

# Size Does Not Matter!

Virtually any size panel can be provided by Coast to Coast Signal Engineering and we provide all necessary Microstation or other artwork files required for panel production. CTC can provide panels ranging in size from the 12"X17" standard for mounting on custom local control boxes to much larger panels requiring a Hoffman Box type enclosure. Panels sized for mounting in a standard 19" rack are available, as well as larger panels such as those used for drawbridge controls, manned or unmanned interlocking controls and a host of other applications. In most cases panels can be provided complete within 30 days from receipt of your purchase order.

**Coast to Coast Signal Engineering's Custom Local Control Panels are guaranteed to be the highest quality custom local control panels in the industry!**



COAST TO COAST SIGNAL ENGINEERING IS A FULL SERVICE RAILROAD SIGNAL ENGINEERING FIRM. OTHER SERVICES PROVIDED ARE:

- Wayside & crossing design, engineering & software.
- Railroad yard design.
- "As-in-service" or "As Constructed" field & office copies.
- Vital & Non-vital programming & simulation.
- Full service wiring shop.
- Field surveys.
- Construction management.
- Wayside & crossing installation & maintenance.
- PTC Test Unit/Signal Lamp Simulator.
- Test Lab Simulator.
- Signalman training.
- Signal cutover support.
- Material procurement and delivery.
- Software testing racks.
- Complete test lab facilities for testing all hardware & software applications.
- Hot Box Detector design, engineering & support.



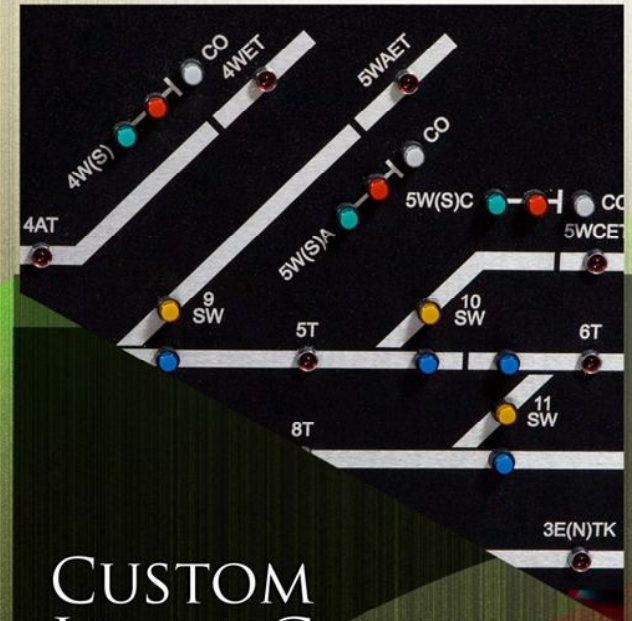
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## CUSTOM LOCAL CONTROL PANELS

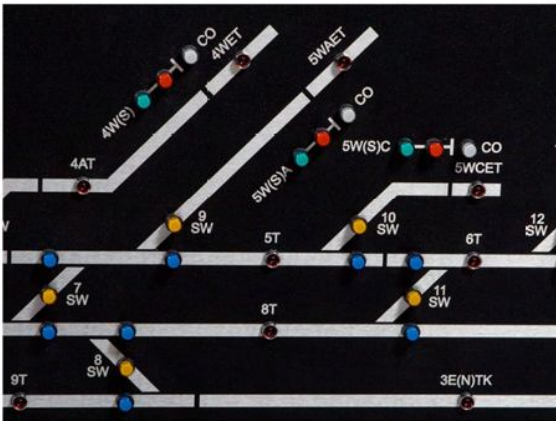


"WHERE QUALITY IS A STANDARD"

## HIGHEST QUALITY COMPONENTS

Coast to Coast Signal Engineering's Custom Local Control Panels start with high quality 1/8" aluminum stock and can be given a black powder coat finish with laser engraving for a white on black appearance (pictured). The powder coated panel offers a non-reflective surface and texture that has proven to be extremely durable and very suitable for LCP applications.

Alternately, our panels can be made utilizing the latest state of the art photographic process creating a "black on silver" look. The photo processed panel is abrasion, solvent, chemical, and heat resistant with no loss of legibility up to 750 degrees Fahrenheit!



BLACK POWDER COATED PANEL

Both of these processes leave a very clear and precise image that is easily read and tough enough to withstand even the most severe environmental conditions for many years.

## OTHER COMPONENTS

All components that go into Coast to Coast Signal Engineering's Custom Local Control Panels are individually selected to be the highest quality available for the specific application. Many varieties of LED's are available for use as either outputs or indications and are custom tailored to meet or exceed our customer's individual specifications.



Combination control and indication switches can also be used with, colored caps that are available in any color required. Keyed switches can also be provided for added safety and to prevent unauthorized use of the panel. Coast to Coast Signal Engineering's Custom Local Control Panels are built to meet each customer's specifications.



Each panel manufactured by Coast to Coast Signal Engineering is custom assembled and wired

## MANUFACTURING AND QUALITY PROCESS

individually according to plans. Once all components are mounted in the panel, wiring begins. Coast to Coast Signal Engineering uses different colored wire to help identify the circuits and to aid in any future modifications or troubleshooting that may become necessary.



A minimum of two spare wires are provided in each plug, doubled back and tied off in the wire harness. These spares can be used in the event that changes are made requiring additional components after the panel has been made. This provides the benefit of preventing the railroad from acquiring the expensive tools required to attach wires to the 60 pin plug. Once wiring is completed, each circuit is individually checked and tested to ensure it is wired properly and according to plan. All switches and LED's are tested to ensure they operate as intended. An ample supply of spare parts and special tools needed for LED replacement is provided with each panel shipped. The panel is then mounted on the CLCP box (if required) and packaged securely for safe shipment to our customers.