

M1.1 LEGEND, DRAWING LIST, SCHEDULES & BOILER ROOM DEMOLITION M2.1 BOILER ROOM PLANS, SCHEMATICS & DETAILS

ST. URSULA CATHOLIC SCHOOL BOILER REPLACEMENT

CHATHAM

ONTARIO

C&B PROJECT NO. 6817

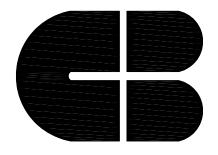
APRIL 2011

ISSUED FOR TENDER



ST. CLAIR CATHOLIC DISTRICT SCHOOL BOARD

Lighting the Way ~ Rejoicing in Our Journey



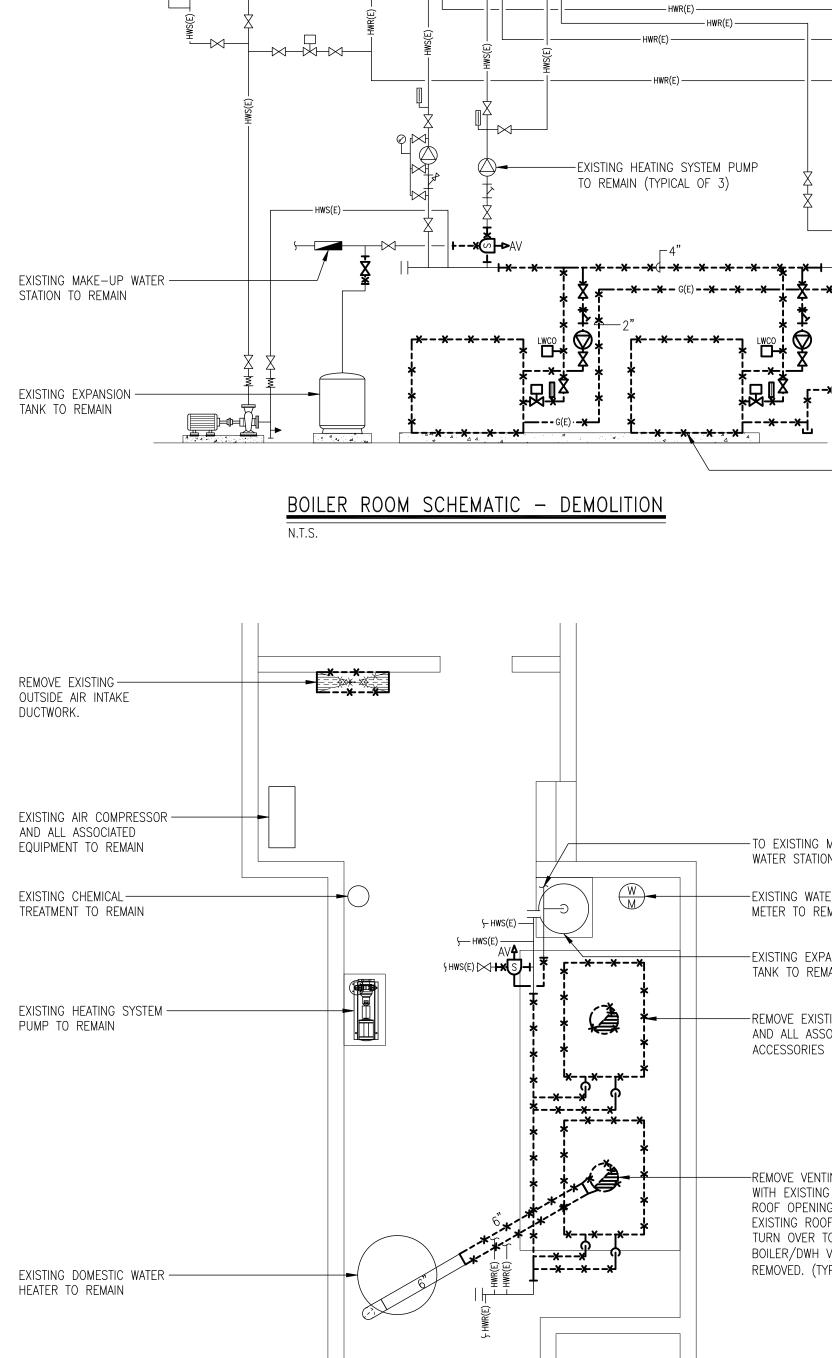
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MECHANICAL

