

PURCHASING SECTION 13450 – 104 Avenue, Surrey BC V3T 1V8 Tel: 604-590-7274

E-mail: purchasing@surrey.ca

ADDENDUM #1

REQUEST FOR QUOTATIONS (RFQ) NO.: 1220-040-2018-030

TITLE: CHILLER REPLACEMENT – GUILDFORD RECREATIO

CENTRE

ADDENDUM ISSUE DATE: March 23, 2018

CLOSING DATE: prefer to receive Quotations on or before:

March 29, 2018

INFORMATION FOR CONTRACTORS

This Addendum is issued to provide additional information to the RFQ for the above named project, to the extent referenced and shall become a part thereof. No consideration will be allowed for extras due to the Contractor not being familiar with this Addendum. This Addendum No. 1 contains two (2) pages plus attachments for a total of seven (7) pages.

INFORMATION MEETING

A second information meeting will be hosted by the City Representative to discuss the City's requirements under this RFQ (the "Information Meeting"). While attendance is at the discretion of Contractors, Contractors who do not attend will be deemed to have attended the Information Meeting and to have received all of the information given at the Information Meeting.

Date: March 26, 2018

Time: 10:00 AM Pacific Time

Location: Meet in the foyer, 15105 - 105 Avenue, Surrey, BC V3R 7G8.

(North Recreation Centre and Library entrance)

It is possible that some questions raised and information provided during the second Information Meeting may be the only source of critical information essential to prepare and submit a successful Quotation. Contractors are responsible to ensure they are fully informed and have a clear understanding of the requirements.

Contractors are to examine the site prior to submitting a Quotation to fully acquaint themselves with all existing conditions reasonably inferable from examination of the site and its surroundings and the RFQ and to make allowance for such conditions in the Quotation. By submitting a Quotation, a Contractor represents that it has examined the site fully as to all conditions, contingencies, risks and circumstances, local or otherwise, which might influence or affect the performance of the Work.

Note: No minutes of the information meeting and site tour will be provided.

The Contractor is responsible for parking fees, if applicable.

CONTRACT DRAWINGS

The following drawings are hereby added to Schedule B – Appendix 2-A Contract Drawings – (Project) are included as part of this RFQ:

DRAWING #	DRAWING DESCRIPTION	DATE
E01	Site Plan, Drawing List, Legend & Symbol Schedule	2018-03-13
E02	Roof Demolition & New Electrical Plan	2018-03-13
E03	Mechanical Rooms	2018-03-13
E04	Electrical Specifications	2018-03-13
S1	General Notes, Plan & Details	2018-03-22

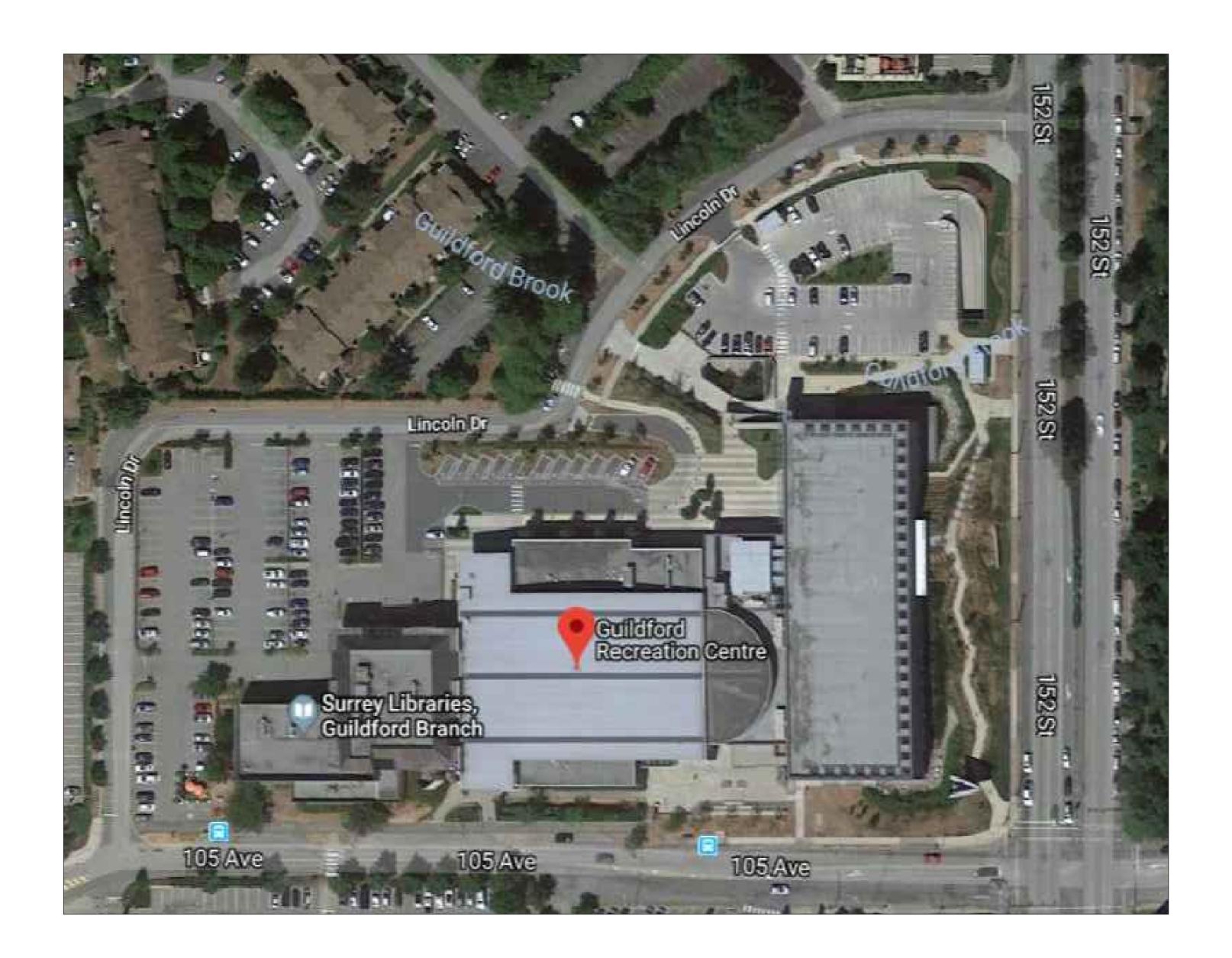
QUESTIONS & ANSWERS

- Q1. Drawing M1.01, gridlines B/3 asks to make good and match existing tile wall. Is that part of the scope?
- A1: NO it is not.
- Q2: Drawing M1.01, gridlines D/3 asks for new wall. Will this be part of the scope?
- **A2:** NO the wall is existing.

END OF ADDENDUM #1

All Addenda will become part of the RFQ Documents.

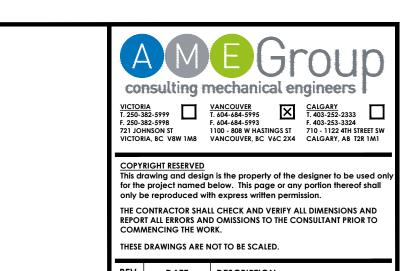
GUILDFORD RECREATION CENTRE CHILLER REPLACEMENT





	POWER		FIRE ALARM					
Φ	SINGLE RECEPTACLE		SMOKE DETECTOR					
Ф	DUPLEX RECEPTACLE		DUCT MOUNTED SMOKE DETECTOR					
#	FOUR PLEX RECEPTACLE	•	THERMAL DETECTOR					
Φ	ABOVE COUNTER DUPLEX RECEPTACLE		DUCT MOUNTED SMOKE DETECTOR					
₩	ABOVE COUNTER FOUR PLEX RECEPTACLE	E	FIRE ALARM PULL STATION					
Φ-	5-20R DUPLEX RECEPTACLE (T-SLOT)	F●	FIRE ALARM BELL					
	ABOVE COUNTER 5-20R DUPLEX RECEPTACLE (T-SLOT)	·	FIRE ALARM GONG					
#	1/2 SWITCHED DUPLEX RECEPTACLE	.	FIRE ALARM GONG W/STROBE					
Ф	SPLIT DUPLEX RECEPTACLE	F⊲	FIRE ALARM HORN					
Ф	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE	⊬ F >	FIRE ALARM STROBE					
#	GROUND FAULT INTERRUPTER FOUR PLEX RECEPTACLE	F	CEILING MOUNTED FIRE ALARM SPEAKER					
Φ	FLOOR MOUNTED DUPLEX RECEPTACLE	ΗF	WALL MOUNTED FIRE ALARM SPEAKER					
J	JUNCTION BOX							
lacktriangle	MECHANICAL EQUIPMENT DIRECT CONNECTION		ABBREVIATIONS					
\bigcirc	KITCHEN EQUIPMENT CONNECTION	NOTE	EQUIPMENT SHOWN DOTTED IS EXISTING AND TO REMAIN UNLESS INDICATED OTHERWISE					
\$	VARIABLE SPEED SWITCH							
T	THERMOSTAT	AC	ABOVE COUNTER					
9	MECHANICAL MOTOR CONNECTION	D	INDICATES CIRCUIT TO BE DEDICATED INDICATES ROUGH-IN ONLY					
마	DISCONNECT SWITCH	RI						
\boxtimes	MAGNETIC STARTER	NL D	NIGHT LIGHT					
_	GROUND BUS	R	EXISTING DEVICE TO BE REMOVED AND DELOCATED					
	PANEL BOARD	RR	EXISTING DEVICE TO BE REMOVED AND RELOCATED					
•	PUSH BUTTON	RE	EXISTING DEVICE IN NEW RELOCATED POSITION EXISTING DEVICE TO BE REPLACED WITH NEW					
0	EMERGENCY PUSH BUTTON	RP WB						
		WP	WEATHER PROOF					
		IG	ISOLATED GROUND					
		E	EXISTING DEVICE TO REMAIN					

DRAWING LIST						
DESCRIPTION						
SITE PLAN, DRAWING LIST, LEGEND & SYMBOL SCHEDULE						
ROOF DEMOLITION & NEW ELECTRICAL PLAN						
MECHANICAL ROOMS						
ELECTRICAL SPECIFICATION						

