

# Vehicle and Pedestrian Safety

## Quarry Safety Campaign 2021 H.S.A I.C.F pre-campaign briefing for Managers/Supervisors

*Presented By Greg Murphy Inspector H.S.A.*

***Over 10% of work related vehicles death involve reversing vehicles.***

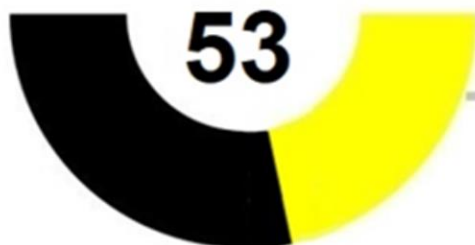
# Work Related Vehicle Fatalities



2020

\* Provisional figures

Total Reported Fatalities



30  
involved a  
vehicle  
(57%)

## Sectors

|   |                                     |
|---|-------------------------------------|
| 12  Agriculture                           | 3  Manufacturing                    |
| 7  Construction                           | 1  Waste collection (non-hazardous) |
| 2  Maintenance & Repair of Motor Vehicles | 1  Sports and Recreation            |
| 2  Transport and Storage                  | 2  Wholesale and Retail             |

## Vehicle Types Involved

|   |   |   |   |   |   |   |       |
|---|---|---|---|---|---|---|-------|
|   |   |   |   |   |   |   | Other |
| 8 | 3 | 1 | 2 | 1 | 2 | 5 | 8     |

|                          |                           |
|--------------------------|---------------------------|
| 27  Male                 | 3  Female                 |
| 22  Workers              | 8  Non - Workers          |
| 22 Killed in a workplace | 8 Killed in a public area |

→ 6 Child victim

# Vehicle Risks

***Big Vehicles and Pedestrian are not a good mix !!!***



# Vehicle Risks

## The most common types of Work Related Vehicle incidents are:

- People being hit by moving vehicles
- People falling from vehicles
- People injured by objects falling from vehicles
- People injured by vehicles overturning
- People being injured during vehicle maintenance

## Most fatal Work Related Vehicle incidents occur during the following activities:

- Reversing Slow speed maneuvers
- Maintenance and repair
- Loading and unloading
- Coupling and uncoupling
- Deliveries and collections



# Risk Assessment

## It's not a one size fits all !

- It might be location specific within the work site
- It might be task specific.
- It might be vehicle specific.

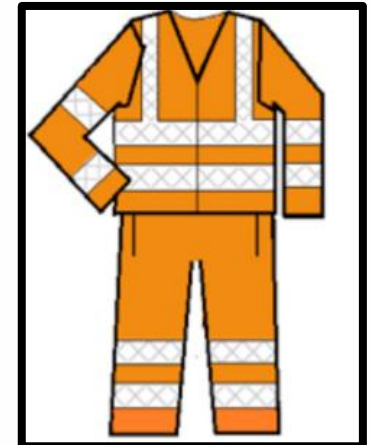
***The control measures will need to be specific to each situation, area and task.***

# High Visibility Clothing

Be Safe. Be Smart. **Be Seen.**

**Make Sure Drivers Can see you**

**Standard I.S. E.N. 20417 3 Classes**



**Is adequate high visibility clothing provided and maintained/replaced**

# Quarry Entrance and Office/Reception



- Start to guide vehicles from here.
- Is there adequate Signage at Quarry entrance (Warning Vehicle Movements/Speed Limits/Parking Areas/Customers & visitors to report to reception or Office or Weighbridge
- Is there Parking for staff in an area away from operations
- Is there a Parking area for Customers/Visitors



