTING	NORTHING	ELEVATION
151	682312.594	798249.315	424.864
152	682311.262	798255.478	424.653

UNIVERSAL INSPECTION REQUEST

RECEIPT of NOTIFICATION - Minimum Notice Period not less than 24 Hours

The Work described below will be complete and ready for inspection at planned time shown

Contractor Company			Designer Company	Spectrum
Issued by Contractor	Name	Sign	Date	Time
	Mohamed Sajed			
Contractor UIR Reference	5			
Received by FR	Abdellah Attia	AATTIA	UIR	C1: 5 C2: C3: DD MM YY HH MM

CODE-1 S1 to S21 Station Reference	CODE-1 D1 to D3 Depot Reference	CODE-1 Kp XXX for Kilometer point only	CODE-2 Work Activity	CODE-3 Sub Element of Activity

EXPLANATION OF WORK TO BE INSPECTED

Area	Element	Item
ROAD 06 (0+000 TO 0+400)	FROM ST.1 (0+100) TO (0+235)	Layer Level (تسوية الطبقة)

Inspection Description : (left side) (يسار)

INSPECTION DETAILS The Following will be ready at the Planned Inspection Time

Planned Inspection Date	Planned Inspection Time

COMPLIANCE EVIDENCE Must be included as appropriate

Checklist Attached ☐	Test Results Attached ☐	Calibration Attached ☐	Other as indicated ☐
Drawing Reference	ITP Reference	MS Reference	
Other Attachments	Surveying sheets (Master sheets +cross sections + width sheet)		
Plan profile Rev	NA	NA	

Comments by :GARB survey Consultant (XYZ)	Comments by: General Consultant (SYSTRA)
Surveying works (levels-Coords-width) Are inspection and found : work may	

INSPECTION RESULT

Organisation	Name	Sign	Date	Time	Approval Status A-AWC-R	Please Tick If Not Attend
Contractor Engineer	Mohamed Sajed					
Contractor QA/QC	XYZ				A	
	Spectrum					
GARB*						
Employers Representative	Abdellah Attia	AATTIA			A	

* Alignment Bridges Culvert Only

Instructions for Use:

☐ The Contractor should continue work using their CHECKLIST of inspection items progressively

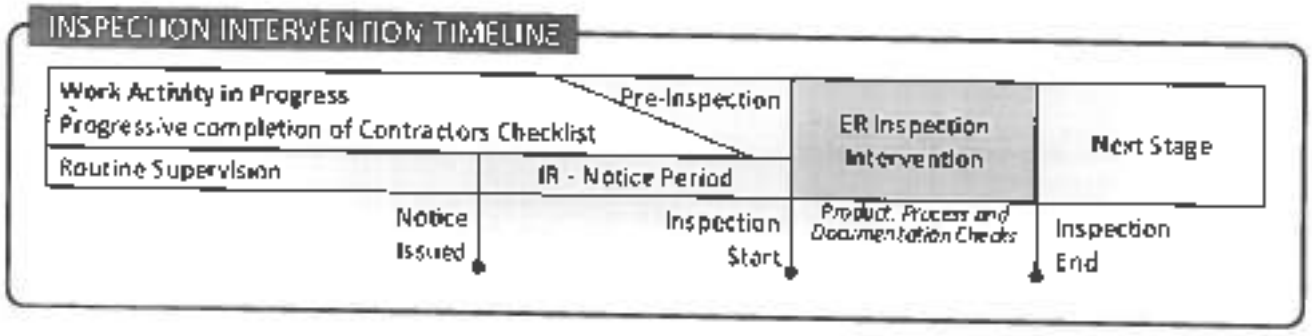
☐ The Contractor should do their own INTERNAL pre-inspection and correct any minor defects before final inspection and if necessary, advise Employer's Representative (ER) of possible delay to arrange correction. Contractor should update their CHECKLIST and their own INTERNAL Comments sheet to show the inspection is satisfactory completed

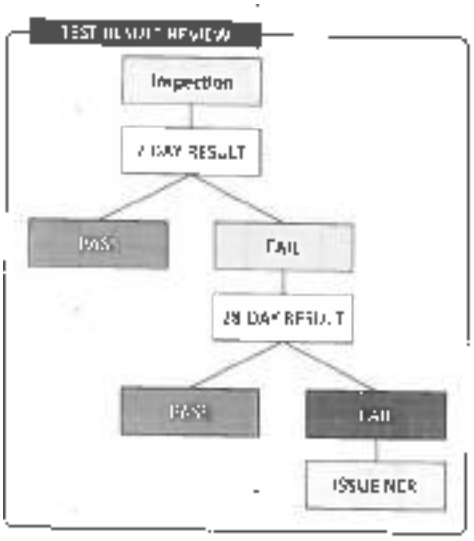
☐ The Contractor Engineer and their QA/QC team should sign the UIR Form before ER inspection. If the work is not ready, they should delay the inspection and not sign the UIR. Comments at this stage are not expected although eg: minor cleaning prior to concrete pour will be allowed

☐ The ER shall attend as indicated and check the Contractors supporting Drawings, Test results, Per-inspection signed sheets and check dimensions, alignment, workmanship, etc. If satisfied ER shall sign the UIR Code A = Approved, or shall add relevant comments and add AWC = Approved with Comments and the next stage may progress when the comments have been resolved, or shall add R = Rejected as the work is not satisfactory and must be corrected and reinspected

AWC or R will require a new UIR Form to be issued and the inspection process will re-start at a new date/time

☐ When Approved without comments, the next stage of work may progress





Inspection COMMENTS must be factual

Delayed test results may apply to every discipline at an inspection. When available, may require inspection records to be reviewed for previous work.

It is known that tests results taken during inspection will be available at some date in the future (eg 7 and 28 Days).

The purpose of the UIR is to verify the work stage is ready to progress now. If the Work is ready to progress at the Inspection, then it must be Approved and allowed to progress without comment. This is to avoid returning to old AWC records and revise to A.

Review of Test Results is just another stage of the work activity, and result reviews have their own lifecycle. The test results shall be assessed when available, and if they fail to meet the necessary compliance requirements, an **NCR** shall be issued to track the correction process.

وزارة النقل

مشروع إنشاء القطار السريع
القطاع (طريق 06) من المحطة 0+000 إلى المحطة 0+400

Inspection Request

طلب رقم	الصدار
5	

التاريخ
2023/

- مرفق الرفع المساحي (عدد ورقة)

رفع شبكية حائط حفر عند محطة 0+100 الى محطة 0+225 (LEFT)

مهندس المكتب الفني	مدير المشروع

ملاحظات الاعضاء:

بعد (A)	مشروط بالملاحظات (B)	بعد تنفيذ جميع ملاحظات وعدم الحاجة لزيارة (C)	مرفوض (D)
☐	☐	☐	☐

الشركة المنفذة للأعمال الهندسية لطريق وأنفاق والجسور للمشروع	الجهة المستلمة (المكتب الاستشاري)	المقاول الرئيسي
الاسم: محمد عبد الله	الاسم: أنعم الصوني	الاسم:
التوقيع:	التوقيع:	التوقيع:
التاريخ:	التاريخ:	التاريخ:

مشروع القطار السريع - مطار القاهرة

SPECTRUM CONSULTING

SPECTRUM

الشركة الهندسية

محضر استلام الميزانية الشبكية من الشركات المنفذة

التاريخ: / /2022

اسم المشروع: مشروع القطار السريع (العين السخنة – العلمين)

قامت شركة اكس واي زد (X,Y,Z) للأعمال المساحية (استشاري الاعمال المساحية لهيئة الطرق و الكباري) باستلام الميزانية الشبكية

من شركة/ الهندسية للطرق والكباري والصرف الصحي

طريق رقم/ 06

من المحطه رقم 0+100 الي المحطه رقم 0+215

بنود مهمة يجب ان يتم استيفائها قبل الاستلام:

- يتم استلام البيانات بعد الانتهاء من الرصد مباشرة من الجهاز المستخدم باي صيغة.(RAW DATA)
- يتم اعتماد طريقة الميزانية المنتظمة و المتقدمة فقط في مشروع القطار الكهربائي السريع.
- يتم اعتماد الارصاد و الميزانيات المردوعة بأجهزة مفحوصة و لها شهادات معايرة سارية حديثة فقط لا تقل مدة اخر معايرة للجهاز عن 3 أشهر.
- يتم مراجعة شهادات المعايرة مع التوكيل بشكل مباشر و في حالة ظهور شهادات مزورة يتم استبعاد الجهاز و الشخص المسؤول فورا.
- يجب ان يكون القائم بأعمال الميزانية الشبكية من المتخصصين في مجال المساحة و له خبرة مناسبة.
- تتم مطابقة و استلام الاعمال في الموقع و في حالة عدم مطابقة المنسوب في اكثر من 4 اماكن موزعين في المنطقة , لا يعتمد بالميزانية الشبكية و تتم اعادة رصدها

ملاحظات :-

الاسم: محمد سعيد عبد الله

التوقيع:

الشركة المنفذة الهندسية للطرق والكباري والصرف

الاسم: محمد [illegible]

التوقيع:

استشاري المساحة مكتب XYZ

POINT	EASTING	NORTHING	ELEVATION
1	682487.582	798320.604	422.392
2	682486.946	798325.335	422.426
3	682486.180	798330.807	422.401
4	682485.331	798335.644	422.382
5	682496.449	798338.072	422.075
6	682497.020	798333.065	422.126
7	682497.933	798327.285	422.151
8	682498.903	798322.256	422.205
9	682514.309	798324.074	421.883
10	682513.557	798329.236	421.891
11	682512.617	798334.899	421.861
12	682521.730	798340.496	421.692
13	682522.883	798342.346	421.734
14	682523.445	798337.116	421.677
15	682523.911	798331.420	421.671
16	682524.544	798325.614	421.627
17	682535.427	798326.824	421.684
18	682534.850	798332.706	421.647
19	682534.286	798337.504	421.633
20	682533.939	798343.300	421.568
21	682545.140	798344.609	421.558
22	682545.566	798330.478	421.532
23	682546.234	798334.002	421.711
24	682547.026	798329.751	421.784
25	682558.900	798330.262	421.571
26	682558.523	798335.647	421.573
27	682557.820	798341.207	421.580
28	682550.954	798346.640	421.587
29	682567.210	798348.396	421.941
30	682568.179	798343.452	421.965

مشروع العطار السريع - عجلان

POINT	EASTING	NORTHING	ELEVATION
31	682568.644	798358.187	421.964
32	682569.956	798331.813	422.087
33	682580.821	798333.192	422.257
34	682579.947	798338.479	422.020
35	682578.692	798343.895	421.885
36	682577.816	798350.063	421.778
37	682588.351	798351.814	421.434
38	682589.381	798346.694	421.497
39	682590.213	798341.292	421.647
40	682591.553	798334.818	421.810
41	682602.338	798336.840	421.518
42	682601.666	798342.220	421.439
43	682600.617	798347.083	421.381
44	682599.283	798353.745	421.041
45	682509.709	798340.352	421.708
46	682514.274	798341.786	421.546
47	682518.976	798342.545	421.718
48	682521.271	798342.793	421.777
49	682528.055	798343.528	421.682

UNIVERSAL INSPECTION REQUEST

RECEIPT of NOTIFICATION - Minimum Notice Period not less than 24 Hours

The Work described below will be complete and ready for inspection at planned time shown

Contractor Company	الشركة الهندسية للطرق والكباري والمرافق المحدودة		Designer Company	Spectrum	
Issued by Contractor	Name XYZ / Mohamed Sayed	Sign / توقيع	Date	Time	
Contractor UIR Reference	6				
Received by ER	Abdelhalim Attia AATT(A)		UIR	C1: SR, C2: Sn, C3: Rea, DD, MM, YY, HH, MM	

CODE 1 S1 to S23 Station Reference	CODE-1 D1 to D4 Depot Reference	CODE-1 R1 to XXX For Kilometer point only	CODE-2 Work Activity	CODE-3 Sub Element of Activity

EXPLANATION OF WORK TO BE INSPECTED

Area	Element	Item
ROAD-06 (C+000 TO C+400)	FROM ST (0+00) TO (0+400)	Layer Level طبقة أساس

Inspection Description

(Right Side) يمين

INSPECTION DETAILS The Following will be ready at the Planned Inspection Time

Planned Inspection Date	Planned Inspection Time

COMPLIANCE EVIDENCE Must be included as appropriate

Checklist Attached ☐	Test Results Attached ☐	Calibration Attached ☐	Other as indicated ☐
Drawing Reference	TP Reference		MS Reference
Other Attachments	Surveying sheets (Master sheets +cross sections + width sheet)		
Plan profile Rev	NA	NA	

Comments by GARB survey Consultant (XYZ)	Comments by: General Consultant (SYSTRA)
Surveying works (Levels-Coords-width) Are inspection and found : work may	

INSPECTION RESULT

	Name	Sign.	Date	Time	Approval Status A AWC-R	Please Tick if Not Attend
Organisation Contractor Engineer						
Contractor QA/QC XYZ	Mohamed Sayed				A	
Spectrum						
GARB* Employers Representative	Abdel-halim Attia) AATT(A)				A	

* Alignment: Bridges Culvert Only

Instructions for Use:

☐ The Contractor should continue work using their CHECKLIST of inspection items progressively

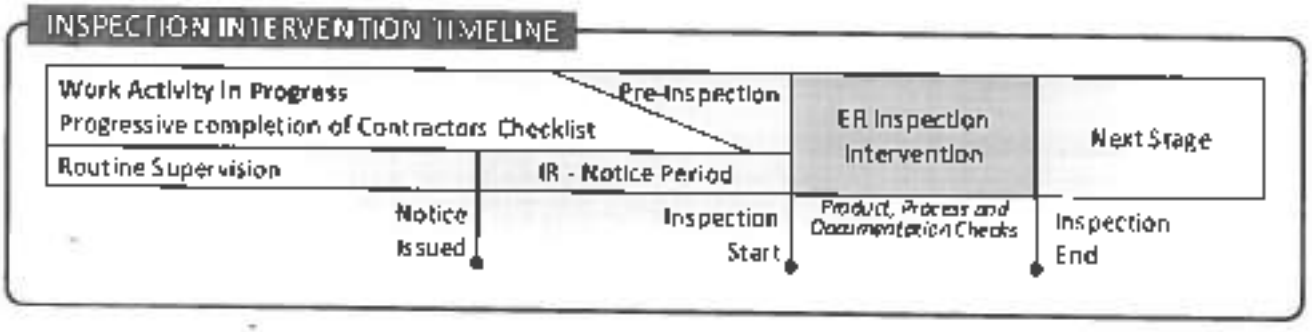
☐ The Contractor should do their own **INTERNAL** pre inspection and correct any minor defects before final inspection and if necessary, advise Employer's Representative (ER) of possible delay to arrange correction. Contractor should update their CHECKLIST and their own INTERNAL Comments sheet to show the inspection is satisfactory completed.

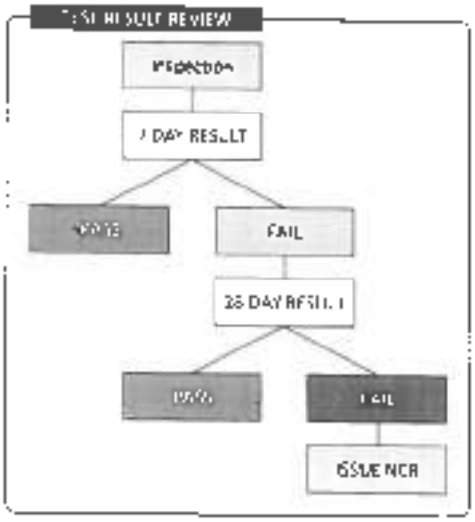
☐ The Contractor Engineer and their QA/QC team should sign the UIR Form before ER inspection. If the work is not ready, they should delay the inspection and not sign the UIR. Comments at this stage are not expected although eg: minor cleaning prior to concrete pour will be allowed

☐ The ER shall attend as indicated and check the Contractors supporting Drawings, Test results, Per-inspection signed sheets and check dimensions, alignment, workmanship, etc. If satisfied ER shall sign the UIR Code A = Approved, or shall add relevant comments and add AWC = Approved with Comments and the next stage may progress when the comments have been resolved, or shall add R = Rejected as the work is not satisfactory and must be corrected and reinspected

AWC or R will require a new UIR Form to be issued and the inspection process will re-start at a new date/time

☐ When Approved without comments, the next stage of work may progress





Inspection COMMENTS must be factual

Delayed test results may apply to every discipline at an inspection. When available, may require inspection records to be reviewed for previous work.

It is known that tests results taken during inspection will be available at some date in the future (eg 7 and 28 Days).

The purpose of the UIR is to verify the work stage is ready to progress now. If the Work is ready to progress at the Inspection, then it must be Approved and allowed to progress without comment. This is to avoid returning to old AWC records and revise to A.

Review of Test Results is just another stage of the work activity, and result reviews have their own lifecycle. The test results shall be assessed when available, and if they fail to meet the necessary compliance requirements, an **NCR shall be issued** to track the correction process.

وزارة النقل

مشروع إنشاء القطار السريع
القطاع (طريق 06) من المحطة 0+000 إلى المحطة 0+400

Inspection Request

طلب رقم	صدر
6	

التاريخ	
[illegible]	

- مرفق الرفع للمسلحي (عدد ورقة)

تسليم شبكة حاع حفر من محطة 0+100 الى محطة 0+400 (RIGHTSide)

مهندس المكتب الفني	مدير المشروع

ملاحظات الإعتماد:

بحث (A)	يعتمد مع ملاحظات (B)	يعاد التقديم - مع عدم الموافقة على الملاحظات (C)	مرفوض (D)
☐	☐	☐	☐

الشركة المنفذة الهندسية لطرق وتكديس وأعمال الصرف	المكتب الفني لشركة (مكتب ٢٧٧)	استشاري المراقبة (مكتب استشاري)
الاسم:	الاسم:	الاسم:
التوقيع:	التوقيع	التوقيع:
التاريخ:	التاريخ	التاريخ:

SPECTRUM CONSULTING

SPECTRUM

محضر استلام الميزانية الشبكية من الشركات المنفذة

التاريخ: / /2022

اسم المشروع: مشروع القطار السريع (العين السخنة – العلمين)

قامت شركة اكس واي زد (X,Y,Z) للأعمال المساحية (استشاري الاعمال المساحية لهيئة الطرق و الكباري) باستلام الميزانية الشبكية

من شركة/ الهندسية للطرق والكباري والصرف الصحي

طريق رقم/ 06

من المحطه رقم 04700 الي المحطه رقم 04760 (Right Side)

بنود مهمة يجب ان يتم استيفائها قبل الاستلام:

- يتم استلام البيانات بعد الانتهاء من الرصد مباشرة من الجهاز المستخدم باي صيغة (RAW DATA)
- يتم اعتماد طريقة الميزانية المنتظمة و المنقسمة فقط في مشروع القطار الكهربائي السريع.
- يتم اعتماد الارصاد و الميزانيات المرفوعة بأجهزة مفحوصة و لها شهادات معايرة سارية حديثة فقط لا تقل مدة اخر معايرة للجهاز عن 3 أشهر .
- يتم مراجعة شهادات المعايرة مع التوكيل بشكل مباشر و في حالة ظهور شهادات مزورة يتم استبعاد الجهاز و الشخص المسؤول عنه.
- يجب ان يكون القائم باعمال الميزانية الشبكية من المتخصصين في مجال المساحة و له خبرة مناسبة.
- يتم مطابقة و استلام الأعمال في الموقع و في حالة عدم مطابقة المنسوب في اكثر من 4 اماكن موزعين في المنطقة , لا يعتمد بالميزانية الشبكية و تتم اعادة رصدها.

ملاحظات :-

الاسم: محمد حسب الله

التوقيع: محمد حسب الله

الشركة المنفذة الهيئة للطرق والكباري

الاسم: أحمد الصيرفي

التوقيع: أحمد الصيرفي

استشاري المساحة مكتب XYZ

POINT	EASTING	NORTHING	ELEVATION
1	682495.62	798301.262	422
2	682494.713	798306	421.967
3	682493.866	798311.461	422.006
4	682492.855	798318.123	421.962
5	682504.23	798319.9	421.889
6	682505.219	798314.371	421.84
7	682505.961	798308.879	421 831
8	682506.812	798302.778	421.904
9	682517.919	798304.817	421 789
10	682516 743	798310.16	421.695
11	682515.855	798315.518	421 642
12	682514.63	798321.062	421 716
13	682525.935	798322.668	421.553
14	682526.842	798317.538	421.62
15	682527.819	798312.12	421 696
16	682528.539	798308.204	421 777
17	682539 461	798310.156	421 683
18	682538.528	798315 644	421.709
19	682537.51	798320.777	421 701
20	682537.058	798324.408	421.759
21	682547.759	798325.553	421.82
22	682548 752	798320.353	421 645
23	682549.579	798315.46	421.733
24	682550.005	798311 41	421.871
25	682558 949	798312.703	422.017
26	682557.974	798317.664	421.878
27	682556.989	798322.585	421 769
28	682556.276	798326.97	421 717
29	682567.346	798328 853	421.760
30	682568 666	798323.987	421 763
31	682569 617	798318.536	421 871
32	682570.169	798314.731	421.976
33	682582.383	798314 924	422.099
34	682581 592	798320.511	422 18
35	682580.802	798325 912	422 358
36	682579 937	798331 293	422 272
37	682589 932	798332 928	422 079
38	682590 884	798327 855	422 189
39	682591.88	798322 706	422.305
40	682593 318	798316.992	421 931
41	682603.247	798318 111	422.205
42	682602.423	798322 731	422.098
43	682601 381	798327.548	421 902
44	682600.183	798334.301	421.704
45	682610 551	798336.028	421.535
46	682611.728	798330.814	421.583
47	682613.073	798325.783	421.739
48	682614.28	798319.791	421.709

POINT	EASTING	NORTHING	ELEVATION
49	682626.018	798320.397	421.122
50	682625.579	798325.368	421.131
51	682624.793	798330.473	421.213
52	682623.787	798335.007	421.293
53	682623.503	798338.447	421.303
54	682634.409	798340.105	421.015
55	682635.395	798334.968	421.024
56	682636.668	798329.882	420.97
57	682637.59	798325.17	420.978
58	682638.779	798320.765	421.16
59	682650.121	798323.83	420.829
60	682649.588	798330.639	420.89
61	682648.964	798335.480	420.839
62	682648.395	798341.46	420.825
63	682658.517	798342.978	420.711
64	682659.559	798338.271	420.81
65	682660.633	798333.057	420.661
66	682661.495	798327.94	420.649
67	682662.311	798324.991	420.81
68	682674.533	798327.124	420.756
69	682674.128	798331.874	420.652
70	682673.779	798336.944	420.746
71	682673.323	798341.462	420.796
72	682673.066	798344.899	420.804
73	682682.54	798346.394	420.687
74	682683.678	798341.444	420.763
75	682685.056	798334.06	420.774
76	682686.12	798329.777	420.807
77	682696.873	798331.465	420.665
78	682696.708	798336.441	420.589
79	682696.253	798341.438	420.569
80	682695.293	798347.638	420.545
81	682705.584	798349.673	420.346
82	682706.629	798343.479	420.404
83	682707.518	798338.576	420.428
84	682708.703	798333	420.402
85	682718.475	798334.076	420.321
86	682718.111	798339.155	420.218
87	682717.468	798344.067	420.202
88	682716.613	798348.884	420.244
89	682716.211	798351.582	420.322
90	682726.545	798353.573	420.248
91	682727.453	798349.067	420.266
92	682728.257	798344.125	420.175
93	682729.134	798339.721	420.221
94	682729.709	798335.063	420.321
95	682741.164	798337.816	420.327
96	682740.327	798342.476	420.312

POINT	EASTING	NORTHING	ELEVATION
97	682730.673	798347.667	420.3
98	682739.182	798352.384	420.305
99	682739.485	798354.691	420.264
100	682750.326	798356.459	420.33
101	682751.629	798351.739	420.413
102	682752.587	798345.544	420.319
103	682753.369	798341.374	420.36
104	682763.599	798342.654	420.63
105	682763.498	798347.874	420.449
106	682763.787	798353.31	420.433
107	682762.872	798357.963	420.418
108	682776.608	798359.016	420.486
109	682778.345	798354.041	420.404
110	682779.576	798347.836	420.333
111	682779.717	798343.582	420.532

UNIVERSAL INSPECTION REQUEST

RECEIPT of NOTIFICATION - Minimum Notice Period not less than 24 Hours
The Work described below will be complete and ready for inspection at planned time shown

Contractor Company	الشركة الهندسية		Designer Company	Spectrum	
Issued by Contractor	Name	Sign	Date	Time	
Contractor UIR Reference	Mohamed Sayed				
Received by ER	Abdellatif Attia (AATTIA)		UIR	C1: BF2 / C2: Sw / C3: [illegible]	DD / MM / YY / HH / MM

CODE-1 51 to 521 Station Reference	CODE-1 01 to 51 Depot Reference	CODE-1 Kp KKK For Kilometer point only	CODE-2 Work Activity	CODE-3 Sub Element of Activity

EXPLANATION OF WORK TO BE INSPECTED

Area	Element	Item
ROAD-D6 (0+000 TO 0+400)	FROM ST.(0+325) TO (0+400)	Layer Level (شبكة قاع)

Inspection Description : (LEft Side) صفر

INSPECTION DETAILS The Following will be ready at the Planned Inspection Time

Planned Inspection Date	Planned Inspection Time

COMPLIANCE EVIDENCE Must be included as appropriate

Checklist Attached ☐	Test Results Attached ☐	Calibration Attached ☐	Other as indicated ☐
Drawing Reference	ITP Reference		MS Reference
Other Attachments	Surveying sheets (Master sheets +cross sections + width sheet)		
Plan profile Rev	NA		NA

Comments by :GARB Survey Consultant (XYZ)	Comments by: General Consultant (SYSTRA)
Survey ng works (levels-Coords-width) Are inspection and found work may :	

INSPECTION RESULT

	Name	Sign	Date	Time	Approval Status A-AWC R	Please Tick if Not Attend
Organisation						
Contractor Engineer	Mohamed Sayed					
Contractor QA/QC	XYZ				A	
	Spectrum					
GARB*						
Employers Representative	Abdellatif Attia (AATTIA)				A	

* Alignment: Bridges, Culvert Only

Instructions for Use:

☐ The Contractor should continue work using their CHECKLIST of inspection items progressively

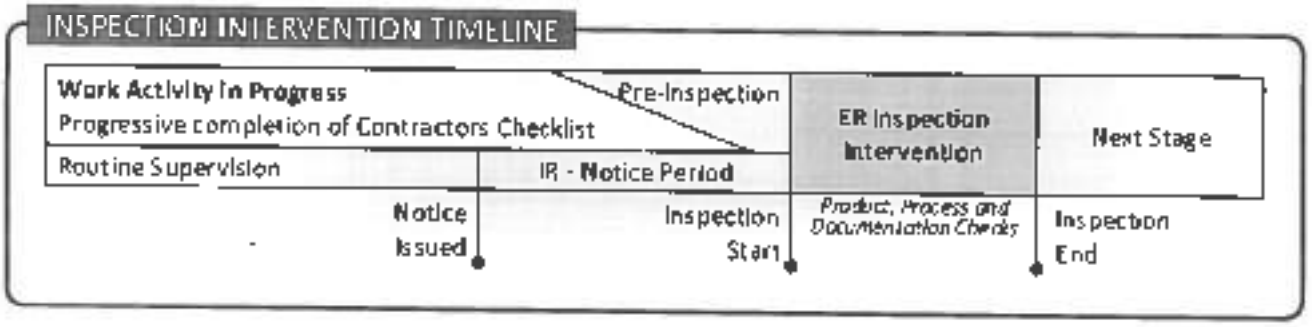
☐ The Contractor should do their own INTERNAL pre-inspection and correct any minor defects before final inspection and if necessary, advise Employer's Representative (ER) of possible delay to arrange correction. Contractor should update their CHECKLIST and their own INTERNAL Comments sheet to show the Inspection is satisfactory completed.

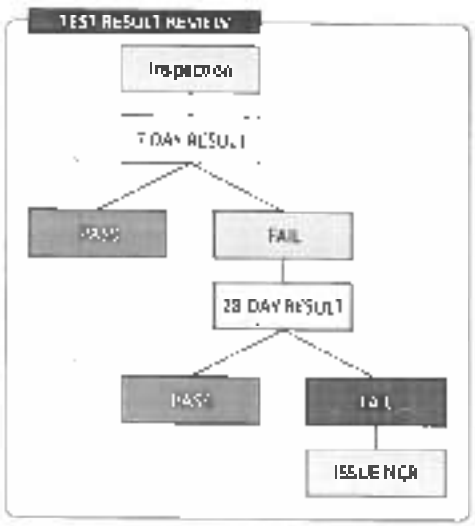
☐ The Contractor Engineer and their QA/QC team should sign the UIR Form before ER inspection. If the work is not ready, they should delay the inspection and not sign the UIR. Comments at this stage are not expected although eg: minor cleaning prior to concrete pour will be allowed

☐ The ER shall attend as indicated and check the Contractors supporting Drawings, Test results, Per-inspection signed sheets and check dimensions, alignment, workmanship, etc. If satisfied ER shall sign the UIR Code A = Approved, or shall add relevant comments and add AWC = Approved with Comments and the next stage may progress when the comments have been resolved, or shall add R = Rejected as the work is not satisfactory and must be corrected and reinspected

AWC or R will require a new UIR Form to be issued and the inspection process will re-start at a new date/time

☐ When Approved without comments, the next stage of work may progress





Inspection COMMENTS must be factual

Delayed test results may apply to every discipline at an inspection. When available, may require inspection records to be reviewed for previous work.

It is known that tests results taken during inspection will be available at some date in the future (eg 7 and 28 Days).

The purpose of the UIR is to verify the work stage is ready to progress now. If the Work is ready to progress at the Inspection, then it must be Approved and allowed to progress without comment. This is to avoid returning to old AWC records and revise to A.

Review of Test Results is just another stage of the work activity, and result reviews have their own lifecycle. The test results shall be assessed when available, and if they fail to meet the necessary compliance requirements, an **NCR shall be issued** to track the correction process.

وزارة النقل
MINISTRY OF TRANSPORT

مشروع إنشاء القطار السريع
القطاع (طريق 06) من المحطة 0+000 إلى المحطة 0+400

Inspection Request

طلب رقم	إصدار
7	

تاريخ	/ /2022

- مرفق الرفع المساحي (عدد ورقة)

تسليم شبكية قاع حفر مناوحفة 0+325 الى محطة 0+400 (LEFT Side)

مهندس المكتب الفني	مدير المشروع

ملاحظات الإستعمال:

بعد (A)	بعد من تلك الملاحظات (B)	بعد التقديم مع تلك الملاحظات وهذه المثلثة (C)	مرفوض (D)
☐	☐	☐	☐

شركة المنفذ: الهندسة للنقل والطرق والصرف الصحي	إسم المساعة (مكتب الـ X.Y.Z)	(مكتب استشاري)
الاسم:	الاسم:	الاسم:
التوقيع:	التوقيع:	التوقيع:
التاريخ:	التاريخ:	التاريخ:

SPECTRUM CONSULTING

المشروع القطار السريع - قطاع الواحة

SPECTRUM

الشركة الهندسية

وزارة النقل
الشركة العامة للطرق والجسور
والنقل البري

محضر استلام الميزانية الشبكية من الشركات المنفذة

التاريخ: / /2022

اسم المشروع: مشروع الخط السريع (العين السخنة – العلمين)

قامت شركة اكس واي زد (X.Y.Z) للأعمال المساحية (استشاري الاعمال المساحية لهيئة الطرق و الكباري) باستلام الميزانية الشبكية

من شركة الهندسية للطرق والكباري والمرفق الصحي

طريق رقم 06

من المحطه رقم 04525 الى المحطه رقم 04700 (left Side)

بنود مهمة يجب ان يتم استيفائها قبل الاستلام:

- يتم استلام البيانات بعد الانتهاء من الرصد مباشرة من الجهاز المستخدم باي صيغة (RAW DATA)
- يتم اعتماد طريقة الميزانية المنتظمة و المتقدمة فقط في مشروع الخط السريع.
- يتم اعتماد الارصاد و تمرير الخط على المرفوعة بالجهة معلومة و لها شهادات معايرة سارية حديثة فقط لا تقل مدة اخر معايرة للجهاز عن 3 اشهر.
- يتم مراجعة شهادات المعايرة مع التوكيل بشكل مباشر و في حالة ظهور شهادات مزورة يتم استبعاد الجهاز و الشخص المسئول عنه.
- يجب ان يكون القائم باعمال الميزانية الشبكة من المتخصصين في مجال المساحة و له خبرة مناسبة.
- تتم مطابقة الاستلام الاعمال في الموقع و في حالة عدم مطابقة المنسوب في اكثر من 4 اماكن موزعين في المنطقة , لا يعتمد الميزانية المستلمة و تتم اعادة رصدها.

ملاحظات :-

الاسم: محمد حسين الله

التوقيع:

الشركة المصرية للطرق والكباري

الاسم: أحمد الصوفي

مشروع الخط السريع قطاع العلمين

التوقيع:

استشاري المساحة مكتب XYZ

POINT	EASTING	NORTHING	ELEVATION
1	682708.972	798352.951	420.881
2	682708.161	798358.072	420.734
3	682707.538	798363.832	420.651
4	682706.861	798370.263	420.63
5	682717.591	798371.693	420.395
6	682718.663	798366.543	420.447
7	682719.377	798361.054	420.529
8	682720.683	798355.527	420.611
9	682731.107	798357.034	420.566
10	682730.476	798361.879	420.459
11	682729.821	798367.187	420.312
12	682728.93	798373.254	420.265
13	682739.809	798374.868	420.04
14	682740.929	798369.484	420.183
15	682741.886	798363.682	420.306
16	682742.657	798358.711	420.507
17	682752.64	798360.096	420.387
18	682751.981	798364.928	420.191
19	682751.423	798369.923	420.079
20	682750.805	798376.056	420.198
21	682762.437	798376.86	420.064
22	682763.491	798371.605	419.985
23	682764.01	798366.716	419.983
24	682764.806	798361.579	420.212
25	682780.805	798363.142	420.179
26	682780.501	798368.213	420.033
27	682780.351	798373.44	420.188
28	682779.144	798378.957	420.414

مشروع القطار السريع - مطار

UNIVERSAL INSPECTION REQUEST

RECEIPT of NOTIFICATION - Minimum Notice Period not less than 24 Hours

The Work described below will be complete and ready for inspection at planned time shown

Contractor Company		Designer Company	Spectrum
Issued by Contractor	Name: Mohamed Sayed Sign:	Date: 10-12-2022	Time:
Contractor UIR Reference	8		
Received by EN	Abdellatif Attia (AATTIA)	UIR	C1: S2 C2: Sum EW C3: Int Roads DD MM YY HH MM

CODE-1 S1 to S21 Station Reference	CODE-1 D1 to D3 Depot Reference	CODE-1 Kp XXX For Kilometer point only	CODE-2 Work Activity	CODE-3 Sub Elements of Activity

EXPLANATION OF WORK TO BE INSPECTED

Area	Element	Item
ROAD 06 (0+000 TO 0+400)	FROM ST 0+245 TO 0+325	Layer Level (-0.75)

Inspection Description : (left Side)

INSPECTION DETAILS The Following will be ready at the Planned Inspection Time

Planned Inspection Date	Planned Inspection Time

COMPLIANCE EVIDENCE Must be included as appropriate

Checklist Attached ☐	Test Results Attached ☐	Calibration Attached ☐	Other as indicated ☐

Drawing Reference	ITP Reference	MS Reference
Other Attachments	Surveying sheets (Master sheets +cross sections + width sheet)	
Plan profile Rev	NA	NA

Comments by :GARB Survey Consultant (XYZ)	Comments by: General Consultant (SYSTRA)
Surveying works (levels-Coords-width) Are inspection and found work may .	

INSPECTION RESULT

	Name	Sign	Date	Time	Approval Status A-AWCR	Please Tick if Not Attend
Organisation Contractor Engineer	Mohamed Sayed		10-12-2022			
Contractor QA/QC: XYZ					A	
Contractor QA/QC: Spectrum						
GARB*						
Employers Representative	Abdellatif Attia (AATTIA)				A	

* Alignment: Bridges: Culvert Only

Instructions for Use:

☐ The Contractor should continue work using their CHECKLIST of inspection items progressively

☐ The Contractor should do their own INTERNAL pre-inspection and correct any minor defects before final inspection and if necessary, advise Employer's Representative (ER) of possible delay to arrange correction. Contractor should update their CHECKLIST and their own INTERNAL Comments sheet to show the inspection is satisfactory completed.

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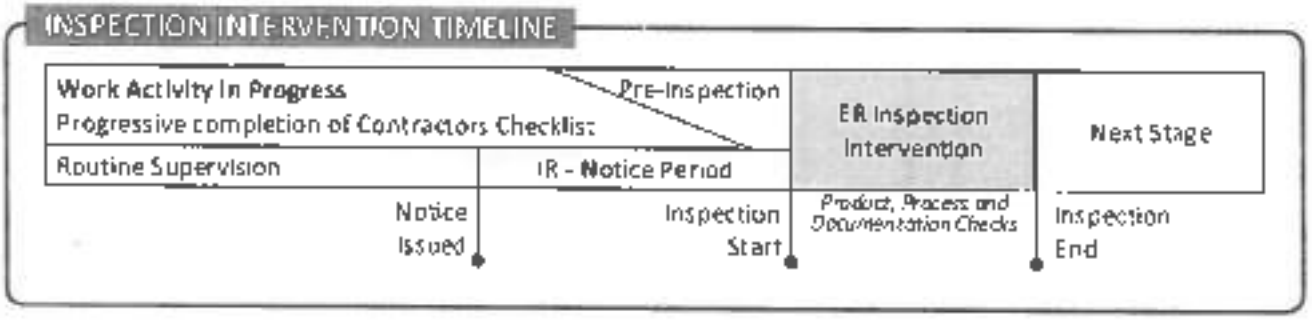
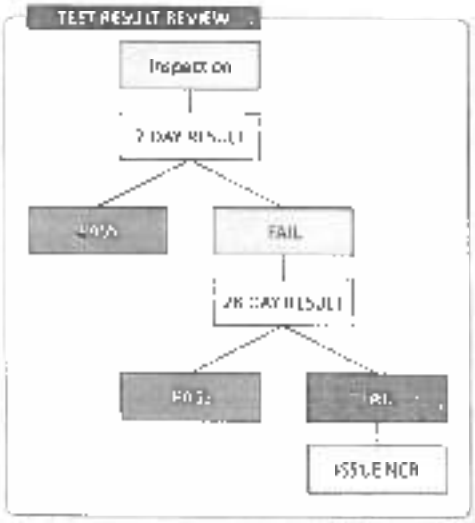
AWC or R will require a new UIR Form to be issued and the inspection process will re-start at a new date/time

☐ When Approved without comments, the next stage of work may progress





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Delayed test results may apply to every discipline at an inspection. When available, may require inspection records to be reviewed for previous work.

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Review of Test Results is just another stage of the work activity, and result reviews have their own lifecycle. The test results shall be assessed when available, and if they fail to meet the necessary compliance requirements, an **NCR shall be issued** to track the correction process

وزارة النقل

مشروع انشاء القطار السريع
القطاع (طريق 06) من المحطة 0+000 إلى المحطة 0+400

Inspection Request

طلب رقم	صدر
9	

التاريخ
2022 / /

. مرفق الرفع المساحي (عدد ورقة)

طبقة ردم (-075) من المحطة 0+225 إلى المحطة 0+325 (EFT)

مهندس المكتب الفني	مدير المشروع

ملاحظات الإعتماد:

يعتمد (A)	يعتمد مع تعليق (B)	يعاد تقديمه بعد الملاحظات رغم تعهد (C)	مرفوض (D)
☐	☐	☐	☐

شركة تنفيذ الهندسة للطرق والكباري والمترو المحدودة	لجنة الفحص (مكتب ECH)	استشاري هيئة الطرق و الكباري (مكتب الاشراف)
الاسم:	الاسم:	الاسم:
التوقيع:	التوقيع:	التوقيع:
التاريخ:	التاريخ: 8/12/2022	التاريخ:

SPECTRUM

الشركة الهندسية

Station	Easting	Northing
0+000.00	682387.579	798305.0463
0+025.00	682412.3249	798308.6021
0+050.00	682437.0707	798312.1579
0+075.00	682461.8165	798315.7138
0+100.00	682486.5624	798319.2696
0+125.00	682511.3082	798322.8254
0+150.00	682536.054	798326.3813
0+175.00	682560.7998	798329.9371
0+200.00	682585.5457	798333.4929
0+225.00	682610.2915	798337.0487
0+250.00	682635.0373	798340.6046
0+275.00	682659.7832	798344.1604
0+300.00	682684.529	798347.7162
0+325.00	682709.2748	798351.2721
0+350.00	682734.0206	798354.8279
0+375.00	682758.7665	798358.3837
0+400.00	682783.5123	798361.9396

MASTER SHEET FOR RD-06 (ZONE 0+000 TO 0+400)

FILL

STATION		0+000	0+025	0+050	0+075	0+100	0+125	0+150	0+175	0+200	0+225	0+250	0+275	0+300	0+325	0+350	0+375	0+400
FERMA LEVEL		424.01	423.82	423.63	423.43	423.24	423.05	422.86	422.67	422.47	422.28	422.09	421.90	421.70	421.51	421.32	421.13	420.93
Replacement LEVEL		423.01	422.82	422.63	422.43	422.24	422.05	421.86	421.67	421.47	421.28	421.09	420.90	420.70	420.51	420.32	420.13	419.93
Difference		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
	0	424.012	423.819	423.627	423.434	423.242	423.049	422.857	422.665	422.472	422.28	422.087	421.895	421.702	421.51	421.317	421.125	420.932
	-0.25	424.262	424.069	423.877	423.684	423.492	423.299	423.107	422.915	422.722	422.53	422.337	422.145	421.952	421.76	421.567	421.375	421.182
	-0.5	424.512	424.319	424.127	423.934	423.742	423.549	423.357	423.165	422.972	422.78	422.587	422.395	422.202	422.01	421.817	421.625	421.432
	-0.75	424.762	424.569	424.377	424.184	423.992	423.799	423.607	423.415	423.222	423.03	422.837	422.645	422.452	422.26	422.067	421.875	421.682
	-1	425.012	424.819	424.627	424.434	424.242	424.049	423.857	423.665	423.472	423.28	423.087	422.895	422.702	422.51	422.317	422.125	421.932

الهيئة العامة
للطرق و الكباري و النقل البري
<GARBLT>

قطاع الشركة الهندسية للطرق والكباري والصرف الصحي

طبقة : -0.75

ST	Left									C.L	Right								
	SIDE WALK		ROAD					SIDE WALK			SIDE WALK		ROAD					SIDE WALK	
	18.45	16.0	14.30	13.0	10.0	7.0	4.0	3.5	2.0		2.0	3.5	4.0	7.0	10.0	13.0	14.30	16.0	18.45
0+000	423.11	423.10	423.30	423.32	423.16	423.31	423.25	423.26	423.256	423.26	423.26	423.26	423.25	423.28	423.16	423.13	423.10	423.30	423.30
0+025	422.91	422.91	422.91	422.93	422.97	423.02	423.06	423.07	423.07	423.07	423.07	423.07	423.08	423.02	423.07	422.91	422.93	422.91	423.91
0+050	422.72	422.72	422.74	422.74	422.78	422.83	422.87	422.88	422.88	422.88	422.84	422.88	422.87	422.83	422.78	422.73	422.73	422.72	422.72
0+075	422.52	422.52	422.52	422.54	422.59	422.63	422.68	422.68	422.68	422.68	422.68	422.68	422.68	422.63	422.59	422.54	422.52	422.52	422.52
0+100	422.33	422.33	422.33	422.35	422.39	422.44	422.48	422.49	422.49	422.49	422.49	422.49	422.48	422.44	422.39	422.35	422.33	422.33	422.33
0+125	422.14	422.14	422.14	422.16	422.20	422.25	422.29	422.30	422.30	422.30	422.30	422.30	422.29	422.25	422.20	422.16	422.14	422.14	422.14
0+150	421.95	421.95	421.95	421.96	422.01	422.05	422.10	422.11	422.11	422.11	422.11	422.11	422.10	422.05	422.01	421.96	421.95	421.95	421.95
0+175	421.75	421.75	421.75	421.77	421.82	421.86	421.91	421.92	421.92	421.92	421.92	421.92	421.91	421.86	421.82	421.77	421.75	421.75	421.75
0+200	421.56	421.56	421.56	421.58	421.62	421.67	421.71	421.72	421.72	421.72	421.72	421.72	421.71	421.67	421.62	421.58	421.56	421.56	421.56
0+225	421.37	421.37	421.37	421.39	421.43	421.48	421.52	421.53	421.53	421.53	421.53	421.53	421.52	421.48	421.43	421.39	421.37	421.37	421.37
0+250	421.18	421.18	421.18	421.20	421.24	421.28	421.33	421.34	421.34	421.34	421.34	421.34	421.33	421.28	421.24	421.20	421.18	421.18	421.18
0+275	420.98	420.98	420.98	421.00	421.05	421.09	421.14	421.15	421.15	421.15	421.15	421.15	421.14	421.10	421.05	421.01	420.98	420.98	420.98
0+300	420.79	420.79	420.79	420.81	420.85	420.90	420.94	420.95	420.95	420.95	420.94	420.95	420.94	420.90	420.85	420.81	420.79	420.79	420.79
0+325	420.60	420.60	420.60	420.62	420.66	420.71	420.75	420.76	420.76	420.76	420.76	420.76	420.75	420.71	420.66	420.62	420.60	420.60	420.60
0+350	420.41	420.41	420.41	420.43	420.47	420.51	420.56	420.57	420.57	420.57	420.57	420.57	420.56	420.51	420.47	420.42	420.41	420.41	420.41
0+375	420.22	420.22	420.22	420.23	420.28	420.32	420.37	420.38	420.38	420.38	420.38	420.38	420.37	420.32	420.28	420.23	420.22	420.22	420.22
0+400	420.03	420.03	420.03	420.04	420.08	420.13	420.17	420.18	420.18	420.18	420.18	420.18	420.17	420.13	420.08	420.04	420.03	420.03	420.03

LAYERS WIDTH FROM 0+000 TO 0+400

Width Left	Layer	Width Right	Total Width
17.32	ferma	17.32	34.65
17.70	-0.25	17.70	35.40
18.07	-0.50	18.07	36.15
18.45	-0.75	18.45	36.90
18.82	-1.00	18.82	37.65

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E
3 ABD EL-KAWY AHMED St. , MOHANDEESEEN - GIZA
Tel. : 3448413 - Fax. : 3031719

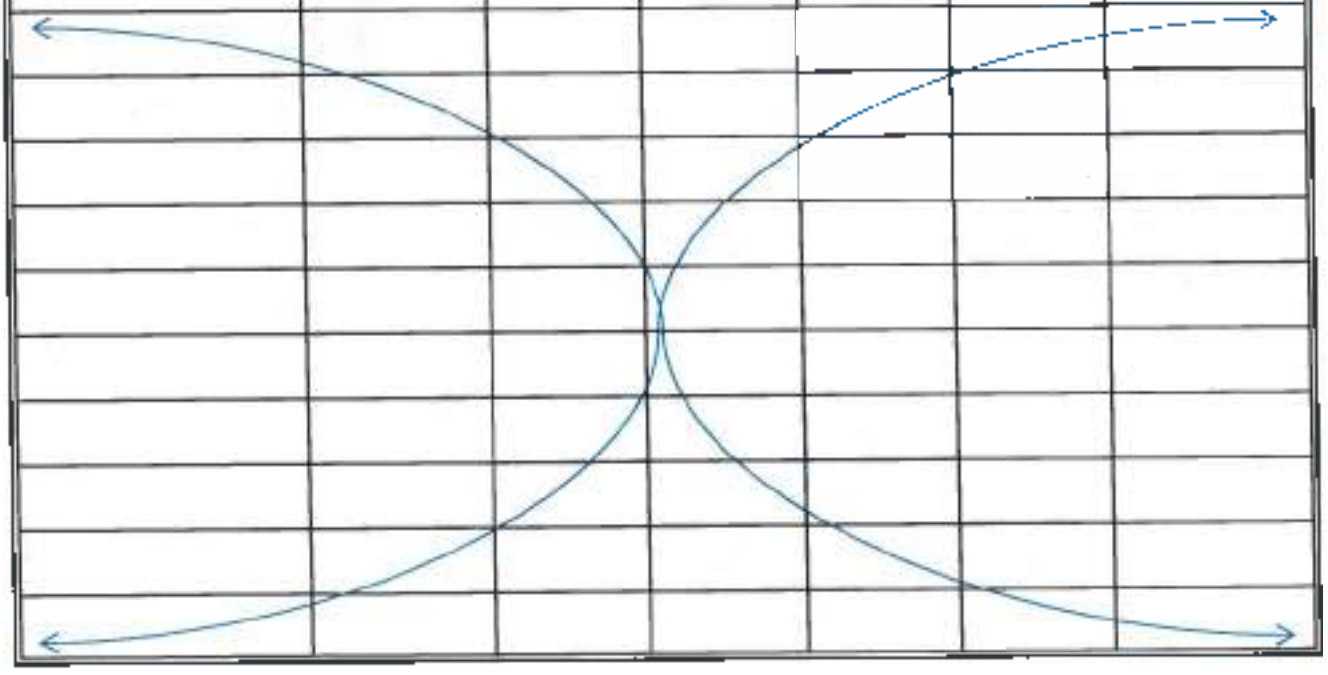
Project: Electric Express Train.15 May Sector — *File No.: 4800/S*

Client : الشركة الهندسية — *Date 10/12/2022*

Density of Soil In-Place By Sand-Cone Method (ASTM D-1556)

Date of testing	*08-12-22*
Location	*000+225 to 000+325*
Description Of Tested Material	*Stone , Gravel & Sand*
Condition of the test	*Tested as found in the existing moisture content.*

Station	Level (m)	Bulk Density (gm/cm3)	Moisture Content (%)	Insitu Dry Density (gm/cm3)	Max Dry Density (gm/cm3)	Relative Compaction (%)
000+300	-0.75	2.111	6.4	1.984	2.040	97.3



Notes:

1- Test location were chosen and identified by the consultant.

2-Maximum Dry Density value was provided by client.

ARDAMAN Split
Egypt Express Train
Project

Prepared by : Eng. Rody Yehia

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.AE

3 ABD EL KAWY AHMED St. , MOHANDESEEN - GIZA
Tel. : 33448413 - Fax. : 33031719

Project: Electric Express Train - 15May Sector — *File No.: 4898/S*

Client: شركة الهندسية — *Date: 06/12/2022*

PARTICLE SIZE ANALYSIS OF SOILS AND MATERIALS FINER THAN # 200 Sieve ASTM D - 422

Sample delivery date: 05/12/2022
Sample Identification No. : Sample No. 932
Source of sample: St Stock Pile Road 6
Level (m) : _
Classification According to AASHTO: A-1-b
Percentage of materials finer than # 200: 16.1%

Sieve No.	Opening (mm)	Percentage Passing %	
3 in.	75	100.0	
2.5 in.	63.5	100.0	
2 in.	50	100.0	
1.5 in.	38	100.0	
1 in.	25	99.7	
3/4 in.	19	97.9	
1/2 in.	12.5	94.1	
3/8 in.	9.5	90.8	
No. 4	4.75	78.8	
No. 10	2.0	65.3	
No. 40	0.425	40.7	
No. 200	0.075	16.1	

Notes:-

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rody Yehia

ARDAMAN Split
Egypt Express Train Project

Reviewed by : Eng.Osama Mofiak

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E

3 ABD EL KAWY AHMED St. , MOHANDESEEN - GIZA
Tel. : 33408613 - Fax : 33031719

Project: Electric Express Train - 15May Sector ***File No.: 4896/S***

Client:-شركة الهندسية ***Date: 06/12/2022***

LIQUID LIMIT , PLASTIC LIMIT , AND PLASTICITY INDEX OF SOILS ACCORDING TO ASTM D4318

Sample delivery date: ***05/12/2022***

Sample Identification No. : ***Sample No. 932***

Source of sample: ***St Stock Pile Road 6***

Level (m) : _

Sample Identification No.	*Liquid Limit (%)*	*Plastic Limit (%)*	*Plasticity Index (%)*
Sample No. 932	*25.1*	*19.2*	*5.9*

- Notes:

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rody Yehia

ARDAMAN Split
Egypt Express Train Project

Reviewed by : Eng.Osama Moftah

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E

3 ABD EL-KAWY AHMED ST., MOHANDESEEN - GIZA
TEL.: 33448413 - FAX.: 33031719

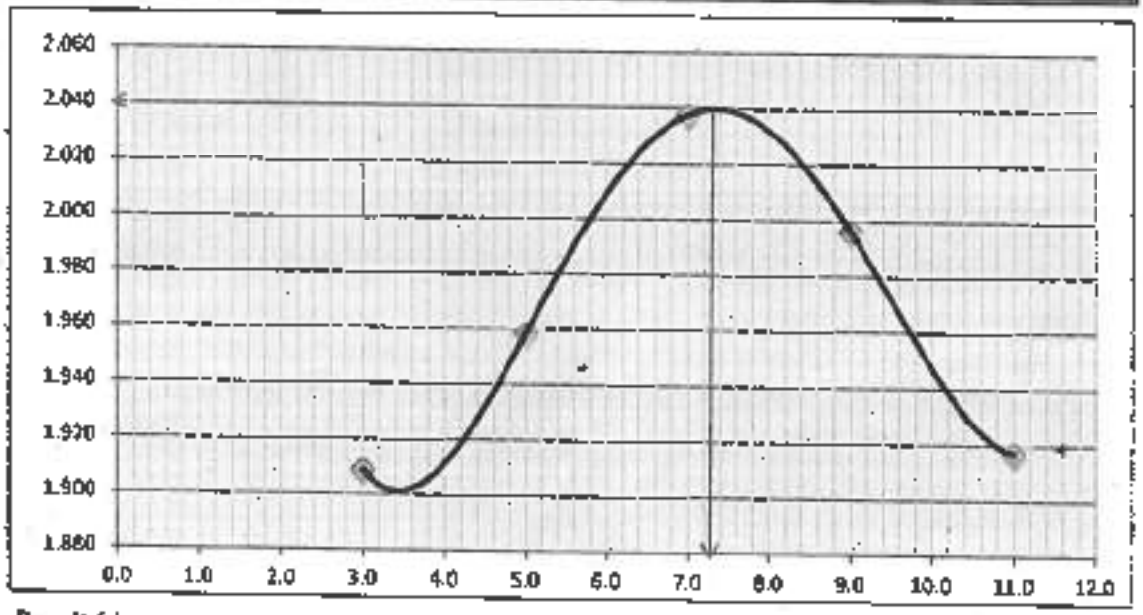
Project: Electric Express Train - 15May Sector *File No.: 4800/S*

Client: شركة الهندسية *Date: 06/12/2022*

MOISTURE DENSITY RELATIONSHIP OF SOIL ACCORDING TO ASTM D 1557

Sample delivery date: 05/12/2022
Sample Identification No. : Sample No. 932
Source of sample: St Stock Pile Road 6
Level (m) : -

Wet Unit Weight, gm/cm³	1.966	2.036	2.180	2.176	2.128
Water Content, %	3.0	5.0	7.0	9.0	11.0
Dry Unit Weight, gm/cm³	1.909	1.958	2.037	1.996	1.917



Result (s):

1- *Maximum dry density* = 2.040 t/m³
2- *Optimum moisture content* = 7.30 %

Note (s):

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rady Tehia

ARDAMAN Split
Egypt Express Train Project

Reviewed by : Eng.Ossama Mofrah

ARDAMAN *Split*

MATERIALS AND CONSTTRUCTION TESTING, SAE
3 ABD EL-KAWY AHMED St., MOHANDEESEEN - GIZA (Tel. : 33468413 - Mobile : 01006438245)

Project: Electric Express Train - 15 May Sector	File No.	4800/S
	Date	06/12/2022

CHEMICAL ANALYSIS REPORT

Letter Ref. No.	ARD-CH	50	Testing Date :6/12/2022

Type *of* Tested Material	SOIL (Ref.: AASHTO T-267)
Delivery Date	05/12/2022

Sample Code No.	Source	Level	Station	Organic Matter Content, %
932	شركة الهندسية	Stockpile	Road-6	0.562

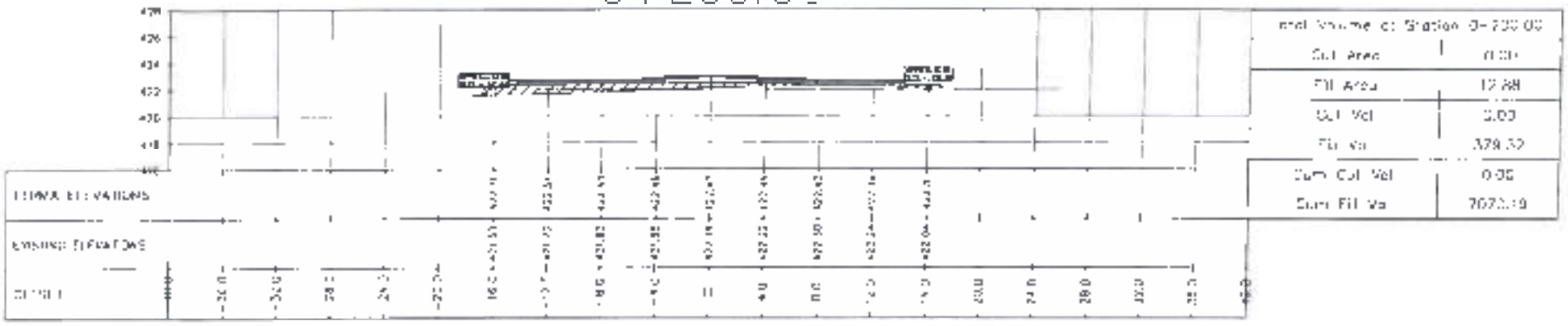
Criteria *of* Acceptance	1.0%

Note :	*The Samples were found Complying with the Project Specs.*

Prepared By: Chem/ Mina Ayman

ARDAMAN Split
Egypt Express Train
Project

0+200.00



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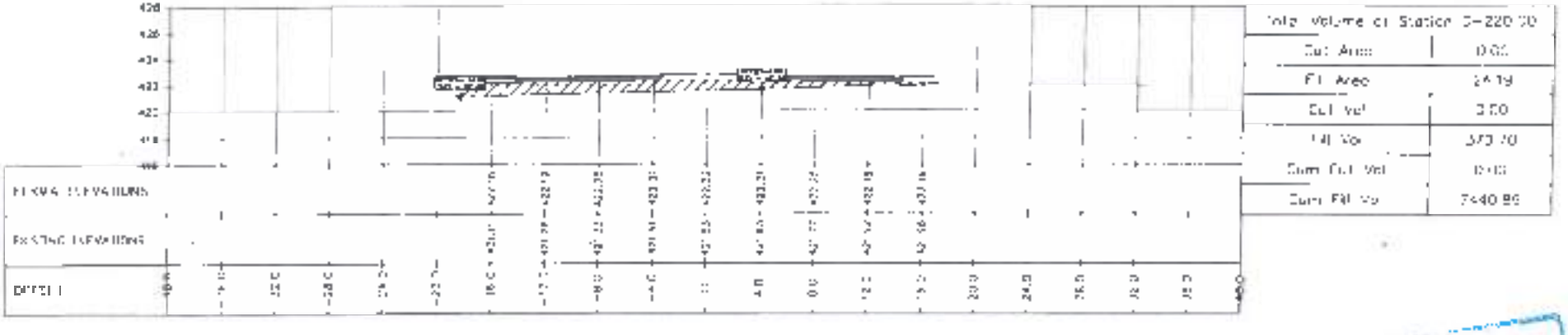
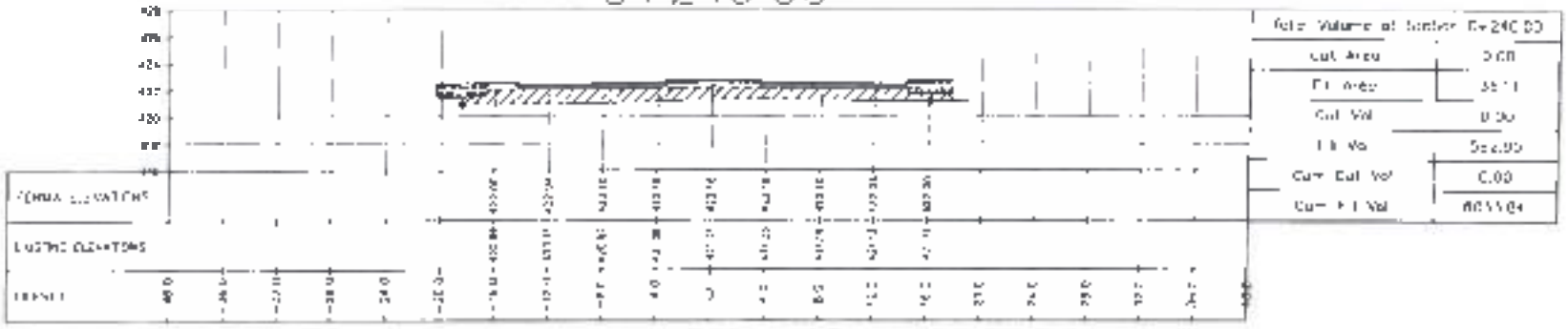


المملكة الأردنية الهاشمية
للطرق والجسور والمرافق الصحي
ب.ص ٥٧٧ - ٦٤٨
٥٧٤ / ١٠٧٦٥

0+240.00



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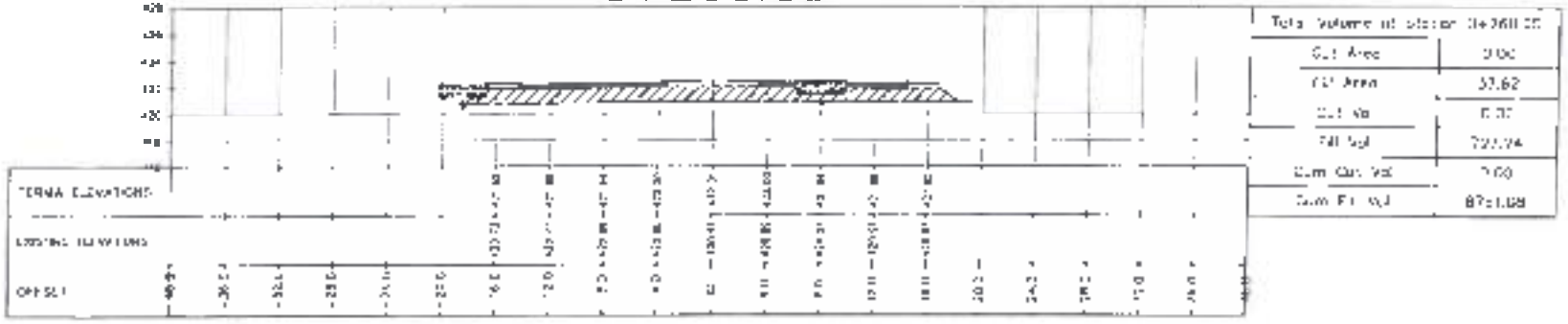

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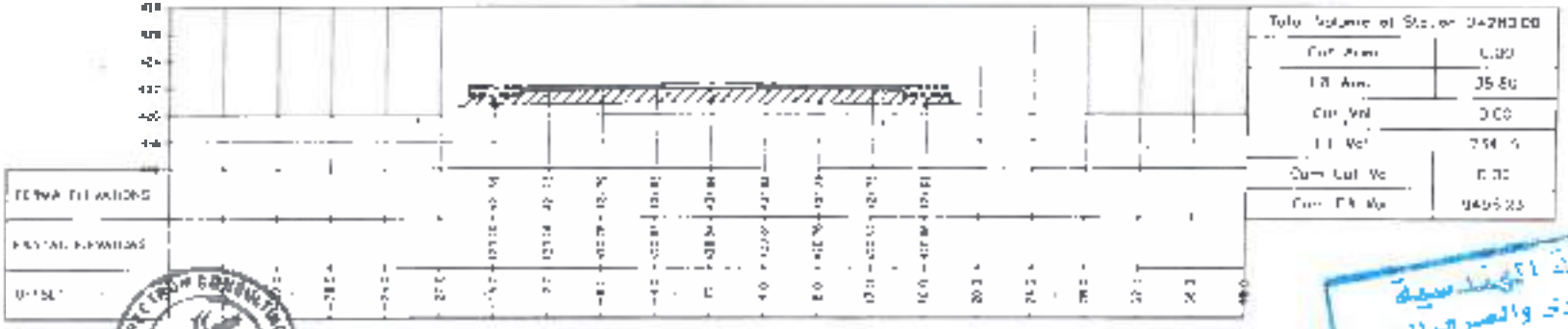
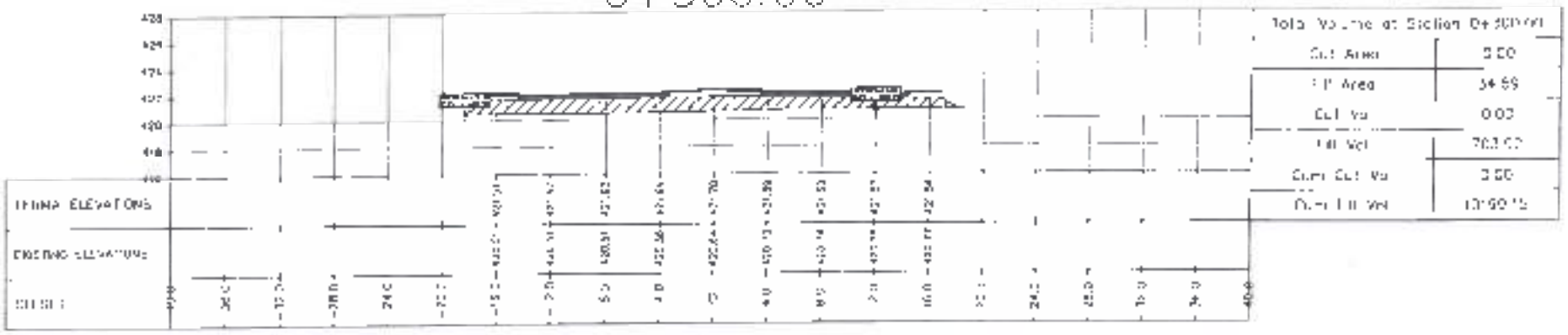


للتصريح بالحفريات والصرف الصحي
ت ص ن ٥٧٤ / ٦٤٨ / ٢٧٧
١-٧٦٥

0+300.00



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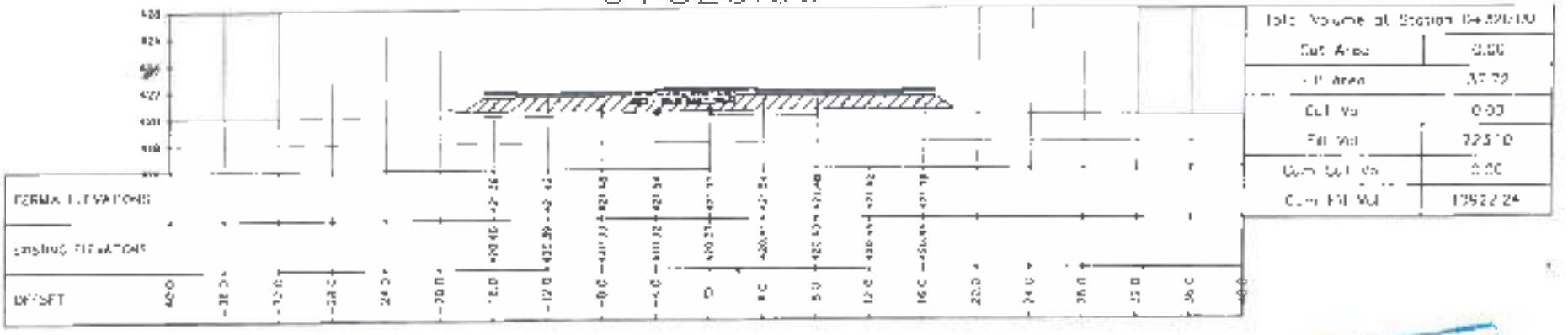


SPECTRUM CONSULTING

الشركة الهندسية
للطرق والجسور والمصرف الصحي
ب.ض : ٥٧٧
٥٧٤ / ٦٤٨

UNIVERSAL INSPECTION REQUEST

RECEIPT of NOTIFICATION - Minimum Notice Period not less than 24 Hours

The Work described below will be complete and ready for inspection at planned time shown

Contractor Company			Designer Company	Spectrum	
Issued by Contractor	Name	Sign	Date	Time	
	Mohamed Sayed		8-12-2022		
Contractor UIR Reference					
Received by ER	Abdellah Attia	AATTIA	UIR	C1: S2 / C2: Tem EW / C3: Pave.	DD MM YY HH MM

CODE-1 S1 to S21 Station Reference	CODE-1 D1 to D3 Depot Reference	CODE-1 K0 XXX For Kilometer point only	CODE-2 Work Activity	CODE-3 Sub Element of Activity

EXPLANATION OF WORK TO BE INSPECTED

Area	Element	Item
ROAD-DG-0 ... TO 0+400	FROM ST. 0+000 TO (0+100)	Layer Level (-0.75)

Inspection Description: (left side)

INSPECTION DETAILS The Following will be ready at the Planned Inspection Time

Planned Inspection Date	Planned Inspection Time

COMPLIANCE EVIDENCE Must be included as appropriate

Checklist Attached ☐	Test Results Attached ☐	Calibration Attached ☐	Other as indicated ☐
Drawing Reference	ITP Reference		MS Reference
Other Attachments	Surveying sheets (Master sheets + cross sections + width sheet)		
Plan profile Rev	NA		NA

Comments by GARE Survey Consultant (XYZ)	Comments by General Consultant (SYSTRA)
Surveying works (levels-Coords-width) Are inspection and found : work may :	2

INSPECTION RESULT

Organisation	Name	Sign	Date	Time	Approval Status A-AWC-R	Please Tick if Not Attend
Contractor Engineer	Mohamed Sayed		8-12-2022			
Contractor QA/QC XYZ					A	
Spectrum						
GARE*						
Employers Representative	Abdellah Attia	AATTIA	10.12.22		A	

*Alignment Design Consultant

Instructions for Use:

☐ The Contractor should continue work using their CHECKLIST of inspection items progressively

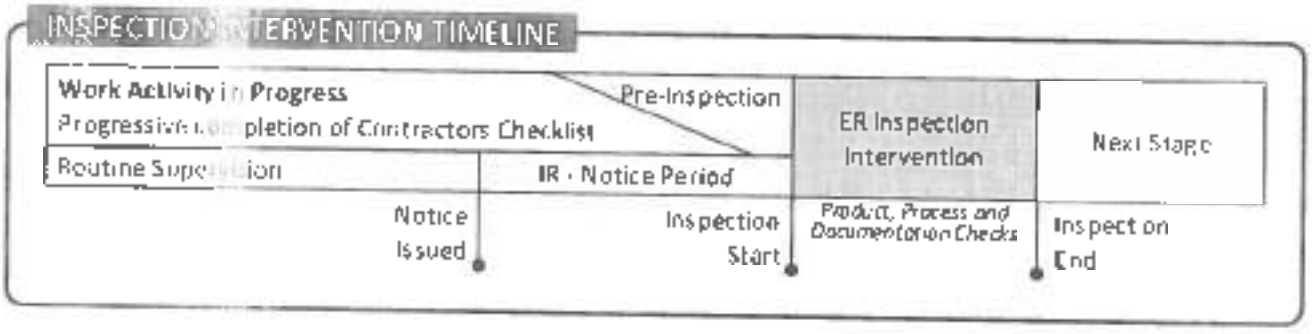
☐ The Contractor should do their own INTERNAL pre-inspection and correct any minor defects before final inspection and if necessary, advise Employer's Representative (ER) of possible delay to arrange correction. Contractor should update their CHECKLIST and their own INTERNAL Comments sheet to show the inspection is satisfactory completed

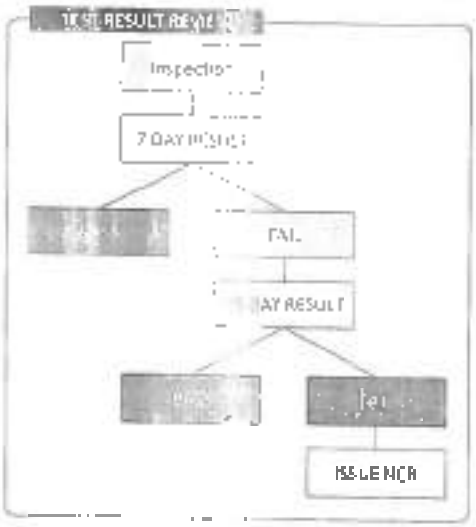
☐ The Contractor Engineer and their QA/QC team should sign the UIR Form before ER inspection. If the work is not ready, they should delay the inspection and not sign the UIR. Comments at this stage are not expected although eg. minor cleaning prior to concrete pour will be allowed

☐ The ER shall attend as indicated and check the Contractors supporting Drawings, Test results, Per inspection signed sheets and check dimensions, alignment, workmanship, etc. If satisfied ER shall sign the UIR Code A = Approved, or shall add relevant comments and add AWC = Approved with Comments and the next stage may progress when the comments have been resolved, or shall add R = Rejected as the work is not satisfactory and must be corrected and reinspected

AWC or R will require a new UIR Form to be issued and the inspection process will re-start at a new date/time

☐ When Approved without comments, the next stage of work may progress





Inspection COMMENTS must be factual

Delayed test results may apply to every discipline at an inspection. When available, may require inspection records to be reviewed for previous work.