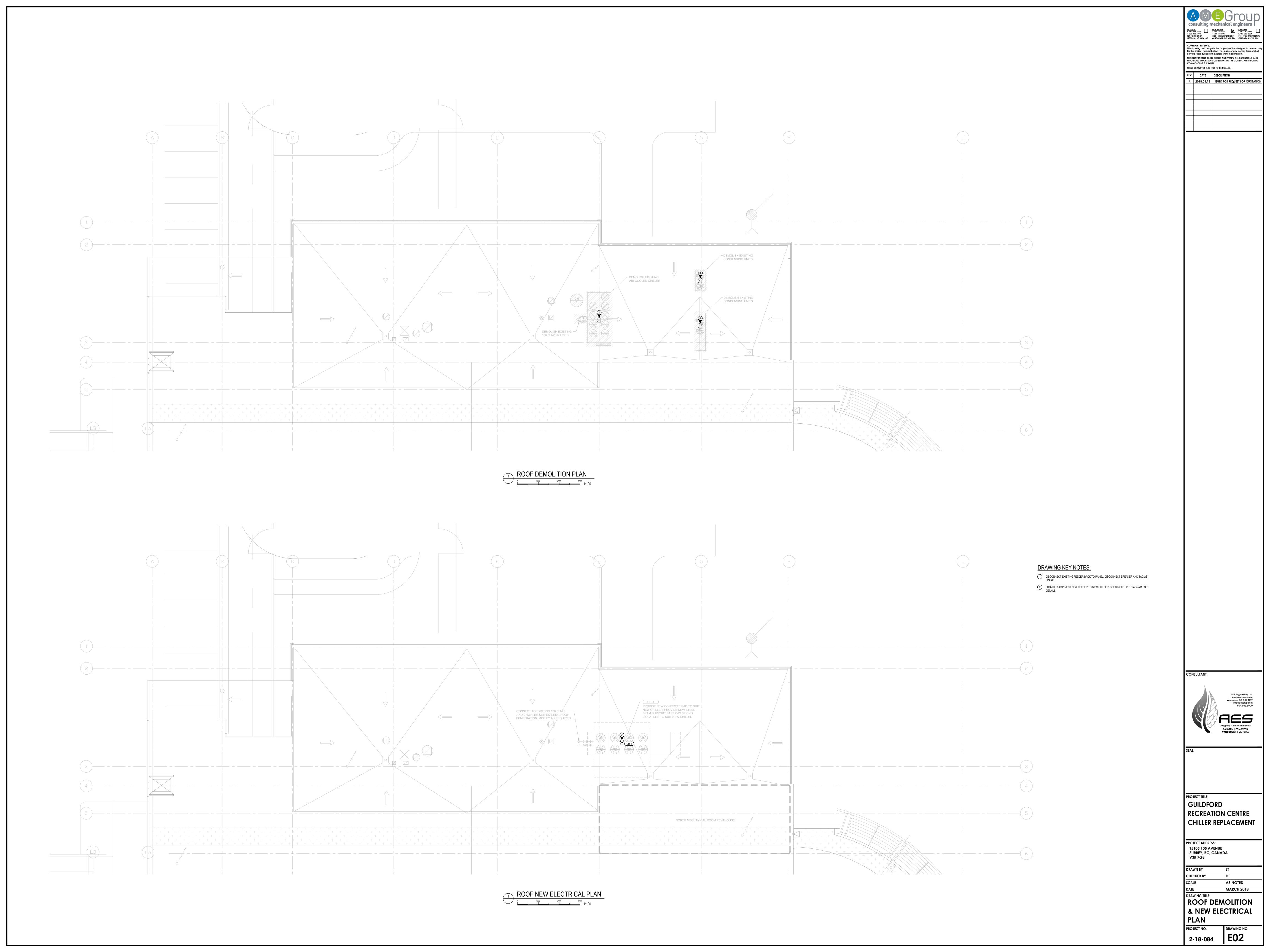


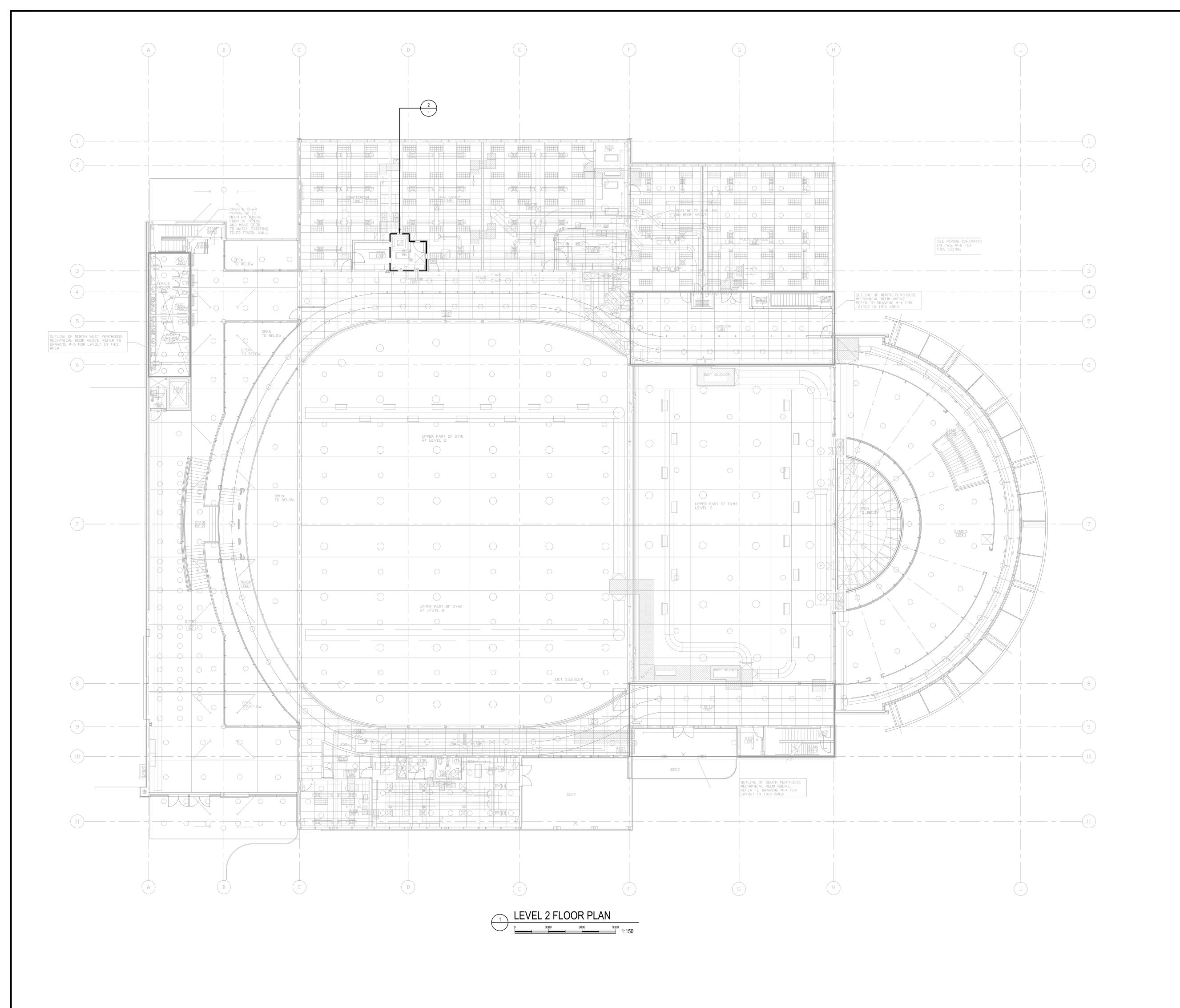


GUILDFORD RECREATION CENTRE CHILLER REPLACEMENT

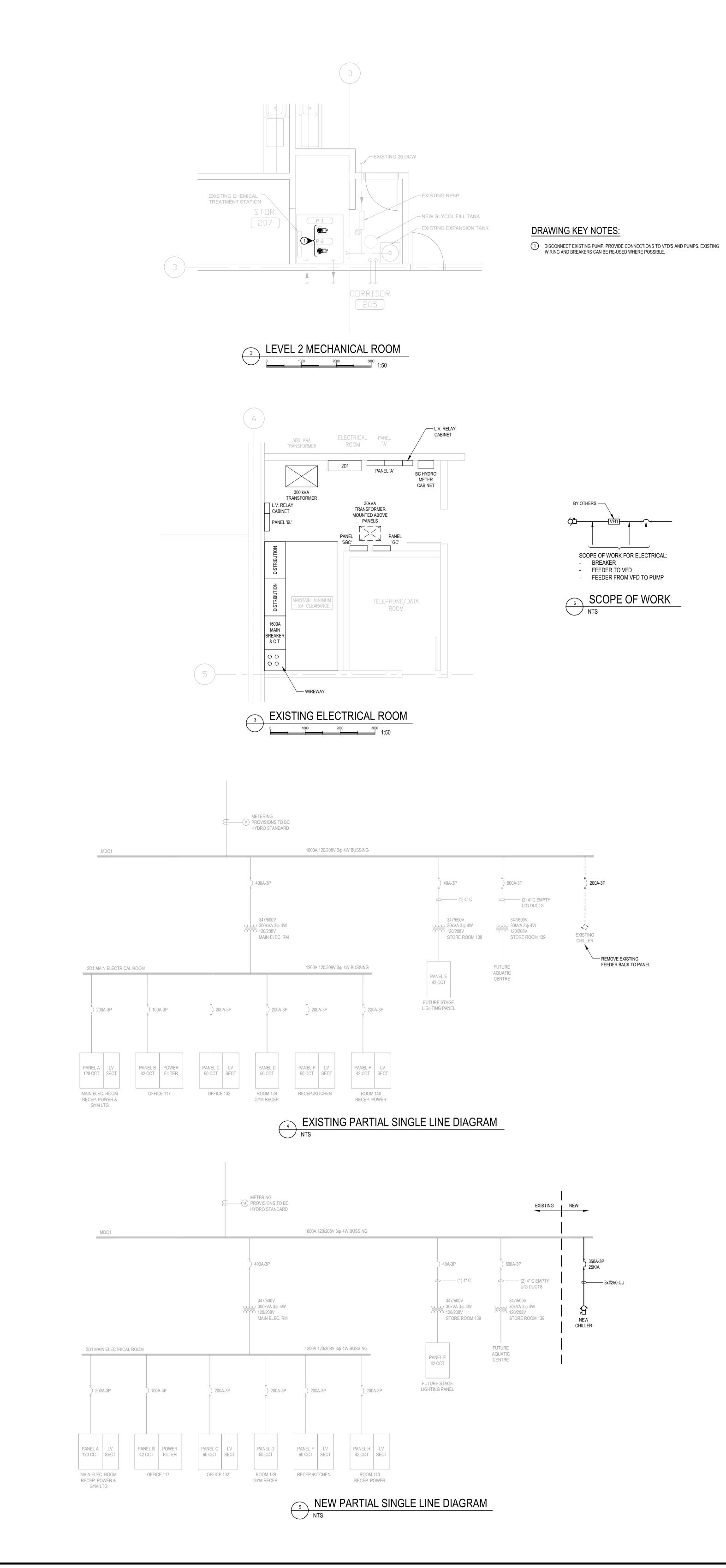
MARCH 2018

DRAWING TITLE:
SITE PLAN, DRAWING LIST, LEGEND & SYMBOL SCHEDULE





CHILLERS CHILLERS					EMG PWR	ELEC LOAD	VOLT			EQUIPMENT	Γ	STARTER					CONTROL			
CH-1 1 ROOF 150 TON AIR COOLED CHILLER PUMPS	UNIT NUMBER	QTY	UNIT LOCATION	UNIT DESCRIPTION	REQUIRED (YES/NO)	(AS NOTED)	PH HZ	BREAKER	S	1	С	S	1	С	TYPE	S	1	С	TYPE	NOTES
Pumps																				
P-1 1 LEVEL 2 MECHANICAL ROOM MAIN CHILLED WATER PUMP N 7.5 HP 208/3/60 M M M E M M E VFD M M M DDC MISCELLANGUS N MISCELLANGUS N MISCELLANGUS N MISCELLANGUS N MISCELLANGUS N MISCELLANGUS N M M E M M E VFD M M M M DDC N MISCELLANGUS N M M M E M M E VFD M M M M DDC N MISCELLANGUS N M M M E M M M E VFD M M M M DDC N M M M E M M M E VFD M M M M DDC N M M M E M M M E VFD M M M M M DDC N M M M E M M M M M M M DDC N M M M M E M M M M M M M M M M M M M M	CH-1	1	ROOF		N	246 MCA, 350 MOP	575/3/60	350A-3P	М	М	E	М	M	E	PCS	М	M	M	DDC	1,2,3
P-2 1 LEVEL 2 MECHANICAL ROOM MAIN CHILLED WATER PUMP N 7.5 HP 208/3/60 N M M E M M E VFD M M M DDC - 1 STORAGE 207 CIRCUIT FOR NEW CONTROLS N 15 AMP 120/1/60 15A-1P				PUMPS																
MISCELLANEOUS	P-1	1	LEVEL 2 MECHANICAL ROOM	MAIN CHILLED WATER PUMP	N	7.5 HP	208/3/60		М	M	E	М	M	E	VFD	М	M	M	DDC	1,2,3
- 1 STORAGE 207 CIRCUIT FOR NEW CONTROLS N 15 AMP 120/1/60 15A-1P	P-2	1	LEVEL 2 MECHANICAL ROOM		N	7.5 HP	208/3/60		М	М	Е	М	М	Е	VFD	М	М	М	DDC	1,2,3
NORTH MECHANICAL ROOM CIRCUIT FOR NEW CONTROLS N 15 AMP 120/1/60 15 A-1P																				
EFINITIONS: ELEC = ITEM IS IN THE ELECTRICAL (DIV 16) CONTRACTOR SCOPE OF WORK MECH = ITEM IS IN THE MECHANICAL (DIV 15) SCOPE OF WORK S = SUPPLIED BY I = INSTALLED BY I = INSTALLED BY C = CONNECTED BY HOA = MAGNETIC STARTER C/W HAND/OFF/AUTO SWITCH & AUX STATUS CONTACTS MAD = MANUAL STARTER MAG = MAGNETIC STARTER C/W AUX STATUS CONTACTS MAG = MAGNIMUM CIRCUIT AMPS MAG = MAGNIMUM FUSE AMPS	-	1			N				-	-	-	-	-	-	-	-	-	-	-	4
MECH = ITEM IS IN THE MECHANICAL (DIV 15) SCOPE OF WORK S = SUPPLIED BY I = INSTALLED BY C = CONNECTED BY HOA = MAGNETIC STARTER C/W HAND/OFF/AUTO SWITCH & AUX STATUS CONTACTS MAG = MAGNETIC STARTER C/W AUX STATUS CONTACTS MAG = MASIMUM CIRCUIT AMPS INT = CONTROL IS INTEGRAL TO UNIT (BY MANUFACTURER) J ALL DISCONNECTS ARE TO S, I AND C BY ELECTRICAL SINGLE POINT CONNECTION UNIT SINGLE POINT CONNECTION UNIT UNIT SHALL BE DDC CONTROLLED PROVIDE POWER PROVIDE POWER ALL DISCONNECTS ARE TO S, I AND C BY ELECTRICAL ALL DISCONNECTS ARE TO S, I AND C BY ELECTRICAL SINGLE POINT CONNECTION UNIT NIT SHALL BE DDC CONTROLLED PROVIDE POWER A. PROVIDE POWER	-	1	NORTH MECHANICAL ROOM	CIRCUIT FOR NEW CONTROLS	N	15 AMP	120/1/60	15A-1P	-	-	-	-	-	-	-	-	-	-	-	-
PH = POWER PHASE SW = WIRED TO SWITCH/STARTER HP = UNIT OR MOTOR HORSE POWER HSW= EXHAUST HOOD MOUNTED START AND STOP SWITCH DDC= DIRECT DIGITAL CONTROL SYSTEM VS = REFER TO DRAWINGS FOR QUANTITY OF UNITS MOP = MAXIMUM OVERCURRENT PROTECTION HP = UNIT OR MOTOR HORSE POWER DDC= DIRECT DIGITAL CONTROL SYSTEM FAP = FIRE ALARM PANEL			I = INSTALLED BY C = CONNECTED BY HOA = MAGNETIC STARTER C/W HAND/O MAN = MANUAL STARTER MAG = MAGNETIC STARTER C/W AUX STA INT = CONTROL IS INTEGRAL TO UNIT (BY AQUA = PUMP CONTROLLED BY AQUAST PH = POWER PHASE SW = WIRED TO SWITCH/STARTER HSW= EXHAUST HOOD MOUNTED START	ATUS CONTACTS (MANUFACTURER) AT AND STOP SWITCH	VFD = VARIABLE FRI OS = OCCUPANT SE VOLT = REQUIRED S BCP = BOILER CONT MCA = MINIMUM CIR MFA = MAXIMUM FU: FLA = UNIT FULL LO; MOP = MAXIMUM OV HP = UNIT OR MOTO DDC= DIRECT DIGIT;	EQUENCY DRIVE NSOR SUPPLY VOLTAGE TROL PANEL CUIT AMPS SE AMPS AD AMPS VERCURRENT PROTECTION OR HORSE POWER AL CONTROL SYSTEM				3.	UNIT SHAL	L BE DDC C								



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> CONSULTANT: AES Engineering Ltd. 1330 Granville Street Vancouver, BC V6Z 1M7 info@aesengr.com 604.569.6500 Designing A Better Tomorrow
> CALGARY | EDMONTON
> VANCOUVER | VICTORIA

