



- NOTES:**
1. ALL STRUCTURAL STEEL TO BE ASTM - A36 CARBON STEEL WITH 1 (ONE) COAT OF CORTEL (317 RED O.D.R.) FINISH.
  2. REFERENCE DRAWINGS: COCHRANE ENVIRONMENTAL SYSTEMS DRAWING No. D-201826 (DEAERATOR), KSB DRAWING No. 383/102870 (DOLER FEED PUMP), I.P.E. DRAWING No. 47982-100 (P & ID) AND No. 47982-500 (ALARM PANEL).

**WATER PUMP INFORMATION:**  
 3-PHASE INDUCTION MOTOR  
 TYPE: BDK FTE 00-250/150  
 250 HP - CONTINUOUS RATING  
 3285 RPM 480 V 270 Amp  
 60 Hz 185 F 1.2 AMB: 104°F  
 CODE: C  
 STD NEMA MG1 WT: 1700 lbs  
 DRAWING No. 511212/CS - BOTH ENDS  
 SERIAL No. 771142291 YR. 1978  
 YASKAWA ELECTRIC MFG. CO., LTD.

**PUMP REFERENCE INFORMATION:**  
 KSB ACTINGSGESellschaft  
 TYPE: HSC 21/70 YR. 1990  
 FLOW = 60.3 GPM/HR (325 USGPM)  
 TYPICAL = 147C (257.67)  
 T.D.H. = 550.5m (1806 ft.)  
 RPM 3500 RPM  
 IDENTIFICATION No. 00333170 243823-020  
 PUMP No. 3-200-034312/1  
 E-No. 42180107100080010513

**STARTER PANEL, BOX REFERENCE INFORMATION:**  
 SIEMENS CAT. No. 30111120  
 CONTACTOR CAT. No. 3TE55  
 400 VAC, 3 PHASE, 3 WIRE, 60 Hz, STARTER  
 POWER SUPPLY (DISCONNECT PROVIDED BY CUSTOMER)  
 120 VAC, 1 PHASE, 60 Hz, CONTROL POWER  
 MAX AMPERAGE (BOOTH): 400 Amps @ 480 VOLTS  
 OPERATING TEMP. RANGE: (-13 TO +131°F)  
 MAX HORSEPOWER RATING  
 @ 3 PHASE 480 VOLTS: 300 HP

3. I.P.E. ITEM No. 20-17100, JOB No. 47982.
4. STRUCTURE DESIGNED PER 110 MPH WIND LOADING (ASCE 7-93) BASED ON DESIGN SHOWN. DESIGN UPLIFT FORCE IS 12.7 KIPS PER COLUMN.
5. FIELD CONNECT (L.F.P., RECIRCULATION PUMPS, VALVES AND ORANGE MIRROR BETWEEN PUMP AND DEAERATOR STORAGE SECTION) WILL BE ALL PUMP LOADS TO PUMP AND DEAERATOR.
6. ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. VERIFY WITH PHYSICAL EQUIPMENT PRIOR TO INSTALLATION.

**INDEXED DRG. NO. DA-17100-3**  
 THIS DESIGN DRAWING IS THE PROPERTY OF INDECK POWER EQUIPMENT COMPANY. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFIC TO WHICH IT WAS ISSUED. ANY REUSE OR MODIFICATION OF THIS DRAWING WITHOUT THE WRITTEN PERMISSION OF INDECK POWER EQUIPMENT COMPANY IS STRICTLY PROHIBITED. ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. VERIFY WITH PHYSICAL EQUIPMENT PRIOR TO INSTALLATION.

REV	DATE	DESCRIPTION	DESIGN BY	APPROVED BY
A	11/11/97	AS SHOP FABRICATED (WITH FIELD REQUIRED MODIFICATIONS)	DEJ	JJJ
B	03/16/98	AS SHOP MODIFIED	DKJ	JJJ
C	02/20/04	AS SHOP MODIFIED (ADDED PUMP AND MOTOR INFORMATION, MODIFY TEXT)	DKJ	JJJ

**INDECK**  
 INDECK POWER EQUIPMENT COMPANY • 1111 WELLS AVENUE • WHEELING, ILLINOIS 60090  
 ITEM# 17100  
 165,000 PPH HENT/L DEAERATOR  
 DEAERATOR GENERAL ARRANGEMENT AND STAND DETAILS  
 DESIGNED BY DEJ  
 CHECKED BY JJJ  
 DATE 11/06/97  
 DRAWING NO. C 17100-3