

SYMBOL	DESCRIPTION
	3 WAY MODULATING VALVE
呂	SOLENOID VALVE
ACV-3	ACTUATED CONTROL VALVE #3
COV-2 DXI N.C.	3 WAY MOTORIZED BUTTERFLY CHANGE OVER VALVE #2
BTU	BTU METER WITH SUPPLY & RETURN TEMPERATURE SENSOR IN RESPECTIVE PIPING
MBV	MOTORIZED 2 POSITION VALVE
CFM	AIR FLOW MEASURING STATION
FM-2	FLOW METER No.2
H-101	HUMIDITY SENSOR No. 101
H-HL	HUMIDISTAT — HIGH LIMIT
HL	HIGH LIMIT SENSOR
HS-1	HUMIDITY SENSOR NO.1
LL-1	LOW LIMIT SENSOR NO.1
OS	OUTDOOR AIR SENSOR
——————————————————————————————————————	PRESSURE SENSOR 102
P-201	DIFFERENTIAL PRESSURE SENSOR #201
	STATIC PRESSURE CONTROLLER No. 1 IN DUCT
SO	DIGITAL SYSTEM ON-OFF SWITCH WITH STATUS DISPLAY
SS	START-STOP BUTTON WITH LED STATUS DISPLAY
T-102	TEMPERATURE SENSOR No. 102
	TEMPERATURE DISPLAY
T-D	
TC	TEMPERATURE & CO2 SENSOR
TS-1	TEMPERATURE SENSOR NO.1
VFD	VARIABLE FREQUENCY DRIVE
WB	WET BULB SENSOR
<u> </u>	THERMOMETER
<b>T</b> 3	FREEZESTAT
	AIR FILTER
%	CHILLED WATER COIL
<u> </u>	DX COOLING COIL
<b>%</b>	HEATING COIL
M D	OPPOSED BLADE MOTORIZED DAMPER
(S)\(\sigma\)	SUPPLY AIR FAN
	2 WAY MODULATING VALVE
Θ	ROOM HUMIDITY SENSOR
 ©	ROOM SENSOR
<u> </u>	ROOM CO2 SENSOR
 ©	COMBINATION TEMPERATURE & CO2 SENSOR
C.S	CURRENT SENSOR
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
VFD	VARIABLE FREQUENCY DRIVE
VS	VELOCITY SENSOR AVERAGING TYPE
• G	EMERGENCY GAS SHUT-OFF STOPPER STATION

Alectra encourages Customers to design their underground primary/secondary service for ease of future maintenance so that they may have safe and reliable service. The primary/secondary duct that services a property should be as short as possible and installed in native soil or approved backfill. The duct should not be located underneath and/or embedded into Customer-owned infrastructure, such as parking garages, buildings, or other structures. Alectra will endeavor to work with the Customer to determine a mutually satisfactory location for the service equipment, however, the final location shall be at the determination of, and approved by, Alectra.

Extracts from Alectra Customer Owned Substation Guidelines

1. All Customer-Owned equipment must meet or exceed the requirements of the Ontario 2. The following supply voltages may be available in the following municipalities. The

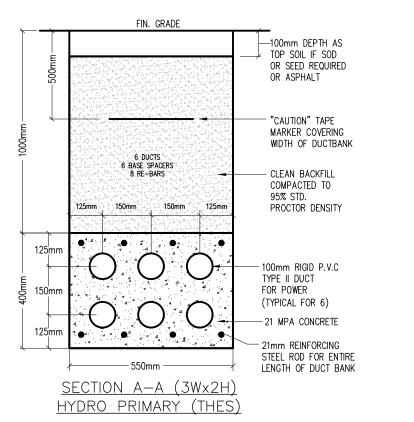
44 KV	27.6 kV	13.8 kV	8.32 kV	4.16 kV
Alliston	Brampton	Alliston	Brampton	Alliston
Aurora	Hamilton	Aurora	Hamilton	Barrie
Beeton	Markham	Barrie	Thornton	Brampton
Barrle	Mississauga	Beeton	Tottenham	Hamilton
Bradford	Richmond	Bradford	Penetanguishine	Penetanguishine
Brampton	Hill	Brampton	Vaughan	
Mississauga	Vaughan	Hamilton	Rockwood	

cable shall be installed in a customer-owned duct bank which shall have no more than three bends in the duct run. Bends shall be minimum 60" radius. The required number and size of duct shall be confirmed by Alectra Utilities during design work. The duct bank run

9. Except metering and primary voltage cable, no Alectra Utilities equipment shall be located

Extracted from Bousfield Planning sheet:

The required [pad mounted] transformer vault(s) and associated switch gear (if applicable) must be Internalized within the proposed built form and will not be permitted to be [located at grade in or



CONSTRUCT DUCT BANK IN ACCORDANCE WITH TORONTO HYDRO STANDARD FOR PRIMARY INCOMING DUCT BANKS, AND ONTARIO ELECTRICAL SAFETY CODE FOR CUSTOMER SECONDARY, INCLUDING BURIAL DEPTH OF DUCT BANK.

2. REFER TO STRUCTURAL FOR FORMING. 3. REFER TO FLOOR PLAN FOR ELEVATION WHEN RUN

DETAIL 1 / DUCT BANK CONFIGURATIONS

SYMBOL	DESCRIPTION
G	GAS LINE (LOW PRESSURE)
MG	GAS LINE (MEDIUM PRESSURE)
	SANITARY DRAIN HUNG
	SANITARY DRAIN BURIED OR IN FLOOR BELOW
P. SAN	PUMPED SANITARY
SAN-PK	SANITARY PARKING DRAIN
GW	GROUND WATER
P/GW	PUMPED GROUND WATER
	STORM DRAIN HUNG
P. STM ====	STORM DRAIN BURIED  PUMPED STORM
F. SIM	CONTROL FLOW
STM-SWM	STORM TO TANK
STM-CFT	STORM CONTROL FLOW FROM TANK
	GROUND WATER DRAIN PIPE
WT	WEEPING TILE INVERT AT 350 BELOW SLAB
	DRAINAGE PORT AT CAISSON SHORING WALL INVERT AT 350 BELOW SL/ C/W TREMCO, TREMDrain UNIVERSAL TEE AT EXTERIOR WALL WITH CLUE—ON CONNECTION TO SOLID DRAIN PIPE. NO DUCT TAPE JOINT
UDT	'UDT' — UNDER SLAB DRAINAGE TYPE INVERT AT 500 BELOW S
■ TD	TRENCH DRAIN
	PLUMBING VENT LINE
	VENT THRU ROOF
C/D	CONDENSATE DRAIN
•	DOMESTIC COLD WATER
··	DOMESTIC HOT WATER DECIDENTATION LINE
	DOMESTIC HOT WATER RECIRCULATION LINE
<del></del>	ELECTRIC PIPE TRACING — BY DIV. 15. POWER CONNECTION — BY DIV
<del></del>	SPRINKLER FLOW SWITCH
<del></del>	SPRINKLER LINE & SPRINKLER HEAD
	SPRINKLER LINE & SPRINKLER HEAD  SPRINKLER LINE & SIDEWALL TYPE SPRINKLER HEAD
SP	SPRINKLER LINE
B.W.V.	
	BACK WATER VALVE
	CHECK VALVE
F	FIRE LINE
co.	PLUMBING CLEANOUT
• — X N.F.H.B.	NON-FREEZE HOSE BIBB
	FIRE HOSE CABINET WITH 30m HOSE & FIRE EXTINGUISHER.  (FR) DENOTE FIRE RATED CABINET & 1 HR STANDPIPE FRE
Ø IIIIII IXI Ø FHC	FIRE HOSE CABINET WITH 30m HOSE & FIRE EXTINGUISHER.  (FR) DENOTE FIRE RATED CABINET
Ø IIIIIII IXI-Ø D−FHC	SAME AS ABOVE, 'D' INDICATE FOR DRY STANDPIPE SYSTEM.  (FR) DENOTE FIRE RATED CABINET
ØIMØ FHVC	FIRE HOSE VALVE COMBINATION CABINET WITH FIRE EXTINGUISHER, NO HOSE (FR) DENOTE FIRE RATED CABINET
Ø FHV	FIRE HOSE VALVE CABINET WITHOUT FIRE EXTINGUISHER, NO HOSE.  (FR) DENOTE FIRE RATED CABINET
<b>Ø</b> F.E.	RECESSED FIRE EXTINGUISHER WITH CABINET.  (FR) DENOTE FIRE RATED CABINET
<b>Ø</b> F.E.	FIRE EXTINGUISHER — WALL MOUNTED
<b>─</b> ~	SIAMESE CONNECTION
R.W.L.	RAIN WATER LEADER
<u> </u>	NEW UPRIGHT SPRINKLER HEAD
<del>-</del>	NEW PENDANT SPRINKLER HEAD
F.D.	FLOOR DRAIN
F.F.D.	FUNNEL FLOOR DRAIN
O R.D.	ROOF DRAIN
S.A.D.	SODDED AREA DRAIN
A.D.	AREA DRAIN
P.A.D.	PAVED AREA DRAIN
М.Н.	MANHOLE
С.В.	CATCH BASIN WITH GOSS TRAP
С.В.М.Н.	CATCH BASIN AND MANHOLE
B.F.P.	BACK FLOW PREVENTER
SV# 3	SUPERVISED VALVE NO. 3
	PUMP
$\bowtie$	DOMESTIC HOT WATER RECIRCULATION VALVE — GRISWOLD PRESSURE CONTROL INDEPENDENT, K VALVE LOW LEAD BRASS WITH INLET ISOLATI VALVE SET AT 0.5 GPM, C/W BALL VALVE DOWNSTREAM, UNLESS
	OTHERWISE NOTED
POC	POINT OF CONNECTION FOR IRRIGATION SYSTEM. RUN WATER PIPE IN—SLAB VIA CORELINE TO NEAREST BFP LINE FOR IRRIGATION SYSTEM. COORDINATE WITH LANDSCAPE CONTRACTOR FOR EXACT
	LOCATION PRIOR TO ROUGH—IN