PROJECT TITLE: GUILDFORD RECREATION CENTRE CHILLER REPLACEMENT

15105 105 AVENUE SURREY, BC, CANADA V3R 7G8

CHECKED BY AS NOTED MARCH 2018 MECHANICAL

ROOMS

PROJECT NO. 2-18-084

DRAWING NO. E03

10. EXAMINATION OF THE SITE 23. SWITCHES AND RECEPTACLES .1 GENERAL REQUIREMENTS, INSTRUCTIONS TO BIDDERS, THIS SPECIFICATION AND ANY ADDENDA HERETO FORM PART OF THE PRIOR TO SUBMITTING TENDER, THE ELECTRICAL TRADE SHALL CAREFULLY EXAMINE THE SITE AND ASCERTAIN ALL .1 ALL SWITCHES AND RECEPTACLES SHALL BE COMMERCIAL GRADE. MATCH EXISTING STANDARD WHERE STANDARD IS CONTRACT DOCUMENTS AND SHALL BE READ IN CONJUNCTION WITH THEM. WORK TO INCLUDE THE FURNISHING OF ALL CONDITIONS WHICH MAY AFFECT HIS TRADE. NO ADDITIONAL MONEY WILL BE ALLOWED FOR WORK RESULTING FROM PRESENT. WHERE NO STANDARD IS PRESENT, PROVIDE WHITE DECORA SWITCHES AND RECEPTACLES AND WHITE DECORA LABOR AND MATERIALS, UNLESS SPECIFIED OTHERWISE, TO COMPLETE AND PUT INTO OPERATING CONDITION ALL CONDITIONS THAT SHOULD HAVE BEEN NOTICED AND ACCOUNTED FOR DURING A THOROUGH EXAMINATION OF THE ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN. SITE.CUTTING AND PATCHING .2 PROVIDE P-TOUCH LABELS FOR ALL RECEPTACLE LABELS. .2 IT IS THE INTENT OF THE WORK TO PROVIDE COMPLETE, NEATLY FINISHED, AND OPERATIONAL SYSTEMS AND ANY LABOR, .2 THE GENERAL TRADE WILL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR ELECTRICAL INSTALLATION. .3 FOR ALL RECEPTACLES OTHER THAN STANDARD 15A DUPLEX RECEPTACLES, PROVIDE LAMACOID NAMETAGS GIVING AMP MATERIAL, PERMITS, LICENSES, APPROVALS AND INSPECTIONS REQUIRED FOR COMPLETION OF THE WORK, WHETHER STRUCTURAL MEMBERS MUST NOT BE CUT WITHOUT CONSENT OF THE ENGINEER. SPECIFICALLY MENTIONED IN THE DRAWINGS OR SPECIFICATIONS OR NOT, ARE TO BE INCLUDED IN THE TENDERED PRICE. RATING, PHASE AND VOLTAGE. 3 WHERE WORK DONE BY THE ELECTRICAL TRADE DAMAGES THE WORK OF OTHER TRADES, THE ELECTRICAL TRADE SHALL .3 RESPONSIBILITY AS TO WHICH TRADE PROVIDES REQUIRED ARTICLES OR MATERIALS RESTS SOLELY WITH THE GENERAL REPAIR AND MAKE GOOD SUCH DAMAGE TO THE SATISFACTION OF EACH TRADE CONCERNED AND THE ENGINEER. .4 GROUND FAULT CIRCUIT INTERRUPTING (GFI) DUPLEX RECEPTACLES SHALL BE COMMERCIAL GRADE. CONTRACT TRADE. EXTRAS WILL NOT BE CONSIDERED BASED ON GROUNDS OF DIFFERENCE OF INTERPRETATION OF SPECIFICATIONS AS TO WHICH TRADE INVOLVED SHALL PROVIDE CERTAIN SPECIALTIES OR MATERIALS. .4 ALL PENETRATIONS SHALL BE SEALED WITH APPROVED FIRE STOP MATERIAL. .5 ISOLATED GROUND (IG) RECEPTACLES SHALL BE COMMERCIAL GRADE. .4 THE DRAWINGS AND SPECIFICATIONS FOR THE COMPLETE WORKS, INCLUDING ALL OF THOSE RELATED TO OTHER TRADES SUPPORTS ARE TO BE EXAMINED BEFORE SUBMITTING TENDERS. ALL ELECTRICAL AND COMMUNICATIONS REQUIREMENTS INDICATED .1 THE ELECTRICAL TRADE AND HIS SUB-TRADES ARE TO KEEP THE SITE FREE DURING CONSTRUCTION OF DEBRIS, BOXES, .1 ALL CONDUIT, RACEWAYS, AND OTHER ELECTRICAL EQUIPMENT SHALL BE SECURELY AND ADEQUATELY SUPPORTED, IN ARE TO BE INCLUDED IN THE SCOPE OF THE WORK. PACKING, AND OTHER MATERIALS ASSOCIATED WITH THE WORK OF THIS TRADE. ALL WASTE MATERIAL IS TO BE DISPOSED OF ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE. IN A SAFE AND ENVIRONMENTALLY RESPONSIBLE MANNER. .5 CLEAN UP AND REMOVE ALL UNUSED WIRING AND CONDUITS. .2 WHERE INSERTS ARE REQUIRED IN CONCRETE, EXPANSION INSERTS, LEAD INSERTS OR PLASTIC INSERTS ARE TO BE USED .2 UPON COMPLETION OF WORK, THE ELECTRICAL INSTALLATION SHALL BE LEFT IN A CLEAN AND FINISHED CONDITION TO THE .6 REMOVE AND REINSTALL EXISTING DEVICES TO FACILITATE CONSTRUCTION AS REQUIRED. IN DRILLED HOLES. SHOT DRIVEN PINS MAY BE USED IN STRUCTURAL CONCRETE ONLY WITH THE PERMISSION OF THE SATISFACTION OF THE ENGINEER. .7 CONFIRM OUTLET LOCATIONS AND MOUNTING HEIGHT WITH PROJECT COORDINATOR ON SITE PRIOR TO INSTALLATION. ACCESS DOORS GROUNDING AND BONDING .8 FIRE PROOF ALL FIRE RATED PENETRATIONS AFTER INSTALLATION AS PER SECTION 39. .1 A COMPLETE GROUNDING AND BONDING SYSTEM SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE CANADIAN 1 THE ELECTRICAL TRADE IS TO SUPPLY AND INSTALL ACCESS DOORS AS REQUIRED FOR PROPER SERVICING OF ALL ELECTRICAL WORK. ACCESS DOORS SHALL BE COMPLETE WITH NECESSARY FRAMES AND HINGED DOORS HELD CLOSED WITH .9 COORDINATE WITH AND GET APPROVAL FROM LANDLORD FOR ALL DRILLING, CORING AND CUTTING OF BUILDING STRUCTURE. ELECTRICAL CODE AND THE ELECTRICAL INSPECTION DEPARTMENT. COORDINATE LOCATIONS ON SITE PRIOR TO CARRYING OUT THE WORK. ALLOW FOR ALL COSTS FOR X-RAYING/SCANNING. CAPTIVE STUDS. ACCESS PANEL TO BE OF NOT LESS THAN 14 GAUGE STEEL, PRIME COAT FINISHED AND PAINTED ON THE JOB .2 ALL METAL PARTS NOT CARRYING CURRENT, INCLUDING BUT NOT LIMITED TO, SECONDARY FEEDER CIRCUITS, EQUIPMENT CONTRACTOR MUST OBTAIN WRITTEN APPROVAL FROM THE LANDLORD STRUCTURAL ENGINEER PRIOR TO COMMENCEMENT TO MATCH THE WALL OR CEILING FINISH. AND PANELBOARD ENCLOSURES, METAL RACEWAYS, PULL AND JUNCTION BOXES, SHALL BE PROPERLY GROUNDED. METAL .2 THE NUMBER OF ACCESS DOORS SHALL BE KEPT TO A MINIMUM. RACEWAYS SHALL UTILIZE DOUBLE LOCKNUTS AND OTHER FITTINGS WHERE .10 PROVIDE ALL NECESSARY TEMPORARY POWER AND LIGHTING. NECESSARY TO PROVIDE GROUND CONTINUITY. .3 THE ELECTRICAL TRADE SHALL PROVIDE ACCESS PANELS IN THE DRYWALL CEILINGS FOR ALL ELECTRICAL JUNCTION BOXES 11 WHERE TENANT SPACES ARE OCCUPIED BY THE CLIENT, ALL NOISY WORK SUCH AS (BUT NOT RESTRICTED TO) WIRING AND AND EQUIPMENT IN ACCORDANCE WITH APPLICABLE CODES. A SEPARATE GROUND CONDUCTOR SHALL BE INSTALLED IN ALL RACEWAY FEEDER RUNS, FLEXIBLE CONDUIT, AND IN CONDUIT INSTALLED IN SLAB OR UNDERGROUND. CABLING PULLING, INSTALLATION OF CONDUIT SHALL BE DONE AFTER HOURS. WIRING CONNECTIONS TO SYSTEMS FURNITURE TO BE DONE ON WEEKEND, INCLUDING CABLING TERMINATIONS CODES, PERMITS AND INSPECTION .4 THIS CONTRACTOR IS RESPONSIBLE FOR THE GROUNDING OF ALL THE EQUIPMENT RACKS IN THE SERVER ROOM, THE CABLE .1 THE ENTIRE INSTALLATION, INCLUSIVE OF MATERIAL AND LABOR, IS TO COMPLY WITH ALL THE REQUIREMENTS OF ALL TRAY, ELECTRICAL EQUIPMENT AND ANY CONDUIT. ALL GROUNDING OF SERVER RACKS MUST BE IN ACCORDANCE TO DRAWINGS AND SPECIFICATIONS BUILDING CODES AND AUTHORITIES HAVING JURISDICTION, THE CANADIAN ELECTRICAL CODE, AND REGULATIONS OF THE DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY TO EACH OTHER AND WHAT IS CALLED FOR BY ONE IS TO BE BINDING LOCAL INSPECTION DEPARTMENT. .2 THE ELECTRICAL TRADE IS TO OBTAIN ALL PERMITS REQUIRED FOR EACH STAGE OF WORK, AND AFTER COMPLETION OF THE SHOULD ANY DISCREPANCY APPEAR BETWEEN DRAWINGS AND SPECIFICATIONS THAT LEAVES THE ELECTRICAL TRADE IN ENTIRE INSTALLATION FURNISH TO THE ENGINEER A CERTIFICATE OF FINAL INSPECTION AND APPROVAL FROM THE PROVIDE COMPLETE PANELBOARDS. UNLESS OTHERWISE INDICATED PANELBOARDS ARE TO BE 120/208V, 3PH, 4W OR DOUBT AS TO TRUE INTENT AND MEANING, OBTAIN RULING FROM THE ENGINEER BEFORE SUBMITTING TENDER, OR ALLOW ELECTRICAL INSPECTION DEPARTMENT OF THE LOCAL AUTHORITY. 347/600V, 3Ø, 4W SOLID NEUTRAL DESIGN WITH SEQUENCE STYLE BUSSING AND FULL CAPACITY NEUTRAL WITH BOLT-ON CIRCUIT BREAKERS. WHERE DOUBLE NEUTRALS ARE INDICATED ON THE SINGLE LINE DIAGRAM, PROVIDE 200% RATED FOR THE MOST EXPENSIVE ALTERNATIVE. 