



Qalat Al Jazeera Information Technology

Building Reliable Networks Across UAE&KSA in Telecom CIVIL& CABLE

Qalat Al Jazeera information technology based on (**UAE & KSA**) highlighting their expertise in CIVIL and CABLE for major infrastructure projects.



Background: A Partnership for Growth

Qalat Al Jazeera IT_UAE

A leading UAE- based provider of IT solutions and network infrastructure services, with a strong track record in project delivery and technical expertise.

Qalat Al Jazeera IT_KSA

A reputable KSA- based contracting firm with extensive experience in civil works, specializing in infrastructure projects across the Kingdom.



Expertise: Delivering Critical Infrastructure

OSP CIVIL

From site preparation to duct laying, our expertise ensures efficient and reliable infrastructure development.

Splicing/Jointing

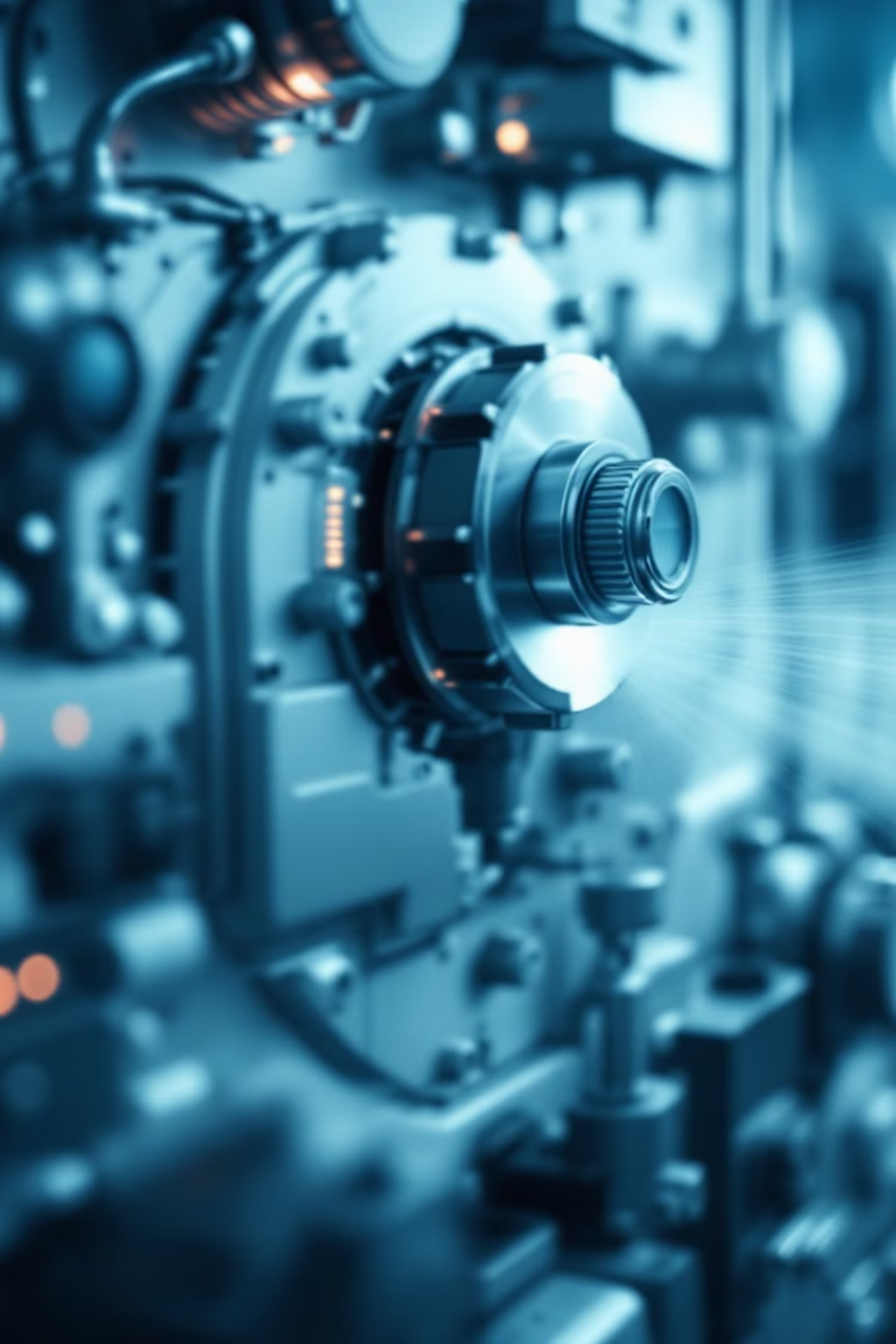
We employ advanced techniques and specialized tools to ensure seamless cable connections for optimal performance.

