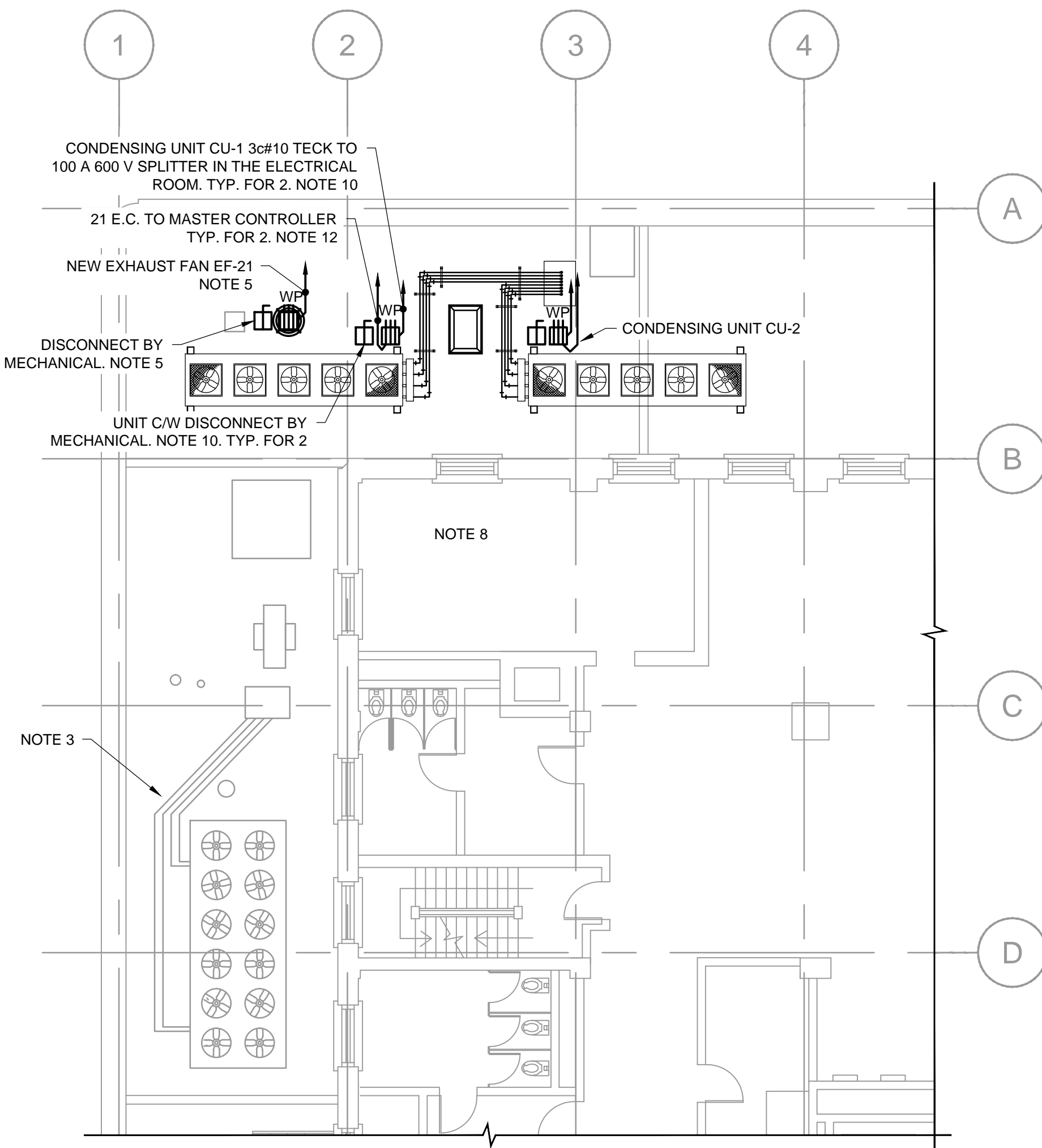
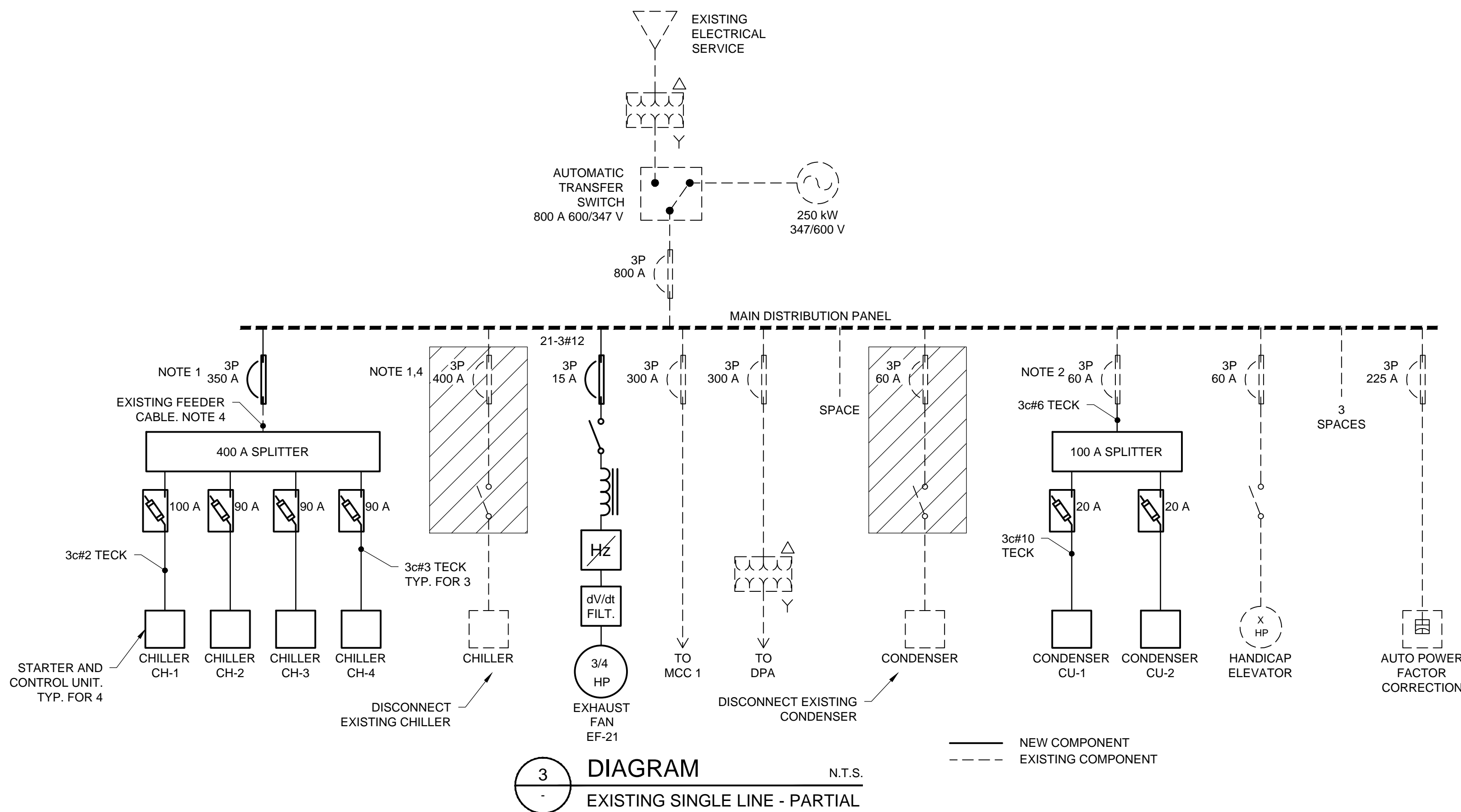


