ISSUED FOR TENDER 2019.03.08

GOVERNMENT OF CANADA EXISTING BUILDING RENOVATION 4300 55 Street, Red Deer, Alberta T4N 2H1

Stantec Project #: 144211605

PROJECT TEAM: ARCHITECT:

STANTEC ARCHITECTURE LTD.

325 - 25TH STREET SE CALGARY, AB T2A 7H8

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MECHANICAL ENGINEER: STANTEC CONSULTING LTD.

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ELECTRICAL ENGINEER: STANTEC CONSULTING LTD.

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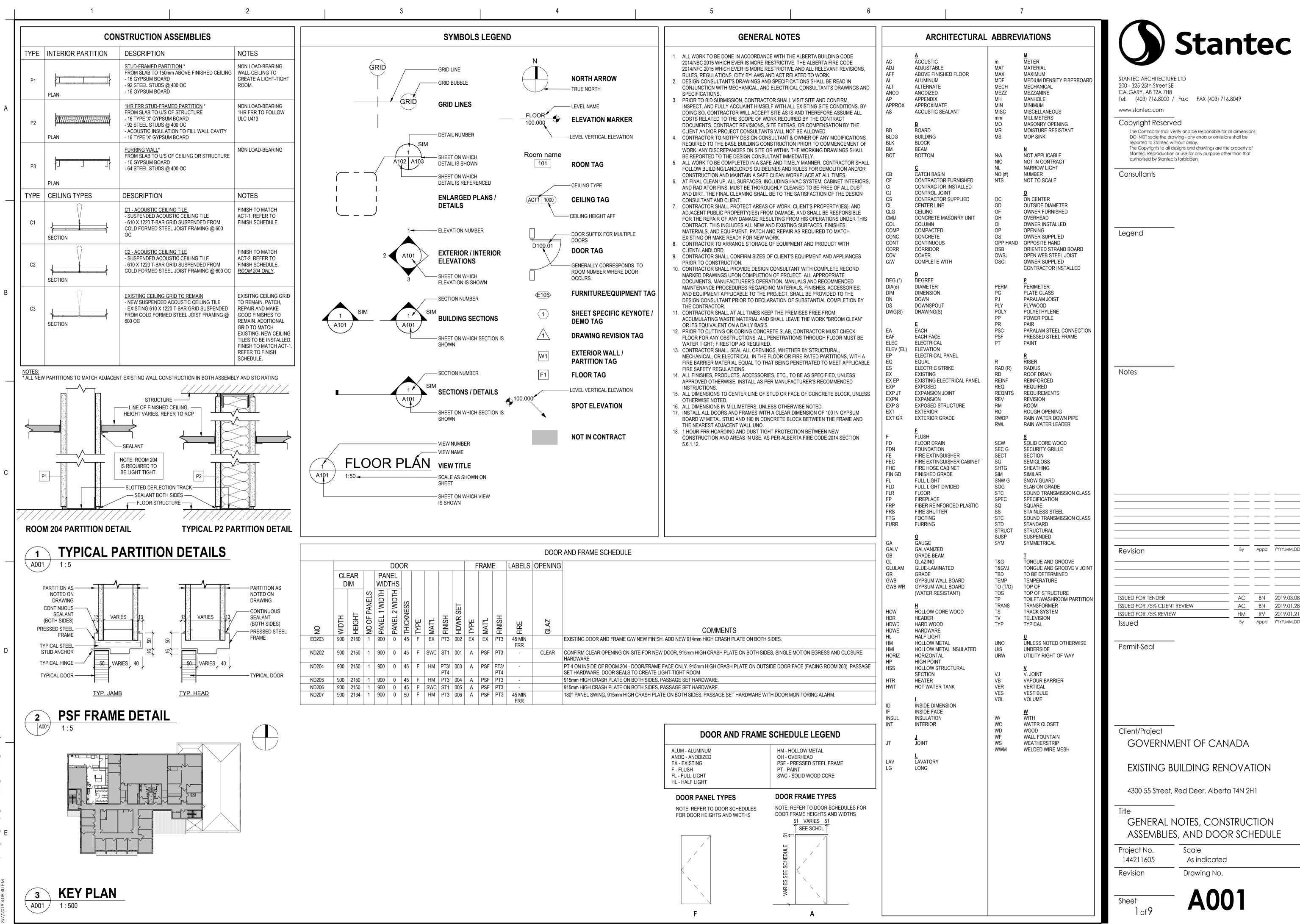
	INDEX - ELECT
NO.	DRAW
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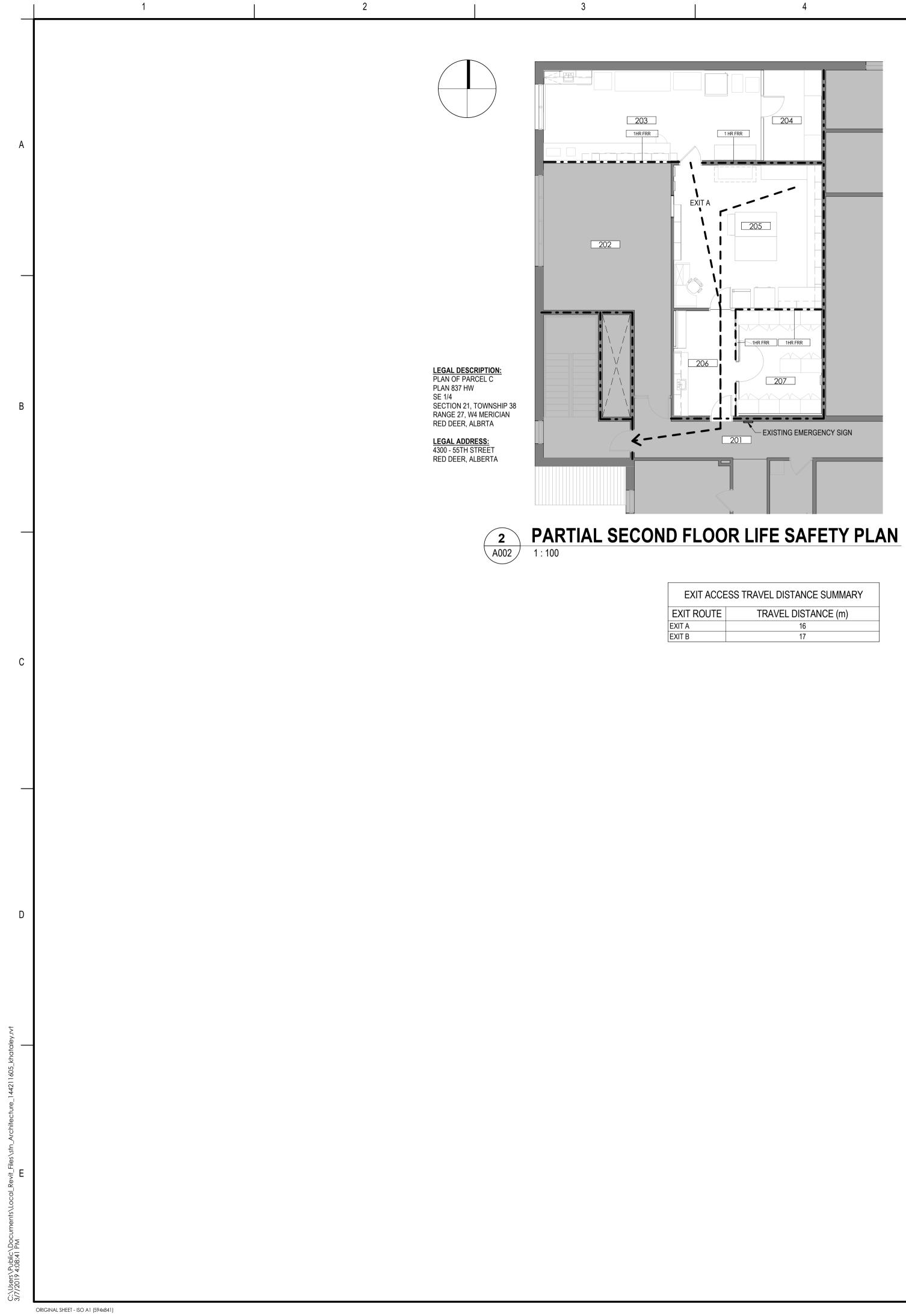
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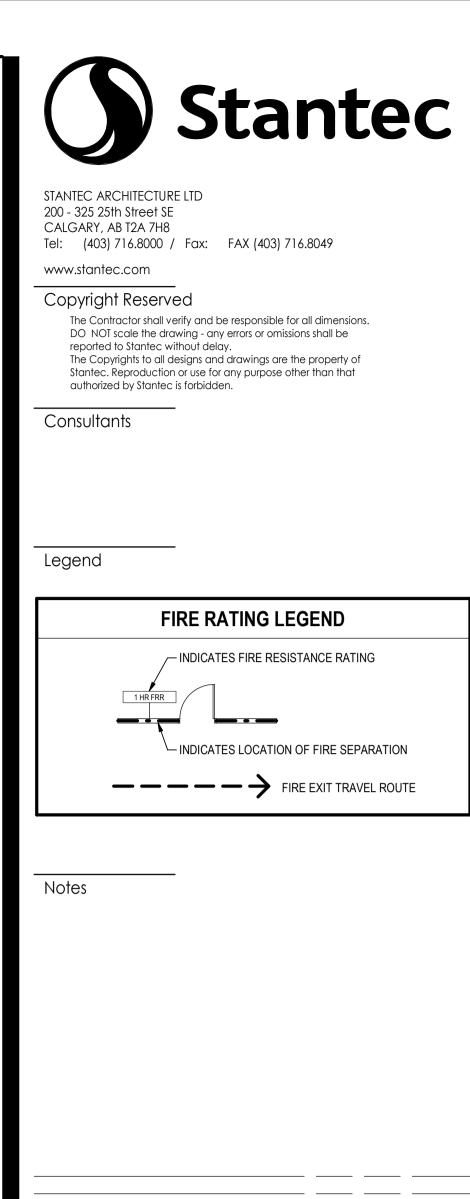
ORIGINAL SHEET - ISO A1 (594x841)





T ACCESS TRAVEL DISTANCE SUMMARY			
OUTE TRAVEL DISTANCE (m)			
16			
17			

	BUILDING CODE SUMMARY	
ITEM	REMARKS	ARTICLE / REFERENC
BASIS OF SUMMARY	-ALL NEW WORK TO BE DONE TO ALBERTA BUILDING CODE 2014 / NATIONAL BUILDING CODE 2015 WHICH EVER IS MORE RESTRICTIVE	
	EXTENT OF WORK WILL BE INTERIOR RENOVATION OF THE LAB LOCATED WITHIN THE SECOND FLOOR.	
BUILDING HEIGHT	-2 STOREY	NBC/ABC 1.4.1.2.
BUILDING AREA	EXISTING BUILDING AREAS BASEMENT = 1400 sq mRENOVATION AREA SECOND FLOOR = 117 sq mMAIN FLOOR = 1400 sq m SECOND FLOOR = 970 sq m 	NBC/ABC 1.4.1.2.
BUILDING CLASSIFICATION	BUILDING WAS CONSTRUCTED TO THE 1985 ALBERTA BUILDING CODE THE EXISTING BUILDING WAS BUILT OF NON-COMBUSTIBLE MATERIALS, NOT SPRINKLERED AND DOES NOT HAVE ANY DETENTION QUARTERS PRESENT	NBC/ABC 3.2.2.60.
	BUILDING CLASSIFICATION UNDER 2015 NATIONAL BUILDING CODE WOULD BE GROUP D UP TO 3 STOREYS -NOT MORE THAN 3 STOREYS IN HEIGHT <2 STOREYS EXISTING> -HAS A BUILDING AREA NOT MORE THAN 3,000 sq m IF 2 STOREYS IN BUILDING HEIGHT FACING 2 STREETS <1510 sq m EXISTING> -SHALL BE OF COMBUSTIBLE OR NON-COMBUSTIBLE CONSTRUCTION -FLOOR ASSEMBLIES SHALL BE FIRE SEPARATIONS AND IF OF NON-COMBUSTIBLE CONSTRUCTION HAVE A FIRE-RESISTANCE RATING NOT LESS THAN 45 MINUTES -MEZZANINES IF OF NON-COMBUSTIBLE CONSTRUCTION SHALL HAVE A FIRE RESISTANCE RATING NOT LESS THAN 1 HOUR -LOADBEARING WALLS, COLUMNS AND ARCHES SHALL HAVE A FIRE-RESISTANCE RATING NOT LESS THAN THAT REQUIRED FOR THE SUPPORTED ASSEMBLY OR BE OF NON-COMBUSTIBLE CONSTRUCTION	
FLAME-SPREAD RATING	-INTERIOR WALLS AND CEILINGS 150 MAX -EXITS 25 MAX -VERTICAL SERVICE SHAFT 25 MAX	NBC TABLE 3.1.13.7. ABC TABLE 3.1.13.2.
OCCUPANT LOAD	NO CHANGES TO EXISTING OCCUPANT LOAD	NBC/ABC TABLE 3.1.17.1.
PORTABLE FIRE EXTINGUISHERS	PORTABLE EXTINGUISHERS SHALL BE PROVIDED AND INSTALLED	NBC TABLE 3.2.5.16. ABC TABLE 3.2.5.16.
EGRESS DOORWAYS	THE LAB CAN BE SERVED BY A SINGLE MEANS OF EGRESS PROVIDED IT HAS AN OCCUPANT LOAD LESS THAN 60 PEOPLE, A MAXIMUM AREA LESS THAN 200 M2 AND A TRAVEL DISTANCE TO A SINGLE MEANS OF EGRESS OF 25 M OR LESS BASED ON AN NON-SPRINKLERED F-3 OCCUPANCY AS PER NBC 2015 ARTICLE 3.3.1.5-A IN THIS CASE THE OCCUPANT LOAD AND AREA LIMITATIONS ARE MET BUT THE TRAVEL DISTANCE TO THE SINGLE MEANS OF EGRESS EXCEEDS 15 M. TO ACCOMMODATE THIS TRAVEL DISTANCE WE SUGGEST ADDING A 1 HOUR FIRE RATED WALL AND DOOR FOR ROOM 203.	NBC/ABC 3.3.1.5-A
CORRIDORS	-MINIMUM WIDTH OF PUBLIC CORRIDOR TO BE NOT LESS THAN 1100mm	NBC/ABC 3.3.1.9.
LOCATION OF EXITS	-MAXIMUM TRAVEL DISTANCE OF 30m FROM ANY AREA WITHIN A FLOOR AREA TO AN EXIT.	NBC/ABC 3.4.2.5.1)f)
EXIT WIDTH	-EXIT CORRIDORS AND PASSAGEWAYS =1100mm MINIMUM -RAMPS =1100mm MINIMUM -STAIRS =900mm MINIMUM -DOORWAYS =800mm MINIMUM	NBC/ABC TABLE 3.4.3.2.A.
WATER CLOSET	NO CHANGE TO OCCUPANCY FIXTURES - EXISTING	
BARRIER FREE ACCESS	NO CHANGE - EXISTING BASE BUILDING CONDITIONS REMAIN	



Revision	Ву	Appd	YYYY.MM.DD
ISSUED FOR TENDER	AC	BN	2019.03.08
ISSUED FOR 75% CLIENT REVIEW	AC	BN	2019.01.28
ISSUED FOR 75% QAQC REVIEW	HM	RV	2019.01.21
Issued	Ву	Appd	YYYY.MM.DC

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Client/Project GOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

4300 55 Street, Red Deer, Alberta T4N 2H1

Title CODE ANALYSIS AND LIFE SAFETY PLAN

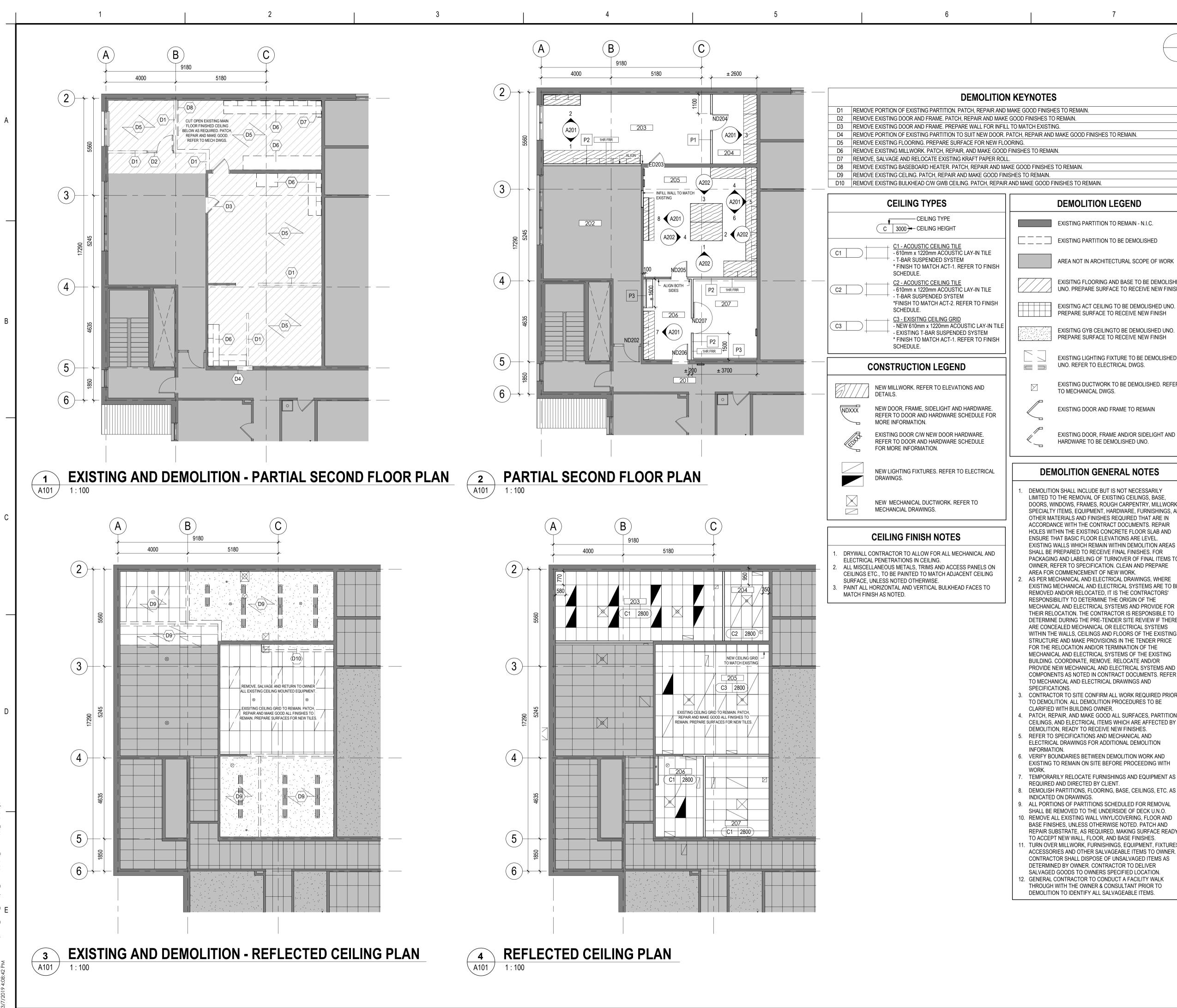
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Project No. 144211605 Revision

Scale 1:100 Drawing No.