ELECTRICAL

E1.1 ELECTRICAL



BOILER ROOM PLAN - DEMOLITION

SCALE: 1/4"=1'-0"

<u>NOTES</u>:

- 1. REMOVE ALL REDUNDANT EQUIPMENT ASSOCIATED WITH EXISTING BOILER.
- 2. RESTORE ALL SURFACES WHERE SERVICES ARE REMOVED. REPAIR ALL WALL AND ROOF OPENINGS TO MATCH EXISTING.
- 3. CUT BACK AND CAP ALL REDUNDANT PIPING IN BOILER ROOM.
- 4. REMOVE REDUNDANT HOUSEKEEPING PADS.
- 5. SEE BOILER ROOM SCHEMATIC DEMOLITION FOR PIPE SIZES.
- 6. REINSTALL ALL CONTROL SENSORS IN EXISTING PIPING BEING REMOVED. RECONNECT ALL WIRING TO EXISTING CONTROL PANEL.
- 7. REMOVE EXISTING OUTDOOR TEMPERATURE SENSOR AND ALL ASSOCIATED WIRING.

	MECHANICAL L	EGEND	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
SYMBOL	DESCRIPTION DOMESTIC COLD WATER HOT WATER HEATING SUPPLY HOT WATER HEATING RETURN NATURAL GAS CONDENSATE DRAIN CONNECT TO EXISTING EXISTING PIPING TO REMAIN EXISTING PIPING TO BE REMOVED SHUT OFF VALVE		DESCRIPTION FLEXIBLE CONNECTOR TWO-WAY CONTROL VALVE AIR SEPARATOR LOW WATER CUT-OFF STRAINER WITH 3/4" BALL VALVE, HOSE CONNECTION AND BRASS CAP AND CHAIN CAP AUTOMATIC AIR VENT
	CHECK VALVE CONCENTRIC REDUCER PRESSURE RELIEF VALVE COMBINATION SHUT-OFF & BALANCING VALVE PRESSURE GAUGE COCK DRAIN WITH HOSE CONNECTION UNION	Image: Second	FLOOR DRAIN COLD WATER MAKE-UP STATION PUMP THERMOMETER PRESSURE GAUGE EXISTING DUCTWORK TO BE REMOVED NEW DUCTWORK

		DR
M1.1	LEGEND, DRAWING LIST,	SC
M2.1	BOILER ROOM PLANS, S	СНЕ

					BOILER	SCHEDULE					
DRAWING	SERVICE	MANUFACTURER	MODEL	INPUT	OUTPUT	100	NNECTIONS		VOLTAGE	REMARKS	
REFERENCE	JEINIGE	MANULACTONEN	MODEL	[MBH]	[MBH]	WATER	GAS	VENT	VOLTAGE	ILLIVIANT(S	
	HEATING SYSTEM	LOCHINVAR	KBN701	700	660	2"	1"	6"	120/1/60	LOW NOX BURNER – MODULATING	

				PUMP S	SCHEDULE				
DRAWING	SERVICE	MANUFACTURER	MODEL	FLOW	HEAD	RPM	MOTOR	ELECT	FRICAL
REFERENCE	SERVICE	MANUFACIURER	MODEL	[GPM]	[FT]	K P M	[HP]	VOLTAGE	PHASE
CP-301A/B/C	BOILER	ITT	60 - 2x6-1/4	65	30	1750	1.5	230	1