# SMALL Loads/Visitors

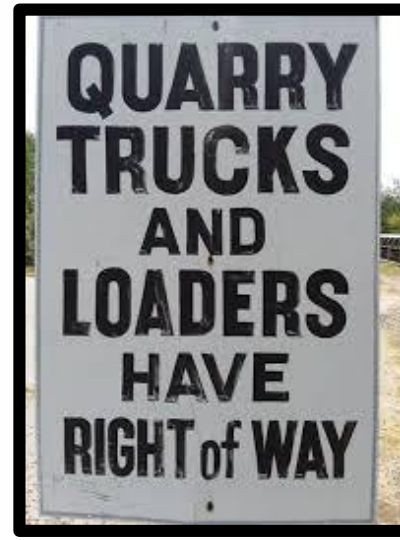


- Are Procedures in place for small load customers (Trailers etc.)
- Are Rules Prepared for Customers/Visitors (written hand out?)
- Is there a Pedestrian route that is identified from parking areas

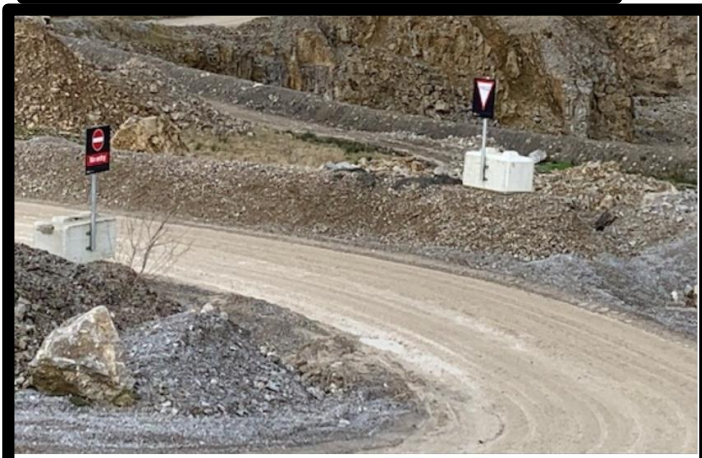


# TRAFFIC ROUTES

- Is there a Traffic Management Plan (Starts With Risk assessment)
- Are traffic routes identified and sign-posted
- Are speed limits shown (realistic !)
- How are you monitoring speed limits ?
- Are rights of way signposted



# TRAFFIC ROUTES (One way systems)



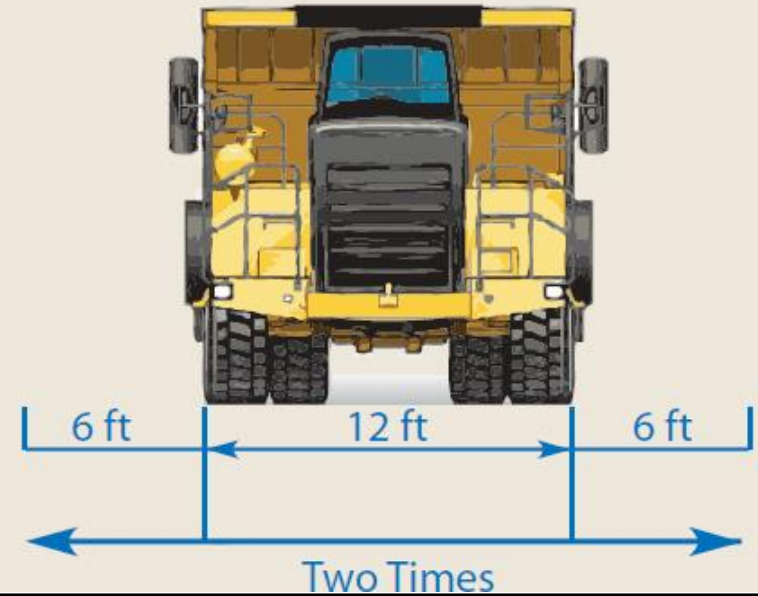
- Are one-way systems in use
- Is reversing minimised
- Are actions taken to protect pedestrians

# Haul Roads

Are haul roads adequate in relation to:

- Width
- Passing places
- Gradients
- Turns
- Edge protection
- Road Surface

Figure 6: Recommended haul road width (single vehicle).