RELIEF VALVE TERMINATE OVER NEAREST FUNNEL FLOOR DRAIN

DRIP LEG CONNECTION AT END OF LOW PRESSURE STEAM MAIN

STRAINER

PRESSURE GAUGE

THERMOMETER

+	SPRINKLER LINE & SPRINKLER HEAD	6F-8-FVB-30-	800 — MAX. AIR QUANTITIES SETTING 0 — DENOTES MINIMUM PRIMARY AIR SETTING 23,000 — REHEAT COIL CAPACITY IN BTUH
<del></del>	SPRINKLER LINE & SPRINKLER HEAD	800-0-23,000-RL	RL - DENOTES RELOCATED VAV BOX
	SPRINKLER LINE & SIDEWALL TYPE SPRINKLER HEAD		
	SPRINKLER LINE		FOR FAN POWERED VAV BOX WITH HOT WATER REHEAT COIL 6F— 6th FLOOR 11 — VAV BOX NUMBER 11
B.W.V.	BACK WATER VALVE		FVB-40 - FAN POWER VAV BOX, SIZE 40 1100 - MAX. AIR QUANTITIES SETTING
		6F-11-FVB-40- 1100-0-31,000-EX	0 — DENOTES MINIMUM PRIMARY AIR SETTING 31,000 — REHEAT COIL CAPACITY IN BTUH EX — DENOTES EXISTING VAV BOX
	CHECK VALVE	1100 0 31,000 EX	LX - DENOTES EXISTING VAV BOX
F	FIRE LINE		FAN POWER VAV BOX 6F – 6th Floor
CO.	PLUMBING CLEANOUT		26 — VAV BOX NUMBER 26 FVB—40 — FAN POWER BOX — SIZE 40
——•——X N.F.H.B.	NON-FREEZE HOSE BIBB	6F-26-FVB-40- 700-0-19,000	700 — MAX. AIR QUANTITIES SETTING 0 — MIN. PRIMARY AIR QUANTITIES SETTING EX — DENOTES EXISTING VAV BOX
	FIRE HOSE CABINET WITH 30m HOSE & FIRE EXTINGUISHER.  (FR) DENOTE FIRE RATED CABINET & 1 HR STANDPIPE FRE	(EX, RL, NEW)	RL — DENOTES RELOCATED EXISTING VAV BOX NEW — DENOTES NEW VAV BOX
	FIRE HOSE CABINET WITH 30m HOSE & FIRE EXTINGUISHER.	2F-12-1.8•	—— 2F — 2nd FLOOR, 12 — VAV BOX NUMBER, 1.8 — FLOW RATE IN GPM
	(FR) DENOTE FIRE RATED CABINET  SAME AS ABOVE, 'D' INDICATE FOR DRY STANDPIPE SYSTEM.	18,000	—— 18,000 — REHEAT COIL CAPACITY IN BTUH
FHVC	(FR) DENOTE FIRE RATED CABINET  FIRE HOSE VALVE COMBINATION CABINET WITH FIRE EXTINGUISHER, NO HOSE.	19ø EX •	EX - DENOTES EXISTING ACTUATED CONTROL VALVE TO REMAIN RN - DENOTES EXISTING ACTUATED CONTROL VALVE TO BE REPLACED
<u> </u>	(FR) DENOTE FIRE RATED CABINET  FIRE HOSE VALVE CABINET WITHOUT FIRE EXTINGUISHER, NO HOSE.		WITH NEW OF FLOW RATE AS INDICATED  NEW — DENOTES ALL NEW COMPONENTS INCLUDING THE HEATING COIL
Ø IMI FHV  IØIF.E.	(FR) DENOTE FIRE RATED CABINET  RECESSED FIRE EXTINGUISHER WITH CABINET.		
ØF.E.	(FR) DENOTE FIRE RATED CABINET	A • 3 •	—— DENOTES RADIATOR TYPE —— LENGTH OF ENCLOSURE (IN FT.)
ØF.E.	FIRE EXTINGUISHER — WALL MOUNTED	1.5 • 1035 •	—— LENGTH OF ELEMENT (IN FT.) —— CAPACITY IN BTUH
D P W I	SIAMESE CONNECTION	0.1 • A2 •	
R.W.L.	RAIN WATER LEADER	FFH-B•	— FORCED FLOW HEATER TYPE B
-	NEW UPRIGHT SPRINKLER HEAD	400 • RW •	
+	NEW PENDANT SPRINKLER HEAD	30000 • 2.5 •	
O F.D.	FLOOR DRAIN	1" • A8 •	— SUPPLY & RETURN PIPE SIZE TO HEATER  REFER TO DETAIL 'A8' FOR PIPE CONNECTION
O F.F.D.	FUNNEL FLOOR DRAIN		
O R.D.	ROOF DRAIN	HHP-2.0T-G5 • 5.0-25 •	
S.A.D.	SODDED AREA DRAIN		5.6 GPM FLOW RATE WITH 250 HPS & HPR PIPE TO THE HEAT PUMP
O A.D.	AREA DRAIN		
P.A.D.	PAVED AREA DRAIN	IFH-3 TO 7 F-1•	— IN-FLOOR HEATING ZONE FOR FLOOR 3 TO 7, ZONE 1
<b>М</b> .н.	MANHOLE	650 FT <sup>2</sup> • 26,000 BTUH •	
C.B.	CATCH BASIN WITH GOSS TRAP	5.2 GPM •	— FLOW RATE IN GPM @ 10°F ΔT
C.B.M.H.	CATCH BASIN AND MANHOLE		
B.F.P.	BACK FLOW PREVENTER		SADDLE TYPE. TOP INLET LIGHT TROFFER (8"ø)
SV# 3	SUPERVISED VALVE NO. 3		LINEAR DIFFUSER
			FB - TYPE, REFER TO SCHEDULE
	PUMP	25D2 0 CLOTO 0400L 700 4754	2400 - LINEAR LENGTH OF DIFFUSER IN MM
	PUMP  DOMESTIC HOT WATER RECIRCULATION VALVE — GRISWOLD PRESSURE	'FB'-2 SLOTSx 2400L-300-175ø	,
	DOMESTIC HOT WATER RECIRCULATION VALVE — GRISWOLD PRESSURE CONTROL INDEPENDENT, K VALVE LOW LEAD BRASS WITH INLET ISOLATION VALVE SET AT 0.5 GPM, C/W BALL VALVE DOWNSTREAM, UNLESS	'FB'-2 SLOTSx 2400L-300-175ø	2400 — LINEAR LENGTH OF DIFFUSER IN MM 300 — AIR FLOW IN CFM 175 — SIZE OF DUCT IN MM  ELECTRIC HEATER WITH BUILT—IN THERMOSTAT 'OUELLET', SUPPLY &
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POC	DOMESTIC HOT WATER RECIRCULATION VALVE — GRISWOLD PRESSURE CONTROL INDEPENDENT, K VALVE LOW LEAD BRASS WITH INLET ISOLATION VALVE SET AT 0.5 GPM, C/W BALL VALVE DOWNSTREAM, UNLESS OTHERWISE NOTED  POINT OF CONNECTION FOR IRRIGATION SYSTEM. RUN WATER PIPE IN—SLAB VIA CORELINE TO NEAREST BFP LINE FOR IRRIGATION SYSTEM. COORDINATE WITH LANDSCAPE CONTRACTOR FOR EXACT	B 4.0	2400 — LINEAR LENGTH OF DIFFUSER IN MM 300 — AIR FLOW IN CFM 175 — SIZE OF DUCT IN MM  ELECTRIC HEATER WITH BUILT—IN THERMOSTAT 'OUELLET', SUPPLY & INSTALLED BY DIV. 15, WIRED BY DIV. 16  TYPE A — OFM SERIES (BASEBOARD) TYPE B — OAWH SERIES (FORCED FLOW)
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SYMBOLS LI  SYMBOL  SYMBOL  ———————————————————————————————————	DOMESTIC HOT WATER RECIRCULATION VALVE — GRISWOLD PRESSURE CONTROL INDEPENDENT, K VALVE LOW LEAD BRASS WITH INLET ISOLATION VALVE SET AT 0.5 GPM, C/W BALL VALVE DOWNSTREAM, UNLESS OTHERWISE NOTED  POINT OF CONNECTION FOR IRRIGATION SYSTEM. RUN WATER PIPE IN—SLAB VIA CORELINE TO NEAREST BFP LINE FOR IRRIGATION SYSTEM. COORDINATE WITH LANDSCAPE CONTRACTOR FOR EXACT LOCATION PRIOR TO ROUGH—IN  ST — LIQUID HEAT TRANSFER  DESCRIPTION  BARE COPPER PIPE AS HEATING ELEMENT  CONDENSING WATER SUPPLY  CONDENSATE RETURN  CHILLED WATER RETURN	SYMBOLS  SYMBOL  AFG  AFF  AFR  AV	2400 - LINEAR LENGTH OF DIFFUSER IN MM 300 - AIR FLOW IN CFM 175 - SIZE OF DUCT IN MM  ELECTRIC HEATER WITH BUILT—IN THERMOSTAT 'OUELLET', SUPPLY & INSTALLED BY DIV. 15, WIRED BY DIV. 16  TYPE A - OFM SERIES (BASEBOARD) TYPE B - OAWH SERIES (FORCED FLOW) WHITE FINISHES  S LIST — ABBREVIATION  DESCRIPTION  ABOVE FINISHED GROUND  ABOVE FINISHED FLOOR  ABOVE FINISHED ROOF  AIR VENT