Cable/FTTH

Our team is skilled in installing, splicing, and testing fiber optic cables for high-speed connectivity.

Termination & Testing

Our comprehensive testing services ensure that all cables meet the highest industry standards for quality and reliability.



Specialization: Cable Laying & Blowing in Ducts



Duct Laying

Our expertise in duct laying allows us to create efficient and durable infrastructure for cable installation.



Cable Blowing

Our advanced cable blowing techniques ensure smooth and efficient installation, minimizing disruption and downtime.



High Speed

Our specialized equipment allows us to install cables at high speeds, ensuring project completion within deadlines.



Capabilities: Advanced Machinery & Expertise

Cable Blowing Machinery

We utilize state-of-the-art cable blowing equipment, ensuring optimal installation speed and efficiency.

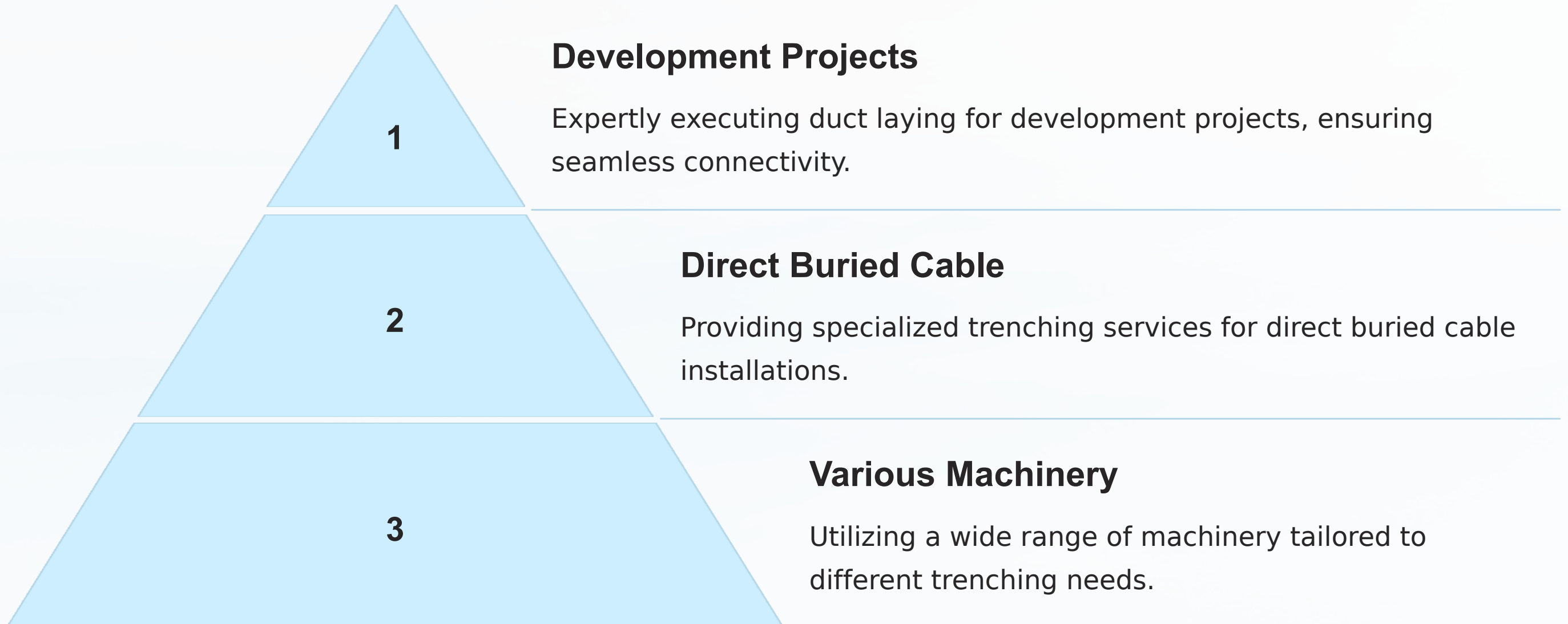
Cable Laying Manually

Our team of skilled engineers and technicians possesses extensive experience in cable blowing and related operations.