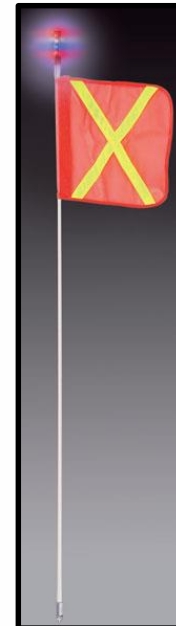


26%

# Mobile Plant and Haul Roads - Unsafe Procedures and Systems

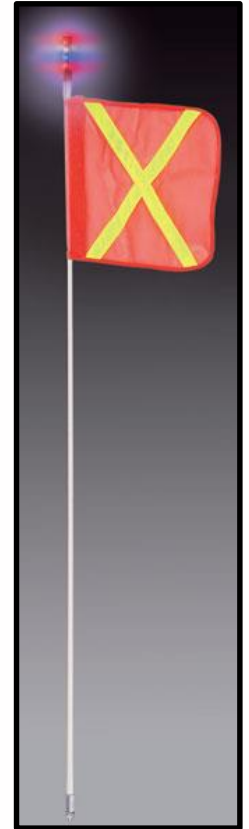


# Light and Service Vehicles in the Quarry



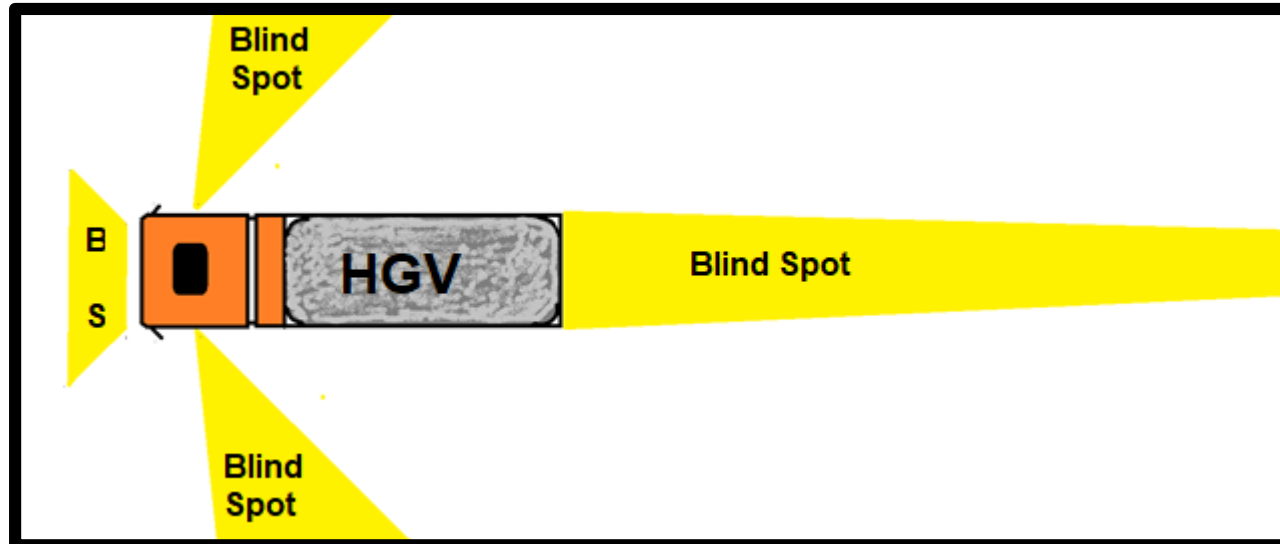
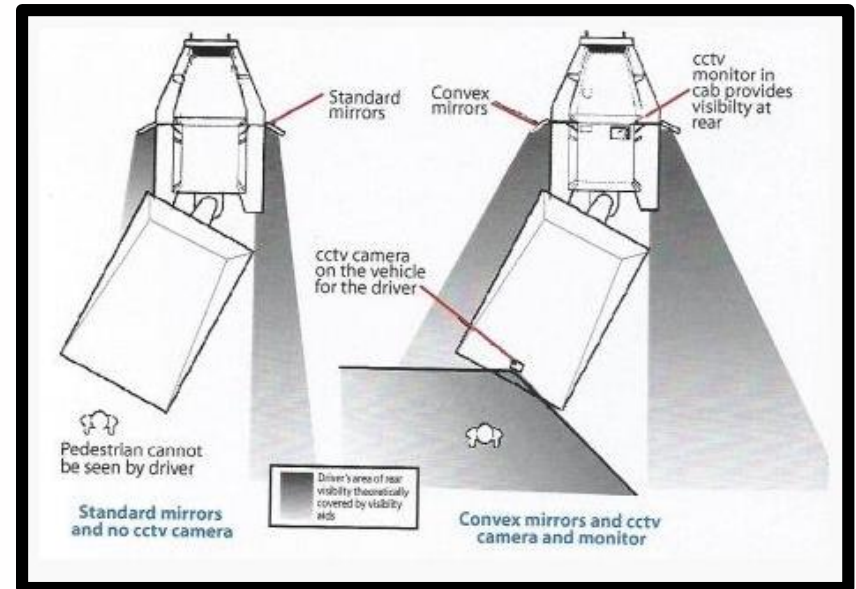
- Are light vehicles restricted in the quarry (Who/When/Where) **(Safe area to park !!!!!)**
- Do Light vehicles have flashing light/hazard lights on/lights on
- Are Procedures in place for Light Vehicle drivers to follow (Rights of way/ Traffic Routes/
- Service vehicle include Tractor and Bowser/Fuel Bowser/ Contractors vehicles/ Road Sweeper/