POC  SYMBOLS LI  SYMBOL  SYMBOL  CHR  CHR  CHS	DOMESTIC HOT WATER RECIRCULATION VALVE — GRISWOLD PRESSURE CONTROL INDEPENDENT, K VALVE LOW LEAD BRASS WITH INLET ISOLATION VALVE SET AT 0.5 GPM, C/W BALL VALVE DOWNSTREAM, UNLESS OTHERWISE NOTED  POINT OF CONNECTION FOR IRRIGATION SYSTEM. RUN WATER PIPE IN—SLAB VIA CORELINE TO NEAREST BFP LINE FOR IRRIGATION SYSTEM. COORDINATE WITH LANDSCAPE CONTRACTOR FOR EXACT LOCATION PRIOR TO ROUGH—IN  ST — LIQUID HEAT TRANSFER  DESCRIPTION  BARE COPPER PIPE AS HEATING ELEMENT  CONDENSING WATER SUPPLY  CONDENSATE RETURN  CHILLED WATER RETURN  CHILLED WATER SUPPLY	SYMBOLS  SYMBOLS  SYMBOL  AFG  AFF  AFR  AV  B/D	2400 - LINEAR LENGTH OF DIFFUSER IN MM 300 - AIR FLOW IN CFM 175 - SIZE OF DUCT IN MM  ELECTRIC HEATER WITH BUILT—IN THERMOSTAT 'OUELLET', SUPPLY & INSTALLED BY DIV. 15, WIRED BY DIV. 16  TYPE A - OFM SERIES (BASEBOARD) TYPE B - OAWH SERIES (FORCED FLOW)  WHITE FINISHES  S LIST - ABBREVIATION  DESCRIPTION  ABOVE FINISHED GROUND  ABOVE FINISHED FLOOR  ABOVE FINISHED ROOF  AIR VENT  BALANCING DAMPER
SYMBOLS LI  SYMBOL  SYMBOL  ———————————————————————————————————	DOMESTIC HOT WATER RECIRCULATION VALVE — GRISWOLD PRESSURE CONTROL INDEPENDENT, K VALVE LOW LEAD BRASS WITH INLET ISOLATION VALVE SET AT 0.5 GPM, C/W BALL VALVE DOWNSTREAM, UNLESS OTHERWISE NOTED  POINT OF CONNECTION FOR IRRIGATION SYSTEM. RUN WATER PIPE IN—SLAB VIA CORELINE TO NEAREST BFP LINE FOR IRRIGATION SYSTEM. COORDINATE WITH LANDSCAPE CONTRACTOR FOR EXACT LOCATION PRIOR TO ROUGH—IN  ST — LIQUID HEAT TRANSFER  DESCRIPTION  BARE COPPER PIPE AS HEATING ELEMENT  CONDENSING WATER SUPPLY  CONDENSATE RETURN  CHILLED WATER RETURN  CHILLED WATER SUPPLY  CONDENSING WATER RETURN	SYMBOLS  SYMBOLS  SYMBOL  AFG  AFF  AFR  AV  B/D  B.D.D.	2400 - LINEAR LENGTH OF DIFFUSER IN MM 300 - AIR FLOW IN CFM 175 - SIZE OF DUCT IN MM  ELECTRIC HEATER WITH BUILT—IN THERMOSTAT 'OUELLET', SUPPLY & INSTALLED BY DIV. 15, WIRED BY DIV. 16  TYPE A - OFM SERIES (BASEBOARD) TYPE B - OAWH SERIES (FORCED FLOW)  WHITE FINISHES  ELIST — ABBREVIATION  DESCRIPTION  ABOVE FINISHED GROUND  ABOVE FINISHED FLOOR  ABOVE FINISHED ROOF  AIR VENT  BALANCING DAMPER  BACK—DRAFT DAMPER
SYMBOLS LI  SYMBOL  SYMBOL  SYMBOL  CHR  CHR  CHR  CHS  CR  DTR  DTS	DOMESTIC HOT WATER RECIRCULATION VALVE — GRISWOLD PRESSURE CONTROL INDEPENDENT, K VALVE LOW LEAD BRASS WITH INLET ISOLATION VALVE SET AT 0.5 GPM, C/W BALL VALVE DOWNSTREAM, UNLESS OTHERWISE NOTED  POINT OF CONNECTION FOR IRRIGATION SYSTEM. RUN WATER PIPE IN—SLAB VIA CORELINE TO NEAREST BFP LINE FOR IRRIGATION SYSTEM. COORDINATE WITH LANDSCAPE CONTRACTOR FOR EXACT LOCATION PRIOR TO ROUGH—IN  ST — LIQUID HEAT TRANSFER  DESCRIPTION  BARE COPPER PIPE AS HEATING ELEMENT  CONDENSING WATER SUPPLY  CONDENSATE RETURN  CHILLED WATER RETURN  CHILLED WATER SUPPLY  CONDENSING WATER RETURN  DUAL TEMPERATURE RETURN	SYMBOLS SYMBOL  SYMBOL  AFG  AFF  AFR  AV  B/D  B.D.D.  C.S	2400 - LINEAR LENGTH OF DIFFUSER IN MM 300 - AIR FLOW IN CFM 175 - SIZE OF DUCT IN MM  ELECTRIC HEATER WITH BUILT—IN THERMOSTAT 'OUELLET', SUPPLY & INSTALLED BY DIV. 15, WIRED BY DIV. 16  TYPE A - OFM SERIES (BASEBOARD) TYPE B - OAWH SERIES (FORCED FLOW) WHITE FINISHES  S LIST - ABBREVIATION  DESCRIPTION  ABOVE FINISHED GROUND  ABOVE FINISHED FLOOR  ABOVE FINISHED ROOF  AIR VENT  BALANCING DAMPER  BACK-DRAFT DAMPER  CURRENT SENSOR
SYMBOLS LI  SYMBOL  SYMBOL  SYMBOL  BLP  CC  CD  CHR  CHS  CHS  DTR  DTS  GLR	DOMESTIC HOT WATER RECIRCULATION VALVE — GRISWOLD PRESSURE CONTROL INDEPENDENT, K VALVE LOW LEAD BRASS WITH INLET ISOLATION VALVE SET AT 0.5 GPM, C/W BALL VALVE DOWNSTREAM, UNLESS OTHERWISE NOTED  POINT OF CONNECTION FOR IRRIGATION SYSTEM. RUN WATER PIPE IN—SLAB VIA CORELINE TO NEAREST BFP LINE FOR IRRIGATION SYSTEM. COORDINATE WITH LANDSCAPE CONTRACTOR FOR EXACT LOCATION PRIOR TO ROUGH—IN  ST — LIQUID HEAT TRANSFER  DESCRIPTION  BARE COPPER PIPE AS HEATING ELEMENT  CONDENSING WATER SUPPLY  CONDENSATE RETURN  CHILLED WATER RETURN  CHILLED WATER SUPPLY  CONDENSING WATER SUPPLY  CONDENSING WATER RETURN  DUAL TEMPERATURE RETURN  DUAL TEMPERATURE SUPPLY  GLYCOL RETURN	SYMBOLS  SYMBOLS  SYMBOL  AFG  AFF  AFR  AV  B/D  B.D.D.  C.S  CTE	2400 - LINEAR LENGTH OF DIFFUSER IN MM 300 - AIR FLOW IN CFM 175 - SIZE OF DUCT IN MM  ELECTRIC HEATER WITH BUILT-IN THERMOSTAT 'OUELLET', SUPPLY & INSTALLED BY DIV. 15, WIRED BY DIV. 16  TYPE A - OFM SERIES (BASEBOARD) TYPE B - OAWH SERIES (FORCED FLOW) WHITE FINISHES  S LIST - ABBREVIATION  DESCRIPTION  ABOVE FINISHED GROUND  ABOVE FINISHED FLOOR  ABOVE FINISHED ROOF  AIR VENT  BALANCING DAMPER  BACK-DRAFT DAMPER  CURRENT SENSOR  CONNECT TO EXISTING
SYMBOLS LI  SYMBOL  SYMBOL  SYMBOL  BLP  CC  CD  CHR  CHS  CR  DTR  DTS  GLR  GLS	DOMESTIC HOT WATER RECIRCULATION VALVE — GRISWOLD PRESSURE CONTROL INDEPENDENT, K VALVE LOW LEAD BRASS WITH INLET ISOLATION VALVE SET AT 0.5 GPM, C/W BALL VALVE DOWNSTREAM, UNLESS OTHERWISE NOTED  POINT OF CONNECTION FOR IRRIGATION SYSTEM. RUN WATER PIPE IN—SLAB VIA CORELINE TO NEAREST BFP LINE FOR IRRIGATION SYSTEM. COORDINATE WITH LANDSCAPE CONTRACTOR FOR EXACT LOCATION PRIOR TO ROUGH—IN  ST — LIQUID HEAT TRANSFER  DESCRIPTION  BARE COPPER PIPE AS HEATING ELEMENT  CONDENSING WATER SUPPLY  CONDENSATE RETURN  CHILLED WATER RETURN  CHILLED WATER SUPPLY  CONDENSING WATER RETURN  DUAL TEMPERATURE RETURN  DUAL TEMPERATURE SUPPLY  GLYCOL SUPPLY	SYMBOLS  SYMBOLS  SYMBOL  AFG  AFF  AFR  AV  B/D  B.D.D.  C.S  CTE  EX	2400 - LINEAR LENGTH OF DIFFUSER IN MM  300 - AIR FLOW IN CFM  175 - SIZE OF DUCT IN MM  ELECTRIC HEATER WITH BUILT-IN THERMOSTAT 'OUELLET', SUPPLY & INSTALLED BY DIV. 15, WIRED BY DIV. 16  TYPE A - OFM SERIES (BASEBOARD)  TYPE B - OAWH SERIES (FORCED FLOW)  WHITE FINISHES   LIST - ABBREVIATION  DESCRIPTION  ABOVE FINISHED GROUND  ABOVE FINISHED FLOOR  ABOVE FINISHED ROOF  AIR VENT  BALANCING DAMPER  BACK-DRAFT DAMPER  CURRENT SENSOR  CONNECT TO EXISTING  EXISTING TO REMAIN