Safety First

Our commitment to safety is paramount, with strict adherence to industry best practices and safety protocols.

Civil Trenching: Building the Foundation



ZAIN BORDER PROJECT

Phase 2 for Length



1-Ongoing Project: in UAE with TAMDEED& CCS.

2-Ongoing Project in KSA with STC oryx & ZAIN Border

1

Scope

Civil works and cable activities for TAMDEED ETISALAT and CCS in **UAE..**

Civil works and cable activities for STC & ZAIN in **KSA.**

2

Location

In UAE AUH ,DXB,SHJ & KSA From Batha Oman border to Salwa, covering a significant distance for network expansion.

3

Challenges

Navigating challenging terrain and ensuring uninterrupted service during project execution.

Scope & Standards

To set the context for this profile, we define the comprehensive range of civil works undertaken, adhering strictly to established telecom industry standards and deliverables.

Scope

- Excavation & Trenching
- Conduit Laying
- Chamber Installation
- HSE Compliance

wm Standards

- STC ROW Guidelines
- Standard Depth Norms
- Spacing Regulations
- Safety Protocols

Deliverables

- Geo-tagged Photos
- QA Measurements
- Workmanship Proof
- As-built Records

Excavation: Rock Trenching



Starting with earthworks, we encounter challenging terrain requiring specialized heavy machinery. This phase establishes the critical foundation for the entire conduit network.

Activity

Rock trenching operations utilizing a heavy-duty excavator equipped with a hydraulic breaker attachment to penetrate hard surfaces.

Purpose

To establish precise trench dimensions (width and depth) strictly adhering to telecom infrastructure specifications.

Location Context

Operations currently at Al Jumum, Makkah Province, as evidenced by geo-tagging data.

Trench Progress (Rocky Terrain)

As excavation continues along the alignment, maintaining consistency and safety is paramount in these rugged conditions.

Operational Progress

The breaker unit systematically progresses the trench line, ensuring continuous workflow along the Right of Way (ROW).

Terrain Management

Navigating rocky and compact soil requires careful handling, with specific measures in place to control dust and debris.

Quality Assurance

Alignment and depth are continuously verified against the plan to prevent deviations and ensure compliant installation.



Trenching (Sandy Terrain)



Transitioning from rocky outcrops to sandy highway shoulders requires adapting our excavation methodology to maintain trench integrity near traffic.

Excavation Strategy

Utilizing wide buckets for efficient sand removal while carefully managing slope angles to prevent sidewall collapse.

Safety Controls

Edge protection barriers are strictly implemented to separate the work zone from the active highway, ensuring crew and traffic safety.

Result Profile

Achieving a clean, uniform trench floor ready for conduit placement, free of sharp debris that could damage materials.

Conduit Delivery & Handling

Proper material handling is the first step in quality control.

Material Specs

High-density corrugated telecom conduits (red color code) delivered in protected coils to prevent environmental degradation.

Mechanical Handling

Conduits are offloaded using secured straps and mechanical lifting aids, strictly avoiding dragging to prevent abrasion or ovality issues.

Night Logistics

For off-peak deliveries, site illumination is deployed to ensure safe handling and accurate inventory verification.

Inspection

Every coil is visually inspected for crush damage or manufacturing defects upon receipt before acceptance.



Conduit Placement & Spacing

Once the trench is prepped, conduits are laid in a disciplined configuration. This step is critical for ensuring future cable pulling ease and network scalability.

Parallel Alignment

Conduits are placed parallel to the trench axis, strictly minimizing horizontal bends to reduce friction during cable installation.

Bundling & Ties

Grouping ties are applied at regular intervals to maintain bundle integrity and prevent separation during backfilling.

Spacing Integrity

Consistent inter-conduit spacing is maintained to allow for proper heat dissipation and backfill compaction around each pipe.



Depth Verification (Conduits)



Verification is the bridge between installation and approval. We document depth compliance immediately after placement.

Measurement Protocol

Standard tape measurements are taken from the trench surface to the crown of the conduit bundle to confirm minimum cover.

Spec Compliance

Target depths are rigorously cross-referenced with telecom civil specifications to ensure protection from future surface works.

Digital Evidence

Each reading is captured with timestamped photography including compass bearing, creating an indisputable audit trail.

Result: Full compliance demonstrated before backfilling begins.

Warning Tape Installation

Safety layers are installed progressively. Above the conduit bundle, we place the critical warning indicator.