14. MECHANICAL EQUIPMENT NEUTRAL PANELBOARDS. EXAMINATION OF OTHER DRAWINGS .1 UNLESS SPECIFIED OTHERWISE. THE ELECTRICAL CONTRACTOR IS TO SUPPLY AND INSTALL ALL REQUIRED CONDUIT, WIRING, .2 PROVIDE ALL CIRCUIT BREAKERS INDICATED PLUS A MINIMUM OF 2x15A 1P SPARES IN EACH PANEL. CIRCUIT BREAKERS TO THE ELECTRICAL CONTRACTOR IS TO EXAMINE CAREFULLY STRUCTURAL, ARCHITECTURAL AND MECHANICAL DRAWINGS, AND ELECTRICAL FITTINGS AND CONNECTIONS FOR ALL MOTORS AND OTHER ELECTRICAL EQUIPMENT, EVEN THOUGH SUCH BE RATED MINIMUM 25kA I.C. UNLESS OTHERWISE INDICATED AND BE SERIES RATED. THE WORK OF OTHER TRADES AND SATISFY HIMSELF THAT THE WORK UNDER THIS CONTRACT CAN BE SATISFACTORILY MOTORS AND OTHER ELECTRICAL EQUIPMENT MAY BE SUPPLIED BY OTHERS. WHERE REQUIRED BY THE DRAWINGS OR .3 PANELS ARE TO BE FLUSH MOUNTED IN PUBLIC AREAS AND SURFACE MOUNTED IN SERVICE ROOMS, ALL COMPLETE WITH CARRIED OUT WITHOUT CHANGES TO THE BUILDING AS SHOWN ON THE PLANS. SHOULD ANY DIFFICULTY ARISE SHOWING APPLICABLE REGULATIONS. DISCONNECT SWITCHES. STARTERS. OVERLOAD RELAYS AND OTHER NECESSARY PROTECTIVE CONFLICT WITH, OR REQUIRING ADDITIONAL WORK BEYOND THE WORK OF THESE DRAWINGS, BRING THIS MATTER TO THE ALL TRIM, LOCKABLE DOORS AND INSTALLATION HARDWARE. PROVIDE DRIP SHIELDS IN AREAS WITH SPRINKLERS. DEVICES ARE TO BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. MOTORS AND CONTROLS SHALL BE FURNISHED BY THE SUPPLIER OF THE DRIVEN EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL INCLUDE ALL WORK AND ATTENTION OF THE ENGINEER BEFORE SUBMITTING TENDER. CONNECTIONS REQUIRED TO MAKE THE SYSTEM COMPLETE AND OPERATIONAL. .4 UPDATED TYPEWRITTEN PANEL DIRECTORIES SHALL BE PROVIDED FOR ALL PANELS. 4. UNIFORMITY OF EQUIPMENT .2 THE ELECTRICAL EQUIPMENT MAY INCLUDE BUT NOT BE LIMITED TO SUCH ITEMS AS GRILLE MOTORS AND INTERLOCKS, .5 UTILIZE EXISTING PANELBOARDS AS INDICATED ON THE DRAWING. REUSE EXISTING BREAKERS WHERE POSSIBLE. PROVIDE UNLESS OTHERWISE SPECIFIED, UNIFORMITY OF MANUFACTURE IS TO BE MAINTAINED FOR ANY PARTICULAR ITEM STOREFRONT AND INTERIOR SIGNAGE, STARTING DEVICES, MOTOR CONTROLLERS, FLOAT SWITCHES, ALARM DEVICES OR NEW BREAKERS AS REQUIRED. SYSTEMS, PUSH BUTTONS, EXHAUST FANS, DATA SYSTEMS, INTERCOMS AND STEREO SYSTEMS. .6 BALANCE PANEL LOAD FOR EACH PHASE A, B, & C. ALLOW FOR RELOCATING CIRCUITS WITHIN PANEL BOARD TO BALANCE STANDARDS OF MATERIAL AND WORKMANSHIP .3 THE ELECTRICAL CONTRACTOR IS TO CONFIRM MOTOR (OR OTHER EQUIPMENT) LOCATION AND SIZES WITH THE TRADE SUPPLYING THE MOTOR (OR OTHER EQUIPMENT) BEFORE COMMENCING ANY ASSOCIATED ELECTRICAL WORK. .1 ALL MATERIALS ARE TO BE NEW AND OF THE QUALITY SPECIFIED, AND SHALL BE APPROVED BY CSA OR EQUIVALENT AGENCY 27. SEISMIC PROTECTION RECOGNIZED IN BRITISH COLUMBIA. .1 THE ELECTRICAL TRADE SHALL PROVIDE SEISMIC RESTRAINT AND ANCHORAGE FOR ALL EQUIPMENT AND SERVICES IN 2 ALL WORK SHALL BE EXECUTED IN A NEAT AND WORKMANLIKE MANNER BY QUALIFIED TRADESMEN. THE ELECTRICAL .1 ALL PORTIONS OF ELECTRICAL WORK ARE TO BE TESTED FOR SATISFACTORY OPERATION. ACCORDANCE WITH THE CURRENT EDITION OF THE B.C. BUILDING CODE, AND ALL APPLICABLE BUILDING BYLAWS. CONTRACTOR SHALL KEEP A COMPETENT FOREMAN AND NECESSARY ASSISTANTS ON THE SITE DURING THE PROGRESS OF .2 BEFORE ENERGIZING ANY PORTION OF THE ELECTRICAL SYSTEM, THE ELECTRICAL TRADE SHALL PERFORM MEGGER TESTS .2 IF REQUESTED PROVIDE CERTIFIED PROFESSIONALLY SEALED SHOP AND PLACEMENT DRAWINGS WHERE APPLICABLE FOR ON ALL FEEDERS AND BRANCH CIRCUITS. ANY PROBLEMS DISCOVERED BY SUCH TESTING ARE TO BE CORRECTED BY THE ALL ELECTRICAL EQUIPMENT AND EQUIPMENT ASSEMBLIES SHOWING THE METHODS OF ATTACHMENT TO THE PARTICULAR .3 ALL MATERIAL AND INSTALLATION SHALL MATCH BUILDING STANDARD UNLESS IT IS NOTED OTHERWISE ON THE DRAWINGS. ELECTRICAL TRADE AND THE CIRCUITS IN QUESTION RETESTED. THE RESULTS OF ALL FINAL TESTING SHALL BE PROVIDED TO STRUCTURE FOR EACH PIECE OF EQUIPMENT AND ASSEMBLY AND PROVIDE ANCHORAGE/ATTACHMENT DETAILS APPROVED AND SEALED BY A B.C. REGISTERED PROFESSIONAL ENGINEER. THE ENGINEER IN REPORT FORM. 6. RECORD PLANS & MAINTENANCE MANUALS .3 UPON PROJECT COMPLETION, AND IMMEDIATELY PRIOR TO FINAL INSPECTION AND TAKEOVER, THE ELECTRICAL TRADE SHALL INCLUDE IN THE TENDERED PRICE ALL SERVICES OF A PROFESSIONAL ENGINEER INCLUDING BUT NOT LIMITED TO PROVIDING .1 THE ENGINEER WILL FURNISH TO THE ELECTRICAL TRADE ONE SET OF DRAWINGS TO BE USED FOR RECORD PURPOSES. THE LETTERS OF ASSURANCE FOR THE PROJECT IN RESPECT OF THE SEISMIC RESTRAINT OF ALL ELECTRICAL MATERIALS AND CHECK THE LOAD BALANCE ON ALL FEEDERS AND AT DISTRIBUTION CENTRES, LOAD CENTRES, AND PANELS. THESE CHECKS ELECTRICAL TRADE IS TO ACCURATELY RECORD ON THESE PRINTS ALL REVISIONS TO THE ORIGINAL PLANS THAT ARE MADE ARE TO BE CARRIED OUT BY TURNING ON ALL LOADS AND CHECKING LOAD CURRENT BALANCE. IF LOAD UNBALANCE EXCEEDS EQUIPMENT, CONDUCTING THE NECESSARY SITE REVIEWS AND PROVIDING A LETTER AT THE CONCLUSION OF THE PROJECT, CONFIRMING THAT ALL SEISMIC RESTRAINTS FOR THE ELECTRICAL WORKS HAVE BEEN INSTALLED IN ACCORDANCE WITH THE ON SITE DURING CONSTRUCTION. 15 %, THE CIRCUITS ARE TO BE RECONFIGURED AS NECESSARY TO BALANCE THE LOADS. ENGINEER'S INSTRUCTIONS. PAY ALL ASSOCIATED FEES AS REQUIRED. APPROVED SEISMIC ENGINEERS ARE LEON BELL OF .2 THE ELECTRICAL TRADE IS TO PRODUCE AT HIS OWN EXPENSE A SET OF RED LINE MARK-UP DRAWINGS, INCLUDING ALL BELL ENGINEERING, CLINT LOW OF BBP, AND AMIR MOHSENI OF PARADIGM ENGINEERING INC. SEISMIC ENGINEER SHALL CHANGES TO THE ORIGINAL TENDER DRAWINGS COVERED BY ADDENDA, CHANGE ORDERS, FIELD CHANGES, AND JOB PAINTING AND FINISHES PROVIDE PROOF OF INSURANCE AND CREDENTIALS IF REQUESTED. CONDITIONS, AND TURN THESE OVER TO THE ENGINEER IN HARD COPY FORM. COMPLETED RECORD DRAWINGS ARE TO BE .1 ALL ELECTRICAL FITTINGS, SUPPORTS, HANGER RODS, PULLBOXES, CHANNEL FRAMES, CONDUIT RACKS, OUTLET BOXES, CLEARLY MARKED "RECORD DRAWINGS". REFER TO LINE ITEM 3. 28. IDENTIFICATION BRACKETS, AND CLAMPS ARE TO HAVE A GALVANIZED FINISH OR A PAINT FINISH OVER CORROSION-RESISTANT PRIMER. .3 THIS CONTRACTOR SHALL ALLOW FOR A COST OF \$350 PER DRAWING FOR TRANSFERRING RED LINE MARK-UPS TO IDENTIFY ALL MAJOR PIECES OF EQUIPMENT, INCLUDING BUT NOT LIMITED TO PANELBOARDS, ELECTRICAL CABINETS, AND ELECTRONIC AUTOCAD RECORD DRAWINGS AND THIS AMOUNT SHALL INCLUDED IN THE TENDER BID. CONTRACTOR MAY HIRE .2 ALL PANELS ARE TO BE FACTORY-FINISHED WITH SPRAY-ON AIR DRY ENAMEL. ALL ENAMEL TO BE APPLIED OVER BREAKERS IN PANELBOARDS WITH ENGRAVED LAMACOID LABELS, BLACK LETTERING ON WHITE BACKGROUND. CORROSION-RESISTANT PRIMER. MATTE OR FLAT TYPE FINISH PAINT WILL NOT BE ACCEPTED. ALL PANELS OR SIMILAR AES TO PRODUCE THE RECORD CAD DRAWINGS IF DESIRED. FACTORY-FINISHED UNITS THAT ARE SCRATCHED OR MARKED DURING INSTALLATION ARE TO BE TOUCHED UP WITH MATCHING .2 PROVIDE TYPEWRITTEN DIRECTORIES IN ALL PANELS. .4 THIS CONTRACTOR SHALL PROVIDE 3 THREE-RING BINDERS FOR MAINTENANCE MANUALS. MANUALS SHALL CONTAIN ALL SPRAY-ON AIR DRY LACQUER AND, IF REQUIRED TO PROVIDE A SATISFACTORY JOB, TO BE COMPLETELY REFINISHED. PROVIDE LAMACOID NAMEPLATE ON EACH PANEL COVER TO IDENTIFY PANEL NAME, NUMBER OF PHASES, VOLTAGE, CURRENT WARRANTIES, SHOP DRAWINGS, INSPECTION LETTERS, PANEL SCHEDULES, ETC. .3 ALL 120/208 V PANELBOARDS, PULLBOXES, AND OTHER ELECTRICAL CABINETS AND BOXES ARE TO BE FINISHED IN GRAY RATING AND SOURCE OF FEEDER. SHOP DRAWINGS .4 IDENTIFY BRANCH CIRCUIT WIRES TO MEET CODE REQUIREMENTS. .1 THE ELECTRICAL CONTRACTOR IS TO SUBMIT TO THE ENGINEER, FOR REVIEW, SHOP DRAWINGS OF MAJOR ELECTRICAL 17. EMT CONDUIT EQUIPMENT. SUCH EQUIPMENT SHALL INCLUDE, BUT NOT BE LIMITED TO SWITCHGEAR, PANELBOARDS, SERIES-RATED .5 FIRE ALARM BREAKER TO BE PAINTED RED AND CLEARLY IDENTIFIED. .1 WHERE REQUIRED BY THE CANADIAN ELECTRICAL CODE, ALL