Sheet

2 of 9



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Legend

Notes

Revision	 By		YYYY.MM.DD
ISSUED FOR TENDER ISSUED FOR 75% CLIENT REVIEW ISSUED FOR 75% QAQC REVIEW	AC AC HM	BN BN RV	2019.03.08 2019.01.28 2019.01.21
Issued	Ву	Appd	YYYY.MM.DD

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Client/Project GOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

4300 55 Street, Red Deer, Alberta T4N 2H1

Scale

Title

REFLECTED CEILING PLANS

Project No. 144211605

Revision

As indicated Drawing No.

EXISTING AND DEMOLITION FLOOR AND

Sheet 3 of 9



DEMOLITION LEGEND

EXISTING PARTITION TO REMAIN - N.I.C.

EXISTING PARTITION TO BE DEMOLISHED

AREA NOT IN ARCHITECTURAL SCOPE OF WORK

EXISITNG FLOORING AND BASE TO BE DEMOLISHED UNO. PREPARE SURFACE TO RECEIVE NEW FINISH

EXISITNG ACT CEILING TO BE DEMOLISHED UNO. PREPARE SURFACE TO RECEIVE NEW FINISH

EXISITNG GYB CEILINGTO BE DEMOLISHED UNO. PREPARE SURFACE TO RECEIVE NEW FINISH

EXISTING LIGHTING FIXTURE TO BE DEMOLISHED UNO. REFER TO ELECTRICAL DWGS.

> EXISTING DUCTWORK TO BE DEMOLISHED. REFER TO MECHANICAL DWGS.

EXISTING DOOR AND FRAME TO REMAIN

EXISTING DOOR, FRAME AND/OR SIDELIGHT AND HARDWARE TO BE DEMOLISHED UNO.

DEMOLITION GENERAL NOTES

DEMOLITION SHALL INCLUDE BUT IS NOT NECESSARILY LIMITED TO THE REMOVAL OF EXISTING CEILINGS, BASE, DOORS. WINDOWS. FRAMES, ROUGH CARPENTRY, MILLWORK, SPECIALTY ITEMS, EQUIPMENT, HARDWARE, FURNISHINGS, ALL OTHER MATERIALS AND FINISHES REQUIRED THAT ARE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. REPAIR HOLES WITHIN THE EXISTING CONCRETE FLOOR SLAB AND ENSURE THAT BASIC FLOOR ELEVATIONS ARE LEVEL. EXISTING WALLS WHICH REMAIN WITHIN DEMOLITION AREAS SHALL BE PREPARED TO RECEIVE FINAL FINISHES. FOR PACKAGING AND LABELING OF TURNOVER OF FINAL ITEMS TO OWNER, REFER TO SPECIFICATION. CLEAN AND PREPARE AREA FOR COMMENCEMENT OF NEW WORK. AS PER MECHANICAL AND ELECTRICAL DRAWINGS, WHERE EXISTING MECHANICAL AND ELECTRICAL SYSTEMS ARE TO BE

REMOVED AND/OR RELOCATED, IT IS THE CONTRACTORS' RESPONSIBILITY TO DETERMINE THE ORIGIN OF THE MECHANICAL AND ELECTRICAL SYSTEMS AND PROVIDE FOR THEIR RELOCATION. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE DURING THE PRE-TENDER SITE REVIEW IF THERE ARE CONCEALED MECHANICAL OR ELECTRICAL SYSTEMS WITHIN THE WALLS. CEILINGS AND FLOORS OF THE EXISTING STRUCTURE AND MAKE PROVISIONS IN THE TENDER PRICE FOR THE RELOCATION AND/OR TERMINATION OF THE MECHANICAL AND ELECTRICAL SYSTEMS OF THE EXISTING BUILDING, COORDINATE, REMOVE, RELOCATE AND/OR PROVIDE NEW MECHANICAL AND ELECTRICAL SYSTEMS AND COMPONENTS AS NOTED IN CONTRACT DOCUMENTS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS AND

CONTRACTOR TO SITE CONFIRM ALL WORK REQUIRED PRIOR TO DEMOLITION. ALL DEMOLITION PROCEDURES TO BE

PATCH, REPAIR, AND MAKE GOOD ALL SURFACES, PARTITIONS, CEILINGS, AND ELECTRICAL ITEMS WHICH ARE AFFECTED BY DEMOLITION, READY TO RECEIVE NEW FINISHES. REFER TO SPECIFICATIONS AND MECHANICAL AND

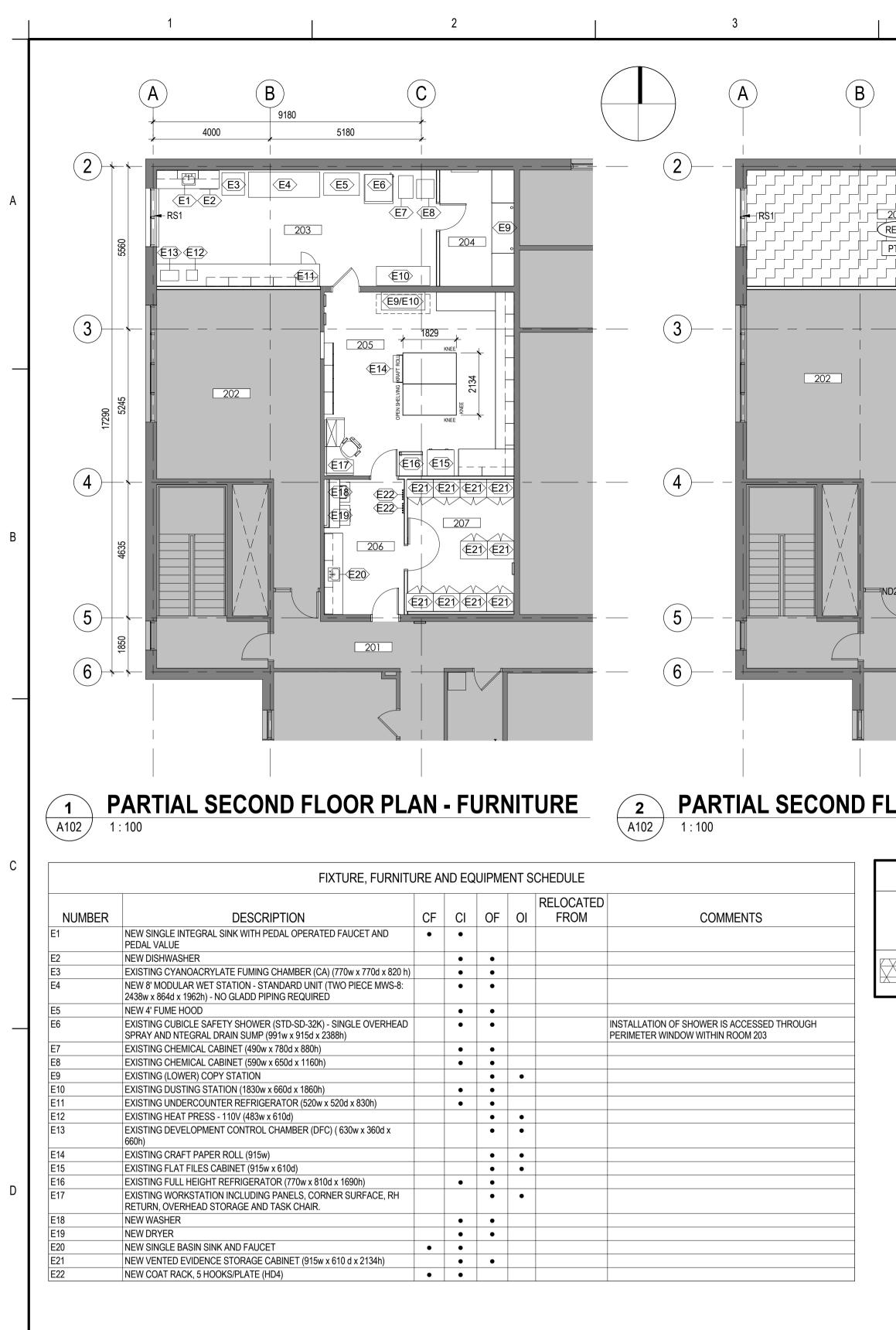
ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION

VERIFY BOUNDARIES BETWEEN DEMOLITION WORK AND EXISTING TO REMAIN ON SITE BEFORE PROCEEDING WITH

TEMPORARILY RELOCATE FURNISHINGS AND EQUIPMENT AS REQUIRED AND DIRECTED BY CLIENT. DEMOLISH PARTITIONS, FLOORING, BASE, CEILINGS, ETC. AS

9. ALL PORTIONS OF PARTITIONS SCHEDULED FOR REMOVAL SHALL BE REMOVED TO THE UNDERSIDE OF DECK U.N.O. 10. REMOVE ALL EXISTING WALL VINYL/COVERING, FLOOR AND BASE FINISHES, UNLESS OTHERWISE NOTED. PATCH AND REPAIR SUBSTRATE, AS REQUIRED, MAKING SURFACE READY TO ACCEPT NEW WALL, FLOOR, AND BASE FINISHES. 1. TURN OVER MILLWORK, FURNISHINGS, EQUIPMENT, FIXTURES,

CONTRACTOR SHALL DISPOSE OF UNSALVAGED ITEMS AS DETERMINED BY OWNER. CONTRACTOR TO DELIVER SALVAGED GOODS TO OWNERS SPECIFIED LOCATION. 12. GENERAL CONTRACTOR TO CONDUCT A FACILITY WALK THROUGH WITH THE OWNER & CONSULTANT PRIOR TO DEMOLITION TO IDENTIFY ALL SALVAGEABLE ITEMS.



4		5	6		
				CHEDULE	
	LEGEND	DESCRIPTION	PRODUCT MANUFACTURER	STYLE	COLOR
	ACT1	ACOUSTIC CEILING TILE, SQUARE LAY-IN, MEDIUM TEXTURE - 610x1220 TILE, MIN. 0.70 NRC AND MIN. 35 CAC RATINGS, COMPLETE WITH 09.375mm SUSPENSION SYSTEM	ARMSTRONG CEILINGS	1755 FINE FISSURED HIGH NRC & PRELUDE XL SUSPENSION SYSTEM	WHITE (WH) & BLIZA WHTE
	ACT2	ACOUSTIC CEILING TILE, SQUARE LAY-IN, MEDIUM TEXTURE - 610x1220 TILE, MIN. 0.70 NRC AND MIN. 35 CAC RATINGS, COMPLETE WITH 09.375mm SUSPENSION SYSTEM	ARMSTRONG CEILINGS	1729BL FINE FISSURED & PRELUDE XL SUSPENSION SYSTEM	TECH BLACK (BL) & TECH BLACK
RES2	EPC1	EPOXY COUNTER, 25mm THICK DURABLE, HIGH QUALITY CHEMICAL RESISTANT, SOLID EPOXY RESIN, C/W FINISHED RADIUS EDGE TREATMENT	AMERICAN EPOXY SCIENTIFIC	MATTE	BLACK
	HD1	HARDWARE, MILLWORK - EXTRA-HEAVY DUTY, COUNTERTOP BRACKET (TO SUPPORT 610mm DEEP COUNTER)	RICHELIEU (RAKKS)	EH1824	BLACK
	HD2	HARDWARE, MILLWORK - ADJUSTABLE SQUARE 60mm LEG, 870mm HIGH (C/W 10mm ADJUSTMENT CAPACITY) WITH 150KG LOAD CAPACITY PER LEG	RICHELIEU	ADJUSTABLE SQUARE LEGS (644870170)	STAINLESS STEEL
	HD3	HARDWARE, MILLWORK - ROUND PLASTIC CABLE GROMMET, 80mm BORE HOLE	RICHELIEU	60345090	BLACK
	HD4	HARDWARE, COAT HOOK - WALL MOUNTED, 5 COATS ON ANODIZED ALUMINUM FLUSH PLATE	PETER PEPPER PRODUCTS	2141XL	ANODIZED ALUMINU
	HD5	HARDWARE, MILLWORK - 12" HEAVY DUTY STEEL SHELF BRACKET (1,100lb LOAD CAPACITY/ PAIR)	RICHELIEU	9910081230	WHITE
	LKR1	LOCKERS - 915mm WIDE, 610mm DEEP, 2134mm HIGH, VENTED EVIDENCE STORAGE CABINET	INTERLAB	BYOWNER	MIDNIGHT BLACK
RES2 RES2	ML1	MELAMINE	REFER TO SPECIFICATION		WHITE
	MP1	MILLWORK PULL - 1128mm (CTR TO CTR) BRUSHED NICKEL CONTEMPORARY METAL PULL	RICHELIEU	CONTEMPORARY METAL PULL - 8160 (BP8160128195)	BRUSHED NICKEL
	PL1	PLASTIC LAMINATE - COUNTERTOPS	WILSONART	LENO WEAVE FINISH	5012K-19 MAGNOLI
201	PL2	PLASTIC LAMINATE - COUNTERTOPS	WILSONART	TRACELESS FINISH	15505-31 BLACK VELVET
	PL3	PLASTIC LAMINATE - VERTICALS	ARBORITE	LEGNO FINISH	W-475 LE DOWNTOW URBAN WALNUT
	PL4	PLASTIC LAMINATE - VERTICALS	FORMICA	PLEX FINISH	7197-PX DOVER WHITE
	PT1	PAINT - WALL, FIELD	SHERWIN WILLIAMS	OPULENCE LOW LUSTRE	SW7646 FIRST STAI (256-C6)
	PT2	PAINT - WALL, FIELD	SHERWIN WILLIAMS	SATIN/EGG SHELL	SW6258 TRICOM BLA (251-C1)
LOOR PLAN - FINISHES	PT3	PAINT - INTERIOR METAL DOOR & FRAME		SEMI-GLOSS	TO MATCH EXISTIN DOORS AND FRAME
FINISHES LEGEND	PT4	PAINT - INTERIOR METAL DOOR & FRAME	SHERWIN WILLIAMS	SEMI-GLOSS	SW6258 TRICOM BLA (251-C1)
FT1 FLOOR FINISH		RUBBER FLOOR BASE - 100mm HIGH COVE	ROPPE	PINNACLE BUTT-TOW	100 BLACK
PT-1 WALL FINISH	RES1	RESILIENT SHEET FLOORING - HOMOGENEOUS SLIP RESISTANT, 2.03mm THICK	MANNINGTON COMMERCIAL	ASSURANCE II	SHALE 16303
RESILIENT SHEET FLOORING RESILIENT SHEET FLOORING	OORING RES2	RESILIENT SHEET FLOORING - HOMOGENEOUS SLIP RESISTANT, 2.03mm THICK	MANNINGTON COMMERCIAL	ASSURANCE II	STONE GRAY 1630
	RS1	DUEL ROLLER SHADE SYSTEM, 3% OPENNESS SHADECLOTH & 100% BLACKOUT SHADE COMPLETE WITH SIDE CHANNELS, OPEN HEM & INSERTED BOTTOM BAR, MANUAL CHAIN OPERATOR AND FASCIA - INSTALL WITHIN EXISTING DRYWALLED WINDOW OPENING, DO NOT ATTACH TO PERIMETER WINDOW MULLIONS	SUNPROJECT	DUEL SHADES, TEXSCREEN ECO R 1203 & TEXOPAQUE ECO 6100	1203-04 & 6100-03
	SSC1	STAINLESS STEEL COUNTER, 316 - 14 GAUGE, C/W MARINE EDGE ON 3 SIDES, INTERGRAL 90° RETURN BACKSPLASH, AND SINGLE INTEGRAL (356mm) SINK WITH DRAIN BOARD ON LEFT HAND SIDE ADN DRAIN SCREEN	REFER TO SPECIFICATION	FINISH: #4	STAINLESS STEEL
	ST1	STAIN, VARNISH FOR WOOD DOORS C/W CLEAR PROTECTIVE TOP COAT	REFER TO SPECIFICATION	MATCH EXISTING FINISH (SHEEN)	CLEAR
				1	
 GENERAL FINISH 1. THESE DRAWINGS ARE TO BE READ THE FINISH SPECIFICATIONS, SCHED ELEVATIONS, DETAILS, ETC. 2. SUBMIT 2 SETS OF SAMPLES (minimu MATERIALS TO THE CONSULTANT FO ORDERING. 3. WHERE COLOUR OR EXTENT OF FINI CONTACT CONSULTANT FOR CLARIF PROCEEDING. 4. ALL MATERIALS LISTED HAVE BEEN S COLOUR, TEXTURE, AND PATTERN. N THE SPECIFIED MANUFACTURER SH, PRIOR APPROVAL FROM THE CONSU 5. ASSUME ALL UNFINISHED SURFACES 6. USE THE LARGEST CONTINUOUS PIE PROVIDED BY MANUFACTURER, TO O OF EACH FINISH. ALL FINISHES AND INSTALLED AS PER MANUFACTURER AND ENSURE COMPATIBILITY WITH O AND CLEANING PRACTICES AND PRO 7. FOR PAINTING GLOSS LEVELS FOR V TYPES, REFER TO SPECIFICATIONS S PAINTING. 8. FOR ALL MILLWORK FINISHING, REFER 	IN CONJUNCTION WITH DULES AND ALL PLANS, m) OF ALL FINISH OR APPROVAL PRIOR TO SH IS IN QUESTION, ICATION PRIOR TO SELECTED FOR SPECIFIC IO SUBSTITUTIONS FOR ALL BE MADE WITHOUT ILTANT. S PAINTED. CE OF MATERIAL, AS COMPLETE INSTALLATION MATERIALS ARE TO BE S' RECOMMENDATIONS OWNERS MAINTENANCE ICEDURES. (ARIOUS SUBSTRATE SECTION 09 91 00 -	 WALL FINISH FINISHES TO CONTINUE TO NEAF UNLESS NOTED OTHERWISE REFER TO DOOR AND FRAME SC DRAWINGS AND IN SPECIFICATIO FINISHES ALL ELECTRICAL PANEL DOORS F ADJACENT WALL FINISH. ALL MISCELLANEOUS METALS, TH PAINTED TO MATCH ADJACENT V ALL FIRE EXTINGUISHERS AND E PAINTED TO MATCH ADJACENT V ALL FIRE EXTINGUISHERS AND E PAINTED TO MATCH ADJACENT V ALL WALL REVEALS PAINTED TO PAINT INDICATIONS FOR PERIME AND DRYWALL SILLS, U.N.O. ALL PAINTED PARTITIONS TO HAY RECEIVE A MINIMUM OF 1 PRIME PREMIUM LATEX OF THE PRODUC COLOURS TO RECEIVE ADDITION PRODUCTS ONLY AS REQUIRED APPEARANCE. SEEK CONSULTAN ALTERNATE DARK COLOUR PAIN REQUIRED AND ONE COAT OF CL REQUIRED 	REST WALL END OR CORNER, HEDULE LOCATED ON ONS FOR DOOR AND FRAME ETC. TO BE PAINTED TO MATCH RIMS, ETC. ON WALLS TO BE VALL FINISH. LECTRICAL CABINETS TO BE VALL FINISH. MATCH THE WALL THEY ARE ON TER WALLS INCLUDE BULKHEAD VE COMPLETE COVERAGE AND R COAT AND 2 TOP COATS - CT SPECIFIED. DARKER IAL COATS USING SPECIFIED TO ACHIEVE UNIFORM COLOUR IT APPROVAL, FOR USE OF AN T, CONSULTANTS APPROVAL	 FINISHES PRIOR T 2. FLOORING CONTRINSTALLER AS REG 3. FLOORING CONTRITO ENSURE A SMO 4. ALL FLOOR FINISHINTERIOR WALLS. 5. FLOORING CONTRICONSULTANT TO IN POSSIBLE SHOULD 6. ALL FLOOR FINISHING ON FLOOR CAN BE CAVITY TO FACE O 7. FLOOR FINISHES TO EXTERIATE IN FULL CLOS 8. FINISHES TO EXTERIATE WALL AS HIGH AS 9. CABLE WELDS BETICOLOUR AS SPEC 10. CABLE WELDS BETICOLOUR AS SPEC 11. CABLE WELDS BETICOLOUR FINISHING 11. CABLE WELDS BETICOLOUR AS SPEC 12. ALL BASEBOARDS WITH EXCEPTION 13. ALL FLOORS MUSTICATION AND AND AND AND AND AND AND AND AND AN	ACTOR TO COORDINAT QUIRED. ACTOR TO FEATHER C DOTH, LEVEL TRANSITIO IES TO BE FLUSH WITH ACTOR TO SUPPLY SEA REVIEW PRIOR TO INST D FALL CLOSER TO WAI IES SHALL EXTEND TO I E REMOVED, FLOOR FIN DF WALL. ALL FLOORING ARE TO TERMINATE CEI SED POSITION. END UNDER CONVECTO POSSIBLE, U.N.O. TWEEN COLOUR TRANS IFIED. THIN SAME COLOUR OF ING. TWEEN COLOUR TRANS D FLOOR COLOUR TRANS D FLOOR COLOUR, U.N. TO BE RUBBER BASE O OF WASHROOMS OR O
				APPROVED BY CO 15. WHERE SHEET GC	INSTALL TRANSITION S

