PART 1 - GENERAL

1.01 WORK INCLUDED

1. Hinged Cover Enclosures
2. Cabinets
3. Terminal Blocks and Accessories

1.02 REFERENCES

1. NEMA 250—Enclosures for Electrical Equipment (1000 Volts Maximum)
2. ANSI/NEMA ICS 1—Industrial Control and Systems
3. ANSI/NEMA ICS 4—Terminal Blocks for Industrial Control Equipment and
4. Systems
5. ANSI/NEMA ICS 6—Enclosures for Industrial Control Equipment and Systems

1.03 SUBMITTALS

A. Submit product data under provisions of Division 01.

B. Shop Drawings for Equipment Panels: Include wiring schematic diagram, wiring diagram, outline drawing and construction diagram as described in ANSI/NEMA ICS 1.

PART 2 - PRODUCTS

2.01 HINGED COVER ENCLOSURES

A. Construction: NEMA 250; Type 1 steel.

B. Finish: Manufacturer's standard enamel finish.

C. Covers: Continuous hinge, held closed by flush latch operable by key.

D. Panel for Mounting Terminal Blocks or Electrical Components: 14 gauge steel, white enamel finish.

2.02 CABINETS

A. Cabinet Boxes: Galvanized steel, 24 inches wide, 24 inches high, 6 inches deep minimum. Provide ¾" thick, AC-grade, plywood backboard, painted on all six sides with two coats of flame retardant paint, as manufactured by Pathway & Spaces, Inc. If voltage exceeds 50 volts to ground, backboard shall be metal. Backboard shall standoff cabinet back wall a minimum of ½ inch. Minimum thickness of backboard shall be 16 gauge.

B. Cabinet Fronts: Steel, surface type with screw cover front, concealed hinge; finish in gray baked enamel.

2.03 ENCLOSURES AND CABINETS FOR LIFT STATIONS AND BALL FIELDS

1. Construction: NEMA 250; Type 4X Stainless Steel
2. Finish: Smooth brushed stainless steel
3. Covers: Continuous hinged, held closed by flush latch operable by key

2.04 TERMINAL BLOCKS AND ACCESSORIES

A. Terminal Blocks: ANSI/NEMA ICS 4; UL listed.

B. Power Terminals: Unit construction type, closed-back type, with tubular pressure screw connectors, rated 600 volts.

C. Signal and Control Terminals: Modular construction type, channel mounted; tubular pressure screw connectors, rated 300 volts.

D. Copper Ground Bar Strip with #6 Copper Grounding: Bonding conductor to building main grounding buss.

2.05 MANUFACTURERS

1. Burndy #RK Series
2. Buss
3. Belden

2.06 FABRICATION

A. Shop assemble enclosures and cabinets housing terminal blocks or electrical components in accordance with ANSI/NEMA ICS 6.

B. Provide conduit hubs on enclosures.

C. Provide protective pocket inside front cover with schematic diagram, connection diagram, and layout drawing of control wiring and components within enclosure.

PART 3 - EXECUTION

3.01 INSTALLATION

A. All cabinets shall have hinge type doors.

B. Cabinets shall have built in locks and keys provided unless installed in mechanical, electrical, or communication rooms.

C. Install cabinets and enclosures plumb; anchor securely to wall and structural supports at each corner, minimum.

D. Provide accessory feet for free-standing equipment enclosures.

E. Install trim plumb.

F. All exterior mounted enclosures shall be either NEMA 4X.

G. Any conduit penetrations made on the top or sides of exterior mounted enclosures shall be made using a manufactured hub or hub assembly.

H. No penetrations shall be made in an exterior mounted enclosure on the sides of enclosure higher than the bottom third of the enclosure.

**END OF SECTION**