WIRE AND CABLE IS TO BE INSTALLED IN EMT CONDUIT. BREAKER COMBINATIONS, FIXTURES AND FITTINGS NOT PROVIDED BY THE OWNER. .2 ALL DRAWINGS ARE TO BE SUBMITTED IN TRIPLICATE AND TWO COPIES WILL BE RETURNED TO THE ELECTRICAL TRADE. .2 UNLESS OTHERWISE NOTED, EMT CONDUIT ARE TO BE CONCEALED IN ALL FINISHED AREAS. IN SERVICE AREAS, CONDUIT AND .1 ALL REQUESTS FOR ALTERNATES SHALL BE SUBMITTED TO THE ENGINEER NOT LESS THEN 5 DAYS PRIOR TO THE CLOSE OF EMT SHALL BE RUN ON SURFACE UNLESS INDICATED OTHERWISE. SUBMIT ADDITIONAL COPIES FOR APPROVAL AS MAY BE REQUIRED. .3 THE ENGINEER'S REVIEW OF SHOP DRAWINGS IS TO BE FOR GENERAL DESIGN ONLY AND WILL NOT RELIEVE THE ELECTRICAL .3 SURFACE MOUNTED EMT CONDUIT ARE TO BE INSTALLED PARALLEL TO STRUCTURAL LINES, AND, WHERE BENDS OCCUR IN .2 THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ENSURING THAT ALTERNATE PRODUCTS MEET ALL SPACE, TRADE OR SUPPLIERS FROM RESPONSIBILITY FOR ERRORS, PROPER FITTING, CONSTRUCTION OF WORK, AND FURNISHING OF PARALLEL RUNS, THEY SHALL BE CONCENTRIC. MATERIALS. REVIEW WILL NOT BE CONSTRUED AS APPROVING DEPARTURES FROM CONTRACT DOCUMENT REQUIREMENTS IF WEIGHT, CONNECTION, POWER, WIRING, AND PERFORMANCE REQUIREMENTS. .4 RACEWAYS ARE TO BE INSTALLED FREE FROM DENTS AND BRUISES AND SHALL HAVE THEIR ENDS CAPPED, PLUGGED, OR SUCH DEPARTURES ARE NOT SPECIFICALLY NOTED. THE ELECTRICAL TRADE IS RESPONSIBLE FOR VERIFYING ALL POWER DISTRIBUTION SEALED AS NECESSARY TO PREVENT ENTRANCE OF DIRT OR MOISTURE. .1 INSTALL A COMPLETE POWER DISTRIBUTION SYSTEM INCLUDING UNDERSLAB CONDUIT, SERVICE CONNECTIONS, GROUNDING, .4 DEVIATIONS FROM THE SPECIFIED LUMINAIRE AND CONTROL PACKAGE WILL REQUIRE ASHRAE 90.1-2010 COMPLIANCE FORMS .5 IN ALL AREAS SUBJECT TO MOISTURE, WATERTIGHT FITTINGS MUST BE USED. TO BE REVISED AND RESUBMITTED TO THE AUTHORITY HAVING JURISDICTION BY THE ELECTRICAL ENGINEER OF RECORD FOR DISTRIBUTION EQUIPMENT, AND PANELBOARDS. THE PROJECT. THE COST OF REVISING AND RESUBMITTING THESE FORMS WILL BE AT THE EXPENSE OF THE CONTRACTOR. .6 ALL RACEWAY, EXCEPT WHERE OTHERWISE INDICATED, SHALL BE SIZED IN ACCORDANCE WITH THE CANADIAN ELECTRICAL ALLOW FOR THE FOLLOWING TO BE PAYABLE TO THE ELECTRICAL CONSULTANT, FOR THE WORK TO BE COMPLETED: - \$5,000 PER ALTERNATE PACKAGE SUBMISSION TO REVIEW AND ENSURE ENERGY AND CONTROL TARGETS ARE NOT DEVIATED .7 TECK90 OR SEAL TIGHT FLEXIBLE CONDUIT IS BE UTILIZED FOR CONNECTIONS TO MOTORS AND MOTOR CONTROLLERS. 1 AFTER INSTALLATION OF THE ELECTRICAL, ALL PENETRATIONS OF FIRE ZONES FOR CONDUITS, SLEEVES, CABLE TRAYS, - \$8,000 TO COMPLETE THE COMPLIANCE FORMS WITH THE ACCEPTED ALTERNATE LUMINAIRES/CONTROL PACKAGE. .8 ALL UNDERGROUND CONDUIT SYSTEMS ARE TO BE OF APPROVED RPVC SCHEDULE 40 CONDUIT, COMPLETE WITH INSTALLED POKETHRU'S ETC. SHALL BE SEALED USING MATERIAL AND METHODS THAT MEET THE REQUIREMENTS OF ULC STANDARDS CAN/ULC-S115 AND INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. THE FIRE STOP MATERIAL SHALL ALLOW BONDING CONDUCTOR, AND INSTALLED AT OR BELOW THE DEPTH REQUIRED BY CODE. PROVIDE 150mm CLEAN SAND BEDDING GUARANTEE WARRANTY FOR RE-ENTERABLE ACCESS. CSA T530 APPENDIX B SHALL BE USED AS A GUIDE. BEFORE INSTALLATION, CONTRACTOR SHALL ABOVE AND 75mm BELOW CONDUITS AND CONTINUOUS MARKING TAPE 300mm BELOW GRADE. PROVIDE SUITABLE BACKFILL AND COMPACTION. IDENTIFY A FIRE STOPPING SYSTEM SUITABLE FOR THE INSTALLATION. CONTRACTOR SHALL OBTAIN SHOP DRAWINGS OF THE .1 THE ELECTRICAL TRADE SHALL FURNISH A WRITTEN GUARANTEE WARRANTY, SIGNED BY AUTHORIZED PERSONNEL, STATING: FIRE STOP SYSTEM FROM MANUFACTURER AND SHOULD ON SITE, UPON REQUEST, BE ABLE TO PRODUCE FIRE STOP SHOP .1 THAT ALL WORK EXECUTED UNDER THIS CONTRACT WILL BE FREE FROM DEFECTS OF MATERIAL AND WORKMANSHIP FOR 18. EXPANSION JOINTS DRAWINGS FOR CONSULTANT. ALLOW FOR 2% DESTRUCTIVE TESTING OF THE FIRE STOPPING INSTALLATION. A PERIOD OF 1 YEAR FROM DATE OF FINAL ACCEPTANCE. .1 WHERE CONDUITS ARE INSTALLED IN CONCRETE SLABS OR CROSS STRUCTURAL EXPANSION JOINTS, AN APPROVED .2 LABEL FIRE STOP PENETRATIONS WITH PRODUCT USED AND CUL SYSTEM NUMBER WITH STICKER. .2 THE ABOVE PARTIES FURTHER AGREE TO, AT THEIR OWN EXPENSE, REPAIR AND REPLACE ALL SUCH DEFECTIVE WORK, AND OTHER WORK DAMAGED THEREBY. WHICH FAILS OR BECOMES DEFECTIVE DURING THE TERM OF THE GUARANTEE EXPANSION FITTING SHALL BE INSTALLED. WARRANTY PROVIDED THAT SUCH FAILURE IS NOT DUE TO IMPROPER USAGE. WIRE AND CABLE .3 THE PERIOD OF THE GUARANTEE SPECIFIED WILL IN NO WAY SUPPLANT ANY OTHER GUARANTEE OF A LONGER PERIOD BUT BE BINDING ON WORK NOT OTHERWISE COVERED. .1 ALL BUILDING WIRING IS TO BE RW90, 600V, COPPER, EXCEPT WHERE NOTED OTHERWISE. SETTING OUT OF THE WORK .2 A MINIMUM CONDUCTOR SIZE OF #12 AWG COPPER IS TO BE USED, EXCEPT WHERE NOTED OTHERWISE. THE ELECTRICAL TRADE IS RESPONSIBLE FOR CORRECTING ALL WORK COMPLETED CONTRARY TO THE INTENT OF DRAWINGS .3 ALL CONDUCTORS ARE TO BE COLOR CODED THROUGHOUT THE INSTALLATION AS FOLLOWS: AND SPECIFICATIONS AND SHALL BEAR ALL COSTS INVOLVED IN MAKING THE CORRECTIONS. WHERE INTENT OF DRAWINGS EQUIPMENT GROUNDING CONDUCTOR - GREEN AND SPECIFICATIONS IS NOT CLEAR, OBTAIN CLARIFICATION FROM THE ENGINEER BEFORE PROCEEDING WITH WORK. NEUTRAL CONDUCTOR - WHITE 2 THE ELECTRICAL TRADE IS TO GIVE WORK HIS PERSONAL SUPERVISION, LAY OUT HIS OWN WORK, DO ALL NECESSARY 120/208V PHASE WIRES - RED, BLACK, AND BLUE 347/600V PHASE WIRES - RED, BLACK, AND BLUE LEVELING AND MEASURING OR EMPLOY A COMPETENT ENGINEER TO DO SO. FIGURES, FULL SIZE AND DETAIL DRAWINGS TO TAKE PRECEDENCE OVER SCALE MEASUREMENTS. .4 ALL WIRING AND CABLING IN EXPOSED OR OPEN CEILING AREAS IS TO BE INSTALLED IN EMT CONDUIT. .3 THE ELECTRICAL TRADE SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE OWNER OR ANY OTHER TRADE BY IMPROPER LOCATION OR CARRYING OUT OF HIS WORK. WIRING DEVICES & BOXES .4 THE ELECTRICAL TRADE, IN THE SETTING OUT OF HIS WORK, IS TO MAKE REFERENCE TO ARCHITECTURAL, STRUCTURAL, AND .1 ALIGN ALL DEVICES AND PLATES PLUMB AND LEVEL WITH BUILDING STRUCTURAL LINES. MECHANICAL DRAWINGS. HE SHALL CONSULT WITH ALL RELEVANT TRADES IN SETTING OUT LOCATIONS FOR CONDUIT RUNS, LIGHTING FIXTURES, PANEL ASSEMBLIES, AND ALL OTHER ELECTRICAL EQUIPMENT, SO THAT CONFLICTS ARE AVOIDED AND .2 ALL OUTLET BOXES ARE TO BE FLUSH MOUNTED EXCEPT WHERE SPECIFIED OTHERWISE. SYMMETRICAL SPACING IS MAINTAINED. .3 ALL JUNCTION BOXES ARE TO HAVE VISIBLE P-TOUCH LABELS INDICATING THE CIRCUIT NUMBERS UTILIZED; PEN OR FELT IS .5 THE ELECTRICAL TRADE SHALL CONFIRM OUTLET LOCATIONS AND MOUNTING HEIGHTS WITH THE PROJECT COORDINATOR ON NOT ACCEPTABLE. SITE PRIOR TO INSTALLATION. .4 SUPPLY AND INSTALL BLANK COVER PLATES FOR ALL UNUSED JUNCTION BOXES, INCLUDING EXISTING. 6 WHERE RECEPTACLES ARE MOUNTED ABOVE COUNTERS, BENCHES, SPLASHBACKS, OR OTHER FIXTURES, THEIR LOCATIONS AND MOUNTING HEIGHTS ARE TO BE COORDINATED WITH THE BUILT-IN UNITS. REFER TO ARCHITECTURAL DETAILS. WHERE 21. LOCATION OF OUTLETS RECEPTACLES OCCUR IN OUTSIDE WALLS WHERE HEATING UNITS ALSO OCCUR. RECEPTACLE HEIGHT TO BE ADJUSTED TO COORDINATE WITH THE HEATING UNITS. .1 THE ENGINEER RESERVES THE RIGHT TO CHANGE THE LOCATION OF OUTLETS TO WITHIN 3 M OF POINTS INDICATED ON PLANS WITHOUT EXTRA CHARGE, PROVIDED THE ELECTRICAL CONTRACTOR IS ADVISED BEFORE INSTALLATION IS MADE. SWITCH MOUNTING HEIGHTS ARE TO BE COORDINATED WITH ARCHITECTURAL DETAILS AND SHALL BE ADJUSTED, IF REQUIRED, TO COORDINATE WITH PANELING, DADOS, MASONRY COURSE LINES, OR OTHER RELEVANT BUILDING FEATURES.