# Vehicle Reversing and Visibility Aids and Access



- Do vehicles have adequate Reversing and visibility aids
- Is access to and from vehicles adequate

# Blind Spots



# Vehicle FOPS/ROPS/Seat Belts/Fall Protection



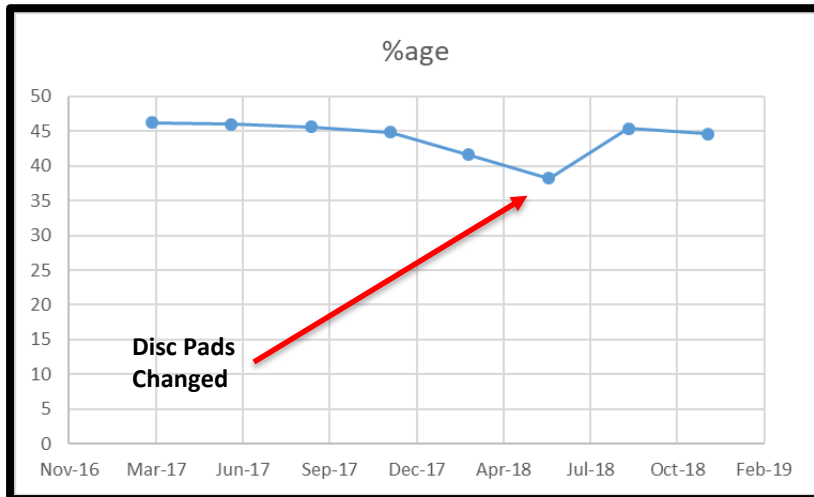
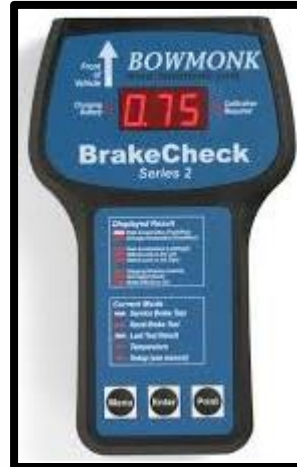
Do vehicles have adequate FOPS / ROPs /  
Windscreen Protection / Fall protection