	NOTES
.IZARD	AS NOTED (C1) (NEW TILES FOR C3)
L) & (AS NOTED (C2): ROOM 204 ONLY
	ROOM 203, 205
	ROOM 204 (PROVIDE BACKING IN WALL)
EL	ROOM 205
	ROOM 204
INUM	ROOM 206 (PROVIDE BACKING IN WALL)
	ROOM 206 (PROVIDE BACKING IN WALL)
СК	ROOM 207 - OWNER SUPPLIED
	MILLWORK INTERIORS
(EL	MILLWORK CABINET PULLS; ROOM
	203, 205, 206 ROOM 206
_	ROOM 204
T OWN	LOWERS; ROOM 203, 204, 205, 206
JT	AS NOTED - FRONTS & OPEN
E TAR	SHELVES ONLY; ROOM 203, 205, 206
	ROOM 203, 205, 206, 207
BLACK	ROOM 204
TING MES	AS NOTED
BLACK	INSUDE DOOR/ FRAME FACE ONLY: ROOM 204
	AS NOTED
}	ROOM 204 ONLY
6302	ROOM 203, 205, 206, 207
-03	ROOM 203
EL	ROOM 203
	ROOM 202, 206
NISH	NOTES
NATE IN R CONC BITION E ITH COL SEAMIN NSTALL WALLS TO FAC FINISH RING TC	IS SMOOTH AND LEVEL FOR NEW IS SMOOTH AND LEVEL FOR NEW ISTALLATION WITH MILLWORK CRETE OVER A 1200mm (4'-0") AREA BETWEEN FLOORING FINISHES. LUMN, BUILDING PERIMETER AND NG DIAGRAM FOR DESIGN ATION. ALL SEAMS WHEREVER THAN HIGH TRAFFIC AREAS. E OF TOE KICK. WHERE EQUIPMENT TO EXTEND INTO RECESS OR D EXTEND INTO CLOSETS. RED UNDER DOORS WHEN DOORS
ANSITIC	ABINET AND COVE UP PERIMETER DNS OF RESILIENT FLOORING TO BE SILIENT FLOORING TO MATCH

ANSITIONS OF RESILIENT FLOORING TO BE J.N.O. SE ON ALL BASE BUILDING CONSTRUCTION R OTHER WITH INTEGRAL BASE. OINTS ALIGNING WITH BASE BUILDING

TRANSITION BETWEEN DISSIMILAR N STRIPS AS NOTED. COLOUR TO BE

15. WHERE SHEET GOODS ARE BEING INSTALLED, SUBFLOOR TO BE WELL PREPARED & CURED SO SUBFLOOR WILL NOT TELEGRAPH THROUGH.



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			0010 00 00
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Permit-Seal

Client/Project GOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

4300 55 Street, Red Deer, Alberta T4N 2H1

Title PARTIAL FINISHES PLAN AND FURNITURE PLAN

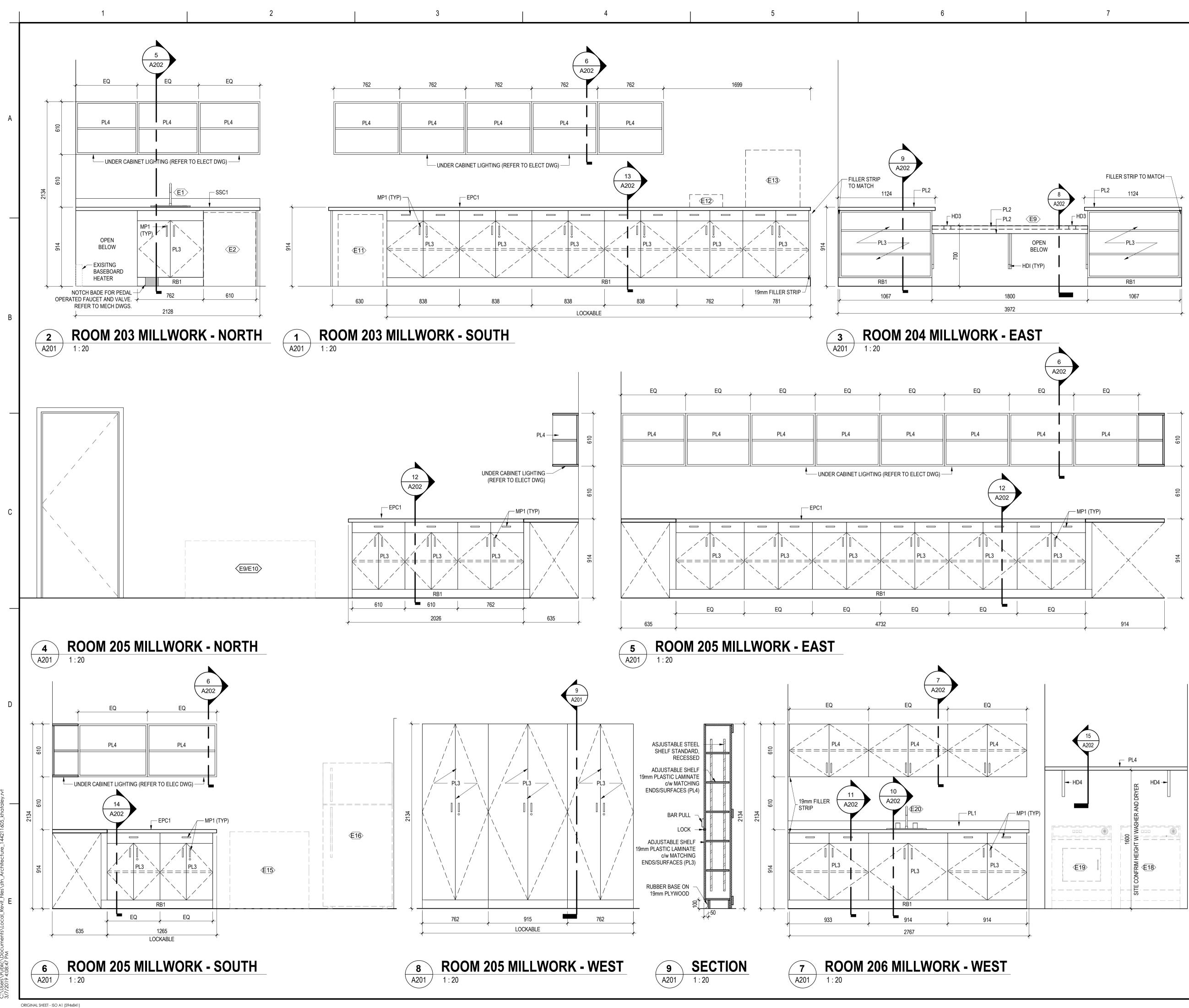
Project No. 144211605 Scale 1:100

Drawing No.

Sheet $4_{\text{of}}9$

Revision







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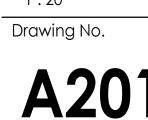
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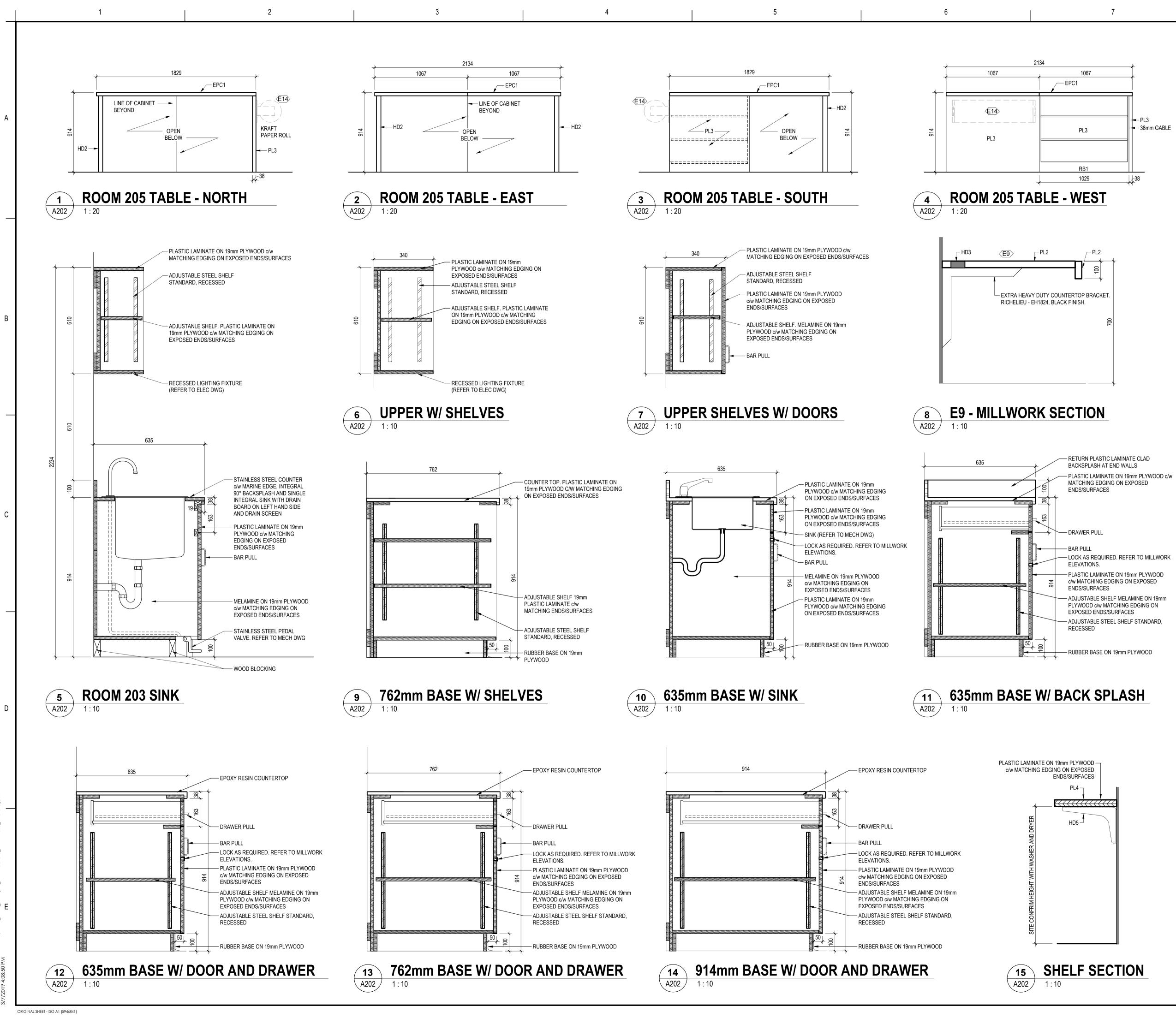
Title MILLWORK

Project No. 144211605 Revision

Scale 1:20

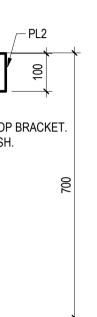
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Client/Project GOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

4300 55 Street, Red Deer, Alberta T4N 2H1

Title MILLWORK

Project No. 144211605 Revision

Scale As indicated Drawing No.

Sheet of **9** A202

	1	2	3 4
	MECHANICAL EQUIPM	IENT & TAGGING LEGEND	MECHANICAL DRAWING LIST
	QUANTITY		DRAWING NO. DRAWING NAME:
	TYPE AIR OUTLET TAG		M001 MECHANICAL DRAWING LIST, LEGEND & SCHEDULES
	SIZE (mm) VOLUME (L/s) AIR OUTLET TAG (REFER TO SCHEDULE)		M200 PARTIAL SECOND FLOOR PLUMBING PLAN
			M201 PARTIAL SECOND FLOOR HVAC & FIRE PROTECTION PLAN M300 PARTIAL ROOF PLAN
٨	DOOR GRILLE TAG (REFER TO SCHEDULE)		M400 MECHANICAL DETAILS
A	TYPE LENCTH (mp) RADIATION HEAT TAG		M401 MECHANICAL DETAILS M500 MECHANICAL SPECIFICATIONS
	LENGTH (mm) (REFER TO SCHEDULE) (REFER TO SCHEDULE)		
	QUANTITY (REFER TO SCHEDULE)		GENERAL NOTES:
	(XYZ-123) EQUIPMENT TAG		1. THIS PROJECT INVOLVES WORK WITHIN AN EXISTING BUILDING. THEREFORE, CAREFUL
	(REFER TO SCHEDULE)		EXAMINATION OF THE SITE AND LOCAL CONDITIONS WILL BE REQUIRED TO DETERMINE THE COMPLETE SCOPE ASSOCIATED WITH CARRYING OUT THE WORK AS
	MECHANICAL EQUIPMENT ABBREVIATIONS:	AIR TERMINAL ABBREVIATIONS:	INDICATED. ANY EXISTING MECHANICAL WORK INDICATED ON THESE DRAWINGS SHALL NOT BE CONSIDERED 'AS-BUILT'. CONTRACTOR TO NOTIFY CONSULTANT OF
	EBB-* ELECTRIC BASEBOARD HEATER	R-* RETURN AIR GRILLE S-* SUPPLY AIR GRILLE/DIFFUSER	DISCREPANCIES. EXTRAS WILL NOT BE CONSIDERED BASED ON THE GROUNDS OF DIFFERENCES ON SITE.
	EF-* EXHAUST FAN TB-* TERMINAL BOX	T-* TRANSFER AIR GRILLE	2. ALL DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO INSTALLATION.
		PLUMBING FIXTURE ABBREVIATIONS:	3. ALL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL
		DW-* DISHWASHER EMS-* EMERGENCY SHOWER	AND ELECTRICAL DRAWINGS.
		LB-* LAUNDRY BOX	4. DO NOT SCALE DRAWINGS. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS
		SK-* SINK	OR SPECIFIED THAT ARE NOT DEFINED BY FIXED DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND
			RESULTS MUST BE DETERMINED BY THE SITE CONDITIONS. REVIEW ALL REVISIONS WITH THE CONSULTANT.
			5. CONTRACTOR TO NOTIFY CONSULTANT OF ANY CONDITIONS ON SITE WHICH WOULD
В			PREVENT AND/OR AFFECT THE WORK AS SHOWN ON THESE PLANS.
			 SCHEDULE C WILL ONLY BE ISSUED ONCE THE FOLLOWING DOCUMENTS HAVE BEEN SUBMITTED TO AND ACCEPTED BY THE PRIME CONSULTANT:
			- HYDRONIC BALANCING REPORT.
			- FINAL AIR BALANCE REPORT. - FIRE DAMPER DROP TEST REPORT.
			- CONTRACTOR SIGN-OFF ON ALL DEFICIENCIES REPORTED IN SITE REVIEWS.
			IT SHALL BE THE RESPONSIBILITY OF BOTH THE GENERAL CONTRACTOR AND THE MECHANICAL CONTRACTOR TO ENSURE THAT THE ABOVE IS SUBMITTED IN A TIMELY
			MANNER SO THAT THE ENGINEER OF RECORD WILL HAVE SUFFICIENT TIME TO REVIEW THE SUBMISSIONS. THE CONSULTANT SHALL NOT BE RESPONSIBLE FOR ANY
			DELAYS INCURRED DUE TO INCOMPLETE SUBMISSIONS. REFER TO MECHANICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
—			
С			
D			
			TAG MANUFACTURER MODEL
-			EF-1 PENN BARRY DX06B
			EF-2PENN BARRYZ5HEF-3PENN BARRYDX08BEXI
			DOMESTIC DOMESTIC
			HOT COLD REF. WATER WATER DRA
			DW-1 15 0 50 EMV-1 15 15 50
Е			LB-1 15 15 50
			SK-1 15 15 50
~			SK-2 15 15 50
04 PN			
3:56:(
//2019 3:56:04 PM			

ORIGINAL SHEET - ARCH D (24"x36")

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HVAC SYMBOLS LEGEND

RECTANGULAR DUCT EXTERIOR DUCT INSULATION RECTANGULAR DUCT (WITH ACOUSTIC INSULATION) ROUND DUCT SQUARE ELBOW TURN (S/A & O/A - UP/DOWN) SQUARE ELBOW TURN (R/A & T/A - UP/DOWN) SQUARE ELBOW TURN (E/A & REL/A - UP/DOWN) ELBOW, ROUND, SMOOTH RADIUS (UP/DOWN) TEE, 45 DEG. RECTANGULAR MAIN AND

BRANCH TEE, 45 DEG. REECTANGULAR MAIN

AND BRANCH, SQUARE TO ROUND TEE, 45 DEG. ROUND MAIN AND

BRANCH CONICAL WYE, 45 DEG., ROUND MAIN AND BRANCH

ELBOW, RECTANGULAR, SMOOTH RADIUS WITH SPLITTER VANES (0.25 R/W DEFAULT) ELBOW, RECTANGULAR, SMOOTH RADIUS WITHOUT VANES (1.5 R/W DEFAULT) ELBOW, ROUND, SMOOTH RADIUS

(1.5 R/W DEFAULT)

ELBOW, RECTANGULAR, MITERED WITH TURNING VANES

ELBOW, 90 DEG., RECTANGULAR TEE

ELBOW, 90 DEG., RECTANGULAR WYE

45 DEG. WYE, CONICAL MAIN AND BRANCH, ROUND TRANSITION, RECTANGULAR,

PYRAMIDAL (30° CONTRACTUAL ANGLE DEFAULT)

DENOTES EXISTING EQUIPMENT

FIRE DAMPER

THERMOSTAT

CEILING DIFFUSER 600x600/300x300

AIR FLOW ARROWS

VAV BOX (REFER TO SCHEDULE)

