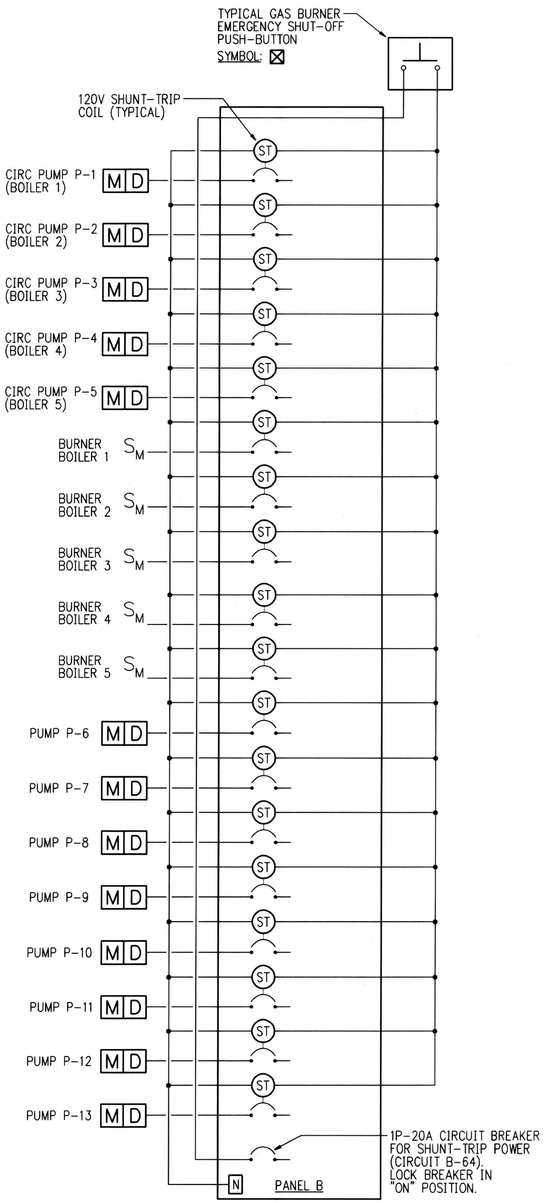
DETAIL NOTE: 1/2" DIAMETER GALVANIZED STEEL ALL-THREAD ADHESIVE ANCHOR WITH GALVANIZED STEEL FLAT WASHER, LOCK WASHER AND HEXAGON NUT; EMBEDMENT TO BE 4" MINIMUM (TYPICAL OF 4 PER BASE). CHANNEL, POST BASES, AND HARDWARE SHALL BE CORROSION-RESISTANT.

DETAIL (2/E0.1)
FREESTANDING SUPPORTS
NOT TO SCALE



SEQUENCE OF OPERATION:

UPON EMERGENCY CONDITION, CLOSING OF TOGGLE (GAS BURNER EMERGENCY SHUT-OFF) SWITCH SHALL ACTIVATE SHUNT TRIP COIL IN PANELBOARD AND OPEN CIRCUIT BREAKER. TO RESET, MANUALLY TURN CIRCUIT BREAKER TO THE "ON" POSITION.

DETAIL (1/E0.1)
GAS BURNER EMERGENCY SHUT-OFF DIAGRAM
NOT TO SCALE

ELECTRICAL SYMBOLS AND ABBREVIATIONS

GENERAL

- (1) DENOTES REFERENCE TO SPECIFIC NOTE ON DRAWING.
- (1/E0.1) DETAIL OR PLAN NUMBER; DRAWING NUMBER WHERE DETAIL OR PLAN IS LOCATED.
- #/E## DETAIL REFERENCE: DETAIL NUMBER/DRAWING NUMBER

DEMOLITION

- REMOVE CONDUIT AND WIRING BACK TO PANELBOARD.
- DISCONNECT EXISTING EQUIPMENT CONNECTION.
- DISCONNECT EXISTING ELECTRIC MOTOR.
- DM REMOVE COMBINATION MOTOR STARTER/DISCONNECT.
- D REMOVE SAFETY DISCONNECTING SWITCH.

WIRING

- HOMERUN TO PANELBOARD. NUMBER OF ARROW HEADS INDICATES NUMBER OF CIRCUITS. NUMBER OF HASH MARKS INDICATES NUMBER OF CONDUCTORS. WHERE NO HASH MARKS APPEAR, PROVIDE TWO (2) CONDUCTORS PLUS GROUND. REFER TO PANEL SCHEDULES FOR CONDUCTOR SIZES. PROVIDE GROUND WIRES IN CONDUITS.
- CONDUIT AND WIRING RUN EXPOSED IN OPEN CEILINGS, UON. PROVIDE GROUND WIRES IN CONDUITS.