# Parking Vehicles



# Break Testing



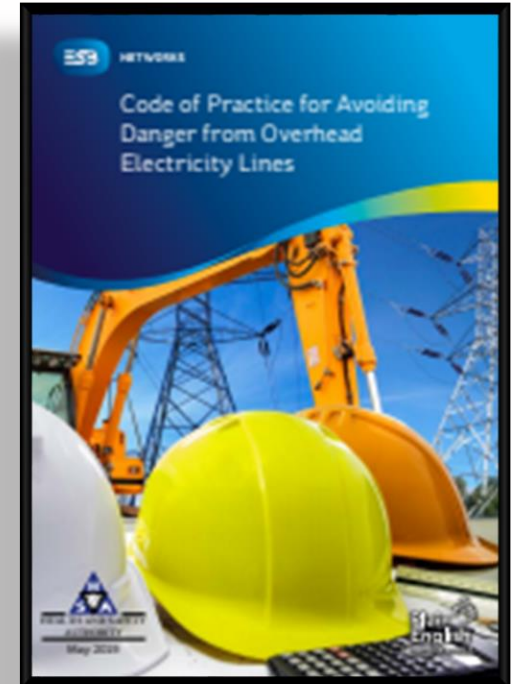
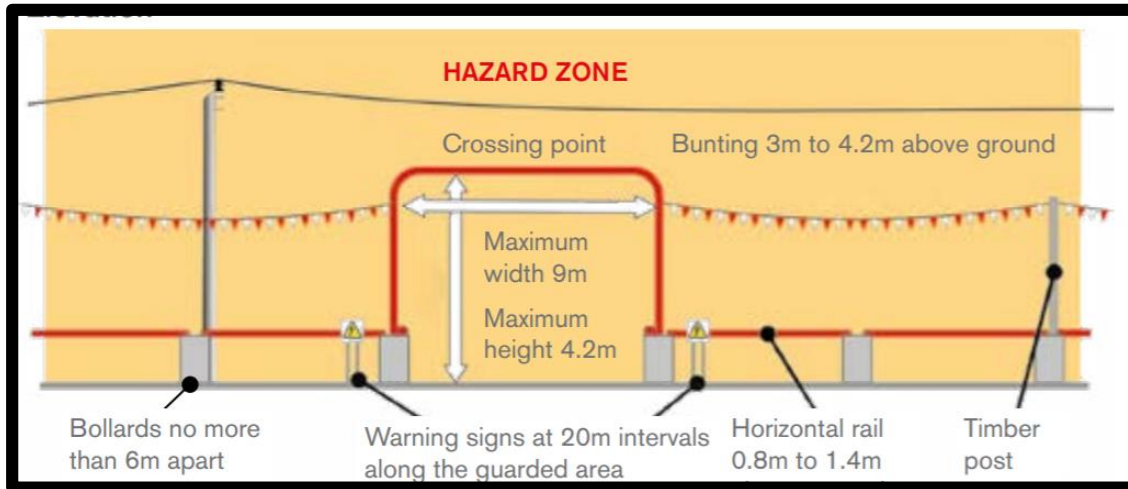
Is Brake testing carried out on Loading Shovels and Dumper Trucks  
Are Brake Testing Results Satisfactory

# Maintenance and Tyres



Are Tyres in good condition  
Can tyre inflation be carried out safely  
Do vehicles with tipping bodies have appropriate devices and procedures to prevent accidental collapse from the raised position during maintenance