SYMBOLS LI  SYMBOL  SYMBOL  SYMBOL  BLP  CC  CD  CHR  CHS  CR  DTR  DTS  GLR  GLS  HPR	DOMESTIC HOT WATER RECIRCULATION VALVE — GRISWOLD PRESSURE CONTROL INDEPENDENT, K VALVE LOW LEAD BRASS WITH INLET ISOLATION VALVE SET AT 0.5 GPM, C/W BALL VALVE DOWNSTREAM, UNLESS OTHERWISE NOTED  POINT OF CONNECTION FOR IRRIGATION SYSTEM. RUN WATER PIPE IN—SLAB VIA CORELINE TO NEAREST BFP LINE FOR IRRIGATION SYSTEM. COORDINATE WITH LANDSCAPE CONTRACTOR FOR EXACT LOCATION PRIOR TO ROUGH—IN  ST — LIQUID HEAT TRANSFER  DESCRIPTION  BARE COPPER PIPE AS HEATING ELEMENT  CONDENSING WATER SUPPLY  CONDENSATE RETURN  CHILLED WATER RETURN  CHILLED WATER SUPPLY  CONDENSING WATER RETURN  DUAL TEMPERATURE RETURN  DUAL TEMPERATURE SUPPLY  GLYCOL SUPPLY  HEAT PUMP RETURN	SYMBOLS  SYMBOLS  SYMBOL  AFG  AFF  AFR  AV  B/D  B.D.D.  C.S  CTE  EX  FCRDM-3	2400 - LINEAR LENGTH OF DIFFUSER IN MM 300 - AIR FLOW IN CFM 175 - SIZE OF DUCT IN MM  ELECTRIC HEATER WITH BUILT—IN THERMOSTAT 'OUELLET', SUPPLY & INSTALLED BY DIV. 15, WIRED BY DIV. 16  TYPE A - OFM SERIES (BASEBOARD) TYPE B - OAWH SERIES (FORCED FLOW)  WHITE FINISHES  S LIST - ABBREVIATION  DESCRIPTION  ABOVE FINISHED GROUND  ABOVE FINISHED FLOOR  ABOVE FINISHED ROOF  AIR VENT  BALANCING DAMPER  BACK—DRAFT DAMPER  CURRENT SENSOR  CONNECT TO EXISTING  EXISTING TO REMAIN  FOR CONTINUATION, REFER TO DWG NO. M-3
POC  SYMBOLS LI  SYMBOL  SYMBOL  BLP  CC  CD  CHR  CHS  CR  DTR  DTS  GLR  HPR  HPS	DOMESTIC HOT WATER RECIRCULATION VALVE — GRISWOLD PRESSURE CONTROL INDEPENDENT, K VALVE LOW LEAD BRASS WITH INLET ISOLATION VALVE SET AT 0.5 GPM, C/W BALL VALVE DOWNSTREAM, UNLESS OTHERWISE NOTED  POINT OF CONNECTION FOR IRRIGATION SYSTEM. RUN WATER PIPE IN—SLAB VIA CORELINE TO NEAREST BFP LINE FOR IRRIGATION SYSTEM. COORDINATE WITH LANDSCAPE CONTRACTOR FOR EXACT LOCATION PRIOR TO ROUGH—IN  ST — LIQUID HEAT TRANSFER  DESCRIPTION  BARE COPPER PIPE AS HEATING ELEMENT  CONDENSING WATER SUPPLY  CONDENSING WATER SUPPLY  CONDENSING WATER RETURN  CHILLED WATER RETURN  CHILLED WATER RETURN  DUAL TEMPERATURE RETURN  DUAL TEMPERATURE SUPPLY  GLYCOL RETURN  GLYCOL SUPPLY  HEAT PUMP RETURN  HEAT PUMP RETURN	SYMBOLS  SYMBOLS  SYMBOLS  SYMBOL  AFG  AFF  AFR  AV  B/D  B.D.D.  C.S  CTE  EX  FCRDM-3  FRE	2400 - LINEAR LENGTH OF DIFFUSER IN MM 300 - AIR FLOW IN CFM 175 - SIZE OF DUCT IN MM  ELECTRIC HEATER WITH BUILT—IN THERMOSTAT 'OUELLET', SUPPLY & INSTALLED BY DIV. 15, WIRED BY DIV. 16  TYPE A - OFM SERIES (BASEBOARD) TYPE B - OAWH SERIES (FORCED FLOW) WHITE FINISHES  S LIST - ABBREVIATION  DESCRIPTION  ABOVE FINISHED GROUND  ABOVE FINISHED FLOOR  ABOVE FINISHED ROOF  AIR VENT  BALANCING DAMPER  CURRENT SENSOR  CONNECT TO EXISTING  EXISTING TO REMAIN  FOR CONTINUATION, REFER TO DWG NO. M-3  FIRE RATED ENCLOSURE
POC  SYMBOLS LI  SYMBOL  SYMBOL  SYMBOL  BLP  CC  CD  CHR  CHS  CHS  CR  DTR  DTS  GLR  HPR  HPS  HPS  HWR	DOMESTIC HOT WATER RECIRCULATION VALVE — GRISWOLD PRESSURE CONTROL INDEPENDENT, K VALVE LOW LEAD BRASS WITH INLET ISOLATION VALVE SET AT 0.5 GPM, C/W BALL VALVE DOWNSTREAM, UNLESS OTHERWISE NOTED  POINT OF CONNECTION FOR IRRIGATION SYSTEM. RUN WATER PIPE IN—SLAB VIA CORELINE TO NEAREST BFP LINE FOR IRRIGATION SYSTEM. COORDINATE WITH LANDSCAPE CONTRACTOR FOR EXACT LOCATION PRIOR TO ROUGH—IN  ST — LIQUID HEAT TRANSFER  DESCRIPTION  BARE COPPER PIPE AS HEATING ELEMENT  CONDENSING WATER SUPPLY  CONDENSATE RETURN  CHILLED WATER RETURN  CHILLED WATER RETURN  DUAL TEMPERATURE RETURN  DUAL TEMPERATURE SUPPLY  GLYCOL RETURN  GLYCOL SUPPLY  HEAT PUMP RETURN  HEAT PUMP SUPPLY  HEATING RETURN	SYMBOLS  SYMBOLS  SYMBOL  AFG  AFF  AFR  AV  B/D  B.D.D.  C.S  CTE  EX  FCRDM-3  FRE  F/D	2400 - LINEAR LENGTH OF DIFFUSER IN MM 300 - AIR FLOW IN CFM 175 - SIZE OF DUCT IN MM  ELECTRIC HEATER WITH BUILT-IN THERMOSTAT 'OUELLET', SUPPLY & INSTALLED BY DIV. 15, WIRED BY DIV. 16  TYPE A - OFM SERIES (BASEBOARD) TYPE B - OAWH SERIES (FORCED FLOW)  WHITE FINISHES  ELIST - ABBREVIATION  DESCRIPTION  ABOVE FINISHED GROUND  ABOVE FINISHED FLOOR  ABOVE FINISHED ROOF  AIR VENT  BALANCING DAMPER  CURRENT SENSOR  CONNECT TO EXISTING  EXISTING TO REMAIN  FOR CONTINUATION, REFER TO DWG NO. M-3  FIRE RATED ENCLOSURE  FIRE DAMPER
POC  SYMBOLS LI  SYMBOL  SYMBOL  BLP  CC  CD  CHR  CHS  CR  DTR  DTS  GLR  HPR  HPS	DOMESTIC HOT WATER RECIRCULATION VALVE — GRISWOLD PRESSURE CONTROL INDEPENDENT, K VALVE LOW LEAD BRASS WITH INLET ISOLATION VALVE SET AT 0.5 GPM, C/W BALL VALVE DOWNSTREAM, UNLESS OTHERWISE NOTED  POINT OF CONNECTION FOR IRRIGATION SYSTEM. RUN WATER PIPE IN-SLAB VIA COREINATE WITH LANDSCAPE CONTRACTOR FOR EXACT LOCATION PRIOR TO ROUGH—IN  ST — LIQUID HEAT TRANSFER  DESCRIPTION  BARE COPPER PIPE AS HEATING ELEMENT  CONDENSING WATER SUPPLY  CONDENSATE RETURN  CHILLED WATER RETURN  CHILLED WATER SUPPLY  CONDENSING WATER RETURN  DUAL TEMPERATURE RETURN  DUAL TEMPERATURE SUPPLY  GLYCOL RETURN  GLYCOL SUPPLY  HEAT PUMP RETURN  HEAT PUMP SUPPLY  HEATING SUPPLY  HEATING SUPPLY	SYMBOLS  SYMBOLS  SYMBOLS  AFG  AFF  AFR  AV  B/D  B.D.D.  C.S  CTE  EX  FORDM-3  FRE  F/D  LQ  M.D.	2400 - LINEAR LENGTH OF DIFFUSER IN MM 300 - AIR FLOW IN CFM 175 - SIZE OF DUCT IN MM  ELECTRIC HEATER WITH BUILT-IN THERMOSTAT 'OUELLET', SUPPLY & INSTALLED BY DIV. 15, WIRED BY DIV. 16  TYPE A - OFM SERIES (BASEBOARD) TYPE B - OAWH SERIES (FORCED FLOW)  WHITE FINISHES  S LIST - ABBREVIATION  DESCRIPTION  ABOVE FINISHED GROUND  ABOVE FINISHED FLOOR  ABOVE FINISHED ROOF  AIR VENT  BALANCING DAMPER  CURRENT SENSOR  CONNECT TO EXISTING  EXISTING TO REMAIN  FOR CONTINUATION, REFER TO DWG NO. M-3  FIRE RATED ENCLOSURE  FIRE DAMPER  LIQUID LINE