It is known that tests results taken during inspection will be available at some date in the future (eg 7 and 28 Days).

The purpose of the UIR is to verify the work stage is ready to progress now. If the Work is ready to progress at the Inspection, then it must be Aporoved and allowed to progress without comment. This is to avoid returning to old AWC records and revise to A.

Review of test Results is just another stage of the work activity, and result reviews have their own lifecycle. The test results shall be assessed when available, and if they fail to meet the necessary compliance requirements, an NCR shall be issued to track the correction process.

وزارة النقل

مشروع إنشاء القطار الخفيف
القطاع (خريل 06) من المحطة 0+000 إلى المحطة 0+400

Inspection Request

على رقم	المتر
8	

التاريخ	2016/ /

- مرفق الرفع المساحي (عدد ورقة)

(left side)

طبقة ردم (-0.75) من المحطة 0+000 الى المحطة 0+100

مهندس المكتب الفني	مدير المشروع

ملاحظات الإعتماد:

بالموافقة (A)	معلق مع تلافي الملاحظات (B)	معاد للتقديم مع تلافي الملاحظات عند التقدم (C)	مرفوض (D)
☐	☐	☐	☐

الشركة المقاولة الهندسية لطرق والقطار والصرف الصحي	شركة هبة السادة (مكتب الـ NCE)	تشارم هبة الفنون و الكهرباء (مكتب استشاري)
الاسم:	الاسم:	الاسم
التوقيع:	التوقيع:	التوقيع
التاريخ:	التاريخ:	التاريخ

مشروع قطار السريع - قطاع العاصمة

SPECTRUM

الشركة الهندسية

Station	Easting	Northing
0+000.00	682387.579	798305.0463
0+025.00	682412.3249	798308.6021
0+050.00	682437.0707	798312.1579
0+075.00	682461.8165	798315.7138
0+100.00	682486.5624	798319.2696
0+125.00	682511.3082	798322.8254
0+150.00	682536.054	798326.3813
0+175.00	682560.7998	798329.9371
0+200.00	682585.5457	798333.4929
0+225.00	682610.2915	798337.0487
0+250.00	682635.0373	798340.6046
0+275.00	682659.7832	798344.1604
0+300.00	682684.529	798347.7162
0+325.00	682709.2748	798351.2721
0+350.00	682734.0206	798354.8279
0+375.00	682758.7665	798358.3837
0+400.00	682783.5123	798361.9396

الهيئة العامة
للطرق و الكباري و النقل البري
(GARBLT)

LAYERS WIDTH FROM 0+000 TO 0+400

Width Left	Layer	Width Right	Total Width
17.32	ferma	17.32	34.65
17.70	-0.25	17.70	35.40
18.07	-0.50	18.07	36.15
18.45	-0.75	18.45	36.90
18.82	-1.00	18.82	37.65

الهيئة العامة
للطرق و الكباري و النقل البري
«GARBLT»

الشركة الهندسية

قطاع الشركة الهندسية للطرق والكباري والصرف الصحي

طبقة : -0.75

ST	Left									C.L	Right								
	SIDE WALK		ROAD					SIDE WALK			SIDE WALK		ROAD					SIDE WALK	
	18.45	16.0	14.30	13.0	10.0	7.0	4.0	3.5	2.0		2.0	3.5	4.0	7.0	10.0	13.0	14.30	16.0	18.45
0+000	423.10	423.10	423.10	423.12	423.16	423.21	423.25	423.26	423.26	423.26	423.26	423.26	423.25	423.21	423.16	423.11	423.10	423.10	423.10
0+025	422.91	422.91	422.91	422.93	422.97	423.02	423.06	423.07	423.07	423.07	423.07	423.07	423.06	423.02	422.97	422.93	422.91	422.91	422.91
0+050	422.72	422.72	422.72	422.73	422.78	422.82	422.87	422.88	422.88	422.88	422.88	422.88	422.87	422.82	422.78	422.73	422.72	422.72	422.72
0+075	422.52	422.52	422.52	422.54	422.59	422.63	422.68	422.68	422.68	422.68	422.68	422.68	422.68	422.63	422.59	422.54	422.53	422.52	422.52
0+100	422.33	422.33	422.33	422.35	422.39	422.44	422.48	422.49	422.49	422.49	422.49	422.49	422.48	422.44	422.39	422.35	422.33	422.33	422.33

الشركة الهندسية
للطرق والكباري والصرف الصحي
ت ص / ٦٤٨ / ٢٧٤
١٠٧٦٥

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E
3 ABD EL-KAWY AHMED St., MOHANDEESEEN - GIZA
Tel. - 3448413 - Fax. : 3031719

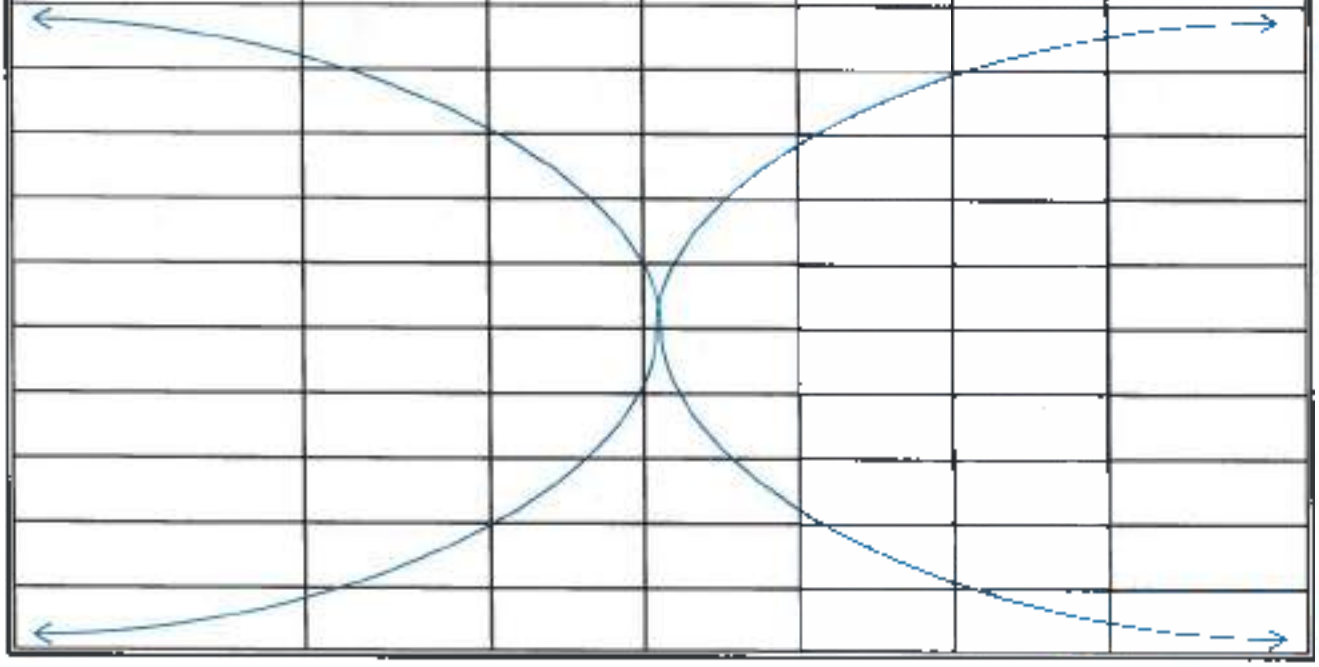
Project: Electric Express Train.15 May Sector — *File No.: 4800/S*

Client : الشركة الهندسية — *Date 10/12/2022*

Density of Soil In-Place By Sand-Cone Method (ASTM D-1556)

Date of testing	*08-12-22*
Location	*000+000 to 000+100*
Description Of Tested Material	*Stone , Gravel & Sand.*
Condition of the test	*Tested as found in the existing moisture content.*

Station	Level (m)	Bulk Density (gm/cm3)	Moisture Content (%)	Insitu Dry Density (gm/cm3)	Max Dry Density (gm/cm3)	Relative Compaction (%)
000+050	-0.75	2.161	6.3	1.977	2.040	96.9



Notes:

1- Test location were chosen and identified by the consultant.

2-Maximum Dry Density value was provided by client.

ARDAMAN Split
Egypt Express Train
Project

Prepared by : Eng. Rody Yehia

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.AE

3 ABD EL-KAWY AHMED St. , MOHANDESEEN - GIZA
Tel. : 33448413 - Fax. : 33031719

Project: Electric Express Train - 15May Sector ***File No.: 4800/S***

Client: شركة الهندسية ***Date: 06/12/2022***

PARTICLE SIZE ANALYSIS OF SOILS AND MATERIALS FINER THAN # 200 Sieve ASTM D - 422

Sample delivery date: *05/12/2022*
Sample Identification No. : *Sample No. 932*
Source of sample: *St Stock Pile Road 6*
Level (m) : _
Classification According to AASHTO: *A-1-b*
Percentage of materials finer than # 200: *16.1%*

Sieve No.	Opening (mm)	Percentage Passing %	
3 in.	75	100.0	
2.5 in.	63.5	100.0	
2 in.	50	100.0	
1.5 in.	38	100.0	
1 in.	25	99.7	
3/4 in.	19	97.9	
1/2 in.	12.5	94.1	
3/8 in.	9.5	90.8	
No. 4	4.75	78.8	
No. 10	2.0	65.3	
No. 40	0.425	40.7	
No. 200	0.075	16.1	

Notes:-

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rody Yehia

ARDAMAN Split
Egypt Express Train Project

Reviewed by : Eng.Osama Moftah

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E

3 ABD EL KAWY AHMED St. , MOHANDESEEN - GIZA
Tel. : 33448413 - Fax. : 33031719

Project: Electric Express Train - 15May Sector ***File No.: 4890/S***

Client: شركة الهندسية ***Date: 06/12/2022***

LIQUID LIMIT , PLASTIC LIMIT , AND PLASTICITY INDEX OF SOILS ACCORDING TO ASTM D4318

Sample delivery date: ***05/12/2022***

Sample Identification No. : ***Sample No. 932***

Source of sample: ***St Stock Pile Road 6***

Level (m) : -

Sample Identification No.	*Liquid Limit (%)*	*Plastic Limit (%)*	*Plasticity Index (%)*
Sample No. 932	*25.1*	*19.2*	*5.9*

- Notes:

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rody Yehia

ARDAMAN Split
Egypt Express Train Project

Reviewed by : Eng.Osama Moftah

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E

3 ABD EL-KAWY AHMED ST., MOHANDESEEN - GIZA
TEL.: 33440413 - FAX.: 33031719

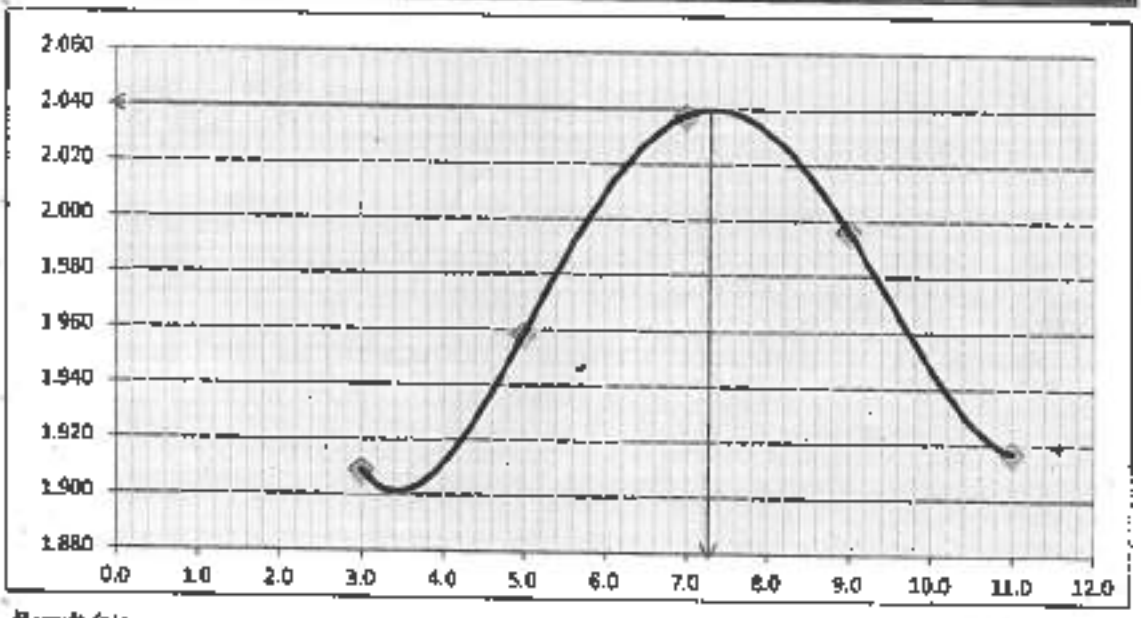
Project: Electric Express Train - 15May Sector — *File No.: 4806/S*

Client: شركة الهندسية — *Date: 06/12/2022*

MOISTURE DENSITY RELATIONSHIP OF SOIL ACCORDING TO ASTM D 1557

Sample delivery date: 05/12/2022
Sample Identification No. : Sample No. 932
Source of sample: St Stock Pile Road 6
Level (m) : -

Wet Unit Weight, gm/cm³	1.966	2.056	2.180	2.176	2.128
Water Content, %	3.0	5.0	7.0	9.0	11.0
Dry Unit Weight, gm/cm³	1.909	1.958	2.037	1.996	1.917



Result (s):

1- Maximum dry density = 2.040 t/m³
2- Optimum moisture content = 7.30 %

Note (s):

1- The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rady Tehia

ARDAMAN Split
Egypt Express Train Project

Reviewed by : Eng. Osama Mayfak

ARDAMAN *Split*

MATERIALS AND CONSTTRUCTION TESTING, SAE

3 ABD EL-KAWY AHMED St., MOHANDEESEEN - GIZA (Tel. : 33448413 - Mobile : 01066438248)

Project: Electric Express Train - 15 May Sector	**File No.**	**4800/S**
	Date	**06/12/2022**

CHEMICAL ANALYSIS REPORT

Letter Ref. No.	**ARD-CH**	**50**	**Testing Date :6/12/2022**

Type *of* Tested Material	**SOIL (Ref.: AASHTO T-267)**
Delivery Date	**05/12/2022**

Sample Code No.	Source	Level	Station	Organic Matter Content, %
932	شركة الهندسية	Stockpile	Road-6	0.562

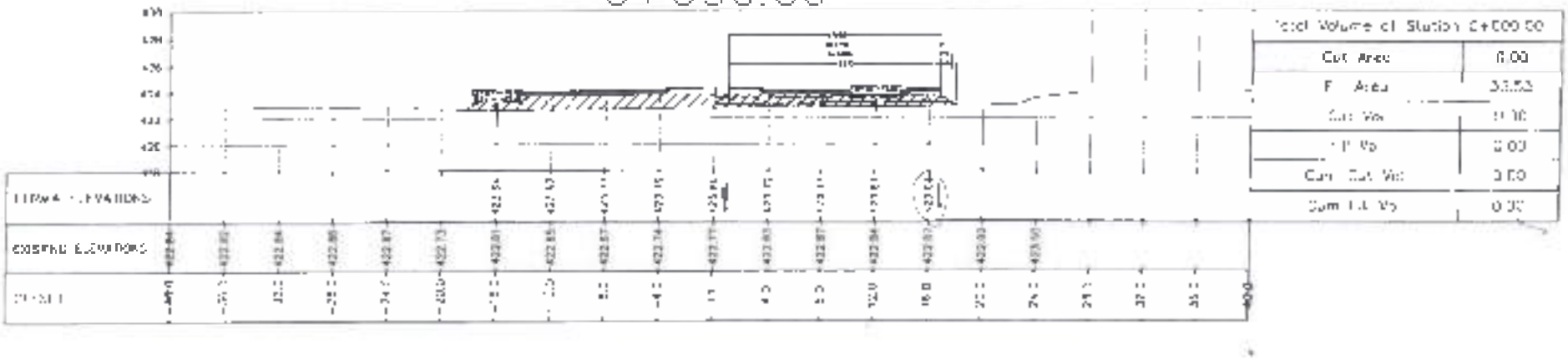
Criteria *of* Acceptance	**1.0%**

Note :	***The Samples were found Complying with the Project Specs.***

Prepared By: Chem/ Mina Ayman

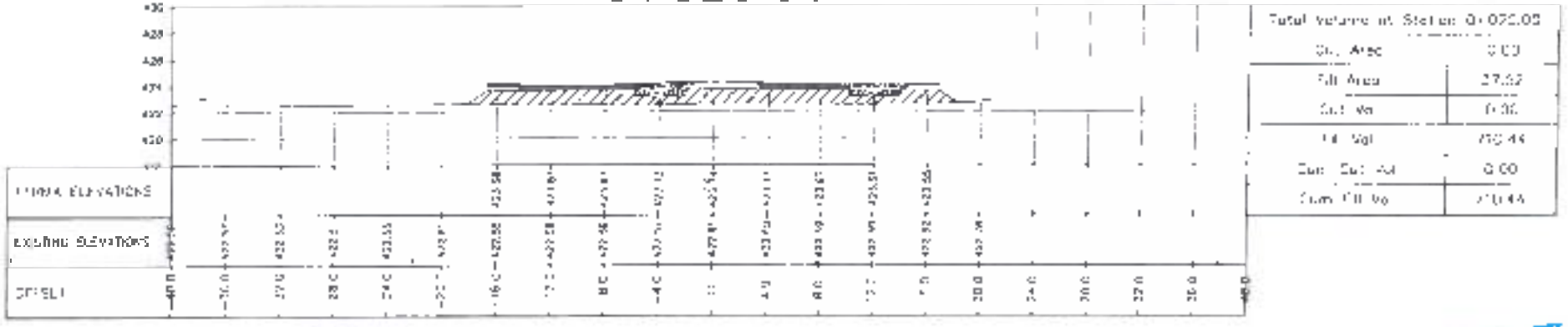
ARDAMAN Split
Egypt Express Train
Project

0+000.00



Total Volume at Station 0+000.00	
Cut Area	0.00
Fill Area	33.53
Cut Vol	0.00
Fill Vol	0.00
Cum Cut Vol	0.00
Cum Fill Vol	0.00

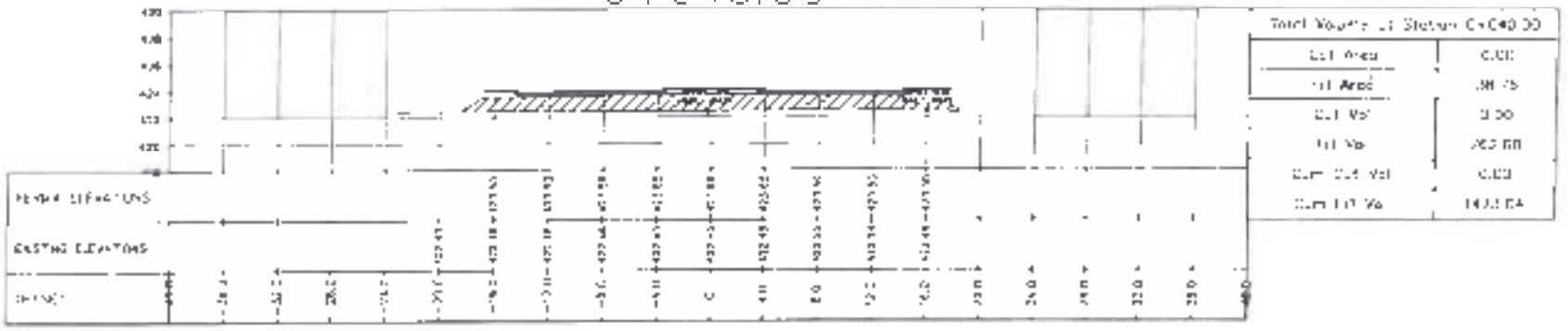
0+020.00



Total Volume at Station 0+020.00	
Cut Area	0.00
Fill Area	27.52
Cut Vol	0.00
Fill Vol	270.44
Cum Cut Vol	0.00
Cum Fill Vol	270.44

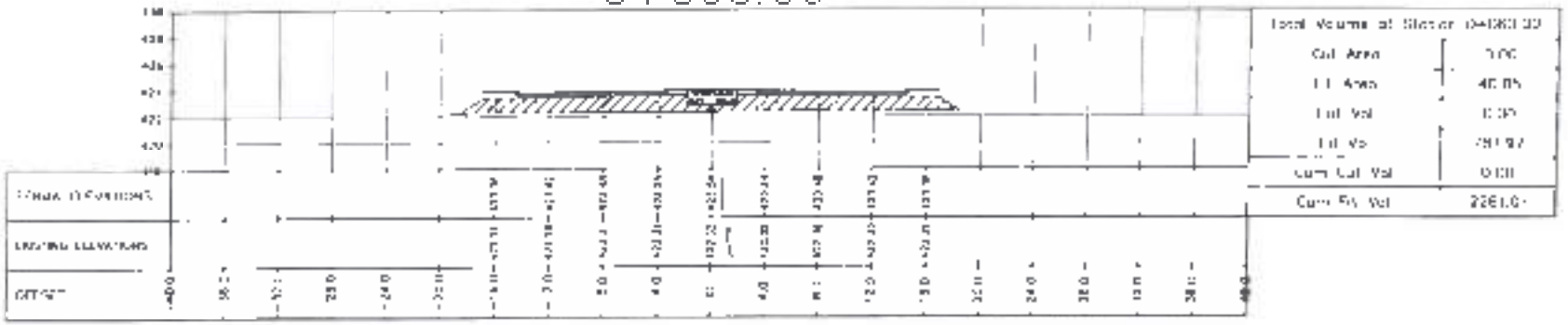
الشركة الوطنية
للطرق والجسور والمرافق العامة

0+040.00



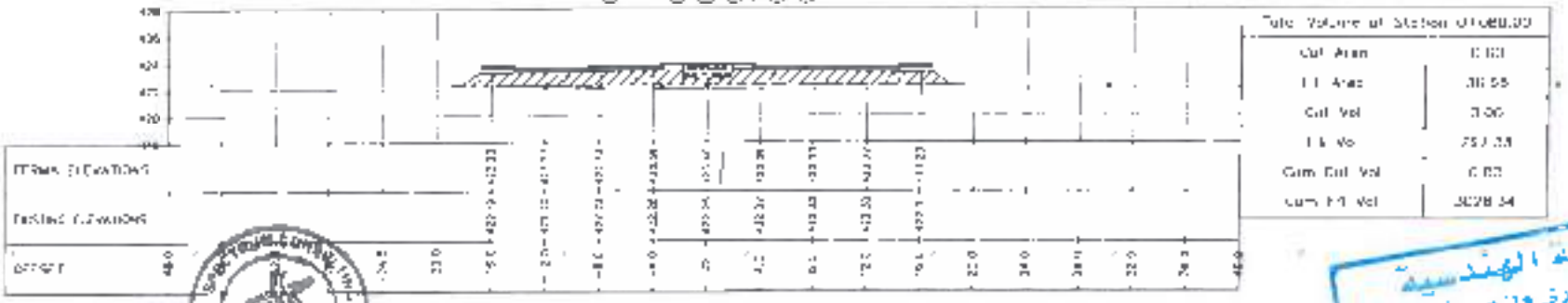
Total Volume at Station 0+040.00	
Cut Area	0.00
Fill Area	38.75
Cut Vol	0.00
Fill Vol	263.88
Cum Cut Vol	0.00
Cum Fill Vol	1430.84

0+060.00



Total Volume at Station 0+060.00	
Cut Area	0.00
Fill Area	40.85
Cut Vol	0.00
Fill Vol	781.97
Cum Cut Vol	0.00
Cum Fill Vol	2261.81

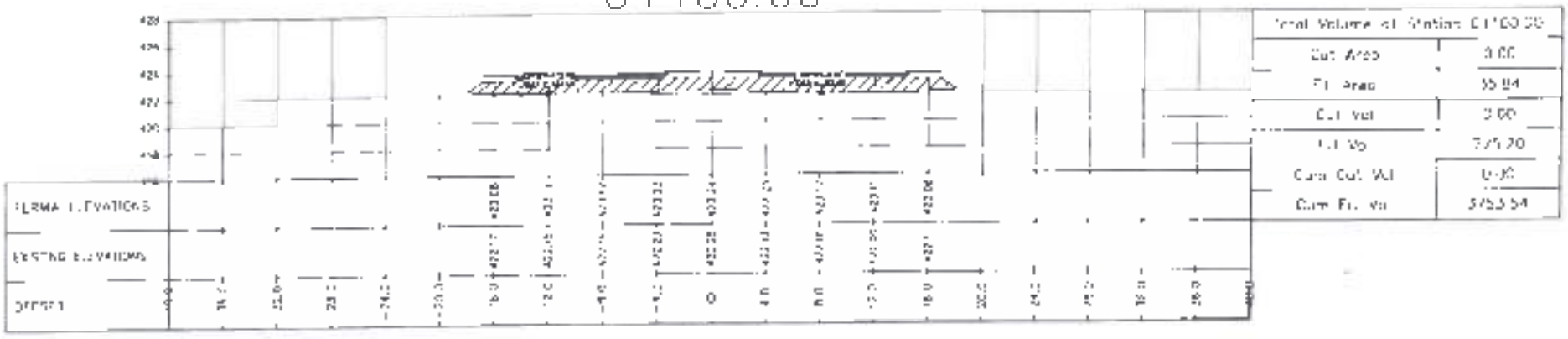
0+080.00



Total Volume at Station 0+080.00	
Cut Area	0.00
Fill Area	38.55
Cut Vol	0.00
Fill Vol	793.38
Cum Cut Vol	0.00
Cum Fill Vol	3078.54

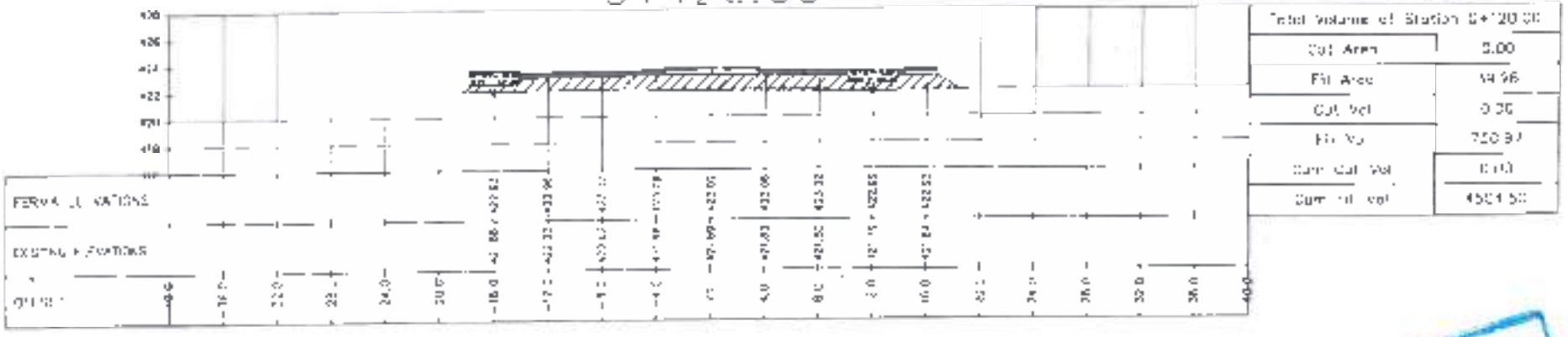
الشركة الهندسية
لطرق وجسور وتصريف المياه
ت ص / ٦٤٨ / ٥٧٤
١٠٧٦٥

0+100.00



Total Volume at Station 0+100.00	
Cut Area	0.00
Fill Area	55.84
Cut Vol	0.00
Fill Vol	279.20
Cum Cut Vol	0.00
Cum Fill Vol	5753.54

0+120.00



Total Volume at Station 0+120.00	
Cut Area	0.00
Fill Area	34.96
Cut Vol	0.00
Fill Vol	250.97
Cum Cut Vol	0.00
Cum Fill Vol	4504.50

SPECTRUM CONSULTING
الشركة الهندسية للمساحة والكبارت والتصوير الجوي
ص.ب : ٥٧٧ / ٦٢٨
٥٧١ / ٦٢٨
١-٧٦٥

UNIVERSAL INSPECTION REQUEST

RECEIPT of NOTIFICATION - Minimum Notice Period not less than 24 Hours
The Work described below will be complete and ready for inspection at planned time shown

Contractor Company			Designer Company	Spectrum	
Issued by Contractor	Name	Sign	Date	Time	
	Mohamed Sayed		10-12-2022		
Contractor UIR Reference	10				
Received by FR	Abdellatif Attia	AATT	UIR	C1 C2 C3 CD MV YY HH MM	

CODE-1 S1 to S21 Station Reference	CODE-1 D1 to D3 Depot Reference	CODE-1 Kp XXX For Kilometer point only	CODE-2 Work Activity	CODE-3 Sub Element of Activity

EXPLANATION OF WORK TO BE INSPECTED

Area	Element	Item
ROAD 06 (0+000 TO 0+400)	FROM ST 0+100 TO 0+175	Layer Level (-0.75)

Inspection Description :
(Left Side)

INSPECTION DETAILS The Following will be ready at the Planned Inspection Time

Planned Inspection Date	Planned Inspection Time

COMPLIANCE EVIDENCE Must be included as appropriate

Checklist Attached ☐	Test Results Attached ☐	Calibration Attached ☐	Other as indicated ☐
Drawing Reference	ITP Reference	MS Reference	
Other Attachments	Surveying sheets (Master sheets +cross sections + width sheet)		
Plan profile Rev	NA	NA	

Comments by :GARB survey Consultant (XYZ)	Comments by: General Consultant (SYSTRA)
Surveying works (levels Coords-width) Are inspection and found : work may :	

INSPECTION RESULT

		Name	Sign	Date	Time	Approval Status A-AWC-R	Please Tick if Not Attend
Organisation	Contractor Engineer	Mohamed Sayed		10-12-2022		A-	
Contractor QA/QC	XYZ						
	Spectrum					A	
GARB*							
Employers Representative		Abdel-Latif Attia	AATTIA	11-12-22		A	

* Alignment; Bridges; Culvert Drw

Instructions for Use:

☐ The Contractor should continue work using their CHECKLIST of inspection items progressively

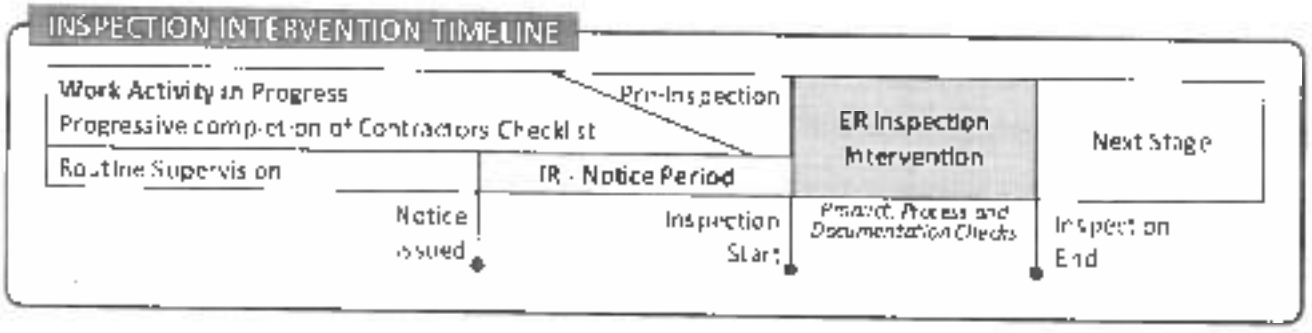
☐ The Contractor should do their own INTERNAL pre-inspection and correct any minor defects before final inspection and if necessary, advise Employer's Representative (ER) of possible delay to arrange correction. Contractor should update their CHECKLIST and their own INTERNAL Comments sheet to show the inspection is satisfactory completed.

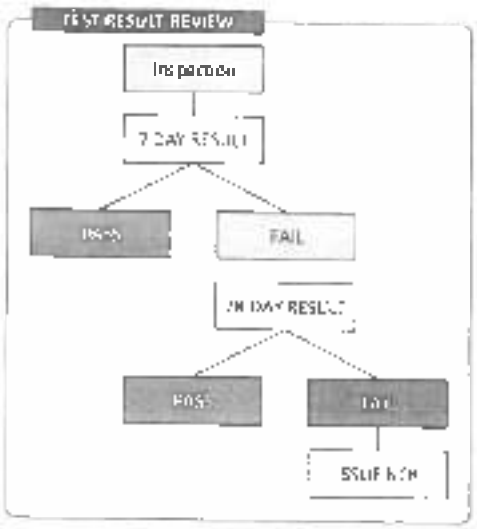
☐ The Contractor Engineer and their QA/QC team should sign the UIR Form before ER inspection. If the work is not ready, they should delay the inspection and not sign the UIR. Comments at this stage are not expected although eg minor cleaning prior to concrete pour will be allowed

☐ The ER shall attend as indicated and check the Contractors supporting Drawings, Test results, Per-inspection signed sheets and check dimensions, alignment, workmanship, etc. If satisfied ER shall sign the UIR Code A – Approved, or shall add relevant comments and add AWC = Approved with Comments and the next stage may progress when the comments have been resolved, or shall add R = Rejected as the work is not satisfactory and must be corrected and reinspected

AWC or R will require a new UIR Form to be issued and the inspection process will re-start at a new date/time

☐ When Approved without comments, the next stage of work may progress





Inspection COMMENTS must be factual

Delayed test results may apply to every discipline at an inspection When available, may require inspection records to be reviewed for previous work

It is known that tests results taken during inspection will be available at some date in the future (eg 7 and 28 Days).

The purpose of the UIR is to verify the work stage is ready to progress now. If the Work is ready to progress at the Inspection, then it must be Approved and allowed to progress without comment. This is to avoid returning to old AWC records and revise to A.

Review of Test Results is just another stage of the work activity, and result reviews have their own lifecycle. The test results shall be assessed when available, and if they fail to meet the necessary compliance requirements, an **NCR shall be issued** to track the correction process.

وزارة النقل

المجلس التنسيقي للسعودية

مشروع انشاء القطار السريع

قطاع (طريق 10) من المحطة 0+000 إلى المحطة 0+400

Inspection Request

التاريخ	2023/ .

10

تسليم طبقة (-0.75) من محطة (0+100) على محطة (0+175) (Left)

مدير المشروع	

Left

	بدء التقديم مع عدم استكمال المستندات (نعم/لا)	مرفوض (ID)
	☐	☐

	مقاول الباطن (المقاول الرئيسي)	استشاري هيئة الطرق و المطارات (المقاول الرئيسي)
الاسم:	المهندس/ عبد القادر الموصلي	
التوقيع:		
التاريخ:	10/12/2023	

المهندس/ محمد حسين الله

SPECTRUM

Station	Easting	Northing
0+000.00	682387.579	798305.0463
0+025.00	682412.3249	798308.6021
0+050.00	682437.0707	798312.1579
0+075.00	682461.8165	798315.7138
0+100.00	682486.5624	798319.2696
0+125.00	682511.3082	798322.8254
0+150.00	682536.054	798326.3813
0+175.00	682560.7998	798329.9371
0+200.00	682585.5457	798333.4929
0+225.00	682610.2915	798337.0487
0+250.00	682635.0373	798340.6046
0+275.00	682659.7832	798344.1604
0+300.00	682684.529	798347 7162
0+325.00	682709.2748	798351.2721
0+350.00	682734.0206	798354.8279
0+375.00	682758.7665	798358.3837
0+400.00	682783.5123	798361 9396

الهيئة العامة
للطرق و الكباري و النقل البري
(GARBLT)

وزارة النقل

MASTER SHEET FOR RD-06 (ZONE 0+000 TO 0+400)

FILL

STATION		0+000	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160	0+180	0+200	0+220	0+240	0+260	0+280	0+300	0+320	0+340	0+360	0+380	0+400
FERMA LEVEL		424.01	423.82	423.63	423.43	423.24	423.05	422.85	422.66	422.47	422.28	422.08	421.89	421.70	421.50	421.31	421 12	420.92	420.73	420.54	420.34	420.15
Replacement LEVEL		423.01	422.82	422.63	422.43	422.24	422.05	421 85	422.66	421.54	421 74	421.62	421.09	420.89	420.68	420.66	420.50	420.32	420.20	420.08	420.00	419.70
Difference		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1 00	0.93	0.53	0.46	0.80	0.81	0.62	0.65	0.62	0.60	0.53	0 46	0.34	0.45
	0	424.012	423.819	423.626	423.433	423.24	423.047	422.854	422 661	422.468	422.275	422.082	421.889	421.696	421 503	421.31	421.117	420 924	420.731	420.538	420.345	420.152
	0.25	423 762	423 569	423.376	423.183	422.99	422.797	422.604	422.411	422.218	422.025	421.832	421.639	421.446	421.253	421.06	420.867	420.674	420 481	420.288	420 095	419.902
	0.5	423.512	423 319	423.126	422 933	422.74	422 547	422.354	422.161	421.968	421.775		421 389	421.196	421.003	420.81	420.617	420.424	420.231			
	0.75	423.262	423 069	422.876	422.683	422.49	422.297	422.104	421.911	421.718			421.139	420.946	420.753							
	1	423.012	422.819	422.626	422.433	422.24	422.047	421 854	421.661													

الشركة العامة
للطرق و الكباري و النقل البري
(GAROLT)

قطاع الشركة الهندسية للطرق والكباري والصرف الصحي

طبقة : -0.75

ST	Left									C.L	Right								
	SIDE WALK		ROAD					SIDE WALK			SIDE WALK		ROAD					SIDE WALK	
	18.45	16.0	14.30	13.0	10.0	7.0	4.0	3.5	2.0		2.0	3.5	4.0	7.0	10.0	13.0	14.30	16.0	18.45
0+000	423.10	423.10	423.10	423.12	423.16	423.21	423.25	423.26	423.26	423.26	423.26	423.26	423.25	423.21	423.16	423.12	423.10	423.10	423.10
0+025	422.91	422.91	422.91	422.91	422.97	423.02	423.06	423.07	423.07	423.07	423.07	423.07	423.06	423.02	422.97	422.93	422.91	422.91	422.91
0+050	422.72	422.72	422.72	422.72	422.78	422.84	422.87	422.88	422.88	422.88	422.88	422.88	422.87	422.83	422.78	422.73	422.72	422.72	422.72
0+075	422.52	422.52	422.52	422.57	422.59	422.64	422.68	422.68	422.68	422.68	422.68	422.68	422.68	422.63	422.59	422.54	422.52	422.52	422.52
0+100	422.33	422.33	422.33	422.39	422.39	422.44	422.48	422.49	422.49	422.49	422.49	422.49	422.48	422.44	422.39	422.35	422.33	422.33	422.33
0+125	422.14	422.14	422.14	422.16	422.20	422.25	422.29	422.30	422.30	422.30	422.30	422.30	422.29	422.25	422.20	422.16	422.14	422.14	422.16
0+150	421.95	421.95	421.95	421.96	422.01	422.05	422.10	422.11	422.11	422.11	422.11	422.11	422.10	422.05	422.01	421.96	421.95	421.95	421.95
0+175	421.75	421.75	421.75	421.77	421.82	421.85	421.91	421.92	421.92	421.92	421.92	421.92	421.91	421.86	421.82	421.77	421.75	421.75	421.75
0+200	421.56	421.56	421.56	421.58	421.62	421.67	421.71	421.72	421.72	421.72	421.72	421.72	421.71	421.67	421.62	421.58	421.56	421.56	421.56
0+225	421.37	421.37	421.37	421.39	421.43	421.48	421.52	421.53	421.53	421.53	421.53	421.53	421.52	421.48	421.43	421.39	421.37	421.37	421.37
0+250	421.18	421.18	421.18	421.19	421.24	421.28	421.33	421.34	421.34	421.34	421.34	421.34	421.33	421.28	421.24	421.19	421.18	421.18	421.18
0+275	420.98	420.98	420.98	421.00	421.05	421.09	421.14	421.15	421.15	421.15	421.15	421.15	421.14	421.09	421.05	421.00	420.98	420.98	420.98
0+300	420.79	420.79	420.79	420.81	420.85	420.90	420.94	420.95	420.95	420.95	420.95	420.95	420.94	420.90	420.85	420.81	420.79	420.79	420.79
0+325	420.59	420.59	420.59	420.62	420.66	420.71	420.75	420.76	420.76	420.76	420.76	420.76	420.75	420.71	420.66	420.62	420.59	420.59	420.59
0+350	420.40	420.40	420.40	420.42	420.47	420.52	420.56	420.57	420.57	420.57	420.57	420.57	420.56	420.52	420.47	420.42	420.40	420.40	420.40
0+375	420.21	420.21	420.21	420.23	420.28	420.32	420.37	420.38	420.38	420.38	420.38	420.38	420.37	420.32	420.28	420.23	420.21	420.21	420.21
0+400	420.02	420.02	420.02	420.04	420.08	420.13	420.17	420.18	420.18	420.18	420.18	420.18	420.17	420.13	420.08	420.04	420.02	420.02	420.02

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E
3 ABD EL-KAWY AHMED St , MOHANDESEEN - GIZA
Tel. : 3448413 - Fax : 3031719

Project: Electric Express Train.15 May Sector

Client : الشركة الهندسية

File No.: 4800/S

Date 11/12/2022

Density of Soil In-Place By Sand-Cone Method (ASTM D-1556)

Date of testing	*10-12-22*
Location	*000+100 to 000+175*
Description Of Tested Material	*Stone , Gravel & Sand.*
Condition of the test	*Tested as found in the existing moisture content.*

Station	*Level (m)*	*Bulk Density (gm/cm3)*	*Moisture Content (%)*	*Insitu Dry Density (gm/cm3)*	*Max Dry Density (gm/cm3)*	*Relative Compaction (%)*
000+150	*-0.75*	*2.127*	*6.3*	*2.002*	*2.040*	*98.1*

Notes:

1- Test location were chosen and identified by the consultant.

2-Maximum Dry Density value was provided by client.

ARDAMAN Split
Egypt Express Train
Project

Prepared by : Eng. Rody Yehia

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E

3 ABD EL KAWY AHMED St. , MOHANDESEEN - GIZA
Tel. : 33448413 - Fax. : 33031719

Project: Electric Express Train - 15May Sector *File No.: 4880/8*

Client: شركة الهندسية *Date: 06/12/2022*

PARTICLE SIZE ANALYSIS OF SOILS AND MATERIALS FINER THAN # 200 Sieve ASTM D - 422

Sample delivery date: 05/12/2022
Sample Identification No. : Sample No. 932
Source of sample: St Stock Pile Road 6
Level (m) : –
Classification According to AASHTO: A-1-b
Percentage of materials finer than # 200: 16.1%

Sieve No.	Opening (mm)	Percentage Passing %	
3 in.	75	100.0	
2.5 in.	63.5	100.0	
2 in.	50	100.0	
1.5 in.	38	100.0	
1 in.	25	99.7	
3/4 in.	19	97.9	
1/2 in.	12.5	94.1	
3/8 in.	9.5	90.8	
No. 4	4.75	78.8	
No. 10	2.0	65.3	
No. 40	0.425	40.7	
No. 200	0.075	16.1	

Notes:-

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rody Yehia

ARDAMAN Split
Egypt Express Train Project

Reviewed by : Eng.Osama Mofiah

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E

3 ABD EL KAWY AHMED St , MOHANDESEEN - GIZA
Tel. : 37448413 - Fax . 33031719

Project: Electric Express Train - 15May Sector *File No.: 4898/S*

Client: شركة الهندسية *Date: 06/12/2022*

LIQUID LIMIT , PLASTIC LIMIT , AND PLASTICITY INDEX OF SOILS ACCORDING TO ASTM D4318

Sample delivery date: 05/12/2022

Sample Identification No. : Sample No. 932

Source of sample: St Stock File Road 6

Level (m) : _

Sample Identification No.	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)
Sample No. 932	25.1	19.2	5.9

- Notes:

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rody Vehis

ARDAMAN Split
Egypt Express Train Project

Reviewed by : Eng.Osama Moftah

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E

3 ABD EL-KAWY AHMED ST., MOHANDESEEN - GIZA
TEL.: 33448413 - FAX.: 33031719

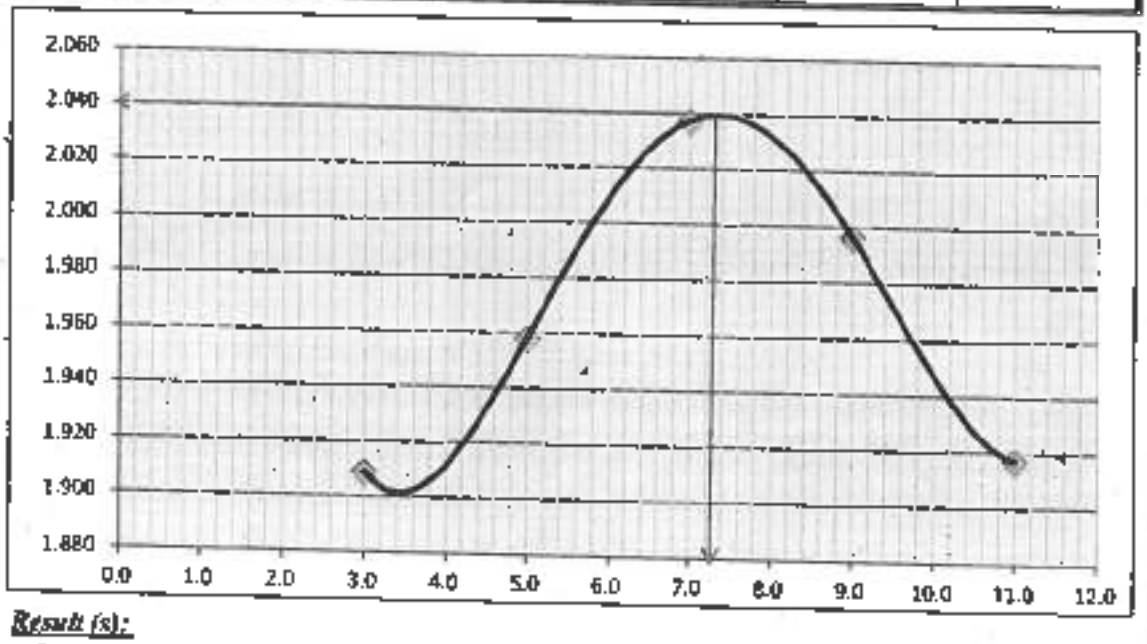
Project: Electric Express Train - 15May Sector — *File No.: 4860/S*

Client: شركة الهندسية — *Date: 06/12/2022*

MOISTURE DENSITY RELATIONSHIP OF SOIL ACCORDING TO ASTM D 1557

Sample delivery date: 05/12/2022
Sample Identification No. : Sample No. 932
Source of sample: St Stock Pile Road 6
Level (m) : –

Wet Unit Weight, gm/cm³	1.966	2.056	2.180	2.176	2.128
Water Content, %	3.0	5.0	7.0	9.0	11.0
Dry Unit Weight, gm/cm³	1.909	1.958	2.037	1.996	1.917



Result (s):

1- *Maximum dry density* = 2.040 t/m³
2- *Optimum moisture content* = 7.30 %

Note (s):

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rady Yehia

ARDAMAN Split
Egypt Express Train Project

Reviewed by : Eng. Osama Mostafa

ARDAMAN *Split*

MATERIALS AND CONSTTRUCTION TESTING, SAE

3 ABD EL-KAWY AHMED St., MOHANDEESEEN - GIZA (Tel. : 33448413 - Mobile : 01006030248)

Project: Electric Express Train - 15 May Sector	**File No.**	**4800/S**
	Date	**06/12/2022**

CHEMICAL ANALYSIS REPORT

Letter Ref. No.	ARD-CH	50	Testing Date :6/12/2022

Type *of* Tested Material	SOIL (Ref.: AASHTO T-267)
Delivery Date	05/12/2022

Sample Code No.	Source	Level	Station	Organic Matter Content, %
932	شركة الهندسية	Stockpile	Road-6	0.562

Criteria *of* Acceptance	1.0%

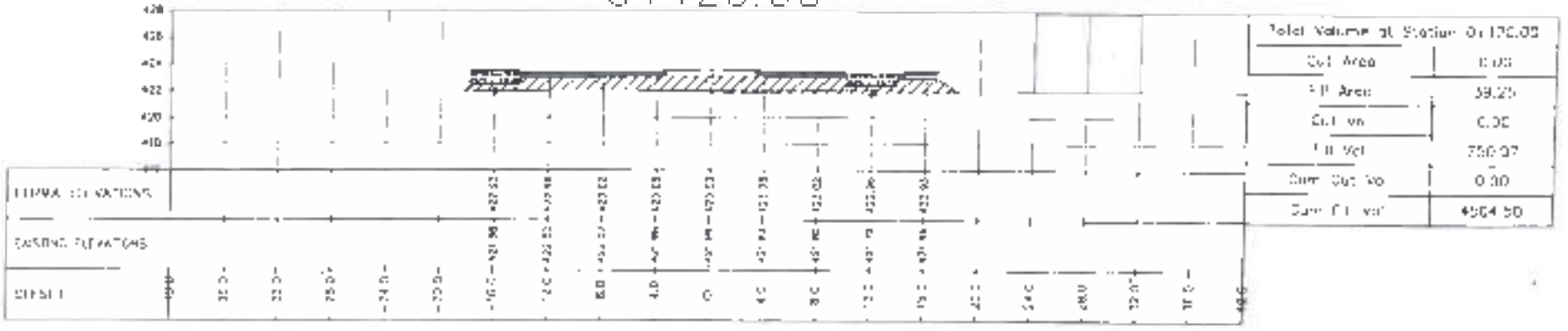
Note :	*The Samples were found Complying with the Project Specs.*

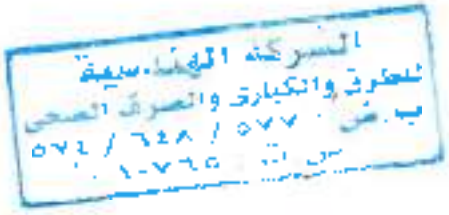
Prepared By: Chem/ Mina Ayman

ARDAMAN Split
Egypt Express Train
Project

0+100.00

0+120.00





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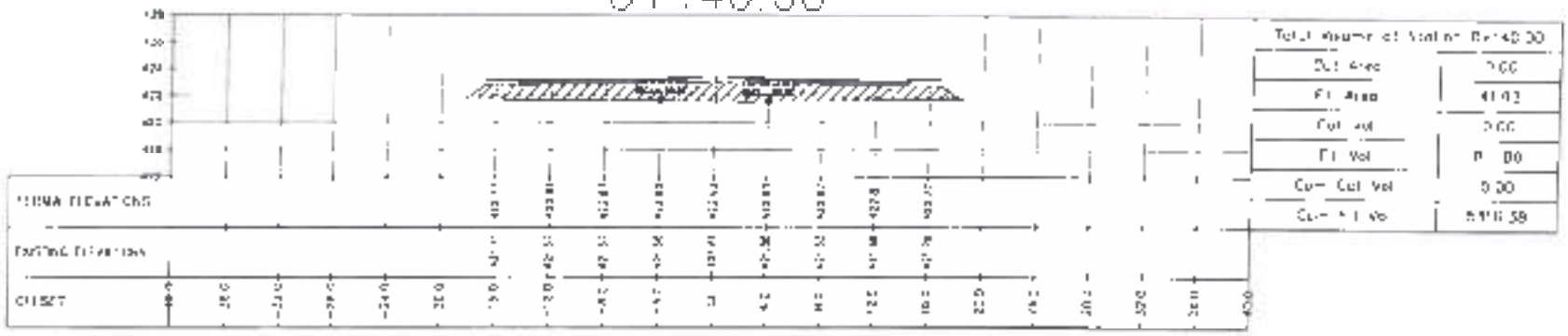

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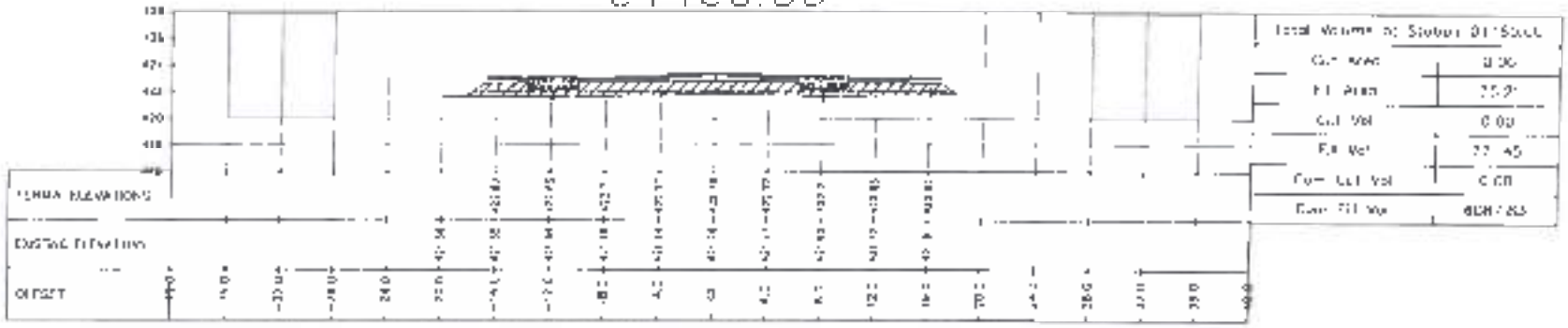

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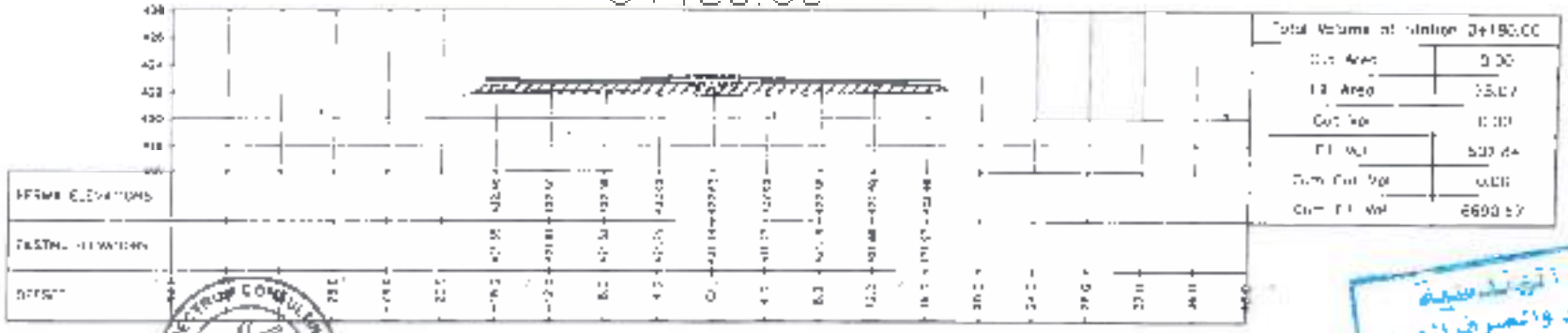


UNIVERSAL INSPECTION REQUEST

RECEIPT of NOTIFICATION - Minimum Notice Period not less than 24 Hours

The Work described below will be complete and ready for inspection at planned time shown

Contractor Company		Designer Company	Spectrum
Issued by Contractor	Name Mohamed Sayed Sign	Date 04-12-2022	Time
Contractor UIR Reference	11		

Received by ER Abdel-Latif Attia (AATTIA) UIR

C1	C2	C3	DD	MM	YY	HH	MM

CODE 1 S1 to S26 Station Reference	CODE-2 D1 to S1 Depot Reference	CODE-1 Km XXX For Kilometer point only	CODE-2 Work Activity	CODE-3 Sub Element of Activity

EXPLANATION OF WORK TO BE INSPECTED

Area	Element	Item
ROAD-06 (0+000 TO 0+400)	FROM ST (0+000 TO (0+100	Layer Level (-0.50)

Inspection Description : (LEFT Side)

INSPECTION DETAILS The Following will be ready at the Planned Inspection Time

Planned Inspection Date	Planned Inspection Time

COMPLIANCE EVIDENCE Must be included as appropriate

Checklist Attached ☐	Test Results Attached ☐	Calibration Attached ☐	Other as indicated ☐
Drawing Reference	ITP Reference		MS Reference
Other Attachments	Surveying sheets (Master sheets + cross sections + width sheet)		
Plan profile Rev	NA		NA

Comments by : GARB survey Consultant (XYZ)	Comments by: General Consultant (SYSTRA)
Surveying works (levels-Coords-width) Are inspection and found : work may	

INSPECTION RESULT

	Name	Sign	Date	Time	Approval Status A AWC R	Please Tick If Not Attend
Organisation						
Contractor Engineer	Mohamed Sayed		04-12-2022		A	
Contractor QA/QC XYZ / Spectrum					A	
GARB*						
Employers Representative	Abdel-Latif Attia	(AATTIA)	11-12-22		A	

* Alignment: Bridge & Cover: Only

Instructions for Use:

☐ The Contractor should continue work using their CHECKLIST of inspection items progressively

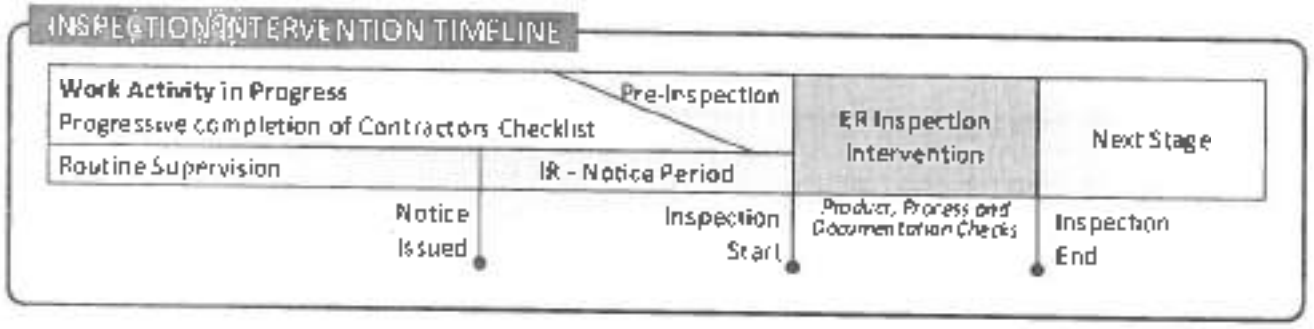
☐ The Contractor should do their own INTERNAL pre-inspection and correct any minor defects before final inspection and if necessary, advise Employer's Representative (ER) of possible delay to arrange correction. Contractor should update their CHECKLIST and their own INTERNAL Comments sheet to show the inspection is satisfactory completed.