CENTRIFUGAL DOWNBLAST EXHAUST FAN

RADIATION CABINET HEATER

ELECTRIC BASEBOARD HEATER SCHEDULE									
		WATTAGE			FREQUENCY				
MANUFACTURER	MODEL	(W)	VOLTS (V)	PHASE	(Hz)	REMARKS			
OUELLET	OFM1002	1000	120	1	60	C/W INTEGRAL THERMOSTAT			
OUELLET	OFM0502	500	120	1	60	C/W INTEGRAL THERMOSTAT			
TERMINAL BOX SCHEDULE									
		BOX INLET S	IZE	L/S RA	NGE				
MANUFACTURER	MODEL	(mm)	Μ	IN.	MAX.	REMARKS			
E.H. PRICE	SPV8000	100		24	55	C/W 900mm ATTENUATOR			
	MANUFACTURER OUELLET OUELLET MANUFACTURER	MANUFACTURER MODEL OUELLET OFM1002 OUELLET OFM0502	MANUFACTURERMODELWATTAGE (W)OUELLETOFM10021000OUELLETOFM0502500TERMMANUFACTURERMODELBOX INLET S (mm)	MANUFACTURER MODEL WATTAGE (W) VOLTS (V) OUELLET OFM1002 1000 120 OUELLET OFM0502 500 120 TERMINAL B MANUFACTURER MODEL BOX INLET SIZE (mm) M	ELECTRIC BASEBOARD F MANUFACTURER MODEL WATTAGE (W) VOLTS (V) PHASE OUELLET OFM1002 1000 120 1 OUELLET OFM0502 500 120 1 TERMINAL BOX S MANUFACTURER MODEL BOX INLET SIZE (mm) L/S RA	ELECTRIC BASEBOARD HEATER ELECTRICAL WANUFACTURER MODEL WATTAGE (W) VOLTS (V) PHASE FREQUENCY (Hz) OUELLET OFM1002 1000 120 1 60 OUELLET OFM0502 500 120 1 60 TERMINAL BOX SCHEDUL MANUFACTURER MODEL BOX INLET SIZE (mm) L/S RANGE			

									TB-2	E.H. PRICE	SPV8000
								FA	N SCHE	DULE	
TAG	MANUFACTURER	MODEL		SERVIC	E	ТҮРЕ	MOUNTING ARRANGEMENT	AIR FLOW (L/s)	EXT. STATIC PRESS. (Pa)	ELECTRICAL V/Ph/Hz	_
EF-1	PENN BARRY	DX06B	CH	EMICAL CA	ABINETS	DIRECT DRIVE	ROOF MOUNTED	94	124	120/1/60	C/W BACKDRAFT DA
EF-2	PENN BARRY	Z5H		LIGHTRC	OM	DIRECT DRIVE	SUSPENDED FROM STRUCTURE	47	62	120/1/60	C/W VIBRATION ISOL
EF-3	PENN BARRY	DX08B	EXHIBI	T STORAG	E LOCKERS	DIRECT DRIVE	ROOF MOUNTED	236	93	120/1/60	C/W BACKDRAFT DA
							PLUM	BING	FIXTUF	RE SCH	EDULE
RE	DOMESTIC HOT F. WATER	DOMESTIC COLD WATER	DRAIN	VENT							ACCESSORIES

	HOT	COLD			
REF.	WATER	WATER	DRAIN	VENT	ACCESSORIES
DW-1	15	0	50	40	DISHWASHER TO BE SUPPLIED BY OWNER.
EMV-1	15	15	50	40	EMERGENCY SHOWER FIXTURE TO BE SUPPLIED BY OWNER. BRADLEY S19-2000 EMERGENCY THERMOSTATIC MIXING VALVESTAINLESS STEEL CABINET. COORDINATE FINAL LOCATION WITH ARCHITECTURE.
LB-1	15	15	50	40	P.P.P MM-500PLB LAUNDRY BOX MOLDED FROM HIGH IMPACT POLYSTYRENE INCLUDES NECESSARY MOUNTING BRACKETS TYPE L HARD DRAWN COPPER, CAP MACHINED OF FREE TURNING BRASS, COMPOSITE MATERIALS FOR PISTON, EPDM SEAL SYSTEMS. NORMAL PRESSURE 0 TO 81 PSIG, MAX PRESSURE 250 PSIG. QUARTER TURN BALL VALVE.
SK-1	15	15	50	40	FRANKE COMMERCIAL #LBS6808-1/1 SINGLE BOWL COUNTERTOP MOUNT SINK, 1 HOLE, 508 mm WIDE x 521 mm LONG x 203 m STEEL, SELF-RIMMING, MOUNTING KIT PROVIDED. AMERICAN STANDARD PEKOE #4332.350.002 SINGLE HANDLE FAUCET, POL AERATOR OUTLET, BRASS SWING SPOUT AND SWING ARM METAL HOSE AND PROTECTOR COIL, LEVEL HANDLE, PULL-DOWN #8912CB P-TRAP.
SK-2	15	15	50	40	REFER TO ARCHITECTURAL DRAWINGS FOR SINK INFORMATION. PEDAL OPERATED FAUCET - BELOW DECK MECHANICAL W. CHROME PLATED FINISH, CENTER HOLE ONLY, ECAST CONSTRUCTION LEAD FREE. SOLID BRASS BODY WITH INTEGRAL DEC CHICAGO FAUCETS #628 FLOOR MOUNTED PEDAL VALVE, 13mm FNTP TOP OUTLET, SHORT PEDAL. LAWLER #TMM-1070 BELC INLETS AND OUTLET COMPRESSION FITTINGS, HIGH TEMPERATURE THERMOSTATIC LIMIT STOP, SHUT-OFF WITH AUTOMAT AND FLEX COPPER TUBING TO SUIT INSTALLATION. MCGUIRE #8912CB P-TRAP, HEAVY CAST BRASS ADJUSTABLE BODY WITH

PIPE & VALVE SYMBOLS LEGEND

	PIPE CONTINUATION BREAK
]	PIPE CAP
—	FLOW ARROW
C	PIPING ELBOW DOWN
0	PIPING ELBOW UP
—0 —	PIPING TEE UP
	PIPING TEE DOWN
_	PIPING TEE
G	SANITARY/STORM PIPING DOWN
0	SANITARY/STORM PIPING UP
—0 —	SANITARY/STORM PIPING TEE UP
	SANITARY/STORM PIPING TEE DOWN
	SANITARY/STORM BRANCH
Ⅰ ─────┃Ico ──── ─ Oco	STANDARD CLEAN-OUT IN LINE END OF RUN STANDARD CLEAN-OUT THROUGH
	FLOOR END OF RUN STANDARD CLEAN-OUT THROUGH FLOOR IN LINE
% SLOPE	PIPING SLOPE
ዮ	'P' TRAP
—Å—	2-WAY CONTROL VALVE
	GATE VALVE
8	SANITARY VENT
FD 🗭	FLOOR DRAIN
	FUNNEL FLOOR DRAIN
HD 🗭	HUB DRAIN

PIPE SYSTEMS IDENTIFICATION LEGEND

T	
 SA	N———

PLUMBING - DOMESTIC WATER - COLD PLUMBING - DOMESTIC WATER - HOT PLUMBING - DOMESTIC WATER - HOT RECIRC. PLUMBING - DOMESTIC WATER - TEMPERED PLUMBING - SANITARY (BELOW GRADE OR FLOOR)

DIFFUSER SCHEDULE									
TAG	MANUFACTURER	MODEL	MOUNT.						
E-1	E.H. PRICE	SERIES 80	EGGCRATE, T-BAR MOUNTED						
R-1	E.H. PRICE	SERIES 80	EGGCRATE, T-BAR MOUNT						
S-1	E.H. PRICE	SPD / 24x24	SQUARE, T-BAR MOUNTED						
T-1	E.H. PRICE	SERIES 80	EGGCRATE, T-BAR MOUNT						

NOTE: ALL DIFFUSERS AND GRILLES TO MATCH EXISTING COLOR.

	FIRE PROTECTION LEGEND	
FE 🌑	FIRE EXTINGUISHER	

BOX INLET SIZE	LISIN		
(mm)	MIN.	MAX.	REMARKS
100	24	55	C/W 900mm ATTENUATOR
225 47 194		194	C/W 900mm ATTENUATOR

NOTES

DAMPER, MOUNTING PEDESTAL AND BIRDSCREEN. FAN SHALL BE ON EMERGENCY POWER. OLATION KIT AND SPEED CONTROLLER.

DAMPER, MOUNTING PEDESTAL AND BIRDSCREEN. FAN SHALL BE ON EMERGENCY POWER.

ALVE, BUILT-IN COLD WATER BYPASS, POSITIVE HOT WATER SHUT-OFF, DIAL THERMOMETER C/W

ETS AND FACEPLATE, 51mm FEMALE OUTLET FOR DRAIN CONNECTION, BARREL FABRICATED OF SEAL, DOW-CORNING SILICONE COMPOUND #111, FDA LISTED FOR USE IN POTABLE WATER

03 mm HIGH DEEP, COUNTER-MOUNTED, BACKLEDGE, GRADE 18-10 20 GA. TYPE 302 STAINLESS POLISHED VALVE, CENTER HOLE ONLY, BRASS BODY, 1/4 TURN WASHERLESS CERAMIC DISC VALVE, DWN SPRAY WITH ADJUSTABLE SPRAY PATTERN. MCGUIRE #LFBV1760 FAUCET SUPPLIES, MCGUIRE

LWATER MIXING VALVE. CHICAGO FAUCETS #626-E29VPABCP-E12VP PEDAL OPERATED FAUCET, DECK FLANGE, 133mm PROJECTION RIGID/SWING GOOSENECK SPOUT, WITH AERATOR OUTLET. ELOW DECK MECHANICAL MIXING VALVE, BRONZE BODY, TEMPERATURE ADJUSTING DIAL, 10mm ATIC RESET WHEN TEMPERATURE EXCEEDS 48.8°C INTEGRAL CHECKS. PROVIDE TEE, ADAPTERS NITH SLIP NUT. 38mm SIZE, BOX FLANGE AND SEAMLESS TUBULAR WALL BEND.



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Notes

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А	ISSUED FOR 75% CLIENT REVIEW	JPH	BH	2019.01.28
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Client/Project

GOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

RED DEER, ALBERTA

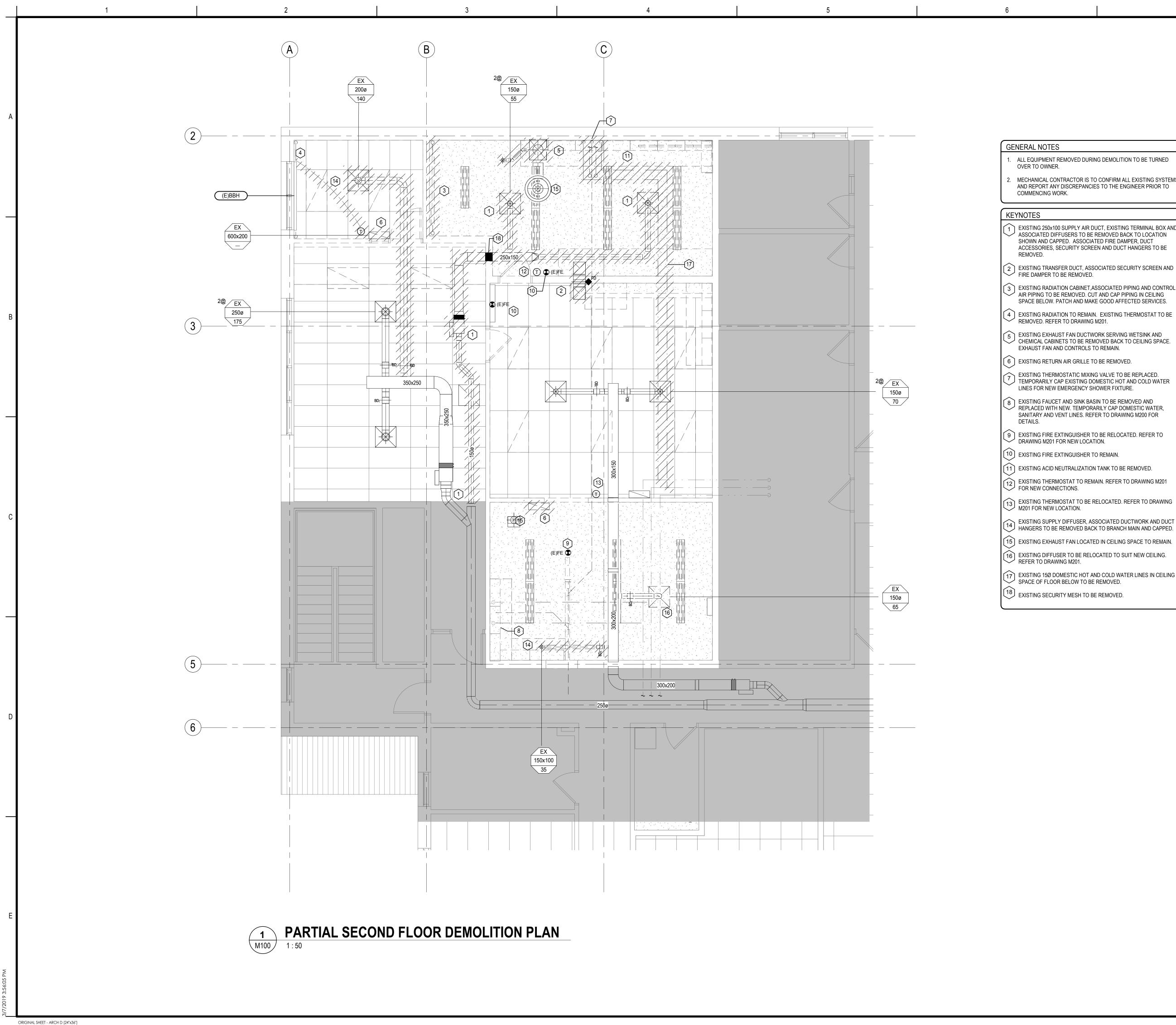
Title MECHANICAL DRAWING LIST, LEGEND & SCHEDULES

Project No. Scale 144211605 As indicated Revision Drawing No.

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Sheet 1 of 8

В





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Client/Project UGOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

RED DEER, ALBERTA

Title PARTIAL SECOND FLOOR DEMOLITION PLAN

Project No. Scale 144211605 As indicated Drawing No.

Revision

Sheet 2of8 **M100**

ALL EQUIPMENT REMOVED DURING DEMOLITION TO BE TURNED OVER TO OWNER.

MECHANICAL CONTRACTOR IS TO CONFIRM ALL EXISTING SYSTEMS AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO COMMENCING WORK.

EXISTING 250x100 SUPPLY AIR DUCT, EXISTING TERMINAL BOX AND ASSOCIATED DIFFUSERS TO BE REMOVED BACK TO LOCATION SHOWN AND CAPPED. ASSOCIATED FIRE DAMPER, DUCT ACCESSORIES, SECURITY SCREEN AND DUCT HANGERS TO BE

2 EXISTING TRANSFER DUCT, ASSOCIATED SECURITY SCREEN AND FIRE DAMPER TO BE REMOVED.

3 EXISTING RADIATION CABINET, ASSOCIATED PIPING AND CONTROL AIR PIPING TO BE REMOVED. CUT AND CAP PIPING IN CEILING SPACE BELOW. PATCH AND MAKE GOOD AFFECTED SERVICES.

4 EXISTING RADIATION TO REMAIN. EXISTING THERMOSTAT TO BE REMOVED. REFER TO DRAWING M201.

5 EXISTING EXHAUST FAN DUCTWORK SERVING WETSINK AND CHEMICAL CABINETS TO BE REMOVED BACK TO CEILING SPACE. EXHAUST FAN AND CONTROLS TO REMAIN.

EXISTING THERMOSTATIC MIXING VALVE TO BE REPLACED. TEMPORARILY CAP EXISTING DOMESTIC HOT AND COLD WATER LINES FOR NEW EMERGENCY SHOWER FIXTURE.

8 EXISTING FAUCET AND SINK BASIN TO BE REMOVED AND REPLACED WITH NEW. TEMPORARILY CAP DOMESTIC WATER, SANITARY AND VENT LINES. REFER TO DRAWING M200 FOR

9 EXISTING FIRE EXTINGUISHER TO BE RELOCATED. REFER TO DRAWING M201 FOR NEW LOCATION.

(10) EXISTING FIRE EXTINGUISHER TO REMAIN.

11 EXISTING ACID NEUTRALIZATION TANK TO BE REMOVED. EXISTING THERMOSTAT TO REMAIN. REFER TO DRAWING M201

FOR NEW CONNECTIONS.

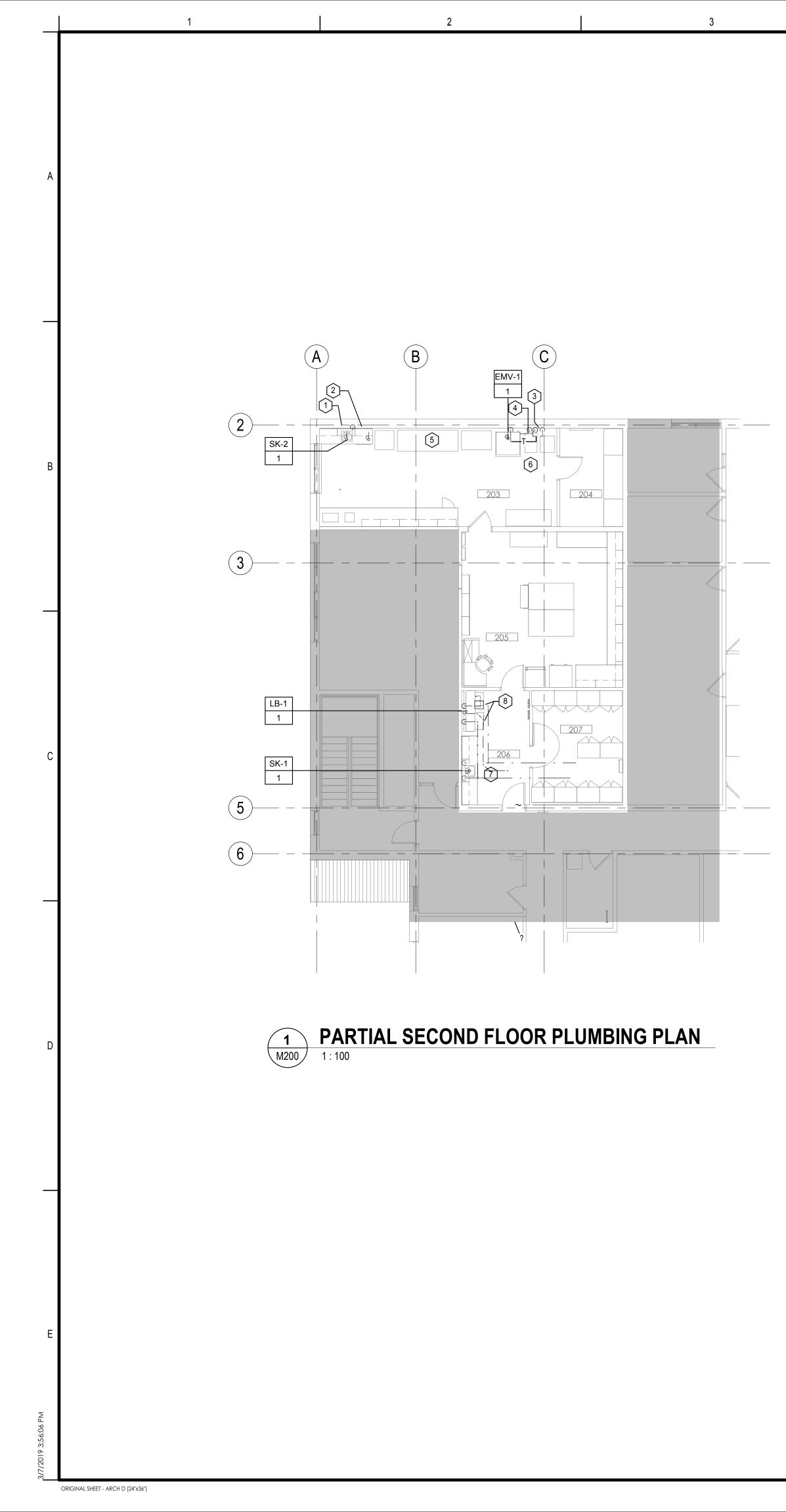
M201 FOR NEW LOCATION.