POC  SYMBOLS LI  SYMBOL  SYMBOL  SYMBOL  BLP  CC  CD  CHR  CHS  CHS  CR  DTR  DTS  GLR  HPR  HPS  HPS  HWR	DOMESTIC HOT WATER RECIRCULATION VALVE — GRISWOLD PRESSURE CONTROL INDEPENDENT, K VALVE LOW LEAD BRASS WITH INLET ISOLATION VALVE SET AT 0.5 GPM, C/W BALL VALVE DOWNSTREAM, UNLESS OTHERWISE NOTED  POINT OF CONNECTION FOR IRRIGATION SYSTEM. RUN WATER PIPE IN—SLAB VIA CORELINE TO NEAREST BFP LINE FOR IRRIGATION SYSTEM. COORDINATE WITH LANDSCAPE CONTRACTOR FOR EXACT LOCATION PRIOR TO ROUGH—IN  ST — LIQUID HEAT TRANSFER  DESCRIPTION  BARE COPPER PIPE AS HEATING ELEMENT  CONDENSING WATER SUPPLY  CONDENSING WATER SUPPLY  CONDENSING WATER RETURN  CHILLED WATER RETURN  CHILLED WATER RETURN  DUAL TEMPERATURE RETURN  DUAL TEMPERATURE SUPPLY  GLYCOL RETURN  GLYCOL SUPPLY  HEAT PUMP RETURN  HEAT PUMP SUPPLY  HEATING RETURN  HEATING SUPPLY  PIPING ANCHOR	SYMBOLS  SYMBOLS  SYMBOLS  SYMBOL  AFG  AFF  AFR  AV  B/D  B.D.D.  C.S  CTE  EX  FCRDM-3  FRE  F/D  LQ  M.D.  N.C.	2400 - LINEAR LENGTH OF DIFFUSER IN MM 300 - AIR FLOW IN CFM 175 - SIZE OF DUCT IN MM  ELECTRIC HEATER WITH BUILT—IN THERMOSTAT 'OUELLET', SUPPLY & INSTALLED BY DIV. 15, WIRED BY DIV. 16  TYPE A - OFM SERIES (BASEBOARD) TYPE B - OAWH SERIES (FORCED FLOW) WHITE FINISHES  S LIST — ABBREVIATION  DESCRIPTION  ABOVE FINISHED GROUND  ABOVE FINISHED FLOOR  ABOVE FINISHED ROOF  AIR VENT  BALANCING DAMPER  CURRENT SENSOR  CONNECT TO EXISTING  EXISTING TO REMAIN  FOR CONTINUATION, REFER TO DWG NO. M—3  FIRE RATED ENCLOSURE  FIRE DAMPER  LIQUID LINE  MOTORIZED DAMPER
POC  SYMBOLS LI  SYMBOL  SYMBOL  SYMBOL  BLP  CC  CD  CHR  CHS  CHS  CR  DTR  DTS  GLR  HPR  HPS  HPS  HWR	DOMESTIC HOT WATER RECIRCULATION VALVE — GRISWOLD PRESSURE CONTROL INDEPENDENT, K VALVE LOW LEAD BRASS WITH INLET ISOLATION VALVE SET AT 0.5 GPM, C/W BALL VALVE DOWNSTREAM, UNLESS OTHERWISE NOTED  POINT OF CONNECTION FOR IRRIGATION SYSTEM. RUN WATER PIPE IN-SLAB VIA COREINATE WITH LANDSCAPE CONTRACTOR FOR EXACT LOCATION PRIOR TO ROUGH—IN  ST — LIQUID HEAT TRANSFER  DESCRIPTION  BARE COPPER PIPE AS HEATING ELEMENT  CONDENSING WATER SUPPLY  CONDENSATE RETURN  CHILLED WATER RETURN  CHILLED WATER SUPPLY  CONDENSING WATER RETURN  DUAL TEMPERATURE RETURN  DUAL TEMPERATURE SUPPLY  GLYCOL RETURN  GLYCOL SUPPLY  HEAT PUMP RETURN  HEAT PUMP SUPPLY  HEATING SUPPLY  HEATING SUPPLY	SYMBOLS  SYMBOLS  SYMBOLS  SYMBOLS  AFG  AFF  AFR  AV  B/D  B.D.D.  C.S  CTE  EX  FCRDM-3  FRE  F/D  LQ  M.D.  N.C.  N.O.	2400 - LINEAR LENGTH OF DIFFUSER IN MM 300 - AIR FLOW IN CFM 175 - SIZE OF DUCT IN MM  ELECTRIC HEATER WITH BUILT-IN THERMOSTAT 'OUELLET', SUPPLY & INSTALLED BY DIV. 15, WIRED BY DIV. 16  TYPE A - OFM SERIES (BASEBOARD) TYPE B - OAWH SERIES (FORCED FLOW) WHITE FINISHES   B LIST - ABBREVIATION  DESCRIPTION  ABOVE FINISHED GROUND  ABOVE FINISHED ROOF  AIR VENT  BALANCING DAMPER  BACK-DRAFT DAMPER  CURRENT SENSOR  CONNECT TO EXISTING  EXISTING TO REMAIN  FOR CONTINUATION, REFER TO DWG NO. M-3  FIRE RATED ENCLOSURE  FIRE DAMPER  LIQUID LINE  MOTORIZED DAMPER  NORMALLY CLOSED  NORMALLY CLOSED  NORMALLY OPEN  OPEN ENDED DUCT C/W VOLUME DAMPER ¾" GRIDED ALUMINUM INSECT
POC  SYMBOLS LI  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  CHR  CHS  CHR  CHS  CHR  CHS  CHR  CHS  HPR  HPS  HWR  HWS  HWS	DOMESTIC HOT WATER RECIRCULATION VALVE — GRISWOLD PRESSURE CONTROL INDEPENDENT, K VALVE LOW LEAD BRASS WITH INLET ISOLATION VALVE SET AT 0.5 GPM, C/W BALL VALVE DOWNSTREAM, UNLESS OTHERWISE NOTED  POINT OF CONNECTION FOR IRRIGATION SYSTEM. RUN WATER PIPE IN—SLAB VIA CORELINE TO NEAREST BFP LINE FOR IRRIGATION SYSTEM. COORDINATE WITH LANDSCAPE CONTRACTOR FOR EXACT LOCATION PRIOR TO ROUGH—IN  ST — LIQUID HEAT TRANSFER  DESCRIPTION  BARE COPPER PIPE AS HEATING ELEMENT  CONDENSING WATER SUPPLY  CONDENSING WATER SUPPLY  CONDENSING WATER RETURN  CHILLED WATER RETURN  CHILLED WATER RETURN  DUAL TEMPERATURE RETURN  DUAL TEMPERATURE SUPPLY  GLYCOL RETURN  GLYCOL SUPPLY  HEAT PUMP RETURN  HEAT PUMP SUPPLY  HEATING RETURN  HEATING SUPPLY  PIPING ANCHOR	SYMBOLS  SYMBOLS  SYMBOL  AFG  AFF  AFR  AV  B/D  B.D.D.  C.S  CTE  EX  FCRDM-3  FRE  F/D  LQ  M.D.  N.C.  N.O.  O.E.D.	2400 - LINEAR LENGTH OF DIFFUSER IN MM 300 - AIR FLOW IN CFM 175 - SIZE OF DUCT IN MM  ELECTRIC HEATER WITH BUILT-IN THERMOSTAT 'OUELLET', SUPPLY & INSTALLED BY DIV. 15, WIRED BY DIV. 16  TYPE A - OFM SERIES (BASEBOARD) TYPE B - OAWH SERIES (FORCED FLOW) WHITE FINISHES  B LIST - ABBREVIATION  DESCRIPTION  ABOVE FINISHED GROUND  ABOVE FINISHED FLOOR  ABOVE FINISHED ROOF  AIR VENT  BALANCING DAMPER  BACK-DRAFT DAMPER  CURRENT SENSOR  CONNECT TO EXISTING  EXISTING TO REMAIN  FOR CONTINUATION, REFER TO DWG NO. M-3  FIRE RATED ENCLOSURE  FIRE DAMPER  LIQUID LINE  MOTORIZED DAMPER  NORMALLY CLOSED  NORMALLY OPEN  OPEN ENDED DUCT C/W VOLUME DAMPER ¼" GRIDED ALUMINUM INSECT SCREEN