⚠️ Material

High-visibility orange warning tape, specifically printed with "Fiber Optic Cable" text in dual languages.

🛡️ Purpose

Acts as the primary visual alert for any future third-party excavation, preventing accidental damage to the network.

📏 Placement Protocol

Installed at a strictly mandated vertical offset (typically 20-30cm) above the conduit crown during backfilling.

✅ Continuity

Laid continuously along the entire trench length without gaps, ensuring 100% coverage of the asset below.



Chamber Installation



Transitioning from linear trenching to access infrastructure, we install durable access points for network maintenance.

Infrastructure

Installation of pre-cast concrete telecom chambers (manholes) capable of withstanding specified load ratings.

Internal Fit-out

Chambers are prepped with cable bearers, steps, and clean entry points for conduits, ensuring ease of future access.

Asset Registry

Every chamber location is geo-tagged and logged into the project asset registry for long-term network management.

Cable/Splice Management

Inside the chamber, organization is key. We ensure a neat, professional environment for cable terminations.

🔌 Splicing Works

Secure installation of fiber splice closures, positioned high on chamber walls to protect from potential standing water.

🎨 Pathway ID

Color-coded micro-ducts and sub-ducts are used for instant identification of network routes and capacity.

🧹 Housekeeping

Cable slack is neatly coiled and secured with ties; duct entries are sealed to manage water ingress.

✨ Traceability

Clear labeling ensures any technician can trace a cable from closure to duct without confusion.



QA Evidence: Geo-Tagged Depth



Verifiable data is the backbone of our QA process.

Precise Location

Every measurement photo includes embedded GPS coordinates, altitude, and bearing.

Verified Depth

Tape readings clearly show depth ranges meeting project specs (e.g., >60cm).

Audit Ready

These records form a permanent part of the handover documentation.

HSE Compliance & Team



Full PPE

Every crew member is equipped with high-visibility vests, safety helmets, and safety boots, enforcing a zero-compromise policy.

Site Control

Active work zones are clearly demarcated with barriers and signage to manage pedestrian and vehicular traffic safely.

Crew Discipline

Our experienced team conducts daily toolbox talks to align on safety risks and operational goals before starting work.

Backfilling & Reinstatement



With the infrastructure installed and verified, we proceed to restore the corridor to its original condition.

Select Backfill

The initial backfill layer uses screened sand or select fill to cushion the conduits and prevent point-loading damage.

Layered Compaction

Fill is placed in controlled lifts (layers), with each lift mechanically compacted to prevent future ground settlement.

Site Restoration

The final surface is reinstated to match the surrounding terrain, leaving a clean and safe environment.

Completed Conduit Run

The final result is a robust, clean, and perfectly aligned duct network ready for fiber blowing.

Continuous Alignment

The completed run demonstrates consistent spacing and alignment, critical for long-distance cable propagation.

Visual Verification

A final visual check confirms the trench floor is clean and the slope is correct before the tape and backfill are applied.

Ready for Handoff

This section is now physically complete and ready for the next phase of closure and final QA documentation.



Summary & Next Steps

Achievements

- Excavation completed in rock & sand
- Conduit installation per spec
- HSE compliance verified
- QA documentation captured

Forward Path

1. Compilation of As-Built drawings
2. Final site reinstatement inspection
3. Coordination for network commissioning

CONTACT FOR FOLLOW-UP:



Etisalat Civil & Manhole Finishing

Short Page — Etisalat Civil & Manhole Finishing
for Development Project (2025)

Author: AnyGen | Date: 2025-12-21

1. Executive Summary

The scope of this project encompasses the complete lifecycle of Etisalat civil works, including corridor preparation, trenching operations (width **400–600 mm**), duct laying, warning tape installation, and final reinstatement. A critical focus is placed on manhole finishing, specifically benching, frame seating, and cable management. To ensure structural integrity, a mandatory **7-day curing period** is required for all concrete elements. Excavation and finishing works must strictly adhere to a depth tolerance of **±25 mm**, with a minimum cover of **600 mm** maintained from the surface to the top of the uppermost duct.



Trench alignment and depth control along highway corridor

Completed duct run with warning tape placement

2. Manhole Finishing Standards

Standard chambers are constructed with a typical clear opening of **600 × 600 mm**. Finishing specifications require concrete benching to be sloped at **1:6** towards the channel to prevent water stagnation. The mortar bedding under the frame must have a uniform thickness of approximately **20 mm**. Where internal steps are required, they must be spaced at approximately