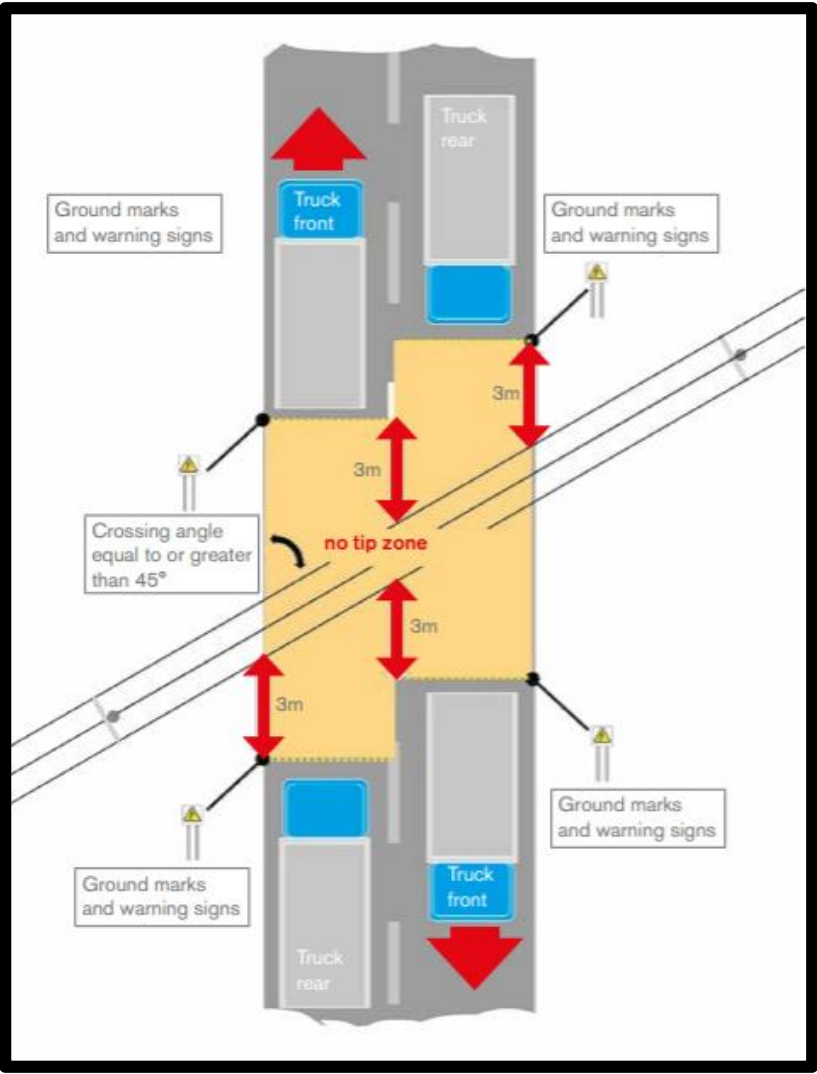
# Overhead Power Lines



- Precautions are required if it is possible for a vehicle to reach the danger zone around the cables. Consult ESB C.O.P. 2019.
- Assessment of the risk must take account of the possibility of tipper trucks travelling when tipped.
- If work needs to be carried out below power lines and it is possible that cranes, excavators or other vehicles, could reach into the danger zone, the lines should normally be isolated and earthed before work begins.

[https://www.hsa.ie/eng/publications\\_and\\_forms/publications/codes\\_of\\_practice/avoiding\\_danger\\_from\\_overhead\\_electricity\\_lines.pdf](https://www.hsa.ie/eng/publications_and_forms/publications/codes_of_practice/avoiding_danger_from_overhead_electricity_lines.pdf)

# ARE YOU SURE IT'S SAFE?



# Training

Drivers must have appropriate training for the vehicle they are operating.

# Watch Out - Traffic About!



## Pedestrian Safety Tips

### Always:

- Remember that you may not be visible to drivers.
- Stick to designated walkways & crossing points.
- Remember that different vehicles have different stopping distances. Respect them.
- Wear High Visibility clothing when working with or near moving vehicles.



### Don't:

- Enter "No Pedestrians" or "Vehicle Only" areas.
- Walk beside a moving vehicle.
- Approach a moving vehicle. Wait until the driver acknowledges your presence.
- Walk behind a reversing vehicle. Remember vehicles can have blind spots.

For more  
information of  
Workplace  
Vehicle Safety

[https://www.hsa.ie/eng/Topics/Work\\_Related\\_Vehicle\\_Safety/](https://www.hsa.ie/eng/Topics/Work_Related_Vehicle_Safety/)

