

Analyzer International Inc.

Infrastructure Solutions

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**SAFETY
PLAN
&
PROTOCOL**

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This copy resides on
<http://www.goanalyzer.com/safety/analyzersafetyplan.pdf>

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1.0 – Analyzer Safety Policy

- 1.1 - Analyzer's safety plan and policy incorporates primarily the Cal-OSHA Safety Manual (Attachment A, residing on <http://www.goanalyzer.com/safety/attachmentA.pdf>), and Caltrans Code of Safe Practices (Attachment B, , residing on <http://www.goanalyzer.com/safety/attachmentB.pdf>).
- 1.2 - It is the employee's responsibilities to comply fully with the Cal-OSHA's regulations, Caltrans Code of Safe Practices, and the Clients' safety requirements and procedures.
- 1.3 - All field personnel are required to read Analyzer's safety manual and sign off in the form in attachment C, residing on <http://www.goanalyzer.com/safety/attachmentC.pdf> .
- 1.4 - Serious safety violations are a cause for termination, particularly when other agencies are involved.
- 1.5 - All safety gear and equipment are fully reimbursable by Analyzer.

2.0 – Safety Attitudes

- 2.1 – Always remind ourselves “ONE FALSE STEP WILL CAUSE A THOUSAND REGRETS”
- 2.2 – Plan your work ahead; read and research your plans and specifications ahead of time and know what to inspect, and minimize your risk exposure in the unsafe environment.
- 2.3 – Be aware of your unsafe environment and do not be too absorbed in your work as to be oblivious to your surroundings. Things happen fast and furious in the field and an unsafe situation can develop any time. Be alert.

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- 2.4 – Make sure contractors follow approved work plans, shop drawings, falsework plans, and excavation and shoring plans because unapproved plans might present dangers to people working nearby.
 - 2.5 – Always do a hazard analysis when working in a changed environment. When you analyze hazard, pay attention to potential dangers like protruding rebars, unsafe ladder, toxic fumes, frequent machinery or truck traffic, buried gas line in excavation or cranes working around high tension power lines.
 - 2.6 – “Zero-tolerance” for Safety
 - 2.7 - Do not be complacent. Complacency courts tragedy.
 - 2.8 - Do not rush in your work. Do not run. Pick your step and pick your course. Walk and position yourself in safe pockets away from possible dangers.
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- 3.0 Some Safety Highlights – By no means complete
 - 3.1 – Always wear required and approved protective – hard hat, work boot, and approved vest.
 - 3.2 - Always wear goggles when handling concrete or other eye dangers are present.
 - 3.3 – Always wear eye plugs when inspecting pile driving or working around noisy equipment
 - 3.4 - Wear respirator as required or deemed necessary for dust or exposure to toxic or harmful fumes.
 - 3.5 – Wear appropriate reflective night vest or gown as required for night work. Always use flash light for night work.

Analyzer International Inc.

Infrastructure Solutions

- 3.6 – Wear gloves when handling concrete or in situation where hand protection is required.
- 3.7 - Always drive defensively. Allow enough room for vehicle in front.
- 3.8 - Check your truck occasionally for tire wear and tear, tire pressure, turning and brake lights, brakes and windshield wipers.
- 3.9 - Always park your truck in the lane closure using the contractors' vehicles as shelter and protection from oncoming traffic or errant vehicles.
- 3.10 – Be aware opening and closing of lane closures, and stay out of open lanes.
- 3.11 - Wear body harness as required. Contact Eng Yeong to get fitted with the harness if work requires it.
- 3.12 – Always park your vehicle in a safe pocket away from moving equipment and truck traffic.
- 3.13 - Make sure to attend the biweekly safety meeting for Caltrans or other projects, and read the material and sign off if you cannot make it and record it in Attachment D, residing on <http://www.goanalyzer.com/safety/attachmentD.pdf>. Also, if you do not have the opportunity to attend a biweekly safety meeting, please pick a topic from the Attachment A and Attachment B and read it, and record it in attachment D. Biweekly safety training and documentation is a Cal OSHA requirement. For audit purposes, you may be asked to email the record to Analyzer Safety Officer.