			UNIT HE	ATER SCHEI	DULE			
DRAWING	MANUFACTURER	MODEL	CAPACITY	WATER FLOW	AIR FLOW	MOTOR	ELE	ECTRICAL
REFERENCE	MANOFACIORER	MODEL	[MBH]	[GPM]	[CFM]	[HP]	VOLTAGE	PHASE
UH-401	SIGMA	030H	22.4	2.3	420	1/20	120	1

G(E) REMOVE GAS PIPING BACK TO EXISTING GAS METER (APPROX. 50 FEET) -2 1/2" 3/4" ► PT STO DWH/RTU -2 1/2"

> -REMOVE EXISTING BOILER AND ALL ASSOCIATED ACCESSORIES (TYPICAL OF 2)

-TO EXISTING MAKE-UP WATER STATION

-EXISTING WATER METER TO REMAIN

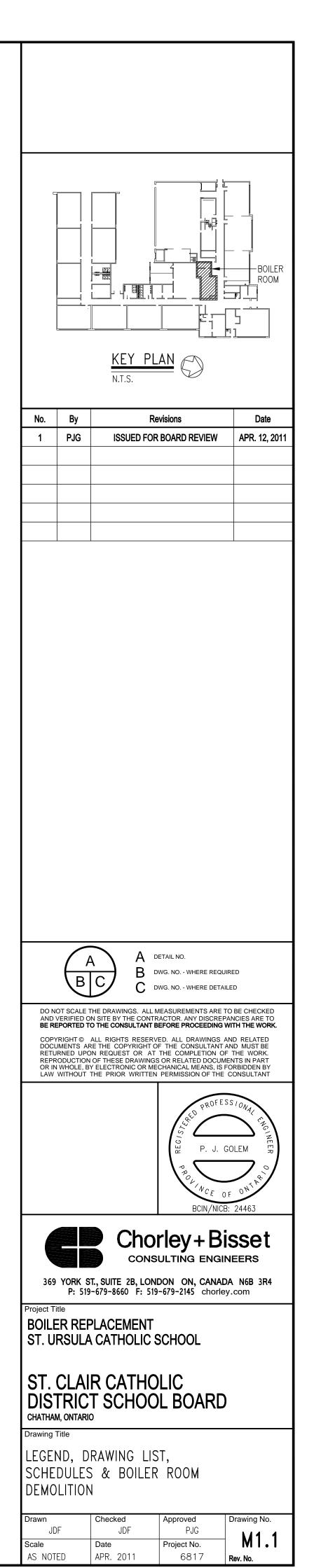
-EXISTING EXPANSION TANK TO REMAIN

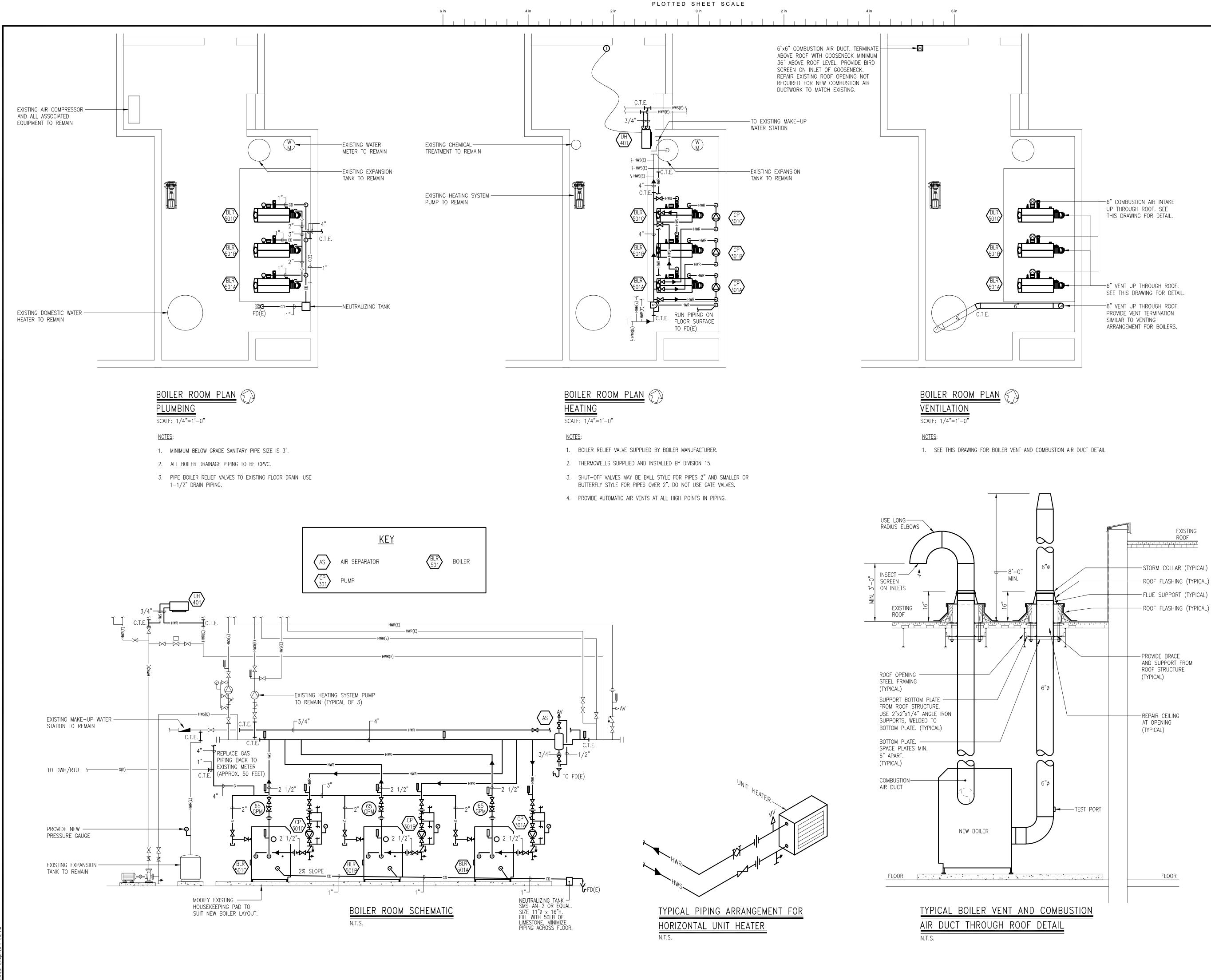
-REMOVE EXISTING BOILER AND ALL ASSOCIATED ACCESSORIES (TYPICAL OF 2)

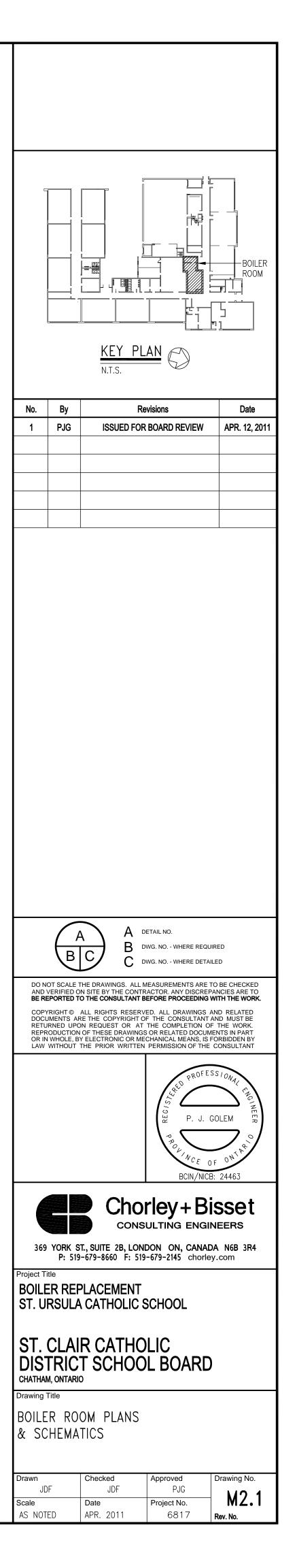
-REMOVE VENTING ASSOCIATED WITH EXISTING BOILER. PATCH ROOF OPENING TO MATCH EXISTING ROOF CONSTRUCTION. TURN OVER TO OWNER EXISTING BOILER/DWH VENTING BEING REMOVED. (TYPICAL OF 2)