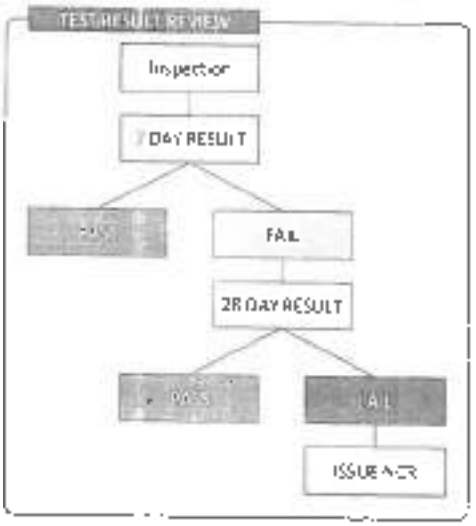
☐ The Contractor Engineer and their QA/QC team should sign the UIR Form before ER inspection. If the work is not ready, they should delay the inspection and not sign the UIR. Comments at this stage are not expected although eg: minor cleaning prior to concrete pour will be allowed

☐ The ER shall attend as indicated and check the Contractors supporting Drawings, Test results, Per-inspection signed sheets and check dimensions, alignment, workmanship, etc. If satisfied ER shall sign the UIR Code A = Approved, or shall add relevant comments and add AWC = Approved with Comments and the next stage may progress when the comments have been resolved, or shall add R = Rejected as the work is not satisfactory and must be corrected and reinspected

AWC or R will require a new UIR Form to be issued and the inspection process will re-start at a new date/time

☐ When Approved without comments, the next stage of work may progress





Inspection COMMENTS must be factual

Delayed test results may apply to every discipline at an inspection. When available, may require Inspection records to be reviewed for previous work.

It is known that tests results taken during inspection will be available at some date in the future (eg 7 and 28 Days).

The purpose of the UIR is to verify the work stage is ready to progress now. If the Work is ready to progress at the Inspection, then it must be Approved and allowed to progress without comment. This is to avoid returning to old AWC records and revise to A.

Review of Test Results is just another stage of the work activity, and result reviews have their own lifecycle. The test results shall be assessed when available, and if they fail to meet the necessary compliance requirements, an **NCR** shall be issued to track the correction process.

وزارة النقل

مشروع انشاء القطار السريع

القطاع (طريق [illegible]) من المحطة 0+000 إلى المحطة 0+400

Inspection Request

التاريخ	2022 / /

11

تسليم طبقة (0.50 م) من محطة (0+000) الى محطة (0+100) (LEFT)

الى	مدير المشروع

1 of 5

مرفوض (R)	يقبل التفتيش تحت ملاحظات وعدم تنفيذ (C)	يقبل (A)
☐	☐	☐

استشارية الطرق والجسور (المشرف المقيم):	المقاول المنفذ (اسم الشركة):
الاسم:	الاسم: [illegible]
التوقيع:	التوقيع:
التاريخ:	التاريخ: 11/12/2022

[illegible]

SPECTRUM

Station	Easting	Northing
0+000.00	682387.579	798305.0463
0+025.00	682412.3249	798308.6021
0+050.00	682437.0707	798312.1579
0+075.00	682461.8165	798315.7138
0+100.00	682486.5624	798319.2696
0+125.00	682511.3082	798322.8254
0+150.00	682536.054	798326.3813
0+175.00	682560.7998	798329.9371
0+200.00	682585.5457	798333.4929
0+225.00	682610.2915	798337.0487
0+250.00	682635.0373	798340.6046
0+275.00	682659.7832	798344.1604
0+300.00	682684.529	798347.7162
0+325.00	682709.2748	798351.2721
0+350.00	682734.0206	798354.8279
0+375.00	682758.7665	798358.3837
0+400.00	682783.5123	798361.9396

الهيئة العامة
للطرق و الكباري و النقل البري
(GARBLT)

وزارة النقل

MASTER SHEET FOR RD-06 (ZONE 0+000 TO 0+400)

FILL

STATION		0+000	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160	0+180	0+200	0+220	0+240	0+260	0+280	0+300	0+320	0+340	0+360	0+380	0+400
FERMA LEVEL		424.01	423.82	423.63	423.43	423.24	423.05	422.85	422.66	422.47	422.28	422.08	421.89	421.70	421.50	421.31	421.12	420.92	420.73	420.54	420.34	420.15
Replacement LEVEL		423.01	422.87	422.63	422.43	422.24	422.05	421.85	421.66	421.54	421.74	421.62	421.09	420.89	420.68	420.66	420.50	420.32	420.20	420.08	420.00	419.70
Difference		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.93	0.53	0.46	0.80	0.81	0.82	0.65	0.62	0.60	0.53	0.46	0.34	0.45
	0	424.012	423.819	423.626	423.433	423.24	423.047	422.854	422.661	422.468	422.275	422.082	421.889	421.696	421.503	421.31	421.117	420.924	420.731	420.538	420.345	420.152
	0.25	423.762	423.569	423.376	423.183	422.99	422.797	422.604	422.411	422.218	422.025	421.832	421.639	421.446	421.253	421.06	420.867	420.674	420.481	420.288	420.095	419.902
	0.5	423.512	423.319	423.126	422.933	422.74	422.547	422.354	422.161	421.968	421.775		421.389	421.196	421.003	420.81	420.617	420.424	420.231			
	0.75	423.262	423.069	422.876	422.683	422.49	422.297	422.104	421.911	421.718			421.139	420.946	420.753							
	1	423.012	422.819	422.626	422.433	422.24	422.047	421.854	421.661													

قطاع الشركة الهندسية للطرق والكباري والصرف الصحي

طبقة : -0.50

ST	Left									C.L	Right								
	SIDE WALK		ROAD					SIDE WALK			SIDE WALK		ROAD					SIDE WALK	
	18.07	16.0	14.38	13.0	10.0	7.0	4.0	3.5	2.0		2.0	3.5	4.0	7.0	10.0	13.0	14.38	16.0	18.07
0+000	423.35	423.15	423.25	423.37	423.41	423.46	423.50	423.51	423.53	423.51	423.51	423.41	423.50	423.46	423.43	423.37	423.25	423.35	423.35
0+025	423.16	423.16	423.16	423.28	423.32	423.37	423.31	423.32	423.32	423.32	423.37	423.32	423.32	423.37	423.37	423.18	423.16	423.16	423.16
0+050	422.97	422.97	422.97	422.98	423.03	423.07	423.12	423.13	423.13	423.13	423.13	423.13	423.12	423.07	423.03	422.98	422.97	422.97	422.97
0+075	422.77	422.77	422.77	422.79	422.84	422.88	422.93	422.91	422.91	422.93	422.91	422.91	422.93	422.88	422.84	422.79	422.77	422.77	422.77
0+100	422.58	422.58	422.58	422.60	422.64	422.69	422.73	422.74	422.76	422.74	422.74	422.73	422.73	422.69	422.64	422.60	422.58	422.58	422.58
0+125	422.39	422.39	422.39	422.41	422.45	422.50	422.54	422.55	422.55	422.55	422.55	422.55	422.54	422.50	422.45	422.41	422.39	422.39	422.39
0+150	422.20	422.20	422.20	422.23	422.26	422.30	422.35	422.36	422.36	422.36	422.36	422.36	422.35	422.30	422.28	422.23	422.20	422.20	422.20
0+175	422.00	422.00	422.00	422.02	422.07	422.11	422.16	422.17	422.17	422.17	422.17	422.17	422.16	422.13	422.07	422.02	422.00	422.00	422.00
0+2	421.81	421.81	421.82	421.84	421.87	421.92	421.96	421.97	421.97	421.97	421.97	421.97	421.96	421.92	421.87	421.84	421.81	421.81	421.81
	421.62	421.62	421.62	421.64	421.68	421.73	421.77	421.78			421.78	421.78	421.77	421.73	421.68	421.64	421.62	421.62	421.62
							421.41			421.43	421.43		421.42			421.40	421.40	421.40	421.40
																		420.99	420.99
	2		420.37				420.42	420.43	420.43	420.43		420.43	420.42	420.38	420.33	420.29	420.27	420.27	420.27

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E
3 ABD EL-KAWY AHMED St., MOHANDESEEN - GIZA
Tel. : 3448413 - Fax. : 3031719

Project: Electric Express Train.15 May Sector — *File No.: 4800/S*

Client : الشركة الهندسية — *Date 11/12/2022*

Density of Soil In-Place By Sand-Cone Method (ASTM D-1556)

Date of testing	*10-12-22*
Location	*000+000 to 000+100*
Description Of Tested Material	*Stone , Gravel & Sand.*
Condition of the test	*Tested as found in the existing moisture content*

Station	*Level (m)*	*Bulk Density (gm/cm3)*	*Moisture Content (%)*	*Insitu Dry Density (gm/cm3)*	*Max Dry Density (gm/cm3)*	*Relative Compaction (%)*
000+050	*-0.50*	*2.141*	*6.3*	*2.015*	*2.040*	*98.8*

Notes:

1- Test location were chosen and identified by the consultant.

2-Maximum Dry Density value was provided by client.

ARDAMAN Split
Egypt Express Train
Project

Prepared by : Eng. Rody Yehia

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.AE

3 ABD El. KAWY AHMED St. , MOHANDESEEN - GIZA
Tel. : 33448413 - Fax. : 33031719

Project: Electric Express Train - 15May Sector *File No.: 4898/S*

Client: شركة المقاولون العرب *Date: 06/12/2022*

PARTICLE SIZE ANALYSIS OF SOILS AND MATERIALS FINER THAN # 200 Sieve ASTM D - 422

Sample delivery date: 05/12/2022
Sample Identification No. : Sample No. 932
Source of sample: St Stock Pile Road 6
Level (m) : -
Classification According to AASHTO: A-1-b
Percentage of materials finer than # 200: 16.1%

Sieve No.	Opening (mm)	Percentage Passing %	
3 in.	75	100.0	
2.5 in.	63.5	100.0	
2 in.	50	100.0	
1.5 in.	38	100.0	
1 in.	25	99.7	
3/4 in.	19	97.9	
1/2 in.	12.5	94.1	
3/8 in.	9.5	90.8	
No. 4	4.75	78.8	
No. 10	2.0	65.3	
No. 40	0.425	49.7	
No. 200	0.075	16.1	

Notes:-

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rody Yehia

ARDAMAN Split
Egypt Express Train Project

Reviewed by : Eng.Osama Mofiah

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E

3 ABD EL KAWY AHMED St. , MOHANDESEEN - GIZA
Tel. : 33448413 - Fax. : 33031719

Project: Electric Express Train - 15May Sector ***File No.: 4800/S***

Client: شركة الهندسية ***Date: 06/12/2022***

LIQUID LIMIT , PLASTIC LIMIT , AND PLASTICITY INDEX OF SOILS ACCORDING TO ASTM D4318

Sample delivery date: 05/12/2022

Sample Identification No. : Sample No. 932

Source of sample: St Stock Pile Road 6

Level (m) : -

Sample Identification No.	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)
Sample No. 932	25.1	19.2	5.9

- Notes:

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rody Yehia

ARDAMAN Split
Egypt Express Train Project

Reviewed by : Eng.Osama Moftah

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E

3 ABD EL-KAWY AHMED ST., MOHANDESEEN - GIZA
TEL.: 33448413 - FAX.: 33031719

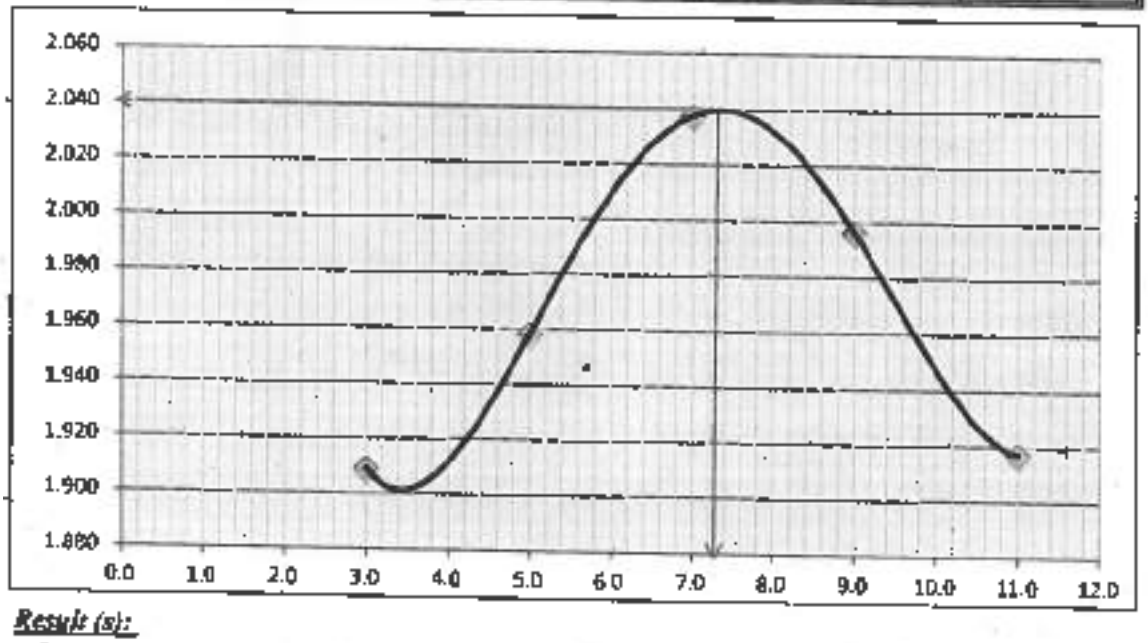
Project: Electric Express Train - 15May Sector — *File No.: 4800/S*

Client: شركة الهندسية — *Date: 06/12/2022*

MOISTURE DENSITY RELATIONSHIP OF SOIL ACCORDING TO ASTM D 1557

Sample delivery date: 05/12/2022
Sample Identification No. : Sample No. 932
Source of sample: St Stock Pile Road 6
Level (m) : –

Wet Unit Weight, gm/cm³	1.966	2.056	2.180	2.176	2.128
Water Content, %	3.0	5.0	7.0	9.0	11.0
Dry Unit Weight, gm/cm³	1.909	1.958	2.037	1.996	1.917



Result (s):

1- Maximum dry density = 2.040 t/m³
2- Optimum moisture content = 7.30 %

Note (s):

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rady Yehia

ARDAMAN Split
Egypt Express Train Project

Reviewed by : Eng. Ossama Mofiak

ARDAMAN *Split*

MATERIALS AND CONSTTRUCTION TESTING, SAE

3 ABD EL-KAWY AHMED St., MOHANDEESEEN - GIZA (Tel. : 33468413 - Mobile : 01006030248)

Project: Electric Express Train - 15 May Sector	File No.	4800/S
	Date	06/12/2022

CHEMICAL ANALYSIS REPORT

Letter Ref. No.	ARD-CH	50	Testing Date :6/12/2022

Type *of* Tested Material	SOIL (Ref.: AASHTO T-267)
Delivery Date	05/12/2022

Sample Code No.	Source	Level	Station	Organic Matter Content, %
932	شركة الهندسية	Stockpile	Road-6	0.562

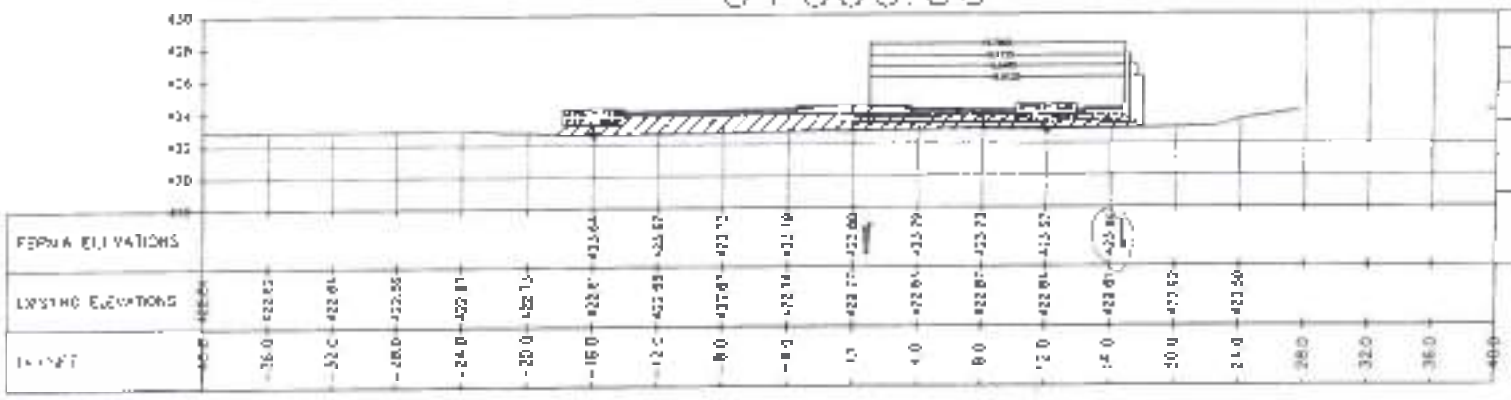
Criteria *of* Acceptance	1.0%

Note :	*The Samples were found Complying with the Project Specs.*

Prepared By: Chem/ Mina Ayman

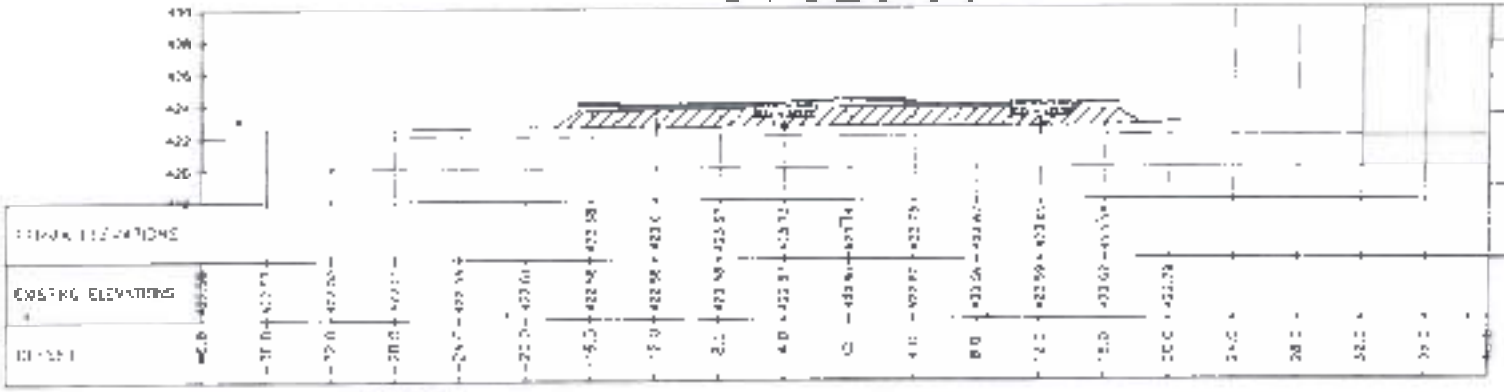
ARDAMAN Split
Egypt Express Train
Project

0+000.00



Total Volume at Station 0+ 000.00	
Cut Area	0.00
Fill Area	[illegible]
Cut Vol	0.00
Fill Vol	0.00
Cum Cut Vol	0.00
Cum Fill Vol	0.00

0+020.00

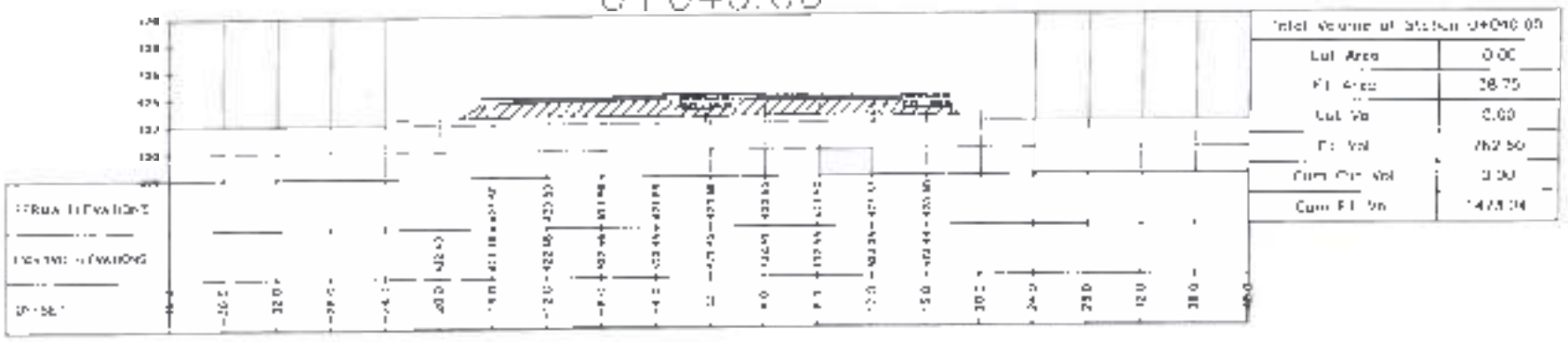


Total Volume at Station 0+020.00	
Cut Area	0.00
Fill Area	27.52
Cut Vol	0.00
Fill Vol	270.44
Cum Cut Vol	0.00
Cum Fill Vol	270.44

SPECTRUM CONSULTING

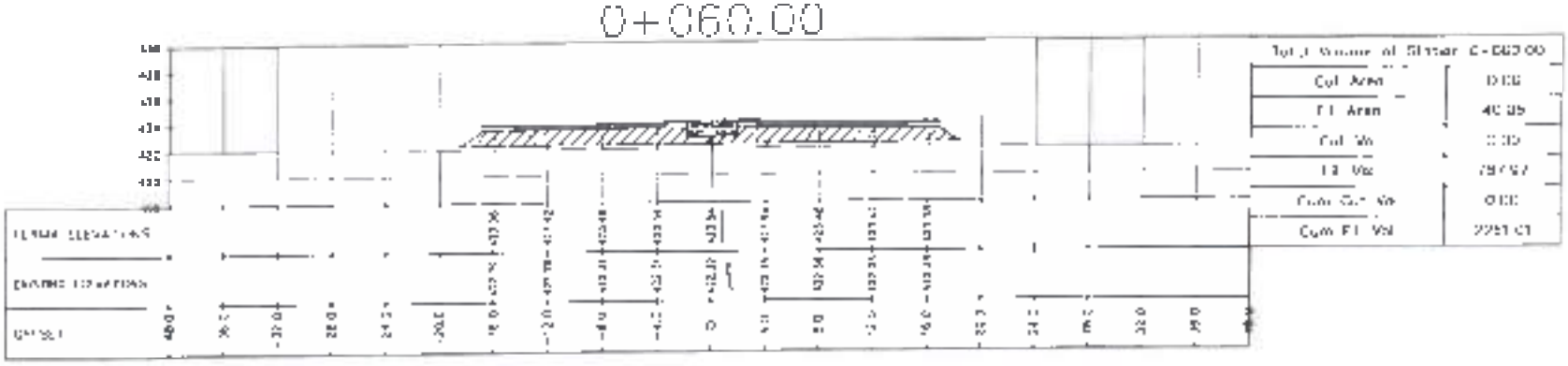
الشركة الهندسية
للطرق والجسور والتصريف الصحي
ب. ص : ٥٧٧ / ٦٤٨ / ٥٧٤
١٠٧٦٠

0+040.00



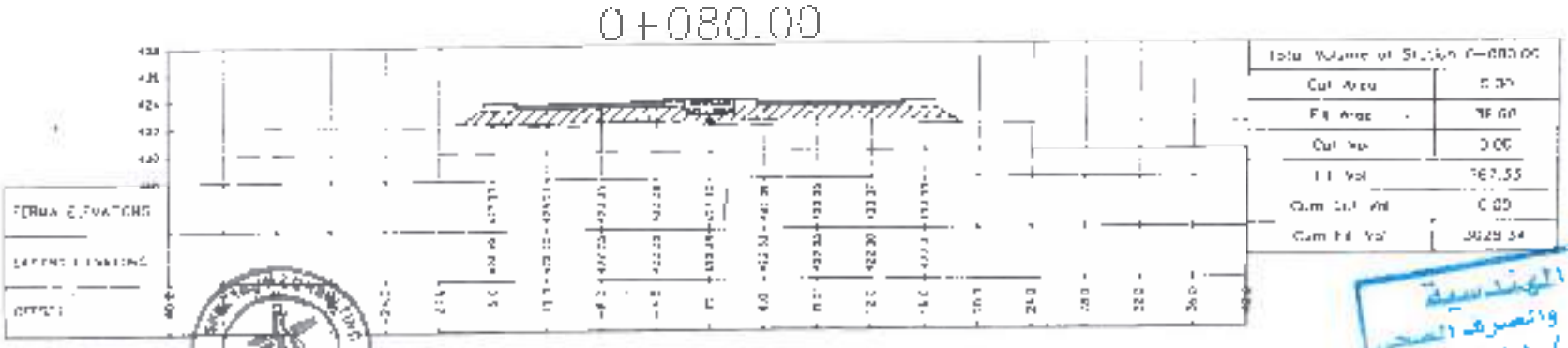
Total Volume at Station 0+040.00	
Cut Area	0.00
Fill Area	38.75
Cut Vol	0.00
Fill Vol	762.50
Cum Cut Vol	0.00
Cum Fill Vol	1473.04

0+060.00



Total Volume at Station 0+060.00	
Cut Area	0.00
Fill Area	40.35
Cut Vol	0.00
Fill Vol	787.67
Cum Cut Vol	0.00
Cum Fill Vol	2260.71

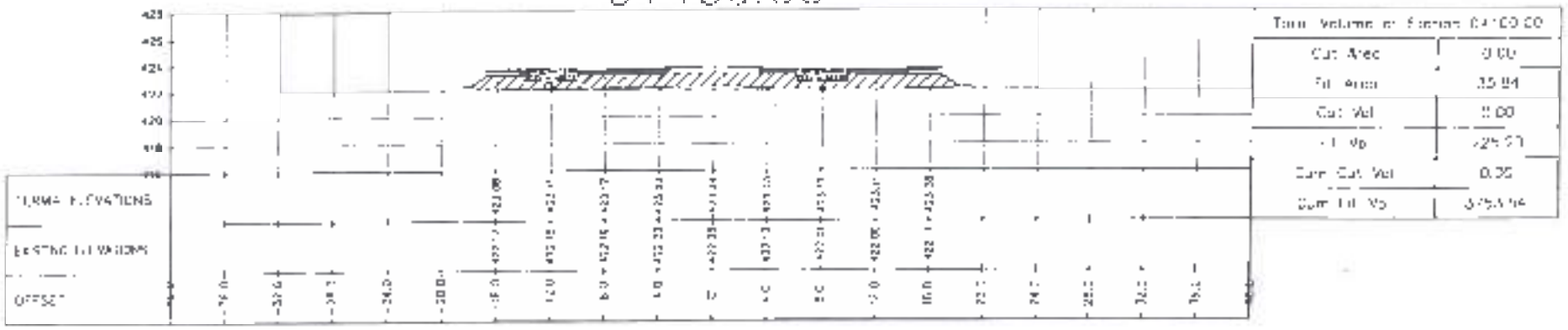
0+080.00



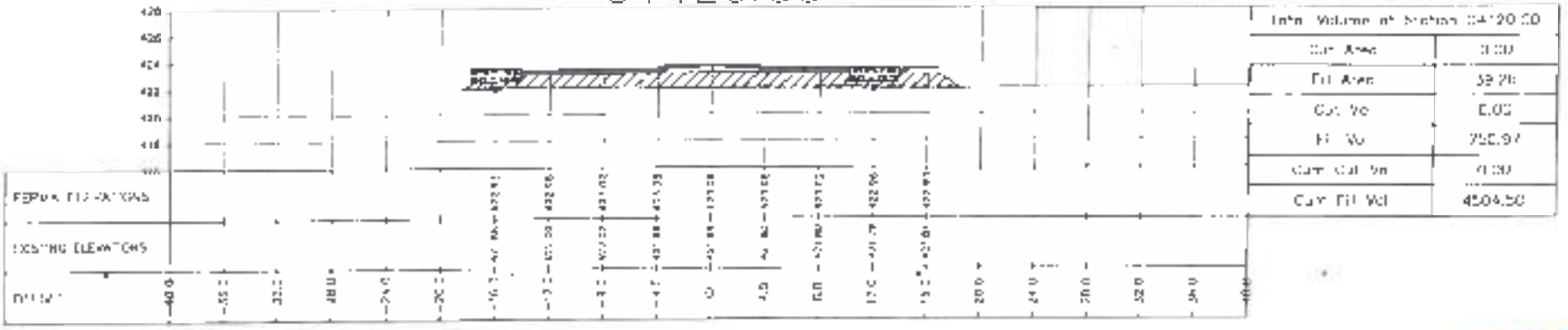
Total Volume at Station 0+080.00	
Cut Area	0.00
Fill Area	38.60
Cut Vol	0.00
Fill Vol	787.55
Cum Cut Vol	0.00
Cum Fill Vol	3048.34

الشركة الهندسية
للطرق والكباري والصرف الصحي
ت. ص. ٥٧٤ / ٦٤٨
٥٧٤ / ١٠٧٦٥

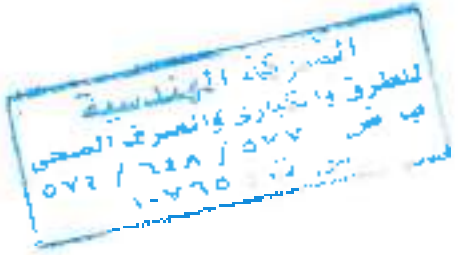
0+100.00



0+120.00



SPECTRUM CONSULTING



UNIVERSAL INSPECTION REQUEST

SYSTRA SAUDCA

RECEIPT of NOTIFICATION - Minimum Notice Period not less than 24 Hours

The Work described below will be complete and ready for inspection at planned time shown

Contractor Company				Designer Company	Spectrum						
Issued by Contractor	Name: Mohamed Sayed	Sign:		Date: 10-12-2022		Time:					
Contractor UIR Reference	12										
Received by ER	Abdellatif Attia			UIR	C1: S. Est Roads	C2	C3	DD	MM	YY	HH	MM

CODE-1 S1 to S21 Station Reference	CODE-1 D1 to D3 Depot Reference	CODE-1 Rp XXX for Kilometer point only	CODE-2 Work Activity	CODE-3 Sub Element of Activity

EXPLANATION OF WORK TO BE INSPECTED

Area	Element	Item
ROAD-05 (0+000 TO 0+400)	FROM ST.(0+255 TO (0+325)	Layer Level (-0.50)

Inspection Description: (LEFT Side)

INSPECTION DETAILS The Following will be ready at the Planned Inspection Time

Planned Inspection Date	Planned Inspection Time

COMPLIANCE EVIDENCE Must be included as appropriate

Checklist Attached ☐	Test Results Attached ☐	Calibration Attached ☐	Other as indicated ☐
Drawing Reference	ITP Reference		MS Reference
Other Attachments	Surveying sheets (Master sheets +cross sections + width sheet)		
Plan profile Rev	NA		NA

Comments by: GARB survey Consultant (XYZ)	Comments by: General Consultant (SYSTRA)
Surveying works (levels-Coords-width) Are inspection and found : work may .	

INSPECTION RESULT

	Name	Sign	Date	Time	Approval Status	Please Tick if Not Attend
Organisation Contractor Engineer	Mohamed Sayed		10-12-2022		A AWC-R	
Contractor QA/QC XYZ					A	
Spectrum						
GARB* Employers Representative	Abdellatif Attia		11-12-22		A	

* Alignment, Bridges, Culvert Only

Instructions for Use:

☐ The Contractor should continue work using their CHECKLIST of inspection items progressively

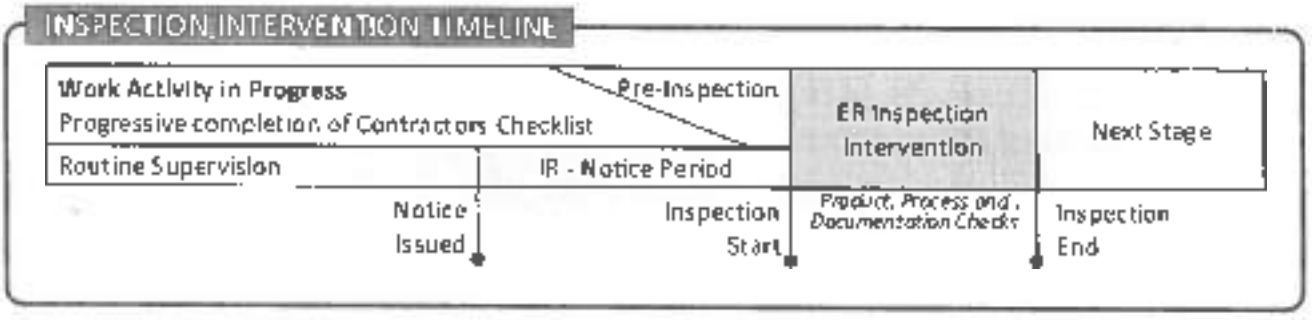
☐ The Contractor should do their own INTERNAL pre-inspection and correct any minor defects before final inspection and if necessary, advise Employer's Representative (ER) of possible delay to arrange correction. Contractor should update their CHECKLIST and their own INTERNAL Comments sheet to show the inspection is satisfactory completed

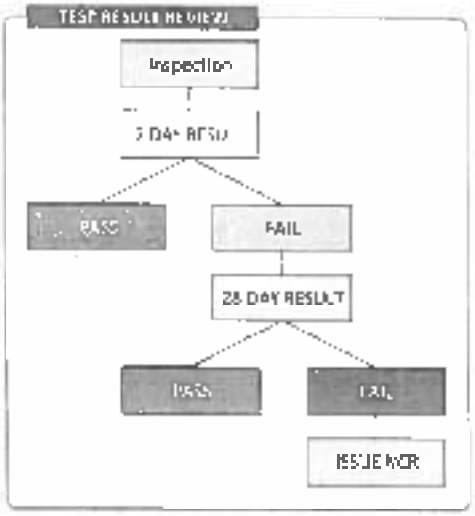
☐ The Contractor Engineer and their QA/QC team should sign the UIR Form before ER inspection. If the work is not ready, they should delay the inspection and not sign the UIR Comments at this stage are not expected although eg: minor cleaning prior to concrete pour will be allowed

☐ The ER shall attend as indicated and check the Contractors supporting Drawings, Test results, Per-inspection signed sheets and check dimensions, alignment, workmanship, etc. If satisfied ER shall sign the UIR Code A = Approved, or shall add relevant comments and add AWC = Approved with Comments and the next stage may progress when the comments have been resolved, or shall add R = Rejected as the work is not satisfactory and must be corrected and reinspected

AWC or R will require a new UIR Form to be issued and the inspection process will re-start at a new date/time

☐ When Approved without comments, the next stage of work may progress





Inspection COMMENTS must be factual

Delayed test results may apply to every discipline at an inspection. When available, may require inspection records to be reviewed for previous work.

It is known that tests results taken during inspection will be available at some date in the future (eg 7 and 28 Days)

The purpose of the UIR is to verify the work stage is ready to progress now. If the Work is ready to progress at the inspection, then it must be Approved and allowed to progress without comment. This is to avoid returning to old AWC records and revise to A.

Review of Test Results is just another stage of the work activity, and result reviews have their own lifecycle. The test results shall be assessed when available, and if they fail to meet the necessary compliance requirements, an NCR shall be issued to track the correction process.

وزارة النقل

مشروع إنشاء القطار السريع

القطاع (شرق النيل) من المحطة 0+000 إلى المحطة 0+400

Inspection Request

التاريخ	2012 /

12

تسليم طبقة (-0.50) من محطة 0+225 إلى محطة 0+325

مدير المشروع	

(LEFT)

	بعد التنظيف مع ملائي التجاوزات وعدم التلفية (C)	مرفوض (R)
	☐	☐

تستخدم هذه الطلب و القالب لكتب لسجلوم	عنده لسيطرة (مكتب XYZ)
الاسم:	عبد القادر الخولي
التوقيع:	
التاريخ:	١٥/١٢/٢٠١٢

SPECTRUM

Station	Easting	Northing
0+000.00	682387.579	798305.0463
0+025.00	682412.3249	798308.6021
0+050.00	682437.0707	798312.1579
0+075.00	682461.8165	798315.7138
0+100.00	682486.5624	798319.2696
0+125.00	682511.3082	798322.8254
0+150.00	682536.054	798326.3813
0+175.00	682560.7998	798329.9371
0+200.00	682585.5457	798333.4929
0+225.00	682610.2915	798337.0487
0+250.00	682635.0373	798340.6046
0+275.00	682659.7832	798344.1604
0+300.00	682684.529	798347.7162
0+325.00	682709.2748	798351.2721
0+350.00	682734.0206	798354.8279
0+375.00	682758.7665	798358.3837
0+400.00	682783.5123	798361.9396

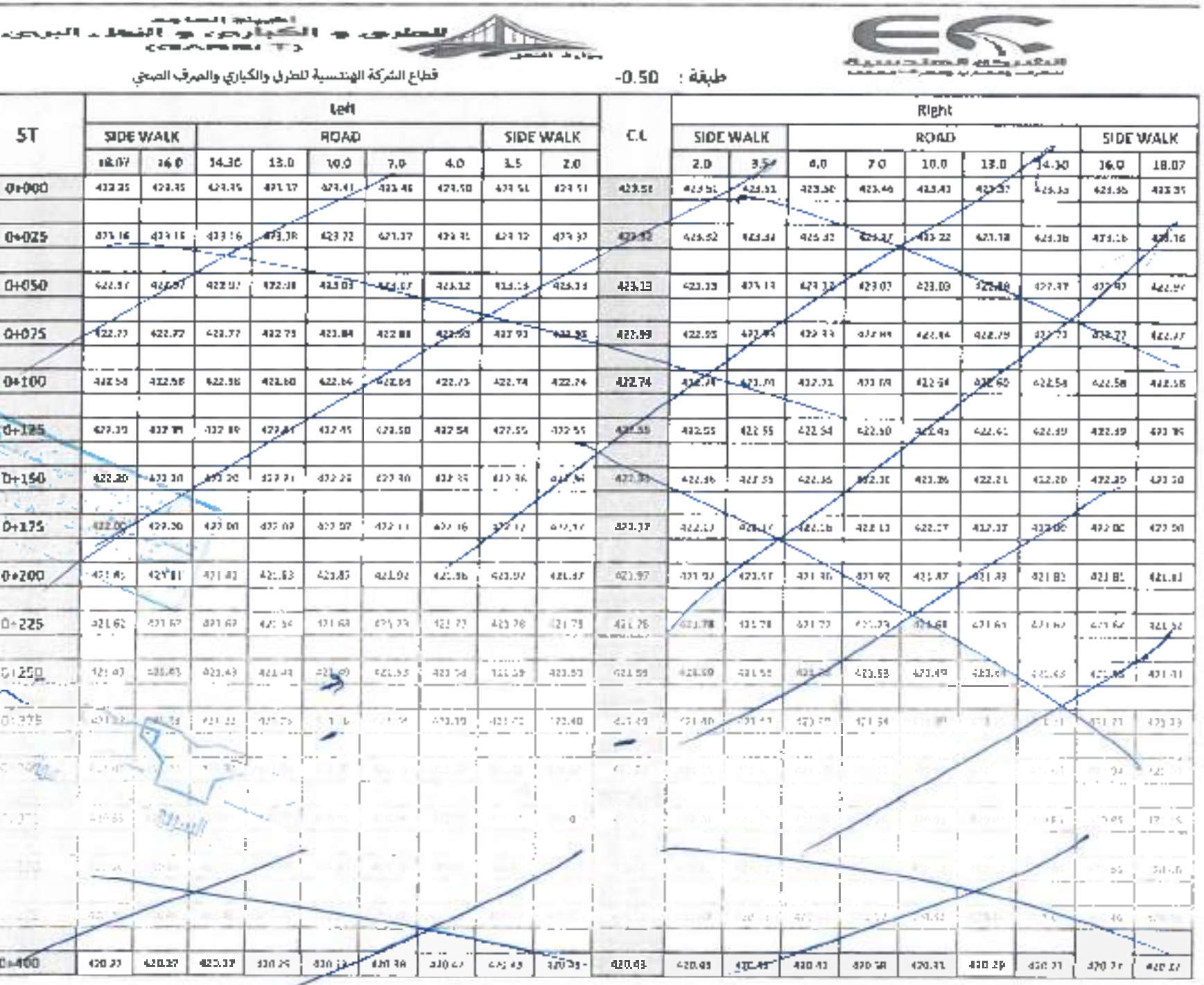
الهيئة العامة
للطرق و الكباري و النقل البري
(GARBLT)

وزارة النقل

MASTER SHEET FOR RD-06 (ZONE 0+000 TO 0+400)

FILL

STATION	0+000	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160	0+180	0+200	0+220	0+240	0+260	0+280	0+300	0+320	0+340	0+360	0+380	0+400
FERMA LEVEL	424.01	423.82	423.63	423.43	423.24	423.05	422.85	422.66	422.47	422.28	422.08	421.89	421.70	421.50	421.31	421.12	420.92	420.73	420.54	420.34	420.15
Replacement LEVEL	423.01	422.82	422.63	422.43	422.24	422.05	421.85	421.66	421.54	421.74	421.62	421.09	420.89	420.68	420.66	420.50	420.32	420.20	420.08	420.00	419.70
Difference	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.93	0.53	0.46	0.80	0.81	0.82	0.65	0.62	0.60	0.53	0.46	0.34	0.45
0	424.012	423.819	423.626	423.433	423.24	423.047	422.854	422.661	422.468	422.275	422.082	421.889	421.696	421.503	421.31	421.117	420.924	420.731	420.538	420.345	420.152
0.25	423.762	423.569	423.376	423.183	422.99	422.797	422.604	422.411	422.218	422.025	421.832	421.639	421.446	421.253	421.06	420.867	420.674	420.481	420.288	420.096	419.902
0.5	423.512	423.319	423.126	422.933	422.74	422.547	422.354	422.161	421.968	421.775		421.389	421.196	421.003	420.81	420.617	420.424	420.231			
0.75	423.262	423.069	422.876	422.683	422.49	422.297	422.104	421.911	421.718			421.139	420.946	420.753							
1	423.012	422.819	422.626	422.433	422.24	422.047	421.854	421.661													



قطاع الشركة الهندسية للطرق والكباري والصرف الصحي

طبقة : -0.50

ST	Left									C.L	Right								
	SIDE WALK		ROAD					SIDE WALK			SIDE WALK		ROAD					SIDE WALK	
	18.07	16.0	14.30	13.0	10.0	7.0	4.0	3.5	2.0		2.0	3.5	4.0	7.0	10.0	13.0	14.30	16.0	18.07
0+000	423.35	423.35	423.35	423.37	423.41	423.46	423.50	423.51	423.51	423.50	423.51	423.51	423.50	423.46	423.43	423.37	423.33	423.35	423.35
0+025	423.16	423.16	423.16	423.18	423.22	423.27	423.31	423.32	423.32	423.32	423.32	423.34	423.32	423.27	423.22	423.18	423.16	423.16	423.16
0+050	422.97	422.97	422.97	422.98	423.03	423.07	423.12	423.13	423.13	423.13	423.13	423.13	423.13	423.07	423.03	422.98	422.97	422.97	422.97
0+075	422.77	422.77	422.77	422.78	422.84	422.88	422.93	422.93	422.93	422.93	422.93	422.94	422.94	422.89	422.84	422.78	422.77	422.77	422.77
0+100	422.58	422.58	422.58	422.60	422.64	422.69	422.73	422.74	422.74	422.74	422.74	422.74	422.73	422.69	422.64	422.60	422.58	422.58	422.58
0+125	422.39	422.39	422.39	422.41	422.45	422.50	422.54	422.55	422.55	422.55	422.55	422.55	422.54	422.50	422.45	422.41	422.39	422.39	422.39
0+150	422.20	422.20	422.20	422.21	422.25	422.30	422.35	422.36	422.36	422.36	422.36	422.35	422.36	422.30	422.26	422.21	422.20	422.20	422.20
0+175	422.00	422.00	422.00	422.02	422.07	422.11	422.16	422.17	422.17	422.17	422.17	422.17	422.16	422.11	422.07	422.02	422.00	422.00	422.00
0+200	421.81	421.81	421.81	421.83	421.87	421.92	421.96	421.97	421.97	421.97	421.97	421.97	421.96	421.92	421.87	421.83	421.81	421.81	421.81
0+225	421.62	421.62	421.62	421.64	421.68	421.73	421.77	421.78	421.78	421.78	421.78	421.78	421.77	421.73	421.68	421.64	421.62	421.62	421.62
0+250	421.43	421.43	421.43	421.45	421.49	421.54	421.58	421.59	421.59	421.59	421.59	421.59	421.58	421.54	421.49	421.45	421.43	421.43	421.43
0+275	421.24	421.24	421.24	421.26	421.30	421.35	421.39	421.40	421.40	421.40	421.40	421.41	421.39	421.35	421.30	421.26	421.24	421.24	421.24
0+300	421.05	421.05	421.05	421.07	421.11	421.16	421.20	421.21	421.21	421.21	421.21	421.22	421.20	421.16	421.11	421.07	421.05	421.05	421.05
0+325	420.86	420.86	420.86	420.88	420.92	420.97	421.01	421.02	421.02	421.02	421.02	421.03	421.01	420.97	420.92	420.88	420.86	420.86	420.86
0+350	420.67	420.67	420.67	420.69	420.73	420.78	420.82	420.83	420.83	420.83	420.83	420.84	420.82	420.78	420.73	420.69	420.67	420.67	420.67
0+375	420.48	420.48	420.48	420.50	420.54	420.59	420.63	420.64	420.64	420.64	420.64	420.65	420.63	420.59	420.54	420.50	420.48	420.48	420.48
0+400	420.29	420.29	420.29	420.31	420.35	420.40	420.44	420.45	420.45	420.45	420.45	420.46	420.44	420.40	420.35	420.31	420.29	420.29	420.29

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E
3 ABD EL-KAWY AHMED St., MOHANDEESEEN - GIZA
Tel. : 3448413 - Fax. : 3031719

Project: Electric Express Train.15 May Sector — *File No.: 4800/S*

Client - الشركة الهندسية — *Date 11/12/2022*

Density of Soil In-Place By Sand-Cone Method (ASTM D-1556)

Date of testing	*10-12-22*
Location	*000+225 to 000+325*
Description Of Tested Material	*Stone , Gravel & Sand.*
Condition of the test	*Tested as found in the existing moisture content.*

Station	*Level (m)*	*Bulk Density (gm/cm3)*	*Moisture Content (%)*	*Insitu Dry Density (gm/cm3)*	*Max Dry Density (gm/cm3)*	*Relative Compaction (%)*
000+300	*-0.50*	*2.104*	*6.4*	*1.978*	*2.040*	*96.9*

Notes:

1- Test location were chosen and identified by the consultant.

2-Maximum Dry Density value was provided by client.

ARDAMAN Split
Egypt Express Train
Project

Prepared by : Eng. Rody Yehia

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.AE

3 ABD EL KAWY AHMED St , MOHANDESEEN - GIZA
Tel. : 33448413 - Fax. : 33031719

Project: Electric Express Train - 15May Sector — *File No.: 48088*

Client: شركة الهندسية — *Date: 06/12/2022*

PARTICLE SIZE ANALYSIS OF SOILS AND MATERIALS FINER THAN # 200 Sieve ASTM D - 422

Sample delivery date: 05/12/2022
Sample Identification No. : Sample No. 932
Source of sample: St Stock Pile Road 6
Level (m) : -
Classification According to AASHTO: A-1-b
Percentage of materials finer than # 200: 16.1%

Sieve No.	Opening (mm)	Percentage Passing %	
3 in.	75	100.0	
2.5 in.	63.5	100.0	
2 in.	50	100.0	
1.5 in.	38	100.0	
1 in.	25	99.7	
3/4 in.	19	97.9	
1/2 in.	12.5	94.1	
3/8 in.	9.5	90.8	
No. 4	4.75	78.8	
No. 10	2.0	65.3	
No. 40	0.425	40.7	
No. 200	0.075	16.1	

Notes:-

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rody Yehia

ARDAMAN Split
Egypt Express Train Project

Reviewed by : Eng.Osama Moftah

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E

3 AHD EL KAWY AHMED St , MOHANDESEEN - GIZA
Tel. : 33448413 - Fax. : 33031719

Project: Electric Express Train - 15May Sector *File No.: 4800/S*

Client: شركة الهندسية *Date: 06/12/2022*

LIQUID LIMIT , PLASTIC LIMIT , AND PLASTICITY INDEX OF SOILS ACCORDING TO ASTM D4318

Sample delivery date: *05/12/2022*

Sample Identification No. : *Sample No. 932*

Source of sample: *St Stock Pile Road 6*

Level (m) : _

Sample Identification No.	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)
Sample No. 932	25.1	19.2	5.9

- Notes:

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rody Yehia

ARDAMAN Split
Egypt Express Train Project

Reviewed by : Eng.Osama Moftah

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E

3 ABD EL-KAWY AHMED ST., MOHANDESEEN - GIZA
TEL.: 33448413 - FAX: 33031719

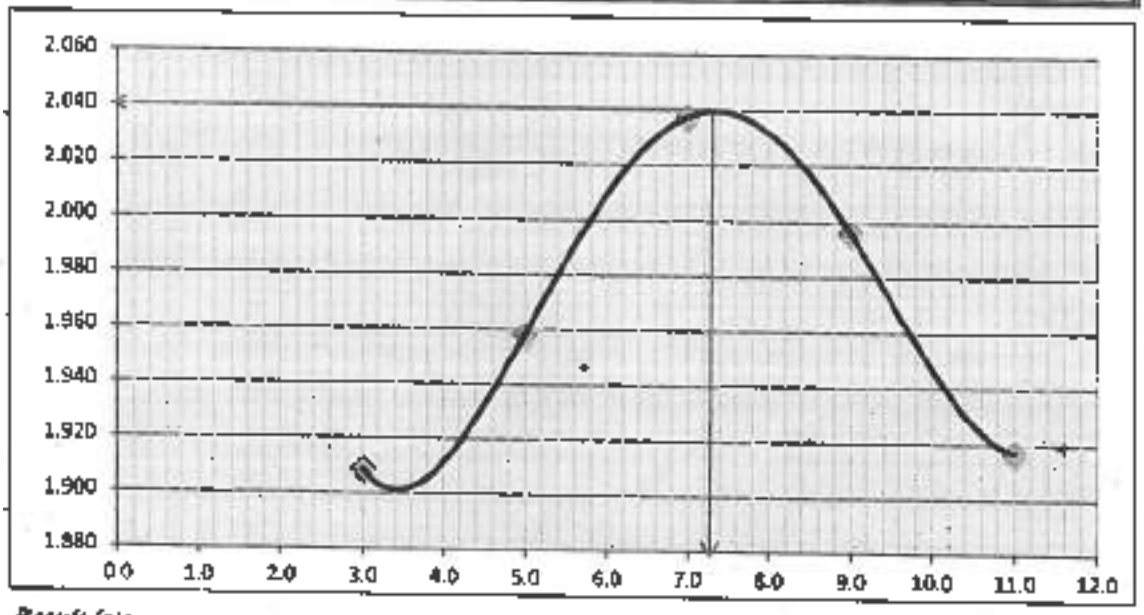
Project: Electric Express Train - 15May Sector — *File No.: 4800/S*

Client: شركة الهندسية — *Date: 06/12/2022*

MOISTURE DENSITY RELATIONSHIP OF SOIL ACCORDING TO ASTM D 1557

Sample delivery date: 05/12/2022
Sample Identification No. : Sample No. 932
Source of sample: St Stock Pile Road 6
Level (m) : –

Wet Unit Weight, gm/cm³	1.966	2.056	2.180	2.176	2.128
Water Content, %	3.0	5.0	7.0	9.0	11.0
Dry Unit Weight, gm/cm³	1.909	1.958	2.037	1.996	1.917



Result (s):

1- Maximum dry density = 2.040 t/m³
2- Optimum moisture content = 7.30 %

Note (s):

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rady Fekie

ARDAMAN Split
Egypt Express Train Project

Reviewed by : Eng. Doaa Mostafa

ARDAMAN *Split*

MATERIALS AND CONSTTRUCTION TESTING, SAE
3 ABD EL-KAWY AHMED St., MOHANDEESEEN - GIZA (Tel. : 33448413 - Mobile : 01006030248)

Project: Electric Express Train - 15 May Sector	**File No.**	**4800/S**
	Date	**06/12/2022**

CHEMICAL ANALYSIS REPORT

Letter Ref. No.	**ARD-CH**	**50**	**Testing Date :6/12/2022**

Type *of* Tested Material	**SOIL (Ref.: AASHTO T-267)**
Delivery Date	**05/12/2022**

Sample Code No.	Source	Level	Station	Organic Matter Content, %
932	شركة الهندسية	Stockpile	Road-6	0.562

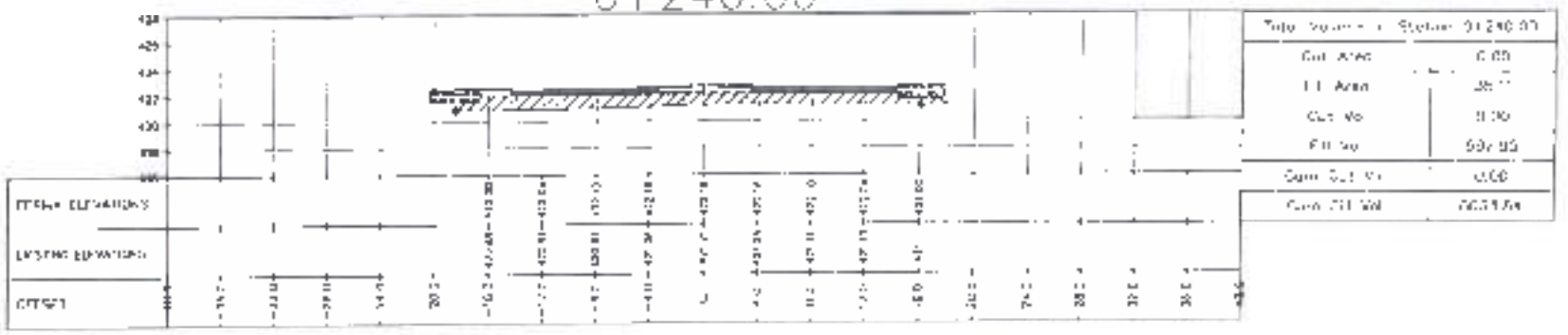
Criteria *of* Acceptance	**1.0%**

Note :	***The Samples were found Complying with the Project Specs.***

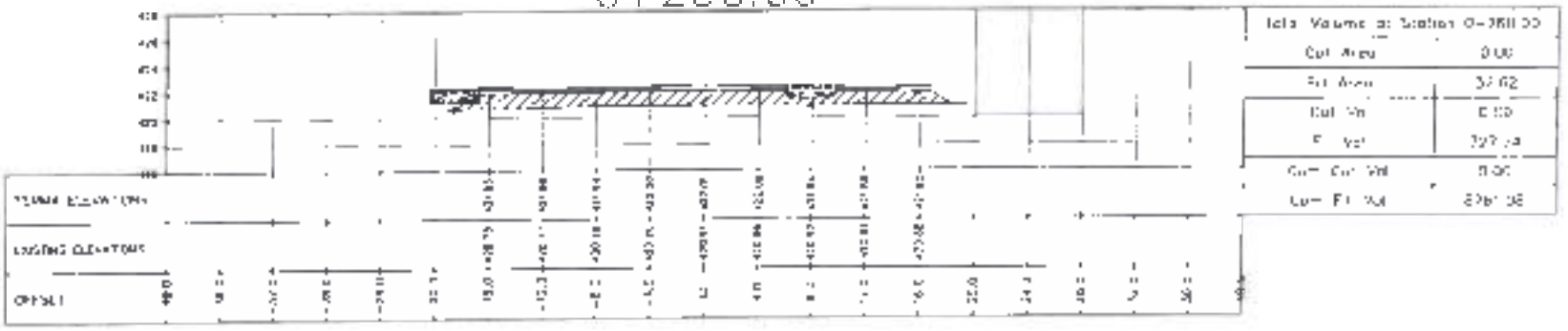
Prepared By: Chem/ Mina Ayman

ARDAMAN Split
Egypt Express Train
Project

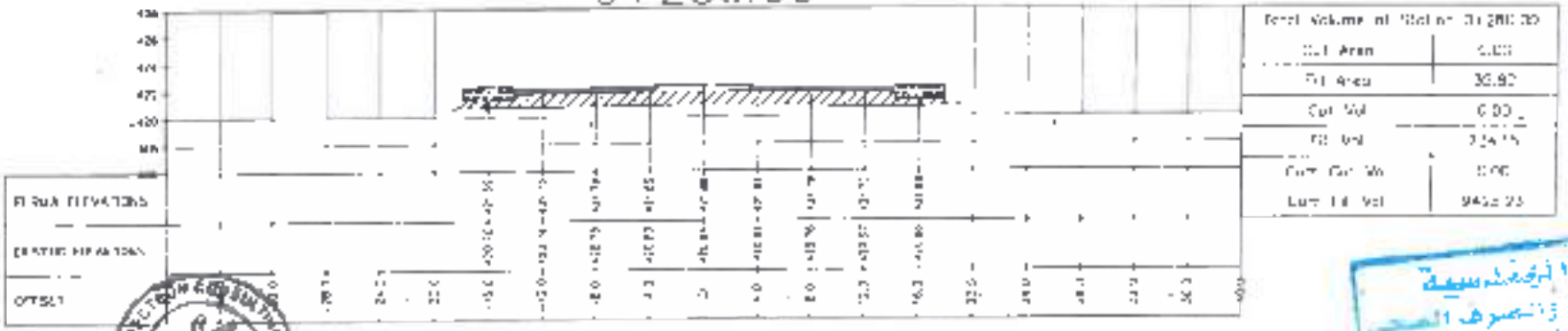
0+240.00



0+260.00

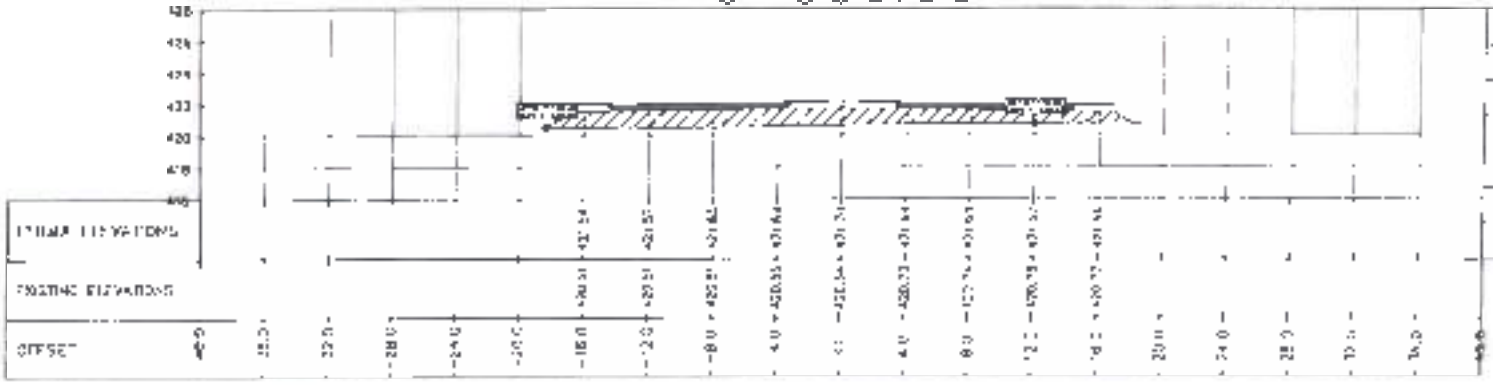


0+280.00



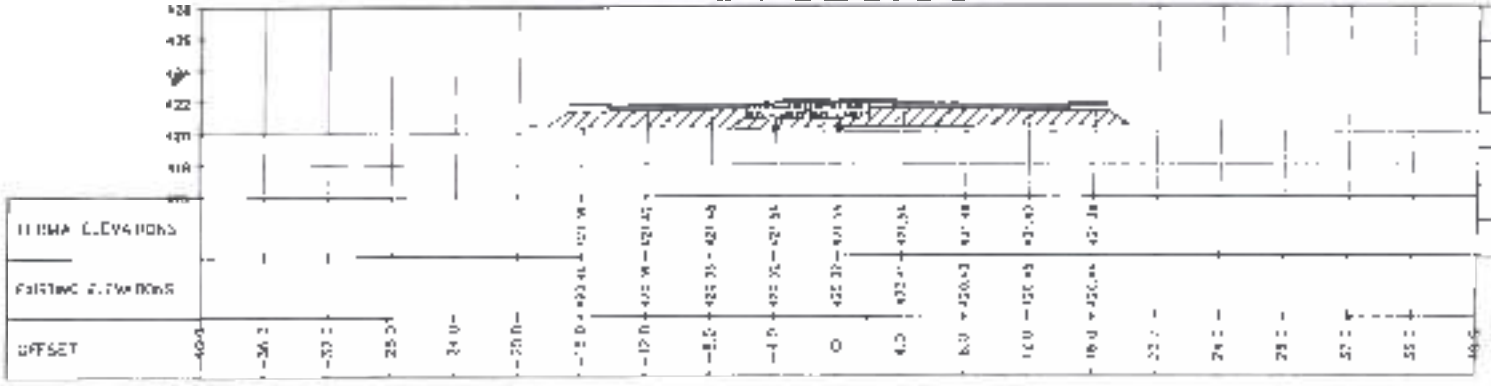
الشركة الهندسية
للطرق والجسور والتصرف الصحي
ب.ح. ... / ... / ...
٥٧٤ / ٦٤٨
١٠٧٦٤

0+330.00



Total Volume at Station 0+330.00	
Cut Area	0.00
Fill Area	24.59
Cut Vol	0.00
Fill Vol	705.52
Cum Cut Vol	0.00
Cum Fill Vol	10199.15

0+320.00



Total Volume at Station 0+320.00	
Cut Area	0.00
Fill Area	17.49
Cut Vol	0.00
Fill Vol	723.10
Cum Cut Vol	0.00
Cum Fill Vol	10023.24

SPECTRUM CONSULTING

الشركة الهندسية
للطرق والجسور والمرافق العامة
ص.ب
٥٧٤ / ٦٤٨ /
١٠٧٦٥

UNIVERSAL INSPECTION REQUEST

RECEIPT of NOTIFICATION - Minimum Notice Period not less than 24 Hours
The Work described below will be complete and ready for inspection at planned time shown

Contractor Company			Designer Company	Spectrum	
Issued by Contractor	Name: Mohamed Sayed	Sign:	Date: 11-12-2022	Time:	
Contractor UIR Reference	13				
Received by ER	Abdelhadi Attia		UIR	C1: S1 / C2: S2 / C3: Pier	DD / MM / YY / HH / MM

CODE-1 S1 to S21 Station Reference	CODE-1 D1 to S3 Depot Reference	CODE-1 Kp XXX For Kilometer point only	CODE-2 Work Activity	CODE-3 Sub Element of Activity

EXPLANATION OF WORK TO BE INSPECTED

Area	Element	Item
ROAD-25 (0+000 TO 0+400)	FROM ST. (0+100) TO (0+200)	Layer Level (-0.50)

Inspection Description: (LEFT Side)

INSPECTION DETAILS The Following will be ready at the Planned Inspection Time

Planned Inspection Date	Planned Inspection Time

COMPLIANCE EVIDENCE Must be included as appropriate

Checklist Attached ☐	Test Results Attached ☐	Calibration Attached ☐	Other as indicated ☐
Drawing Reference	ITP Reference		MS Reference
Other Attachments	Surveying sheets (Master sheets +cross sections + width sheet)		
Plan profile Rev	NA		NA

Comments by :GARB survey Consultant (XYZ)	Comments by: General Consultant (SYSTRA)
Surveying works (levels-Coords-width) Are inspection and found : work may .	