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4.0 - Safety Protocol

4.1 - For life threatening emergency, call 911.

4.2 – Go to any hospital or clinic for work related emergency treatment. It is covered under Analyzer Workers Comp policy under : State Compensation Insurance Fund – Policy Number 1904979-12.

4.3 - For work related non-emergency treatment, go to Kaiser or any nearest clinic and say it's work related.

4.4 – For emergency , after calling 911, call Eng Yeong at 925-325-1838; then call your field supervisor or senior to inform him of the situation. Follow Caltrans protocol and procedures in reporting and documenting the accidents.

4.5 – For vehicle related incident, also call Analyzer Insurance Broker Shawn at 714-603-2974.

4.6 - For field personnel, please find out location of and shortest route to the closest clinic or hospital for emergency care.

5.0 - **Unsafe Scenarios to Avoid**-By no means a complete list – USE YOUR COMMON SENSE

5.1 - Drive slowly or avoid driving in HEAVY RAIN with your truck because of uncontrolled skidding due to HYDROPLANING and loss of control due to fishtailing as a result of lesser weight on rear tires. Use sandbags to increase weight at the back.

5.2 – Beware of blinding sunlight when driving. Take your time to look before making turns, especially making left turn at intersection looking to dark areas underneath a bridge. Your eyes may take a while to adjust when changing vision from bright area to dark area.

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- 5.3 – When working in lane closures, be alert to errant vehicles from drivers under the influence of drugs and alcohol driving into the lane closures. Always be prepared, know the escape route and face traffic when working. Always make sure your vehicles are sheltered in lane closures.
- 5.4 – Make sure contractor does not work within 6 ft of open lanes, and the lane closures are placed per plans with adequate taper lengths and proper signage.
- 5.5 - Make sure the ladders are properly secured before using them.
- 5.6 - Do not stand close of working cranes, danger of getting hit by rotating crane counterweight base.
- 5.7 – Do not stand underneath the crane boom, danger of collapsing boom.
- 5.8 – Beware of working near highly stacked materials, danger of being injured by falling loads.
- 5.9 - After a rain, beware of weakened foundation soil for cranes, equipment or falsework close to slopes.
- 5.10 – Do not stand behind the jack during prestressing, danger of getting hit if the prestressing strands break.
- 5.11 – Do not stand close or look into the grout hole during grouting operations. The grout might shoot out and injure your eyes. Always wear goggles to protect.
- 5.12 – Be careful when working around moving equipment, cranes, excavators and trucks, and move away from them to avoid being hit accidentally. Always have EYE CONTACT with the operator when moving around the equipment.

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Infrastructure Solutions

- 5.13 – Heat stroke can KILL. In extreme heat, have more frequent rests under shades or in air-conditioned environment, and drink more water. Avoid caffeine and alcohol.
- 5.14 – Avoid backing up when driving, especially up or down a slope, next to a drop or trench and other hazards. Better take a longer route and drive forward if possible.
- 5.15 – For polyester concrete and methacrylate works, make sure excessive sand is swept off, and oily surface removed before opening lane closures. Check for tracking of oil on road surface for methacrylate by driving on it.
- 5.16 – Avoid lifting heavy objects which could hurt your back.
- 5.17 – Make sure protruding rebars are protected to avoid impalement.
- 5.18 – Avoid the falsework deck during falsework jacking operation due to jack rotation from unlevel surface and instability of prestressed strands for transverse bracings.
- 5.19 – The safest area on falsework deck is that close to bents and columns because the falsework bents on either side of columns are usually hugged to the column by means of strut-and-tie mechanism.
- 5.20 – Beware of tripping or falling or twisting your ankles when working on rebar mats or uneven ground or slope.
- 5.21 – Always check utility plans for buried utilities before start of excavation operation.
- 5.22 – Always use amber flashing beacon when entering and existing barricaded work area into and from live lanes.