DRAWING LIST

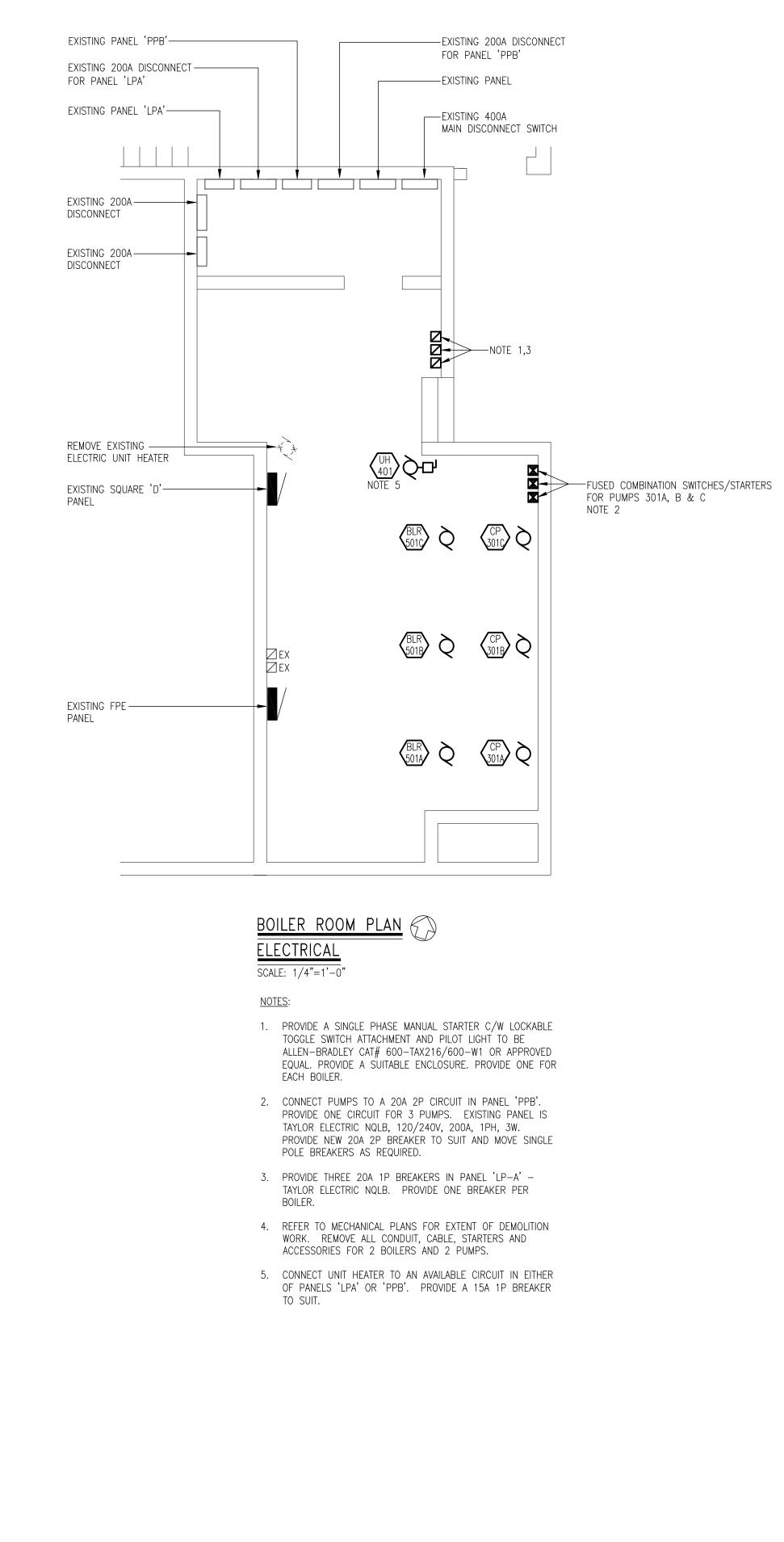
CHEDULES & BOILER ROOM DEMOLITION HEMATICS & DETAILS







6 in



4 in 2 in 0 in 2 in 4 in 6 in			PLOTTED SHEET SCALE			
	4 in	2 in	0 in	2 in	4 in	6 in

	ELECTRICAL LEGEND															
		DESCF	RIPTION				SYMBO	_					DESCRI	PTION		
	COMBINATIO	N MAGNETIC STARTER						• ■ □	LECTRIC							
	MANUAL STA	ARTER					EX					REMAIN				
Q	MOTOR	REM		EXISTING DEVICE TO BE REMOVED												
CIRCUIT BREAKER NEW										NEW DEVICE						
			Ν	1ECH	HANIC	CAL E	EQUIPMENT	SCHEDU	JLE							
		ENT SUPPLIED AND INST OTHERS WIRED BY DIV.					CONTROL EQUIPMENT SUPPLIED AND INSTALLED BY DIV. 16		/	MEP JZE	, 375 ,		COMM. SEF	117 SLF		
ITEM	DESCRIPTION	LOCATION	hp	МСА	PHASE	VOLTS	STARTER/CONTROL TYPE	FEED FRO	м / 着		27. 215 100	201103 537	COMM.	5	REMARKS/NOTE	S
BLR-501 A,B,C	BOILER	BOILER ROOM	FHP		1	120	MAN	EX. PANEL	. 20		1	2 #12	3/4"			