INSPECTION RESULT

		Name	Sign	Date	Time	Approval Status A-AWC B	Please Tick if Not Attend
Organisation							
Contractor Engineer		Mohamed Sayed		11-12-2022		A	
Contractor QA/QC	XYZ						
	Spectrum					A	
GARB*							
Employers Representative		Abdelhadi Attia		13-12-22		A	

* Alignment: Bridge : Viaduct Only

Instructions for Use:

☐ The Contractor should continue work using their CHECKLIST of inspection items progressively

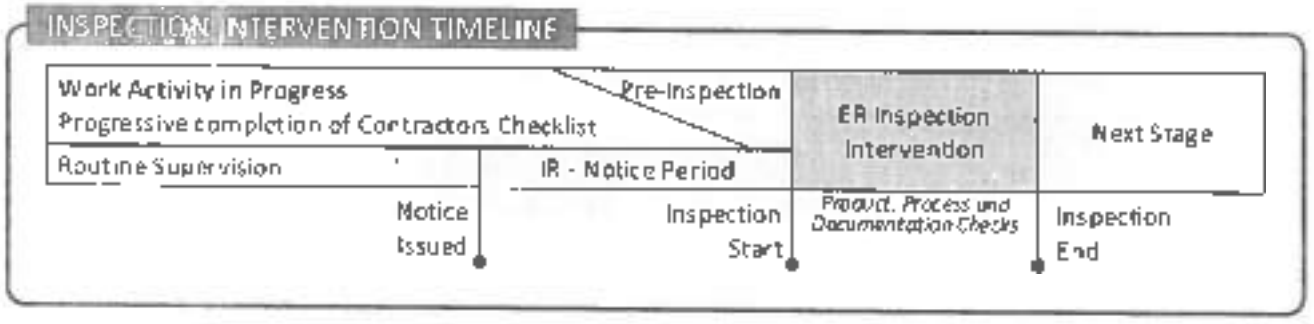
☐ The Contractor should do their own INTERNAL pre-inspection and correct any minor defects before final inspection and if necessary, advise Employer's Representative (ER) of possible delay to arrange correction. Contractor should update their CHECKLIST and their own INTERNAL Comments sheet to show the inspection is satisfactory completed.

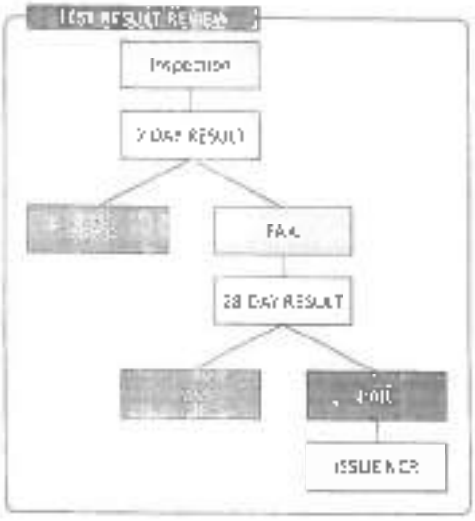
☐ The Contractor Engineer and their QA/QC team should sign the UIR Form before ER inspection. If the work is not ready, they should delay the inspection and not sign the UIR. Comments at this stage are not expected although eg, minor cleaning prior to concrete pour will be allowed

☐ The ER shall attend as indicated and check the Contractors supporting Drawings, Test results, Per-inspection signed sheets and check dimensions, alignment, workmanship, etc. If satisfied ER shall sign the UIR Code A = Approved, or shall add relevant comments and add AWC = Approved with Comments and the next stage may progress when the comments have been resolved, or shall add R = Rejected as the work is not satisfactory and must be corrected and reinspected

AWC or R will require a new UIR Form to be issued and the inspection process will re-start at a new date/time

☐ When Approved without comments, the next stage of work may progress





Inspection COMMENTS must be factual

Delayed test results may apply to every discipline at an inspection. When available, may require inspection records to be reviewed for previous work.

It is known that tests results taken during inspection will be available at some date in the future (eg 7 and 28 Days).

The purpose of the UIR is to verify the work stage is ready to progress now. If the Work is ready to progress at the Inspection, then it must be Approved and allowed to progress without comment. This is to avoid returning to old AWC records and revise to A.

Review of Test Results is just another stage of the work activity, and result reviews have their own lifecycle. The test results shall be assessed when available, and if they fail to meet the necessary compliance requirements, an **NCR** shall be issued to track the correction process.

وزارة النقل

مشروع إنشاء القطار السريع
القطاع (طريق 06) من المحطة 0+000 إلى المحطة 0+400

Inspection Request

طلب رقم	صادر
13	

تاريخ	2022/ /

- مرفق الرفع المساحي (عدد ورقة)

تسليم طبقات (-0.50) من محطة 0+100 الى محطة 0+200 (LEFT side)

مهندس المكتب الفني	مدير المشروع

ملاحظات الاعتماد:

يعتمد	يعتمد مع تداعي الملاحظات (R)	بعد التقييد مع تداعي الملاحظات وعدم القبول (C)	مرفوض (D)
☐	☐	☐	☐

شركة منطقة الجنوب للنقل والتدريب والصرف الصحي	إدارة الإشراف (مكتب 2 و 3)	استشاري هيئة الطرق والكباري (المكتب الميكانيكي)
الاسم: [illegible]	الاسم: [illegible]	الاسم:
التوقيع:	التوقيع:	التوقيع:
التاريخ: 11/12/2022	التاريخ:	التاريخ:

SPECTRUM

المقاولون العرب

Station	Northing	Easting
0+000.00	798305.046	682387.579
0+020.00	798307.891	682407.376
0+040.00	798310.736	682427.172
0+060.00	798313.580	682446.969
0+080.00	798316.425	682466.766
0+100.00	798319.270	682486.562
0+120.00	798322.114	682506.359
0+140.00	798324.959	682526.156
0+160.00	798327.804	682545.952
0+180.00	798330.648	682565.749
0+200.00	798333.493	682585.546
0+220.00	798336.338	682605.342
0+240.00	798339.182	682625.139
0+260.00	798342.027	682644.936
0+280.00	798344.872	682664.732
0+300.00	798347.716	682684.529
0+320.00	798350.561	682704.326
0+340.00	798353.406	682724.122
0+360.00	798356.250	682743.919
0+380.00	798359.095	682763.716
0+400.00	798361.940	682783.512

الهيئة العامة
للطرق و الكباري و النقل البري
(GARBLT)

MASTER SHEET FOR RD-06 (ZONE 0+000 TO 0+400)

FIBL

STATION	0+000	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160	0+180	0+200	0+220	0+240	0+260	0+280	0+300	0+320	0+340	0+360	0+380	0+400
FORMA LEVEL	424.01	423.82	423.63	423.43	423.24	423.05	422.85	422.66	422.47	422.28	422.08	421.89	421.70	421.50	421.31	421.12	420.92	420.73	420.54	420.34	420.15
Replacement LEVEL	423.01	422.82	422.63	422.43	422.24	422.05	421.85	421.66	421.54	421.74	421.62	421.09	420.89	420.68	420.66	420.50	420.32	420.20	420.08	420.00	419.70
Difference	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.93	0.53	0.46	0.80	0.81	0.82	0.65	0.62	0.60	0.53	0.46	0.34	0.45
0	424.012	423.819	423.626	423.433	423.24	423.047	422.854	422.661	422.468	422.275	422.087	421.889	421.696	421.503	421.31	421.117	420.924	420.731	420.538	420.345	420.152
0.25	423.762	423.569	423.376	423.183	422.99	422.797	422.604	422.411	422.218	422.025	421.832	421.639	421.446	421.253	421.06	420.867	420.674	420.481	420.288	420.095	419.902
0.5	423.512	423.319	423.126	422.933	422.74	422.547	422.354	422.161	421.968	421.775		421.389	421.196	421.003	420.81	420.617	420.424	420.231			
0.75	423.262	423.069	422.876	422.683	422.49	422.297	422.104	421.911	421.718			421.139	420.946	420.753							
1	423.012	422.819	422.626	422.433	422.24	422.047	421.854	421.661													

قطاع الشركة الهندسية للطرق والكباري والصرف الصحي

طبقة : -0.50

ST	Left									C.L	Right								
	SIDE WALK		ROAD					SIDE WALK			SIDE WALK		ROAD					SIDE WALK	
	18.07	16.0	14.30	13.0	10.0	7.0	4.0	3.5	2.0		2.0	3.5	4.0	7.0	10.0	13.0	14.30	16.0	18.07
0+000	423.36	423.35	423.35	423.33	423.31	423.30	423.30	423.32	423.31	423.31	423.31	423.31	423.30	423.26	423.21	423.17	423.15	423.15	423.15
0+025	423.33	423.33	423.33	423.29	423.32	423.27	423.31	423.32	423.32	423.32	423.32	423.32	423.31	423.27	423.23	423.19	423.16	423.16	423.16
0+050	423.27	423.27	423.27	423.24	423.05	423.27	423.12	423.13	423.13	423.13	423.13	423.13	423.12	423.07	423.03	422.98	422.97	422.97	422.97
0+075	423.23	423.23	423.23	423.20	423.24	423.25	423.09	423.11	423.11	423.11	423.11	423.11	423.09	423.05	423.01	422.94	422.93	422.93	422.93
0+100	423.54	423.58	423.58	423.60	423.60	423.65	423.78	423.74	423.74	423.74	423.74	423.74	423.73	423.69	423.64	423.60	423.58	423.58	423.58
0+125	423.39	423.55	423.53	423.41	423.45	423.50	423.54	423.55	423.55	423.55	423.55	423.55	423.54	423.50	423.45	423.41	423.19	423.55	423.55
0+150	423.20	423.20	423.20	423.25	423.26	423.30	423.35	423.36	423.35	423.36	423.36	423.35	423.35	423.30	423.25	423.21	423.20	423.20	423.20
0+175	423.00	423.00	423.02	423.07	423.07	423.11	423.15	423.17	423.17	423.17	423.17	423.17	423.16	423.11	423.07	423.02	423.00	423.00	423.00
0+200	423.81	423.81	423.81	423.83	423.87	423.92	423.96	423.97	423.97	423.97	423.97	423.97	423.96	423.92	423.87	423.83	423.81	423.81	423.81
0+225	423.62	423.63	423.62	423.64	423.68	423.73	423.77	423.78	423.78	423.78	423.78	423.78	423.77	423.73	423.68	423.64	423.62	423.62	423.62
0+250	423.43	423.43	423.43	423.44	423.48	423.53	423.58	423.59	423.59	423.59	423.59	423.59	423.58	423.53	423.49	423.44	423.43	423.43	423.43
0+275	423.25	423.25	423.25	423.25	423.30	423.34	423.39	423.40	423.40	423.40	423.40	423.40	423.39	423.34	423.30	423.25	423.23	423.25	423.25
0+300	423.04	423.04	423.04	423.06	423.10	423.15	423.19	423.20	423.20	423.20	423.20	423.20	423.19	423.15	423.10	423.06	423.04	423.04	423.04
0+325	420.85	420.85	420.85	420.87	420.93	420.96	421.00	421.01	421.01	421.01	421.01	421.01	421.00	420.96	420.91	420.87	420.85	420.85	420.85
0+350	420.66	420.66	420.66	420.67	420.72	420.76	420.81	420.82	420.83	420.82	420.82	420.82	420.83	420.76	420.72	420.67	420.66	420.66	420.66
0+375	420.46	420.46	420.46	420.48	420.53	420.57	420.62	420.63	420.63	420.63	420.63	420.63	420.62	420.57	420.53	420.48	420.46	420.46	420.46
0+400	420.27	420.27	420.27	420.29	420.33	420.38	420.43	420.43	420.43	420.43	420.43	420.43	420.42	420.38	420.33	420.29	420.27	420.27	420.27

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E
3 ABD El.-KAWY AHMED St., MOHANDEESEEN - GIZA
Tel : 3448413 - Fax. : 3031719

Project: Electric Express Train.15 May Sector

Client : الشركة الهندسية

File No.: 4800/S

Date 12/12/2022

Density of Soil In-Place By Sand-Cone Method (ASTM D-1556)

Date of testing	*11-12-22*
Location	*000+100 to 000-200*
Description Of Tested Material	*Stone , Gravel & Sand.*
Condition of the test	*Tested as found in the existing moisture content.*

Station	*Level (m)*	*Bulk Density (gm/cm3)*	*Moisture Content (%)*	*Insitu Dry Density (gm/cm3)*	*Max Dry Density (gm/cm3)*	*Relative Compaction (%)*
000+150	*-0.50*	*1.963*	*6.3*	*1.847*	*2.040*	*90.5*

Notes:

1- Test location were chosen and identified by the consultant.

2-Maximum Dry Density value was provided by client.

Prepared by : Eng. Rody Yehia

ARDAMAN Split
Egypt Express Train
Project

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E
3 ABD EL-KAWY AHMED St , MOHANDEESEEN - GIZA
Tel. : 3448413 - Fax. : 3031719

Project: Electric Express Train.15 May Sector — *File No.: 4800/S*

Client الشركة الهندسية — *Date 13/12/2022*

Density of Soil In-Place By Sand-Cone Method (ASTM D-1556)

Date of testing	*12-12-22*
Location	*000+100 to 000+200 Re-Test*
Description Of Tested Material	*Stone , Gravel & Sand.*
Condition of the test	*Tested as found in the existing moisture content.*

Station	*Level (m)*	*Bulk Density (gm/cm3)*	*Moisture Content (%)*	*Insitu Dry Density (gm/cm3)*	*Max Dry Density (gm/cm3)*	*Relative Compaction (%)*
000+150	*-0.50*	*2.043*	*6.3*	*1.941*	*2.040*	*95.1*

Notes:

1- Test location were chosen and identified by the consultant.

2-Maximum Dry Density value was provided by client.

Prepared by : Eng. Rody Yehia

ARDAMAN Split
Egypt Express Train Project

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING
S.A.E

3 ABD EL KAWY AHMED St. , MOHANDESEEN - GIZA
Tel. : 33448413 · Fax. : 33031719

Project: Electric Express Train - 15May Sector ***File No.: 4800/S***

Client: شركة الهندسية ***Date: 06/12/2022***

PARTICLE SIZE ANALYSIS
OF SOILS AND MATERIALS FINER THAN # 200 Sieve
ASTM D - 422

Sample delivery date: *05/12/2022*
Sample Identification No. : *Sample No. 932*
Source of sample: *St Stock Pile Road 6*
Level (m) : *-*
Classification According to AASHTO: *A-1-b*
Percentage of materials finer than # 200: *16.1%*

Sieve No.	Opening (mm)	Percentage Passing %	
3 in.	75	100.0	
2.5 in.	63.5	100.0	
2 in.	50	100.0	
1.5 in.	38	100.0	
1 in.	25	99.7	
3/4 in.	19	97.9	
1/2 in.	12.5	94.1	
3/8 in.	9.5	90.8	
No. 4	4.75	78.8	
No. 10	2.0	65.3	
No. 40	0.425	49.7	
No. 200	0.075	16.1	

Notes:-

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rody Yehia

ARDAMAN Split
Egypt Express Train Project

Reviewed by : Eng.Osama Moftah

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E

3 ABD EL KAWY AHMED St. , MOHANDESEEN - GIZA
Tel. : 33448413 - Fax. : 33031719

Project: Electric Express Train - 15May Sector ***File No.: 4800/S***

Client: شركة الهندسية ***Date: 06/12/2022***

LIQUID LIMIT , PLASTIC LIMIT , AND PLASTICITY INDEX OF SOILS ACCORDING TO ASTM D4318

Sample delivery date: ***05/12/2022***

Sample Identification No. : ***Sample No. 932***

Source of sample: ***St Stock Pile Road 6***

Level (m) : -

Sample Identification No.	*Liquid Limit (%)*	*Plastic Limit (%)*	*Plasticity Index (%)*
Sample No. 932	*25.1*	*19.2*	*5.9*

- Notes:

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rody Yehia

ARDAMAN Split
Egypt Express Train Project

Reviewed by : Eng.Osama Moftah

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E

3 ABD EL-KAWY AHMED ST.. MOHANDESEEN - GIZA
TEL.: 33448413 - FAX.: 33031719

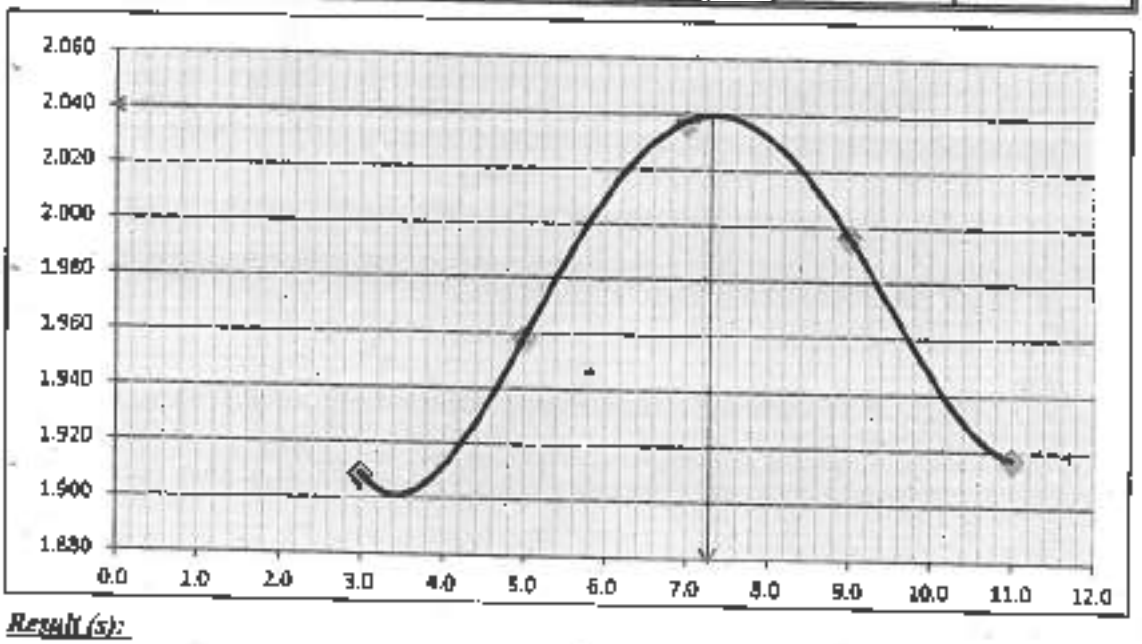
Project: Electric Express Train - 15May Sector *File No.: 4800/S*

Client: شركة الهندسية *Date: 06/12/2022*

MOISTURE DENSITY RELATIONSHIP OF SOIL ACCORDING TO ASTM D 1557

Sample delivery date: 05/12/2022
Sample Identification No. : Sample No. 932
Source of sample: St Stock Pile Road 6
Level (m) : -

Wet Unit Weight, gm/cm³	1.966	2.056	2.180	2.176	2.128
Water Content, %	3.0	5.0	7.0	9.0	11.0
Dry Unit Weight, gm/cm³	1.909	1.958	2.037	1.996	1.917



Result (s):

1- *Maximum dry density* = 2.040 t/m³
2- *Optimum moisture content* = 7.30 %

Note (s):

1- The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rady Yehia

ARDAMAN Split
Egypt Express Train Project

Reviewed by : Eng.Osama Moftah

ARDAMAN *Split*

MATERIALS AND CONSTTRUCTION TESTING, SAE
3 ABD EL-KAWY AHMED St., MOHANDEESEEN - GIZA (Tel. : 33448413 - Mobile : 01006930248)

Project:	**Electric Express Train - 15 May Sector**	**File No.**	**4800/S**
		Date	**06/12/2022**

CHEMICAL ANALYSIS REPORT

Letter Ref. No.	**ARD-CH**	**50**	**Testing Date :6/12/2022**

Type *of* Tested Material	**SOIL (Ref.: AASHTO T-267)**
Delivery Date	**05/12/2022**

Sample Code No.	Source	Level	Station	Organic Matter Content, %
932	شركة الهندسية	Stockpile	Road-6	0.562

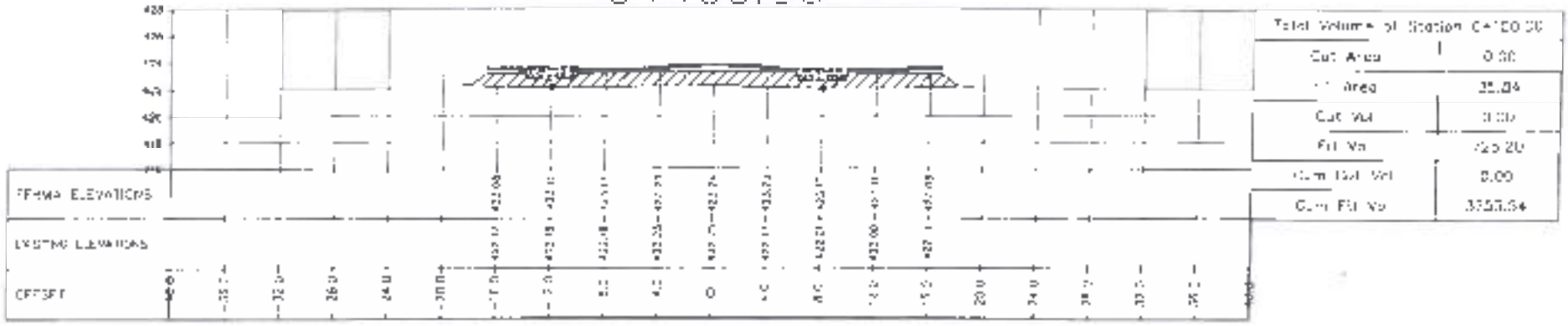
Criteria *of* Acceptance	**1.0%**

Note :	***The Samples were found Complying with the Project Specs.***

Prepared By: Chem/ Mina Ayman

ARDAMAN Split
Egypt Express Train
Project

0+100.00



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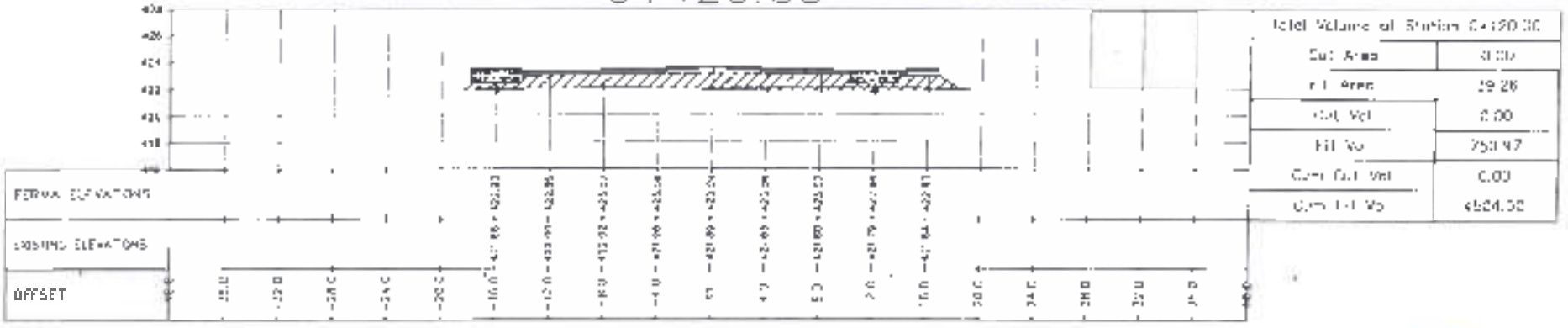

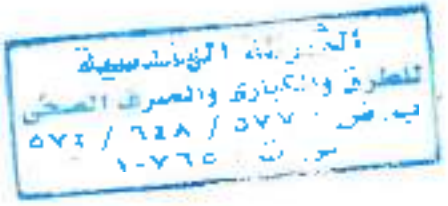

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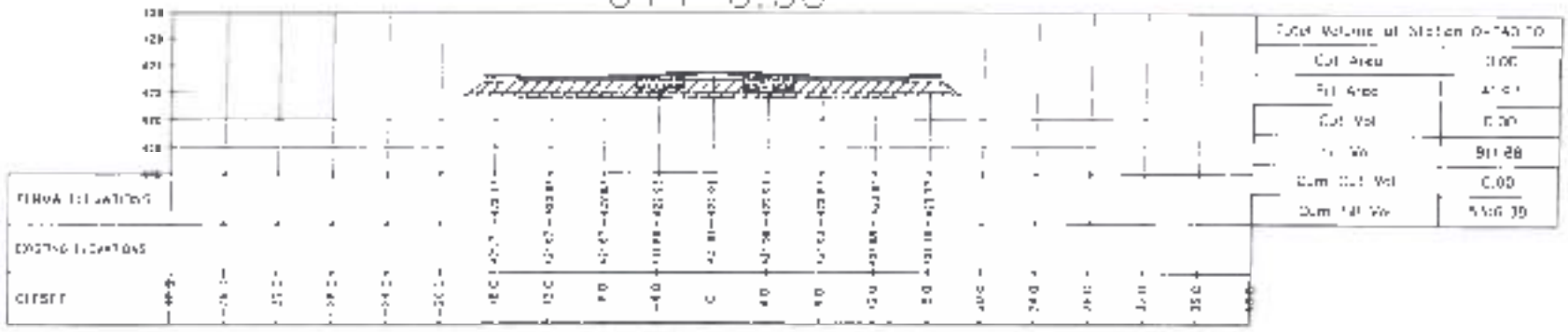

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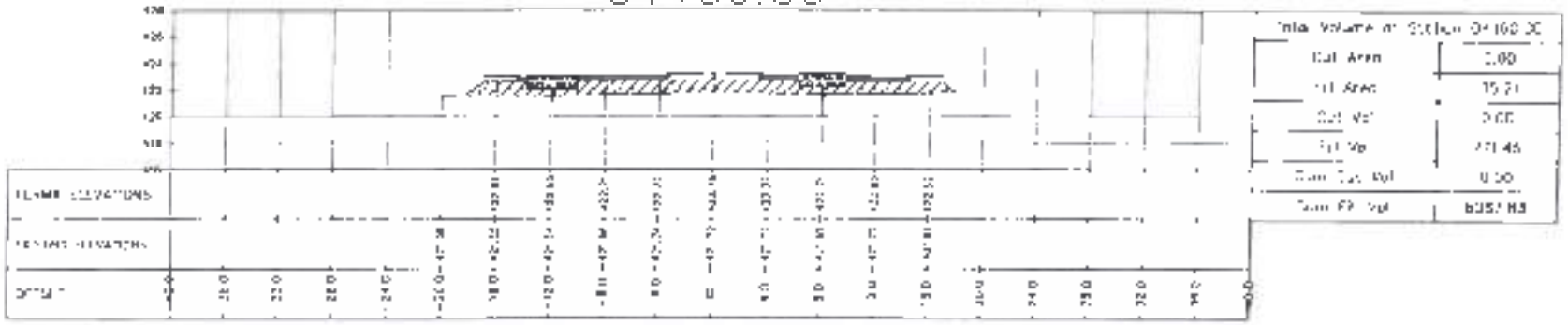

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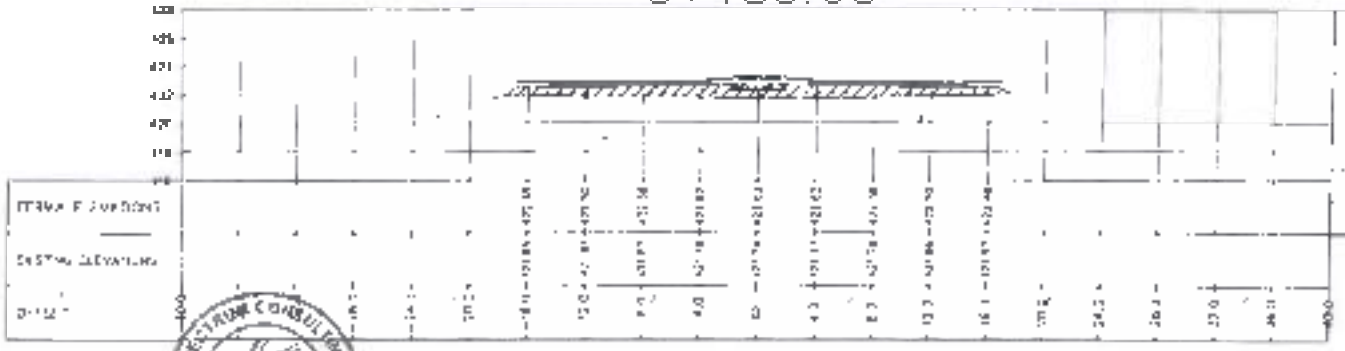
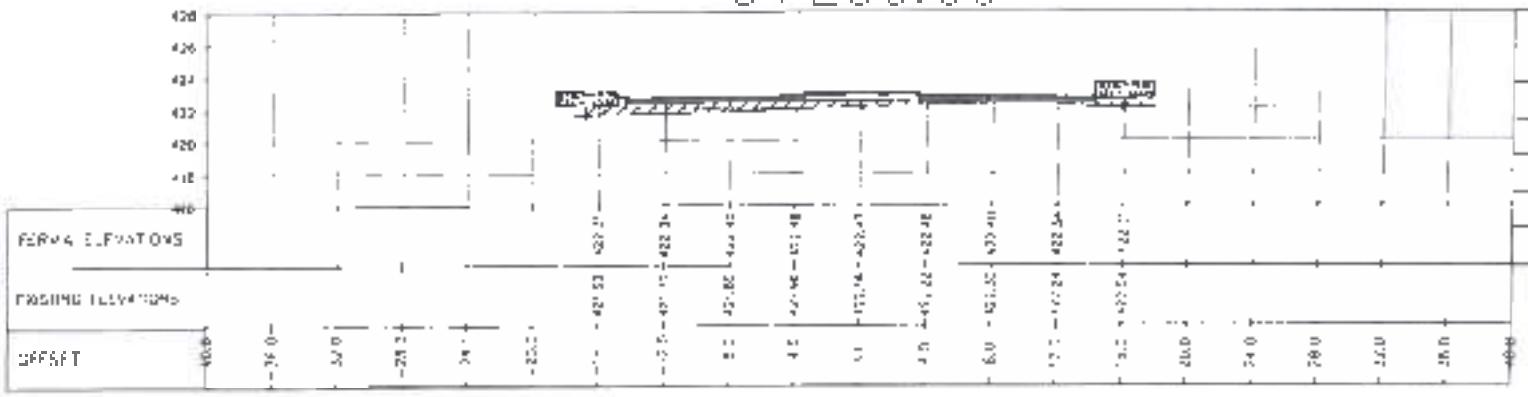


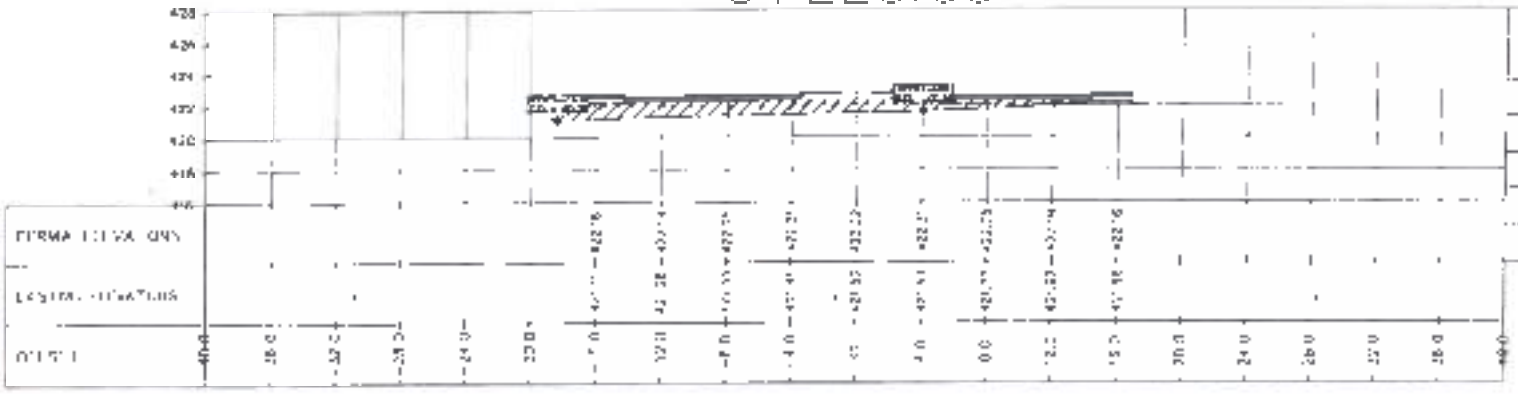
الشركة الهندسية
للطرق والمباني والصرف الصحي
ص.ب ... / ٥٧٤ / ٦٤٨
١٠٧٦٥

0+200.00



Total Volume at Station 0+200.00	
Cut Area	5.00
Fill Area	12.98
Cut Vol	0.00
Fill Vol	379.52
Cum Cut Vol	0.00
Cum Fill Vol	7530.19

0+220.00



Total Volume at Station 0+220.00	
Cut Area	0.00
Fill Area	24.19
Cut Vol	0.00
Fill Vol	241.91
Cum Cut Vol	0.00
Cum Fill Vol	7440.85

SPECTRUM CONSULTING
شركة الهندسية
للطرق والجسور والصرف الصحي
ب ص ٥٧٧
٥٧٤ / ٦٤٨
١-٧٦٥

UNIVERSAL INSPECTION REQUEST

RECEIPT of NOTIFICATION - Minimum Notice Period not less than 24 Hours
The Work described below will be complete and ready for inspection at planned time shown

Contractor Company			Designer Company	Spectrum	
Issued by Contractor	Name Mohamed Sayed	Sign	Date 11-12-2022	Time	
Contractor I.I.R Reference	14				
Received by ER	Abdellatif Amin		IIR		

CODE-1 (S1 to S21) Station Reference	CODE-1 D1 to D3 Depot Reference	CODE-1 Km XXX For Kilometer point only	CODE-2 Work Activity	CODE-3 Sub Element of Activity

C1	C2	C3	DD	MM	YY	HH	MM
S1	Emb	Bank					

EXPLANATION OF WORK TO BE INSPECTED

Area	Element	Item
ROAD NS (04000 TO 04400)	FROM STA 0+000 TO 0+100	Layer Level (-0.25)

Inspection Description : (Left Side)

INSPECTION DETAILS The Following will be ready at the Planned Inspection Time

Planned Inspection Date	Planned Inspection Time

COMPLIANCE EVIDENCE Must be included as appropriate

Checklist Attached ☐	Test Results Attached ☐	Calibration Attached ☐	Other as indicated ☐
Drawing Reference	ITP Reference	MS Reference	
Other Attachments	Surveying sheets (Master sheets +cross sections + width sheet)		
Plan profile Rev	NA	NA	

Comments by GARB survey Consultant (XYZ)	Comments by General Consultant (SYSTRA)
Surveying works (Levels-Coords-width) Are inspection and found : work may	

INSPECTION RESULT

		Name	Sign	Date	Time	Approval Status	Please Tick if Not Attend
Organisation							
Contractor Engineer		Mohamed Sayed		11-12-2022		A AWC-R	
Contractor QA/QC	XYZ						
	Spectrum						
GARB*							
Employers Representative		Abdellatif Amin		12-12-22		A	

* Alignment: Bridge: Culvert Only

File Name : E.R. Universal IR Form Rev H

Instructions for Use:

☐ The Contractor should continue work using their CHECKLIST of inspection items progressively

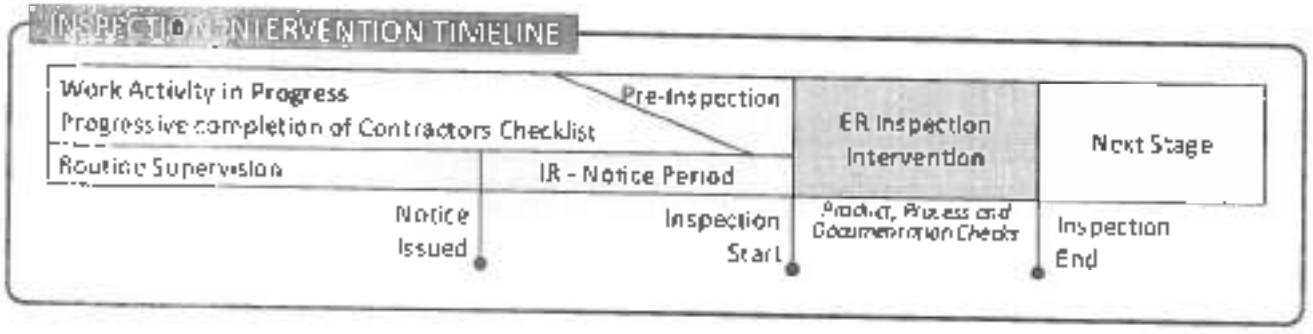
☐ The Contractor should do their own INTERNAL pre-inspection and correct any minor defects before final inspection and if necessary, advise Employer's Representative (ER) of possible delay to arrange correction. Contractor should update their CHECKLIST and their own INTERNAL Comments sheet to show the inspection is satisfactory completed.

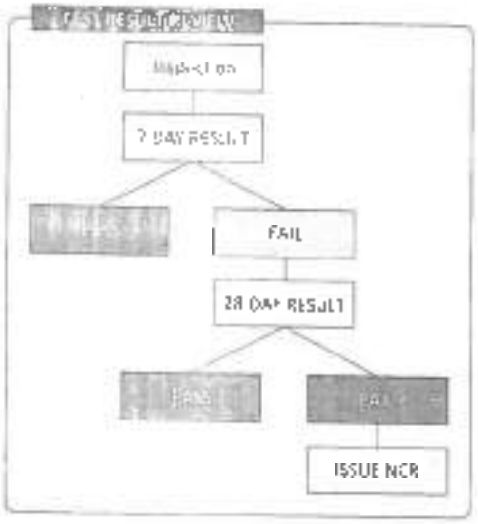
☐ The Contractor Engineer and their QA/QC team should sign the UIR Form before ER inspection. If the work is not ready, they should delay the inspection and not sign the UIR. Comments at this stage are not expected although eg: minor cleaning prior to concrete pour will be allowed

☐ The ER shall attend as indicated and check the Contractors supporting Drawings, Test results, Per-inspection signed sheets and check dimensions, alignment, workmanship, etc. If satisfied ER shall sign the UIR Code A = Approved, or shall add relevant comments and add AWC = Approved with Comments and the next stage may progress when the comments have been resolved, or shall add R = Rejected as the work is not satisfactory and must be corrected and reinspected

AWC or R will require a new UIR form to be issued and the inspection process will re-start at a new date/time

☐ When Approved without comments, the next stage of work may progress





Inspection COMMENTS must be factual

Delayed test results may apply to every discipline at an inspection. When available, may require Inspection records to be reviewed for previous work

It is known that tests results taken during inspection will be available at some date in the future (eg 7 and 28 Days).

The purpose of the UIR is to verify the work stage is ready to progress now. If the Work is ready to progress at the Inspection, then it must be Approved and allowed to progress without comment. This is to avoid returning to old AWC records and revise to A.

Review of Test Results is just another stage of the work activity, and result reviews have their own lifecycle. The test results shall be assessed when available, and if they fail to meet the necessary compliance requirements, an NCR shall be issued to track the correction process.

وزارة النقل

مشروع إنشاء القطار السريع
القطاع (طريق 05) من المحطة 0+000 إلى المحطة 0+400

Inspection Request

طلب رقم	صادر
124	

التاريخ	
2022 / /	

- مرفق الرفع المساحي (عدد ورقة)

تسليم طبقة (-0.25) من المحطة 0+000 الى المحطة 0+100 (LEFT Side)

مهندس المكتب الفني	مدير المشروع

ملاحظات الاعتماد:

معتمد [A]	يعتمد مع بعض الملاحظات [B]	يعاد التقديم بعد تنفيذ الملاحظات [C]	مرفوض [D]
☐	☐	☐	☐

شركة فسكاد الهندسية للطرق والكباري والصرف الصحي	استشاري المراقبة (مكتب E.C)	استشاري هيئة الطرق والكباري (مكتب استشاري)
الاسم:	الاسم:	الاسم:
التوقيع:	التوقيع:	التوقيع:
التاريخ:	التاريخ:	التاريخ:

للعرض
شركة فسكاد الهندسية للطرق والصرف الصحي
التاريخ: 2022/12/07

على مسئولية المقاول
لحين الاعتماد

SPECTRUM

الشركة الهندسية

Station	Northing	Easting
0+000.00	798305.046	682387.579
0+020.00	798307.891	682407.378
0+040.00	798310.736	682427.177
0+060.00	798313.580	682446.969
0+080.00	798316.425	682466.766
0+100.00	798319.270	682486.562
0+120.00	798322.114	682506.359
0+140.00	798324.959	682526.156
0+160.00	798327.804	682545.952
0+180.00	798330.648	682565.749
0+200.00	798333.493	682585.545
0+220.00	798336.338	682605.342
0+240.00	798339.182	682625.139
0+260.00	798342.027	682644.936
0+280.00	798344.872	682664.732
0+300.00	798347.716	682684.529
0+320.00	798350.561	682704.326
0+340.00	798353.406	682724.122
0+360.00	798356.250	682743.919
0+380.00	798359.095	682763.716
0+400.00	798361.940	682783.512

الهيئة العامة
للطرق و الكباري و النقل البري
(GARBLT)

وزارة النقل

MASTER SHEET FOR RD-06 (ZONE 0+000 TO 0+400)

FILL

STATION		0+000	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160	0+180	0+200	0+220	0+240	0+260	0+280	0+300	0+320	0+340	0+360	0+380	0+400
FERMA LEVEL		424.01	423.82	423.63	423.44	423.24	423.05	422.85	422.65	422.47	422.28	422.08	421.89	421.70	421.50	421.31	421.12	420.92	420.73	420.54	420.34	420.15
Replacement LEVEL		423.01	422.82	422.63	422.43	422.24	422.05	421.85	421.66	421.54	421.74	421.62	421.09	420.89	420.68	420.66	420.50	420.32	420.20	420.08	420.00	419.70
Difference		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.93	0.53	0.46	0.80	0.81	0.82	0.65	0.62	0.60	0.53	0.46	0.34	0.45
	0	424.012	423.819	423.626	423.433	423.24	423.047	422.854	422.661	422.468	422.275	422.082	421.889	421.696	421.503	421.31	421.117	420.924	420.731	420.538	420.345	420.152
	0.25	423.762	423.569	423.376	423.183	422.99	422.797	422.604	422.411	422.218	422.025	421.832	421.639	421.446	421.253	421.06	420.867	420.674	420.481	420.288	420.095	419.902
	0.5	423.512	423.319	423.126	422.933	422.74	422.547	422.354	422.161	421.968	421.775		421.389	421.196	421.003	420.81	420.617	420.424	420.231			
	0.75	423.262	423.069	422.876	422.683	422.49	422.297	422.104	421.911	421.718			421.139	420.946	420.753							
	1	423.012	422.819	422.626	422.433	422.24	422.047	421.854	421.661													

فطاع الشركة الهندسية للطرق والكباري والصرف الصحي

طبقة : -0.25

ST	Left									C.L	Right								
	SIDE WALK		ROAD					SIDE WALK			SIDE WALK		ROAD					SIDE WALK	
	17.70	16.0	14.30	13.0	10.0	7.0	4.0	3.5	2.0		2.0	3.5	4.0	7.0	10.0	13.0	14.30	16.0	17.70
0+000	423.60	423.60	423.60	423.62	423.66	423.71	423.75	423.76	423.76	423.76	423.76	423.76	423.75	423.71	423.66	423.62	423.60	423.60	423.60
0+025	423.57	423.57	423.57	423.55	423.52	423.52	423.56	423.57	423.57	423.57	423.57	423.57	423.56	423.52	423.47	423.44	423.43	423.41	423.41
0+050	423.32	423.32	423.32	423.35	423.38	423.37	423.37	423.38	423.38	423.38	423.38	423.38	423.37	423.32	423.28	423.25	423.22	423.22	423.22
0+075	423.02	423.02	423.02	423.04	423.08	423.08	423.08	423.08	423.08	423.08	423.08	423.08	423.08	423.08	423.09	423.06	423.02	423.02	423.02
0+100	422.83	422.83	422.83	422.85	422.88	422.88	422.88	422.88	422.88	422.88	422.88	422.88	422.88	422.88	422.89	422.85	422.83	422.83	422.83
0+125	422.64	422.64	422.64	422.66	422.70	422.75	422.79	422.80	422.80	422.80	422.80	422.80	422.79	422.75	422.70	422.66	422.64	422.64	422.64
0+150	422.45	422.45	422.45	422.46	422.51	422.55	422.60	422.61	422.61	422.61	422.61	422.61	422.60	422.55	422.51	422.46	422.45	422.45	422.45
0+175	422.25	422.25	422.25	422.23	422.32	422.36	422.41	422.43	422.43	422.43	422.43	422.43	422.41	422.36	422.32	422.23	422.25	422.25	422.25
0+200	422.06	422.06	422.06	422.08	422.12	422.17	422.21	422.22	422.22	422.22	422.22	422.22	422.21	422.17	422.13	422.08	422.06	422.06	422.06
0+225	421.87	421.87	421.87	421.89	421.93	421.98	422.02	422.03	422.03	422.03	422.03	422.03	422.02	421.98	421.93	421.89	421.87	421.87	421.87
0+250	421.68	421.68	421.68	421.69	421.73	421.78	421.83	421.84	421.84	421.84	421.84	421.84	421.83	421.78	421.73	421.69	421.68	421.68	421.68
0+275	421.48	421.48	421.48	421.50	421.53	421.58	421.64	421.65	421.65	421.65	421.65	421.65	421.64	421.59	421.55	421.50	421.48	421.48	421.48
0+300	421.29	421.29	421.29	421.31	421.33	421.40	421.44	421.45	421.45	421.45	421.45	421.45	421.44	421.40	421.35	421.31	421.29	421.29	421.29
0+325	421.10	421.10	421.10	421.12	421.16	421.21	421.25	421.26	421.26	421.26	421.26	421.26	421.25	421.23	421.16	421.12	421.10	421.10	421.10
0+350	420.91	420.91	420.91	420.92	420.97	421.01	421.06	421.07	421.07	421.07	421.07	421.07	421.06	421.03	420.97	420.92	420.91	420.91	420.91
0+375	420.71	420.71	420.71	420.73	420.78	420.82	420.87	420.88	420.88	420.88	420.88	420.88	420.87	420.83	420.78	420.73	420.71	420.71	420.71
0+400	420.52	420.52	420.52	420.54	420.58	420.63	420.67	420.68	420.68	420.68	420.68	420.68	420.67	420.63	420.58	420.54	420.52	420.52	420.52

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E
3 ABD EL-KAWY AHMED St , MOHANDESEEN - GIZA
Tel. : 3448413 - Fax. : 3031719

Project: Electric Express Train.15 May Sector

Client : الشركة الهندسية

File No.: 4800/S

Date 12/12/2022

Density of Soil In-Place By Sand-Cone Method (ASTM D-1556)

Date of testing	*11-12-22*
Location	*000+000 to 000+100*
Description Of Tested Material	*Stone , Gravel & Sand.*
Condition of the test	*Tested as found in the existing moisture content.*

Station	*Level (m)*	*Bulk Density (gm/cm3)*	*Moisture Content (%)*	*Insitu Dry Density (gm/cm3)*	*Max Dry Density (gm/cm3)*	*Relative Compaction (%)*
000+050	*-0.25*	*2.101*	*6.3*	*1.977*	*2.040*	*96.9*

Notes:

1- Test location were chosen and identified by the consultant.

2-Maximum Dry Density value was provided by client.

Prepared by : Eng. Rody Yehia

ARDAMAN Split
Egypt Express Train
Project

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.AE

3 ABD EL KAWY AHMED St. , MOHANDESEEN - GIZA
Tel. : 33448413 - Fax. : 33031719

Project: Electric Express Train - 15May Sector ***File No.: 4800/S***

Client: شركة الهندسية ***Date: 06/12/2022***

PARTICLE SIZE ANALYSIS OF SOILS AND MATERIALS FINER THAN # 200 Sieve ASTM D - 422

Sample delivery date: *05/12/2022*
Sample Identification No. : *Sample No. 932*
Source of sample: *St Stock Pile Road 6*
Level (m) : *-*
Classification According to AASHTO: *A-1-b*
Percentage of materials finer than # 200: *16.1%*

Sieve No.	Opening (mm)	Percentage Passing %	
3 in.	75	100.0	
2.5 in.	63.5	100.0	
2 in.	50	100.0	
1.5 in.	38	100.0	
1 in.	25	99.7	
3/4 in.	19	97.9	
1/2 in.	12.5	94.1	
3/8 in.	9.5	90.8	
No. 4	4.75	78.8	
No. 10	2.0	65.3	
No. 40	0.425	40.7	
No. 200	0.075	16.1	

Notes:-

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rody Yehia

ARDAMAN Split
Egypt Express Train Project

Reviewed by : Eng.Osama Moftah

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E

3 ABD EL KAWY AHMED St , MOHANDESEEN - GIZA
Tel.: 33448413 - Fax.: 33031719

Project: Electric Express Train - 15May Sector ***File No.: 4800/S***

Client: شركة الهندسية ***Date: 06/12/2022***

LIQUID LIMIT , PLASTIC LIMIT , AND PLASTICITY INDEX OF SOILS ACCORDING TO ASTM D4318

Sample delivery date: ***05/12/2022***

Sample Identification No. : ***Sample No. 932***

Source of sample: ***St Stock Pile Road 6***

Level (m) : _

Sample Identification No.	*Liquid Limit (%)*	*Plastic Limit (%)*	*Plasticity Index (%)*
Sample No. 932	*25.1*	*19.2*	*5.9*

- Notes:

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rody Yehia

ARDAMAN Split
Egypt Express Train Project

Reviewed by : Eng.Osama Mofiah

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E

3 ABD EL-KAWY AHMED ST., MOHANDESEEN - GIZA
TEL.: 33448413 - FAX.: 33031719

Project: Electric Express Train - 15May Sector — *File No.: 4800/S*

Client: شركة الهندسية — *Date: 06/12/2022*

MOISTURE DENSITY RELATIONSHIP OF SOIL ACCORDING TO ASTM D 1557

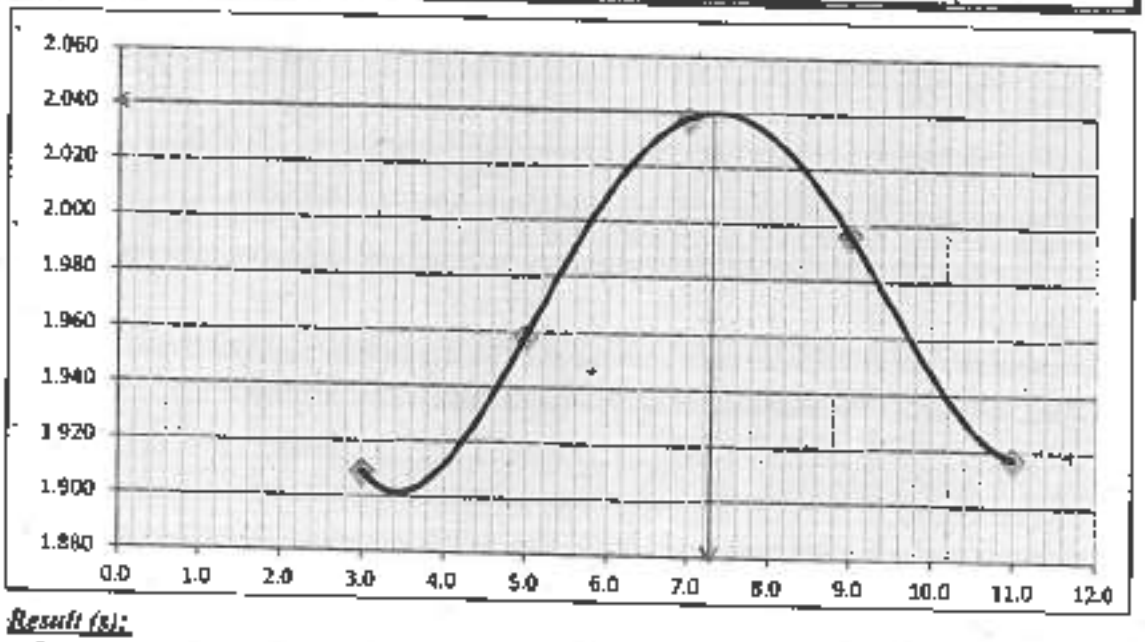
Sample delivery date: 05/12/2022

Sample Identification No. : Sample No. 932

Source of sample: St Stock Pile Road 6

Level (m) : –

Wet Unit Weight, gm/cm³	1.966	2.056	2.180	2.176	2.128
Water Content, %	3.0	5.0	7.0	9.0	11.0
Dry Unit Weight, gm/cm³	1.909	1.958	2.037	1.996	1.917



Result (s):

1- *Maximum dry density* = 2.040 t/m³
2- *Optimum moisture content* = 7.30 %

Note (s):

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rady Tebia

ARDAMAN Split
Egypt Express Train Project

Reviewed by : Eng.Osama Moftah

ARDAMAN *Split*

MATERIALS AND CONSTTRUCTION TESTING, SAE
3 ABD EL-KAWY AHMED St., MOHANDEESEEN - GIZA (Tel. : 33448413 - Mobile : 01006038248)

Project: Electric Express Train - 15 May Sector	File No.	4800/S
	Date	06/12/2022

CHEMICAL ANALYSIS REPORT

Letter Ref. No.	ARD-CH	50	Testing Date :6/12/2022

Type *of* Tested Material	SOIL (Ref.: AASHTO T-267)
Delivery Date	05/12/2022

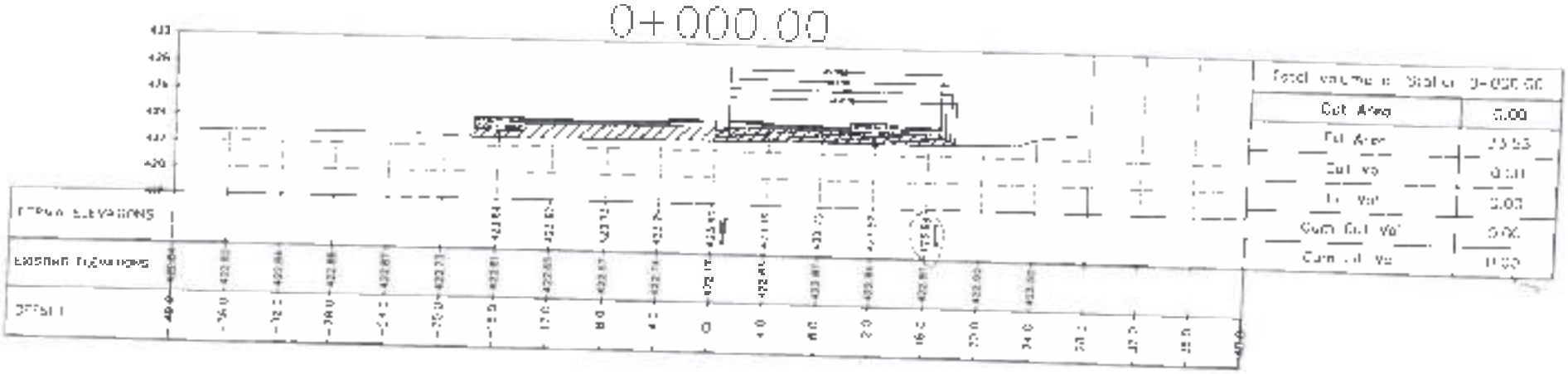
Sample Code No.	Source	Level	Station	Organic Matter Content, %
932	شركة الهندسية	Stockpile	Road-6	0.562

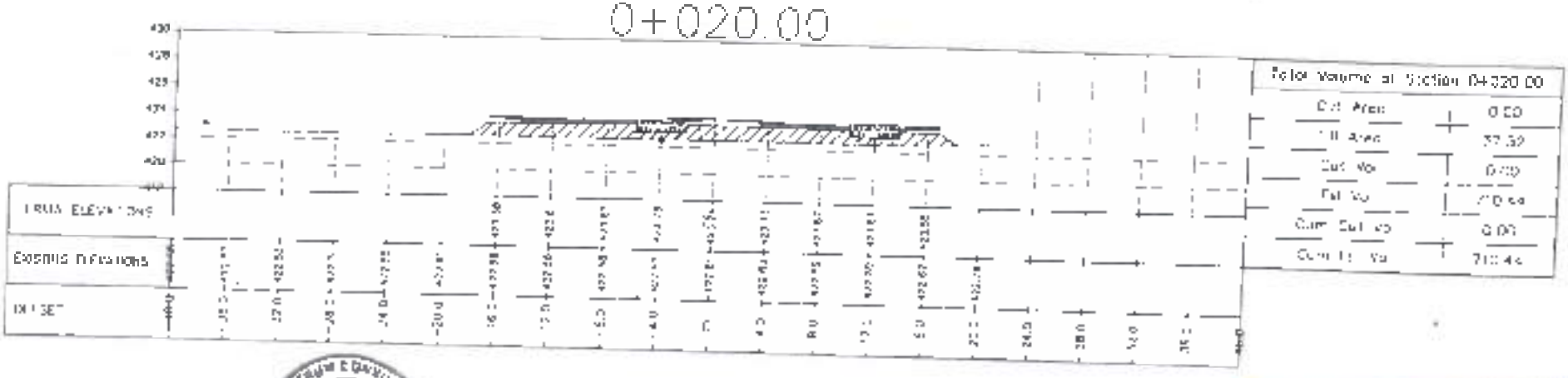
Criteria *of* Acceptance	1.0%

Note :	*The Samples were found Complying with the Project Specs.*

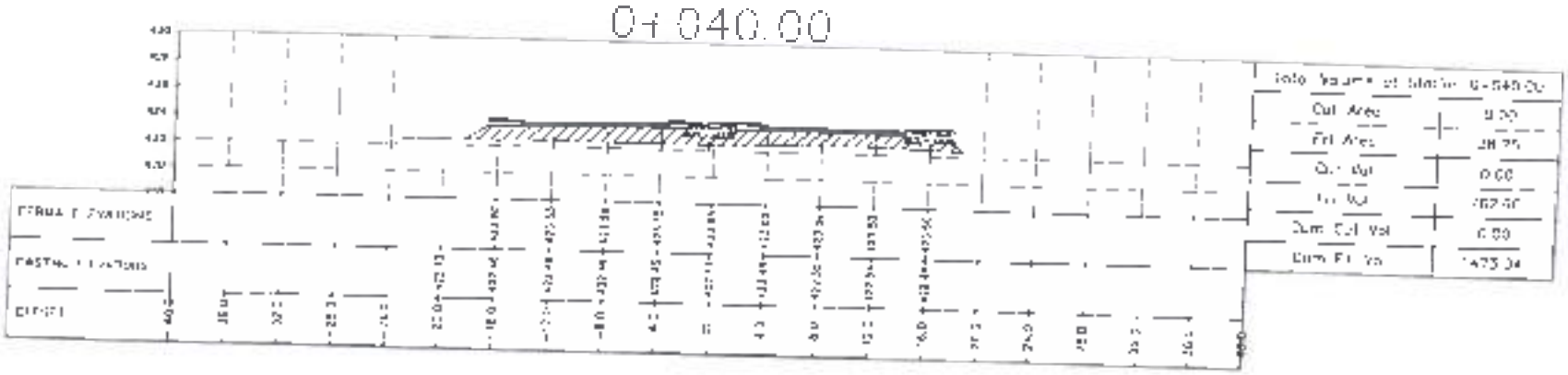
Prepared By: Chem/ Mina Ayman

ARDAMAN Split
Egypt Express Train
Project





الشركة الهندسية
للطرق والكباري والصرف الصحي
ب ض . ٥٧٧ / ٦٤٨ / ٥٧٤
س . ت ١٠٧٦٥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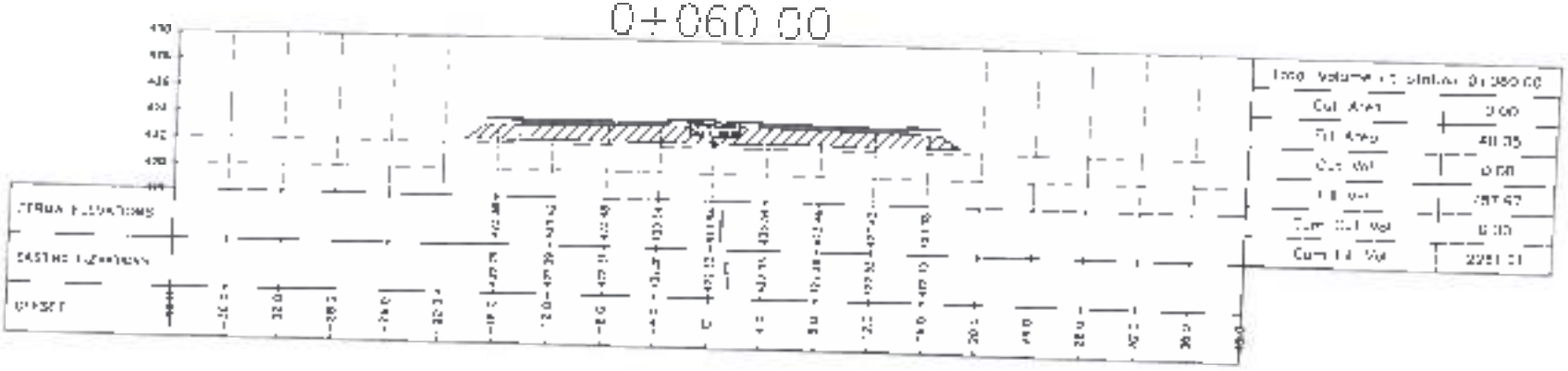
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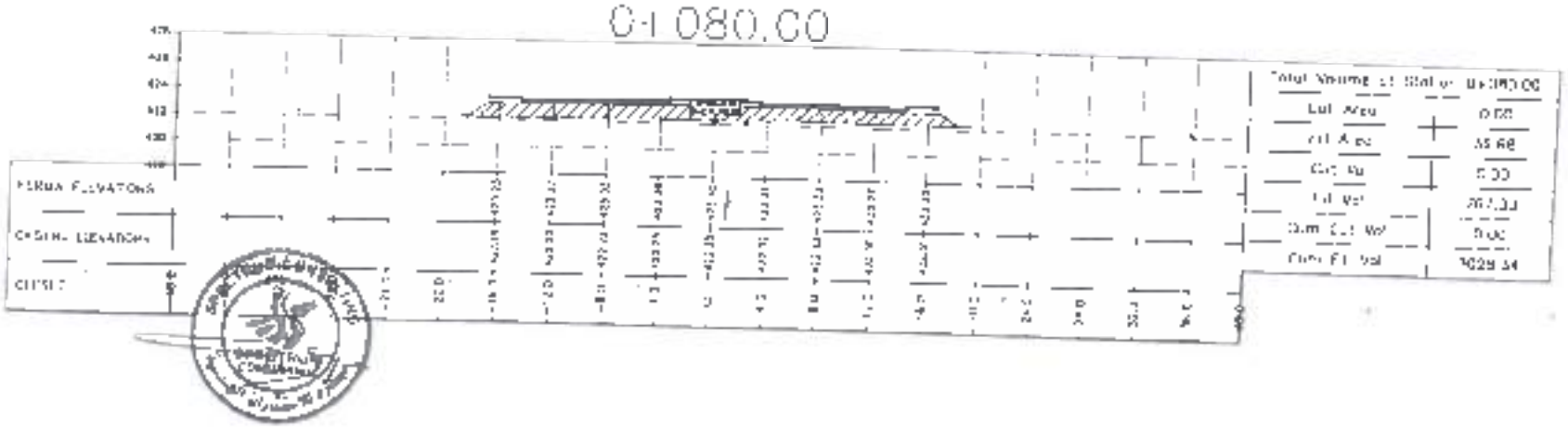
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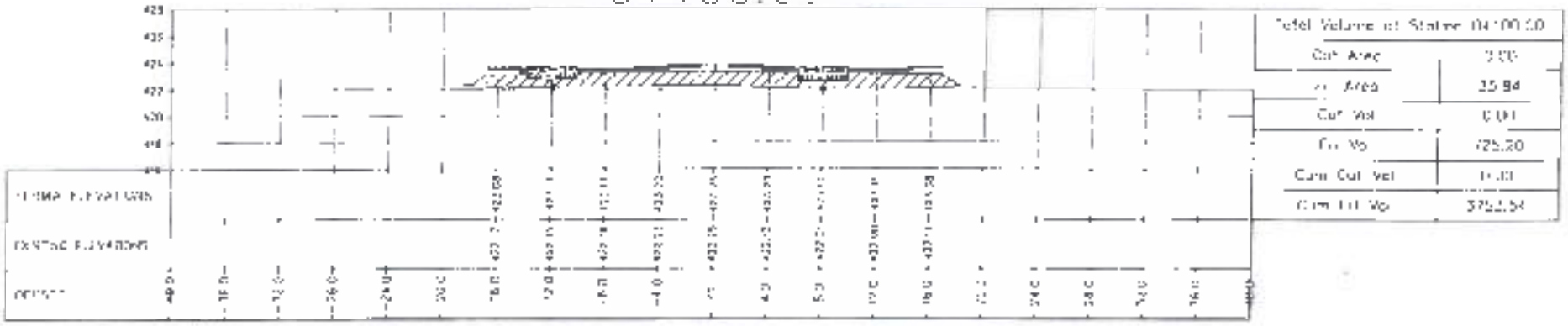