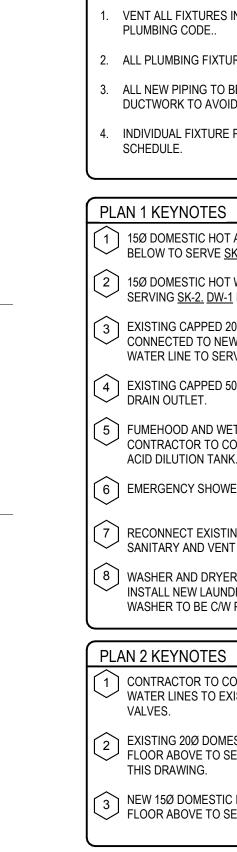
EXISTING SUPPLY DIFFUSER, ASSOCIATED DUCTWORK AND DUCT HANGERS TO BE REMOVED BACK TO BRANCH MAIN AND CAPPED.

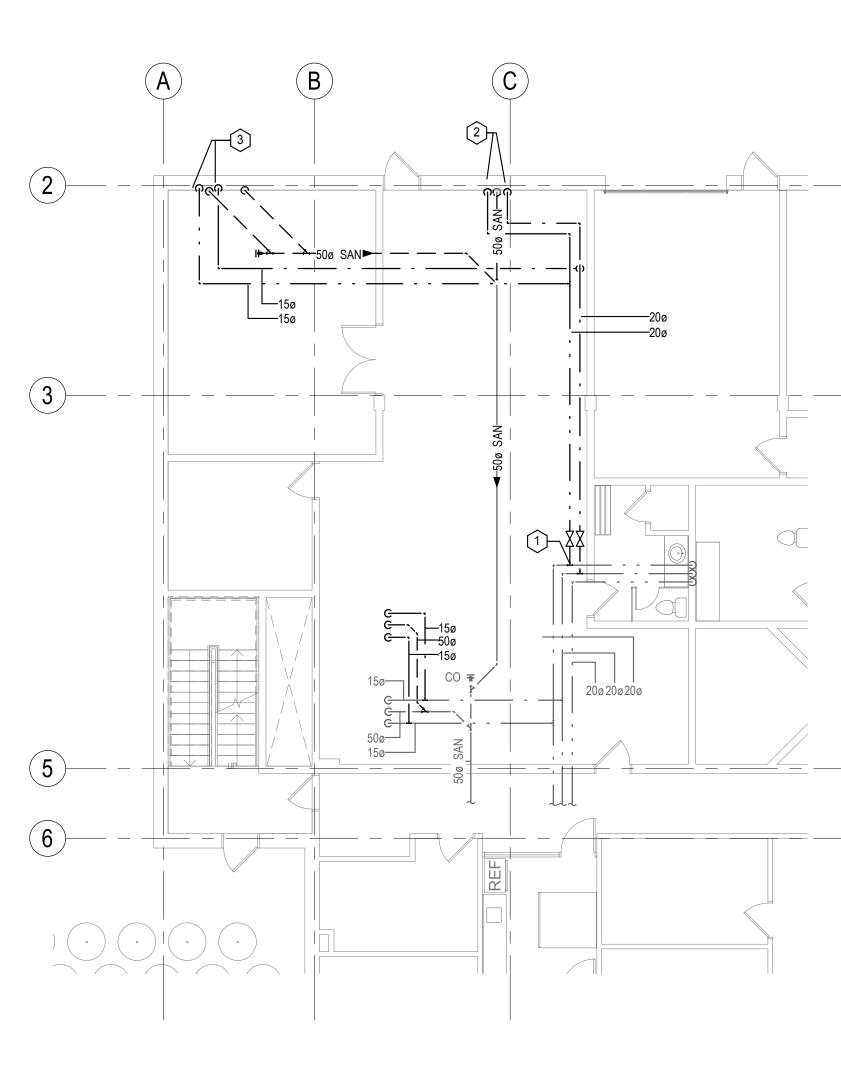
[15] EXISTING EXHAUST FAN LOCATED IN CEILING SPACE TO REMAIN. 16 EXISTING DIFFUSER TO BE RELOCATED TO SUIT NEW CEILING.

17 EXISTING 15Ø DOMESTIC HOT AND COLD WATER LINES IN CEILING SPACE OF FLOOR BELOW TO BE REMOVED.

(18) EXISTING SECURITY MESH TO BE REMOVED.









GENERAL NOTES

VENT ALL FIXTURES IN ACCORDANCE WITH THE NATIONAL

2. ALL PLUMBING FIXTURES TO HAVE ISOLATION VALVES.

ALL NEW PIPING TO BE COORDINATED WITH NEW AND EXISTING DUCTWORK TO AVOID CONFLICTS.

INDIVIDUAL FIXTURE PIPE SIZES AS PER PLUMBING FIXTURE

1 15Ø DOMESTIC HOT AND COLD WATER FROM CEILING SPACE BELOW TO SERVE <u>SK-2</u>.

2 15Ø DOMESTIC HOT WATER SERVING <u>DW-1</u>, BRANCH OFF RISER SERVING <u>SK-2. DW-1</u> DRAIN LINE TO CONNECT TO SK-2 DRAIN.

3 EXISTING CAPPED 20Ø DOMESTIC HOT AND COLD WATER TO BE CONNECTED TO NEW THERMOSTATIC VALVE. NEW 25Ø TEMPERED WATER LINE TO SERVE EMERGENCY SHOWER <u>SH-1</u>.

4 EXISTING CAPPED 50Ø SANITARY TO BE CONNECTED TO <u>SH-1</u> DRAIN OUTLET.

5 FUMEHOOD AND WETSINK TO BE SUPPLIED BY OWNER. CONTRACTOR TO CONNECT SANITARY FROM WETSINK TO NEW ACID DILUTION TANK.

6 EMERGENCY SHOWER TO BE SUPPLIED BY OWNER.

7 RECONNECT EXISTING 15Ø DOMESTIC HOT AND COLD WATER, SANITARY AND VENT LINES TO SERVE <u>SK-1.</u>

8 WASHER AND DRYER TO BE SUPPLIED BY OWNER. PROVIDE AND INSTALL NEW LAUNDRY BOX LB-1. SANITARY STANDPIPE SERVING WASHER TO BE C/W P-TRAP.

1 CONTRACTOR TO CONNECT NEW 20Ø DOMESTIC HOT AND COLD WATER LINES TO EXISTING AT LOCATION SHOWN C/W ISOLATION

2 EXISTING 20Ø DOMESTIC HOT AND COLD WATER RISING UP TO FLOOR ABOVE TO SERVE EMERGENCY SHOWER. SEE PLAN 1 ON



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Notes

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Client/Project

GOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

RED DEER, ALBERTA

Title PARTIAL SECOND FLOOR PLUMBING PLAN

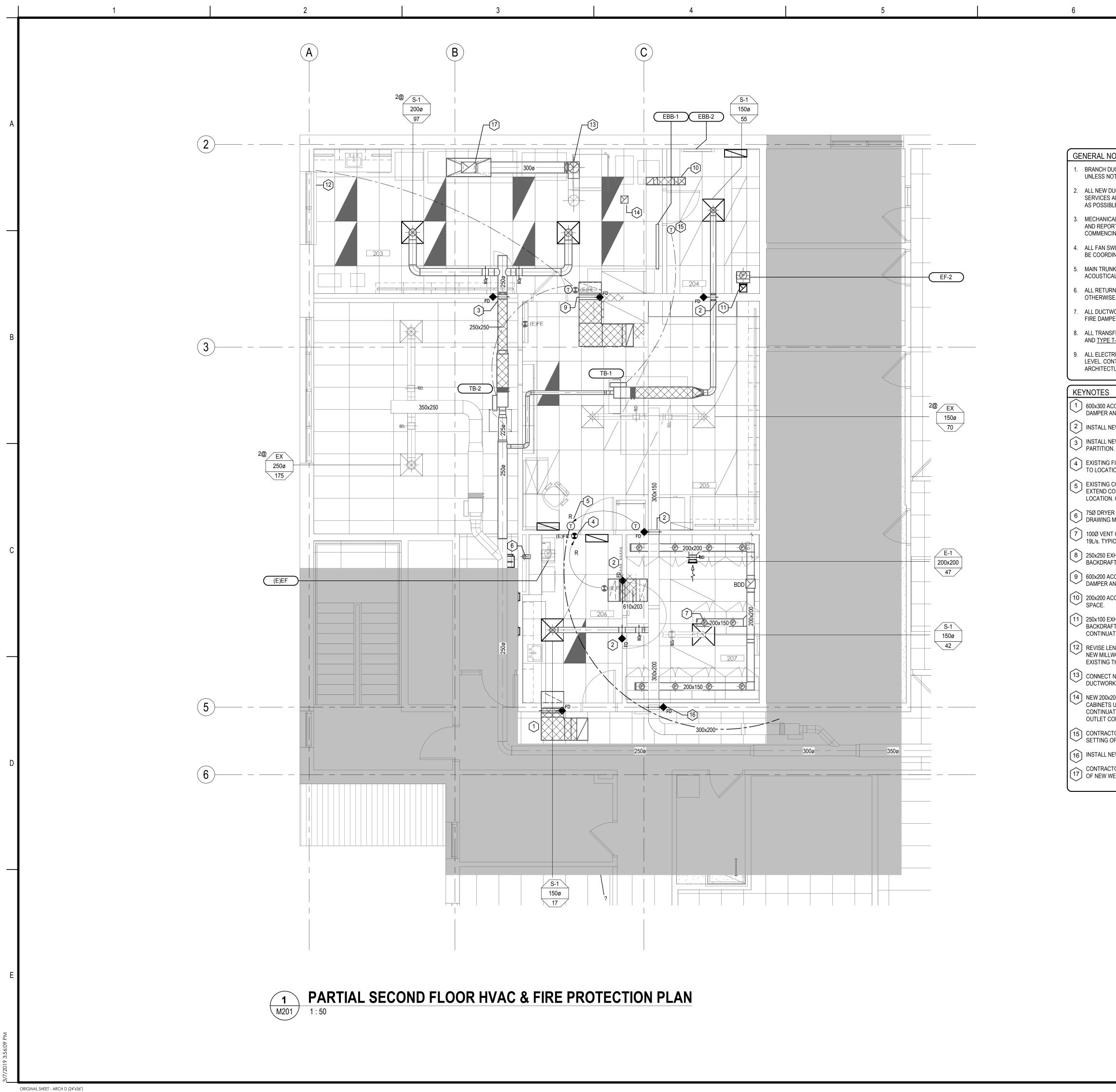
Project No. Scale 144211605 As indicated Drawing No.

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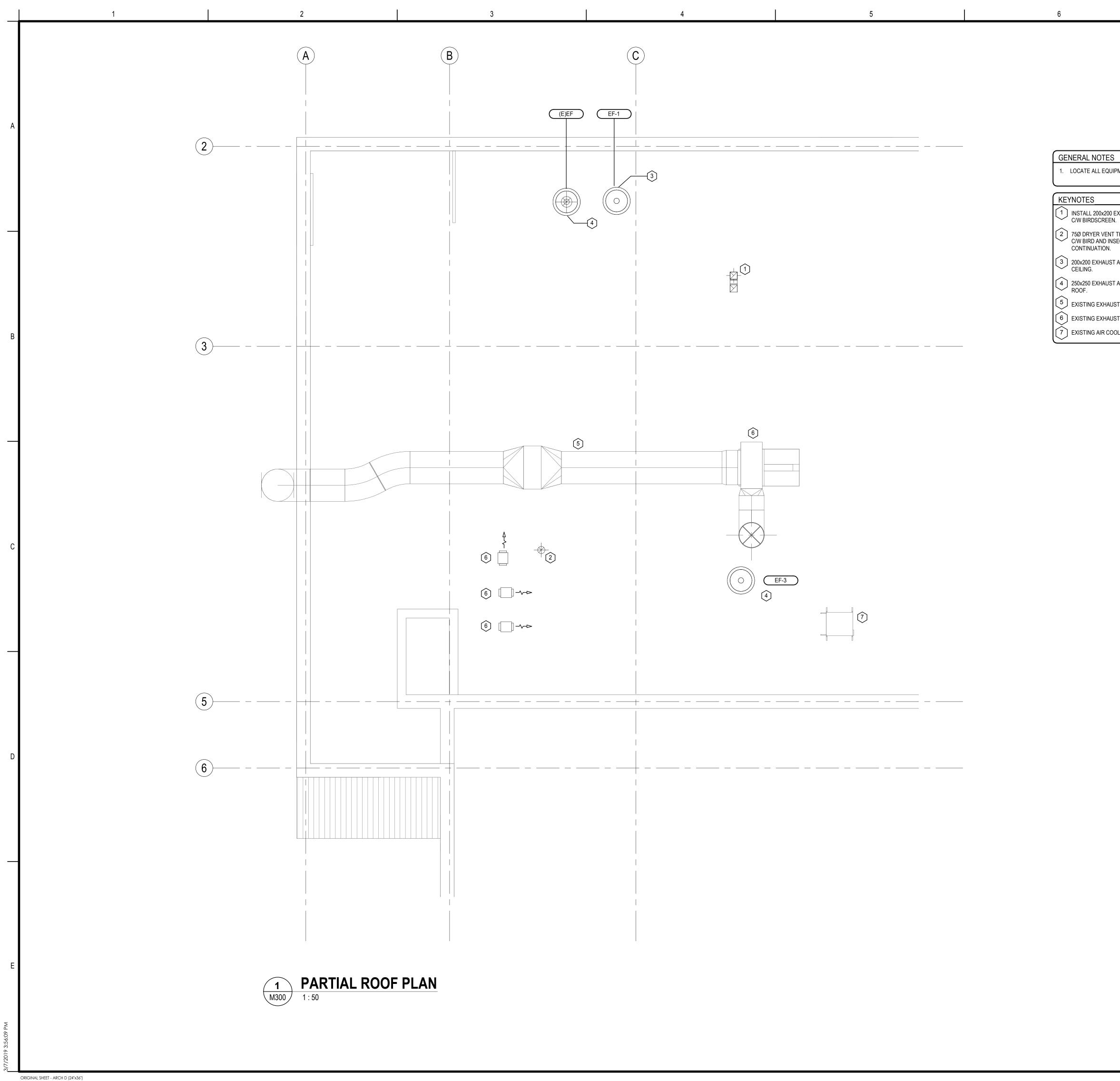
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NOTES DUCTING TO DIFFUSER TO MATCH DIFFUSER NECK SIZE	reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that
OTED OTHERWISE. DUCTWORK TO BE COORDINATED WITH EXISTING & AND STRUCTURE. INSTALL ALL NEW SERVICES AS TIGHT BLE TO UNDERSIDE OF STRUCTURE.	authorized by Stantec is forbidden.
CAL CONTRACTOR IS TO CONFIRM ALL EXISTING SYSTEMS ORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CING WORK.	
WITCHES TO BE INSTALLED NEAR LIGHT SWITCHES AND DINATED WITH ELECTRICAL.	
NK DUCTS DOWNSTREAM OF TERMINAL BOXES TO BE CALLY INSULATED.	Legend
RN GRILLES TO BE 600x150, <u>TYPE R-1</u> UNLESS NOTED SE.	
WORK PASSING THROUGH FIRE-RATED WALLS TO BE C/W PER.	
SFER AIR ELBOWS SHALL BE C/W ACOUSTIC INSULATION T-1 GRILLES. GRILLES TO MATCH DUCT SIZE.	Area Not In Contract (N.I.C.)
TRIC BASEBOARD HEATERS ARE MOUNTED AT FLOOR DNTRACTOR TO COORDINATE WITH FURNITURE AND FINAL	
CTURAL LAYOUT.	
COUSTICALLY-LINED TRANSFER AIR ELBOW C/W FIRE AND SECURITY SCREEN AT WALL PARTITION.	Notes
NEW FIRE DAMPER AT WALL PARTITION. NEW FIRE DAMPER AND SECURITY SCREEN AT WALL	
N. FIRE EXTINGUISHER TO BE MOUNTED ON WALL BRACKET	
TION SHOWN. COORDINATE WITH ARCHITECTURE.	
CONTROL AIR PIPING AS NECESSARY TO SUIT NEW N. COORDINATE WITH ARCHITECTURE AND FURNITURE.	
ER VENT UP TO ROOF C/W LINT TRAP. REFER TO 3 M300 FOR CONTINUATION.	
IT CONNECTION C/W BALANCING DAMPER. BALANCE TO PICAL FOR ALL EVIDENCE LOCKERS.	
XHAUST AIR DUCT UP EXHAUST FAN <u>EF-3</u> ON ROOF C/W AFT DAMPER.	
COUSTICALLY-LINED TRANSFER AIR ELBOW C/W FIRE AND SECURITY SCREEN. GRILLE TO MATCH DUCT SIZE.	
COUSTICALLY-LINED TRANSFER AIR DUCT IN CEILING	
XHAUST AIR DUCT UP TO ROOF C/W GRAVITY NFT DAMPER. REFER TO DRAWING M300 FOR ATION.	
ENGTH OF RADIATION CABINET AS NECESSARY TO SUIT WORK. CONNECT NEW CONTROL AIR PIPING FROM THERMOSTAT TO EXISTING CONTROL VALVE.	
T NEW EXHAUST DUCTWORK FROM WETSINK TO EXISTING RK IN CEILING SPACE.	
200 EXHAUST AIR DUCT SERVING EXISTING CHEMICAL S UP TO <u>EF-1</u> . REFER TO DRAWING M300 FOR ATION. CONTRACTOR TO VERIFY SIZE OF EXHAUST CONNECTION PRIOR TO FABRICATION OF DUCTWORK.	
CTOR TO PROGRAM THERMOSTAT WITH DEADBAND OF 21 - 24°C (70 - 75°F).	BISSUED FOR TENDERJPHBH2019.03.08AISSUED FOR 75% CLIENT REVIEWJPHBH2019.01.28
NEW FIRE DAMPER IN EXISTING SUPPLY DUCT.	Revision By Appd YYYY.MM.DD
CTOR TO VERIFY SIZE OF EXHAUST OUTLET CONNECTION NETSINK PRIOR TO FABRICATION OF DUCTWORK.	Permit-Seal
)	OTAL ENGINE STANTEC CONSULTING LTD. Signature
	\mathbb{H} \mathbb{H} \mathbb{D} Date \mathbb{D} \mathbb{D} \mathbb{D} \mathbb{D} \mathbb{D} \mathbb{D} \mathbb{D} \mathbb{D} \mathbb{D}
	The Association of Professiona Engineers and Geoscientists of Alberta
	Client/Project
	GOVERNMENT OF CANADA
	EXISTING BUILDING RENOVATION
	RED DEER, ALBERTA
	Title PARTIAL SECOND FLOOR HVAC & FIRE PROTECTION
	PLAN Project No. Scale
	144211605 As indicated
	Revision Drawing No.
	Sheet M201
	4 of 8



1. LOCATE ALL EQUIPMENT 3m FROM ROOF EDGE FOR SERVICE.

1 INSTALL 200x200 EXHAUST GOOSENECK FOR EXHAUST FAN EF-2

2 75Ø DRYER VENT THROUGH ROOF TO TERMINATE IN GOOSENECK C/W BIRD AND INSECT SCREEN. SEE DRAWING M201 FOR

3 200x200 EXHAUST AIR FROM BELOW C/W BACKDRAFT DAMPER AT CEILING.