SYMBOLS LI  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  CHR  CC  CD  CHR  CHS  CR  CR  CR  CR  CR  CR  CR  CR  CR  C	DOMESTIC HOT WATER RECIRCULATION VALVE — GRISWOLD PRESSURE CONTROL INDEPENDENT, K VALVE LOW LEAD BRASS WITH INLET ISOLATION VALVE SET AT 0.5 GPM, C/W BALL VALVE DOWNSTREAM, UNLESS OTHERWISE NOTED  POINT OF CONNECTION FOR IRRIGATION SYSTEM. RUN WATER PIPE IN—SLAB VIA CORELINE TO NEAREST BFP LINE FOR IRRIGATION SYSTEM. COORDINATE WITH LANDSCAPE CONTRACTOR FOR EXACT LOCATION PRIOR TO ROUGH—IN  ST — LIQUID HEAT TRANSFER  DESCRIPTION  BARE COPPER PIPE AS HEATING ELEMENT  CONDENSING WATER SUPPLY  CONDENSATE RETURN  CHILLED WATER RETURN  CHILLED WATER SUPPLY  CONDENSING WATER RETURN  DUAL TEMPERATURE RETURN  DUAL TEMPERATURE SUPPLY  GLYCOL RETURN  GLYCOL SUPPLY  HEAT PUMP SUPPLY  HEAT PUMP SUPPLY  HEATING RETURN  HEATING SUPPLY  PIPING EXPANSION LOOP COMPLETE WITH PIPE GUIDES	SYMBOLS  SYMBOLS  SYMBOLS  AFG  AFF  AFR  AV  B/D  B.D.D.  C.S  CTE  EX  FCRDM-3  FRE  F/D  LQ  M.D.  N.C.  N.O.  O.E.D.  O.M.D.	2400 - LINEAR LENGTH OF DIFFUSER IN MM 300 - AR FLOW IN CPM 175 - SIZE OF DUCT IN MM  ELECTIC HEATER WITH BUILT—IN THERMOSTAT 'OUELLET', SUPPLY & INSTALLED BY DIV. 15, WIRED BY DIV. 16  TYPE A - OFM SERIES (BASEBOARD) TYPE B - OAWH SERIES (FORCED FLOW) WHITE FINISHES  S LIST - ABBREVIATION  DESCRIPTION  ABOVE FINISHED GROUND  ABOVE FINISHED FLOOR  ABOVE FINISHED FLOOR  ABOVE FINISHED ROOF  AIR VENT  BALANCING DAMPER  BACK-DRAFT DAMPER  CURRENT SENSOR  CONNECT TO EXISTING  EXISTING TO REMAIN  FOR CONTINUATION, REFER TO DWG NO. M-3  FIRE RATED ENCLOSURE  FIRE DAMPER  LIQUID LINE  MOTORIZED DAMPER  NORMALLY OPEN  OPEN ENDED DUCT C/W VOLUME DAMPER ¼* GRIDED ALUMINUM INSECT SCREEN  OPEN ENDED DUCT C/W WOTORIZED DAMPER
POC  SYMBOLS LI  SYMBOL  SYMBOL  SYMBOL  BLP  C  CD  CHR  CHS  CR  DTR  DTS  GLR  HPR  HPS  HWR  HWS  HWS  HWS  TELL  TE	DOMESTIC HOT WATER RECIRCULATION VALVE — GRISWOLD PRESSURE CONTROL INDEPENDENT, K VALVE LOW LEAD BRASS WITH INLET ISOLATION VALVE SET AT 0.5 GPM, C/W BALL VALVE DOWNSTREAM, UNLESS OTHERWISE NOTED  POINT OF CONNECTION FOR IRRIGATION SYSTEM. RUN WATER PIPE IN-SLAB VIA CORELINE TO NEAREST BFP LINE FOR IRRIGATION SYSTEM. COORDINATE WITH LANDSCAPE CONTRACTOR FOR EXACT LOCATION PRIOR TO ROUGH—IN  ST — LIQUID HEAT TRANSFER  DESCRIPTION  BARE COPPER PIPE AS HEATING ELEMENT  CONDENSING WATER SUPPLY  CONDENSATE RETURN  CHILLED WATER RETURN  CHILLED WATER SUPPLY  CONDENSING WATER RETURN  DUAL TEMPERATURE RETURN  DUAL TEMPERATURE RETURN  GLYCOL SUPPLY  HEAT PUMP RETURN  HEAT PUMP RETURN  HEAT PUMP SUPPLY  PIPING ANCHOR  PIPING EXPANSION LOOP COMPLETE WITH PIPE GUIDES  GLOBE VALVE, S.A. ARMSTRONG CB SERIES CIRCUIT BALANCING VALVE	SYMBOLS  SYMBOLS  SYMBOLS  SYMBOL  AFG  AFF  AFR  AV  B/D  B.D.D.  C.S  CTE  EX  FCRDM-3  FRE  F/D  LQ  M.D.  N.C.  N.O.  O.E.D.  O.M.D.  PRV	2400 — LINEAR LENGTH OF DIFFUSER IN MM 300 — AIR FLOW IN CFM 175 — SIZE OF DUCT IN MM  ELECTRIC HEATER WITH BUILT—IN THERMOSTAT 'OUELLET', SUPPLY & INSTALLED BY DIV. 15, WIRED BY DIV. 16  TYPE A — OFM SERIES (BASEBOARD) TYPE B — OAWH SERIES (FORCED FLOW) WHITE FINISHES  S LIST — ABBREVIATION  DESCRIPTION  ABOVE FINISHED GROUND  ABOVE FINISHED FLOOR  ABOVE FINISHED FLOOR  ABOVE FINISHED ROOF  AIR VENT  BALANCING DAMPER  BACK—DRAFT DAMPER  CURRENT SENSOR  CONNECT TO EXISTING  EXISTING TO REMAIN  FOR CONTINUATION, REFER TO DWG NO. M—3  FIRE RATED ENCLOSURE  FIRE DAMPER  LIQUID LINE  MOTORIZED DAMPER  NORMALLY CLOSED  NORMALLY OPEN  OPEN ENDED DUCT C/W VOLUME DAMPER ¾" GRIDED ALUMINUM INSECT SCREEN  OPEN ENDED DUCT C/W MOTORIZED DAMPER  PRESSURE REDUCING VALVE
SYMBOLS LI  SYMBOL  SYMBOL  SYMBOL  SYMBOL  SYMBOL  CHR  CC  CD  CHR  CHS  CR  CR  CR  CR  CR  CR  CR  CR  CR  C	DOMESTIC HOT WATER RECIRCULATION VALVE — GRISWOLD PRESSURE CONTROL INDEPENDENT, K VALVE LOW LEAD BRASS WITH INLET ISOLATION VALVE SET AT 0.5 GPM, C/W BALL VALVE DOWNSTREAM, UNLESS OTHERWISE NOTED  POINT OF CONNECTION FOR IRRIGATION SYSTEM. RUN WATER PIPE IN—SLAB VIA CORELINE TO NEAREST BFP LINE FOR IRRIGATION SYSTEM. COORDINATE WITH LANDSCAPE CONTRACTOR FOR EXACT LOCATION PRIOR TO ROUGH—IN  ST — LIQUID HEAT TRANSFER  DESCRIPTION  BARE COPPER PIPE AS HEATING ELEMENT  CONDENSING WATER SUPPLY  CONDENSING WATER RETURN  CHILLED WATER RETURN  CHILLED WATER SUPPLY  CONDENSING WATER RETURN  DUAL TEMPERATURE RETURN  DUAL TEMPERATURE SUPPLY  GLYCOL SUPPLY  HEAT PUMP RETURN  HEAT PUMP RETURN  HEAT PUMP SUPPLY  HEATING RETURN  HEATING SUPPLY  PIPING ANCHOR  PIPING EXPANSION LOOP COMPLETE WITH PIPE GUIDES  GLOBE VALVE, S.A. ARMSTRONG CB SERIES CIRCUIT BALANCING VALVE	SYMBOLS SYMBOLS SYMBOLS SYMBOLS AFG AFF AFR AV B/D B.D.D. C.S CTE EX FCRDM-3 FRE F/D LQ M.D. N.C. N.O. O.E.D. O.M.D. PRV RL	2400 — LINEAR LENGTH OF DIFFUSER IN MM 300 — AIR FLOW IN CFM 175 — SIZE OF DUCT IN MM  ELECTRIC HEATER WITH BUILT—IN THERMOSTAT 'OUELLET', SUPPLY & INSTALLED BY DIV. 15, WIRED BY DIV. 16  TYPE A — OFM SERIES (BASEBOARD) TYPE B — OAWH SERIES (FORCED FLOW) WHITE FINISHES  S LIST — ABBREVIATION  DESCRIPTION  ABOVE FINISHED GROUND  ABOVE FINISHED FLOOR  ABOVE FINISHED ROOF  AIR VENT  BALANCING DAMPER  CURRENT SENSOR  CONNECT TO EXISTING  EXISTING TO REMAIN  FOR CONTINUATION, REFER TO DWG NO. M—3  FIRE RATED ENCLOSURE  FIRE DAMPER  LIQUID LINE  MOTORIZED DAMPER  NORMALLY CLOSED  NORMALLY OPEN  OPEN ENDED DUCT C/W VOLUME DAMPER ¾" GRIDED ALUMINUM INSECT SCREEN  OPEN ENDED DUCT C/W MOTORIZED DAMPER  PRESSURE REDUCING VALVE  RELOCATED