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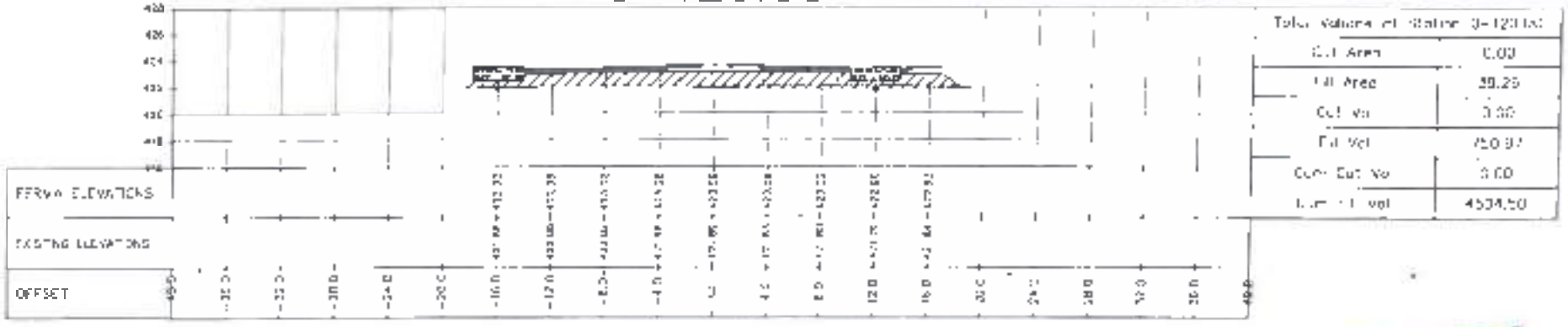
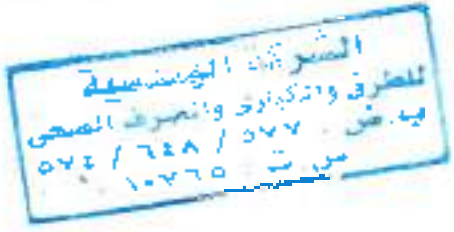




UNIVERSAL INSPECTION REQUEST

RECEIPT of NOTIFICATION - Minimum Notice Period not less than 24 Hours

The Work described below will be complete and ready for inspection at planned time shown

Contractor Company		Designer Company	Spectrum
Issued by Contractor	Name: Mohamed Sayed	Sign:	Date: 13-12-2022 Time:
Contractor UIR Reference	15		
Received by ER	Abdel-Wahed Attia (AA Attia)	UIR	C1: E2 C2: C3: DD: MM: YY: HH: MM:

CODE-1 S1 to S21 Station Reference	CODE-2 D1 to S3 Depot Reference	CODE-3 Km XXX . For Kilometer point only	CODE-2 Work Activity	CODE-3 Sub Element of Activity

EXPLANATION OF WORK TO BE INSPECTED

Area	Element	Item
ROAD-06 (0+000 TO 0+400)	FROM ST.(0+100) TO (0+200)	Layer Level (-0.25)

Inspection Description :

(LEFT Side)

INSPECTION DETAILS The Following will be ready at the Planned Inspection Time

Planned Inspection Date	Planned Inspection Time

COMPLIANCE EVIDENCE Must be included as appropriate

Checklist Attached ☐	Test Results Attached ☐	Calibration Attached ☐	Other as Indicated ☐

Drawing Reference	ITP Reference	MS Reference
Other Attachments	Surveying sheets (Master sheets +cross sections + width sheet)	
Plan profile Rev	NA	NA

Comments by :GARB survey Consultant (XYZ)	Comments by: General Consultant (SYSTRA)
Surveying works (levels-Coords-width) Are inspection and found : work may :	

INSPECTION RESULT

	Name	Sign	Date	Time	Approval Status A-AWC-R	Please Tick If Not Attend
Organisation: Contractor Engineer	Mohamed Sayed		13-12-2022		A	
Contractor QA/QC: XYZ						
Spectrum						
GARB*						
Employers Representative	Abdel-Wahed Attia	(AA Attia)	14-12-22		A	

* Alignment Bridges Culvert Only

Instructions for Use:

☐ The Contractor should continue work using their CHECKLIST of inspection items progressively

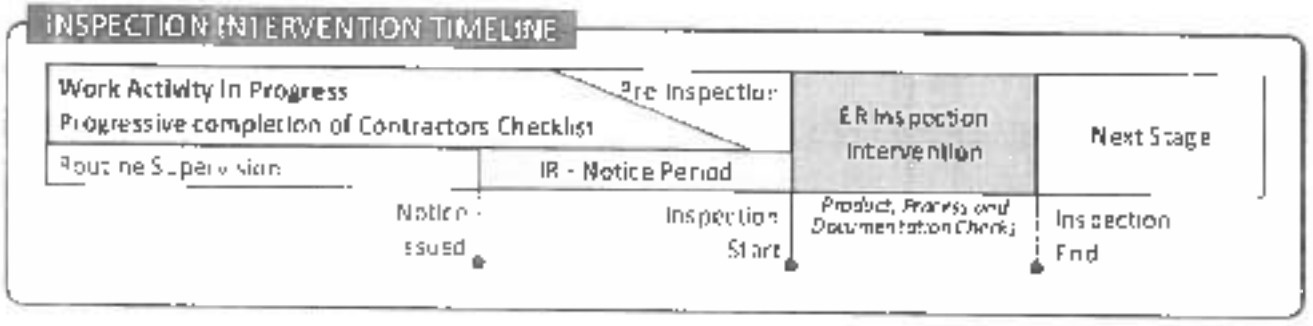
☐ The Contractor should do their own INTERNAL pre-inspection and correct any minor defects before final inspection and if necessary, advise Employer's Representative (ER) of possible delay to arrange correction. Contractor should update their CHECKLIST and their own INTERNAL Comments sheet to show the inspection is satisfactory completed.

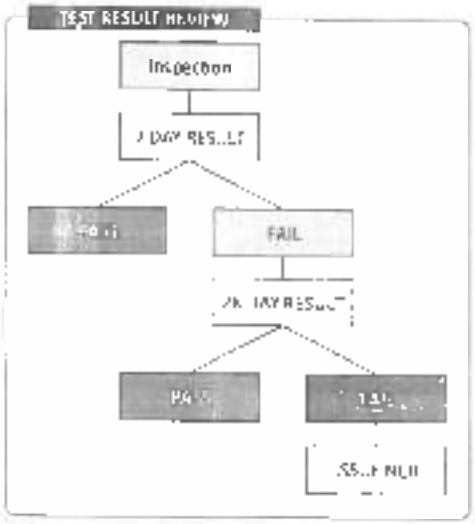
☐ The Contractor Engineer and their QA/QC team should sign the UIR Form before ER inspection. If the work is not ready, they should delay the inspection and not sign the UIR. Comments at this stage are not expected although eg: minor cleaning prior to concrete pour will be allowed

☐ The ER shall attend as indicated and check the Contractors supporting Drawings, Test results, Per-inspection signed sheets and check dimensions, alignment, workmanship, etc. If satisfied ER shall sign the UIR Code A = Approved, or shall add relevant comments and add AWC = Approved with Comments and the next stage may progress when the comments have been resolved, or shall add R = Rejected as the work is not satisfactory and must be corrected and reinspected

AWC or R will require a new UIR Form to be issued and the inspection process will re-start at a new date/time

☐ When Approved without comments, the next stage of work may progress





Inspection COMMENTS must be factual

Delayed test results may apply to every discipline at an inspection When available, may require inspection records to be reviewed for previous work.

It is known that tests results taken during inspection will be available at some date in the future (eg 7 and 28 Days).

The purpose of the UIR is to verify the work stage is ready to progress now. If the Work is ready to progress at the Inspection, then it must be Approved and allowed to progress without comment. This is to avoid returning to old AWC records and revise to A.

Review of Test Results is just another stage of the work activity, and result reviews have their own lifecycle. The test results shall be assessed when available, and if they fail to meet the necessary compliance requirements, an NCR shall be issued to track the correction process

وزارة النقل

مشروع إنشاء القطار السريع
القطاع (طريق 06) من المحطة 0+000 إلى المحطة 01400

Inspection Request

طلب رقم	صادر
15	

التاريخ	/ / 2022

- مرفق المرفع المساحي (عدد ورقة)

تسليم طبقة (روكـ...) من محطة 0+100 الى المحطة 0+200 (LEFT Side)

مهندس المكتب الفني	مدير المشروع

ملاحظات الاعتماد:

يعتمد (ك)	يعتمد من تلافي الملاحظات (ط)	يعتمد مع تلافي الملاحظات وعدم التنفيذ (ت)	مرفوض (ل)
☐	☐	☐	☐

شركة الإنشاءات الهندسية للطرق والكباري والصرف الصحي	الجهة المستلمة (مكتب الرقابة)	المقاول من الباطن للطرق والكباري (المكتب المختص)
الاسم:	الاسم:	الاسم:
التوقيع:	التوقيع:	التوقيع:
التاريخ:	التاريخ:	التاريخ:

SPECTRUM

الشركة الهندسية

Station	Northing	Easting
0+000.00	798305.046	682387.579
0+020.00	798307.891	682407.376
0+040.00	798310.736	682427.172
0+060.00	798313.580	682446.969
0+080.00	798316.425	682466.766
0+100.00	798319.270	682486.562
0+120.00	798322.114	682506.359
0+140.00	798324.959	682526.156
0+160.00	798327.804	682545.952
0+180.00	798330.648	682565.749
0+200.00	798333.493	682585.546
0+220.00	798336.338	682605.342
0+240.00	798339.182	682625.139
0+260.00	798342.027	682644.936
0+280.00	798344.872	682664.732
0+300.00	798347.716	682684.529
0+320.00	798350.561	682704.326
0+340.00	798353.406	682724.122
0+360.00	798356.250	682743.919
0+380.00	798359.095	682763.716
0+400.00	798361.940	682783.512

الهيئة العامة
للطرق و الكباري و النقل البري
(GARBLT)

وزارة النقل

MASTER SHEET FOR RD-06 (ZONE 0+000 TO 0+400)

FILL

STATION		0+000	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160	0+180	0+200	0+220	0+240	0+260	0+280	0+300	0+320	0+340	0+360	0+380	0+400
FERMA LEVEL		424.01	423.82	423.63	423.43	423.24	423.05	422.85	422.66	422.47	422.28	422.08	421.89	421.70	421.50	421.31	421.12	420.92	420.73	420.54	420.34	420.15
Replacement LEVEL		423.01	422.82	422.63	422.43	422.24	422.05	421.85	421.66	421.54	421.74	421.62	421.09	420.89	420.68	420.66	420.50	420.32	420.20	420.08	420.00	419.70
Difference		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.93	0.53	0.46	0.80	0.81	0.82	0.65	0.62	0.60	0.53	0.46	0.34	0.45
	0	424.012	423.819	423.626	423.433	423.24	423.047	422.854	422.661	422.068	422.275	422.082	421.889	421.696	421.503	421.31	421.117	420.924	420.731	420.538	420.345	420.152
	0.25	423.762	423.569	423.376	423.183	422.99	422.797	422.604	422.411	422.218	422.025	421.832	421.639	421.446	421.253	421.06	420.867	420.674	420.481	420.288	420.095	419.902
	0.5	423.512	423.319	423.126	422.933	422.74	422.547	422.354	422.161	421.968	421.775		421.389	421.196	421.003	420.81	420.617	420.424	420.231			
	0.75	423.262	423.069	422.876	422.683	422.49	422.297	422.104	421.911	421.718			421.139	420.946	420.753							
	1	423.012	422.819	422.626	422.433	422.24	422.047	421.854	421.661													

قطاع الشركة الهندسية للطرق والكباري والصرف الصحي

طبقة : -0.25

ST	Left									C.L	Right								
	SIDE WALK		ROAD					SIDE WALK			SIDE WALK		ROAD					SIDE WALK	
	17.70	16.0	14.30	13.0	10.3	7.0	4.0	1.5	0.0		0.0	1.5	4.0	7.0	10.0	13.0	14.30	16.0	17.70
0+000	423.60	423.60	423.60	423.63	423.66	423.71	423.77	423.76	423.76	423.76	423.76	423.76	423.75	423.75	423.65	423.63	423.60	423.60	423.60
0+025	423.43	423.43	423.43	423.43	423.47	423.52	423.56	423.57	423.57	423.57	423.57	423.57	423.56	423.53	423.47	423.43	423.41	423.41	423.43
0+050	423.27	423.23	423.29	423.23	423.38	423.32	423.37	423.36	423.36	423.38	423.58	423.36	423.37	423.32	423.28	423.23	423.22	423.22	423.22
0+075	423.02	423.02	423.02	423.03	423.09	423.13	423.18	423.18	423.18	423.18	423.18	423.16	423.13	423.13	423.09	423.04	423.00	423.03	423.03
0+100	422.83	422.83	422.83	422.83	422.89	422.94	422.98	422.99	422.99	422.99	422.99	422.99	422.98	422.93	422.89	422.85	422.81	422.81	422.83
0+125	422.64	422.64	422.64	422.66	422.75	422.75	422.79	422.80	422.80	422.80	422.80	422.80	422.79	422.75	422.70	422.66	422.64	422.64	422.64
0+150	422.45	422.45	422.45	422.46	422.51	422.55	422.60	422.61	422.61	422.61	422.60	422.61	422.50	422.55	422.53	422.46	422.45	422.45	422.45
0+175	422.25	422.25	422.25	422.23	422.32	422.36	422.41	422.42	422.42	422.42	422.42	422.42	422.43	422.31	422.32	422.27	422.25	422.25	422.25
0+200	422.06	422.06	422.05	422.04	422.11	422.17	422.21	422.22	422.22	422.22	422.22	422.22	422.23	422.17	422.12	422.08	422.06	422.06	422.06
0+225	421.87	421.87	421.87	421.89	421.93	421.98	422.03	422.03	422.03	422.03	422.03	422.03	422.02	421.98	421.93	421.89	421.87	421.87	421.87
0+250	421.68	421.68	421.68	421.69	421.74	421.78	421.81	421.84	421.84	421.84	421.86	421.84	421.83	421.78	421.74	421.69	421.68	421.68	421.68
0+275	421.48	421.48	421.48	421.50	421.55	421.59	421.64	421.65	421.65	421.65	421.65	421.65	421.63	421.59	421.55	421.52	421.48	421.48	421.48
0+300	421.29	421.29	421.29	421.33	421.35	421.40	421.44	421.45	421.45	421.45	421.45	421.45	421.44	421.40	421.35	421.31	421.29	421.29	421.29
0+325	421.10	421.10	421.10	421.13	421.16	421.21	421.25	421.26	421.26	421.26	421.26	421.25	421.25	421.21	421.16	421.12	421.10	421.10	421.10
0+350	420.91	420.91	420.91	420.93	420.97	421.01	421.06	421.07	421.07	421.07	421.07	421.07	421.06	421.01	420.97	420.92	420.91	420.93	420.93
0+375	420.71	420.71	420.71	420.73	420.78	420.82	420.87	420.88	420.88	420.88	420.88	420.88	420.87	420.82	420.78	420.73	420.71	420.71	420.71
0+400	420.52	420.52	420.52	420.54	420.58	420.63	420.67	420.68	420.68	420.68	420.68	420.68	420.67	420.63	420.58	420.54	420.52	420.52	420.52

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E
3 ABD EL-KAWY AHMED St , MOHANDEESEEN - GIZA
Tel. : 3448413 - Fax. : 3031719

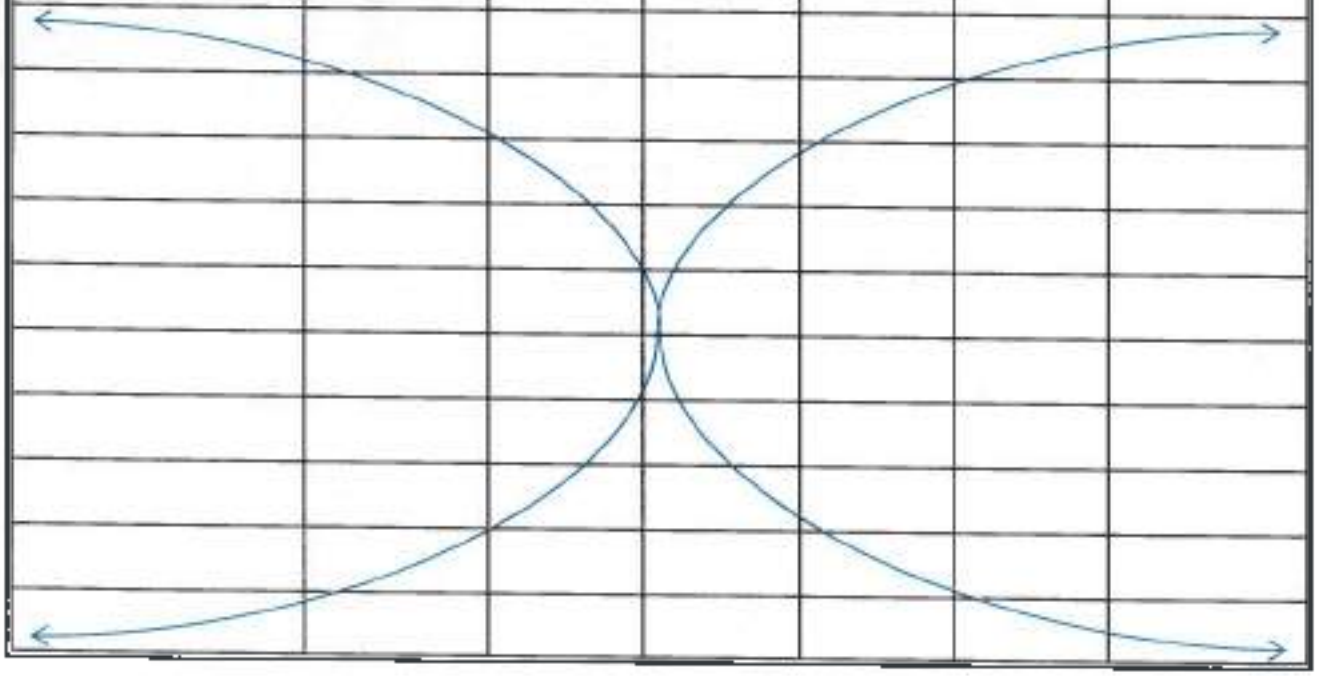
Project: Electric Express Train.15 May Sector — *File No.: 4800/S*

Client : الشركة الهندسية — *Date 14/12/2022*

Density of Soil In-Place By Sand-Cone Method (ASTM D-1556)

Date of testing	*13-12-22*
Location	*000+100 to 000+200*
Description Of Tested Material	*Stone . Gravel & Sand.*
Condition of the test	*Tested as found in the existing moisture content.*

Station	*Level (m)*	*Bulk Density (gm/cm3)*	*Moisture Content (%)*	*Insitu Dry Density (gm/cm3)*	*Max Dry Density (gm/cm3)*	*Relative Compaction (%)*
000+150	*-0.25*	*2.074*	*6.3*	*1.952*	*2.040*	*95.7*



Notes:

1- Test location were chosen and identified by the consultant.

2-Maximum Dry Density value was provided by client.

Prepared by : Eng. Rody Yehia

ARDAMAN Split
Egypt Express Train
Project

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING
S.AE

3 ABD EL KAWY AHMED St. , MOHANDESEEN - GIZA
Tel. : 33448413 - Fax. : 33031719

Project: Electric Express Train - 15May Sector — *File No.: 4800/S*

Client: شركة الهندسية — *Date: 06/12/2022*

PARTICLE SIZE ANALYSIS OF SOILS AND MATERIALS FINER THAN # 200 Sieve ASTM D - 422

Sample delivery date: 05/12/2022
Sample Identification No. : Sample No. 932
Source of sample: St Stock Pile Road 6
Level (m) : _
Classification According to AASHTO: A-1-b
Percentage of materials finer than # 200: 16.1%

Sieve No.	Opening (mm)	Percentage Passing %	
3 in.	75	100.0	
2.5 in.	63.5	100.0	
2 in.	50	100.0	
1.5 in.	38	100.0	
1 in.	25	98.7	
3/4 in.	19	97.9	
1/2 in.	12.5	94.1	
3/8 in.	9.5	90.8	
No. 4	4.75	78.8	
No. 10	2.0	65.3	
No. 40	0.425	40.7	
No. 200	0.075	16.1	

Notes:-

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rody Yehia

ARDAMAN Split
Egypt Express Train Project

Reviewed by : Eng.Osama Moftah

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E

3 ABD EL KAWY AHMED St. , MOHANDESEEN - GIZA
Tel. : 33448413 • Fax. : 33031719

Project: Electric Express Train - 15May Sector — *File No.: 4600/S*

Client: شركة المقاصة — *Date: 06/12/2022*

LIQUID LIMIT , PLASTIC LIMIT , AND PLASTICITY INDEX OF SOILS ACCORDING TO ASTM D4318

Sample delivery date: 05/12/2022

Sample Identification No. : Sample No. 932

Source of sample: St Stock Pile Road 6

Level (m) : _

Sample Identification No.	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)
Sample No. 932	25.1	19.2	5.9

- Notes:

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rody Yehia

ARDAMAN Split
Egypt Express Train Project

Reviewed by : Eng. Osama Moftah

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E

3 ABD EL-KAWY AHMED ST., MOHANDESEEN - GIZA
TEL.: 33448413 - FAX.: 33031719

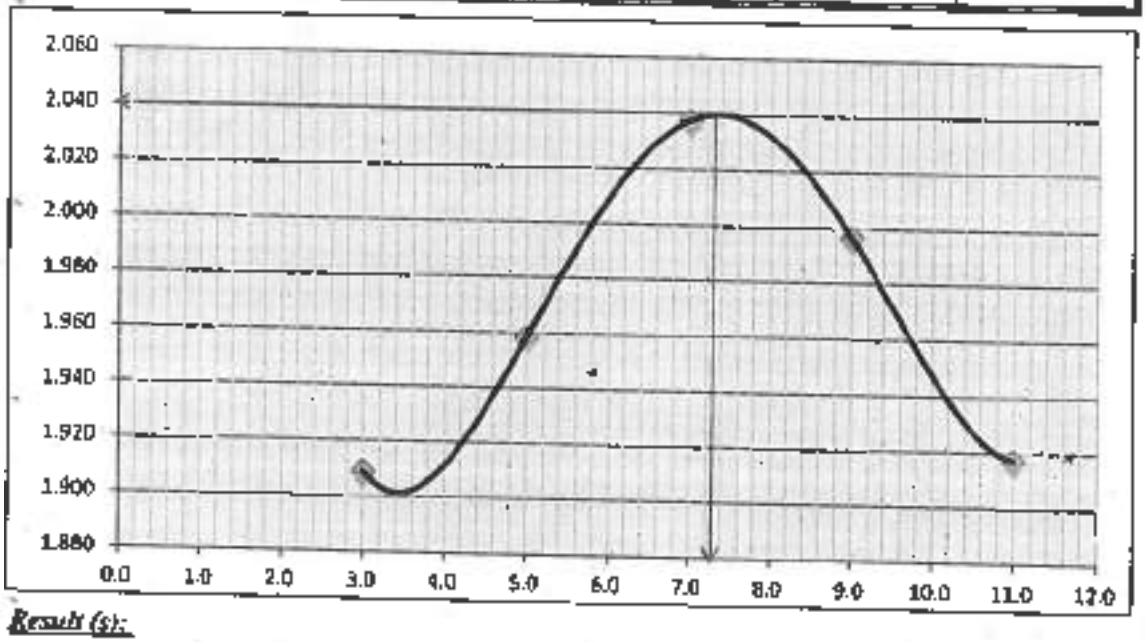
Project: Electric Express Train - 15May Sector *File No.: 4800/S*

Client: شركة الهندسية *Date: 06/12/2022*

MOISTURE DENSITY RELATIONSHIP OF SOIL ACCORDING TO ASTM D 1557

Sample delivery date: 05/12/2022
Sample Identification No. : Sample No. 932
Source of sample: St Stock Pile Road 6
Level (m) : -

Wet Unit Weight, gm/cm³	1.966	2.056	2.180	2.176	2.128
Water Content, %	3.0	5.0	7.0	9.0	11.0
Dry Unit Weight, gm/cm³	1.909	1.958	2.037	1.996	1.917



Result (s):

1- Maximum dry density = 2.040 t/m³
2- Optimum moisture content = 7.30 %

Note (s):

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rady Yehia

ARDAMAN Split
Egypt Express Train Project

Reviewed by : Eng. Osama Moftah

ARDAMAN *Split*

MATERIALS AND CONSTTRUCTION TESTING, SAE
3 ABD EL-KAWY AHMED St., MOHANDEESEEN - GIZA (Tel. : 33448413 - Mobile : 01006030248)

Project: Electric Express Train - 15 May Sector		**File No.**	**4800/S**
		Date	**06/12/2022**

CHEMICAL ANALYSIS REPORT

Letter Ref. No.	**ARD-CH**	**50**	**Testing Date :6/12/2022**

Type *of* Tested Material	**SOIL (Ref.: AASHTO T-267)**
Delivery Date	**05/12/2022**

Sample Code No.	Source	Level	Station	Organic Matter Content, %
932	شركة الهندسية	Stockpile	Road-6	0.562

Criteria *of* Acceptance	**1.0%**

Note :	***The Samples were found Complying with the Project Specs.***

Prepared By: Chem/ Mina Ayman

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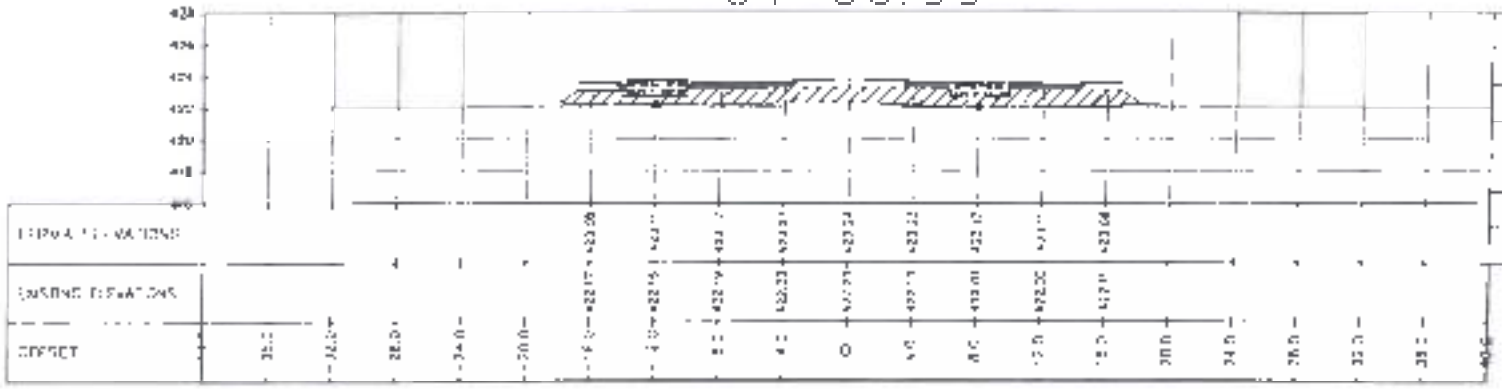
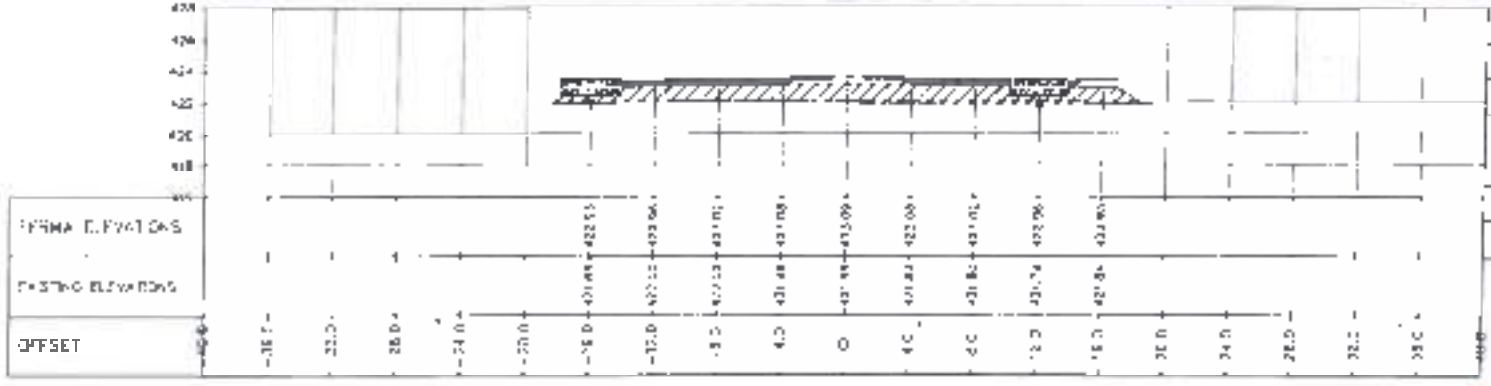
Egypt Express Train
Project

0+100.00



Total Volume at Station 0+100.00	
Cut Area	0.00
Fill Area	55.84
Cut Vol	0.00
Fill Vol	429.20
Cum Cut Vol	0.00
Cum Fill Vol	4751.54

0+120.00

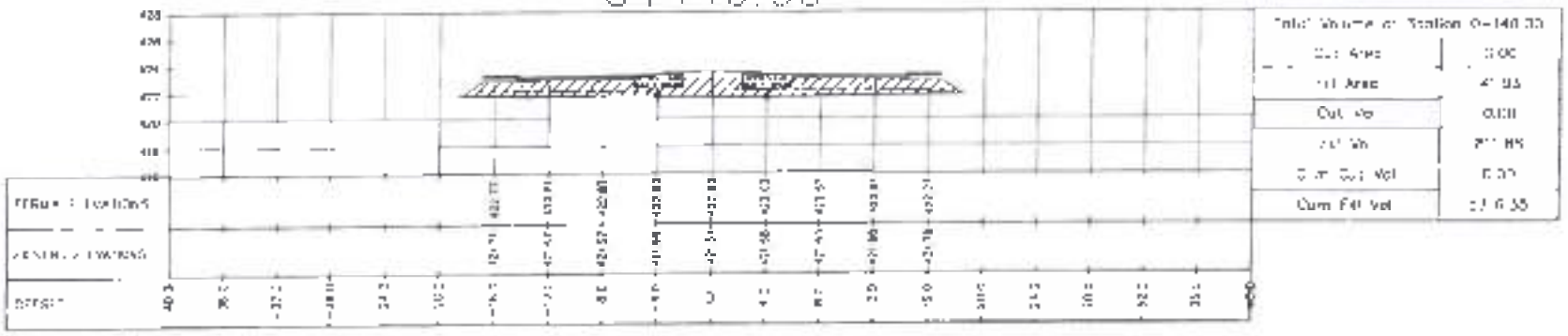


Total Volume at Station 0+120.00	
Cut Area	0.00
Fill Area	39.25
Cut Vol	0.00
Fill Vol	390.51
Cum Cut Vol	0.00
Cum Fill Vol	4594.02

SPECTRUM CONSULTING

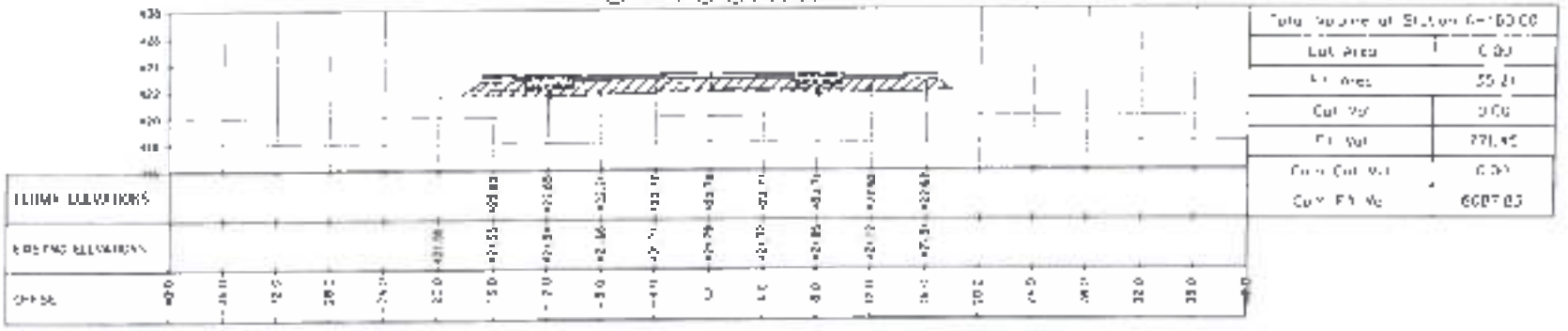
الشركة الهندسية
للطرق والكباري والمرور الصحي
ب.ص : ٥٧٧ / ٦٤٨ / ٥٧٤
١٠٧٦٥

0+140.00



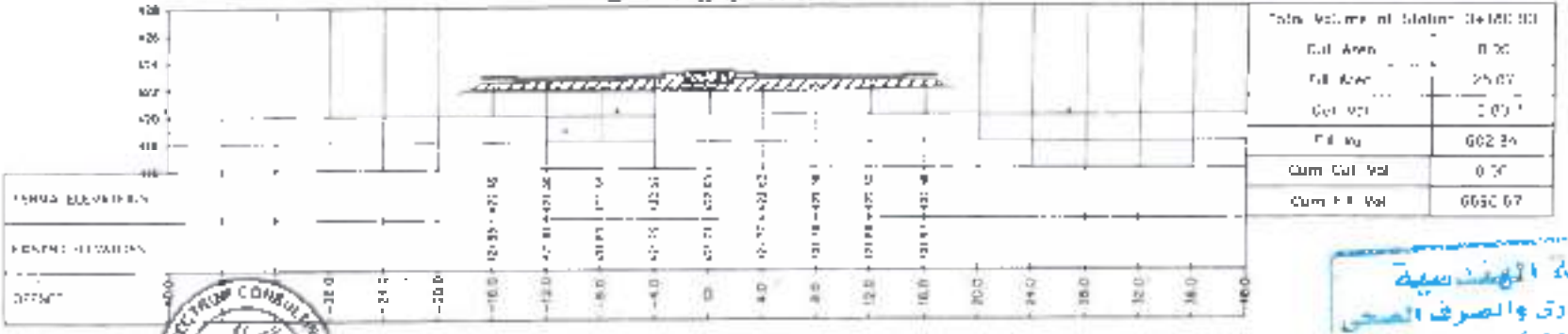
Total Volume at Station 0+140.00	
Cut Area	0.00
Fill Area	47.95
Cut Vol	0.00
Fill Vol	871.85
Cum Cut Vol	0.00
Cum Fill Vol	21635

0+160.00



Total Volume at Station 0+160.00	
Cut Area	0.00
Fill Area	55.21
Cut Vol	0.00
Fill Vol	771.42
Cum Cut Vol	0.00
Cum Fill Vol	6007.03

0+180.00

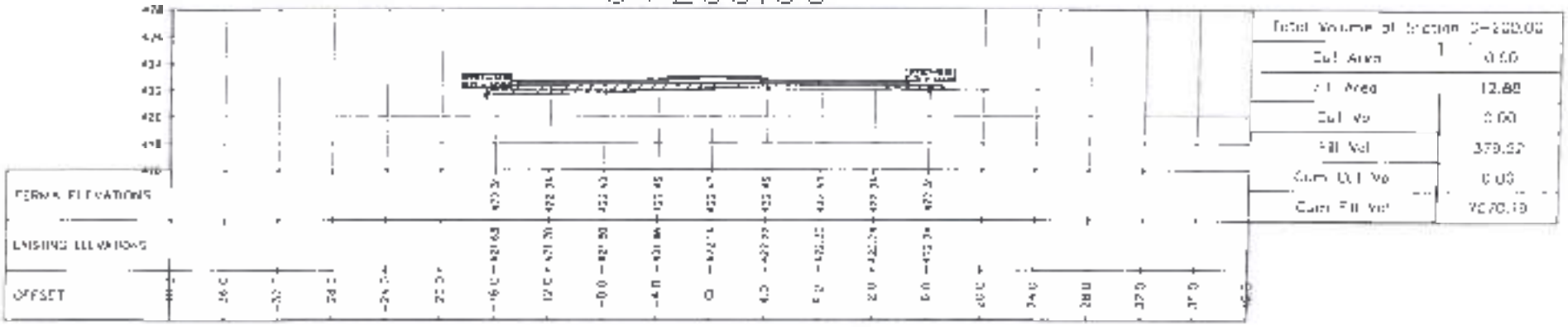


Total Volume at Station 0+180.00	
Cut Area	0.00
Fill Area	25.07
Cut Vol	0.00
Fill Vol	662.84
Cum Cut Vol	0.00
Cum Fill Vol	6669.87

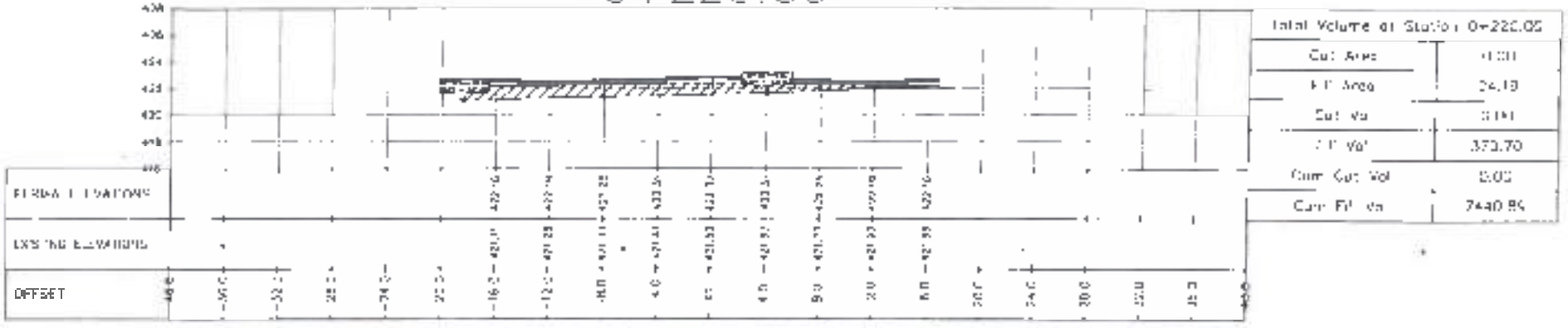
SPECTRUM CONSULTANTS

الشركة الهندسية
للطرق والمباني والصرف الصحي

0+200.00



0+220.00



SPECTRUM CONSULTING

الشركة الهندسية
للطرق والكباري والصرف الصحي
ب.ص ٥٧٢ / ٦٢٨ / ٥٧٤
س.ت ١٠٧٦٠

UNIVERSAL INSPECTION REQUEST

RECEIPT of NOTIFICATION - Minimum Notice Period not less than 24 Hours

The work described below will be complete and ready for inspection at planned time shown

Contractor Company			Designer Company	Spectrum							
Issued by Contractor	Name: Mohamed Sayed	Sign:	Date: 11-12-2022	Time							
Contractor UIR Reference	16										
Received by ER	Abdel-Latif Attia	AAtt (in)	UIR	C1: S2	C2: S-1	C3: (NP Plant)	DD	MM	YY	HH	MM

CODE-1 S1 to S21	CODE-1 D1 to S1 Depot Reference	CODE-1 Rp XXX For Kilometerpoint only	CODE-2 Work Activity	CODE-3 Sub Element of Activity

EXPLANATION OF WORK TO BE INSPECTED

Area	Element	Item
(Add Code of SUB TO G+400)	FROM ST. (0+200) TO (0+400)	Layer Level (-0.25)

Inspection Description: (Left Side)

INSPECTION DETAILS The Following will be ready at the Planned Inspection Time

Planned Inspection Date	Planned Inspection Time

COMPLIANCE EVIDENCE Must be included as appropriate

Check List Attached ☐	Test Results Attached ☐	Calibration Attached ☐	Other as indicated ☐
Drawing Reference	ITP Reference	MS Reference	
Other Attachments:	Surveying sheets (Master sheets +cross sections + width sheet)		
Plan profile Rev	NA	NA	

Comments by: (G.R.) survey Consultant (XYZ)	Comments by: General Consultant (SYSTRA)
Surveying work (Levels-Coords-width) Are inspection and found : work may :	

INSPECTION RESULT

	Name	Sign	Date	Time	Approval Status A AWC R	Please Tick if Not Attend
Organisation						
Contractor Engineer XYZ	Mohamed Sayed		11-12-2022		A	
Contractor QA/QC Spectrum						
GARE*						
Employers Representative	Abdel-Latif Attia	AAtt (in)	13-12-22		A	

* Alignment, Bridges, Culvert Only

Instructions for Use:

☐ The Contractor should continue work using their CHECKLIST of inspection items progressively

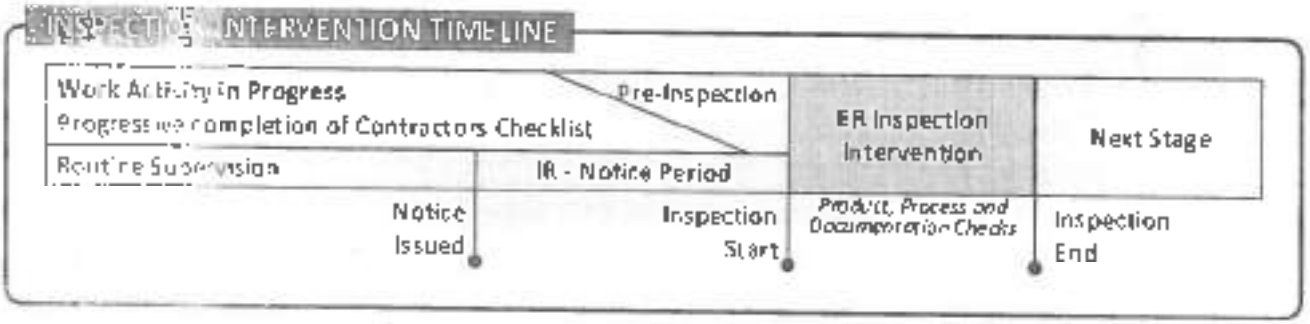
☐ The Contractor should do their own INTERNAL pre-inspection and correct any minor defects before final inspection and if necessary, advise Employer's Representative (ER) of possible delay to arrange correction. Contractor should update their CHECKLIST and their own INTERNAL Comments sheet to show the inspection is satisfactory completed.

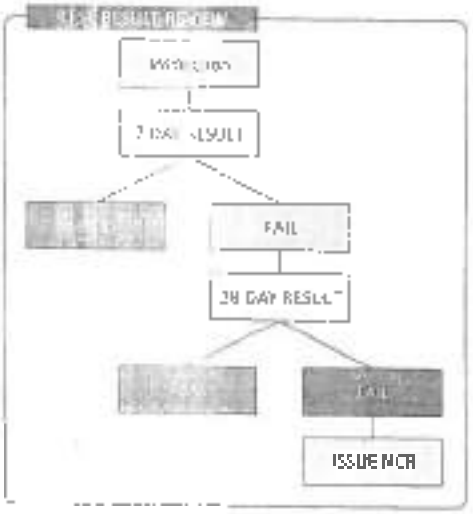
☐ The Contractor Engineer and their QA/QC team should sign the UIR Form before ER inspection. If the work is not ready, they should delay the inspection and not sign the UIR. Comments at this stage are not expected although eg. minor cleaning prior to concrete pour will be allowed

☐ The ER shall attend as indicated and check the Contractors supporting Drawings, Test results, Per-inspection signed sheets and check dimensions, alignment, workmanship, etc. If satisfied ER shall sign the UIR Code A = Approved, or shall add relevant comments and add AWC = Approved with Comments and the next stage may progress when the comments have been resolved, or shall add R = Rejected as the work is not satisfactory and must be corrected and reinspected

AWC or R will require a new UIR Form to be issued and the inspection process will re-start at a new date/time

☐ When Approved without comments, the next stage of work may progress





Inspection COMMENTS must be factual

Delayed test results may apply to every discipline at an inspection. When available, may require inspection records to be reviewed for previous work.

It is known that tests results taken during inspection will be available at some date in the future (eg 7 and 28 Days).

The purpose of the UIR is to verify the work stage is ready to progress now. If the Work is ready to progress at the Inspection, then it must be Approved and allowed to progress without comment. This is to avoid returning to old AWC records and revise to A.

Review of Test Results is just another stage of the work activity, and result reviews have their own lifecycle. The test results shall be assessed when available, and if they fail to meet the necessary compliance requirements, an NCR shall be issued to track the correction process.

وزارة النقل

وزارة النقل
الهيئة العامة للسكك الحديدية والنقل النهري

مشروع إنشاء القطار السريع
القطاع (طريق 16) من المحطة 0+000 إلى المحطة 0+400

Inspection Request

طلب رقم	العدد
15	

التاريخ	/ / 2022

- مرفق الرفع المساحي (عدد ورقة)

تسليم طبقة (-0.25) من رصيفة 0+200 إلى محطة 0+400 (LEFT Side)

مهندس المكتب الفني	مدير المشروع

ملاحظات الاستلام:

بحالة (A)	بحاجة لبعض الملاحظات (B)	بحاجة للتقديم مرة ثانية للملاحظات وعدم قبولة (C)	مرفوض (D)
☐	☐	☐	☐

الشركة العامة للهندسة للنقل والتعدين والصرف الصحي	إدارة الجودة (مكتب الـ WTC)	يستلم: إدارة النقل و/أو المكتب الفني
الاسم: محمد مصطفى عبد الله	الاسم: محمد عطار	الاسم:
التوقيع:	التوقيع:	التوقيع:
التاريخ: 17/ 12/ 2022	التاريخ:	التاريخ:

SPECTRUM

الشركة الهندسية

خلط سفلتية الكفارل
تحميه أكا نتاير

الهيئة العامة
للطرق و الكباري و النقل البري
(GARBLT)

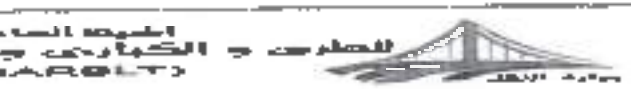
وزارة النقل

MASTER SHEET FOR RD-06 (ZONE 0+000 TO 0+400)

FILL

STATION		0+000	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160	0+180	0+200	0+220	0+240	0+260	0+280	0+300	0+320	0+340	0+360	0+380	0+400
FEAMA LEVEL		424.01	423.82	423.63	423.43	423.24	423.05	422.85	422.66	422.47	422.28	422.08	421.89	421.70	421.50	421.31	421.12	420.92	420.73	420.54	420.34	420.15
Replacement LEVEL		423.01	422.82	422.63	422.43	422.24	422.05	421.85	421.66	421.54	421.74	421.62	421.09	420.89	420.68	420.68	420.50	420.32	420.20	420.08	420.00	419.70
Difference		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.93	0.53	0.46	0.80	0.81	0.82	0.65	0.62	0.60	0.53	0.46	0.34	0.45
	0	424.012	423.839	423.626	423.433	423.24	423.047	422.854	422.661	422.468	422.275	422.082	421.889	421.696	421.503	421.31	421.117	420.924	420.731	420.538	420.345	420.152
	0.25	423.762	423.569	423.376	423.183	422.99	422.797	422.604	422.411	422.218	422.025	421.832	421.639	421.446	421.253	421.06	420.867	420.674	420.482	420.288	420.095	419.902
	0.5	423.512	423.319	423.126	422.933	422.74	422.547	422.354	422.161	421.968	421.775		421.389	421.196	421.003	420.81	420.617	420.424	420.231			
	0.75	423.262	423.069	422.876	422.683	422.49	422.297	422.104	421.911	421.718			421.139	420.946	420.753							
	1	423.012	422.819	422.626	422.433	422.24	422.047	421.854	421.661													

Station	Northing	Easting
0+000.00	798305.046	682387.579
0+020.00	798307.891	682407.376
0+040.00	798310.736	682427.172
0+060.00	798313.580	682446.969
0+080.00	798316.425	682466.766
0+100.00	798319.270	682486.562
0+120.00	798322.114	682506.359
0+140.00	798324.959	682526.156
0+160.00	798327.804	682545.952
0+180.00	798330.648	682565.749
0+200.00	798333.493	682585.546
0+220.00	798336.338	682605.342
0+240.00	798339.182	682625.139
0+260.00	798342.027	682644.936
0+280.00	798344.872	682664.732
0+300.00	798347.716	682684.529
0+320.00	798350.561	682704.326
0+340.00	798353.406	682724.122
0+360.00	798356.250	682743.919
0+380.00	798359.095	682763.716
0+400.00	798361.940	682783.512



قطاع الشركة الهندسية للطرق والكباري والصرف الصحي

طبقة : -0.25

ST	Left									C.L	Right								
	SIDE WALK		ROAD					SIDE WALK			SIDE WALK		ROAD					SIDE WALK	
	17.70	16.0	14.30	13.0	10.0	7.0	4.0	3.5	2.0		2.0	3.5	4.0	7.0	10.0	13.0	14.30	16.0	17.70
0+000	423.60	423.60	423.50	423.67	423.66	423.73	423.75	423.76	423.76	423.70	423.76	423.76	423.75	423.71	423.66	423.62	423.60	423.60	423.60
0+025	423.43	423.41	423.41	423.43	423.47	423.52	423.56	423.57	423.57	423.47	423.53	423.57	423.55	423.52	423.47	423.45	423.41	423.41	423.41
0+050	423.23	423.22	423.22	423.21	423.28	423.32	423.37	423.38	423.38	423.28	423.36	423.38	423.37	423.32	423.28	423.25	423.23	423.22	423.22
0+075	423.03	423.02	423.02	423.04	423.09	423.14	423.18	423.18	423.18	423.08	423.18	423.18	423.18	423.14	423.09	423.08	423.02	423.02	423.02
0+100	422.83	422.83	422.83	422.85	422.89	422.94	422.98	422.98	422.99	422.88	422.99	422.99	422.98	422.94	422.89	422.85	422.83	422.83	422.83
0+125	422.62	422.64	422.64	422.66	422.70	422.75	422.79	422.80	422.80	422.68	422.80	422.80	422.79	422.75	422.71	422.66	422.64	422.64	422.64
0+150	422.45	422.45	422.45	422.46	422.51	422.55	422.60	422.61	422.63	422.48	422.61	422.61	422.60	422.55	422.53	422.46	422.45	422.45	422.45
0+175	422.25	422.25	422.25	422.27	422.33	422.39	422.41	422.42	422.42	422.28	422.42	422.42	422.41	422.36	422.32	422.27	422.25	422.25	422.25
0+200	422.06	422.06	422.06	422.08	422.12	422.17	422.21	422.22	422.22	422.08	422.22	422.22	422.21	422.17	422.14	422.08	422.06	422.06	422.06
0+225	421.87	421.87	421.87	421.89	421.93	421.98	422.02	422.03	422.03	421.88	422.03	422.03	422.02	421.98	421.93	421.89	421.87	421.87	421.87
0+250	421.68	421.68	421.68	421.69	421.74	421.78	421.83	421.84	421.84	421.68	421.84	421.84	421.83	421.78	421.74	421.69	421.68	421.68	421.68
0+275	421.48	421.48	421.48	421.50	421.55	421.59	421.64	421.65	421.65	421.48	421.65	421.65	421.64	421.59	421.55	421.50	421.48	421.48	421.48
0+300	421.29	421.29	421.29	421.31	421.35	421.40	421.44	421.45	421.45	421.28	421.45	421.45	421.44	421.40	421.35	421.31	421.29	421.29	421.29
0+325	421.10	421.10	421.10	421.12	421.16	421.21	421.25	421.26	421.26	421.08	421.26	421.26	421.25	421.21	421.16	421.12	421.10	421.10	421.10
0+350	420.91	420.91	420.91	420.92	420.97	421.01	421.06	421.07	421.07	420.88	421.07	421.07	421.06	421.01	420.97	420.92	420.91	420.91	420.91
0+375	420.71	420.71	420.71	420.73	420.78	420.82	420.87	420.88	420.88	420.68	420.88	420.88	420.87	420.82	420.78	420.73	420.71	420.71	420.71
0+400	420.52	420.52	420.52	420.54	420.58	420.63	420.67	420.68	420.68	420.48	420.68	420.68	420.67	420.63	420.58	420.54	420.52	420.52	420.52

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E
3 ABD EL-KAWY AHMED St. . MOHANDEESEEN - GIZA
Tel. : 3448413 - Fax. : 3031719

Project: Electric Express Train.15 May Sector — *File No.: 4800/S*

Client : الشركة الهندسية — *Date 12/12/2022*

Density of Soil In-Place By Sand-Cone Method (ASTM D-1556)

Date of testing	*11-12-22*
Location	*000+200 to 000+400*
Description Of Tested Material	*Stone , Gravel & Sand.*
Condition of the test	*Tested as found in the existing moisture content.*

Station	*Level (m)*	*Bulk Density (gm/cm3)*	*Moisture Content (%)*	*Insitu Dry Density (gm/cm3)*	*Max Dry Density (gm/cm3)*	*Relative Compaction (%)*
000+300	*-0.25*	*2.012*	*6.4*	*1.891*	*2.040*	*92.7*

Notes:

1- Test location were chosen and identified by the consultant.

2-Maximum Dry Density value was provided by client.

Prepared by : Eng. Rody Yehia

ARDAMAN Split
Egypt Express Train
Project

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E
3 ABD EL-KAWY AHMED St. , MOHANDEESEEN - GIZA
Tel. : 3448413 - Fax. : 3031719

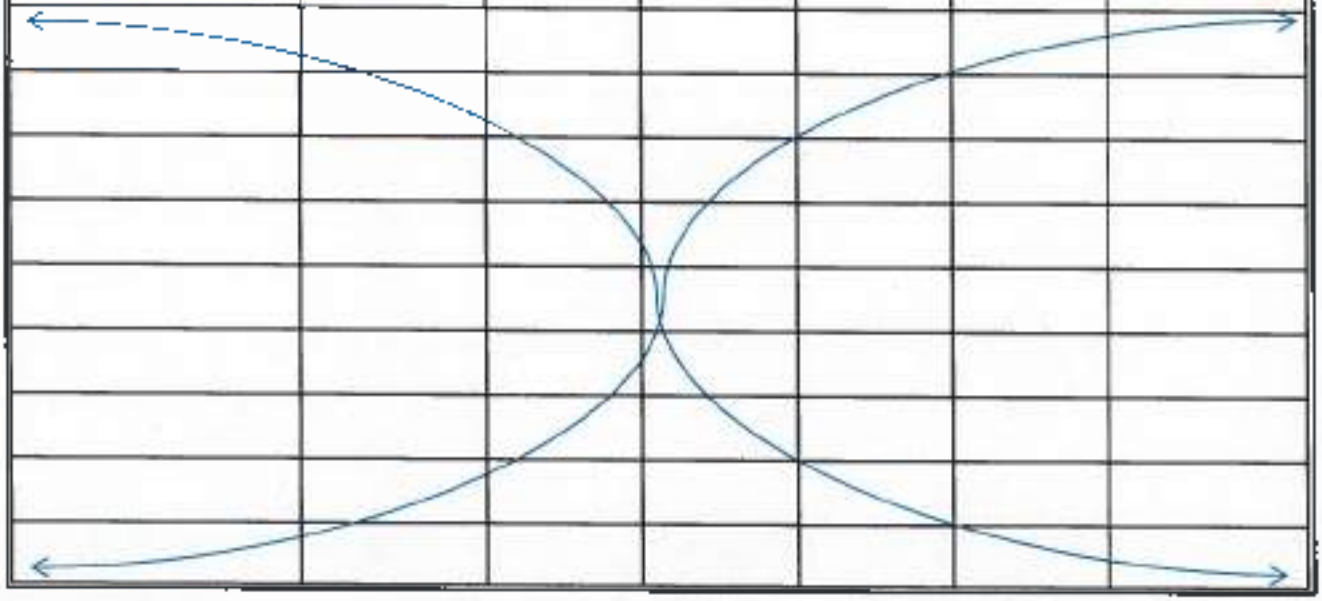
Project: Electric Express Train.15 May Sector — *File No.: 4800/S*

Client : الشركة الهندسية — *Date 13/12/2022*

Density of Soil In-Place By Sand-Cone Method (ASTM D-1556)

Date of testing	*12-12-22*
Location	*000+200 to 000+400 Re-Test*
Description Of Tested Material	*Stone , Gravel & Sand.*
Condition of the test	*Tested as found in the existing moisture content.*

Station	*Level (m)*	*Bulk Density (gm/cm3)*	*Moisture Content (%)*	*Insitu Dry Density (gm/cm3)*	*Max Dry Density (gm/cm3)*	*Relative Compaction (%)*
000+250	*-0.25*	*2.128*	*6.4*	*2.000*	*2.040*	*98.1*
000+350	*-0.25*	*2.110*	*5.5*	*2.000*	*2.040*	*98.0*



Notes:

1- Test location were chosen and identified by the consultant.

2-Maximum Dry Density value was provided by client.

Prepared by : Eng. Rody Yehia

ARDAMAN Split
Egypt Express Train Project

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E

3 ABD EL KAWY AHMED St. , MOHANDESEEN - GIZA
Tel. : 33448413 - Fax. : 33031719

Project: Electric Express Train - 15May Sector ***File No.: 4800/S***

Client: شركة الهندسية ***Date: 06/12/2022***

PARTICLE SIZE ANALYSIS OF SOILS AND MATERIALS FINER THAN # 200 Sieve ASTM D - 422

Sample delivery date: 05/12/2022
Sample Identification No. : Sample No. 932
Source of sample: St Stock Pile Road 6
Level (m) : _
Classification According to AASHTO: A-1-b
Percentage of materials finer than # 200: 16.1%

Sieve No.	Opening (mm)	Percentage Passing %	
3 in.	75	100.0	
2.5 in.	63.5	100.0	
2 in.	50	100.0	
1.5 in.	38	100.0	
1 in.	25	99.7	
3/4 in.	19	97.9	
1/2 in.	12.5	94.1	
3/8 in	9.5	90.8	
No. 4	4.75	78.8	
No. 10	2.0	65.3	
No. 40	0.425	40.7	
No. 200	0.075	16.1	

Notes:-

1-The sample is provided by the consultant and under his own responsibility.