# Summary

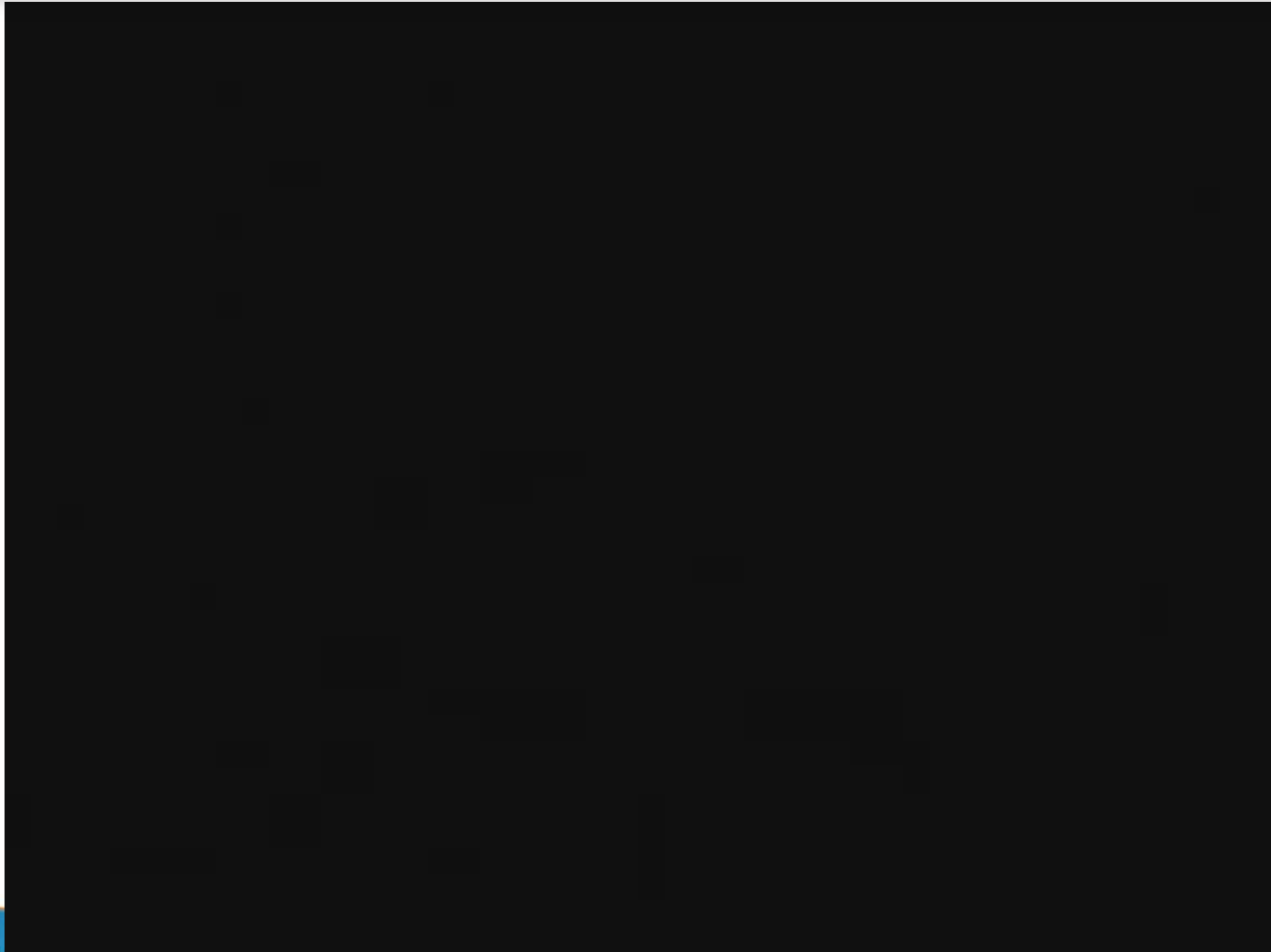
- Pedestrian and vehicle don't mix.
- Signs to direct and inform.
- High vis clothing for pedestrians and drivers, flashing beacons, warning alarms and visual aids for vehicles .
- Drivers to carry out daily checks, record defects and report them to management.
- Avoid reversing where possible.
- Properly constructed roads, avoid steep inclines and sharp bends.
- Ensure vehicle are properly maintained.
- Drivers have appropriate training.
- Dedicated parking for quarry vehicles, customers and employees
- Traffic management plan based on risk assessment



# Haul Roads



# Mobile Plant



# Mobile Plant

**Thank For Your Attention**