ITEM BLR-501 A,B,C		IT SUPPLIED AND INST THERS WIRED BY DIV. LOCATION BOILER ROOM	16 hp	MCA	PHASE		CONTROL EQUIPMENT SUPPLIED AND INSTALLED BY DIV. 16			FUSE SIZE	POLES 46		CONDING SIZE	7.32.F
BLR-501				МСА	PHASE		STARTER /CONTROL		/ \		1,~,	/ \)		<pre></pre>
	BOILER	BOILER ROOM			ITEM DESCRIPTION LOCATION hp MCA PHASE VOLTS STARTER/CONTROL TYPE									REMARKS/NOTES
											2	2 #12	3/4"	
CP-301 BC A,B,C											2	3 #12	3/4"	
UH-401	DS	EX. PANEL	15			2 #12	3/4"							
. PROVIDE LO	6 TO OBTAIN COPIES OCAL NON-FUSED DIS DICATED OTHERWISE A	604 OF THE	ONTARI	0 ELEC	[RICA	l safet	IY CODE							
		VIATION	S											
ALST AL	LTERNATOR STARTER							HOA	HAND-OFF-AUTO SELECTOR SWITCH					
СОМВ СО	OMBINATION DISCONNE	ECT SWITCH & STARTE	ER ON W	VALL A	DJACEN	Т МОТО	R	MAN	MANUA	L STAR	ER			
CON CO	ONTACTOR							MCA	MINIMU	IM CIRC	UIT A	AMPACITY	ſ	
DS UN	N-FUSED DISCONNEC	TSWITCH						МСС	MOTOR	CONTR	OL C	ENTRE		
FDS FU	USED DISCONNECT SW	VITCH						PL	PILOT	LIGHT				