POWER

- ELECTRIC PANELBOARD (120/208V), SURFACE MOUNTED.
- PLYWOOD MOUNTING BOARD, 4' W x 8' H x 3/4" THICK, UON.
- DM COMBINATION TYPE MOTOR STARTER, WITH STARTER AND NON-FUSED SAFETY DISCONNECTING SWITCH, HOA SWITCH, "PUSH-TO-TEST" RED "STOPPED" AND GREEN "RUNNING" INDICATING PILOT LIGHTS, AND TWO SETS OF N.O. AND N.C. AUXILIARY CONTACTS IN NEMA TYPE 1 ENCLOSURE, UON. MOUNT 5'-6" AFF TO TOP OF ENCLOSURE, UON. STARTER AND SWITCH SIZE AS NOTED ON PLANS.
- D SAFETY DISCONNECTING SWITCH IN NEMA TYPE 12 ENCLOSURE, UON. MOUNT ADJACENT TO BOILER BURNER, UON. PROVIDE 2P-30A NFSS, CAPABLE OF BEING LOCKED IN THE OPEN POSITION, UON.
- S_M MANUAL MOTOR STARTER/THERMAL OVERLOAD SWITCH, WITH OVERLOAD PROTECTION, IN NEMA TYPE 1 ENCLOSURE, UON. MOUNT ADJACENT TO EQUIPMENT BEING SERVED, UON.
- 2S MANUAL MOTOR STARTER/THERMAL OVERLOAD SWITCH WITH HOA SWITCH, CONTROL RELAY, "PUSH-TO-TEST" RED "STOPPED" AND GREEN "RUNNING" INDICATING PILOT LIGHTS AND NEMA TYPE 1 CABINET ENCLOSURE. REFER TO DIAGRAM 2/E6.1 FOR CONNECTIONS AND ADDITIONAL INFORMATION.
- ELECTRIC MOTOR CONNECTION.
- HARD WIRED ELECTRICAL CONNECTION. CONNECT TO EQUIPMENT AS NOTED.
- HEAVY DUTY OIL TIGHT EMERGENCY PUSH BUTTON STATION WITH FULL GUARD, MOUNTED 48" AFF, FOR SHUT-DOWN OF BOILERS AND ASSOCIATED EQUIPMENT. CONNECT TO SHUNT-TRIP CIRCUIT BREAKERS IN PANEL B. PROVIDE RED SWITCH COVER AND IDENTIFY AS "BOILER EMERGENCY SHUT-DOWN". COORDINATE EXACT LOCATION WITH STATE BOILER INSPECTOR. REFER TO DETAIL 1/E0.1 FOR CONNECTIONS.
- DUPLEX GROUNDING-TYPE, GROUND FAULT CIRCUIT INTERRUPTER (GFCI) TYPE RECEPTACLE (NEMA 5-20R), SURFACE WALL MOUNTED 18" AFF, UON.

LIGHTING

- RR CAFEFULLY REMOVE EXISTING LIGHTING FIXTURE TO BE RELOCATED. EXISTING LIGHTING CIRCUIT SHALL REMAIN. REMOVE WIRE AND CONDUIT BACK TO POINT WHERE EXISTING LIGHTING CIRCUIT CAN BE INTERCEPTED FOR RECONNECTION.
- RL RELOCATED LIGHTING FIXTURE. PROVIDE 2 #12 + #12 GROUND IN 3/4" CONDUIT AND CONNECT RELOCATED LIGHTING FIXTURE TO EXISTING LIGHTING CIRCUIT IN MECHANICAL ROOM.

ABBREVIATIONS

A, AMP	AMPERE
AIC	AMPERES INTERRUPTING CAPACITY
ATC	AUTOMATIC TEMPERATURE CONTROL
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BMS	BUILDING MANAGEMENT SYSTEM
C	CONDUIT
CB	CIRCUIT BREAKER
CIRC	CIRCULATION
CKT	CIRCUIT
DISC	DISCONNECT
DWG	DRAWING
DX	DISCONNECT EXISTING
EC	EMPTY CONDUIT WITH PULL STRING
ECB	ENCLOSED CIRCUIT BREAKER
EF	EXHAUST FAN
EQUIP	EQUIPMENT
ETR	EXISTING TO REMAIN
EX	EXISTING
EXIST	EXISTING
FLA	FULL LOAD AMPERES
FSS	FUSED SAFETY SWITCH
G, GND	GROUND
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERES
KW	KILOWATT
LRA	LOCKED ROTOR AMPERES
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MFS	MAXIMUM FUSE SIZE
MH	MOUNTING HEIGHT
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT CURRENT PROTECTION
N	NEUTRAL CONDUCTOR
N.C.	NORMALLY CLOSED
NDP	NOTRE DAME PREP
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFSS	NON-FUSED SAFETY SWITCH
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN OR NUMBER
NTS	NOT TO SCALE
P	POLE, POLES OR PUMP
PNL	PANEL
PUH	PROPELLER UNIT HEATER
RL	RELOCATED
RR	REMOVE AND RELOCATE
RX	REMOVE EXISTING
SF	SUPPLY FAN
SWBD	SWITCHBOARD
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLT, VOLTS
W	WATTS/WIRE, WIRES
ø	PHASE
&	AND
{	BRACKET

BOILER REPLACEMENT FOR
NOTRE DAME PREPARATORY SCHOOL
815 HAMPTON LANE
TOWSON, BALTIMORE COUNTY, MARYLAND 21286

James Posey Associates
Engineering Your Vision
Mechanical & Electrical Consulting Engineers
3112 Lord Baltimore Drive
Baltimore, MD 21244
tel 410-265-6100
fax 410-298-9820
jamesposey.com

STATE OF MARYLAND · RICHARD E. LEE · No. 12393 · PROFESSIONAL ENGINEER

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the state of Maryland, License No. 12393, Expiration date: 04-02-2011.

Comm. No. 5806-09

Sym.	REVISIONS	Date

Drawn	WCS
Designed	WCS
Checked	PJM
Approved	REL
Scale	NONE
Comm No	5806-09
Date	4/7/2010

Drawing Title
SYMBOLS, ABBREVIATIONS, AND DETAILS

Sheet No:
E0.1

April 06, 2010 6:01 p.m.
Drawing: I:\5806-09\D-DRAWINGS\5806E01.DWG TSCHERRER