ARDAMAN Split
Egypt Express Train Project

Prepared by : Eng. Rody Yehia

Reviewed by : Eng.Osama Moftah

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E

3 ABD EL KAWY AHMED St , MOHANDESEEN - GIZA
Tel. : 33448413 - Fax. 33031719

Project: Electric Express Train - 15May Sector — *File No.: 4800/S*

Client: شركة الهندسية — *Date: 06/12/2022*

LIQUID LIMIT , PLASTIC LIMIT , AND PLASTICITY INDEX OF SOILS ACCORDING TO ASTM D4318

Sample delivery date: 05/12/2022

Sample Identification No. : Sample No. 932

Source of sample: St Stock Pile Road 6

Level (m) : _

Sample Identification No.	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)
Sample No. 932	25.1	19.2	5.9

- Notes:

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rody Vehia

ARDAMAN Split
Egypt Express Train Project

Reviewed by : Eng.Osama Moftah

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E

3 ABD EL-KAWY AHMED ST., MOHANDESEEN - GIZA
TEL.: 33448413 - FAX.: 33031719

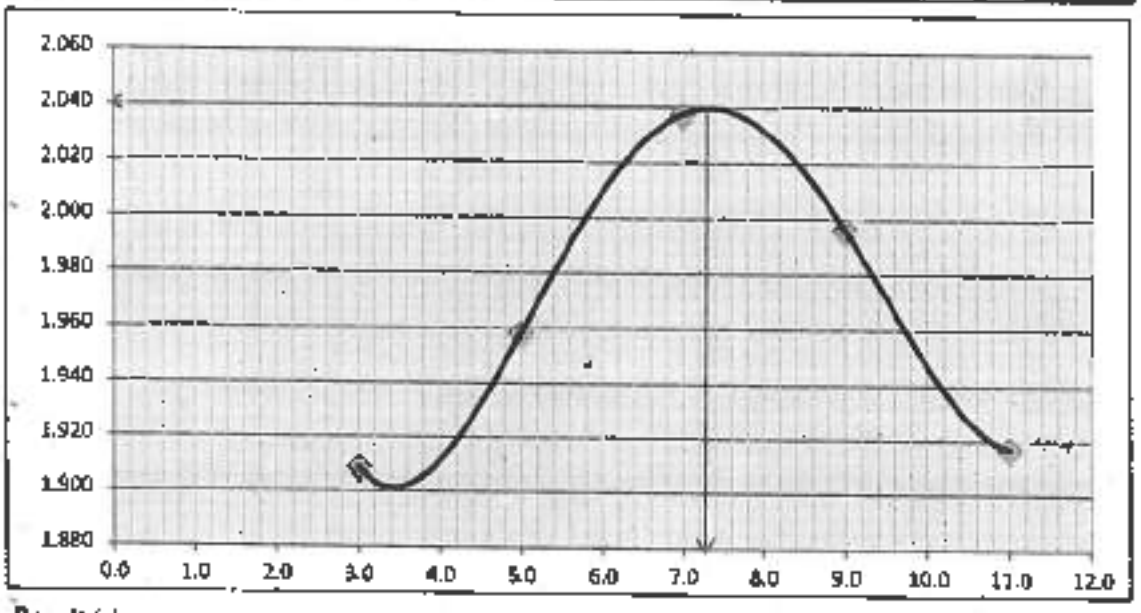
Project: Electric Express Train – 15May Sector *File No.: 4800/S*

Client: شركة الهندسية *Date: 06/12/2022*

MOISTURE DENSITY RELATIONSHIP OF SOIL ACCORDING TO ASTM D 1557

Sample delivery date: 05/12/2022
Sample Identification No. : Sample No. 932
Source of sample: St Stock Pile Road 6
Level (m) : –

Wet Unit Weight, gm/cm³	1.966	2.056	2.180	2.176	2.128
Water Content, %	3.0	5.0	7.0	9.0	11.0
Dry Unit Weight, gm/cm³	1.909	1.958	2.037	1.996	1.917



Result (s):

1- *Maximum dry density* – 2.040 *t/m³*
2- *Optimum moisture content* = 7.30 %

Note (s):

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rady Yehia

ARDAMAN Split
Egypt Express Train Project

Reviewed by : Eng. Osama Mostafa

ARDAMAN *Split*

MATERIALS AND CONSTTRUCTION TESTING, SAE

3 ABD EL-KAWY AHMED St., MOHANDEESEEN - GIZA (Tel. : 33448413 - Mobile : 01006030248)

Project: Electric Express Train - 15 May Sector	File No.	4800/S
	Date	06/12/2022

CHEMICAL ANALYSIS REPORT

Letter Ref. No.	ARD-CH	50	Testing Date :6/12/2022

Type *of* Tested Material	SOIL (Ref.: AASHTO T-267)
Delivery Date	05/12/2022

Sample Code No.	Source	Level	Station	Organic Matter Content, %
932	شركة الهندسية	Stockpile	Road-6	0.562

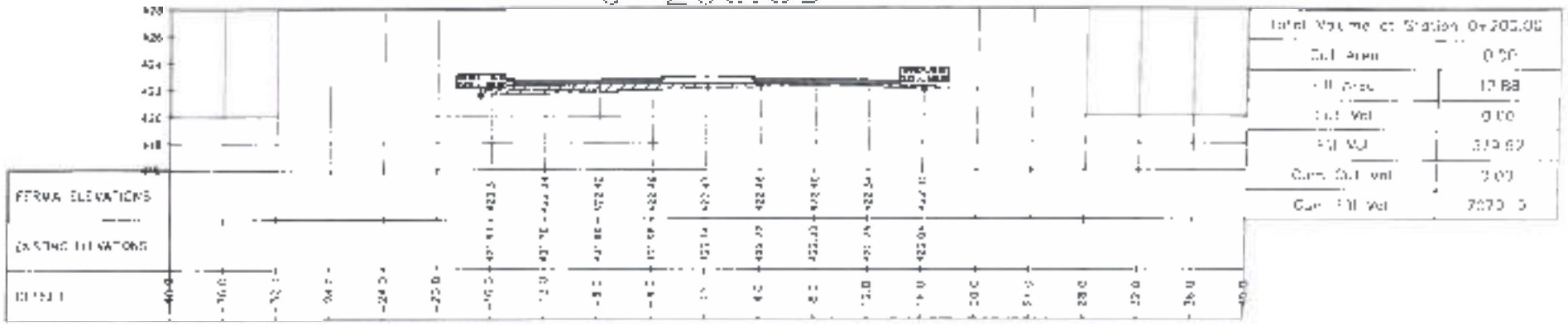
Criteria *of* Acceptance	1.0%

Note :	*The Samples were found Complying with the Project Specs.*

Prepared By: Chem/ Mina Ayman

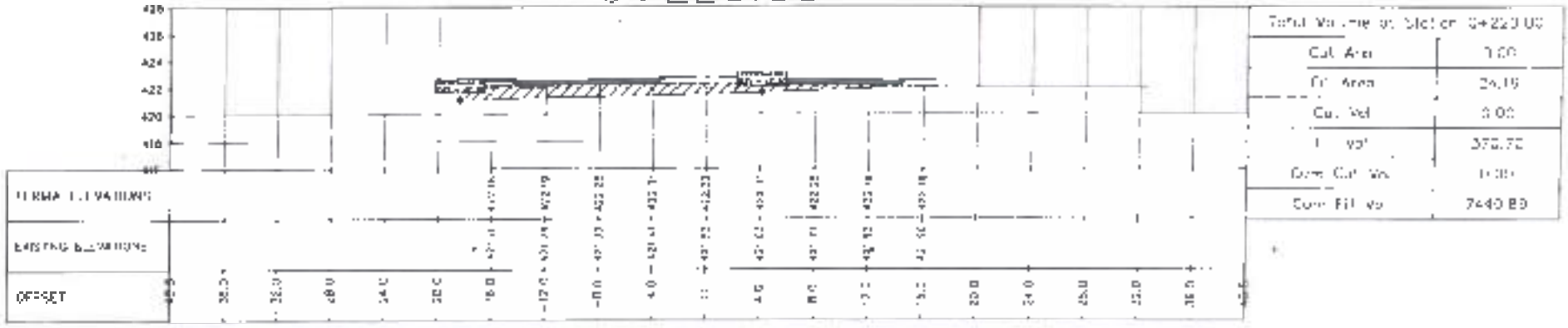
ARDAMAN Split
Egypt Express Train
Project

0 + 200.00



Total Volume at Station 0+200.00	
Cut Area	0.00
Fill Area	17.88
Cut Vol	0.00
Fill Vol	319.69
Cum. Cut Vol	0.00
Cum. Fill Vol	7073.05

0+220.00



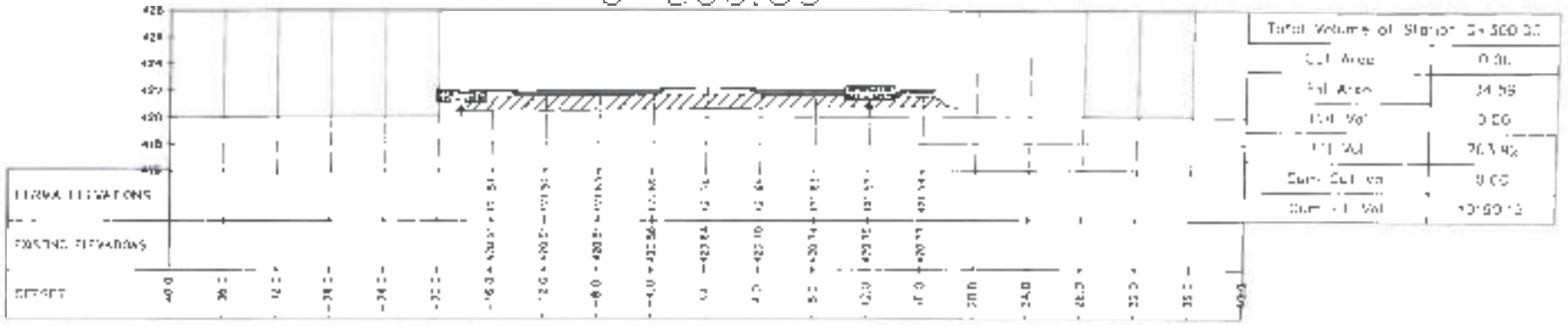
Total Volume at Station 0+220.00	
Cut Area	1.00
Fill Area	24.19
Cut Vol	0.00
Fill Vol	379.72
Cum. Cut Vol	0.00
Cum. Fill Vol	7440.89

SPECTRUM CONSULTING

الشركة الهندسية
للطرق والكباري والصرف الصحي
ب.ص : ٥٧٢ / ٦٢٨ / ٥٧٢
ت.ف : ١٠٧٦٥

المكتب الهندسي
للطرق والكباري والمحرق المصطفى
ت ف : ٥٧٨٠٥٧٤ / ٦٤٨
ص.ب : ١٠٧٦٥

0+300.00



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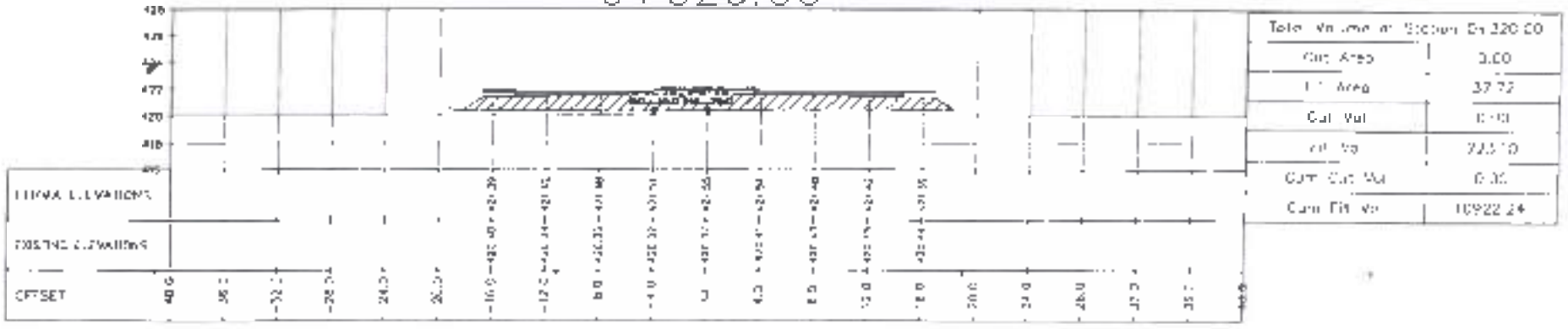
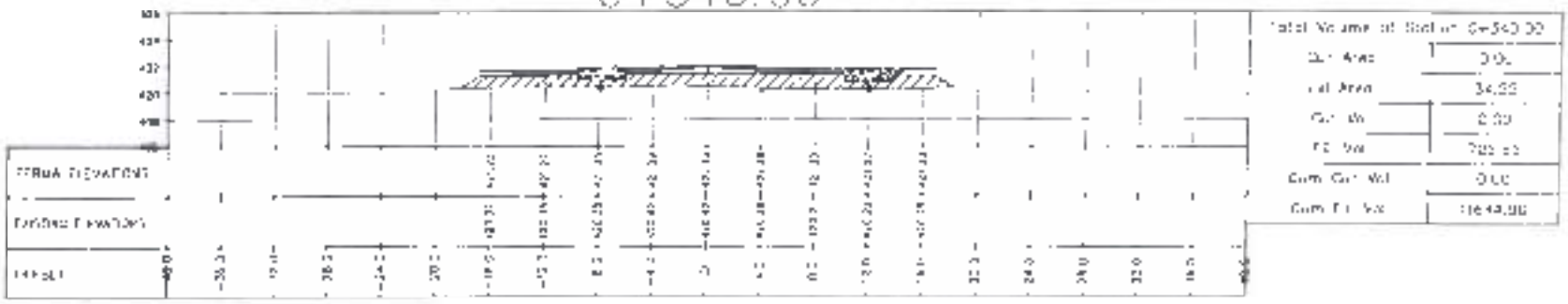
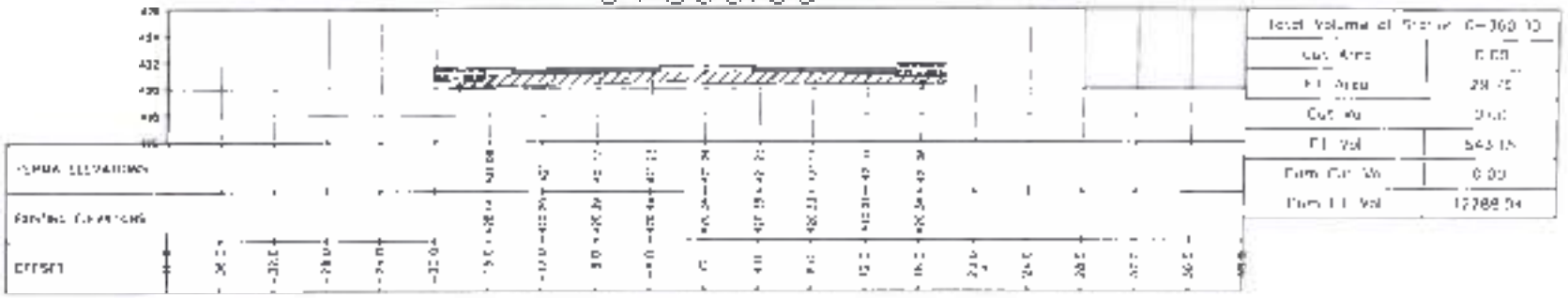


الشركة الهندسية
للغرق والكبارك وانصرف الصحن
ب ص ٥٧٧ / ٦٤٨ / ٥٧٤
١٠٧٦٤

0+340.00



0+360.00



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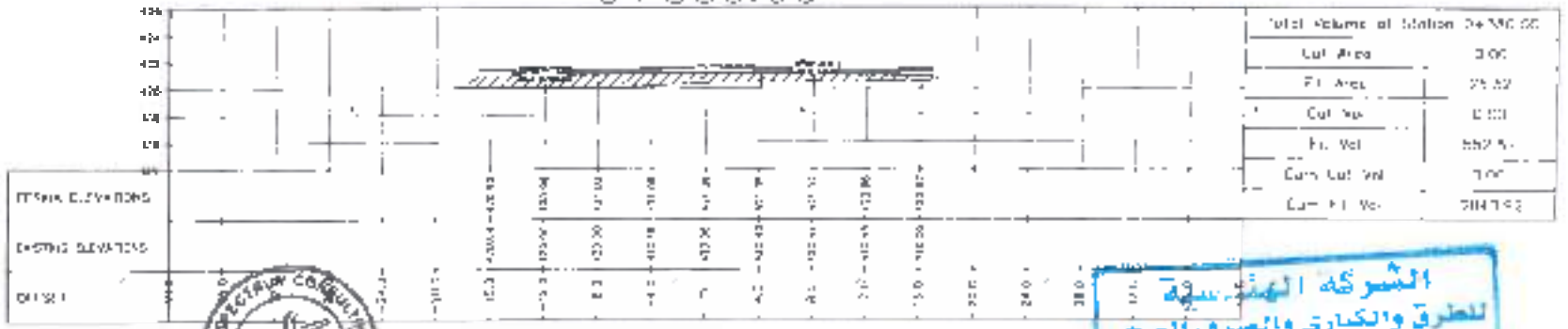


SPECTRUM CONSULTING
الشركة الهندسية
للطرق والكباري والصرف الصحي
ب.ق : ٥٧٧ / ٦٢٨ / ٥٧٤
س ت : ١٠٧٦٥

UNIVERSAL INSPECTION REQUEST

RECEIPT of NOTIFICATION - Minimum Notice Period not less than 24 Hours

The Work described below will be complete and ready for inspection at planned time shown

Contractor Company			Designer Company	Spectrum
Issued by Contractor	Name: Mohamed Sayed	Sign: Mohamed Sayed	Date: 13-12-2022	Time:
Contractor UIR Reference	17			
Received by SA	Abdelwahab Attia	Attia	UIR	C1: S1 C2: E0 C3: Road

DD	MM	YY	HH	MM

CODE-1 S1 to S21 Station Reference	CODE-1 D1 to D3 Depot Reference	CODE-1 Kp XXX For Kilometer point only	CODE-2 Work Activity	CODE-3 Sub Element of Activity

EXPLANATION OF WORK TO BE INSPECTED

Area	Element	Item
ROAD-C6 (0+000 TO 0+400)	FROM ST. (0+000) TO (0+100)	Layer Level (FERMA)

Inspection Description: (Left Side)

INSPECTION DETAILS The Following will be ready at the Planned Inspection Time

Planned Inspection Date	Planned Inspection Time

COMPLIANCE EVIDENCE Must be included as appropriate

Checklist Attached ☐	Test Results Attached ☐	Calibration Attached ☐	Other as indicated ☐
Drawing Reference	ITP Reference	MS Reference	
Other Attachments	Surveying sheets (Master sheets +cross sections + width sheet)		
Plan profile Rev	NA	NA	

Comments by :GARB survey Consultant (XYZ)	Comments by: General Consultant (SYSTRA)
Surveying works (levels-Coords-width) Are Inspection and found : work: may :	

INSPECTION RESULT

		Name	Sign	Date	Time	Approval Status A-AWC B	Please Tick if Not Attend
Organisation							
Contractor Engineer		Mohamed sayed				A	
Contractor QA/QC	XYZ						
	Spectrum						
GARB*							
Employers Representative		Abdel. Wht Attia	Attia	14-12-22		A	

* Alignment Bridges Culvert Only

Instructions for Use:

☐ The Contractor should continue work using their CHECKLIST of inspection items progressively

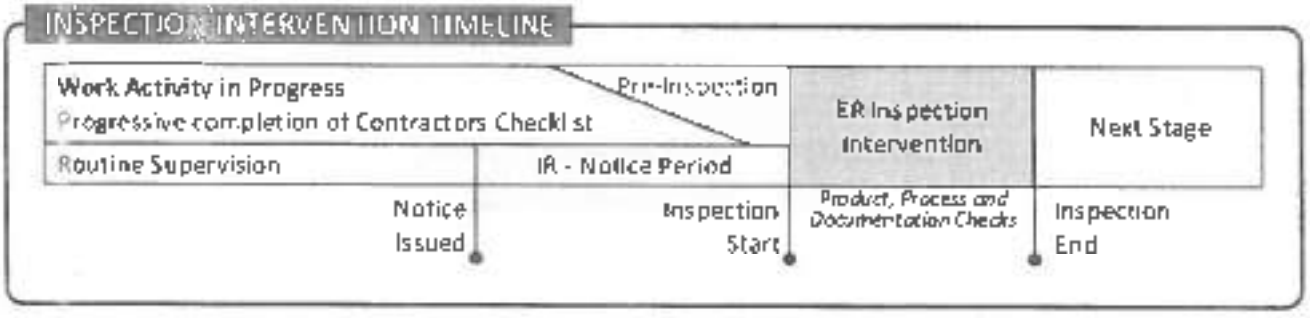
☐ The Contractor should do their own INTERNAL pre-inspection and correct any minor defects before final inspection and if necessary, advise Employer's Representative (ER) of possible delay to arrange correction. Contractor should update their CHECKLIST and their own INTERNAL Comments sheet to show the inspection is satisfactory completed.

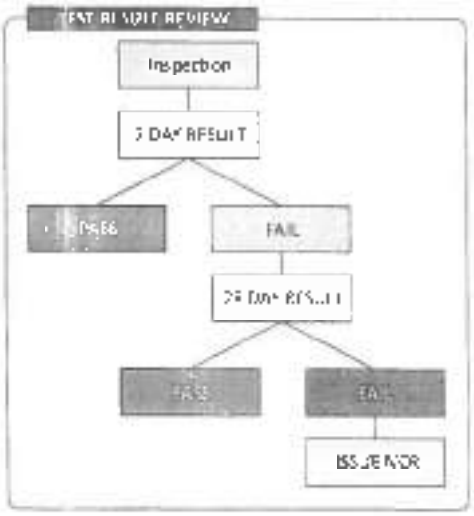
☐ The Contractor Engineer and their QA/QC team should sign the UIR Form before ER inspection. If the work is not ready, they should delay the inspection and not sign the UIR. Comments at this stage are not expected although eg: minor cleaning prior to concrete pour will be allowed

☐ The ER shall attend as indicated and check the Contractors supporting Drawings, Test results, Per-inspection signed sheets and check dimensions, alignment, workmanship, etc. If satisfied ER shall sign the UIR Code A = Approved, or shall add relevant comments and add AWC = Approved with Comments and the next stage may progress when the comments have been resolved, or shall add R = Rejected as the work is not satisfactory and must be corrected and reinspected

AWC or R will require a new UIR Form to be issued and the inspection process will re-start at a new date/time

☐ When Approved without comments, the next stage of work may progress





Inspection COMMENTS must be factual

Delayed test results may apply to every discipline at an inspection. When available, may require inspection records to be reviewed for previous work

It is known that tests results taken during inspection will be available at some date in the future (eg 7 and 28 Days).

The purpose of the UIR is to verify the work stage is ready to progress now. If the Work is ready to progress at the Inspection, then it must be Approved and allowed to progress without comment. This is to avoid returning to old AWC records and revise to A.

Review of Test Results is just another stage of the work activity, and result reviews have their own lifecycle. The test results shall be assessed when available, and if they fail to meet the necessary compliance requirements, an NCR shall be issued to track the correction process.

وزارة النقل

مشروع إنشاء القطار السريع
القطاع (طريق 06) من المحطة 0+000 إلى المحطة 0+400

Inspection Request

طلب رقم	إصدار

التاريخ	/ / 2022

- مرفق الرفع المساحي (عدد ورقة)

تسليم طبقة (FERMA) مناسفلتية (LEIT) 0+400 الى 0+000

مهندس المكتب الفني	مدير المشروع

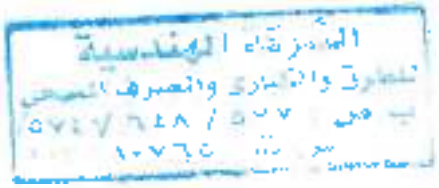
ملاحظات الاعتماد:

بعد (A)	بعد مع تداخل الملاحظات (B)	بعد مع تعليق على تداخل الملاحظات وعدم التنفيذ (C)	رفض (D)
☐	☐	☐	☐

شركة المقاولون العرب للطرق والصرف الصحي	جهة الخدمة (مكتب ٢٧٢)	استلام من جهة الطرق و النقل (مكتب استلام)
الاسم:	الاسم: محمود عبد الحميد	الاسم:
التوقيع:	التوقيع:	التوقيع:
التاريخ:	التاريخ:	التاريخ:

شركة المقاولون العرب
الشركة الهندسية
ادارة الجودة والسلامة والصحة
تليفون: ٥٧٧ / ٦٤٨ / ٥٧٤
١٠٧٦٥

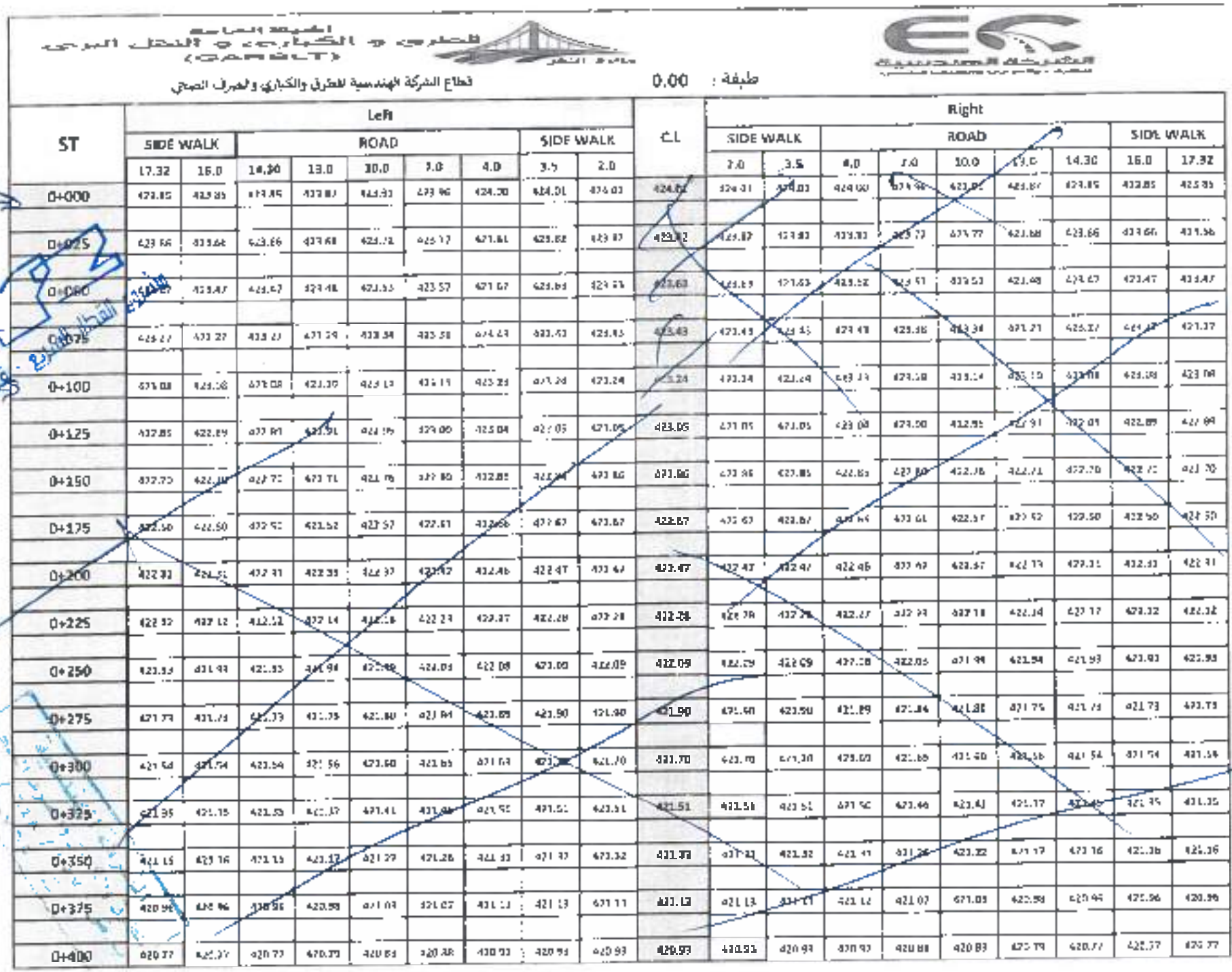
Station	Easting	Northing
0+000.00	682387.579	798305.0463
0+025.00	682412.3249	798308.6021
0+050.00	682437.0707	798312.1579
0+075.00	682461.8165	798315.7138
0+100.00	682486.5624	798319.2696
0+125.00	682511.3082	798322.8254
0+150.00	682536.054	798326.3813
0+175.00	682560.7998	798329.9371
0+200.00	682585.5457	798333.4929
0+225.00	682610.2915	798337.0487
0+250.00	682635.0373	798340.6046
0+275.00	682659.7832	798344.1604
0+300.00	682684.529	798347.7162
0+325.00	682709.2748	798351.2721
0+350.00	682734.0206	798354.8279
0+375.00	682758.7665	798358.3837
0+400.00	682783.5123	798361.9396



الهيئة العامة
للطرق و الكباري و النقل البري
(GARBLT)

MASTER SHEET FOR RD-06 (ZONE 0+000 TO 0+400)

STATION		0+000	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160	0+180	0+200	0+220	0+240	0+260	0+280	0+300	0+320	0+340	0+360	0+380	0+400
FERMA LEVEL		424.01	423.86	423.70	423.55	423.40	423.24	423.09	422.93	422.78	422.63	422.47	422.32	422.16	422.01	421.85	421.70	421.55	421.39	421.24	421.09	420.93
Replacement LEVEL		423.00	422.86	422.70	422.55	422.40	422.24	422.09	421.93	421.78	421.63	421.62	421.32	421.16	421.01	420.85	420.70	420.55	420.39	420.24	420.09	420.15
Difference		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.85	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.78
	0	424.012	423.858	423.704	423.55	423.396	423.242	423.088	422.934	422.78	422.626	422.472	422.318	422.164	422.01	421.856	421.702	421.548	421.394	421.24	421.086	420.932
	0.25	423.762	423.608	423.454	423.3	423.146	422.992	422.838	422.684	422.53	422.376	422.222	422.068	421.914	421.76	421.606	421.452	421.298	421.144	420.99	420.835	420.682
	0.5	423.512	423.358	423.204	423.05	422.896	422.742	422.588	422.434	422.28	422.126	421.972	421.818	421.664	421.51	421.356	421.202	421.048	420.894	420.74	420.586	420.432
	0.75	423.262	423.108	422.954	422.8	422.646	422.492	422.338	422.184	422.03	421.876	421.722	421.568	421.414	421.26	421.106	420.952	420.798	420.644	420.49	420.336	420.182
	1	423.012	422.858	422.704	422.55	422.396	422.242	422.088	421.934	421.78	421.626		421.318	421.164	421.01	420.856	420.702	420.548	420.394	420.24	420.086	



قطاع الشركة الهندسية للطرق والكباري والصرف الصحي

طبقة : 0.00

ST	Left									CL	Right								
	SIDE WALK		ROAD					SIDE WALK			SIDE WALK		ROAD					SIDE WALK	
	17.32	16.0	14.30	13.0	10.0	7.0	4.0	3.5	2.0		2.0	3.5	4.0	7.0	10.0	13.0	14.30	16.0	17.32
0+000	423.85	423.85	423.85	423.83	423.93	423.96	424.20	424.01	424.03	424.02	424.01	424.03	424.00	423.96	423.82	423.87	423.85	423.85	423.85
0+025	423.66	423.66	423.66	423.68	423.72	423.77	423.81	423.82	423.83	423.82	423.82	423.83	423.83	423.77	423.77	423.68	423.66	423.66	423.66
0+050	423.47	423.47	423.47	423.48	423.53	423.57	423.67	423.64	423.65	423.63	423.63	423.63	423.62	423.57	423.53	423.48	423.47	423.47	423.47
0+075	423.27	423.27	423.27	423.29	423.34	423.38	423.49	423.43	423.45	423.43	423.43	423.45	423.48	423.38	423.34	423.31	423.27	423.27	423.27
0+100	423.08	423.08	423.08	423.10	423.13	423.19	423.29	423.24	423.24	423.24	423.24	423.24	423.23	423.18	423.14	423.10	423.08	423.08	423.08
0+125	422.89	422.89	422.89	422.91	422.95	423.00	423.09	423.05	423.05	423.05	423.05	423.05	423.03	423.00	422.95	422.91	422.89	422.89	422.89
0+150	422.70	422.70	422.72	422.71	422.76	422.80	422.89	422.86	422.86	422.86	422.86	422.86	422.83	422.80	422.76	422.71	422.70	422.70	422.70
0+175	422.50	422.50	422.52	422.52	422.57	422.61	422.68	422.67	422.67	422.67	422.67	422.67	422.66	422.61	422.57	422.52	422.50	422.50	422.50
0+200	422.31	422.31	422.31	422.33	422.37	422.42	422.48	422.47	422.47	422.47	422.47	422.47	422.46	422.42	422.37	422.33	422.31	422.31	422.31
0+225	422.12	422.12	422.12	422.14	422.18	422.23	422.27	422.28	422.28	422.28	422.28	422.28	422.27	422.23	422.18	422.14	422.12	422.12	422.12
0+250	421.93	421.93	421.93	421.94	421.98	422.04	422.08	422.09	422.09	422.09	422.09	422.09	422.08	422.04	421.98	421.94	421.93	421.93	421.93
0+275	421.73	421.73	421.73	421.75	421.80	421.84	421.89	421.90	421.90	421.90	421.90	421.90	421.89	421.84	421.80	421.75	421.73	421.73	421.73
0+300	421.54	421.54	421.54	421.56	421.60	421.65	421.69	421.70	421.70	421.70	421.70	421.70	421.69	421.65	421.60	421.56	421.54	421.54	421.54
0+325	421.35	421.35	421.53	421.37	421.41	421.46	421.50	421.51	421.51	421.51	421.51	421.51	421.50	421.46	421.41	421.37	421.35	421.35	421.35
0+350	421.15	421.16	421.15	421.17	421.22	421.26	421.33	421.32	421.32	421.32	421.32	421.32	421.31	421.26	421.22	421.17	421.16	421.16	421.16
0+375	420.96	420.96	420.96	420.98	421.03	421.07	421.13	421.13	421.11	421.13	421.13	421.11	421.12	421.07	421.03	420.98	420.96	420.96	420.96
0+400	420.77	420.77	420.77	420.79	420.84	420.88	420.93	420.94	420.93	420.93	420.93	420.93	420.93	420.88	420.83	420.79	420.77	420.77	420.77

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E.
3 ABD EL-KAWY AHMED St., MOHANDESEEN - GIZA
Tel. : 3448413 - Fax. : 3031719

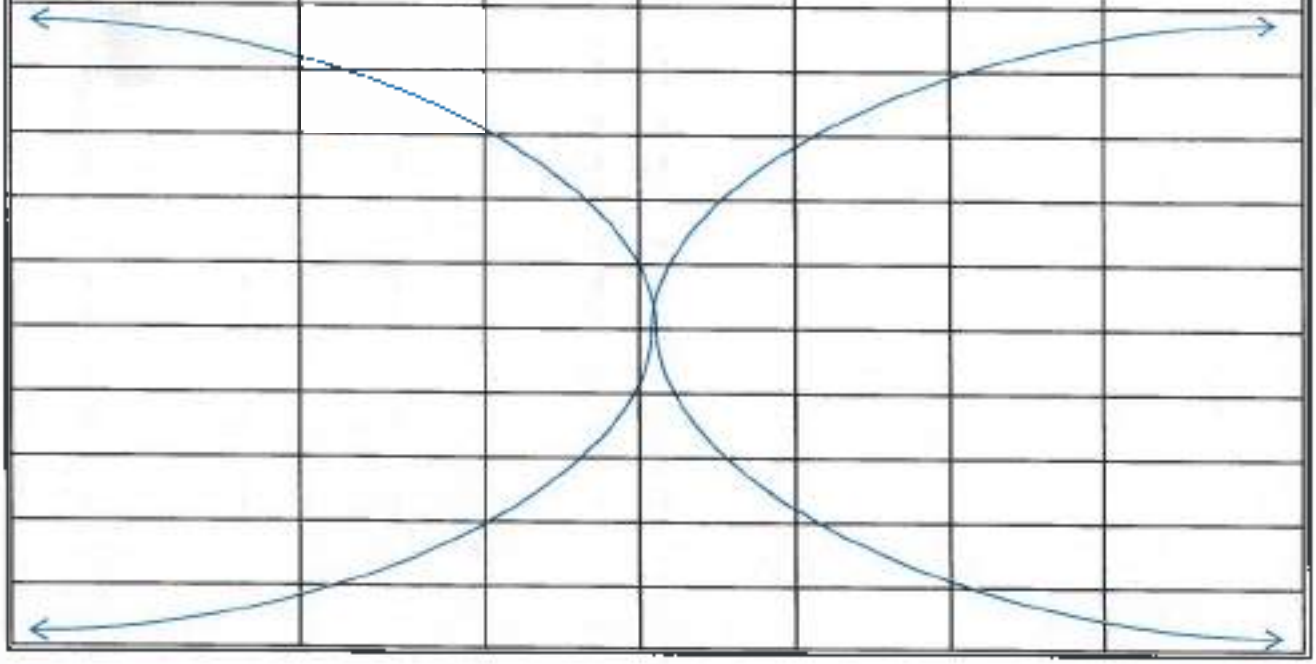
Project: Electric Express Train.15 May Sector — *File No.: 4800/S*

Client : الشركة الهندسية — *Date 14/12/2022*

Density of Soil In-Place By Sand-Cone Method (ASTM D-1556)

Date of testing	*13-12-22*
Location	*000+000 to 000+100*
Description Of Tested Material	*Stone , Gravel & Sand.*
Condition of the test	*Tested as found in the existing moisture content.*

Station	Level (m)	Bulk Density (gm/cm3)	Moisture Content (%)	Insitu Dry Density (gm/cm3)	Max Dry Density (gm/cm3)	Relative Compaction (%)
000+050	B.S.G	2.129	6.3	2.003	2.040	98.2



Notes:

1- Test location were chosen and identified by the consultant.

2-Maximum Dry Density value was provided by client.

Prepared by : Eng. Rody Yehia

ARDAMAN Split
Egypt Express Train Project

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.AE

3 ABD El. KAWY AHMED St. , MOHANDESEEN - GIZA
Tel. : 33448413 - Fax. : 33031719

Project: Electric Express Train - 15/May Sector ***File No.: 4800/S***

Client: شركة الهندسية ***Date: 06/12/2022***

PARTICLE SIZE ANALYSIS OF SOILS AND MATERIALS FINER THAN # 200 Sieve ASTM D - 422

Sample delivery date: *05/12/2022*
Sample Identification No. : *Sample No. 932*
Source of sample: *St Stock Pile Road 6*
Level (m) : _
Classification According to AASHTO: *A-1-b*
Percentage of materials finer than # 200: *16.1%*

Sieve No.	Opening (mm)	Percentage Passing %	
3 in.	75	100.0	
2.5 in.	63.5	100.0	
2 in.	50	100.0	
1.5 in.	38	100.0	
1 in.	25	99.7	
3/4 in.	19	97.9	
1/2 in.	12.5	94.1	
3/8 in.	9.5	90.8	
No. 4	4.75	78.8	
No. 10	2.0	65.3	
No. 40	0.425	40.7	
No. 200	0.075	16.1	

Notes:-

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rody Yehia

ARDAMAN Split
Egypt Express Tram Project

Reviewed by : Eng.Osama Moftah

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E

3 ABD EL KAWY AHMED St. , MOHANDESEEN - GIZA
Tel.: 33448413 - Fax.: 33031719

Project: *Electric Express Train - 15May Sector* ***File No.:*** *4800/S*

Client: *شركة الهندسية* ***Date:*** *06/12/2022*

LIQUID LIMIT , PLASTIC LIMIT , AND PLASTICITY INDEX OF SOILS ACCORDING TO ASTM D4318

Sample delivery date: *05/12/2022*

Sample Identification No. : *Sample No. 932*

Source of sample: *St Stock Pile Road 6*

Level (m) : _

Sample Identification No.	*Liquid Limit (%)*	*Plastic Limit (%)*	*Plasticity Index (%)*
Sample No. 932	*25.1*	*19.2*	*5.9*

- Notes:

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rody Yehia

ARDAMAN Split
Egypt Express Train Project

Reviewed by : Eng.Osama Moftah

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E

3 ABD EL-KAWY AHMED ST., MOHANDESEEN - GIZA
TEL.: 33448413 - FAX.: 33031719

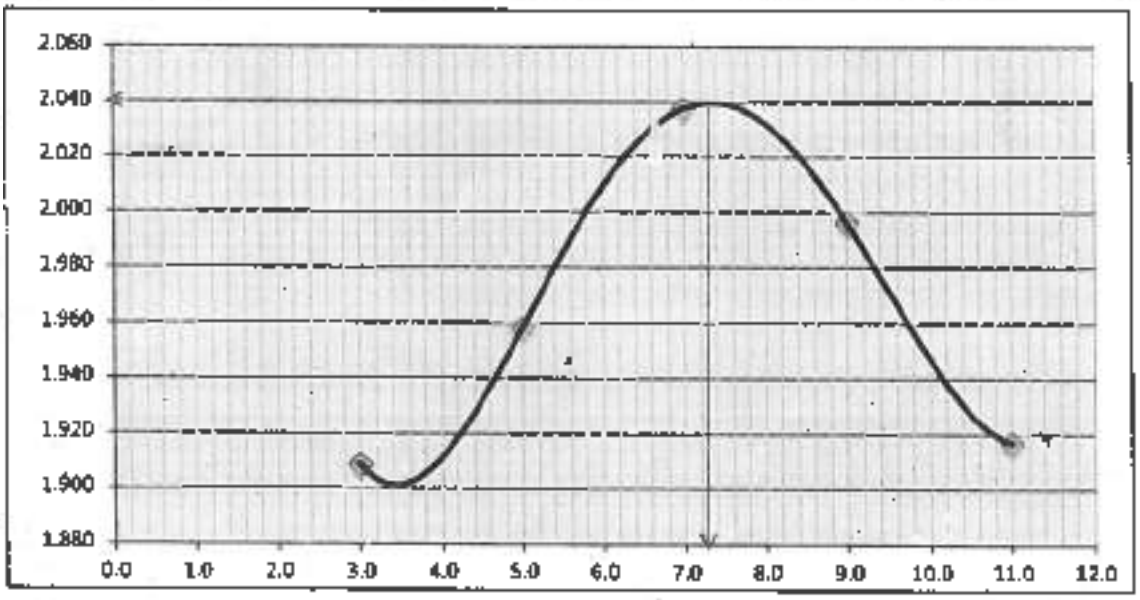
Project: Electric Express Train - 15May Sector — *File No.: 4800/S*

Client: شركة الهندسية — *Date: 06/12/2022*

MOISTURE DENSITY RELATIONSHIP OF SOIL ACCORDING TO ASTM D 1557

Sample delivery date: 05/12/2022
Sample Identification No. : Sample No. 932
Source of sample: St Stock Pile Road 6
Level (m) : -

Wet Unit Weight, gm/cm^3	1.966	2.056	2.180	2.176	2.128
Water Content, %	3.0	5.0	7.0	9.0	11.0
Dry Unit Weight, gm/cm^3	1.909	1.958	2.037	1.996	1.917



Result (s):

1- Maximum dry density = 2.040 t/m^3
2- Optimum moisture content = 7.30 %

Note (s):

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Hady Yehia

ARDAMAN Split
Egypt Express Train Project

Reviewed by : Eng.Osama Moftah

ARDAMAN *Split*

MATERIALS AND CONSTTRUCTION TESTING, SAE

3 ABD EL-KAWY AHMED St., MOHANDEESEEN - GIZA (Tel. : 33448413 - Mobile : 01006038248)

Project: Electric Express Train - 15 May Sector	**File No.**	**4800/S**
	Date	**06/12/2022**

CHEMICAL ANALYSIS REPORT

Letter Ref. No.	**ARD-CH**	**50**	**Testing Date :6/12/2022**

Type *of* Tested Material	**SOIL (Ref.: AASHTO T-267)**
Delivery Date	**05/12/2022**

Sample Code No.	Source	Level	Station	Organic Matter Content, %
932	شركة الهندسية	Stockpile	Road-6	0.562

Criteria *of* Acceptance	**1.0%**

Note :	***The Samples were found Complying with the Project Specs.***

Prepared By: Chem/ Mina Ayman

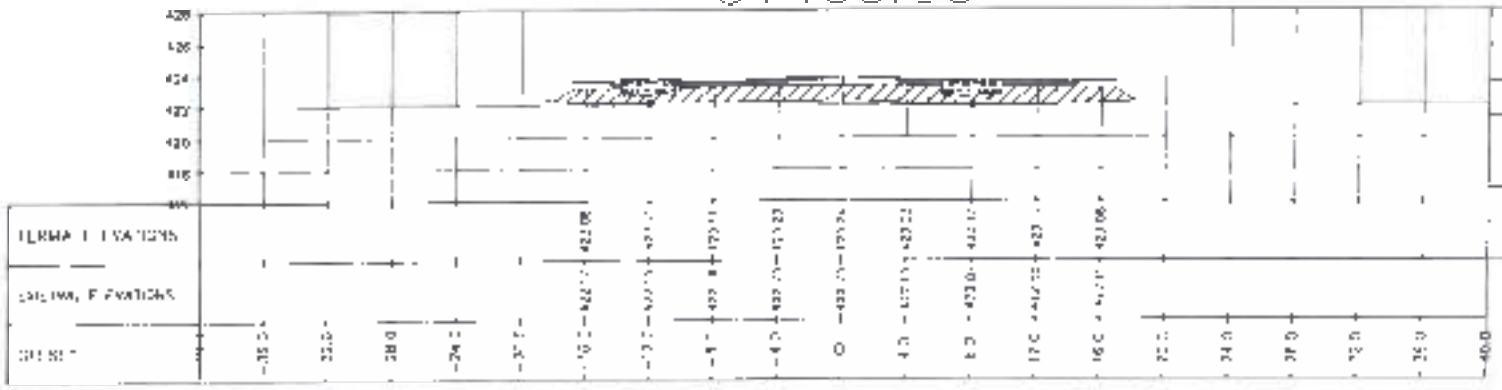
ARDAMAN Split
Egypt Express Train
Project

0+080.00

0+060.00

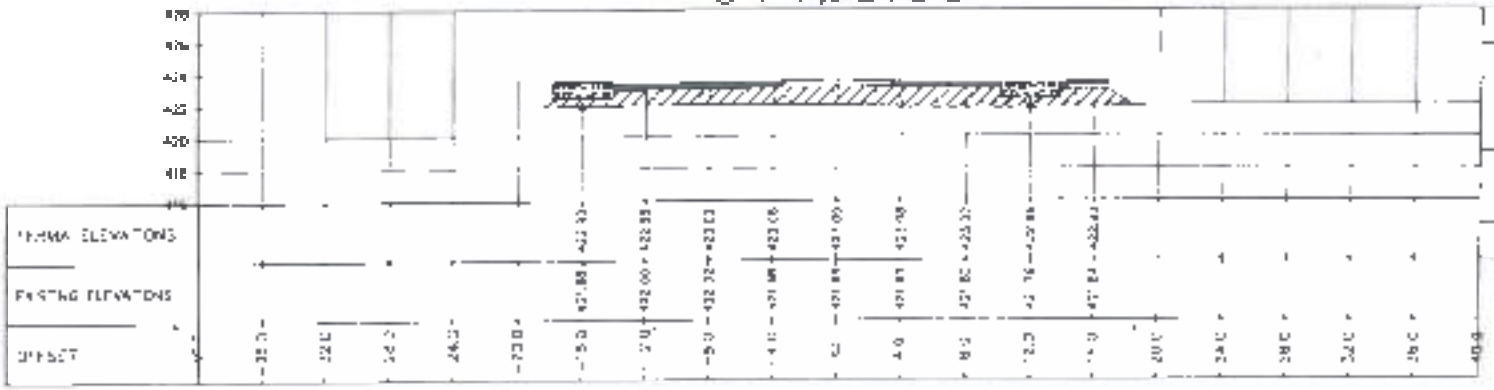
0+040.00

0+100.00



Total Volume at Station 0+100.00	
Cut Area	0.00
Fill Area	25.84
Cut Vol	0.00
Fill Vol	725.20
Cum Cut Vol	0.00
Cum Fill Vol	1761.34

0+120.00



Total Volume at Station 0+120.00	
Cut Area	0.00
Fill Area	39.26
Cut Vol	0.00
Fill Vol	650.97
Cum Cut Vol	0.00
Cum Fill Vol	4504.50

SPECTRUM CONSULTANTS

UNIVERSAL INSPECTION REQUEST

RECEIPT of NOTIFICATION - Minimum Notice Period not less than 24 Hours
The Work described below will be complete and ready for inspection at planned time shown

Contractor Company		Designer Company	Spectrum
Issued by Contractor	Name: Sign	Date	Time
Contractor IIR Reference	Mohamed Sayed 18		
Received by ER	Abdellatif Attia AATTIA	IIR	

C1	C2	C3	DD	MM	YY	HH	MM

CODE-1 SJ to S21 Station Reference	CODE-1 D1 to S3 Depot Reference	CODE-1 Kp XXX for Kilometer point only	CODE-2 Work Activity	CODE-3 Sub Element of Activity

EXPLANATION OF WORK TO BE INSPECTED

Area	Element	Item
ROAD 06 (0+000 TO 0+400)	FROM ST.: 0+000 TO: 0+400	Layer Level: Formation

Inspection Description:
(Left Side)

INSPECTION DETAILS The Following will be ready at the Planned Inspection Time

Planned Inspection Date	Planned Inspection Time

COMPLIANCE EVIDENCE Must be included as appropriate

Checklist Attached ☐	Test Results Attached ☐	Calibration Attached ☐	Other as indicated ☐
Drawing Reference	ITP Reference		MS Reference
Other Attachments	Surveying sheets (Master sheets +cross sections + w.d.n sheet)		
Plan profile Rev	NA		NA

Comments by: GARB survey Consultant (XYZ)	Comments by: General Consultant (SYSTRA)
Surveying works (level + Coords-width) Are inspection and found: work may:	

	INSPECTION RESULT				Approval Status	Please Tick if Not Attend
Organisation	Name	Sign	Date	Time	A-AWC-R	
Contractor Engineer	Mohamed Sayed					
Contractor QA/QC	XYZ				A	
	Spectrum					
GARB*						
Employers Representative	Abdellatif Attia	AATTIA	15-12-22		A	

* Alignment: Bridges, Culvert City

Instructions for Use:

☐ The Contractor should continue work using their CHECKLIST of inspection items progressively

☐ The Contractor should do their own INTERNAL pre-inspection and correct any minor defects before final inspection and if necessary, advise Employer's Representative (ER) of possible delay to arrange correction. Contractor should update their CHECKLIST and their own INTERNAL Comments sheet to show the inspection is satisfactory completed.

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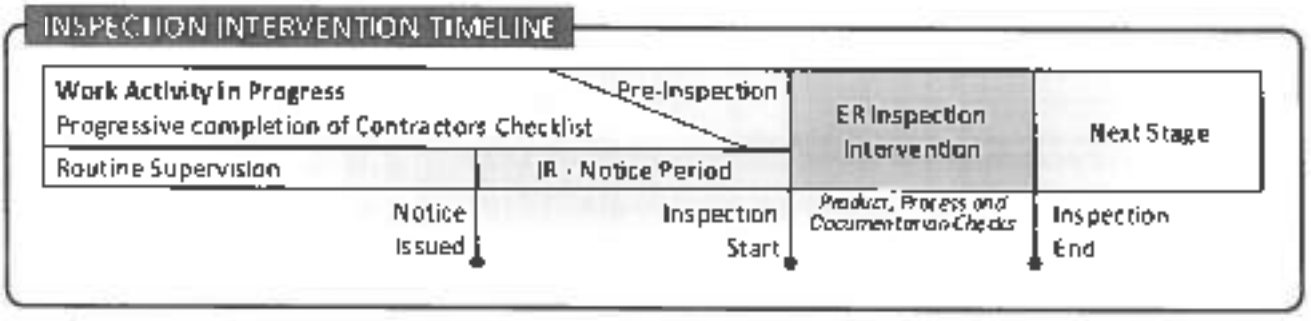
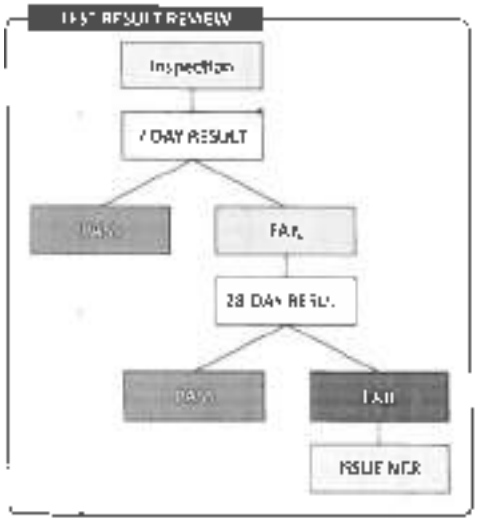
AWC or R will require a new UIR Form to be issued and the inspection process will re-start at a new date/time

☐ When Approved without comments, the next stage of work may progress





Inspection COMMENTS must be factual

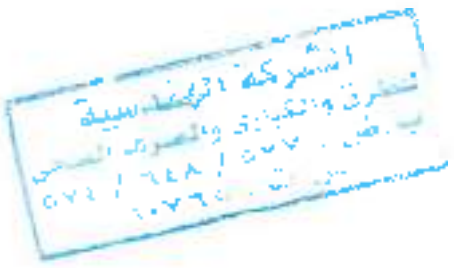
Delayed test results may apply to every discipline at an inspection. When available, may require inspection records to be reviewed for previous work.

It is known that tests results taken during inspection will be available at some date in the future (eg 7 and 28 Days).

The purpose of the UIR is to verify the work stage is ready to progress now. If the Work is ready to progress at the Inspection, then it must be Approved and allowed to progress without comment. This is to avoid returning to old AWC records and revise to A.

Review of Test Results is just another stage of the work activity, and result reviews have their own lifecycle. The test results shall be assessed when available, and if they fail to meet the necessary compliance requirements, an **NCR shall be issued** to track the correction process.

Station	Easting	Northing
0+000.00	682387.579	798305.0463
0+025.00	682412.3249	798308.6021
0+050.00	682437.0707	798312.1579
0+075.00	682461.8165	798315.7138
0+100.00	682486.5624	798319.2696
0+125.00	682511.3082	798322.8254
0+150.00	682536.054	798326.3813
0+175.00	682560.7998	798329.9371
0+200.00	682585.5457	798333.4929
0+225.00	682610.2915	798337.0487
0+250.00	682635.0373	798340.6046
0+275.00	682659.7832	798344.1604
0+300.00	682684.529	798347.7162
0+325.00	682709.2748	798351.2721
0+350.00	682734.0206	798354.8279
0+375.00	682758.7665	798358.3837
0+400.00	682783.5123	798361.9396



هيئة الدوحة
للطرق و الكباري و النقل البري
(QARBLT)

MASTER SHEET FOR RD-06 (ZONE 0+000 TO 0+400)

FILL

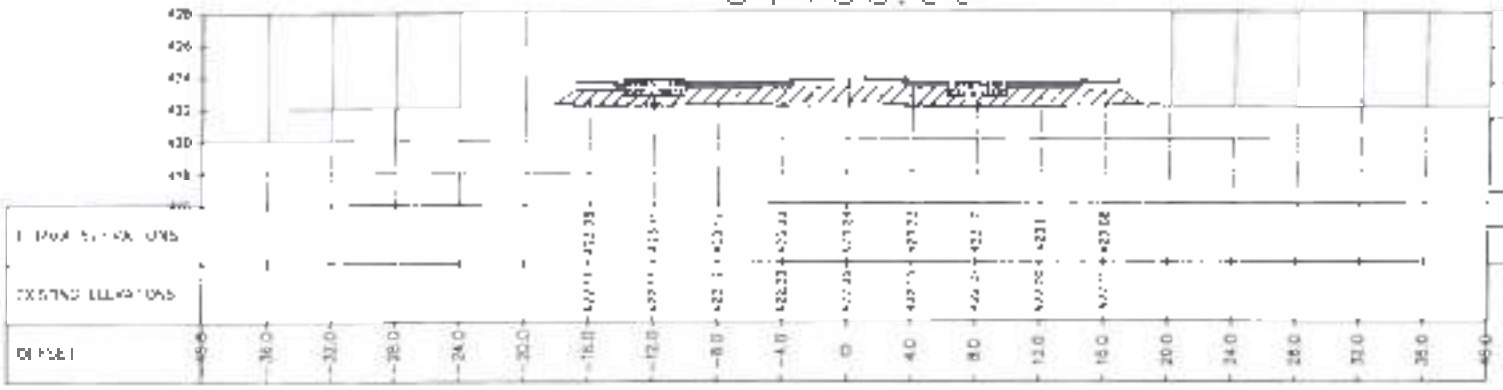
STATION		0+000	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160	0+180	0+200	0+220	0+240	0+260	0+280	0+300	0+320	0+340	0+360	0+380	0+400
FERMA LEVEL		424.01	423.86	423.70	423.55	423.40	423.24	423.09	422.93	422.78	422.63	422.47	422.32	422.16	422.01	421.86	421.70	421.55	421.39	421.24	421.09	420.93
Replacement LEVEL		423.01	422.86	422.70	422.55	422.40	422.24	422.09	421.93	421.78	421.63	421.62	421.32	421.16	421.01	420.86	420.70	420.55	420.39	420.24	420.09	420.15
Difference		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.85	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.78
	0	424.012	423.858	423.704	423.55	423.396	423.242	423.088	422.934	422.78	422.626	422.472	422.318	422.164	422.01	421.856	421.702	421.548	421.394	421.24	421.086	420.932
	0.25	423.762	423.608	423.454	423.3	423.146	422.992	422.838	422.684	422.53	422.376	422.222	422.068	421.914	421.76	421.606	421.452	421.298	421.144	420.99	420.836	420.682
	0.5	423.512	423.358	423.204	423.05	422.896	422.742	422.588	422.434	422.28	422.126	421.972	421.818	421.664	421.51	421.356	421.202	421.048	420.894	420.74	420.586	420.432
	0.75	423.262	423.108	422.954	422.8	422.646	422.492	422.338	422.184	422.03	421.876	421.722	421.568	421.414	421.26	421.106	420.952	420.798	420.644	420.49	420.336	420.182
	1	423.012	422.858	422.704	422.55	422.396	422.242	422.088	421.934	421.78	421.626		421.318	421.164	421.01	420.856	420.702	420.548	420.394	420.24	420.086	

قطاع الشركة الهندسية للطرق والكباري والصرف الصحي

طبقة : 0.00

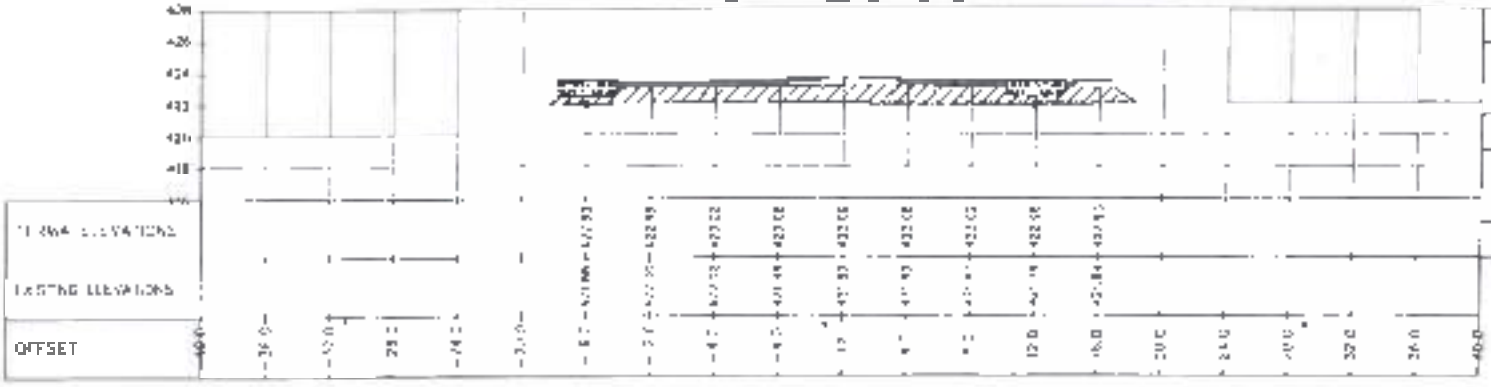
ST	Left									C.L	Right								
	SIDE WALK		ROAD					SIDE WALK			SIDE WALK		ROAD					SIDE WALK	
	17.32	16.0	14.30	13.0	10.0	7.0	4m	3.5	2.0		2.0	3.5	4.0	7.0	10.0	13.0	14.30	16.0	17.32
0+000	423.85	423.85	423.85	423.87	423.91	423.96	424.00	424.01	424.01	424.01	424.01	424.03	424.00	423.96	423.91	423.87	423.85	423.85	423.85
0+025	423.66	423.66	423.66	423.68	423.72	423.77	423.82	423.82	423.82	423.82	423.87	423.87	423.91	423.77	423.72	423.68	423.66	423.66	423.66
0+050	423.47	423.47	423.47	423.48	423.53	423.57	423.62	423.63	423.63	423.63	423.63	423.63	423.62	423.57	423.53	423.48	423.47	423.47	423.47
0+075	423.27	423.27	423.33	423.45	423.50	423.56	423.63	423.61	423.61	423.61	423.63	423.65	423.63	423.58	423.56	423.50	423.27	423.27	423.27
0+100	423.08	423.08	423.08	423.20	423.14	423.19	423.23	423.24	423.24	423.24	423.24	423.24	423.23	423.19	423.14	423.20	423.08	423.08	423.08
0+125	422.89	422.89	422.89	422.93	422.95	423.00	423.04	423.04	423.05	423.05	423.05	423.06	423.06	423.00	422.95	422.93	422.89	422.89	422.89
0+150	422.70	422.70	422.70	422.71	422.76	422.81	422.85	422.86	422.86	422.86	422.86	422.86	422.87	422.81	422.76	422.71	422.70	422.70	422.70
0+175	422.50	422.50	422.50	422.53	422.57	422.61	422.66	422.67	422.67	422.67	422.67	422.67	422.66	422.61	422.57	422.53	422.50	422.50	422.50
0+200	422.31	422.31	422.31	422.35	422.37	422.42	422.46	422.47	422.47	422.47	422.43	422.43	422.46	422.41	422.37	422.35	422.31	422.31	422.31
0+225	422.13	422.13	422.14	422.18	422.18	422.23	422.27	422.28	422.28	422.28	422.28	422.28	422.27	422.23	422.18	422.14	422.13	422.13	422.13
0+250	421.93	421.93	421.94	421.94	421.99	422.04	422.08	422.09	422.09	422.09	422.09	422.09	422.08	422.04	421.99	421.94	421.93	421.93	421.93
0+275	421.73	421.73	421.73	421.75	421.80	421.84	421.89	421.90	421.90	421.90	421.90	421.90	421.89	421.84	421.80	421.75	421.73	421.73	421.73
0+300	421.54	421.54	421.54	421.56	421.60	421.65	421.69	421.70	421.70	421.70	421.70	421.70	421.69	421.65	421.60	421.56	421.54	421.54	421.54
0+325	421.35	421.35	421.33	421.37	421.41	421.46	421.50	421.51	421.51	421.51	421.51	421.51	421.50	421.46	421.41	421.37	421.35	421.35	421.35
0+350	421.16	421.16	421.16	421.17	421.22	421.26	421.31	421.32	421.32	421.32	421.32	421.32	421.31	421.26	421.22	421.17	421.16	421.16	421.16
0+375	420.96	420.96	420.96	420.98	421.03	421.07	421.12	421.13	421.13	421.13	421.13	421.13	421.12	421.07	421.03	420.98	420.96	420.96	420.96
0+400	420.77	420.77	420.77	420.79	420.84	420.88	420.92	420.93	420.93	420.93	420.93	420.93	420.92	420.88	420.84	420.79	420.77	420.77	420.77

0+100.00

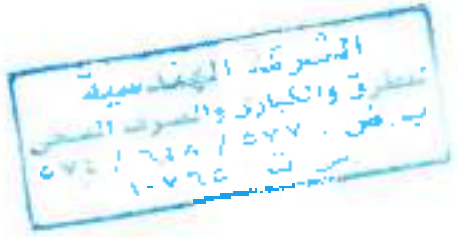


Total Volume at Station 0+100.00	
Cut Area	0.00
Fill Area	35.84
Cut Vol	0.00
Fill Vol	725.20
Cum Cut Vol	0.00
Cum Fill Vol	3153.84