1 PLAN 1:100
BOILER ROOM



2 PLAN 1:100
ROOF



3 DIAGRAM N.T.S.
EXISTING SINGLE LINE - PARTIAL

- NOTES:
1. REPLACE EXISTING 400 A BREAKER IN MDP WITH NEW 350 A AND DESIGNATE FOR CHILLERS CH-1 TO CH-4 SPLITTER
 2. UTILIZE EXISTING 3P-60 A BREAKER FOR NEW CONDENSING UNITS CU-1 AND CU-2
 3. REMOVE FEEDER FROM EXISTING CONDENSING UNIT BACK TO EXISTING MDP
 4. DISCONNECT EXISTING CHILLER. UTILIZE EXISTING 400 MCM FEEDER FOR NEW CHILLER UNITS. VERIFY FEEDER CONDITION AND CODE COMPLIANCE PRIOR TO CONNECTION
 5. PROVIDE 3P-15 A CIRCUIT BREAKER IN EXISTING PANEL MDP AND DESIGNATE TO NEW EXHAUST FAN EF-21. CONNECT DRIVE AND DRIVE ACCESSORIES SUPPLIED BY MECHANICAL. PROVIDE 21 mm EMPTY CONDUIT FROM FAN STARTER TO EXISTING EMCS AND FROM FAN STARTER TO 24 V EXHAUST AND SUPPLY DAMPERS.
 6. UTILIZE EXISTING SPARE CIRCUIT BREAKER OAB-39 AND DESIGNATE TO CH-1 TO CH-4 MASTER CONTROL PANEL
 7. UTILIZE EXISTING SPARE CIRCUIT BREAKER OAB-41 AND DESIGNATE TO REFRIGERANT LEAK DETECTION
 8. ALL ELECTRICAL EQUIPMENT AND COMPONENTS SHOWN ARE NEW UNLESS NOTED OTHERWISE
 9. PROVIDE JUNCTION BOXES. CONDUIT AND WIRE AS REQUIRED TO ACCOMMODATE NEW EQUIPMENT CONNECTIONS
 10. ROUTE CONDUCTORS FROM ROOF MOUNTED CONDENSING UNITS TO BOILER ROOM IN PARALLEL WITH REFRIGERANT PIPING USING COMMON SUPPORTS. COORDINATE WITH MECHANICAL. CONNECT TO UNIT CONTROL CABINET WITH INTEGRAL DISCONNECT.
 11. CHILLERS ARE COMPLETE WITH INTEGRAL DISCONNECTS AND MOTOR STARTERS. PROVIDE 21 mm EMPTY CONDUIT BETWEEN MASTER CONTROLLER AND CHILLER.
 12. CONDENSING UNITS ARE COMPLETE WITH INTEGRAL DISCONNECTS AND STARTERS. PROVIDE 21 mm EMPTY CONDUIT BETWEEN MASTER CONTROLLER AND CONDENSING UNITS.