ELECTRICAL TRADE TO REFER TO ARCHITECTURAL ROOM ELEVATIONS FOR POSITIONS, AND MOUNTING HEIGHTS OF ALL

1 THE ELECTRICAL TRADE SHALL SUPPLY AND INSTALL PULLBOXES AS REQUIRED TO SUIT JOB CONDITIONS. PULLBOXES SHALL

CORROSION-RESISTANT PRIMER WITH SCREW-ON OR HINGED COVER. IN REMOVABLE CEILING AREAS, PULLBOXES ARE TO BE

OUTLETS, SWITCHES, INTERCOMMUNICATION, TELEPHONES, SPEAKERS, CLOCKS, ETC. POSITIONS SHOWN ON ARCHITECTURAL PLANS TO TAKE PRECEDENCE OVER POSITIONS OR MOUNTING HEIGHTS SHOWN ON ELECTRICAL PLANS.

CONFORM TO CANADIAN ELECTRICAL CODE REQUIREMENTS. PULLBOXES TO BE BE FINISHED IN ENAMEL OVER

22. PULL BOXES

INSTALLED ABOVE THE CEILING.

.8 WHERE OUTLET BOXES OCCUR IN EXTERIOR WALLS, THE ELECTRICAL TRADE IS TO ENSURE THAT THERE IS INSULATION

.10 CONTRACTOR TO COORDINATE ANY INTERRUPTIONS TO ADJOINING TENANTS IN ORDER TO AVOID ANY INCONVENIENCES TO

BEHIND THE OUTLET BOXES TO PREVENT CONDENSATION THROUGH THE BOXES.

.9 ALLOW FOR WORK AFTER HOURS AS REQUIRED AND COORDINATE WITH OWNER/TENANTS IF APPLICABLE.

SAID TENANT. IF NECESSARY CONTRACTOR TO DO ANY REQUIRED CONNECTIONS ON OFF HOURS

drawing and design is the property of the designer to be used on or the project named below. This page or any portion thereof sho only be reproduced with express written permission. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ALL ERRORS AND OMISSIONS TO THE CONSULTANT PRIOR TO

COMMENCING THE WORK. THESE DRAWINGS ARE NOT TO BE SCALED. EV. DATE DESCRIPTION 2018.03.13 | ISSUED FOR REQUEST FOR QUOTATION

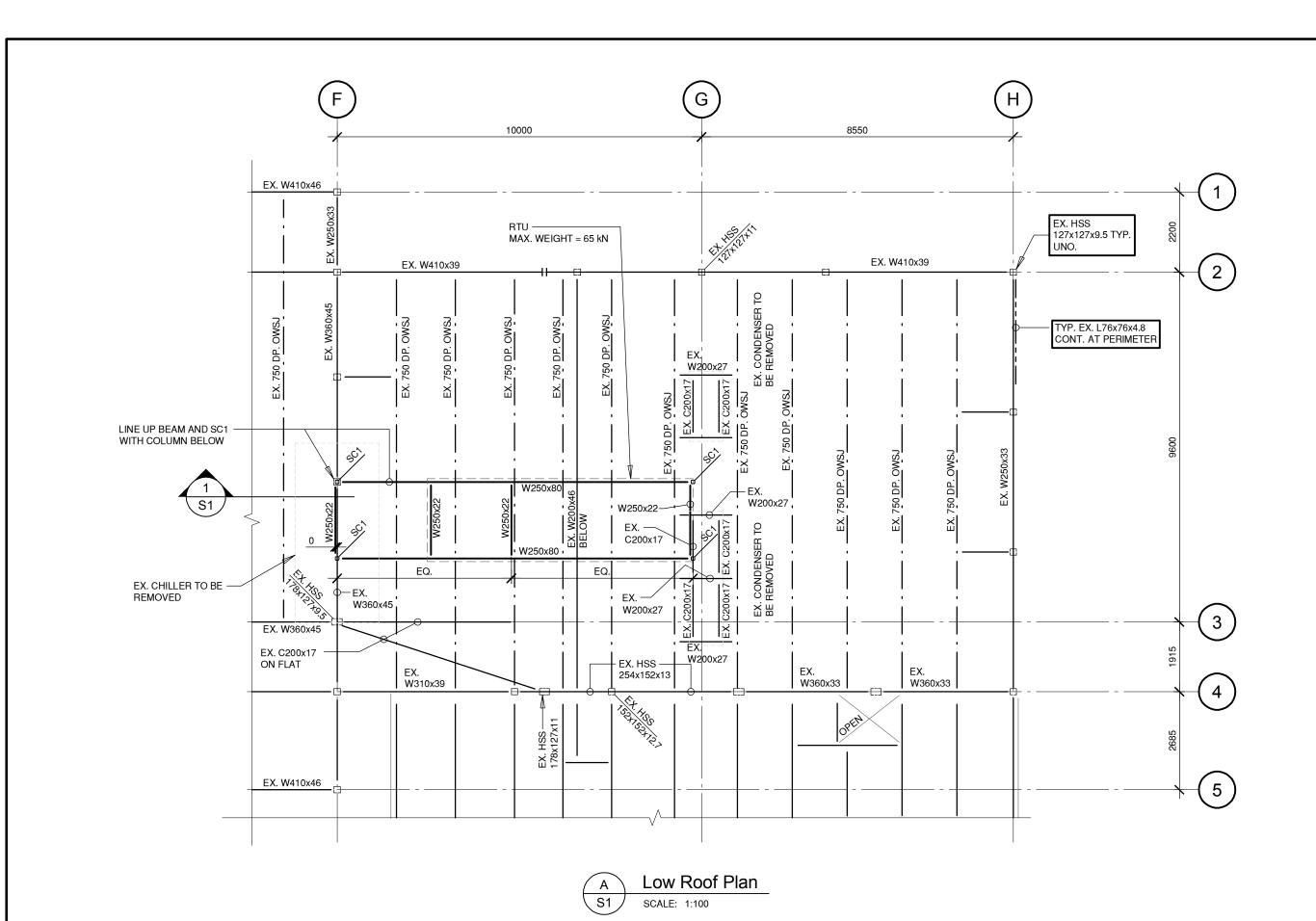
CONSULTANT:



GUILDFORD CHILLER REPLACEMEN

15105 105 AVENUE SURREY, BC, CANADA

AS NOTED MARCH 2018



Steel Col	umn Schedule
MARK	SIZE
SC1	HSS 102 x 102 x 6.4

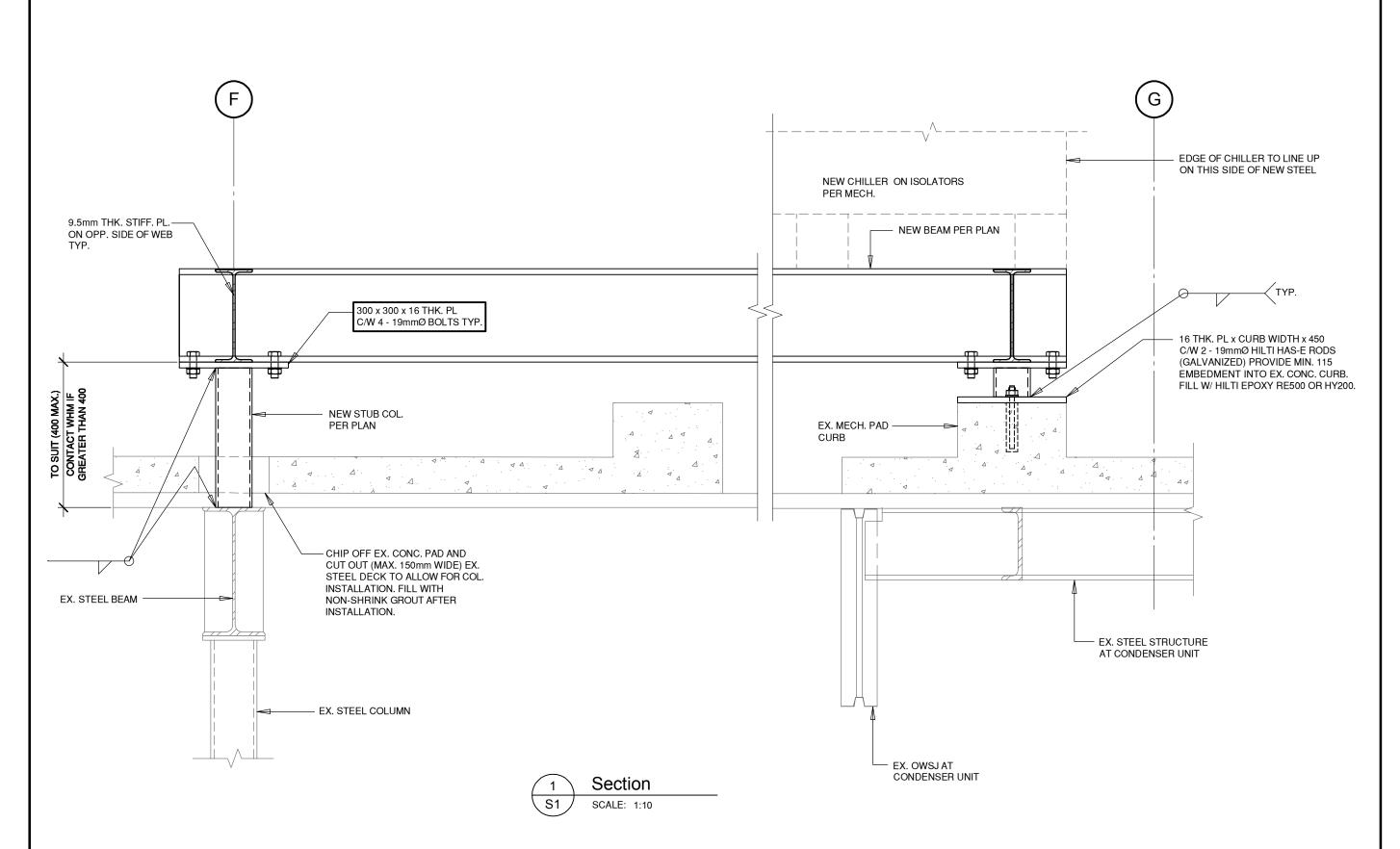
Plan Notes

DIMENSIONS AND ELEVATIONS:

 CONTRACTOR TO THOROUGHLY REVIEW ALL DIMENSIONS AND ELEVATIONS SHOWN ON THIS DWG, COMPARE THEM WITH ACTUAL CONDITIONS AND REPORT ANY DISCREPANCIES TO WHM IMMEDIATELY. "MAX" OR "MIN" INDICATES STRUCTURAL REQUIREMENTS

EXISTING CONDITIONS:

- CONTRACTOR TO SITE VERIFY ALL EXISTING STRUCTURE NOTED ON PLAN AND REPORT TO WHM. IF DIFFERENT, PRIOR TO CONSTRUCTION.
- WHERE EXISTING STRUCTURE IS NOT NOTED ON PLAN, CONTRACTOR TO SITE CONFIRM AND REPORT ALL EXISTING STRUCTURE IN THE VICINITY OF NEW WORK TO WHM PRIOR TO CONSTRUCTION.



Drawing List

GENERAL NOTES, PLANS AND DETAILS

DRAWING USAGE NOTES:

DO NOT BUILD FROM THESE DRAWINGS UNLESS THEY ARE MARKED AS "ISSUED FOR CONSTRUCTION" IN THE ISSUES COLUMN IN THE TITLE BLOCK.

DO NOT SCALE FROM ANY OF THE ABOVE NOTED DRAWINGS ALL OF THE ABOVE NOTED DRAWINGS ARE TO BE READ IN CONJUNCTION WITH EACH OTHER TO ASCERTAIN THE FULL EXTENT OF THE STRUCTURAL REQUIREMENTS. INFORMATION CONTAINED IN THE GENERAL NOTES SHOWS MINIMUM STRUCTURAL

REQUIREMENTS AND SHALL ALWAYS APPLY UNLESS NOTED OTHERWISE ON THE PLANS, DETAILS, ELEVATIONS OR SCHEDULES.

Abbreviations

GENERAL / NON MATERIAL SPECIFIC

GENERAL	<u>/ N</u> (ON MATERIAL SPECIFIC			
CONT C/W DIA OR Ø DP EA EQ EX GALV MAX. MECH MIN.		CONTINUOUS COMPLETE WITH DIAMETER DEEP EACH EQUAL EXISTING GALVANIZED MAXIMUM MECHANICAL DRAWINGS MINIMUM	O/C OPNG OPP RTU THK. TYP UNO VERT. W/ WHM	-	ON CENTRE OPENING OPPOSITE ROOF TOP UNIT THICK TYPICAL UNLESS NOTED OTHERWISE VERTICAL WITH WICKE HERFST MAVER CONSULTING INC
JILLL					

1. General Requirements

OPEN WEB STEEL JOIST

PLATE

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ALL STRUCTURAL DOCUMENTS, WHICH INCLUDE NOTES, PLANS, SPECIFICATIONS AND DETAILS. SHALL BE READ AS ONE DOCUMENT. FURTHER, THESE DOCUMENTS SHALL BE READ IN CONJUNCTION WITH ALL APPLICABLE DRAWINGS FROM OTHER DISCIPLINES. ANY DISCREPANCIES BETWEEN THE STRUCTURAL DOCUMENTS AND THOSE OF OTHER

STIFF

TOS

STIFFENER

TOP OF STEEL

DISCIPLINES SHALL BE BROUGHT TO WHM'S ATTENTION IMMEDIATELY FOR INTERPRETATION AND/OR CORRECTION. THE TERM 'CONTRACTOR' SHALL INCLUDE ANY OR ALL PARTIES RESPONSIBLE FOR THE

CONSTRUCTION OF THE WORK. THESE DRAWINGS SHOW THE DESIGN INTENT FOR THE COMPLETED STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR ANY TEMPORARY WORKS NECESSARY FOR THE COMPLETION OF CONSTRUCTION, THE MAINTENANCE OF STRUCTURAL STABILITY DURING CONSTRUCTION AND FOR ALL SAFETY CONSIDERATIONS IN AND AROUND THE CONSTRUCTION SITE. TEMPORARY WORKS SHALL BE DESIGNED TO CAN/CSA 269.1 BY A

SPECIALTY ENGINEER RETAINED BY THE CONTRACTOR. PROPOSED SUBSTITUTIONS AND/OR REVISIONS TO ANY SPECIFIED MATERIAL OR FRAMING ASSEMBLY SHALL BE SUBMITTED TO WHM FOR REVIEW AND ACCEPTANCE PRIOR TO

BIDDING. 2. CODES:

STRUCTURAL MATERIALS AND ASSEMBLIES SPECIFIED ON THESE DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH PART 4 OF THE BRITISH COLUMBIA BUILDING CODE 2012 HEREINAFTER REFERRED TO AS 'THE CODE'.

3. PROJECT SCOPE:

INVOLVES REPLACING THE OLD CHILLER (MECH EQUIPMENT) AT THE LOW ROOF STRUCTURE WITH A NEW, BIGGER AND HEAVIER CHILLER. AS A CONSEQUENCE, A NEW

SUPPORTING STRUCTURE IS REQUIRED TO ACCOMMODATE THE NEW CHILLER THE RENOVATIONS AND ADDITIONS TO THE EXISTING STRUCTURE WILL NOT ADVERSELY

EFFECT THE EXISTING GRAVITY OR LATERAL LOAD RESISTING CAPACITY. WHM IS RESPONSIBLE FOR THE STRUCTURAL RENOVATION AND ADDITION ONLY AND NOT

4. DESIGN PARAMETERS:

PER MECH. ENGINEER, NEW CHILLER IS TRANE RTAE150 WITH OPERATING WEIGHT OF

FOR ANY OF THE PRE-EXISTING CONDITIONS OF THE EXISTING STRUCTURE.

SNOW LOAD PER ORIGINAL STRUCTURAL RECORD DRAWINGS (DEC 2001) SHOWN IN S.07. THESE STRUCTURAL DRAWINGS ARE BASED ON MECHANICAL DRAWINGS BY **AME GROUP**

CONSULTING MECHANICAL ENGINEERS. THESE STRUCTURAL DRAWINGS ARE ALSO BASED ON THE STRUCTURAL RECORD

DRAWINGS BY POMEROY ENGINEERING LTD. DATED DEC. 2001.

5. CONTRACTOR'S SUBMITTALS:

WHM WILL REVIEW SUBMITTALS (WHICH INCLUDE SHOP DRAWINGS) TO THE EXTENT DEEMED NECESSARY BY WHM TO ASCERTAIN GENERAL CONFORMANCE TO THE DESIGN INTENT OF THE STRUCTURE AND/OR AS REQUIRED BY THE BUILDING AUTHORITY HAVING JURISDICTION.

SHOP DRAWINGS AND CALCULATIONS FOR ANY STRUCTURAL COMPONENT FOR WHICH DESIGN RESPONSIBILITY IS DELEGATED TO THE CONTRACTOR SHALL BE SEALED AND SIGNED, BY A PROFESSIONAL ENGINEER REGISTERED IN JURISDICTION OF THE PROJECT.

6. FIELD REVIEW BY WHM:

WHM IS RESPONSIBLE FOR UNDERTAKING FIELD REVIEWS OF STRUCTURAL COMPONENTS AND ASSEMBLIES CONSTITUTING THE STRUCTURAL COMPONENT OF THIS PROJECT. THE CONTRACTOR SHALL ARRANGE ADEQUATE OPPORTUNITY FOR WHM TO UNDERTAKE FIELD REVIEWS (AT LEAST 48 HOURS NOTICE IN ADVANCE). ALL STRUCTURAL COMPONENTS AND ASSEMBLIES IN THESE DRAWINGS SHALL REMAIN UNCONCEALED AND VISIBLE UNTIL EITHER REVIEWED IN THE FIELD BY WHM AND TO WHM'S SATISFACTION, OR OTHERWISE PERMITTED BY WHM. WHM MAY REQUIRE ANY CONCEALMENT OR OBSTRUCTIONS TO BE REMOVED AS REQUIRED TO FACILITATE FIELD REVIEW. CONSEQUENT REPAIR COST WILL BE THE CONTRACTOR'S RESPONSIBILITY.

7. BUILDING ENVELOPE AND OTHER WATERPROOFING:

WHM DOES NOT OFFER ANY SERVICES, NOR HOLDS ITSELF OUT AS BEING QUALIFIED IN ANY WAY WHATSOEVER, IN THIS FIELD OF WORK. WHM WILL NOT ACCEPT ANY LIABILITY FOR ANY ISSUES IN RELATION TO WATERPROOFING, WATER INGRESS, MOISTURE CONTROL, DRAINAGE, MOULD, MILDEW, FUNGUS, ETC.

THE OWNER IS ADVISED TO RETAIN A COMPETENT AND WELL-INSURED PROFESSIONAL IN THIS FIELD OF WORK TO PROVIDE WHATEVER ADVICE THEY MAY REQUIRE.

2. Existing Conditions

PRIOR TO FABRICATION OF ANY STRUCTURAL MEMBERS, THE CONTRACTOR SHALL COMPLETE A SITE REVIEW OF CRITICAL "TIE-IN" DIMENSIONS AND CONFIRM ALL DIMENSIONS TO ENSURE PROPER FIT OF NEW WORK TO EXISTING. REPORT ANY DISCREPANCIES TO WHM PRIOR TO STARTING WORK.

DUE TO ACTUAL SITE CONDITIONS, MINOR MODIFICATIONS TO THE WORK INDICATED ON THESE DRAWINGS MAY BE REQUIRED.

THE CONTRACTOR SHALL ENSURE THAT SERVICES ARE NOT DAMAGED THROUGH DEMOLITION, EXCAVATION, SAWCUTTING, HOLE AUGURING, OR OTHER CONSTRUCTION

2. OPENINGS:

CORING OR CUTTING OF OPENINGS OR HOLES SHOWN ON THE STRUCTURAL DRAWINGS THROUGH THE EXISTING STRUCTURE SHALL NOT CUT ANY REINFORCING BARS. THE CONTRACTOR SHALL LOCATE THE POSITION OF EXISTING REINFORCING BARS IN THE VICINITY OF THE OPENINGS OR HOLES SHALL BE LOCATED TO AVOID CUTTING REINFORCING BARS. WHERE THIS IS NOT POSSIBLE, IT SHALL BE REPORTED TO WHM FOR

3. NEW / EXISTING INTERFACES:

AT ALL LOCATIONS WHERE NEW CONCRETE (OR GROUT) WILL BE IN CONTACT WITH EXISTING CONCRETE SURFACES, THE EXISTING CONCRETE SURFACE SHALL BE ROUGHENED BY HYDRODEMOLITION OR BUSH-HAMMERING TO AN AMPLITUDE OF 6 mm (1/4"), THEN SCOURED CLEAN USING HIGH-PRESSURE COMPRESSED AIR. THE EXISTING CONCRETE SHALL BE SATURATED SURFACE DRY (SSD) JUST PRIOR TO CASTING NEW CONCRETE AGAINST IT.

