

1 PUMP CONTROL PANEL SCHEMATIC

NOT TO SCALE

ELECTRICAL SYMBOLS & ABBREVIATIONS

SYMBOLS	DESCRIPTION
⊠	POLE MOUNTED LUMINAIRE
⊠	PANEL OR SWITCHBOARD - 250V. OR BELOW
⊠	PANEL OR SWITCHBOARD - 480V. OR 600V.
⊠	SPECIAL PANEL AS INDICATED
⊠	DRY TYPE TRANSFORMER
—	CONDUIT HOMERUN TO PANEL INDICATED
—	MULTI-WIRE CIRCUIT
—	ELECTRICAL CONNECTION TO EQUIPMENT INDICATED
⊙	JUNCTION BOX
⊕	DUPLEX RECEPTACLE
⊕	QUADPLEX RECEPTACLE
⊕	SPECIAL PURPOSE OUTLET
S	SINGLE POLE SWITCH
S _K	KEY OPERATED SWITCH
S ₃	THREE-WAY SWITCH
S ₄	FOUR-WAY SWITCH
S _P	SINGLE POLE SWITCH & PILOT
S _M	SINGLE THROW THERMAL SWITCH
□	DISCONNECT SWITCH
⊕	COMBINATION MOTOR STARTER & DISCONNECT SWITCH
⊕	MAGNETIC MOTOR STARTER
⊙	MOTOR

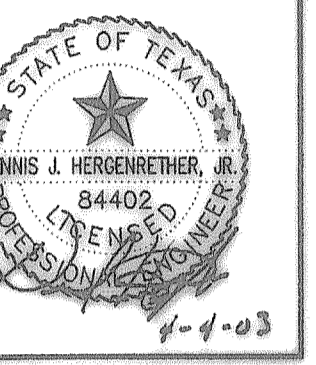
SYMBOLS	DESCRIPTION
⊠	BELL
⊠	HORN
⊠	PUSHBUTTON
⊠	CIRCUIT BREAKER-AMPERE RATING & # POLES SHOWN
⊠	FUSED SWITCH - AMPERE RATING & POLES SHOWN
⊠	FUSE - AMPERE RATING SHOWN
⊠	POWER TRANSFORMER-RATING INDICATED
—	CONNECTION
—	SURGE SUPPRESSOR
⊕	MOTOR
⊕	WATT HOUR METER
⊠	POTENTIAL TRANSFORMER
⊠	CURRENT TRANSFORMER
⊕	GROUND FAULT RELAY
⊕	GROUNDING WYE WINDING CONNECTION
⊕	DELTA WINDING CONNECTION
⊠	SEPARABLE CONNECTOR
⊠	NORMALLY OPEN CONTACT
⊠	NORMALLY CLOSED CONTACT
⊠	RESISTIVE LOAD
⊕	RELAY
A	AMPERE
A.I.	ANALOG IN
BHD	BARE HARD DRAWN

SYMBOLS	DESCRIPTION
C.	CONDUIT
C/B	CIRCUIT BREAKER
CKT	CIRCUIT
C.O.	CONDUIT ONLY
CPT	CONTROL POWER TRANSFORMER
C.R.	COIL RELAY
DPDT	DOUBLE POLE, DOUBLE THROW
D.I.	DIGITAL IN
D.O.	DIGITAL OUT
EP	EXPLOSION PROOF
ETM	ELAPSED TIME METER
FACP	FIRE ALARM CONTROL PANEL
GFI	GROUND FAULT INTERRUPTER
GFP	GROUND FAULT PROTECTION
GR	GENERATOR RECEPTACLE
HOA	HAND-OFF-AUTO
KVA	KILOVOLT-AMPERES
KVAR	KILOVOLT-AMPERES REACTIVE
KW	KILOWATT
KWH	KILOWATT-HOURS
LIG	LONG, INSTANTANEOUS AND GROUND FAULT ADJUSTABLE TRIP SETTINGS
LSIG	LONG, SHORT, INSTANTANEOUS AND GROUND FAULT ADJUSTABLE TRIP SETTINGS
MCB	MAIN CIRCUIT BREAKER

SYMBOLS	DESCRIPTION
MLO	MAIN LUGS ONLY
MS	MOTOR STARTER
NF	NON-FUSED
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
O.H.	OVERHEAD
O.H.E.	OVERHEAD ELECTRICAL
P.C.	PHOTOCELL
P.M.	PHASE MONITOR
RGS	RIGID GALVANIZED STEEL
SPD	SURGE PROTECTION DEVICE
SPST	SINGLE POLE, SINGLE THROW
U.G.	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
V	VOLT
VFD	VARIABLE FREQUENCY DRIVE
WP	WEATHERPROOF
XFMR	TRANSFORMER
XFR	TRANSFER
Z	IMPEDANCE
REF: 2/E4	REFER TO DETAIL 2 ON SHEET E4
⊠	SEE NOTE #3
AFF	ABOVE FINISHED FLOOR

RECORD DRAWINGS January 27, 2004
 NOTE: THE INTENT OF THE OWNER AND ENGINEER WAS TO CONSTRUCT THE IMPROVEMENTS ACCORDING TO THESE PLANS AS APPROVED BY THE CITY OF ROCKWALL. THE LINES AND GRADES WERE SET ON THE GROUND FOR CONSTRUCTION ACCORDING TO SAID PLANS. WE ARE NOT AWARE OF ANY CHANGES OR REVISION TO THESE PLANS DURING CONSTRUCTION EXCEPT AS NOTED ON THE PLANS.

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 ROCKWALL, TEXAS

REVISIONS	ISSUE DATE
	3-11-03

SHEET NO.

E4

OF 4

PLATE NO. 85