

Petroleum Refining and Product Distribution

Matrix Technologies, Inc. has extensive experience in petroleum refining and downstream product distribution applications. Our experience has been developed over thirty years serving an array of refining and product terminal customers. Matrix Technologies Inc. designs new and retrofit installations to help our customers adapt to changing market conditions, industry standards, and government regulations. Our petroleum refining and product distribution experience includes:

Process/Mechanical:

- Process Flow Diagram Development
- P&ID Development
- Utility Optimization Studies
- Relief Valve Specifications
- Piping Design
- Piping Stress Analysis
- Process Optimization Studies
- Equipment/Tank/Vessel Design Specifications
- Pump Design Specifications
- Equipment Layouts
- Valve Specifications
- Piping Specialty Equipment Specifications
- Vessel Internal Specifications

Civil/Structural:

- Equipment foundations
- NESHAP sewers
- EPA Permit-To-Install
- Pipe supports/pipe racks
- Access platforms/structures
- Analysis of existing structures
- New Building design
- Oil water separator specification
- Containment dike verification and rework
- Jack and bore (directional drilling) for underground crossings
- Emission seals for sewer systems
- Firewater system upgrades/repairs

Electrical & Instrumentation:

- One Line Diagrams
- Three Line Diagrams
- Substation Design
- Switchgear/ MCC Layout and Specification
- Power Load/Flow Analysis
- Hardwired schematic wiring diagrams
- DCS and PLC Systems
- Loop Drawings
- FieldBus Design (incl. loading calculations)
- FieldBus Segment Drawings
- Network Design and Architecture
- Communication systems
- Safety Instrumented Systems
- Instrument Location Plans
- Instrumentation specifications and data sheets
- Control Panel Design
- Short Circuit Analysis
- Protective Device Coordination
- Arc Flash Analysis

**Let Matrix Technologies provide a money saving
solution for you!**