4 250x250 EXHAUST AIR FROM BELOW C/W BACKDRAFT DAMPER AT ROOF.

5 EXISTING EXHAUST DUCTWORK TO REMAIN.

6 EXISTING EXHAUST FANS TO REMAIN.

7 EXISTING AIR COOLED CHILLER TO REMAIN.



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Legend	

Area Not In Contract (N.I.C.)

Notes

B ISSUE	D FOR TENDER	JPH	BH	2019.03.08
A ISSUE	D FOR 75% CLIENT REVIEW	JPH	BH	2019.01.28
Revisior	1	By	Appd	YYYY.MM.DD

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PERMIT TO PRACTICE STANTEC CONSULTING LTD. inature J/ MAR 8, 2019 **PERMIT NUMBER: P 0258** The Association of Professional Engineers and Geoscientists of Alberta

Client/Project GOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

RED DEER, ALBERTA

Title PARTIAL ROOF PLAN

Project No.

Scale As indicated Drawing No.

В

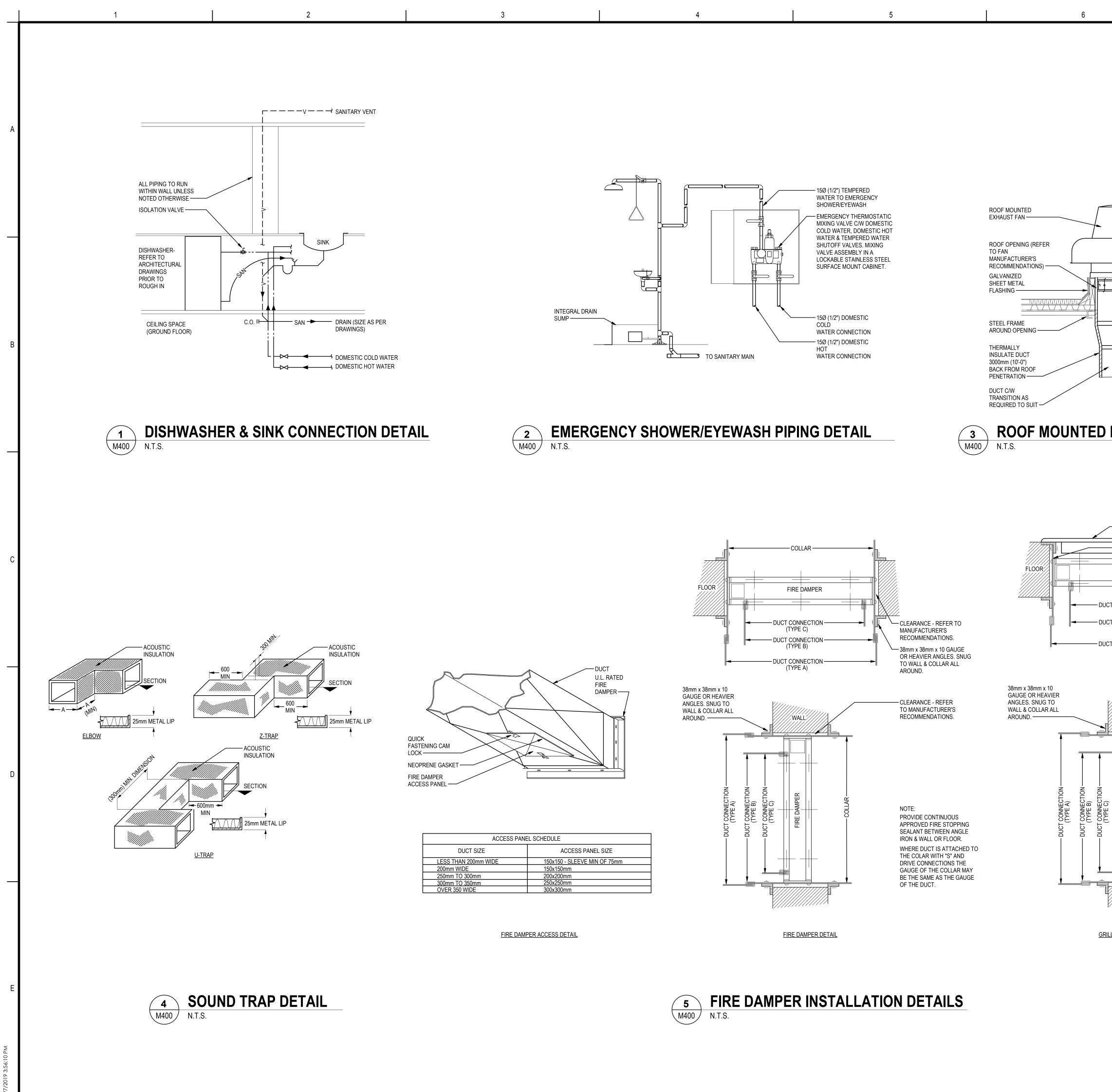
Revision

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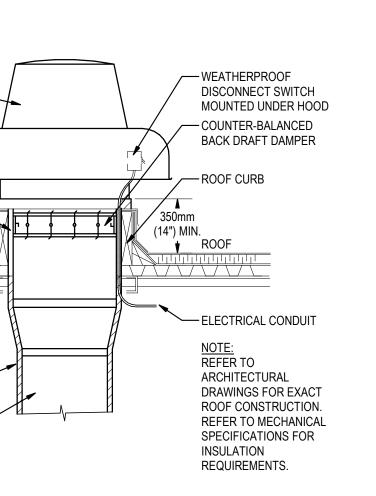
M300

Sheet

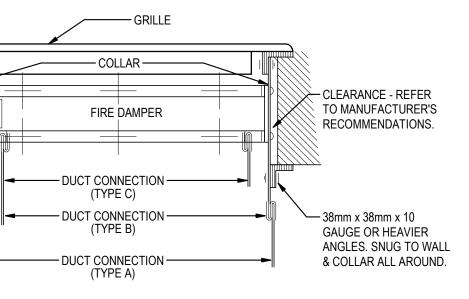
5 of 8

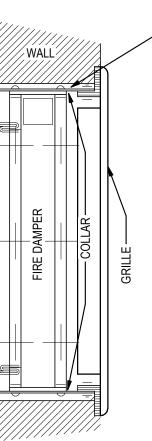


ORIGINAL SHEET - ARCH D (24"x36")



ROOF MOUNTED EXHAUST FAN DETAIL





- CLEARANCE - REFER TO MANUFACTURER'S RECOMMENDATIONS.

NOTE: **REFER TO MANUFACTURER'S** INSTALLATION DETAILS FOR VARIANCES IN DAMPER DESIGN & INSTALLATION. WHERE DUCT IS ATTACHED TO

THE COLAR WITH "S" AND DRIVE CONNECTIONS THE GAUGE OF THE COLLAR MAY BE THE SAME AS THE GAUGE OF THE DUCT.

GRILLE WITH FIRE DAMPER DETAIL



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 2019.01.28

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Client/Project⁰ GOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

RED DEER, ALBERTA

Title MECHANICAL DETAILS

Project No.

144211605

Scale N.T.S.

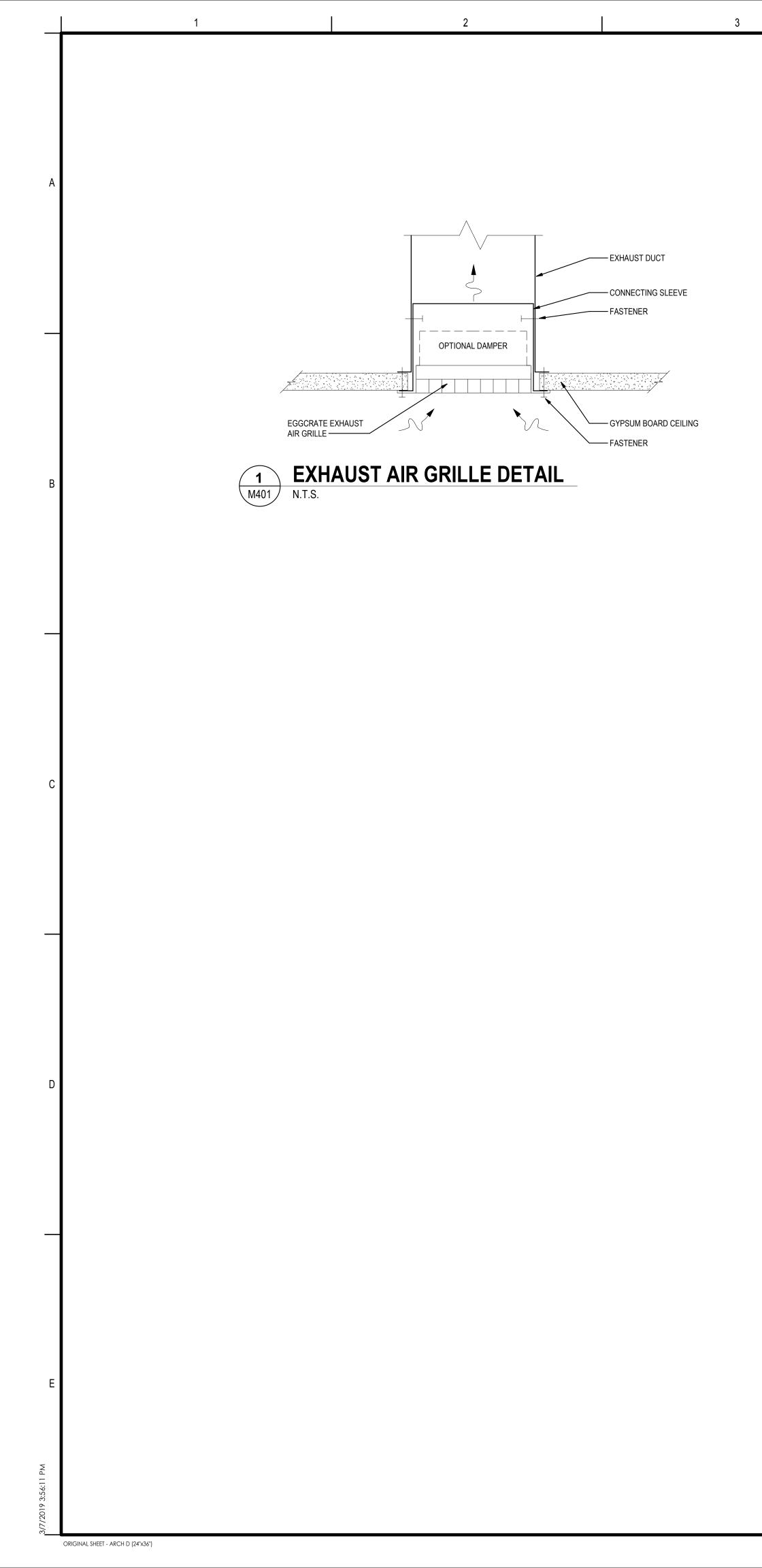
Revision

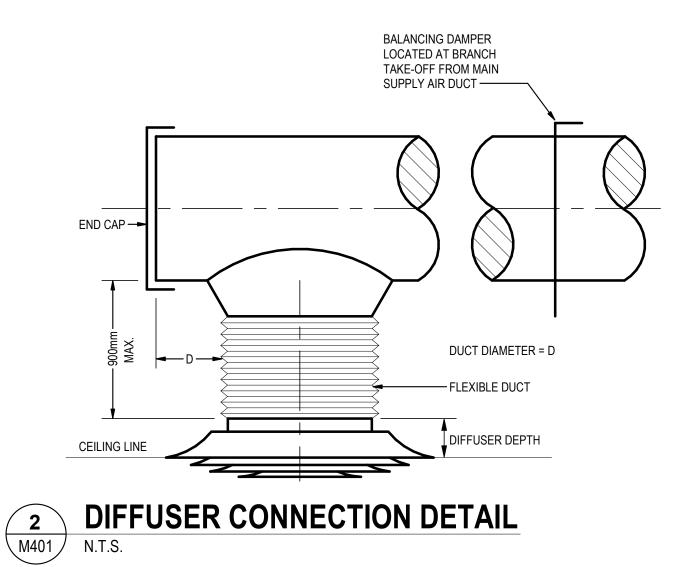
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Sheet

Drawing No.

M400







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EXISTING BUILDING RENOVATION

RED DEER, ALBERTA

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 Project No.
 Scale

 144211605
 N.T.S.

N.T.S. Drawing No.