SYMBOL LEGEND

	EQUIPMENT CONNECTION 10
	EQUIPMENT CONNECTION 30
	TEMPERATURE TRANSMITTER
	REFRIGERANT LEAK DETECTOR
	LINE REACTOR
	LOAD FILTER
	EMPTY CONDUIT
	WEATHER PROOF
	MOTOR
	MOTOR DISCONNECT
	FUSED DISCONNECT
	COMB MAGNETIC STARTER
	CONDUIT ABOVE GROUND
	CONDUIT BELOW GROUND
	CONDUIT SIZE (mm)
	CONDUCTOR SIZE (AWG)
	NO. OF CONDUCTORS

SCHEMATIC SYMBOL LEGEND

	CIRCUIT BREAKER
	FUSED DISCONNECT SWITCH
	DISCONNECT SWITCH
	METER
	NORMALLY OPEN CONTACT
	MOTOR OVERLOAD

MOTOR CONTROL SCHEDULE														
DESIGN. TAG & NO.	DESCRIPTION	LOCATION	hp	MCA	VOLTS	Ø	MOTOR CONTROL			PROTECTION	FEEDER	DISC.	EQPT. STATUS	COMMENTS
							CIRCUIT	STARTER	ACCESSORIES					
CU-1	CONDENSING UNIT	ROOF		14.7	600	3	SPLITTER / MDP	BY MANUFACTURER	20 A FUSED SWITCH	20 A	3c#10 TECK	BY MANUFACTURER	NEW	PROVIDE EMPTY CONDUIT TO EXISTING BMCS
CU-2	CONDENSING UNIT	ROOF		14.7	600	3		BY MANUFACTURER	20 A FUSED SWITCH	20 A	3c#10 TECK	BY MANUFACTURER	NEW	PROVIDE EMPTY CONDUIT TO EXISTING BMCS
CH-1	CHILLER MODULE UNIT	BOILER ROOM		67.5	600	3	SPLITTER / MDP	VFD BY MANUFACTURER	100 A FUSED SWITCH	100 A	3c#2 TECK	BY MANUFACTURER	NEW	PROVIDE EMPTY CONDUIT TO EXISTING BMCS
CH-2	CHILLER MODULE UNIT	BOILER ROOM		67.5	600	3		BY MANUFACTURER	90 A FUSED SWITCH	90 A	3c#3 TECK	BY MANUFACTURER	NEW	PROVIDE EMPTY CONDUIT TO EXISTING BMCS
CH-3	CHILLER MODULE UNIT	BOILER ROOM		67.5	600	3		BY MANUFACTURER	90 A FUSED SWITCH	90 A	3c#3TECK	BY MANUFACTURER	NEW	PROVIDE EMPTY CONDUIT TO EXISTING BMCS
CH-4	CHILLER MODULE UNIT	BOILER ROOM		67.5	600	3		BY MANUFACTURER	90 A FUSED SWITCH	90 A	3c#3 TECK	BY MANUFACTURER	NEW	PROVIDE EMPTY CONDUIT TO EXISTING BMCS
EF-21	EXHAUST FAN	ROOF	3/4		600	3	MDP	VFD BY MANUFACTURER		15 A	21-3#12	BY MANUFACTURER	NEW	PROVIDE EMPTY CONDUIT FROM VFD TO EXISTING EMCS

0	ISSUED FOR TENDER	14/JUN/2013
REVISIONS	DESCRIPTION	DATE

A	A detail number
B	B source drawing no. de dessin no.

project title titre du projet

CHILLER REPLACEMENT GOC BUILDING

drawing title titre du dessin

PLANS AND DETAILS

designed by K. TUMA	conçu par
drawn by K. TUMA	dessiné par
approved by M. AKISTER	approuvé par
PMWSC Project Manager DAVE CHERKEWICH	Administrateur de Projets TPWSC
scale AS NOTED	échelle
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	sheet 7 OF 7