POC  SYMBOLS LI  SYMBOL  SYMBOL  BLP  CD  CHR  CHS  CHS  CR  DTR  DTS  GLR  HPR  HPS  HWR  HWS  THWS  CB  CB	DOMESTIC HOT WATER RECIRCULATION VALVE — GRISWOLD PRESSURE CONTROL INDEPENDENT, K VALVE LOW LEAD BRASS WITH INLET ISOLATION VALVE SET AT 0.5 GPM, C/W BALL VALVE DOWNSTREAM, UNLESS OTHERWISE NOTED  POINT OF CONNECTION FOR IRRICATION SYSTEM. RUN WATER PIPE IN—SLAB VIA CORELINE TO NEAREST BFP LINE FOR IRRIGATION SYSTEM. COORDINATE WITH LANDSCAPE CONTRACTOR FOR EXACT LOCATION PRIOR TO ROUGH—IN  STATEM. COORDINATE WITH LANDSCAPE CONTRACTOR FOR EXACT LOCATION PRIOR TO ROUGH—IN  BARE COPPER PIPE AS HEATING ELEMENT  CONDENSING WATER SUPPLY  CONDENSING WATER RETURN  CHILLED WATER RETURN  CHILLED WATER RETURN  DUAL TEMPERATURE RETURN  DUAL TEMPERATURE RETURN  GLYCOL RETURN  GLYCOL RETURN  HEAT PUMP RETURN  HEAT PUMP RETURN  HEAT PUMP SUPPLY  HEATING RETURN  HEATING SUPPLY  PIPING ANCHOR  PIPING EXPANSION LOOP COMPLETE WITH PIPE GUIDES  GLOBE VALVE, S.A. ARMSTRONG CB SERIES CIRCUIT BALANCING VALVE  FLOW SWITCH  CIRCUIT BALANCING VALVE ASSEMBLY — B & G AM SERIES WITH	SYMBOLS  SYMBOLS  SYMBOLS  SYMBOL  AFG  AFF  AFR  AV  B/D  B.D.D.  C.S  CTE  EX  FCRDM-3  FRE  F/D  LQ  M.D.  N.C.  N.O.  O.E.D.  O.M.D.  PRV	2400 - LINEAR LENGTH OF DIFFUSER IN MM 300 - AIR FLOW IN CFM 175 - SIZE OF DUCT IN MM  ELECTRIC HEATER WITH BUILT—IN THERMOSTAT 'OUELLET', SUPPLY & INSTALLED BY DIV. 15, WIRED BY DIV. 16  TYPE A - OFM SERIES (BASEBOARD) TYPE B - OAWH SERIES (FORCED FLOW) WHITE FINISHES  S LIST - ABBREVIATION  DESCRIPTION  ABOVE FINISHED GROUND  ABOVE FINISHED FLOOR ABOVE FINISHED ROOF  AIR VENT  BALANCING DAMPER  BACK—DRAFT DAMPER  CURRENT SENSOR  CONNECT TO EXISTING  EXISTING TO REMAIN  FOR CONTINUATION, REFER TO DWG NO. M—3  FIRE RATED ENCLOSURE  FIRE DAMPER  LIQUID LINE  MOTORIZED DAMPER  NORMALLY CLOSED  NORMALLY CLOSED  NORMALLY OPEN  OPEN ENDED DUCT C/W VOLUME DAMPER ¼" GRIDED ALUMINUM INSECT SCREEN  OPEN ENDED DUCT C/W MOTORIZED DAMPER  PRESSURE REDUCING VALVE  RELOCATED  LEAKAGE RATE 1 COMBINATION OF SMOKE/FIRE DAMPER WITH MOTORIZED DEPARTOR
SYMBOLS LI  SYMBOL  SYMBOL  BLP  CD  CHR  CHS  CR  DTR  DTS  GLR  HPR  HPS  HWR  HWS  HWS  CB  CB	DOMESTIC HOT WATER RECIRCULATION VALVE — GRISWOLD PRESSURE CONTROL INDEPENDENT, K VALVE LOW LEAD BRASS WITH INLET ISOLATION VALVE SET AT 0.5 GPM, C/W BALL VALVE DOWNSTREAM, UNLESS OTHERWISE NOTED  POINT OF CONNECTION FOR IRRIGATION SYSTEM. RUN WATER PIPE IN-SLAB VIA CORELINE TO NEAREST BFP LINE FOR IRRIGATION SYSTEM. COORDINATE WITH LANDSCAPE CONTRACTOR FOR EXACT LOCATION PRIOR TO ROUGH—IN  ST — LIQUID HEAT TRANSFER  DESCRIPTION  BARE COPPER PIPE AS HEATING ELEMENT  CONDENSING WATER SUPPLY  CONDENSING WATER SUPPLY  CONDENSING WATER RETURN  CHILLED WATER RETURN  CHILLED WATER RETURN  DUAL TEMPERATURE RETURN  DUAL TEMPERATURE SUPPLY  GLYCOL RETURN  GLYCOL RETURN  HEAT PUMP RETURN  HEAT PUMP RETURN  HEAT PUMP RETURN  HEAT PUMP SUPPLY  PIPING ANCHOR  PIPING EXPANSION LOOP COMPLETE WITH PIPE GUIDES  GLOBE VALVE, S.A. ARMSTRONG CB SERIES CIRCUIT BALANCING VALVE  GATE VALVE  FLOW SWITCH  CIRCUIT BALANCING VALVE ASSEMBLY — B & G AM SERIES WITH VALVE & UNION UP TO ½" TO 2"	SYMBOLS  SYMBOLS  SYMBOL  AFG  AFF  AFR  AV  B/D  B.D.D.  C.S  CTE  EX  FCRDM-3  FRE  F/D  LQ  M.D.  N.C.  N.O.  O.E.D.  O.M.D.  PRV  RL  SFD	2400 — LINEAR LENGTH OF DIFFUSER IN MM 300 — AIR FLOW IN CFM 175 — SIZE OF DUCT IN MM  ELECTRIC HEATER WITH, BUILT—IN THERMOSTAT 'OUELLET', SUPPLY & INSTALLED BY DIV. 15, WIRED BY DIV. 16  TYPE A — OFM SERIES (BASEBOARD) TYPE B — OAWH SERIES (FORCED FLOW) WHITE FINISHES   S LIST — ABBREVIATION  DESCRIPTION  ABOVE FINISHED GROUND  ABOVE FINISHED ROOF  AIR VENT  BALANCING DAMPER  BACK—DRAFT DAMPER  CURRENT SENSOR  CONNECT TO EXISTING  EXISTING TO REMAIN  FOR CONTINUATION, REFER TO DWG NO. M—3  FIRE RATED ENCLOSURE  FIRE DAMPER  LIQUID LINE  MOTORIZED DAMPER  NORMALLY CLOSED  NORMALLY OPEN  OPEN ENDED DUCT C/W VOLUME DAMPER ¼" GRIDED ALLUMINUM INSECT SCREEN  OPEN ENDED DUCT C/W MOTORIZED DAMPER  PRESSURE REDUCING VALVE  RELOCATED  LEAKAGE RATE 1 COMBINATION OF SMOKE/FIRE DAMPER WITH MOTORIZED OPERATOR  SKETCH DRAWINGS SK DENOTES SERVING NUMBER.
POC  SYMBOLS LI  SYMBOL  SYMBOL  BLP  CD  CHR  CHS  CHS  CR  DTR  DTS  GLR  HPR  HPS  HWR  HWS  THWS  CB  CB	DOMESTIC HOT WATER RECIRCULATION VALVE — GRISWOLD PRESSURE CONTROL INDEPENDENT, K VALVE LOW LEAD BRASS WITH INLET ISOLATION VALVE SET AT 0.5 GPM, C/W BALL VALVE DOWNSTREAM, UNLESS OTHERWISE NOTED  POINT OF CONNECTION FOR IRRIGATION SYSTEM. RUN WATER PIPE IN-SLAB VIA CORELINE TO NEAREST BFP LINE FOR IRRIGATION SYSTEM. COORDINATE WITH LANDSCAPE CONTRACTOR FOR EXACT LOCATION PRIOR TO ROUGH—IN  ST — LIQUID HEAT TRANSFER  DESCRIPTION  BARE COPPER PIPE AS HEATING ELEMENT  CONDENSING WATER SUPPLY  CONDENSING WATER SUPPLY  CONDENSING WATER RETURN  CHILLED WATER RETURN  CHILLED WATER RETURN  DUAL TEMPERATURE RETURN  DUAL TEMPERATURE RETURN  GLYCOL SUPPLY  HEAT PUMP RETURN  HEAT PUMP RETURN  HEAT PUMP SUPPLY  PIPING ANCHOR  PIPING EXPANSION LOOP COMPLETE WITH PIPE GUIDES  GLOBE VALVE, S.A. ARMSTRONG CB SERIES CIRCUIT BALANCING VALVE  FLOW SWITCH  CIRCUIT BALANCING VALVE ASSEMBLY — B & G AM SERIES WITH VALVE & UNION UP TO ½" TO 2"	SYMBOLS SYMBOLS SYMBOLS SYMBOLS AFG AFF AFR AV B/D B.D.D. C.S CTE EX FCRDM-3 FRE F/D LQ M.D. N.C. N.O. O.E.D. O.M.D. PRV RL	2400 — LINEAR LENGTH OF DIFFUSER IN MM 300 — AIR FLOW IN CFM 175 — SIZE OF DUCT IN MM  ELECTRIC HEATER WITH BUILT—IN THERMOSTAT 'OUELLET', SUPPLY & INSTALLED BY DIV. 15, WIRED BY DIV. 16  TYPE A — OFM SERIES (BASEBOARD) TYPE B — OAWH SERIES (FORCED FLOW) WHITE FINISHES  S LIST — ABBREVIATION  DESCRIPTION  ABOVE FINISHED GROUND  ABOVE FINISHED FLOOR  ABOVE FINISHED ROOF  AIR VENT  BALANCING DAMPER  CURRENT SENSOR  CONNECT TO EXISTING  EXISTING TO REMAIN  FOR CONTINUATION, REFER TO DWG NO. M—3  FIRE RATED ENCLOSURE  FIRE DAMPER  LIQUID LINE  MOTORIZED DAMPER  NORMALLY CLOSED  NORMALLY OPEN  OPEN ENDED DUCT C/W VOLUME DAMPER ¼" GRIDED ALUMINUM INSECT SCREEN  OPEN ENDED DUCT C/W MOTORIZED DAMPER  PRESSURE REDUCING VALVE  RELOCATED  LEAKAGE RATE 1 COMBINATION OF SMOKE/FIRE DAMPER WITH MOTORIZED OPERATOR  SKETCH DRAWINGS SK DENOTES SKETCH