В

Sheet 7 of 8

Revision



	 PRIOR TO SUBMITTING THE TENDER PRICE, REVIEW WITH OWNER WITH THE LIST OF EQUIPMENT WHICH ITEMS ARE AVAILABLE FOR USE ON THIS PROJECT. 	2. PRIOR TO STARTING EQUIPMENT OR SYSTEMS, SECURE AN OPERATION, AND STARTING INSTRUCTIONS. READ IN CONJU	
INTENT THE INTENT OF THIS SPECIFICATION AND DRAWINGS IS TO PROVIDE A COMPLETE AND FULLY OPERATING	 ALL RE-USED EQUIPMENT SHALL BE FUNCTIONAL AS IF NEW, AND SHALL BE COVERED BY STANDARD ONE (1) YEAR WARRANTY. 	2.3 SYSTEM BALANCING	
MECHANICAL LAYOUT IN COMPLETE ACCORD WITH APPLICABLE CODES INCLUDING ALBERTA BUILDING CODE AND CITY BYLAWS. THE MECHANICAL CONTRACTOR SHALL MAKE PROVISIONS FOR LABOR, MATERIAL, AND 1	I.10 RECORD DRAWINGS	1. WORK SPECIFIED IN THIS SECTION SHALL BE PERFORMED E THIS TYPE OF WORK AND SHALL BE EMPLOYED BY THE MED	CHANICAL CONTRACTOR. BALANCING OF BOTH AIR
EQUIPMENT NECESSARY TO COMPLETE THE MECHANICAL WORK. 1 THE MECHANICAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH OTHER DRAWINGS AND SPECIFICATIONS,	 KEEP ON SITE AN EXTRA SET OF WHITE PRINTS AND SPECIFICATIONS, RECORDING CHANGES AND DEVIATIONS DAILY. 	AND WATER SYSTEMS SHALL BE PERFORMED BY THE SAME 2. BALANCING PROCEDURES SHALL BE IN ACCORDANCE WITH	
AS ISSUED FOR THIS PROJECT. THE DRAWINGS AND SPECIFICATIONS INDICATE INTENT ONLY. ANY DISCREPANCIES OR OMISSIONS SHALL BE REPORTED TO THE ENGINEER PRIOR TO TENDER CLOSE.	2. UPON COMPLETION OF WORK, SUBMIT RECORD DRAWINGS TO THE ENGINEER. THESE MUST BE SUBMITTED	3. BALANCE AIR HANDLING UNITS, ROOFTOP UNITS, TERMINAL	LUNITS, EXHAUST FANS, AND AIR OUTLETS TO AIR
MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE LANDLORD FOR SPECIFIC INFORMATION REGARDING CONNECTIONS AND ROUGH-INS.	TWO (2) WEEKS AFTER SUBSTANTIAL COMPLETION. FAILURE TO SUBMIT DRAWINGS WILL RESULT IN THE WORK BEING DONE BY THE OWNER AND THE COST DEDUCTED FROM FINAL PAYMENT.	QUANTITIES INDICATED ON THE DRAWINGS AND IN THIS SPE4. SUBMIT TWO (2) COPIES OF THE REPORT TO ENGINEER WIT	THIN TWO (2) WEEKS AFTER SEMI FINAL INSPECTION
DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY TO EACH OTHER AND WHAT IS CALLED FOR BY ONE IS 3 TO BE BINDING AS IF CALLED FOR BY BOTH. SHOULD ANY DISCREPANCY APPEAR BETWEEN DRAWINGS AND SPECIFICATIONS WHICH LEAVES DOUBT AS TO THE TRUE INTENT AND MEANING. OBTAIN A RULING FROM THE	3. ONE (1) APPROVED "AS-BUILT" WILL BE FORWARDED TO THE OWNER. INCLUDE COST OF \$500.00 FOR TRANSFER OF "AS-BUILT" INFORMATION TO CAD AND FORWARDING OF RECORD INFORMATION BY THE CONSULTANT	AND/OR ONE (1) WEEK BEFORE FINAL INSPECTION. FAILURE TIME WILL RESULT IN THE WORK BEING DONE BY THE OWNE PAYMENT.	TO SUBMIT THE REPORT WITHIN THE SPECIFIED
SPECIFICATIONS WHICH LEAVES DOUBT AS TO THE TRUE INTENT AND MEANING, OBTAIN A RULING FROM THE ENGINEER TEN (10) DAYS BEFORE SUBMITTING TENDER. FAILING THIS, ALLOW FOR MOST EXPENSIVE ALTERNATIVE. 1	CONSULTANT.	5. ALL BALANCING TO BE DONE BY AN APPROVED BALANCING	CONTRACTOR (ABC).
MECHANICAL DRAWINGS INDICATE GENERAL LOCATION AND ROUTE TO BE FOLLOWED BY MECHANICAL 1 SYSTEMS AND DO NOT SHOW ALL STRUCTURAL AND ELECTRICAL DETAILS. IN SOME CASES, MECHANICAL	 ONE WEEK PRIOR TO ACCEPTANCE OF THE PROJECT, PROVIDE THREE (3) 215mm X 280mm CAPACITY, EXPANDING SPINE CATALOGUE BINDERS WITH GREEN VINYL COVERS WITH PRINTED DESCRIPTION IN FRONT 	 BALANCING SHALL BE PERFORMED TO THE FOLLOWING ACC AIR - TERMINAL OUTLETS ±10% 	
SYSTEMS ARE SHOWN IN DIAGRAMMATIC OR SCHEMATIC. MECHANICAL SYSTEMS INSTALLED SHALL PROVIDE A COMPLETE OPERATING JOB. ALL PIPING, DUCTWORK, AND EQUIPMENT SHALL BE INSTALLED IN A NEAT AND	AND SPINE DESCRIPTION SHALL INCLUDE: OPERATING AND MAINTENANCE MANUAL - PROJECT NAME AND LOCATION - MECHANICAL CONSULTANT - MECHANICAL CONTRACTOR - DATE.	AIR EQUIPMENT ±5%	
WORKMANLIKE MANNER TO CONSERVE HEADROOM, FURRING SPACES, ETC. 2 LIABILITY	2. INDEX BINDER ACCORDING TO THE FOLLOWING SYSTEM:	 DURING A 90 DAY PERIOD AFTER COMPLETION OF BALANCIN RESETTING OF OUTLETS OR FANS AS NOTED IN BALANCING BALANCING REPORT, THE BALANCING WILL BE REDONE WIT 	GREPORT. IF RECHECK PROVES INADEQUACIES WITH
ASSUME RESPONSIBILITY FOR LAYOUT WORK AND FOR DAMAGE CAUSED TO THE OWNER, TENANT, OR OTHERS.	2.1. TAB- <u>1.0 MECHANICAL SYSTEMS</u> : TITLE PAGE WITH CLEAR PLASTIC PROTECTIVE COVER.	SUBMITTED. BALANCING AGENCY WILL ALSO BE LIABLE FOR REBALANCE BE REQUIRED.	
PROTECT FINISHED AND UNFINISHED WORK FROM DAMAGE.	2.2. TAB- <u>1.1 LIST OF MECHANICAL DRAWINGS</u> :	8. BALANCING AGENCY IS TO CONTACT BUILDING OWNER, SHO BALANCE SYSTEM. DO NOT SUBMIT REPORT NOTING BOX IS	
TAKE RESPONSIBILITY FOR CONDITION OF MATERIALS AND EQUIPMENT SUPPLIED AND PROTECT UNTIL WORK IS COMPLETED AND ACCEPTED.	2.3. TAB- <u>1.2 SYSTEM DESCRIPTIONS</u> : SYSTEMS. INCLUDE DETAILED SYSTEM DESCRIPTION, WITH INDIVIDUAL COMPONENTS DESCRIBED,	REPORTS WILL BE REJECTED.	
CERTIFICATES	LOCATION OF THERMOSTATS, CONTROLLERS OR OPERATING VARIANCES, AND CONTROLLER	PART 3 - VENTILATION 3.1 GENERAL	
GIVE NOTICES, OBTAIN PERMITS, AND PAY FEES SO WORK SPECIFIED MAY BE CARRIED OUT. FURNISH CERTIFICATES IF REQUESTED, AS EVIDENCE THAT WORK CONFORMS WITH LAWS AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION	2.4. TAB- <u>1.3 OPERATING DIVISION</u> :	1. DUCTWORK SHALL BE GALVANIZED STEEL, LOCK FORMING	
AUTHORITIES HAVING JURISDICTION. ARRANGE FOR ALL INSPECTIONS REQUIRED FOR MECHANICAL.	PROVIDE COMPLETE AND DETAILED OPERATION OF MAJOR COMPONENTS. PROVIDE INFORMATION ON LOCATIONS OF COMPONENTS, HOW TO ENERGIZE SWITCHES AND CONTROLS, HOW COMPONENTS INTERFACE WITH OTHER COMPONENT, OPERATION OF CONTROLS INCLUDING OPERATIONAL	DUCT MANUAL AND ASHRAE HANDBOOKS. DUCTWORK SHAL CONFORM TO APPLICABLE CODES.	
NOTIFY OWNER PRIOR TO COMMENCEMENT OF WORK. OBTAIN SECURITY CLEARANCE AND WORK	SEQUENCE, OPERATIONAL CHANGES FOR SUMMER OR WINTER OPERATION, HOW TO ACCOMPLISH THE CHANGEOVER, COMPLETE TROUBLE SHOOTING SEQUENCE, EMERGENCY OPERATING SEQUENCES IN	2. SEALANTS AND GASKETING TO BE WATER RESISTANT, FIRE MATERIALS. NO DUCT TAPE SHALL BE ALLOWED FOR SEALIN	
AUTHORIZATION PERMITS FROM OWNER] FOR ALL WORKERS ENGAGED ON THIS PROJECT. MECHANICAL CONTRACTOR TO OBTAIN WORK AUTHORIZATION FROM THE LANDLORD.	EVENT OF MAJOR COMPONENT FAILURE, AND SAFEGUARDS TO INDICATE IF EQUIPMENT GOES OFF- LINE.	3. PRIOR TO FABRICATION OF DUCTWORK, CHECK ALL CEILING OTHER TRADES.	3 SPACES AND HEIGHTS AND CONFLICTIONS WITH
ANY INTERRUPTION OF THE MECHANICAL SERVICES TO ANY PART OF THE BUILDING SHALL BE PERFORMED AT A TIME AGREEABLE TO THE OWNER. MAKE ALL NECESSARY ARRANGEMENTS WITH THOSE CONCERNED AND INCLUDE FOR ANY OVERTIME REQUIRED TO ENSURE THERE IS NO INTERRUPTION OF SERVICES. ALL OVERTIME	2.5. TAB- <u>1.4 MAINTENANCE AND LUBRICATION DIVISION</u> : PROVIDE GENERAL MAINTENANCE AND LUBRICATION SCHEDULE FOR MAJOR COMPONENTS TO INCLUDE DAILY, WEEKLY, MONTHLY, SEMI-ANNUAL, AND YEARLY CHECKS AND TASKS. EXPLAIN HOW TO	 DUCT SIZES: INSIDE CLEAR DIMENSIONS. FOR ACOUSTICALL MAINTAIN SIZES INSIDE DUCTS. 	LY LINED OR INTERNALLY INSULATED DUCTS
WORK SHALL BE CARRIED OUT WITHOUT ADDITIONAL COSTS TO THE OWNERS.	EXECUTE MAINTENANCE TASKS REQUIRED FOR TYPICAL EQUIPMENT SUCH AS BEARINGS, DRIVES, MOTORS, AND FILTERS. COMPILE THIS INFORMATION FOR EQUIPMENT SEPARATE FROM SHOP	 MAIN FAIN SIZES INSIDE DUCTS. DUCT HANGERS AND SPACING SHALL CONFORM TO SMACN. 	A MANUALS.
OBTAIN APPROVAL OF THE OWNER PRIOR TO CORE DRILLING THE FLOOR SLAB AND WALLS. CAULK AND SEAL SPACE BETWEEN PIPE AND SLEEVE WITH APPROVED "FIRE BARRIER" INSULATION. PROVIDE X-RAY OF CORE AREA AFTER WORKING HOURS. CUTTING AND CHIPPING MUST BE DONE AFTER WORKING HOURS.	DRAWINGS. 2.6. TAB- <u>1.5 LIST OF EQUIPMENT SUPPLIERS AND CONTRACTORS</u> :	6. FIRE DAMPERS SHALL BE ULC LISTED AND CONSTRUCTED IN DAMPERS." FUSIBLE LINKS SHALL BE CONSTRUCTED TO ULC	
COORDINATION OF WORK	PROVIDE LIST OF EQUIPMENT SUPPLIERS AND CONTRACTORS, INCLUDING ADDRESS AND TELEPHONE NUMBER. OUTLINE PROCEDURES FOR PURCHASING PARTS AND EQUIPMENT.	7. PROVIDE BALANCING DAMPERS WHERE INDICATED ON DRA	WINGS AND AT POINTS ON LOW PRESSURE SUPPLY,
COOPERATE AND COORDINATE WITH OTHER TRADES ON THE PROJECT.	2.7. TAB- <u>CERTIFICATION (2.0, 2.1,)</u> : INCLUDE COPY OF TEST DATA ON DEGREASING AND FLUSHING OF HEATING SYSTEM, ANALYSIS OF	RETURN, AND EXHAUST DUCTS WHERE BRANCHES ARE TAK8. INSULATE DUCTWORK WITH 25mm FLEXIBLE ACOUSTICAL IN	
REFERENCE ELECTRICAL, MECHANICAL, AND ARCHITECTURAL DRAWINGS WHEN SETTING OUT WORK. CONSULT WITH RESPECTIVE DIVISIONS IN SETTING OUT LOCATIONS FOR DUCTWORK, EQUIPMENT, AND PIPING,	SYSTEM WATER TAKEN AT TIME SYSTEM WAS PUT INTO OPERATION, HYDROSTATIC OR AIR TESTS PERFORMED ON PIPING SYSTEMS, EQUIPMENT ALIGNMENT CERTIFICATES, COPY OF BALANCING DATA	9. ALL NEW DUCTWORK TO BE COMPLETE WITH 25mm OF THEF	
SO THAT CONFLICTS ARE AVOIDED AND SYMMETRICAL EVEN SPACING IS MAINTAINED. PROVIDE COORDINATION OF DRAWINGS SHOWING THE WORK OF ALL TRADES AND CONTRACTORS INVOLVED, IN AREAS OF POTENTIAL CONFLICT OR CONGESTION.	FOR AIR AND WATER SYSTEMS, COPY OF VALVE TAG IDENTIFICATION AND PIPE COLOR CODE, INSPECTION APPROVAL CERTIFICATES FOR PLUMBING SYSTEM, BACKFLOW PREVENTION DEVICE INSTALLATION CERTIFICATION SHEETS, HEATING AND VENTILATION SYSTEMS, AND OPERATIONAL	PERMISSION FROM ENGINEER. 10. PROVIDE ADEQUATELY SIZED ACCESS PANELS TO MANUAL	DAMPERS, EQUIPMENT, FIRE DAMPERS. VAI VFS.
WHERE DIMENSIONAL DETAILS ARE REQUIRED, WORK WITH THE APPLICABLE ARCHITECTURAL AND	TESTS ON GAS-FIRED EQUIPMENT.	RADIATION VALVES, AND WATER METERS. 11. PROVIDE RETURN AIR OPENINGS AND/OR INSULATED SOUN	
STRUCTURAL DRAWINGS. FULL SIZE AND DETAILED DRAWINGS SHALL TAKE PRECEDENCE OVER SCALE MEASUREMENTS FROM	2.8. TAB- <u>SHOP DRAWINGS AND MAINTENANCE BULLETINS (3.0, 3.1, ETC.)</u> : PROVIDE MATERIALS RECEIVED IN COMPLIANCE WITH CLAUSE "SHOP DRAWINGS".	SECTION.	
DRAWINGS. 3	3. THE DIVIDER TABS SHALL BE LAMINATED MYLAR PLASTIC AND COLORED ACCORDING TO SECTION. THE COLORING IS AS FOLLOWS: MECHANICAL SYSTEMS - 1.0 - 1.5 ORANGE; CERTIFICATION - 2.0 - 2.4 GREEN; SHOP DRAWINGS & MAINTENANCE - 3.0 - 3.17 YELLOW. PLASTIC TABS WITH TYPEWRITTEN CARD INSERTIONS WILL NOT	12. GENERAL CONTRACTOR TO PROVIDE ACOUSTICAL SEAL AR THROUGH SOUND BAFFLES.	OUND DUCTS AND SOUND TRAPS AT PENETRATION
GIVE LOCATIONS FOR HOLES FOR MECHANICAL EQUIPMENT TO THE G.C. AND PROVIDE SLEEVES REQUIRED FOR	BE ACCEPTED.	13. GENERAL CONTRACTOR TO MODIFY CEILING SYSTEM WHEF DIFFUSERS.	∢E REQUIRED TO ACCOMMODATE GRILLES AND
THE MECHANICAL INSTALLATIONS. 1 BE RESPONSIBLE FOR THE CO-ORDINATION OF CUTTING AND PATCHING OF BUILDING STRUCTURE REQUIRED 1	I.12 OPERATIONAL INSTRUCTION TO OWNER	14. SIZE ROUND DUCTS, INSTALLED IN PLACE OF RECTANGULAR RECTANGULAR AND ROUND DUCTS. NO VARIATION OF DUCT	
BY MECHANICAL WORK UNLESS OTHERWISE INDICATED. REVIEW EXISTING BASE BUILDING STRUCTURAL SYSTEM PRIOR TO COMMENCEMENT OF CORING AND OBTAIN APPROVAL FROM STRUCTURAL CONSULTANT IF	SYSTEMS BY APPROPRIATE SPECIALISTS [AND SHALL ENSURE THAT REQUIRED MANUFACTURER'S REPRESENTATIVES ARE IN ATTENDANCE].	PERMISSION FROM ENGINEER.	
COMFIRM WITH X-RAY, ALL REQUIRED HOLES THROUGH FLOOR. X-RAY USE FOR LOCATING IN-FLOOR REBAR		15. IDENTIFY DUCTWORK AS PER BASE BUILDING STANDARDS.3.2 LOW VELOCITY DUCTWORK	JUNI INW FRIUR TU JUBINITTING TENUER.
AND CONDUIT TO BE DONE AFTER NORMAL WORKING HOURS. TAKE NECESSARY PRECAUTIONS TO PROTECT 1 COMPUTER EQUIPMENT WHEN X-RAYING FLOORS.	 CONTRACTOR TO ADVISE ENGINEER ONE (1) WEEK PRIOR TO CLOSING UP CEILINGS FOR SEMI FINAL INSPECTION. FAILURE TO ADVISE ENGINEER WILL RESULT IN CONTRACTOR REMOVING TILES IN ORDER THAT INSPECTION CAN BE DONE. 	 THE MINIMUM SHEET METAL THICKNESS FOR LOW PRESSUF AND OTHER ACCESSORIES SHALL BE AS FOLLOWS: 	RE DUCTS INCLUDING FITTINGS, ACCESS DOORS,
SEAL ALL OPENINGS AROUND PIPES THAT PENETRATE FLOORS OR FIRE RATED WALLS WITH A FIRE BARRIER MATERIAL EQUAL TO THE RATING OF THE FLOOR OR WALL.	2. ADVISE ENGINEER TWO (2) DAYS PRIOR TO THE DATE FINAL INSPECTION IS DESIRED. ALL SYSTEMS TO BE FULLY	RECTANGULAR DUCTWORK	GAUGE
SHOP DRAWINGS, ALTERNATIVE MATERIALS, AND EQUIPMENT	OPERATIONAL AND ANY DÉFICIENCIES NOTED IN SEMI FINAL INSPECTION SHALL BE COMPLETED AND AIR BALANCING REPORTS SUBMITTED TO THE ENGINEER PRIOR TO FINAL INSPECTION.	MAXIMUM WIDTH GAUGE	.55 mm
CONTRACT DOCUMENTS ARE BASED ON MATERIALS AND EQUIPMENT SPECIFIED. APPROVAL BY ENGINEER OF 3 EQUIPMENT SUBMITTED BY THE MECHANICAL TRADE AS EQUAL TO THAT SPECIFIED DOES NOT RELIEVE THE	ALL DEFICIENCIES SHALL BE COMPLETED WITHIN TWO (2) WEEKS AFTER FINAL INSPECTION AND LETTER SUBMITTED TO ENGINEER WITHIN THAT TIME ADVISING THAT THE WORK IS COMPLETE. FAILURE TO COMPLETE	330mm TO 760mm WIDE	.70 mm
MECHANICAL TRADE OF ANY RESPONSIBILITY. CONTRACTOR TO BE COMPLETELY RESPONSIBLE FOR ASCERTAINING THAT EVERY ITEM INCLUDED IN THE 1	WORK WILL RESULT IN WORK BEING DONE BY THE OWNER AND THE COSTS DEDUCTED FROM FINAL PAYMENT.	ROUND DUCTWORK DUCT DIAMETER	GAUGE
TENDER COMPLIES IN ALL RESPECTS WITH THE SPECIFICATIONS AND DRAWINGS. AFTER AWARD OF TENDER, ANY ITEM OF EQUIPMENT FOUND BY THE ENGINEER NOT TO COMPLY WITH THE SPECIFICATIONS AND THE 1	I. THIS PROJECT INVOLVES RENOVATIONS TO EXISTING BUILDING, THEREFORE, EXAMINE THE SITE AND LOCAL	UP TO 330mm WIDE 335mm TO 560mm	.55 mm .70 mm
DRAWINGS, TO BE REPLACED AT NO ADDITIONAL COST WITH AN ITEM OR UNIT OF ENGINEER'S CHOICE. REVISIONS REQUIRED TO ADAPT ALTERNATIVES SHALL BE INCLUDED IN SUCH PROPOSALS. NO INCREASE IN	CONDITIONS TO DETERMINE THE DIFFICULTIES IN CARRYING OUT THE WORK INDICATED AND SPECIFIED PRIOR TO SUBMITTING FINAL PRICE. EXTRAS WILL NOT BE CONSIDERED BASED ON THE GROUNDS OF DIFFERENCES ON SITE.	2. LOW VELOCITY INSULATED FLEXIBLE DUCTWORK SHALL BE	EQUAL TO THERMAFLEX TYPE M-KE.
THE CONTRACT PRICE WILL BE CONSIDERED TO ACCOMMODATE THE USE OF EQUIPMENT OTHER THAN THAT	1.15 EXECUTION OF THE PROJECT	 CONNECT DIFFUSERS OR TROFFER BOOTS TO LOW PRESSU FLEXIBLE DUCT. HOLD IN PLACE WITH CAULKING COMPOUND DUCT TO CHANGE DIRECTIONS. 	
SUBMIT SHOP DRAWINGS IN PDF FORMAT TO ENGINEER ON ALL EQUIPMENT SPECIFIED IN SPECIFICATIONS OR 1 DRAWINGS FOR ENGINEER'S REVIEW. DO NOT ORDER EQUIPMENT OR MATERIALS UNTIL ENGINEER HAS	I. SUPPLY AND INSTALL TEMPORARY FILTERS AT MECHANICAL COMPARTMENT ROOM. REPLACE MEDIA THROUGHOUT CONSTRUCTION. REMOVE PRIOR TO AIR BALANCE AND RE-OCCUPANCY. SEAL ALL OPEN ENDED	4. WHERE LOW PRESSURE DUCTS ARE CONNECTED TO FAN E	
REVIEWED SHOP DRAWINGS. COORDINATE EXACT LOCATIONS OF NEW EQUIPMENT IN CEILING PLENUM PRIOR TO ORDERING. IF ANY 1	DUCTS DURING CONSTRUCTION AND REMOVE PRIOR TO CONNECTION ON OCCUPANCY.	APPARATUS, A SCREWED OR BOLTED FLEXIBLE GASKETED DUCTWORK AND THE EQUIPMENT.	JOINT SHALL BE PROVIDED BETWEEN THE
DISCREPANCIES TO THAT SHOWN, COORDINATE WITH ENGINEER. ENSURE SPACE IS PROVIDED FOR COMPLETE SERVICEABLE UNITS.	I. CONTRACTOR SHALL REVIEW ALL EQUIPMENT REQUIRING ELECTRICAL HOOK-UP WITH ELECTRICAL	5. ALL SUPPLY, RETURN, AND EXHAUST DUCT JOINTS, LONGITU SEALED USING:	UDINAL AS WELL AS TRANSVERSE, SHOULD BE
GUARANTEE	CONTRACTOR AND ELECTRICAL DRAWINGS PRIOR TO ORDERING EQUIPMENT. ENSURE PROPER ELECTRICAL CHARACTERISTICS ARE DETERMINED FOR ALL AFFECTED AND RELATED WORK.	5.1. LOW PRESSURE DUCTWORK:	
SERVICEABLE CONDITION FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE BY THE OWNER.	PART 2 - TESTING AND BALANCING	SLIP JOINTS: APPLY HEAVY BRUSH-ON HIGH PRESSURE AFTER THE FIRST APPLICATION HAS COMPLETELY DRIE	
STANDARD OF MATERIALS AND WORKMANSHIP	2.1 QUALITY ASSURANCES	USE HEAVY MASTIC TYPE SEALANT. FLANGED JOINTS: SOFT ELASTOMER BUTYL OR EXTRUE	DED FORM OF SEALANT RETWEEN FLANGES
ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE STANDARDS OF THE EXISTING PREMISES AS A MINIMUM AND AS SUPPLEMENTED HEREIN.	TO DEMONSTRATE ITS PROPER AND SAFE OPERATION.	FOLLOWED BY AN APPLICATION OF HEAVY BRUSH-ON H	
2 MAKE AND QUALITY OF MATERIALS USED ARE SUBJECT TO APPROVAL BY THE ENGINEER AND TENANT. REMOVE CONDEMNED MATERIALS AND INSTALL SUITABLE MATERIALS IN THEIR PLACE.	2. TEST PROCEDURES IN ACCORDANCE WITH APPLICABLE PORTIONS OF ASME, NFPA, ASHRAE, SMACNA, AND OTHER RECOGNIZED TEST CODES AS FAR AS FIELD CONDITIONS PERMIT. PERFORM TESTS ON SITE TO THE SATISFACTION OF THE ENGINEER. COORDINATE WITH ENGINEER AT THE START OF THE PROJECT, THOSE TEST		
MATERIALS SHALL BE NEW AND OF UNIFORM PATTERN THROUGHOUT, WHEN SPECIFICALLY IDENTIFIED IN THIS	THAT WILL REQUIRE WITNESSING BY THE ENGINEER.		
SPECIFICATION. THIS IS FOR THE PURPOSE OF ESTABLISHING A STANDARD OF QUALITY OF MATERIALS AND 3 WORKMANSHIP AND NOT TO LIMIT SELECTION.	 PIPING, FIXTURES OR EQUIPMENT SHALL NOT BE CONCEALED OR COVERED UNTIL INSTALLATION IS INSPECTED AND APPROVED BY THE ENGINEER. 		
WORKMANSHIP SHALL FOLLOW THE BEST TRADITION AND TRADESMANSHIP. EMPLOY ONLY TRADESMEN2PROPERLY LICENSED FOR WORK REQUIRING TRADESMAN WITH SPECIAL SKILL.1	2.2 EQUIPMENT TESTS		
OWNER'S STOCK	 USE FACTORY TRAINED REPRESENTATIVES AND SUBMIT MANUFACTURER'S CHECK SHEETS FOR STARTING MECHANICAL EQUIPMENT. 		
SOME ITEMS OF MECHANICAL EQUIPMENT MAY BE AVAILABLE FROM THE OWNER'S STOCK.			