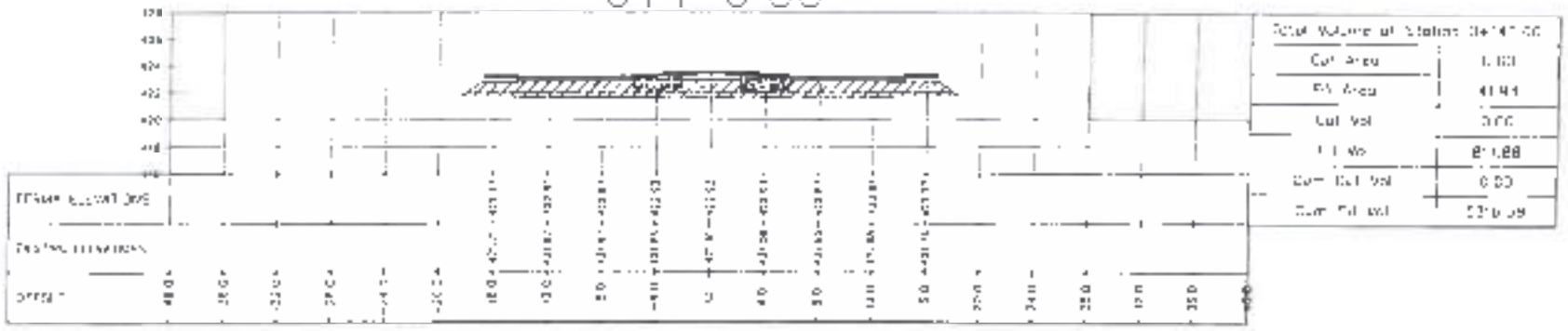
0+120.00



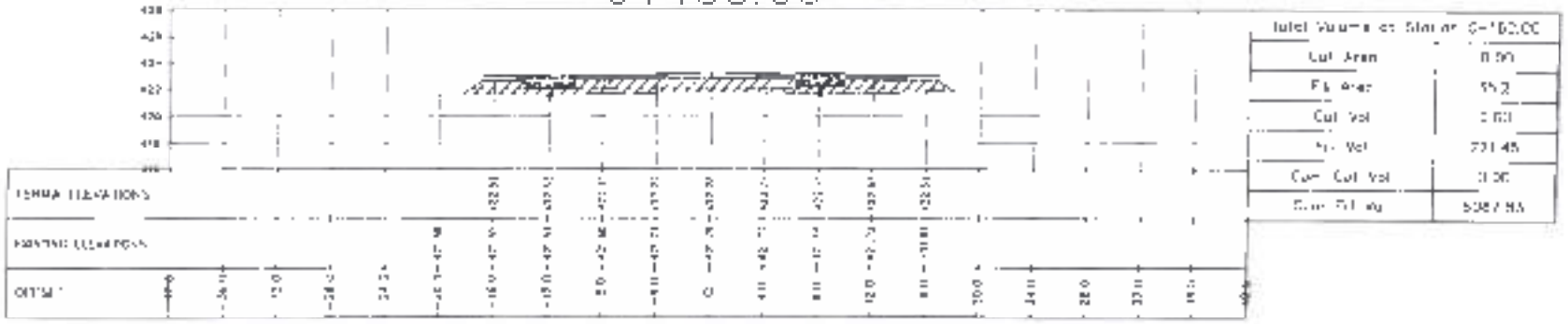
Total Volume at Station 0+120.00	
Cut Area	0.00
Fill Area	49.25
Cut Vol	0.00
Fill Vol	330.97
Cum Cut Vol	0.00
Cum Fill Vol	4804.50



0+140.00



0+160.00



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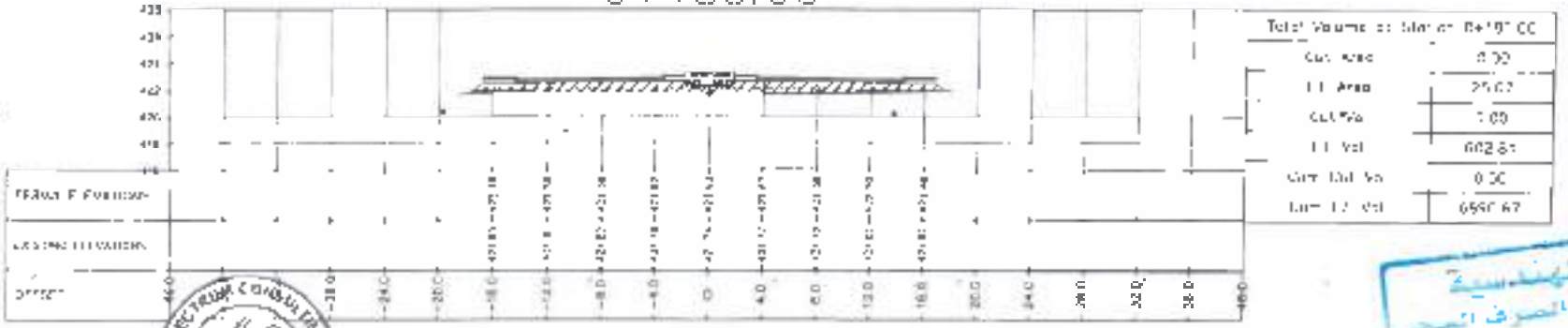
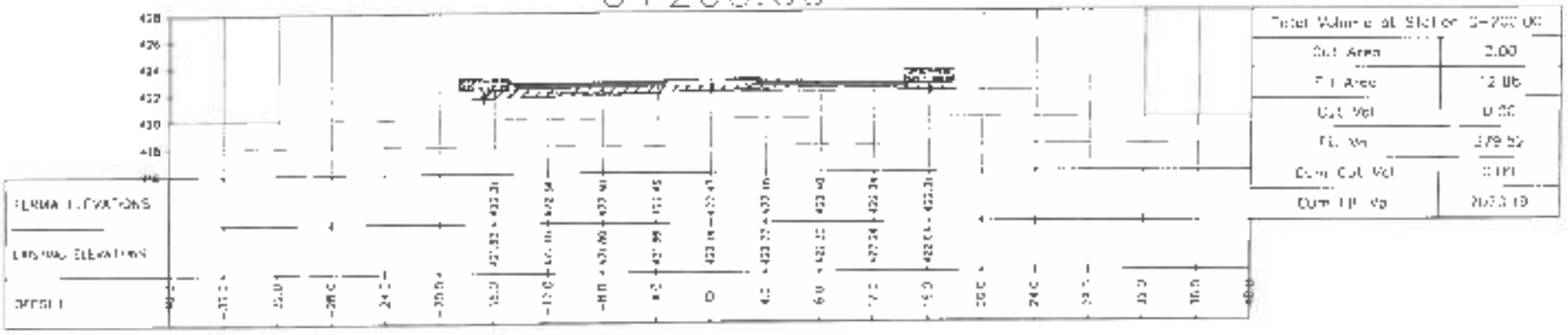


الشركة الهندسية
للطرق والكباري والصرف الصحي

0+200.00



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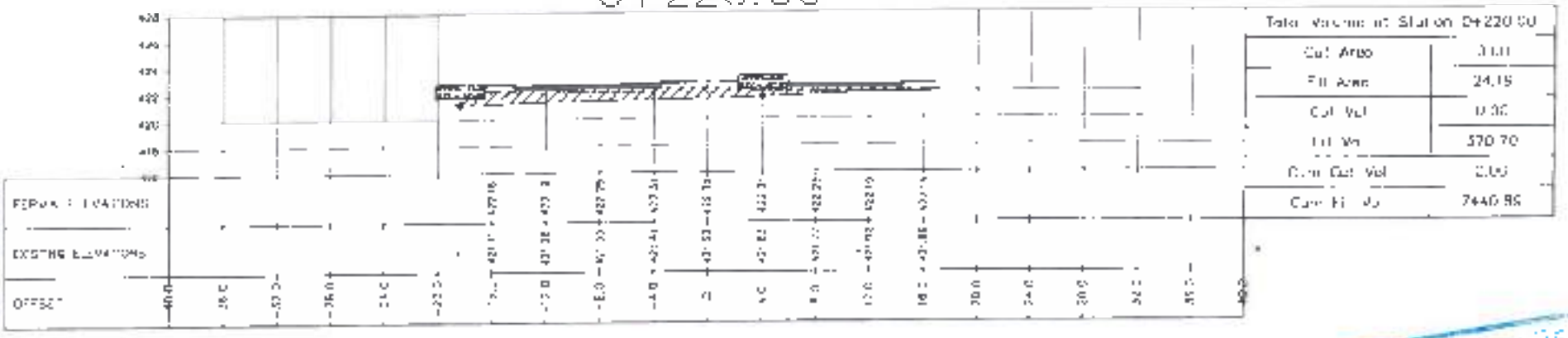

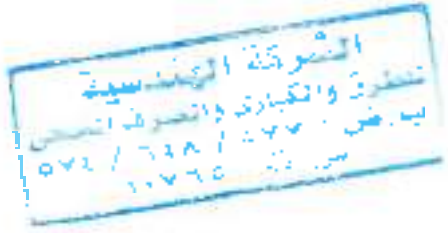

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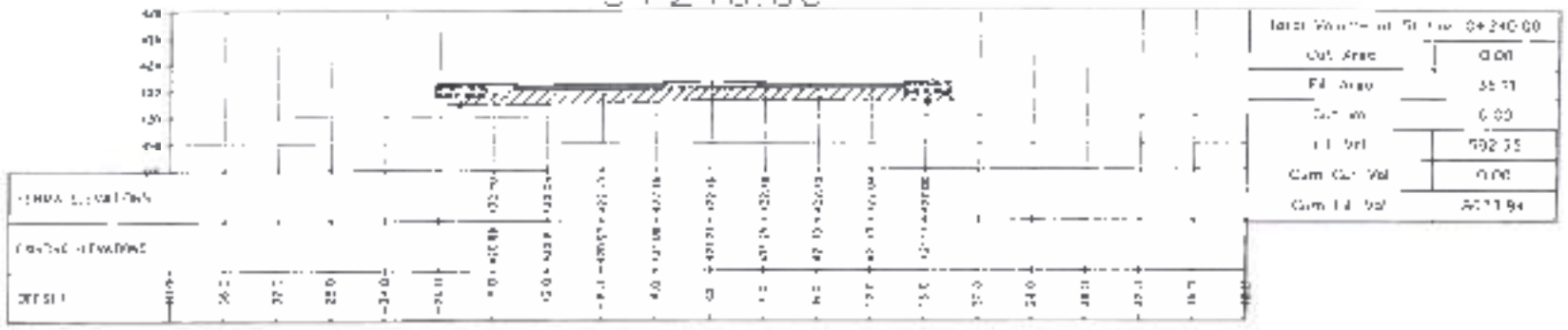

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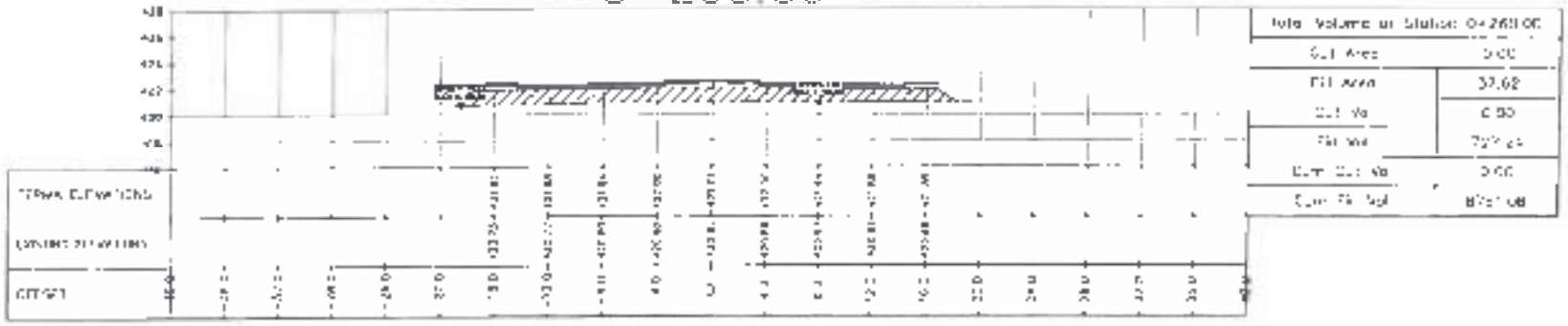

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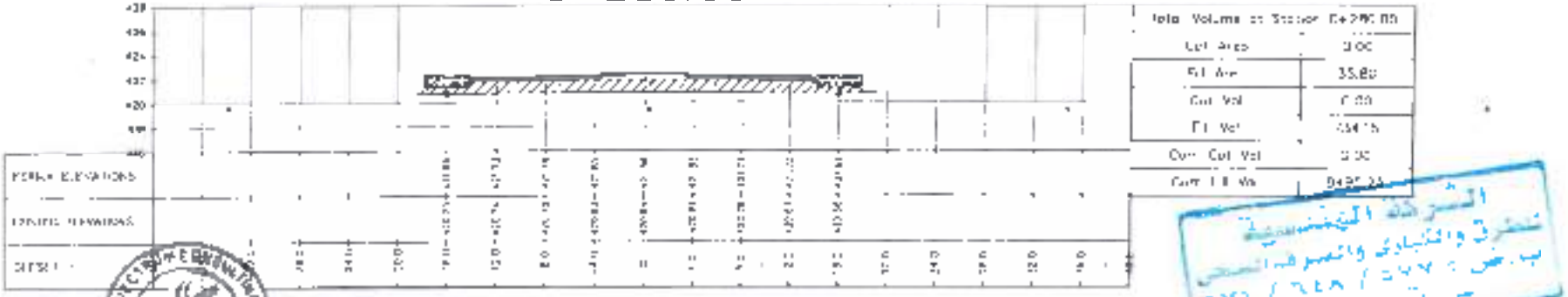

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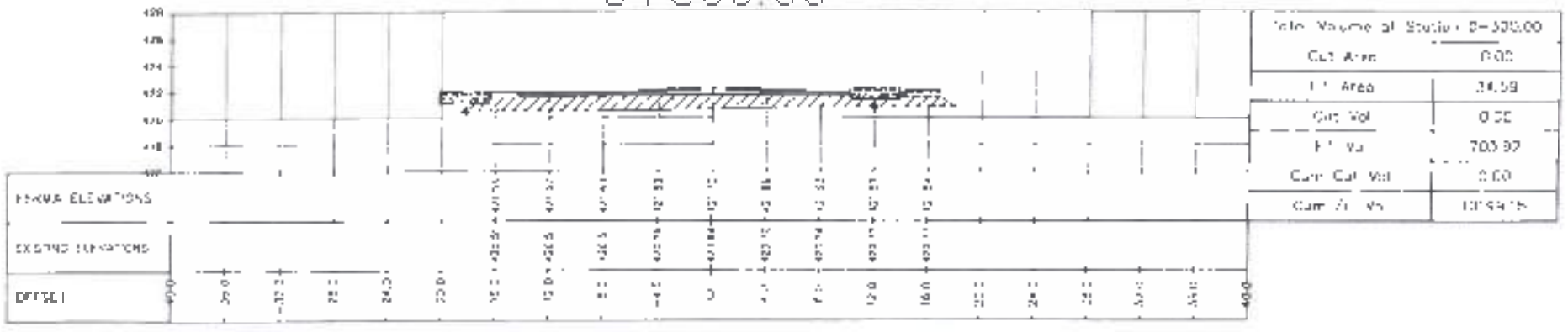
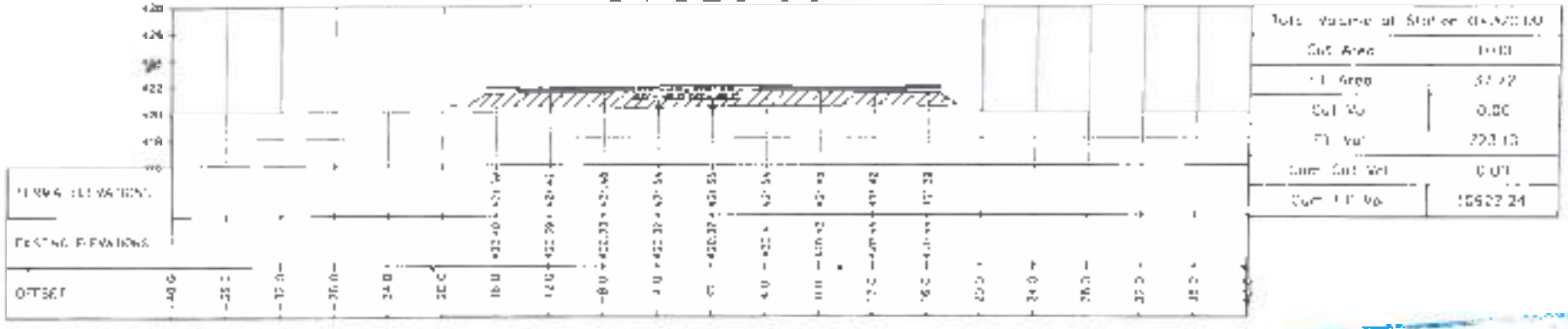


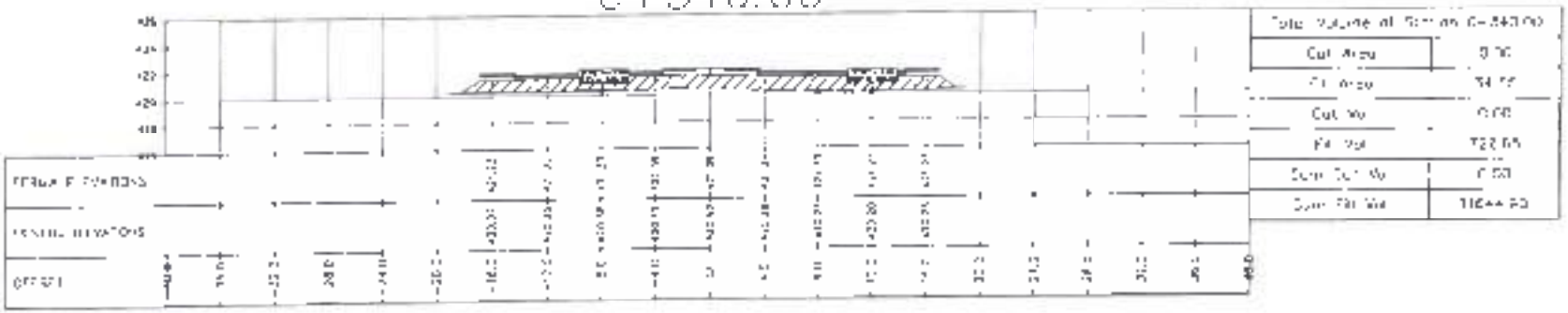
0+320.00



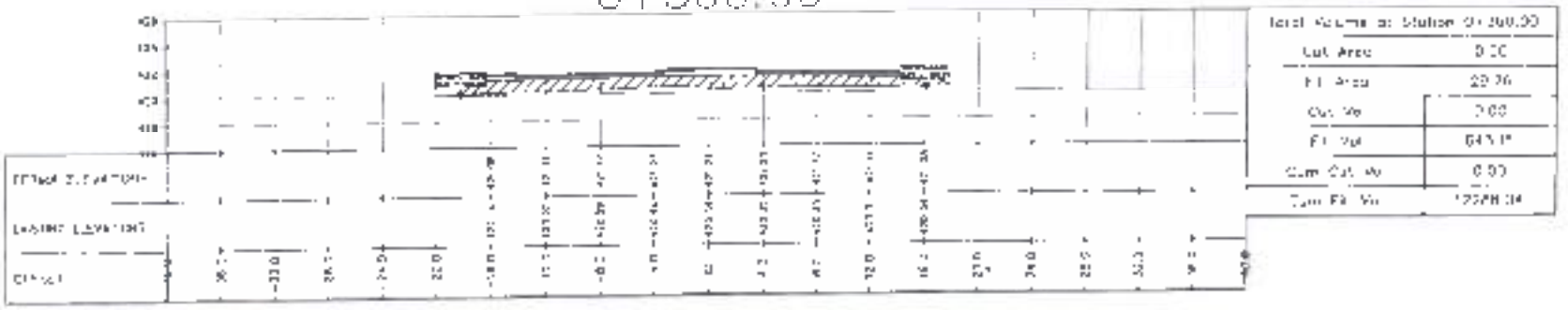
SPECTRUM CONSULTING

المعرفة الهندسية
للطرق والمشاريع والمعرفة الفنية

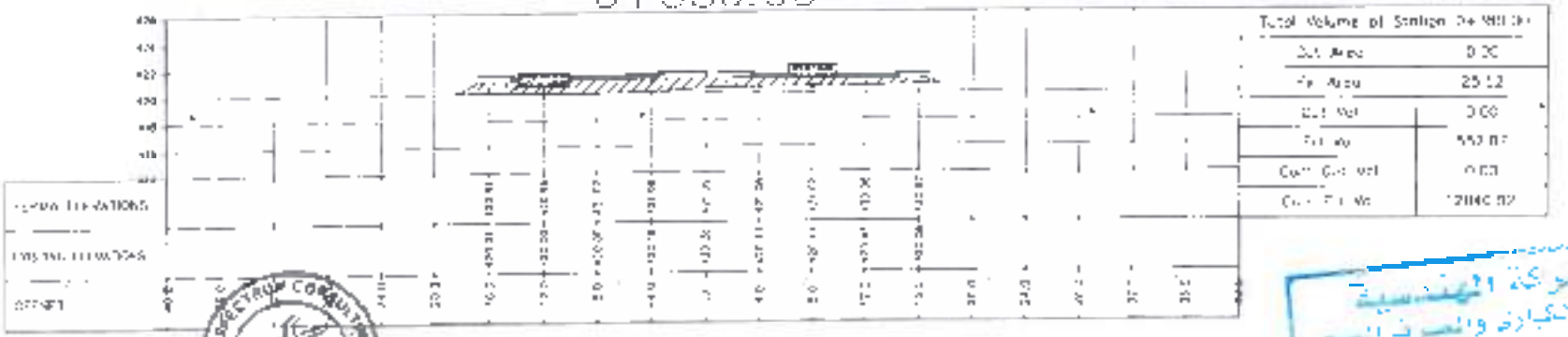
0+340.00



0+360.00



0+380.00



SPECTRUM CONSULTING

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING
S.A.E
3 ABD EL-KAWY AHMED St., MOHANDEESEEN - GIZA
Tel. : 3448413 • Fax. : 3031719

Project: Electric Express Train.15 May Sector — *File No.: 4800/S*

Client : الشركة الهندسية — *Date 15/12/2022*

Density of Soil In-Place By Sand-Cone Method (ASTM D-1556)

Date of testing	*14-12-22*
Location	*000+100 to 000+400*
Description Of Tested Material	*Stone , Gravel & Sand.*
Condition of the test	*Tested as found in the existing moisture content.*

Station	Level (m)	Bulk Density (gm/cm3)	Moisture Content (%)	Insitu Dry Density (gm/cm3)	Max Dry Density (gm/cm3)	Relative Compaction (%)
000+150	B.S.G	2.135	6.3	2.009	2.040	98.5
000+250	B.S.G	2.075	5.5	1.968	2.040	96.4
000+350	B.S.G	2.050	5.5	1.943	2.040	95.3

Notes:

1- Test location were chosen and identified by the consultant.

2-Maximum Dry Density value was provided by client.

Prepared by : Eng. Rody Yehia

ARDAMAN Split
Egypt Express Train Project

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.AE

3 ARD El. KAWY AHMED St. , MOHANDESEEN - GIZA
Tel. : 33448413 - Fax. : 33031719

Project: Electric Express Train - 15May Sector ***File No.: 4800/S***

Client: شركة الهندسية ***Date: 06/12/2022***

PARTICLE SIZE ANALYSIS OF SOILS AND MATERIALS FINER THAN # 200 Sieve ASTM D - 422

Sample delivery date: *05/12/2022*
Sample Identification No. : *Sample No. 932*
Source of sample: *SI Stock Pile Road 6*
Level (m) : *-*
Classification According to AASHTO: *A-1-b*
Percentage of materials finer than # 200: *16.1%*

Sieve No.	Opening (mm)	Percentage Passing %	
3 in.	75	100.0	
2.5 in.	63.5	100.0	
2 in.	50	100.0	
1.5 in.	38	100.0	
1 in.	25	99.7	
3/4 in.	19	97.9	
1/2 in.	12.5	94.1	
3/8 in.	9.5	90.8	
No. 4	4.75	78.8	
No. 10	2.0	65.3	
No. 40	0.425	48.7	
No. 200	0.075	16.1	

Notes:-

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rody Yehia

ARDAMAN Split
Egypt Express Train Project

Reviewed by : Eng.Osama Moftah

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E.

3 ABD EL KAWY AHMED St. , MOHANDESEEN - GIZA
Tel : 33448413 - Fax. : 33031719

Project: Electric Express Train - 15May Sector — *File No.: 4800/S*

Client: شركة الهندسية — *Date: 06/12/2022*

LIQUID LIMIT , PLASTIC LIMIT , AND PLASTICITY INDEX OF SOILS ACCORDING TO ASTM D4318

Sample delivery date: 05/12/2022

Sample Identification No. : Sample No. 932

Source of sample: St Stock Pile Road 6

Level (m) : _

Sample Identification No.	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)
Sample No. 932	25.1	19.2	5.9

- Notes:

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rody Yehia

ARDAMAN Split
Egypt Express Train Project

Reviewed by : Eng.Osama Moftah

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E

3 ABD EL-KAWY AHMED ST., MOHANDESEEN - GIZA
TEL.: 33468413 - FAX.: 33031719

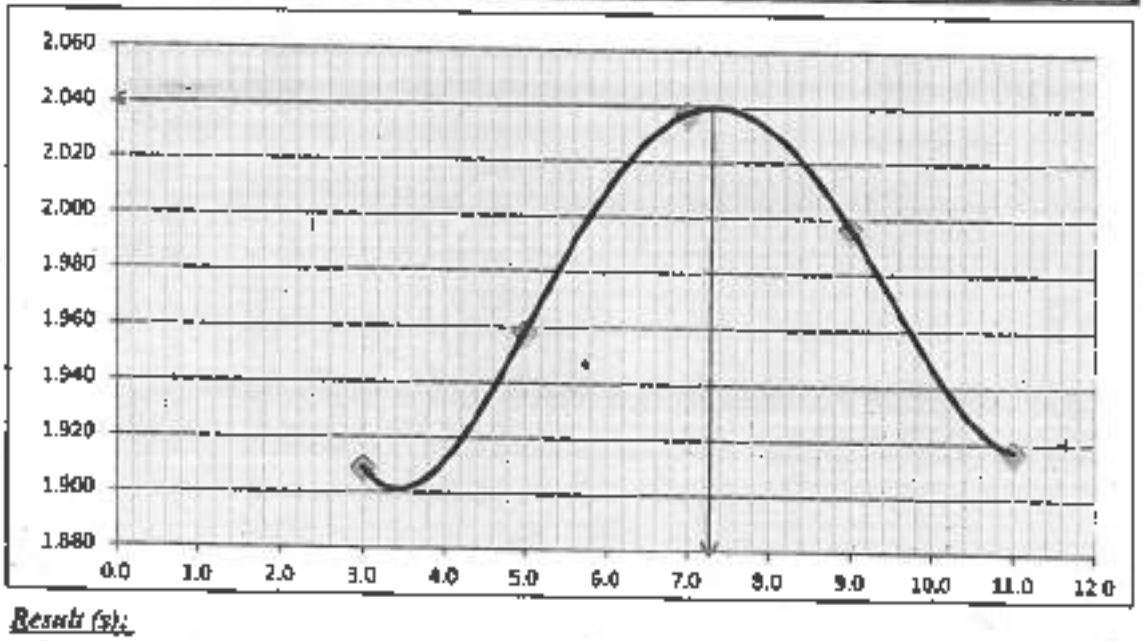
Project: Electric Express Train - 15May Sector *File No.: 4800/S*

Client: شركة الهندسية *Date: 06/12/2022*

MOISTURE DENSITY RELATIONSHIP OF SOIL ACCORDING TO ASTM D 1557

Sample delivery date: 05/12/2022
Sample Identification No. : Sample No. 932
Source of sample: St Stock Pile Road 6
Level (m) : –

Wet Unit Weight, gm/cm³	1.966	2.056	2.160	2.176	2.128
Water Content, %	3.0	5.0	7.0	9.0	11.0
Dry Unit Weight, gm/cm³	1.909	1.958	2.037	1.996	1.917



Result (s):

1- *Maximum dry density* = 2.040 t/m³
2- *Optimum moisture content* = 7.30 %

Note (s):

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rady Yehia

ARDAMAN Split
Egypt Express Train Project

Reviewed by : Eng. Osama Mofteh

UNIVERSAL INSPECTION REQUEST

RECEIPT of NOTIFICATION - Minimum Notice Period not less than 24 Hours
The Work described below will be complete and ready for inspection at planned time shown

Contractor Company			Designer Company	Spectrum
Issued by Contractor	Name: Mohamed Sayed	Sign:	Date: 18-12-2022	Time:
Contractor UIR Reference	20			
Received by ER	Abdellatif Attia (AATT-1a)		UIR	C1 C2 C3 D0 MM YY HH MM

CODE-1 S1 to S21 Station Reference	CODE-1 D1 to D3 Depot Reference	CODE-1 Km XXX For Kilometer point only	CODE-2 Work Activity	CODE-3 Sub Element of Activity

EXPLANATION OF WORK TO BE INSPECTED

Area*	Element	Item
ROAD-05 (0+000 TO 0+400)	FROM ST.(0+240) TO (0+380)	Layer Level (-0.75)

Inspection Description : (Right Side)

INSPECTION DETAILS The Following will be ready at the Planned Inspection Time

Planned Inspection Date	Planned Inspection Time

COMPLIANCE EVIDENCE Must be included as appropriate

Checklist Attached ☐	Test Results Attached☐	Calibration Attached☐	Other as indicated☐
Drawing Reference	ITP Reference		MS Reference
Other Attachments	Surveying sheets (Master sheets +cross sections + width sheet)		
Plan profile Rev	NA		NA

Comments by .GARB survey Consultant (XYZ)	Comments by: General Consultant: (SYSTRA)
Surveying works (levels-Coords-width) Are inspection and found work may :	

INSPECTION RESULT

	Name	Sign	Date	Time	Approval Status A AWC-H	Please Tick if Not Attend
Organisation: Contractor Engineer	Mohamed Sayed		18/12/2022			
Contractor QA/QC XYZ			18/12/2022		A	
Spectrum						
GARB* Employers Representative	Abdellatif Attia	(AATT-1a)	21-12-22		A	

* Alignment Bridges Culvert Only

Instructions for Use:

☐ The Contractor should continue work using their CHECKLIST of inspection items progressively

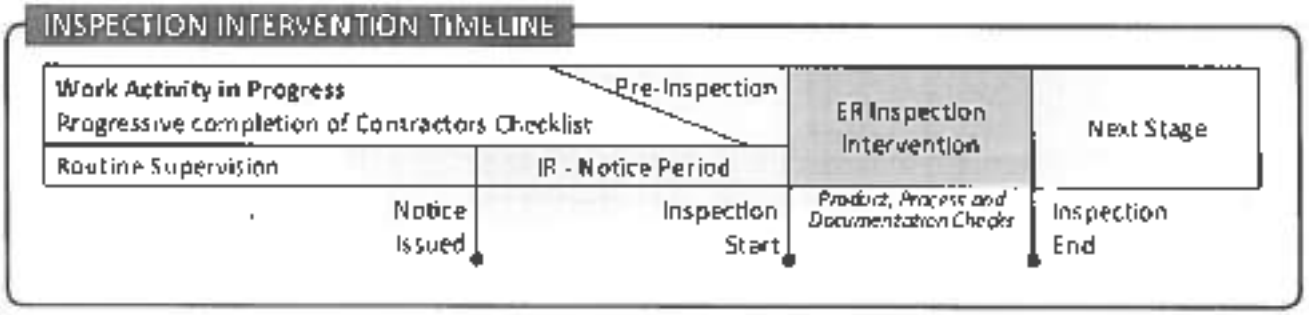
☐ The Contractor should do their own INTERNAL pre-inspection and correct any minor defects before final inspection and if necessary, advise Employer's Representative (ER) of possible delay to arrange correction. Contractor should update their CHECKLIST and their own INTERNAL Comments sheet to show the inspection is satisfactory completed.

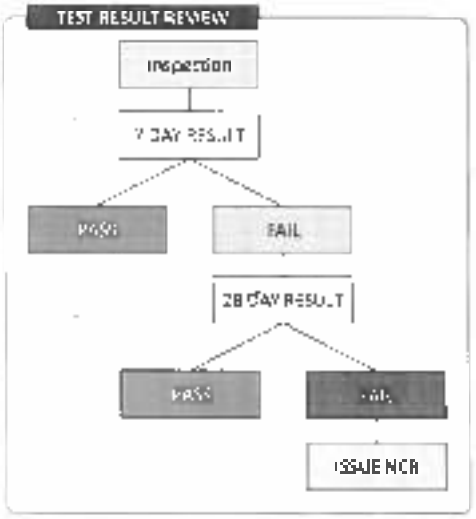
☐ The Contractor Engineer and their QA/QC team should sign the UIR Form before ER inspection. If the work is not ready, they should delay the inspection and not sign the UIR. Comments at this stage are not expected although eg: minor cleaning prior to concrete pour will be allowed

☐ The ER shall attend as indicated and check the Contractors supporting Drawings, Test results, Per-inspection signed sheets and check dimensions, alignment, workmanship, etc. If satisfied ER shall sign the UIR Code A = Approved, or shall add relevant comments and add AWC = Approved with Comments and the next stage may progress when the comments have been resolved, or shall add R - Rejected as the work is not satisfactory and must be corrected and reinspected

AWC or R will require a new UIR Form to be issued and the inspection process will re-start at a new date/time

☐ When Approved without comments, the next stage of work may progress





Inspection COMMENTS must be factual

Delayed test results may apply to every discipline at an inspection. When available, may require inspection records to be reviewed for previous work

It is known that tests results taken during inspection will be available at some date in the future (eg 7 and 28 Days).

The purpose of the UIR is to verify the work stage is ready to progress now. If the Work is ready to progress at the Inspection, then it must be Approved and allowed to progress without comment. This is to avoid returning to old AWC records and revise to A.

Review of Test Results is just another stage of the work activity, and result reviews have their own lifecycle. The test results shall be assessed when available, and if they fail to meet the necessary compliance requirements, an **NCR shall be issued** to track the correction process.

CENTER LINE FOR RIGHT SIDE INNER EDGE		
Station	**Easting**	**Northing**
0+000.00	682389.157	798299.971
0+020.00	682407.858	798306.841
0+040.00	682427.637	798309.792
0+060.00	682447.434	798312.637
0+080.00	682467.231	798315.481
0+100.00	682487.027	798318.326
0+120.00	682506.824	798321.171
0+140.00	682526.621	798324.015
0+160.00	682546.417	798326.860
0+180.00	682566.214	798329.705
0+200.00	682586.011	798332.549
0+220.00	682605.807	798335.394
0+240.00	682625.604	798338.239
0+260.00	682645.401	798341.083
0+280.00	682665.197	798343.928
0+300.00	682684.994	798346.773
0+320.00	682704.791	798349.617
0+340.00	682724.587	798352.462
0+360.00	682744.384	798355.307
0+380.00	682764.181	798358.151
0+400.00	682783.651	798360.949

الهيئة العامة
للطرق و الكباري و النقل البري
(GARBLT)

MASTER SHEET FOR RD-06 (ZONE 0+000 TO 0+400)

RIGHT SIDE

FILL

STATION	0+000	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160	0+180	0+200	0+220	0+240	0+260	0+280	0+300	0+320	0+340	0+360	0+380	0+400
FERMA LEVEL	423.80	423.74	423.66	423.55	423.40	423.24	423.09	422.93	422.78	422.63	422.47	422.32	422.16	422.01	421.86	421.70	421.55	421.39	421.24	421.09	420.93
Replacement LEVEL	422.84	422.59	422.44	422.32	422.25	422.00	421.79	421.58	421.65	421.74	422.04	421.63	421.11	420.87	420.66	420.75	420.37	420.20	420.34	420.00	420.44
Difference	0.96	1.15	1.22	1.22	1.15	1.24	1.30	1.35	1.13	0.89	0.43	0.69	1.05	1.14	1.20	0.95	1.18	1.19	0.90	1.09	0.49
BASE 1	423.90	423.84	423.76	423.65	423.50	423.34	423.19	423.03	422.88	422.73	422.57	422.42	422.26	422.11	421.96	421.80	421.65	421.49	421.34	421.19	421.03
BASE 2	424.05	423.99	423.91	423.80	423.65	423.49	423.34	423.18	423.03	422.88	422.72	422.57	422.41	422.26	422.11	421.95	421.80	421.64	421.49	421.34	421.18

	0	423.799	423.739	423.661	423.545	423.396	423.242	423.088	422.934	422.78	422.626	422.472	422.318	422.164	422.03	421.856	421.702	421.548	421.394	421.24	421.086	420.932
	0.25	423.549	423.489	423.411	423.295	423.146	422.992	422.838	422.684	422.53	422.376	422.222	422.068	421.914	421.76	421.606	421.452	421.298	421.144	420.99	420.836	420.682
	0.5	423.299	423.239	423.161	423.045	422.896	422.742	422.588	422.434	422.28	422.126		421.818	421.664	421.51	421.356	421.202	421.048	420.894	420.74	420.586	
→	0.75	423.049	422.989	422.911	422.795	422.646	422.492	422.338	422.184	422.03	421.876			421.414	421.26	421.106	420.952	420.798	420.644	420.49	420.336	
المستعمل	1		422.739	422.661	422.545	422.396	422.242	422.088	421.934	421.78				421.164	421.01	420.856		420.548	420.394		420.086	

مشروع القطار السريع / قطاع القاهرة

الشركة الهندسية
للطرق والكباري والصرف الصحي

قطاع الشركة الهندسية للطرق والكباري والمرقب الصحي

طبقة : -0.75

ST	Left								C.L	Right							
	SIDE WAKE		ROAD					SIDE WAKE		SIDE WAKE		ROAD					SIDE WAKE
	16.93	S=0%	13.3	12.0	8.0	4.0	S=1.5%	2.5		2.5	S=1.5%	4.0	8.0	12.0	23.30	S=0%	16.93
0+000	422.89	0%	422.89	422.91	422.97	423.03	1.5%	423.05	423.05	423.05	1.5%	423.03	422.97	422.91	422.97	0%	422.89
0+020	422.83	0%	422.83	422.85	422.91	422.97	1.5%	422.99	422.99	422.99	1.5%	422.97	422.91	422.85	422.91	0%	422.83
0+040	422.75	0%	422.75	422.77	422.82	422.89	1.5%	422.91	422.91	422.91	1.5%	422.89	422.83	422.77	422.75	0%	422.75
0+060	422.68	0%	422.68	422.65	422.71	422.77	1.5%	422.80	422.80	422.80	1.5%	422.77	422.71	422.65	422.69	0%	422.63
0+080	422.48	0%	422.48	422.50	422.56	422.62	1.5%	422.65	422.65	422.65	1.5%	422.62	422.56	422.50	422.48	0%	422.48
0+100	422.33	0%	422.33	422.35	422.41	422.47	1.5%	422.49	422.49	422.49	1.5%	422.47	422.41	422.35	422.33	0%	422.33
0+120	422.18	0%	422.18	422.20	422.26	422.32	1.5%	422.34	422.34	422.34	1.5%	422.32	422.26	422.20	422.18	0%	422.18
0+140	422.02	0%	422.02	422.04	422.10	422.16	1.5%	422.18	422.18	422.18	1.5%	422.16	422.10	422.04	422.02	0%	422.02
0+160	421.87	0%	421.87	421.89	421.95	422.01	1.5%	422.03	422.03	422.03	1.5%	422.01	421.95	421.89	421.87	0%	421.87
0+180	421.71	0%	421.71	421.73	421.79	421.85	1.5%	421.87	421.88	421.88	1.5%	421.85	421.79	421.73	421.71	0%	421.71
0+200	421.56	0%	421.56	421.58	421.64	421.70	1.5%	421.72	421.72	421.72	1.5%	421.70	421.64	421.58	421.58	0%	421.56
0+220	421.41	0%	421.41	421.43	421.49	421.55	1.5%	421.57	421.57	421.57	1.5%	421.55	421.49	421.43	421.41	0%	421.41
0+240	421.25	0%	421.25	421.27	421.33	421.39	1.5%	421.41	421.41	421.41	1.5%	421.39	421.33	421.27	421.25	0%	421.25
0+260	421.10	0%	421.10	421.12	421.18	421.24	1.5%	421.26	421.26	421.26	1.5%	421.24	421.18	421.12	421.10	0%	421.10
0+280	420.94	0%	420.94	420.96	421.02	421.08	1.5%	421.11	421.11	421.11	1.5%	421.08	421.02	420.96	420.94	0%	420.94
0+300	420.79	0%	420.79	420.81	420.87	420.93	1.5%	420.95	420.96	420.96	1.5%	420.93	420.87	420.81	420.79	0%	420.79
0+320	420.64	0%	420.64	420.66	420.72	420.78	1.5%	420.80	420.80	420.80	1.5%	420.78	420.72	420.66	420.64	0%	420.64
0+340	420.48	0%	420.48	420.50	420.56	420.62	1.5%	420.64	420.64	420.64	1.5%	420.62	420.56	420.50	420.48	0%	420.48
0+360	420.33	0%	420.33	420.35	420.41	420.47	1.5%	420.49	420.49	420.49	1.5%	420.47	420.41	420.35	420.33	0%	420.33
0+380	420.17	0%	420.17	420.19	420.25	420.31	1.5%	420.34	420.34	420.34	1.5%	420.33	420.25	420.19	420.17	0%	420.17
0+400	420.02	0%	420.02	420.04	420.10	420.16	1.5%	420.18	420.18	420.18	1.5%	420.16	420.10	420.04	420.02	0%	420.02

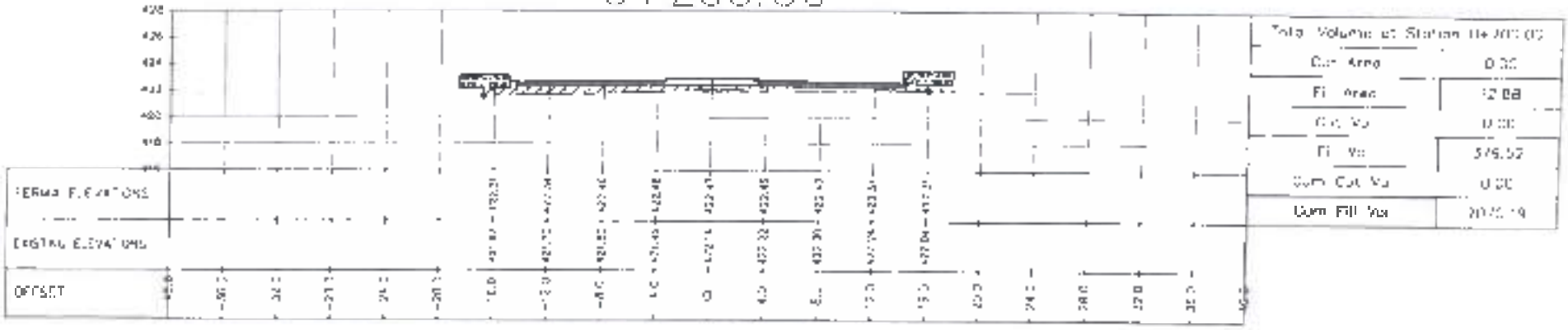
0+240 → 0+380

مشروع الطريق الدائري - قطاع العاصمة

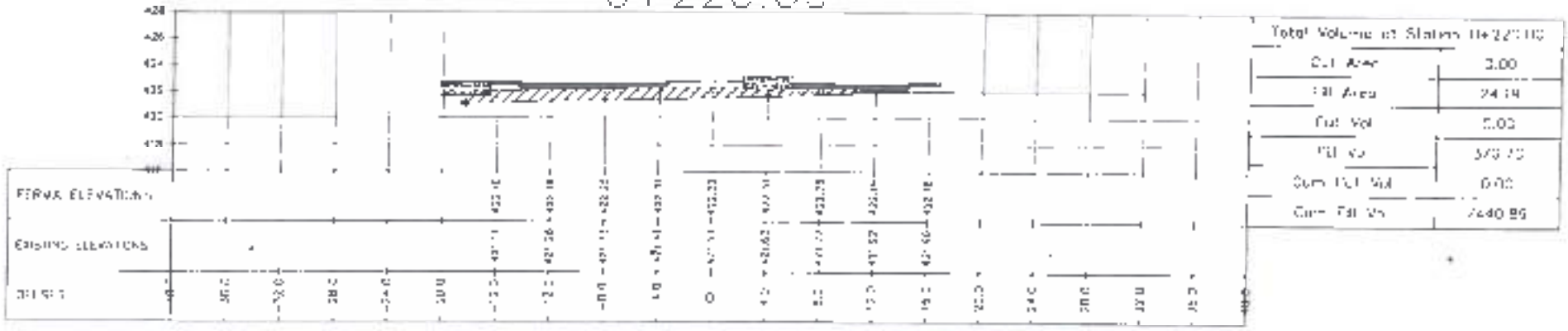
LAYERS WIDTH FROM 0+000 TO 0+400

Width Left	Layer	Width Right	Total Width
15.80	ferma	15.80	31.60
16.17	-0.25	16.17	32.34
16.55	-0.50	16.55	33.10
16.92	-0.75	16.92	33.84

0+200.00

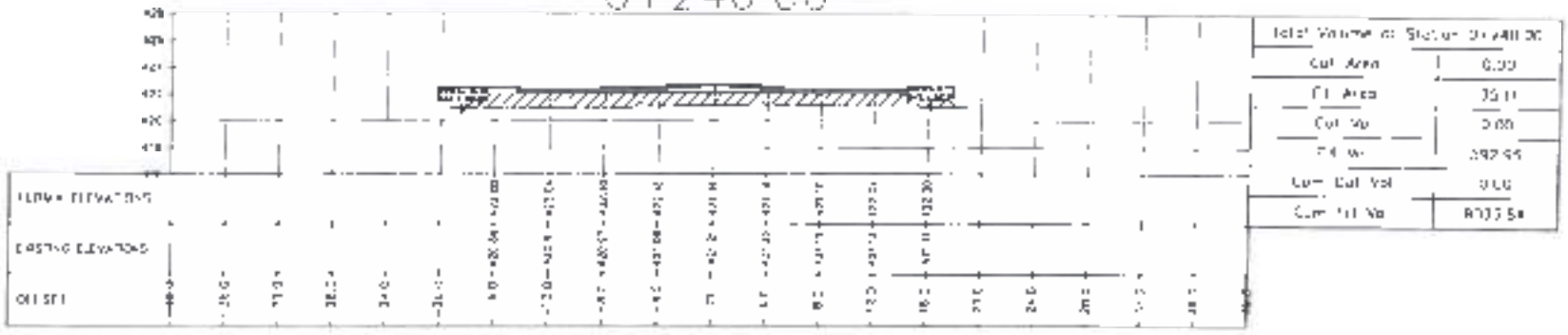


0+220.00

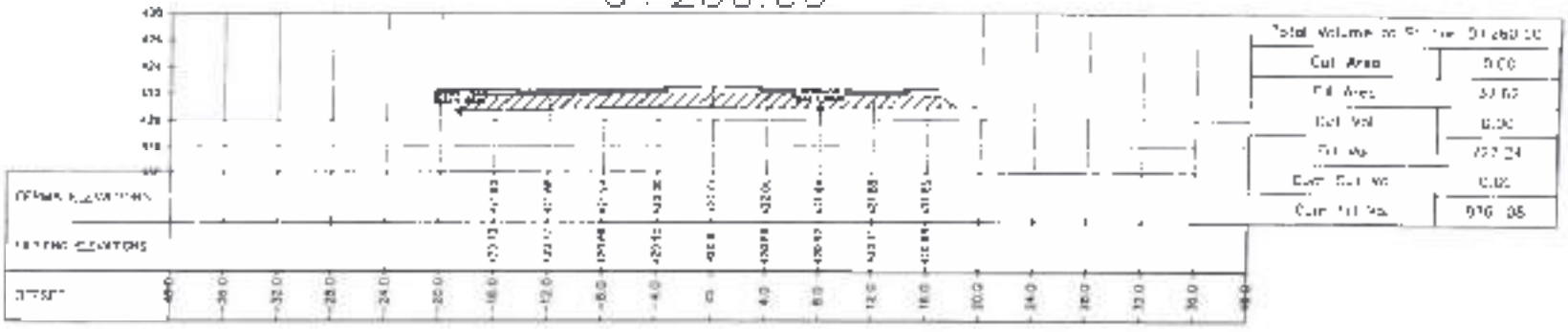


الشركة الهندسية
للطرق والكباري والصرف الصحي
ب.ص ٥٧٧ / ٦٤٨ / ٥٧٤
١٠٧٦٥

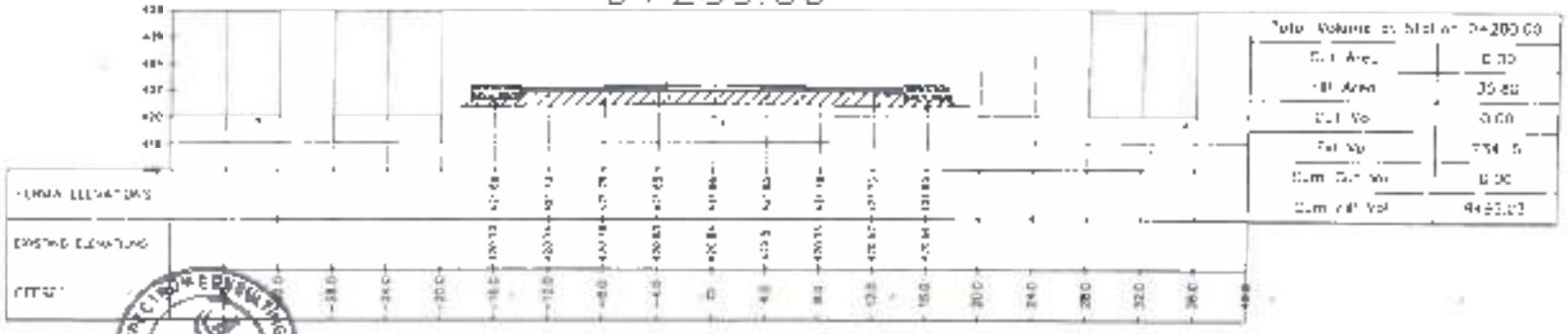
0+240.00



0+260.00



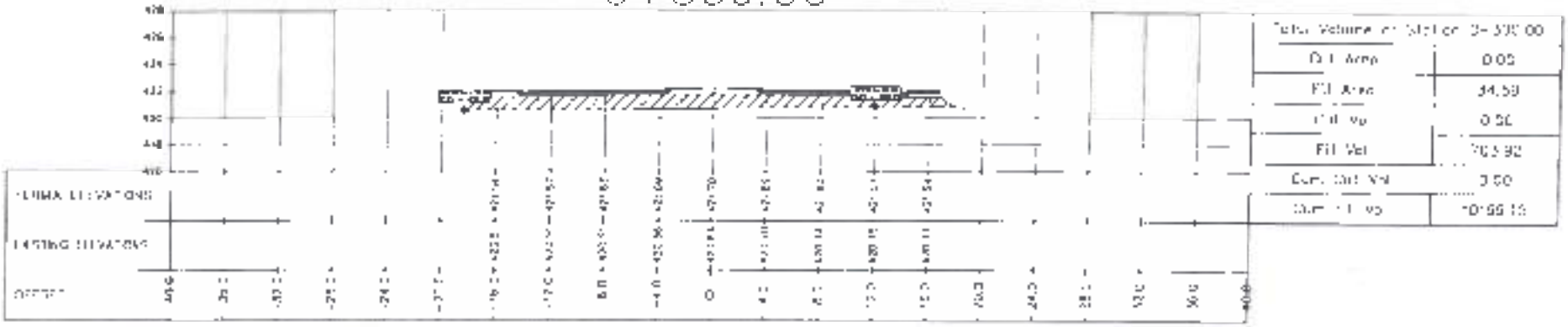
0+280.00



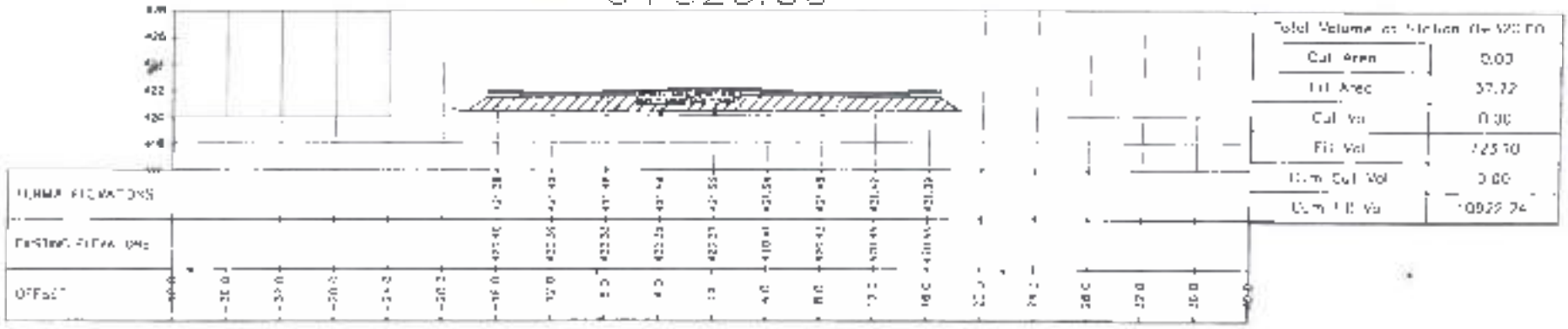
SPECTRUM ENGINEERING CONTRACTING

الشركة الهندسية
للطرق والجسور وتعبيد المطارات

0+300.00

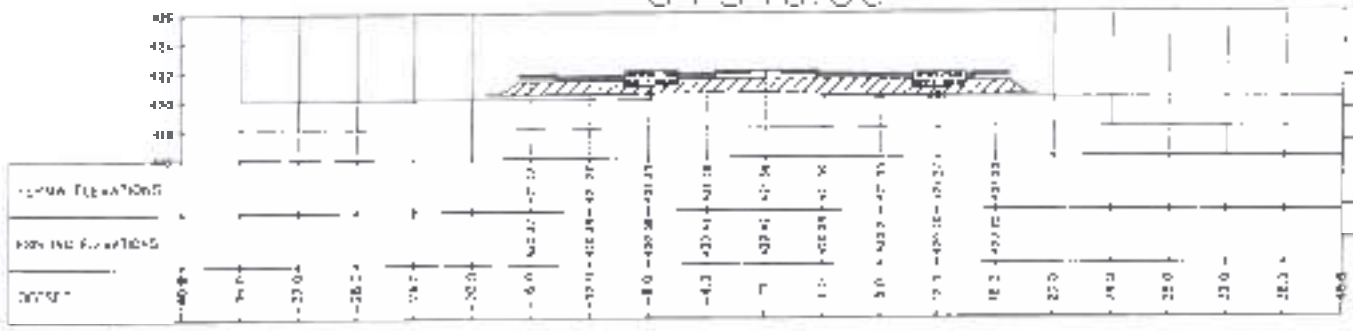


0+320.00



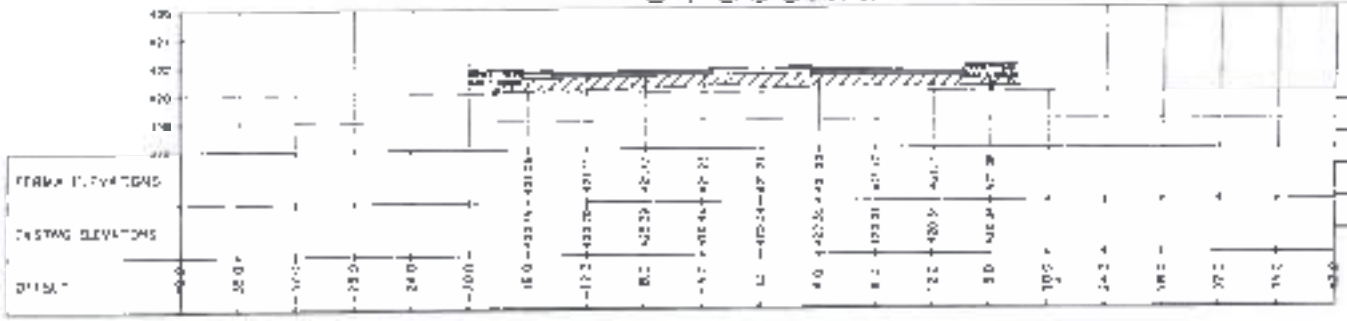
الشركة الهندسية
للطرق والجسور والصرف الصحي

0+340.00



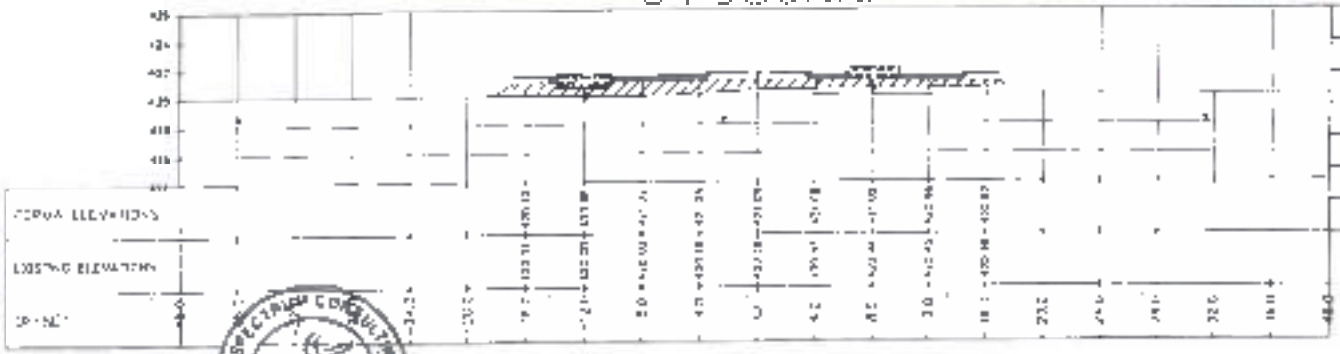
Total Volume at Station 0+340.00	
Cut Area	0.00
Fill Area	34.55
Cut Vol	0.00
Fill Vol	227.93
Cum Cut Vol	0.00
Cum Fill Vol	11644.80

0+360.00



Total Volume at Station 0+360.00	
Cut Area	0.00
Fill Area	29.75
Cut Vol	0.00
Fill Vol	645.15
Cum Cut Vol	0.00
Cum Fill Vol	12566.64

0+380.00



Total Volume at Station 0+380.00	
Cut Area	0.00
Fill Area	25.62
Cut Vol	0.00
Fill Vol	552.97
Cum Cut Vol	0.00
Cum Fill Vol	13566.07

SELECTRUM CONSULTING

الشركة الهندسية
للمقاولات والتجارة والصرف الصحي
ب.ص / ٦٤٨ / ٥٧٧
١٠٧٦٢

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E
3 ABD EL-KAWY AHMED St., MOHANDESEEN - GIZA
Tel.. 3448413 - Fax. : 3031719

Project: Electric Express Train.15 May Sector — **File No.: 4800/S**

Client : الشركة الهندسية — **Date 19/12/2022**

Density of Soil In-Place By Sand-Cone Method (ASTM D-1556)

Date of testing	18-12-22
Location	000+240 to 000+380
Description Of Tested Material	Stone Gravel & Sand.
Condition of the test	Tested as found in the existing moisture content.

Station	Level (m)	Bulk Density (gm/cm3)	Moisture Content (%)	Insitu Dry Density (gm/cm3)	Max Dry Density (gm/cm3)	Relative Compaction (%)
000+250	-0.75	1.955	6.4	1.838	2.040	90.1
000+350	-0.75	1.943	5.5	1.842	2.040	90.3

Notes:

1- Test location were chosen and identified by the consultant.

2-Maximum Dry Density value was provided by client.

ARDAMAN Split
Egypt Express Train
Project

Prepared by : Eng. Rady Yehia

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E
3 ABD EL-KAWY AHMED St , MOHANDEESEEN - GIZA
Tel. : 3448413 - Fax. : 3031719

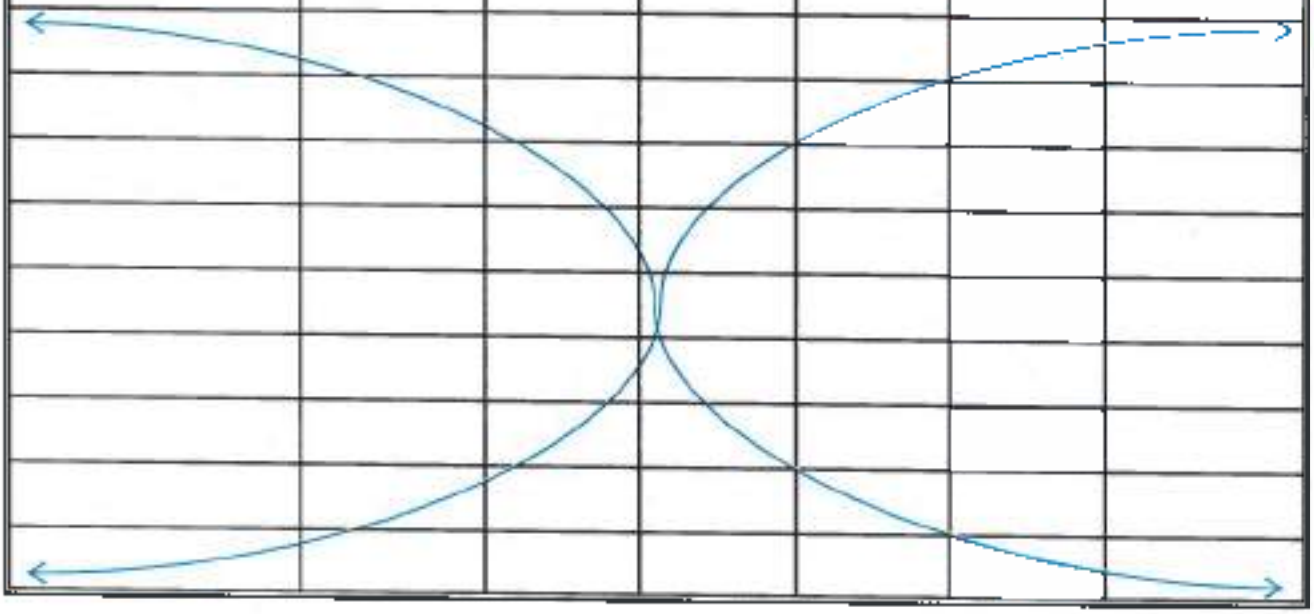
Project: Electric Express Train.15 May Sector — *File No.: 4800/S*

Client . الشركة الهندسية — *Date 21/12/2022*

Density of Soil In-Place By Sand-Cone Method (ASTM D-1556)

Date of testing	*20-12-22*
Location	*000+240 to 000+380 (Retest)*
Description Of Tested Material	*Stone , Gravel & Sand.*
Condition of the test	*Texted as found in the existing moisture content.*

Station	*Level (m)*	*Bulk Density (gm/cm3)*	*Moisture Content (%)*	*Insitu Dry Density (gm/cm3)*	*Max Dry Density (gm/cm3)*	*Relative Compaction (%)*
000+280	*-0.75*	*2.085*	*6.4*	*1.959*	*2.040*	*96.1*
000+360	*-0.75*	*2.121*	*6.5*	*1.991*	*2.040*	*97.6*



Notes:

1- Test location were chosen and identified by the consultant.

2-Maximum Dry Density value was provided by client.