SLAB ON GRADE

TOP OF SLAB

VOLUME DAMPER

SLEEVE THROUGH BEAM

SLEEVE THROUGH SHEAR WALL

VARIABLE FREQUENCY DRIVE

VELOCITY SENSOR AVERAGING TYPE

3M-2HR, U.L.C. LISTED FIRE WRAP

SOG

STSW

TOS

V/D

VS

3M-2HR

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME, REPORTING ANY DISCREPANCIES TO THE OWNER, BEFORE TENDER CLOSING. LATEST APPROVED DRAWINGS ONLY TO BE USED FOR CONSTRUCTION.

SYMBOLS LIST - HVAC

SUPPLY AIR DUCT

RETURN AIR DUCT

XTS-450x200-270

'A'-200ø-250

'A'-350X100-200

900-0-19,000-NEW

+

ACOUSTIC LINED DUCTWORK

APPLICATION; 270 CFM

NEW DUCTWORK

FIRE DAMPER

ACCESS DOOR

IN SINGLE LINE

BRANCH DUCT C/W SPLITTER DAMPER

'A' — DENOTES TYPE OF DIFFUSER 2000 DENOTES SIZE OF DIFFUSER 250 DENOTES AIR QUANTITIES IN CFM

DIFFUSER WITH SECTORING BAFFLE

200 DENOTES AIR QUANTITIES IN CFM

FVB-30 - FAN POWER VAV BOX, SIZE 30 900 — MAX. AIR QUANTITIES SETTING 0 — DENOTES MINIMUM PRIMARY AIR SETTING

FVB-30 - FAN POWER VAV BOX, SIZE 30 800 - MAX. AIR QUANTITIES SETTING 0 - DENOTES MINIMUM PRIMARY AIR SETTING

19,000 - HEATING CAPACITY IN BTUH NEW - DENOTES NEW VAV BOX

FOR FAN POWERED VAV BOX WITH HOT WATER REHEAT COIL

FOR FAN POWERED VAV BOX WITH HOT WATER REHEAT COIL

NEW ROUND DIFFUSER

RETURN AIR GRILLE

FOR GRILLES & DIFFUSERS, 'A' DENOTES TYPE, 350X100 DENOTES SIZE,

24 - VAV BOX NUMBER 24

6F – 6th FLOOR 8 – VAV BOX NUMBER 8

FLEXIBLE CONNECTION C/W BALANCING DAMPER

1" THICK ACOUSTIC LINED DUCT

CROSS TALK SILENCER WITH STC RATING TO MATCH ARCHITECTURAL DESIGN AT PENETRATION. 450x200 ARE APPROXIMATE DUCT SIZE FOR REFERENCE ONLY. OVERALL SIZE OF SILENCER IS LARGER & MUST BE

AS PER MANUFACTURER SHOP DRAWINGS TO SUIT THE REQUIREMENT &

DUCTWORK AND/OR ASSOCIATED EQUIPMENT SAME AS ABOVE BUT SHOWN

NEW SPIRAL DUCTWORK ALL DUCT SEALANT SHALL BE APPLIED INTERNALLY. PRIME COAT READY FOR PAINTING

BRANCH DUCT CONNECT TO MAIN C/W VOLUME DAMPER

PRINTS ARE NOT TO BE SCALED.

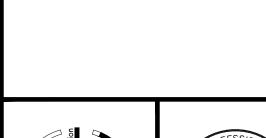
ISSUED DESCRIPTION 12/12/2024 ISSUED FOR OPA, ZBA & DPOS SUBMISSION

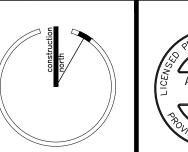
> DD/MM/YYYY DESCRIPTION

> > 160 Applewood Crescent, Unit 25, Concord, Ont., Canada L4K 4H2 Tel: (905) 660-7670

lam & Associates Utd.

Mechanical/Electrical Engineers
160 Applewood Crescent, Unit 25, Concord.







SITE PLAN & LEGEND MECHANICAL & ELECTRICAL

DATE: DECEMBER, 2024

CHECKED BY: P.L. DWG. NO. SCALE: 1:200 JOB NO: 24-05