3. Concrete

1. MATERIALS - PRE-DRILLED (ADHESIVE) ANCHORS:

HILTI CANADA CORP IS THE ONLY PRE-APPROVED SUPPLIER OF PRE-DRILLED ANCHORS. ALL ON-SITE PERSONNEL INSTALLING PRE-DRILLED ANCHORS SHALL HAVE OBTAINED A CERTIFICATE FOR HILTI'S ACCREDITED INSTALLER PROGRAM. THE CONTRACTOR SHALL PROVIDE THESE CERTIFICATES TO WHM PRIOR TO INSTALLING ANY PRE-DRILLED

ALTERNATE SUPPLIERS PROPOSED BY THE CONTRACTOR WILL NOT BE ACCEPTED. ANCHORS SHALL BE CARBON STEEL ANCHORS WITH A HOT-DIP GALVANIZED COATING. NUTS, AND WASHERS SHALL ALSO BE HOT-DIPPED GALVANIZED, SINCE ALL OF THEM WILL

BE EXPOSED TO MOISTURE. STAINLESS STEEL ANCHORS ARE NOT PERMITTED. ADHESIVE ANCHORS CONSIST OF AN ANCHOR ROD AND AN ADHESIVE INSTALLED INTO SOLID CONCRETE SUBSTRATE IN STRICT ACCORDANCE WITH HILTI'S LATEST PUBLISHED RECOMMENDATIONS.

ADHESIVE ANCHOR RODS SHALL COME COMPLETE WITH NUT AND STANDARD-CUT WASHER SIZED TO SUIT ROD DIAMETER.

NUTS FOR ADHESIVE ANCHORS SHALL NEITHER BE TIGHTENED NOR THE ANCHOR OTHERWISE STRESSED OR DISTURBED UNTIL THE ADHESIVE IS FULLY CURED.

4. Structural Steel

1. RESPONSIBILITY:

- THE CONTRACTOR SHALL ENSURE ALL STEEL WORK IS FABRICATED, DELIVERED, ERECTED, INSTALLED, AND TESTED TO ALL CODE REQUIREMENTS AND TO REQUIREMENTS ON THESE DRAWINGS
- THE CONTRACTOR SHALL COORDINATE ALL STEEL WORK WITH THE REQUIREMENTS OF OTHER DISCIPLINES INCLUDING BUT NOT LIMITED TO SLEEVES, CONDUIT, PIPES, DUCTS, CHASES, OPENINGS, INSERTS, ETC.
- STEEL WORK NOT COMPRISING PART OF THE STRUCTURE MAY BE SPECIFIED ON OTHER DISCIPLINES DRAWINGS.

2. CODES:

STRUCTURAL STEEL WORK SHALL CONFORM IN ALL RESPECTS TO THE CODE AND ALL REFERENCED DOCUMENTS. MATERIALS AND PRACTICE SHALL CONFORM TO CSA S16.

3. WORKMANSHIP:

ALL STEEL WORK SHALL BE BUILT LEVEL, PLUMB AND TO THE DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOTIFY WHM IN WRITING THAT THE FABRICATOR IS CERTIFIED

TO A MINIMUM OF DIVISION 2.1 OF CSA STANDARD W47.1. 4. MATERIALS - FRAMING:

RECTANGULAR, ROUND, AND SQUARE HOLLOW STRUCTURAL SECTIONS (HSS):

G40.21M—350W OR EQUIVALENT (Fy=350 MPa)

ROLLED WIDE-FLANGES (W):

G40.21M-350W (Fy=350 MPa) CLASS C. PLATES, BARS, AND SMOOTH RODS: G40.21M—300W OR EQUIVALENT (Fy=300 MPa)

5. MATERIALS - FASTENERS: CSA A325M (Fu = 830 MPa) OR WHERE SPECIFIED ON PLANS,

HIGH STRENGTH BOLTS: CSA A490M (Fu = 1040 MPa).

HILTI HAS-E THREADED RODS: ISO 898 CLASS 5.8 (Fy = 58 ksi / 400 MPa AND Fu = 72.5 ksi / 500 MPa).

CSA A325M or ASTM A563 HEAVY HEX NUTS: CSA A325M or ASTM F436. WASHERS:

6. CONNECTIONS - GENERAL: ALL CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR'S PROFESSIONAL ENGINEER

UNLESS SPECIFICALLY DETAILED ON THESE DRAWINGS. CONNECTIONS AND SPLICES NOT SHOWN OR OTHERWISE PERMITTED ON THE

STRUCTURAL DRAWINGS, BUT REQUESTED BY THE FABRICATOR, SHALL BE BROUGHT TO WHM'S ATTENTION FOR REVIEW AND ACCEPTANCE PRIOR TO FABRICATION.

7. CONNECTIONS - WELDED:

ALL WELDING SHALL CONFORM TO ALL REQUIREMENTS OF THE CANADIAN WELDING BUREAU (CWB) AS LISTED IN CSA STANDARD W59.

ALL WELDING SHALL BE PERFORMED BY CWB CERTIFIED WELDERS UNDER THE REQUIREMENTS OF CSA STANDARD W47.1, THE CONTRACTOR SHALL FURNISH FOR

REVIEW CERTIFICATES OF ALL WELDERS UPON REQUEST. ALL WELDING SHALL BE PERFORMED IN COMPLIANCE WITH THE FABRICATOR'S WRITTEN WELDING PROCEDURE SPECIFICATIONS (WPS), THE CONTRACTOR SHALL FURNISH FOR

REVIEW THE WPS UPON REQUEST. ELECTRODES AND FILLER METAL SHALL BE RATED E480xx (E70xx) OR BETTER.

AS A MINIMUM, WELDED CONNECTIONS SHALL BE 6mm (1/4") FILLETS ALL AROUND.

8. CONNECTIONS - BOLTED:

ALL BOLTED STEEL-TO-STEEL CONNECTIONS SHALL EMPLOY 3/4" DIAMETER MINIMUM HIGH

STRENGTH BOLTS FASTENED FOR SNUG-TIGHTENED CONDITIONS UNLESS SLIP-CRITICAL NUTS AND WASHERS ARE REQUIRED FOR ALL BOLTS. NUTS SHALL BE OF HEAVY HEX

GEOMETRY WITH SUFFICIENT GRIP CAPACITY TO DEVELOP THE FULL TENSILE STRENGTH OF THE BOLT

BOLTED CONNECTIONS SHALL HAVE A MINIMUM OF TWO BOLTS IN EACH CONNECTED

PIECE AND BE DESIGNED AS BEARING CONNECTIONS. BOLTS INTENDED FOR EXTERIOR EXPOSURE SHALL BE HOT DIPPED GALVANIZED.

9. CONNECTIONS - TO OTHER MATERIALS:

ALL CONNECTIONS OF STEEL TO OTHER MATERIALS ARE DETAILED ON THE DRAWINGS.

ALL STRUCTURAL STEEL SHALL BE PRIMED FOR EXTERIOR EXPOSURE AND SHALL BE CLEANED IN ACCORDANCE WITH SSPC SP6 "COMMERCIAL BLAST CLEANING" AS A

STRUCTURAL STEEL TO RECEIVE A SHOP OR FIELD PAINT FINISH SHALL BE CLEANED IN ACCORDANCE WITH THE ARCHITECTURAL SPECIFICATIONS OR SSPC SP6 "COMMERCIAL BLAST CLEANING", WHICHEVER PRODUCES A SURFACE WHICH HAS LESS RUST AND MILL

ALL STRUCTURAL STEEL SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION. WELDS, SCRATCHES, ABRASIONS, ETC., SHALL BE TOUCHED-UP WITH COMPATIBLE ZINC-RICH PAINT AFTER ERECTION.

ZINC-RICH PAINT AS A SUBSTITUTE FOR HOT-DIP GALVANIZING SHALL NOT BE PERMITTED UNLESS SPECIFIED BY THE ARCHITECT OR UNLESS THE CONTRACTOR PROVIDES EQUIVALENT SPECIFICATIONS SATISFACTORY TO THE ARCHITECT AND SIGNED AND SEALED BY A PROFESSIONAL MATERIALS ENGINEER.

11. GROUT:

NON-SHRINK GROUT SHALL BE NON-METALLIC CEMENTITIOUS PASTE WITH A MINIMUM 7-DAY COMPRESSIVE STRENGTH OF 50 MPa. GROUT MAY BE INSTALLED UNDER BASEPLATES AFTER PERMANENT PLUMB/LEVEL IS

PACK GROUT UNDER HYDRAULIC PRESSURE TO FILL COMPLETELY ALL VOIDS. THE FILLED GAP SHALL BE 1" +/- 0.25".

12. SHOP DRAWINGS: SHOP DRAWINGS SHALL BE PREPARED UNDER THE DIRECTION OF A SPECIALTY STRUCTURAL ENGINEER FOR THOSE CONNECTIONS AND COMPONENTS DESIGNED BY THE FABRICATOR. THIS ENGINEER OR THEIR REPRESENTATIVE SHALL VISIT THE SITE TO REVIEW IN PLACE THE CONNECTIONS AND COMPONENTS DESIGNED BY THIS ENGINEER TO SATISFY THEMSELVES THAT THESE CONNECTIONS AND COMPONENTS COMPLY WITH THEIR DESIGN ON THE SHOP DRAWINGS. THIS ENGINEER SHALL ALSO PROVIDE SEALED SKETCHES FOR ALL FIELD MODIFICATIONS MADE TO THEIR DESIGN.THIS ENGINEER SHALL PROVIDE SIGNED AND SEALED SCHEDULES B AND C-B.

13. TESTING:

ALL STEEL SHALL BE TESTED IN CONFORMANCE WITH THE CODE BY AN APPROVED

VISUAL INSPECTION OF ALL SHOP AND FIELD WELDS.

e. TORQUE TESTS ON A RANDOM SAMPLING OF SNUG-TIGHT BOLTING.

d. VISUAL INSPECTION OF ALL BOLTING.

TESTING AGENCY.

APPROVED TESTING AGENCIES ARE AS FOLLOWS a. ELANDER INSPECTION LTD. Phone: (604) 214-1318

b. ACUREN GROUP INC. Phone: (604) 275-3800 IF REQUIRED, ALTERNATIVE TESTING AGENCIES SHALL BE SUBMITTED FOR REVIEW TO WHM IN ADVANCE OF THE COMMENCEMENT OF TESTING. THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER FOR THE OVERALL PROJECT

(NOT THE FABRICATION OR ERECTION SUB-TRADES) SHALL RETAIN THE TESTING AGENCY AND COORDINATE ALL TESTING. WHM IS NOT RESPONSIBLE FOR DEFINING THE FINAL SCOPE AND METHODS OF TESTING. THIS IS THE SOLE RESPONSIBILITY OF THE TESTING AGENCY AND ITS SUPERVISING

ENGINEER. HOWEVER, AS A MINIMUM, THE FOLLOWING SCOPE SHALL BE PERFORMED: a. VISUAL INSPECTION OF ALL FRAMING MEMBERS. b. REVIEW OF A RANDOM SAMPLING OF MILL CERTIFICATES FOR APPROPRIATE STEEL GRADE AND CHEMICAL COMPOSITION.



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Burnaby, BC CANADA V5C 5A9

1	ISSUED FOR BUILDING PERMIT	MAR. 22, 2018	
1	ISSUED FOR TENDER	MAR. 22, 2018	

ISSUE / REVISION

DATE

Seal

Project Title

Guildford Recreation Ctr. Chiller Replacement 15105 - 105th Ave., Surrey

Drawing Title

General Notes, Plan & Details

Project No:	18073	Scale: As Noted				
Project Drafter:	MS	Project Engineer:	MAF			

Dwg. No.

S1