Prepared by : Eng. Rody Yehia

ARDAMAN Split
Egypt Express Train
Project

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.AE

3 ABD EL KAWY AHMED St. , MOHANDESEEN - GIZA
Tel. : 33448413 - Fax. : 33031719

Project: Electric Express Train - 15May Sector ***File No.: 4800/S***

Client: شركة الهندسية ***Date: 06/12/2022***

PARTICLE SIZE ANALYSIS OF SOILS AND MATERIALS FINER THAN # 200 Sieve ASTM D - 422

Sample delivery date: *05/12/2022*
Sample Identification No. : *Sample No. 932*
Source of sample: *St Stock Pile Road 6*
Level (m) : -
Classification According to AASHTO: *A-1-b*
Percentage of materials finer than # 200: *16.1%*

Sieve No.	Opening (mm)	Percentage Passing %	
3 in.	75	100.0	
2.5 in.	63.5	100.0	
2 in.	50	100.0	
1.5 in.	38	100.0	
1 in.	25	99.7	
3/4 in.	19	97.9	
1/2 in.	12.5	94.1	
3/8 in.	9.5	90.8	
No. 4	4.75	78.8	
No. 10	2.0	65.3	
No. 40	0.425	40.7	
No. 200	0.075	16.1	

Notes:-

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rody Yehia

ARDAMAN Split
Egypt Express Train Project

Reviewed by : Eng.Osama Mofiah

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E

3 ABD EL-KAWY AHMED ST., MOHANDESEEN - GIZA
TEL.: 33448413 – FAX.: 33031719

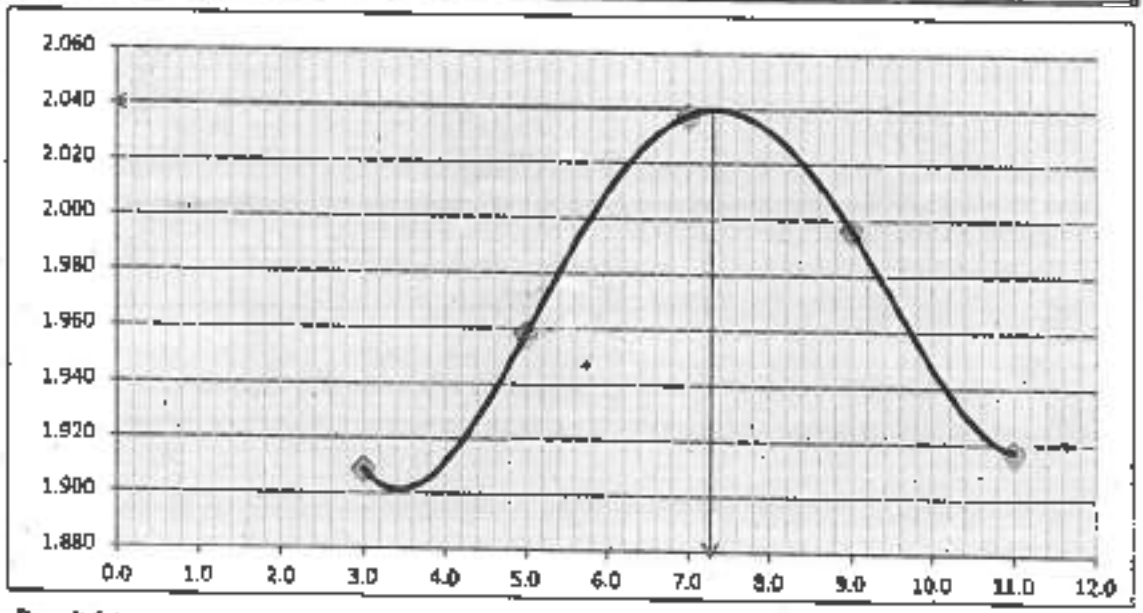
Project: Electric Express Train - 15May Sector — *File No.: 4800/S*

Client: شركة الهندسية — *Date: 06/12/2022*

MOISTURE DENSITY RELATIONSHIP OF SOIL ACCORDING TO ASTM D 1557

Sample delivery date: 05/12/2022
Sample Identification No. : Sample No. 932
Source of sample: St Stock Pile Road 6
Level (m) : –

Wet Unit Weight, gm/cm³	1.966	2.056	2.180	2.176	2.128
Water Content, %	3.0	5.0	7.0	9.0	11.0
Dry Unit Weight, gm/cm³	1.909	1.958	2.037	1.996	1.917



Result (s):

1- Maximum dry density = 2.040 t/m³
2- Optimum moisture content = 7.30 %

Note (s):

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rady Fehis

ARDAMAN Split
Egypt Express Train Project

Reviewed by : Eng.Ossama Mufdah

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E

3 ABD EL KAWY AHMED St. , MOHANDESEEN - GIZA
Tel. : 33448413 - Fax. : 33031719

Project: Electric Express Train - 15May Sector — *File No.: 4800/S*

Client: شركة الهندسية — *Date: 06/12/2022*

LIQUID LIMIT , PLASTIC LIMIT , AND PLASTICITY INDEX OF SOILS ACCORDING TO ASTM D4318

Sample delivery date: 05/12/2022

Sample Identification No. : Sample No. 932

Source of sample: St Stock Pile Road 6

Level (m) : -

Sample Identification No.	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)
Sample No. 932	25.1	19.2	5.9

- Notes:

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rody Yehia

ARDAMAN Split
Egypt Express Train
Project

Reviewed by : Eng.Osama Moftah

ARDAMAN *Split*

MATERIALS AND CONSTTRUCTION TESTING, SAE

3 ABD EL-KAWY AHMED St., MOHANDEESEEN - GIZA (Tel. : 33448413 - Mobile : 01006836248)

Project: Electric Express Train - 15 May Sector		**File No.**	4800/S
		Date	06/12/2022

CHEMICAL ANALYSIS REPORT

Letter Ref. No.	ARD-CH	50	Testing Date :6/12/2022

Type *of* Tested Material	**SOIL** (Ref.: AASHTO T-267)
Delivery Date	05/12/2022

Sample Code No.	Source	Level	Station	Organic Matter Content, %
932	شركة الهندسية	Stockpile	Road-6	0.562

Criteria *of* Acceptance	1.0%

Note :	*The Samples were found Complying with the Project Specs.*

Prepared By: Chem/ Mina Ayman

ARDAMAN Split
Egypt Express Train
Project

UNIVERSAL INSPECTION REQUEST

RECEIPT of NOTIFICATION - Minimum Notice Period not less than 24 Hours
The Work described below will be complete and ready for inspection at planned time shown

Contractor Company			Designer Company	Spectrum	
Issued by Contractor	Name: Mohamed Sayed	Sign	Date: 20-12-2022	Time	
Contractor UIR Reference	21				
Received by ER	Abdelhadi Attia	AAttia	UIR		

CODE-1 S1 to S21 Station Reference	CODE-1 D1 to D3 Depot Reference	CODE-1 Kp XXX For Kilometer point only	CODE-2 Work Activity	CODE-3 Sub Element of Activity
S1	D1	Kp	C2	C3

DD	MM	YY	HH	MM

EXPLANATION OF WORK TO BE INSPECTED

Area	Element	Item
AGAD-06 (0+000 TO 0+400)	FROM ST. (0+000 TO (0+120)	Layer Level (-0.75)

Inspection Description: (Right side)

INSPECTION DETAILS The Following will be ready at the Planned Inspection Time

Planned Inspection Date	Planned Inspection Time

COMPLIANCE EVIDENCE Must be included as appropriate

Checklist Attached ☐	Test Results Attached ☐	Calibration Attached ☐	Other as indicated ☐
Drawing Reference	ITP Reference		MS Reference
Other Attachments	Surveying sheets (Master sheets -cross sections + width sheet)		
Plan profile Rev	NA		NA

Comments by: GARB survey Consultant (XYZ)	Comments by: General Consultant (SYSTRA)
Surveying works (levels-Coords-width) Are inspection and found . work may .	

INSPECTION RESULT

	Name	Sign	Date	Time	Approval Status	Please Tick if Not Attend
Organisation						
Contracting Engineer	Mohamed Sayed		20-12-2022		A-AWC R	
Contractor QA/QC XYZ	Abdelhadi Attia		20-12-2022 16:30		A-AWC	
Contractor QA/QC Spectrum						
GARB*						
Employers Representative	Abdelhadi Attia	AAttia	21-12-22		Awc	

* Alignment, Bridges Civil Only

Instructions for Use:

☐ The Contractor should continue work using their CHECKLIST of inspection items progressively

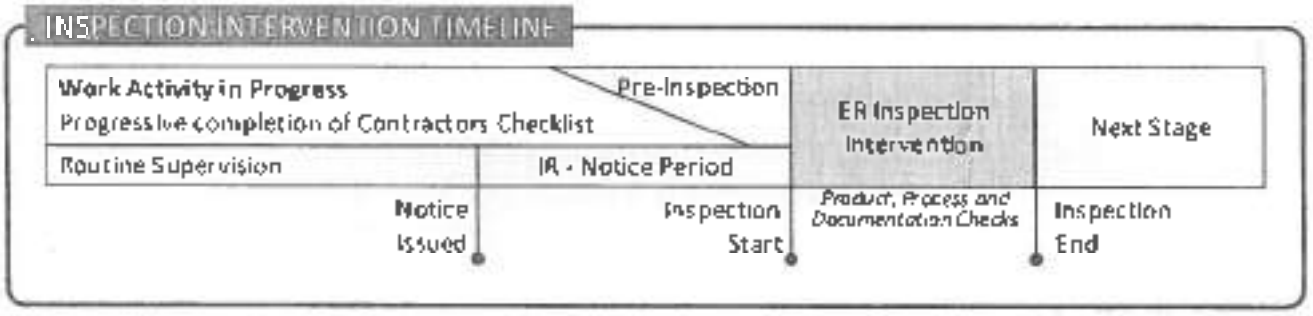
☐ The Contractor should do their own INTERNAL pre-inspection and correct any minor defects before final inspection and if necessary, advise Employer's Representative (ER) of possible delay to arrange correction Contractor should update their CHECKLIST and their own INTERNAL Comments sheet to show the inspection is satisfactory completed.

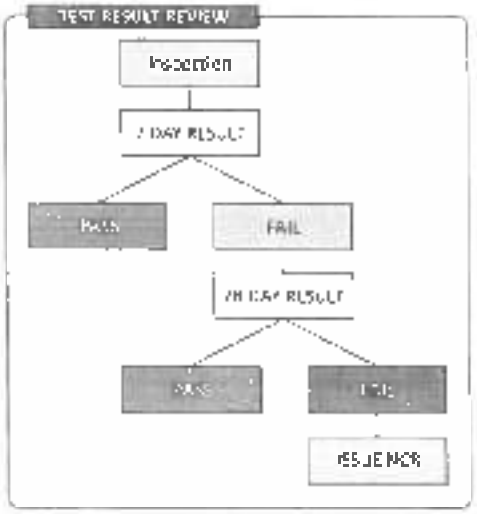
☐ The Contractor Engineer and their QA/QC team should sign the UIR Form before ER inspection. If the work is not ready, they should delay the inspection and not sign the UIR Comments at this stage are not expected although eg: minor cleaning prior to concrete pour will be allowed

☐ The ER shall attend as indicated and check the Contractors supporting Drawings, Test results, Per-inspection signed sheets and check dimensions, alignment, workmanship, etc. If satisfied ER shall sign the UIR Code A = Approved, or shall add relevant comments and add AWC = Approved with Comments and the next stage may progress when the comments have been resolved, or shall add R = Rejected as the work is not satisfactory and must be corrected and reinspected

AWC or R will require a new UIR Form to be issued and the inspection process will re-start at a new date/time

☐ When Approved without comments, the next stage of work may progress





Inspection COMMENTS must be factual

Delayed test results may apply to every discipline at an inspection. When available, may require inspection records to be reviewed for previous work.

It is known that tests results taken during inspection will be available at some date in the future (eg 7 and 28 Days).

The purpose of the UIR is to verify the work stage is ready to progress now. If the Work is ready to progress at the Inspection, then it must be Approved and allowed to progress without comment. This is to avoid returning to old AWC records and revise to A.

Review of Test Results is just another stage of the work activity, and result reviews have their own lifecycle. The test results shall be assessed when available, and if they fail to meet the necessary compliance requirements, an **NCR** shall be issued to track the correction process.

Right

CENTER LINE FOR LEFT SIDE		
Station	Easting	Northing
0+000.00	682389.157	798299.971
0+020.00	682407.858	798306.841
0+040.00	682427.637	798309.792
0+060.00	682447.434	798312.637
0+080.00	682467.231	798315.481
0+100.00	682487.027	798318.326
0+120.00	682506.824	798321.171
0+140.00	682526.621	798324.015
0+160.00	682546.417	798326.860
0+180.00	682566.214	798329.705
0+200.00	682586.011	798332.549
0+220.00	682605.807	798335.394
0+240.00	682625.604	798338.239
0+260.00	682645.401	798341.083
0+280.00	682665.197	798343.928
0+300.00	682684.994	798346.773
0+320.00	682704.791	798349.617
0+340.00	682724.587	798352.462
0+360.00	682744.384	798355.307
0+380.00	682764.181	798358.151
0+400.00	682783.651	798360.949

الشركة الهندسية
للغرف والمباني والصرف الصحي
ب.ص : ٥٧٧ / ٦٢٨
س.ت : ٥٧٤ / ١٠٧٦٥

LAYERS WIDTH FROM 0+000 TO 0+400

Width Left	Layer	Width Right	Total Width
15.80	ferma	15.80	31.60
16.17	-0.25	16.17	32.34
16.55	-0.50	16.55	33.10
16.92	-0.75	16.92	33.84

الشركة الهندسية
للطرق والكباري والصرف الصحي
ت / ٠٧٤ / ٦٤٨٧٧٧٠

الهيئة العامة
للطرق و الكباري و النقل البري
(GARBLT)

MASTER SHEET FOR RD-06 (ZONE 0+000 TO 0+400)

RIGHT SIDE

CHAINAGE	0+000	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160	0+180	0+200	0+220	0+240	0+260	0+280	0+300	0+320	0+340	0+360	0+380	0+400
PERUNA LEVEL	423.80	423.74	423.68	423.55	423.46	423.24	423.09	422.92	422.79	422.63	422.47	422.32	422.17	422.01	421.86	421.70	421.55	421.39	421.24	421.09	420.93
Redevelopment LEVEL	422.84	422.59	422.46	422.32	422.25	422.00	421.79	421.67	421.65	421.74	422.04	421.67	421.11	420.87	420.96	420.75	420.57	420.39	420.34	420.00	420.44
Difference	0.96	1.15	1.22	1.22	1.15	1.24	1.30	1.25	1.13	0.89	0.43	0.65	1.05	1.14	1.20	0.95	1.28	1.15	0.90	1.09	0.49

	0	423.799	423.739	423.601	423.545	423.396	423.242	423.096	422.934	422.78	422.626	422.472	422.318	422.164	422.01	421.855	421.702	421.548	421.394	421.24	421.086	420.932
	0.25	423.549	423.489	423.411	423.295	423.146	422.992	422.838	422.684	422.53	422.376	422.222	422.068	421.914	421.76	421.605	421.452	421.298	421.144	420.99	420.836	420.682
	0.5	423.299	423.239	423.161	423.045	422.896	422.742	422.586	422.434	422.28	422.126		421.818	421.664	421.51	421.356	421.202	421.048	420.894	420.74	420.586	
	0.75	423.049	422.989	422.911	422.795	422.646	422.492	422.335	422.184	422.03	421.876			421.414	421.26	421.106	420.952	420.798	420.644	420.49	420.336	
تعديل	1		422.739	422.661	422.545	422.396	422.242	422.086	421.934	421.78				421.164	421.01	420.856		420.548	420.394		420.086	

المستشار : شركة ...
للطرق والكباري والتصوف العمراني
ب. ص : ٥٧٧ / ٦٢٨
س. ت : ١٠٧٦٥

الهيئة العامة للطرق و الكباري و النقل البري
(GARBLT)

قطاع الشركة الهندسية للطرق والكباري والصرف الصحي

طبقة : -0.75

ST	Left								C.L	Right							
	SIDE WAKE		ROAD					SIDE WAKE		SIDE WAKE		ROAD					SIDE WAKE
	16.93	S-0%	11.3	12.0	8.0	4.0	S=1.5%	2.5		2.5	S=1.5%	4.0	8.0	12.0	13.30	S=0%	16.91
0+000	422.89	0%	422.81	422.93	422.93	423.05	1.5%	423.05	423.09	423.20	1.5%	423.08	422.97	422.81	422.89	0%	422.89
0+020	422.81	0%	422.83	422.85	422.91	422.97	1.5%	422.99	422.99	422.79	1.5%	422.93	422.93	422.85	422.83	0%	422.83
0+040	422.75	0%	422.75	422.77	422.83	422.89	1.5%	422.91	422.91	422.81	1.5%	422.85	422.83	422.77	422.75	0%	422.75
0+060	422.63	0%	422.61	422.65	422.71	422.77	1.5%	422.80	422.80	422.50	1.5%	422.73	422.71	422.65	422.63	0%	422.63
0+080	422.46	0%	422.48	422.50	422.56	422.62	1.5%	422.65	422.65	422.65	1.5%	422.67	422.58	422.50	422.48	0%	422.48
0+100	422.34	0%	422.33	422.35	422.41	422.47	1.5%	422.49	422.49	422.49	1.5%	422.47	422.41	422.35	422.33	0%	422.33
0+120	422.18	0%	422.18	422.20	422.26	422.32	1.5%	422.34	422.34	422.34	1.5%	422.32	422.26	422.20	422.18	0%	422.18
0+140	422.02	0%	422.02	422.04	422.10	422.16	1.5%	422.18	422.18	422.18	1.5%	422.16	422.10	422.04	422.02	0%	422.02
0+160	421.87	0%	421.87	421.89	421.95	422.01	1.5%	422.03	422.03	422.03	1.5%	422.01	421.95	421.89	421.87	0%	421.87
0+180	421.71	0%	421.73	421.73	421.79	421.85	1.5%	421.88	421.88	421.88	1.5%	421.85	421.79	421.73	421.71	0%	421.71
0+200	421.56	0%	421.56	421.58	421.64	421.70	1.5%	421.72	421.72	421.72	1.5%	421.70	421.64	421.58	421.56	0%	421.56
0+220	421.41	0%	421.41	421.43	421.49	421.55	1.5%	421.57	421.57	421.57	1.5%	421.55	421.49	421.43	421.41	0%	421.41
0+240	421.25	0%	421.25	421.27	421.33	421.39	1.5%	421.41	421.41	421.41	1.5%	421.39	421.33	421.27	421.25	0%	421.25
0+260	421.10	0%	421.10	421.12	421.18	421.24	1.5%	421.26	421.26	421.25	1.5%	421.24	421.18	421.13	421.10	0%	421.10
0+280	420.94	0%	420.94	420.96	421.02	421.08	1.5%	421.11	421.11	421.11	1.5%	421.08	421.02	420.96	420.94	0%	420.93
0+300	420.79	0%	420.79	420.81	420.87	420.93	1.5%	420.95	420.96	420.95	1.5%	420.93	420.87	420.81	420.79	0%	420.79
0+320	420.64	0%	420.64	420.66	420.72	420.78	1.5%	420.80	420.80	420.80	1.5%	420.78	420.72	420.66	420.64	0%	420.64
0+340	420.48	0%	420.48	420.50	420.56	420.62	1.5%	420.64	420.64	420.64	1.5%	420.62	420.56	420.50	420.48	0%	420.48
0+360	420.33	0%	420.31	420.35	420.41	420.47	1.5%	420.49	420.49	420.49	1.5%	420.47	420.41	420.35	420.33	0%	420.33
0+380	420.17	0%	420.17	420.19	420.25	420.31	1.5%	420.34	420.34	420.34	1.5%	420.31	420.25	420.19	420.17	0%	420.17
0+400	420.02	0%	420.02	420.04	420.10	420.16	1.5%	420.18	420.18	420.18	1.5%	420.16	420.10	420.04	420.02	0%	420.02

الشركة الهندسية
للطرق والكباري والصرف الصحي
ت ف . ٥٧٢ / ٦٠ / ٥٧٤
س.ت ٦٠٧٦٥

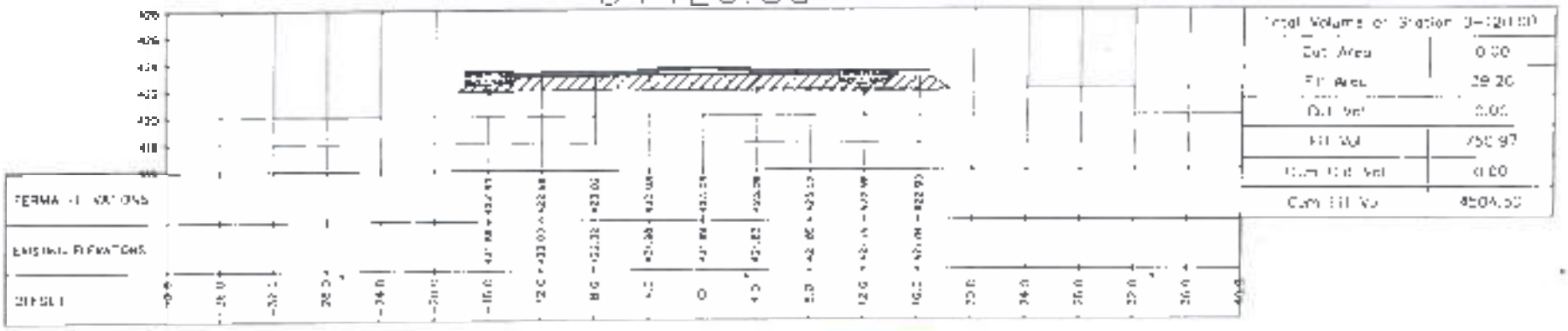
مشروع الطريق الدائري قطاع القاهرة

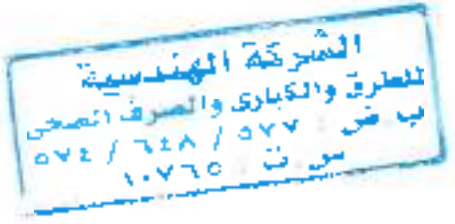
0+000.00
0-020.00

0+040.00
0+060.00
0+080.00

0+100.00

0+120.00





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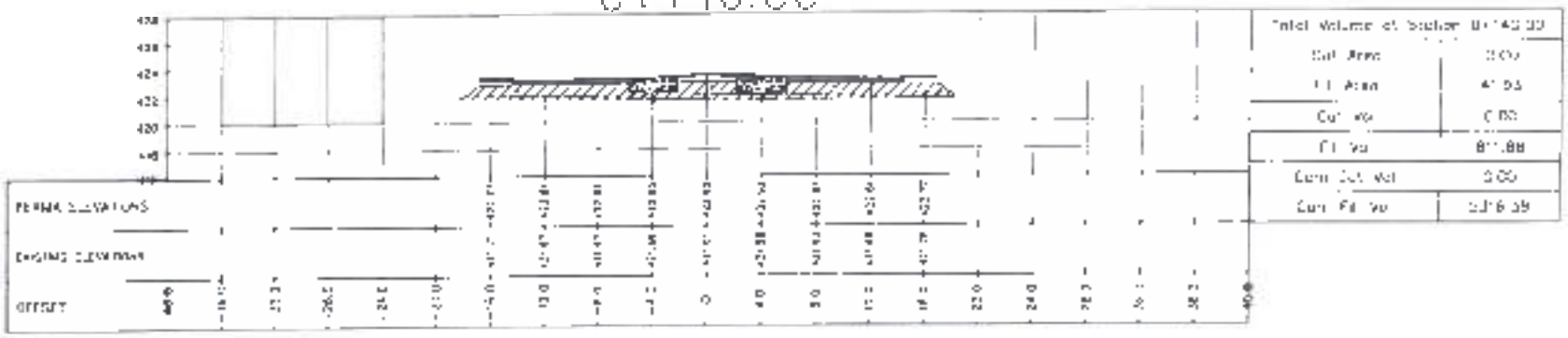

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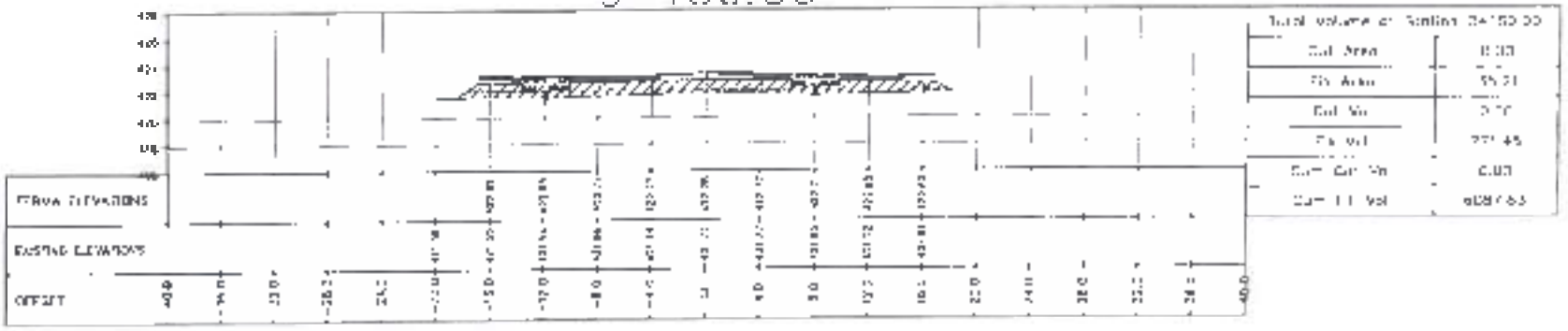

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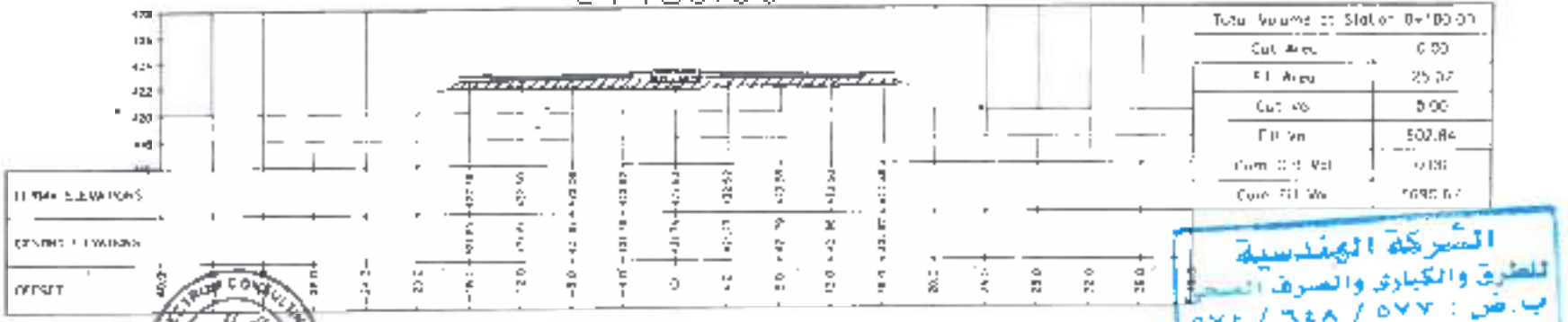


SPECTRUM CONSULTING

الشركة الهندسية
للطرق والكباري والصرف الصحي
ب.ص : ٥٧٧ / ٦٤٨ / ٥٧٤
س.ت : ١٠٧٦٥

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E
3 ABD EL-KAWY AHMED St. . MOHANDEESEEN - GIZA
Tel. : 3448413 - Fax : 3031719

Project: Electric Express Train.15 May Sector — *File No.: 4800/S*

Client : الشركة المصرية — *Date 21/12/2022*

Density of Soil In-Place By Sand-Cone Method (ASTM D-1556)

Date of testing	*20-12-22*
Location	*000+000 to 000+180*
Description Of Tested Material	*Stone , Gravel & Sand*
Condition of the test	*Tested as found in the existing moisture content.*

Station	*Level (m)*	*Bulk Density (gm/cm3)*	*Moisture Content (%)*	*Insitu Dry Density (gm/cm3)*	*Max Dry Density (gm/cm3)*	*Relative Compaction (%)*
000+050	*-0.75*	*2.131*	*6.6*	*1.999*	*2.040*	*98.0*
000+140	*-0.75*	*2.146*	*6.5*	*2.015*	*2.040*	*98.8*

Notes:

1- Test location were chosen and identified by the consultant.

2-Maximum Dry Density value was provided by client.

Prepared by :-Eng. Rody Yehia

ARDAMAN Split
Egypt Express Train
Project

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING

S.A.E

3 ABD EL KAWY AHMED St. , MOHANDESEEN - GIZA

Tel. : 33448413 - Fax. : 33031719

Project: Electric Express Train – 15May Sector — File No.: 4800/S

Client: شركة الهندسية — Date: 06/12/2022

PARTICLE SIZE ANALYSIS OF SOILS AND MATERIALS FINER THAN # 200 Sieve ASTM D - 422

Sample delivery date: 05/12/2022

Sample Identification No. : Sample No. 932

Source of sample: St Stock Pile Road 6

Level (m) : -

Classification According to AASHTO: A-1-b

Percentage of materials finer than # 200: 16.1%

Sieve No.	Opening (mm)	Percentage Passing %	
3 in	75	100.0	
2.5 in.	63.5	100.0	
2 in.	50	100.0	
1.5 in.	38	100.0	
1 in.	25	99.7	
3/4 in.	19	97.9	
1/2 in.	12.5	94.1	
3/8 in.	9.5	90.8	
No. 4	4.75	78.8	
No. 10	2.0	65.3	
No. 40	0.425	48.7	
No. 200	0.075	16.1	

Notes:-

1-The sample is provided by the consultant and under its own responsibility.

Prepared by : Eng. Rady Yehia

ARDAMAN Split
Cairo Express Train Project

Reviewed by : Eng.Osama Mofiah

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E

3 ABD EL KAWY AHMED St , MOHANDESEEN - GIZA
Tel. : 33448413 - Fax. : 33031719

Project: Electric Express Train - 15May Sector *File No.: 4800/S*

Client: شركة الهندسية *Date: 06/12/2022*

LIQUID LIMIT , PLASTIC LIMIT , AND PLASTICITY INDEX OF SOILS ACCORDING TO ASTM D4318

Sample delivery date: 05/12/2022

Sample Identification No. : Sample No. 932

Source of sample: St Stock Pile Road 6

Level (m) : -

Sample Identification No.	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)
Sample No. 932	25.1	19.2	5.9

- Notes:

1- The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rody Yehia

ARDAMAN Split
Egypt Express Train Project

Reviewed by : Eng.Osama Moftah

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E

3 ABD EL-KARY AHMED ST., MOHANDESSEEN - GIZA
TEL.: 33448613 - FAX.: 33031719

Project: Electric Express Train - 15May Sector

File No.: 4800/S

Client: شركة الهندسية

Date: 06/12/2022

MOISTURE DENSITY RELATIONSHIP OF SOIL ACCORDING TO ASTM D 1557

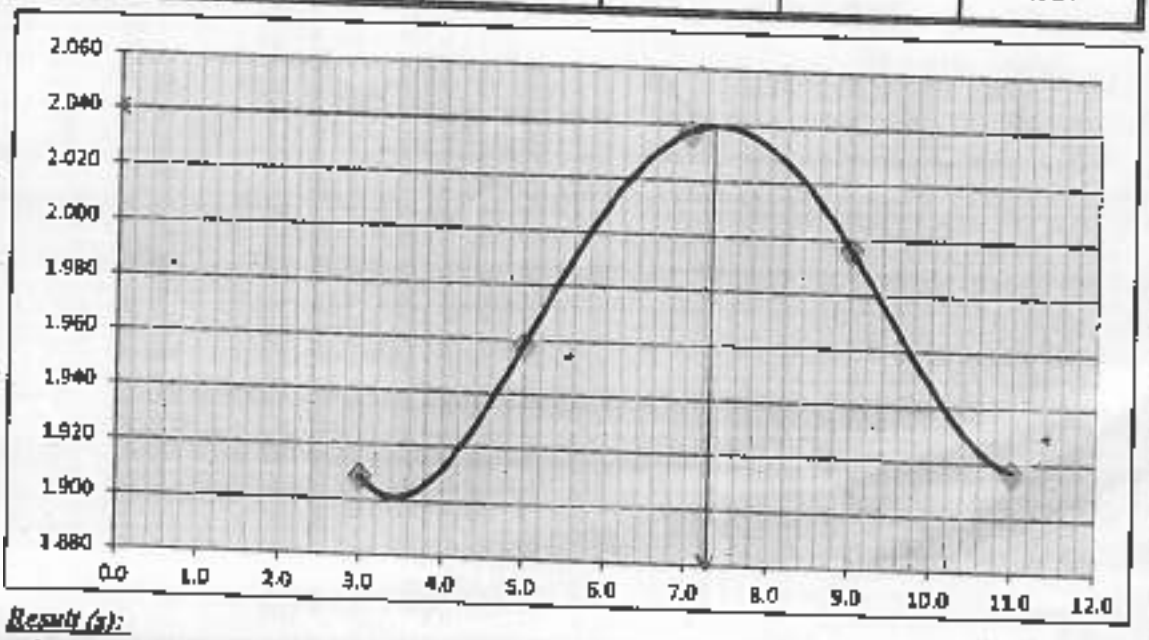
Sample delivery date: 05/12/2022

Sample Identification No. : Sample No. 932

Source of sample: St Stock Pile Road 6

Level (m) : –

Wet Unit Weight, gm/cm³	1.966	2.056	2.180	2.176	2.128
Water Content, %	3.0	5.0	7.0	9.0	11.0
Dry Unit Weight, gm/cm³	1.909	1.958	2.037	1.996	1.917



Result (s):

1- Maximum dry density = 2.040 t/m³
2- Optimum moisture content = 7.30 %

Note (s):

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Ragy Yehia

ARDAMAN Split
Egypt Express Train Project

Reviewed by : Eng. Ossama Mostafa

ARDAMAN *Split*

MATERIALS AND CONSTTRUCTION TESTING, SAE
3 ABD EL-KAWY AHMED St., MOHANDEESEEN - GIZA (Tel. : 33448413 - Mobile : 01006038248)

Project: Electric Express Train - 15 May Sector	File No.	4800/S
	Date	06/12/2022

CHEMICAL ANALYSIS REPORT

Letter Ref. No.	ARD-CH	50	Testing Date :6/12/2022

Type *of* Tested Material	SOIL (Ref.: AASHTO T-267)
Delivery Date	05/12/2022

Sample Code No.	Source	Level	Station	Organic Matter Content, %
932	شركة الهندسية	Stockpile	Road-6	0.562

Criteria *of* Acceptance	1.0%

Note :	*The Samples were found Complying with the Project Specs.*

Prepared By: Chem/ Mina Ayman

ARDAMAN Split
Egypt Express Train
Project

UNIVERSAL INSPECTION REQUEST

RECEIPT of NOTIFICATION - Minimum Notice Period not less than 24 Hours The Work described below will be complete and ready for inspection at planned time shown									
Contractor Company				Designer Company		Spectrum			
Issued by Contractor	Name: Mohamed Sayed	Sign		Date: 22-12-2022		Time			
Contractor UIR Reference	22								
Received by ER	Abdullah Attia	AAttia	UIR	C1: S1	C2: Sm Ew	C3: 1st Part	DD	MM	YY	HH	MM

CODE-1 S1 to S21 Station Reference	CODE-1 D1 to D3 Depot Reference	CODE-1 Km XXX For Kilometer point only	CODE-2 Work Activity	CODE-3 Sub Element of Activity

EXPLANATION OF WORK TO BE INSPECTED		
Area	Element	Item
ROAD-06 (0+000 TO 0+400)	FROM ST.(0+220) TO(0+580)	Layer Level (-0.50)
Inspection Description . (Right Side)		

INSPECTION DETAILS The Following will be ready at the Planned Inspection Time	
Planned Inspection Date	Planned Inspection Time
.	

COMPLIANCE EVIDENCE Must be included as appropriate			
Checklist Attached ☐	Test Results Attached☐	Calibration Attached☐	Other as indicated☐
Drawing Reference	ITP Reference	MS Reference	
Other Attachments	Surveying sheets (Master sheets +cross sections + width sheet)		
Plan profile Rev	NA	NA	

Comments by :GARB survey Consultant (XYZ)	Comments by: General Consultant (SYSTRA)
Surveying works (levels-Coords-width) Are Inspection and found . work may .	2

	INSPECTION RESULT				Approval Status	Please Tick if Not Attend
Organisation	Name	Sign	Date	Time		
Contractor Engineer	Mohamed sayed		22-12-2022		A-AWC R	
Contractor QA/QC XYZ			22-12-2022		A	
Contractor QA/QC Spectrum						
GARB*						
Employers Representative	Abdullah Attia	AAttia	24-12-22		A	

* Alignment, Bridges, Culvert Only

Instructions for Use:

☐ The Contractor should continue work using their CHECKLIST of inspection items progressively

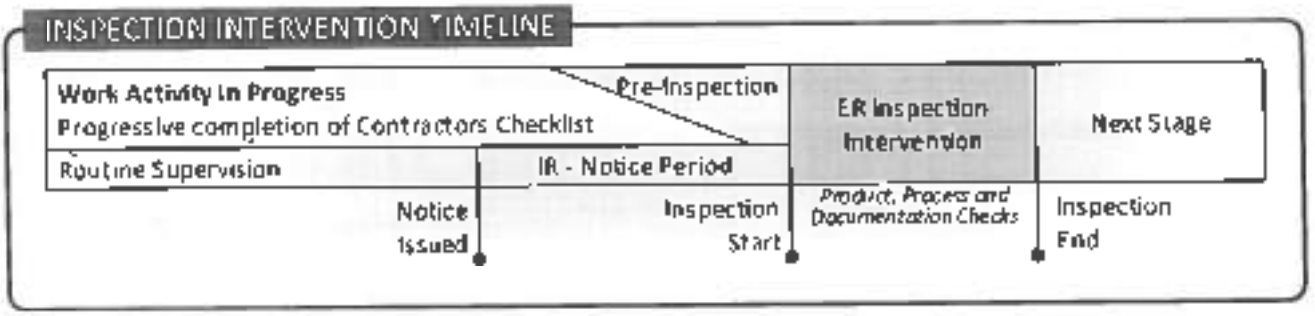
☐ The Contractor should do their own INTERNAL pre-inspection and correct any minor defects before final inspection and if necessary, advise Employer's Representative (ER) of possible delay to arrange correction. Contractor should update their CHECKLIST and their own INTERNAL Comments sheet to show the inspection is satisfactory completed.

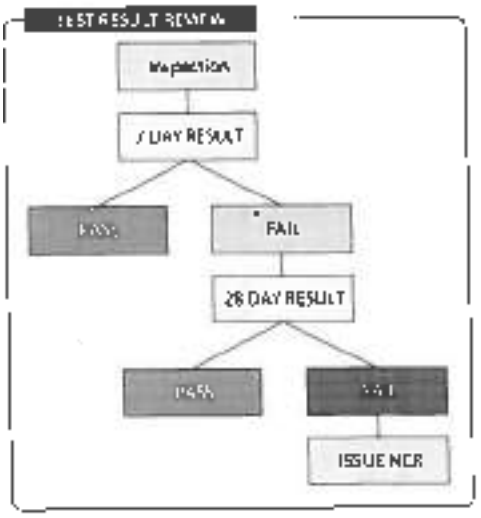
☐ The Contractor Engineer and their QA/QC team should sign the UIR Form before ER inspection. If the work is not ready, they should delay the inspection and not sign the UIR. Comments at this stage are not expected although eg: minor cleaning prior to concrete pour will be allowed

☐ The ER shall attend as indicated and check the Contractors supporting Drawings, Test results, Per-inspection signed sheets and check dimensions, alignment, workmanship, etc. If satisfied ER shall sign the UIR Code A = Approved, or shall add relevant comments and add AWC = Approved with Comments and the next stage may progress when the comments have been resolved, or shall add R = Rejected as the work is not satisfactory and must be corrected and reinspected

AWC or R will require a new UIR Form to be issued and the inspection process will re-start at a new date/time

☐ When Approved without comments, the next stage of work may progress





Inspection COMMENTS must be factual

Delayed test results may apply to every discipline at an inspection. When available, may require inspection records to be reviewed for previous work.

It is known that tests results taken during inspection will be available at some date in the future (eg 7 and 28 Days).

The purpose of the UIR is to verify the work stage is ready to progress now. If the Work is ready to progress at the Inspection, then it must be Approved and allowed to progress without comment. This is to avoid returning to old AWC records and revise to A.

Review of Test Results is just another stage of the work activity, and result reviews have their own lifecycle. The test results shall be assessed when available, and if they fail to meet the necessary compliance requirements, an NCR shall be issued to track the correction process.

CENTER LINE FOR RIGHT SIDE INNER EDGE		
Station	**Easting**	**Northing**
0+000.00	682389.157	798299.971
0+020.00	682407.858	798306.841
0+040.00	682427.637	798309.792
0+060.00	682447.434	798312.637
0+080.00	682467.231	798315.481
0+100.00	682487.027	798318.326
0+120.00	682506.824	798321.171
0+140.00	682526.621	798324.015
0+160.00	682546.417	798326.860
0+180.00	682566.214	798329.705
0+200.00	682586.011	798332.549
0+220.00	682605.807	798335.394
0+240.00	682625.604	798338.239
0+260.00	682645.401	798341.083
0+280.00	682665.197	798343.928
0+300.00	682684.994	798346.773
0+320.00	682704.791	798349.617
0+340.00	682724.587	798352.462
0+360.00	682744.384	798355.307
0+380.00	682764.181	798358.151
0+400.00	682783.651	798360.949

الهيئة العامة
للطرق و الكباري و النقل البري
(GARBLT)

MASTER SHEET FOR RD-06 (ZONE 0+000 TO 0+400)
RIGHT SIDE

FILL

STATION		0+000	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160	0+180	0+200	0+220	0+240	0+260	0+280	0+300	0+320	0+340	0+360	0+380	0+400
FERMA LEVEL		423.80	423.74	423.66	423.55	423.40	423.24	423.09	422.93	422.78	422.63	422.47	422.32	422.16	422.01	421.86	421.70	421.55	421.39	421.24	421.09	420.93
Replacement LEVEL		422.84	422.59	422.44	422.32	422.25	422.00	421.79	421.58	421.65	421.74	422.04	421.63	421.11	420.87	420.66	420.75	420.37	420.20	420.34	420.00	420.44
Difference		0.96	1.15	1.22	1.22	1.15	1.24	1.30	1.35	1.13	0.89	0.43	0.69	1.05	1.14	1.20	0.95	1.18	1.19	0.90	1.09	0.49
BASE 1		423.90	423.84	423.76	423.65	423.50	423.34	423.19	423.03	422.88	422.73	422.57	422.42	422.26	422.11	421.96	421.80	421.65	421.49	421.34	421.19	421.03
BASE 2		424.05	423.99	423.91	423.80	423.65	423.49	423.34	423.18	423.03	422.88	422.72	422.57	422.40	422.26	422.11	421.95	421.80	421.64	421.49	421.34	421.18
	0	423.799	423.739	423.583	423.545	423.396	423.242	423.088	422.934	422.78	422.626	422.472	422.318	422.164	422.01	421.856	421.702	421.548	421.394	421.24	421.086	420.932
	0.25	423.549	423.489	423.411	423.295	423.146	422.997	422.838	422.684	422.53	422.376	422.222	422.068	421.914	421.76	421.606	421.452	421.298	421.144	420.99	420.836	420.682
	0.5	423.299	423.239	423.161	423.045	422.896	422.742	422.588	422.434	422.28	422.126		421.818	421.664	421.51	421.356	421.202	421.048	420.894	420.74	420.586	
	0.75	423.049	422.989	422.911	422.795	422.646	422.492	422.338	422.184	422.03	421.876			421.414	421.26	421.106	420.952	420.798	420.644	420.49	420.336	
مستعمل	1		422.730	422.661	422.545	422.396	422.242	422.088	421.934	421.78				421.164	421.01	420.856		420.548	420.394		420.086	

الشركة الهندسية
للطرق والكباري والصرف الصحي
ب.ص : ٥٧٤ / ٦٤٨ / ٥٧٤
س.ت : ١٠٧٦٥

قطاع الشركة الهندسية للطرق والكباري والصرف الصحي

طبقة : -0.50

ST	Left								C.L	Right							
	SIDE WAKE		ROAD					SIDE WAKE		SIDE WAKE		ROAD					SIDE WAKE
	16.55	S=6%	13.3	12.0	8.0	4.0	S=1.5%	2.5		2.5	S=1.5%	4.0	8.0	12.0	13.30	S=0%	16.55
0+000	423.14	0%	423.14	423.16	423.22	423.28	1.5%	423.30	423.30	423.39	1.5%	423.28	423.22	423.18	423.14	0%	423.14
0+020	423.08	0%	423.08	423.10	423.16	423.22	1.5%	423.24	423.24	423.24	1.5%	423.22	423.18	423.10	423.08	0%	423.08
0+040	423.00	0%	423.00	423.02	423.08	423.14	1.5%	423.16	423.16	423.18	1.5%	423.14	423.08	423.02	423.00	0%	423.00
0+060	422.88	0%	422.88	422.90	422.96	423.02	1.5%	423.05	423.05	423.05	1.5%	423.02	422.98	422.90	422.88	0%	422.88
0+080	422.73	0%	422.73	422.75	422.81	422.87	1.5%	422.90	422.90	422.90	1.5%	422.87	422.81	422.75	422.73	0%	422.73
0+100	422.58	0%	422.58	422.60	422.66	422.72	1.5%	422.74	422.74	422.74	1.5%	422.72	422.66	422.60	422.58	0%	422.58
0+120	422.43	0%	422.43	422.45	422.51	422.57	1.5%	422.59	422.59	422.59	1.5%	422.57	422.51	422.45	422.43	0%	422.43
0+140	422.27	0%	422.27	422.29	422.35	422.41	1.5%	422.43	422.43	422.43	1.5%	422.41	422.35	422.29	422.27	0%	422.27
0+160	422.12	0%	422.12	422.14	422.20	422.26	1.5%	422.28	422.28	422.28	1.5%	422.26	422.20	422.14	422.12	0%	422.12
0+180	421.96	0%	421.96	421.98	422.04	422.10	1.5%	422.13	422.13	422.13	1.5%	422.10	422.04	421.98	421.96	0%	421.96
0+200	421.81	0%	421.81	421.83	421.89	421.95	1.5%	421.97	421.97	421.97	1.5%	421.95	421.89	421.83	421.81	0%	421.81
0+220	421.66	0%	421.66	421.68	421.74	421.80	1.5%	421.82	421.82	421.82	1.5%	421.80	421.74	421.68	421.66	0%	421.66
0+240	421.50	0%	421.50	421.52	421.58	421.64	1.5%	421.66	421.66	421.66	1.5%	421.64	421.58	421.52	421.50	0%	421.50
0+260	421.35	0%	421.35	421.37	421.43	421.49	1.5%	421.51	421.51	421.51	1.5%	421.49	421.43	421.37	421.35	0%	421.35
0+280	421.19	0%	421.19	421.21	421.27	421.33	1.5%	421.36	421.36	421.36	1.5%	421.33	421.27	421.21	421.19	0%	421.19
0+300	421.04	0%	421.04	421.06	421.12	421.18	1.5%	421.20	421.20	421.20	1.5%	421.18	421.12	421.06	421.04	0%	421.04
0+320	420.89	0%	420.89	420.91	420.97	421.03	1.5%	421.05	421.05	421.05	1.5%	421.03	420.97	420.91	420.89	0%	420.89
0+340	420.73	0%	420.73	420.75	420.81	420.87	1.5%	420.89	420.89	420.89	1.5%	420.87	420.81	420.75	420.73	0%	420.73
0+360	420.58	0%	420.58	420.60	420.66	420.72	1.5%	420.74	420.74	420.74	1.5%	420.72	420.66	420.60	420.58	0%	420.58
0+380	420.42	0%	420.42	420.44	420.50	420.56	1.5%	420.59	420.59	420.59	1.5%	420.58	420.50	420.44	420.42	0%	420.42
0+400	420.27	0%	420.27	420.29	420.35	[illegible]	1.5%	420.43	420.43	420.43	1.5%	420.41	420.35	420.29	420.27	0%	420.27

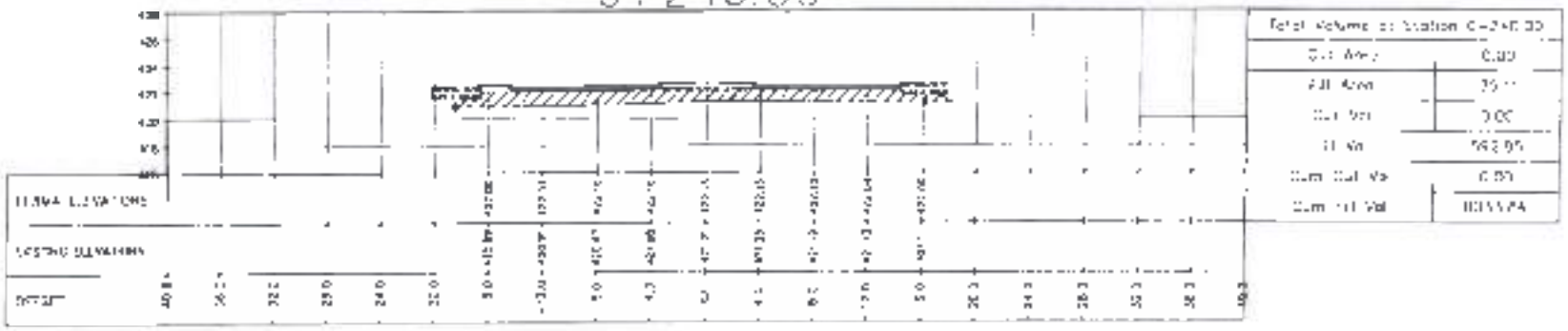
الشركة الهندسية
للطرق والكباري والصرف الصحي
ب.ض : ٥٧٢ / ٦٤٨ / ٥٧٤
ت : ١٠٧٦٥

مشروع نفق طيبة

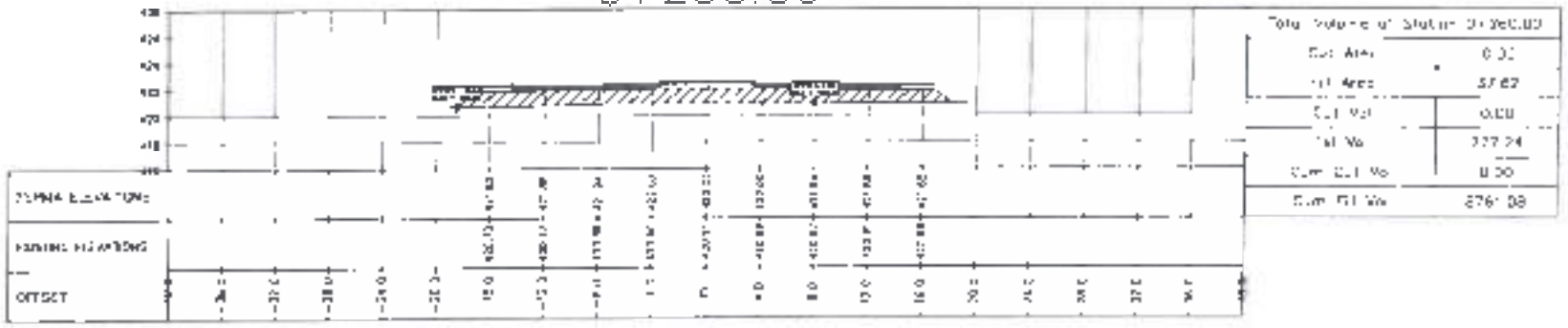
LAYERS WIDTH FROM 0+000 TO 0+400

Width Left	Layer	Width Right	Total Width
15.80	ferma	15.80	31.60
16.17	-0.25	16.17	32.34
16.55	-0.50	16.55	33.10
16.92	-0.75	16.92	33.84

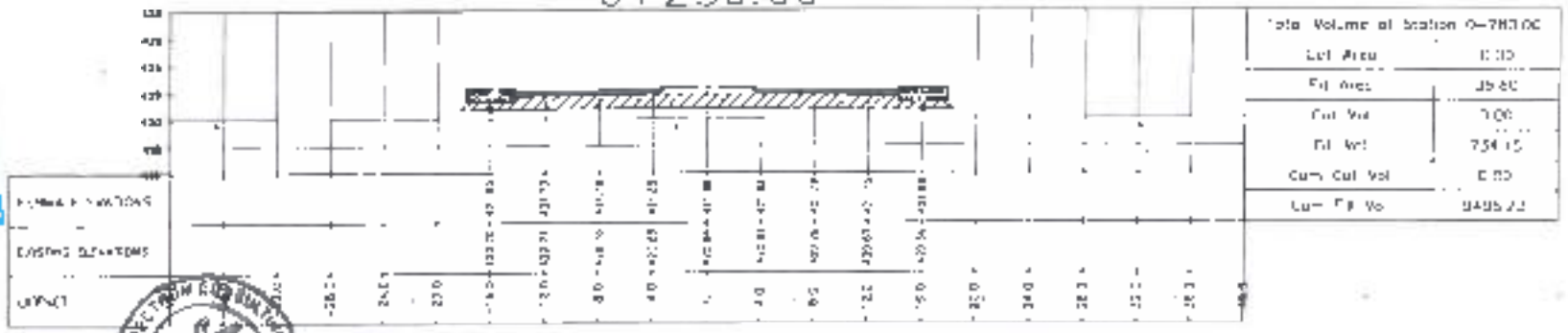
0+240.00



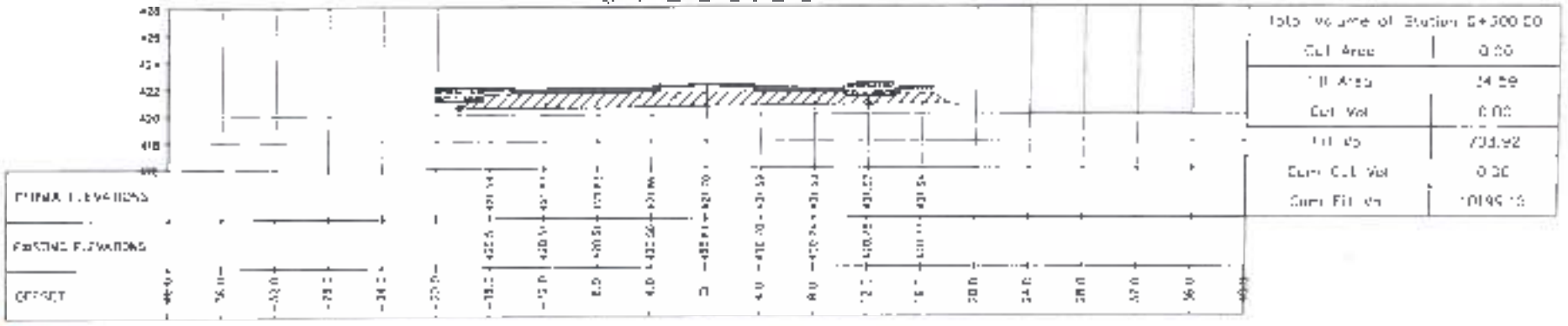
0+260.00



0+280.00

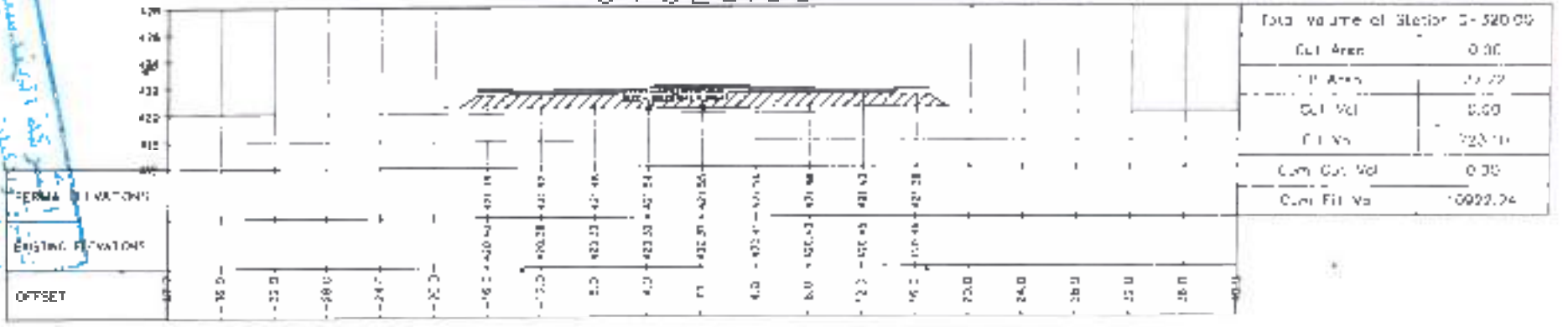


0+300.00



Total Volume at Station 0+300.00	
Cut Area	0.00
Fill Area	24.59
Cut Vol	0.00
Fill Vol	733.92
Cum Cut Vol	0.00
Cum Fill Vol	10195.16

0+320.00



Total Volume at Station 0+320.00	
Cut Area	0.00
Fill Area	20.29
Cut Vol	0.00
Fill Vol	603.16
Cum Cut Vol	0.00
Cum Fill Vol	10922.24

SPECTRUM CONSULTING

0+240.00

0-360.00

0-328.00

ARDAMAN Split

MATERIALS AND CONSTRUCTION TESTING
S.A.E
3 ABD EL-KAWY AHMED St. . MORANDEESHEN - GIZA
Tel. : 3448413 - Fax. : 3031719

Project: Electric Express Train. 15 May Sector — *File No.: 4800/S*

Client . الشركة الهندسية — *Date 24/12/2022*

Density of Soil In-Place By Sand-Cone Method (ASTM D-1556)

Date of testing	*22-12-22*
Location	*000+220 to 000+380*
Description Of Tested Material	*Stone , Gravel & Sand.*
Condition of the test	*Tested as found in the existing moisture content.*

Station	Level (m)	Bulk Density (gm/cm3)	Moisture Content (%)	Insitu Dry Density (gm/cm3)	Max Dry Density (gm/cm3)	Relative Compaction (%)
000+280	-0.50	2.115	6.4	1.988	2.040	97.5
000+360	-0.50	2.090	6.5	1.962	2.040	96.2

Notes:

1- Test location were chosen and identified by the consultant.

2-Maximum Dry Density value was provided by client.

ARDAMAN Split
Egypt Express Train
Project

Prepared by : Eng. Rody Yehia

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.AE

3 ABD EL KAWY AHMED St. , MOHANDESEEN - GIZA
Tel. : 33448413 • Fax. - 33031719

Project: Electric Express Train - 15May Sector *File No.: 4800/S*

Client: شركة الهندسية *Date: 06/12/2022*

PARTICLE SIZE ANALYSIS OF SOILS AND MATERIALS FINER THAN # 200 Sieve ASTM D - 422

Sample delivery date: 05/12/2022
Sample Identification No. : Sample No. 932
Source of sample: St Stock Pile Road 6
Level (m) : _
Classification According to AASHTO: A-1-b
Percentage of materials finer than # 200: 16.1%

Sieve No.	Opening (mm)	Percentage Passing %	
3 in.	75	100.0	
2.5 in.	63.5	100.0	
2 in.	50	100.0	
1.5 in.	38	100.0	
1 in.	25	99.7	
3/4 in.	19	97.9	
1/2 in.	12.5	94.3	
3/8 in.	9.5	90.8	
No. 4	4.75	78.8	
No. 10	2.0	65.3	
No. 40	0.425	40.7	
No. 200	0.075	16.1	

Note:-
1-The sample is provided by the consultant and under his own responsibility.

ARDAMAN Split
Egypt Express Train Project

Prepared by : Eng. Rady Yehia

Reviewed by : Eng.Osama Moftah

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E

3 ABD EL KAWY AHMED St , MOHANDESEEN - GIZA
Tel : 33448413 - Fax. : 33031719

Project: Electric Express Train - 15May Sector

File No.: 4800/S

Client: شركة الهندسية

Date: 06/12/2022

LIQUID LIMIT , PLASTIC LIMIT , AND PLASTICITY INDEX OF SOILS ACCORDING TO ASTM D4318

Sample delivery date: 05/12/2022

Sample Identification No. : Sample No. 932

Source of sample: St Stock Pile Road 6

Level (m) : –

Sample Identification No.	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)
Sample No. 932	25.1	19.2	5.9

- Notes:

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rody Yehia

ARDAMAN Split
Egypt Express Train Project

Reviewed by : Eng.Osama Moftah

ARDAMAN Split

MATERIALS AND CONSTTRUCTION TESTING
S.A.E

3 ABD EL-KAWY AHMED ST., MOHANDESEEN - GIZA
TEL.: 33448413 - FAX.: 33031719

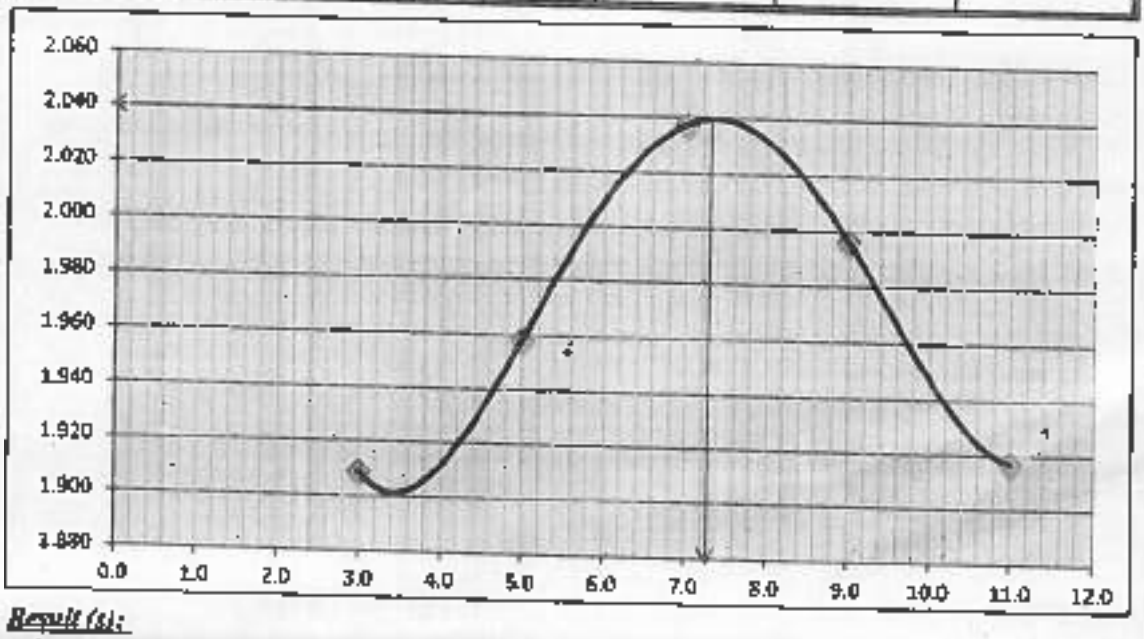
Project: Electric Express Train - 15May Sector — *File No.: 4800/S*

Client: شركة الهندسية — *Date: 06/12/2022*

MOISTURE DENSITY RELATIONSHIP OF SOIL ACCORDING TO ASTM D 1557

Sample delivery date: 05/12/2022
Sample Identification No. : Sample No. 932
Source of sample: St Stock Pile Road 6
Level (m) : –

Wet Unit Weight, gm/cm³	1.966	2.056	2.188	2.176	2.128
Water Consent, %	3.0	5.0	7.0	9.0	11.0
Dry Unit Weight, gm/cm³	1.909	1.958	2.037	1.996	1.917



Result (s):

1- *Maximum dry density* = 2.040 t/m³
2- *Optimum moisture content* = 7.30 %

Note (s):

1-The sample is provided by the consultant and under his own responsibility.

Prepared by : Eng. Rody Yehia

ARDAMAN Split
Egypt Express Train Project

Reviewed by : Eng. Osama Mostafa

ARDAMAN *Split*

MATERIALS AND CONSTTRUCTION TESTING, SAE
3 ABD EL-KAWY AHMED St., MOHANDEESEEN - GIZA (Tel. : 33448413 - Mobile : 01006830248)

Project: Electric Express Train - 15 May Sector	File No.	4800/S
	Date	06/12/2022

CHEMICAL ANALYSIS REPORT

Letter Ref. No.	ARD-CH	50	Testing Date :6/12/2022

Type *of* Tested Material	SOIL (Ref.: AASHTO T-267)
Delivery Date	05/12/2022

Sample Code No.	Source	Level	Station	Organic Matter Content, %
932	شركة الهندسية	Stockpile	Road-6	0.562

Criteria *of* Acceptance	1.0%

Note :	*The Samples were found Complying with the Project Specs.*

Prepared By: Chem/ Mina Ayman

ARDAMAN Split
Egypt Express Train
Project