ORIGINAL SHEET - ARCH D (24"x36")

ED RECTANGULAR DUCTS: 25 mm FLEXIBLE FIBROUS GLASS INSULATION, "K" 8 W/M°C WITH FACTORY APPLIED REINFORCED ALUMINUM FOIL VAPOR BARRIER.

OUS INSULATION WITH "K" VALUE AT 24°C MAXIMUM 0.035 W/M°C ABSOLUTE RFACE NOT TO EXCEED 0.033 mm COATED TO PREVENT FIBER EROSION AT AIR KG/M3 MINIMUM DENSITY FOR DUCTWORK AND 72 KG/M3 FOR PLENUMS.

ATION IS CLEAN AND DRY PRIOR TO AND DURING INSTALLATION.

INUOUS THROUGH INSIDE PARTITIONS.

NEATLY AT HANGERS, SUPPORTS, ACCESS DOORS, FIRE DAMPERS, AND OTHER

AND SMOKE HAZARD RATINGS AS DEFINED IN ALBERTA HEATING, VENTILATION &

ING MATERIAL AND LABOR FOR THE SYSTEMS AS SHOWN ON THE DRAWINGS. ALL LLED IN COMPLIANCE WITH APPLICABLE CODES.

DNNECTIONS WHEREVER JOINTING DISSIMILAR METALS IN OPEN SYSTEMS. BRASS ACCEPTABLE.

ON PLUMBING LINES WHERE CONTAMINATION OF DOMESTIC WATER MAY OCCUR. RIOR TO SANITARY AND DRAINAGE CONNECTIONS.

ER 0.3m, UNLESS NOTED OTHERWISE.

OR VENTILATED SPACES. PITCH LINES AND PROVIDE DRIP LEGS AT I POINTS. WHERE GAS PIPING IS RUN IN CONCEALED SPACE PROVIDE VENTILATION

YSTEM WORKING PRESSURE, BUT MINIMUM 1035 KPA (150 PSI) FOR AT LEAST TWO RIOR TO TESTING TO ALLOW LANDLORD TO WITNESS TEST IF DESIRED.

NG 75 mm (3 INCH) AND SMALLER SHALL BE DWV COPPER WITH SOLDER FITTINGS. PTABLE. DRAINAGE AND VENT PIPING LARGER THAN 75 mm (3 INCH) SHALL BE CAST

CH BASE BUILDING BASE BUILDING IDENTIFICATION SYSTEM. USE WORDING, IN ACCORDANCE WITH BASE BUILDING STANDARDS.

SHALL BE TYPE "DWV" COPPER C/W 50/50 SOLDER JOINTS OR CAST IRON WITH

ALL BE TYPE "L" HARD COPPER C/W 95/5 SOLDER JOINTS. NSULATED WITH FACTORY APPLIED VAPOR BARRIER JACKET, MOULDED TO

JE AT 24°C MAXIMUM 0.035 W/MxK DEGREES CELSIUS.

ISULATED WITH FINE FIBROUS GLASS INSULATION WITH FACTORY APPLIED MOULDED TO CONFORM TO PIPING, "K" VALUE AT 24°C MAXIMUM 0.035 W/M

INSULATION PIPE SIZE	THICKNESS (mm)
ALL SIZES	12
ALL SIZES	12
12-20	12
25-200	25

SUPPORTED AND SECURELY BRACED. PROVIDE COPPER PLATED HANGERS AND NG AND GALVANIZED HANGERS AND SUPPORTS FOR GALVANIZED PIPING.

S IS NOT PERMITTED FOR PIPE HANGERS.

S FOR PIPING UP TO 38 mm AND CLEVIS TYPE HANGERS FOR PIPING OVER 139 mm.

ROD DIAMETER (mm) 9.5 9.5 9.5 16

SPACING (m) 1.8 2.4 3 3.6 4.2

ATER SYSTEM VALVES

RONZE BODY, CHROME PLATED BRONZE BALL, THREADED OR SOLDERED ENDS, , WOG, JENKINS FIGURE 901A OR 902A.

E DONE BY A QUALIFIED CONTROLS CONTRACTOR. ACCEPTABLE FIRMS: SIEMENS,

EXISTING THERMOSTATS AS SHOWN ON THE DRAWINGS.

WHERE INDICATED OF BUILDING STANDARD TYPE. ENSURE OPERATING PATIBLE WITH CONTROL COMPONENTS (I.E. DIRECT/REVERSE ACTING).

LL OR COLUMN MOUNTED AT NORMAL MOUNTING HEIGHT UNLESS SPECIFICALLY

AND NEW ARE TO BE CALIBRATED PRIOR TO AIR BALANCING. CONTACT BUILDING MOSTAT NEEDS REPLACING.

END OF SECTION



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Consultants

Legend

Notes

В	ISSUED FOR TENDER	JPH	BH	2019.03.08
А	ISSUED FOR 75% CLIENT REVIEW	JPH	BH	2019.01.28
Re	evision	Ву	Appd	YYYY.MM.DD

Permit-Seal



PERMIT TO PRACTICE STANTEC CONSULTING LTD. Signature Date <u>MAR 8, 2019</u> PERMIT NUMBER: P 0258 The Association of Professional Engineers and Geoscientists of Alberta

Client/Project

GOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

RED DEER, ALBERTA

Title

MECHANICAL SPECIFICATIONS

 Project No.
 Scale

 144211605
 N.T.S.

N.T.S. Drawing No.

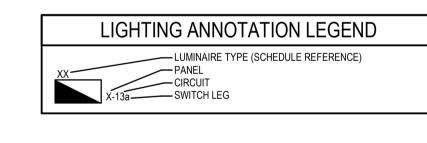
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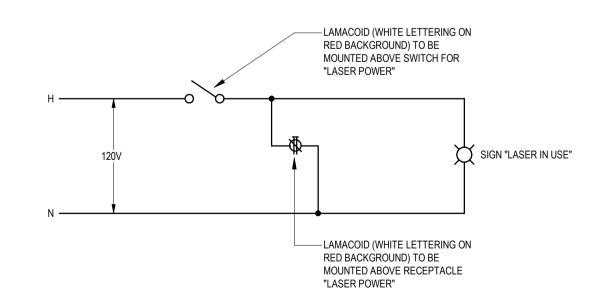
Revision

- M50

Sheet 8 of 8

	-
	LIGHTING PLAN SYMBOLS
	SURFACE MOUNTED OR SUSPENDED LED LUMINAIRE, 1'x4'
	SURFACE MOUNTED OR SUSPENDED LED LUMINAIRE, 2'x4'
	SURFACE MOUNTED OR SUSPENDED LED LUMINAIRE, 2'x2'
	RECESSED LED LUMINAIRE, 1'x4'
\square	RECESSED LED LUMINAIRE, 2'x4'
	RECESSED LED LUMINAIRE, 2'x2'
	LED STRIP LUMINAIRE, 4'
	LED STRIP LUMINAIRE, 3'
	LED STRIP LUMINAIRE, 2'
	WALL MOUNTED LINEAR LED LUMINAIRE, 4'
	WALL MOUNTED LINEAR LED LUMINAIRE, 3'
T	WALL MOUNTED LINEAR LED LUMINAIRE, 2'
Ø	RECESSED LUMINAIRE / POT LIGHT, 6" DIAMETER OR LARGER
Ø	RECESSED LUMINAIRE / POT LIGHT, LESS THAN 6" DIAMETER
<u> </u>	SURFACE MOUNTED OR SUSPENDED LUMINAIRE
	STEP OR WALL MOUNTED LUMINAIRE
	BOLLARD OR IN-GROUND LUMINAIRE
AAA	RECESSED ADJUSTABLE LUMINAIRE ARRAY (# OF HEADS AS SHOWN)
-A	POLE MOUNTED LUMINAIRE (SINGLE HEAD)
¤ →¤	POLE MOUNTED LUMINAIRE (DOUBLE HEAD)
	LUMINAIRE ON EMERGENCY CIRCUIT (INDICATED BY HALF SHADING)
	DIRECTIONAL / AIMED LUMINAIRE (ARROW INDICATES DIRECTION)
\$€\$	CEILING MOUNTED EXIT SIGN (TEXT ON SHADED SIDES, ARROWS AS INDICATED)
⊢⊗↑	WALL MOUNTED EXIT SIGN (TEXT ON SHADED SIDES, ARROWS AS INDICATED)
	TRACK LIGHT (# OF HEADS AS SHOWN, LENGTH AS INDICATED)
¢	LINE VOLTAGE SWITCH (120V TO 347V)
<u></u>	LOW VOLTAGE SWITCH (30V OR LESS)
• • • • • • • • • • • • • • • • • • •	
os €	LINE VOLTAGE DIMMER SWITCH
• •• 0\$	LINE VOLTAGE SWITCH C/W OCCUPANCY SENSOR
• 6• P	LINE VOLTAGE SWITCH c/w PILOT LIGHT
-67 -2	LINE VOLTAGE TWO POLE SWITCH
•69- 3	LINE VOLTAGE THREE WAY SWITCH
•6 •4	LINE VOLTAGE FOUR WAY SWITCH
ᡊᠣ᠊⊺	TIMER SWITCH
ксэ- К	KEY OPERATED SWITCH
÷CPO	3-POSITION LIGHT SWITCH
05	CEILING MOUNTED LIGHTING OCCUPANCY SENSOR (TYPE AS INDICATED)
H09	WALL MOUNTED LIGHTING OCCUPANCY SENSOR (TYPE AS INDICATED)
e He	PHOTOCELL (EXTERIOR, TYPE AS INDICATED)
PC DHPC D	DAYLIGHT SENSOR (INTERIOR PHOTOCELL, TYPE AS INDICATED)
	EMERG. LTG. BATTERY PACK (# OF LAMPS AS SHOWN)
	CEILING MOUNTED EMERG. LTG. REMOTE HEAD (# OF LAMPS AS SHOWN)
<u>8</u> 82 ₩	WALL MOUNTED EMERG. LTG. REMOTE HEAD (# OF LAMPS AS SHOWN)
400	COMBINATION EXIT SIGN/EMERG. LTG. BATTERY PACK





1 LIGHTROOM 019 - LASER SWITCH SCHEMATIC E001 N.T.S.

					LUMINAIRE SCHEDULE
TYPE	VOLTAGE	WATTAGE	LAMP/HEADS	MOUNTING	REMARKS
300	120 V	33.9W	LED	RECCESSED	LED 610X1220mm LUMINAIRE
301	120 V	30.6W	LED	RECCESSED	LED 610X1220mm LUMINAIRE
302	120 V	4.4W/ft	LED	SURFACE	SURFACE UNDER CABINET LED LUMINAIRE
EX1	120 V	LESS THAN 2.5W	LED	WALL	LED EXIT LIGHT "GREEN RUNNIG MAN" C/W DIRECTION ARROW AND FACE AS PER THE ELECTRICAL DRAW

	3
	POWER PLAN SYMBOLS
₽	DUPLEX 5-15R RECEPTACLE
₽ ^{GF}	DUPLEX 5-15R RECEPTACLE C/W INTEGRAL GFCI PROTECTION
€	DUPLEX 5-20R RECEPTACLE, T-SLOT
Ф	SINGLE 5-15R RECEPTACLE
⊕	SPLIT CIRCUIT DUPLEX 5-15R RECEPTACLE
⊕	TWO DUPLEX 5-15R RECEPTACLES
Ю	SPECIAL RECEPTACLE (TYPE AS INDICATED)
∞	REEL CORD RECEPTACLE (TYPE AS INDICATED)
Ð	FLOOR MOUNTED DUPLEX 5-15R RECEPTACLE
	TWO FLOOR MOUNTED DUPLEX 5-15R RECEPTACLES
\bigcirc	CEILING MOUNTED DUPLEX 5-15R RECEPTACLE
	TWO CEILING MOUNTED DUPLEX 5-15R RECEPTACLES
PP	SERVICE COLUMN / PACK POLE (OUTLETS AS INDICATED)
\odot	UTILITY POLE (TYPE AS INDICATED)
J	CEILING MOUNTED JUNCTION BOX
Ь	WALL MOUNTED JUNCTION BOX
J	FLOOR MOUNTED JUNCTION BOX
	POWER PANELBOARD
	PANEL (TYPE AS INDICATED - SECURITY, LIGHTING RELAY, ETC.)
	SURFACE RACEWAY (TYPE AS INDICATED)
•	PUSHBUTTON (TYPE AND WIRING AS INDICATED)
\top	GROUND BUS BAR
	ROOM REFERENCE GROUND BUS
6	MOTOR
Ó۳-	MOTOR c/w DISCONNECT SWITCH
⊠r	COMBINATION DISCONNECT AND MAGNETIC MOTOR STARTER
	DISCONNECT SWITCH
Ľ	FUSED DISCONNECT SWITCH
\boxtimes	MAGNETIC MOTOR STARTER
\bigcirc	THERMOSTAT
₩ P	MANUAL MOTOR STARTER c/w PILOT LIGHT
	CONDUIT STUB
<u> </u>	CONDUIT UP
G	CONDUIT DOWN
•	DEVICE MOUNTED ABOVE MILLWORK COUNTERTOP
*	DEVICE MOUNTED BELOW MILLWORK COUNTERTOP
>	DEVICE MOUNTED IN FURNITURE SYSTEM

	TELECOMMUNICATIONS SYMBOLS
$\blacktriangleleft^{\#}$	WALL MOUNTED TELECOM OUTLET (# DENOTES NUMBER OF CABLES)
$\blacksquare^{\#}$	FLOOR MOUNTED TELECOM OUTLET (# DENOTES NUMBER OF CABLES)
${ }^{\#}$	CEILING MOUNTED TELECOM OUTLET (# DENOTES NUMBER OF CABLES)
${\Bbb P}$	INTERCOM STATION
- WAP	WIRELESS ACCESS POINT
	WALL MOUNTED TELEVISION OUTLET
	CEILING MOUNTED TELEVISION OUTLET
	FLOOR MOUNTED TELEVISION OUTLET
\triangleleft^{F}	FIBRE OPTIC OUTLET
	CABLE TRAY, AS INDICATED
	PUBLIC ADDRESS & AUDIO-VISUAL SYMBOLS
P	CEILING MOUNTED SPEAKER
нP	WALL MOUNTED SPEAKER
₽d	CEILING MOUNTED HORN SPEAKER
۲₽⊄	WALL MOUNTED HORN SPEAKER

	PUBLIC ADDRESS & AUDIO-VISUAL S
P	CEILING MOUNTED SPEAKER
чP	WALL MOUNTED SPEAKER
₽d	CEILING MOUNTED HORN SPEAKER
r₽⊲	WALL MOUNTED HORN SPEAKER
M	FLOOR MOUNTED MICROPHONE XLR JACK
\triangleleft_{M}	WALL MOUNTED MICROPHONE XLR JACK
Øм	CEILING MOUNTED MICROPHONE XLR JACK
$\mathbb{H} \triangleleft$	HORN
CO	CHIME
BO	BUZZER
ŕQ	VOLUME CONTROL
AV	FLOOR MOUNTED AUDIO / VIDEO JACK (TYPE AS INDICATED)
AV	WALL MOUNTED AUDIO / VIDEO JACK (TYPE AS INDICATED)
ØAV	CEILING MOUNTED AUDIO / VIDEO JACK (TYPE AS INDICATED)

D

В

	GENERAL SYMBOLS
#	NOTE REFERENCE
(##) (####)	EQUIPMENT REFERENCE
#	REVISION NUMBER
I IIII	WIRING HOME RUN
	FIRE ALARM SYMBOLS
F	FIRE ALARM MANUAL STATION
FD	FIRE ALARM BELL
	FIRE ALARM PIEZO (MINI) SOUNDER
	FIRE ALARM ELECTRONIC HORN/SOUNDER/CHIME
M C	FIRE ALARM ELECTRONIC HORN/SOUNDER/CHIME c/w STROBE
□⊲ HS	FIRE ALARM HORN SPEAKER
	FIRE ALARM CONE SPEAKER
⊠⊲⊂s	FIRE ALARM CONE SPEAKER c/w STROBE
X	CEILING MOUNTED REMOTE EVACUATION STROBE
ŀΧ	WALL MOUNTED REMOTE EVACUATION STROBE
0	CARBON MONOXIDE ALARM
J	FIRE ALARM HEAT DETECTOR (RATE OF RISE UNLESS OTHERWISE INDICATED)
0	FIRE ALARM SMOKE DETECTOR
ØDS	FIRE ALARM SMOKE DETECTOR, DUCT MOUNTED
() SA	SMOKE ALARM
\otimes	FLAME DETECTOR
FAA	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
CACF	CENTRAL ALARM & CONTROL FACILITY
ſ	FIRE ALARM EMERGENCY TELEPHONE
Н	FIRE ALARM MAGNETIC DOOR HOLD OPEN DEVICE
RFA	FIRE ALARM RELAY
EOL	FIRE ALARM END OF LINE RESISTOR
ISO	FIRE ALARM FAULT ISOLATION MODULE
СМ	FIRE ALARM CONTROL MODULE
MM	FIRE ALARM MONITOR MODULE
PS	FIRE ALARM CONNECTION TO PRESSURE SWITCH
FS	FIRE ALARM CONNECTION TO FLOW SWITCH
TS	FIRE ALARM CONNECTION TO TAMPER SWITCH
LS	FIRE ALARM CONNECTION TO LEVEL SWITCH

	ABBREVIATIONS
EX	
RE	
RP	REPLACE EXISTING DEVICE WITH NEW DEVICE
RL	RELOCATE EXISTING DEVICE
 ER	EXISTING DEVICE IN RELOCATED POSITION
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
 BMS	BUILDING MANAGEMENT SYSTEM
 СМ	COFFEE MACHINE
 DW	DISHWASHER
EL	EXAMINATION LIGHT
FAX	FAX MACHINE
 GF	GROUND FAULT
 GFCI	GROUND FAULT CIRCUIT INTERRUPTER
 НК	HOUSEKEEPING
HFF	HANDS FREE FIXTURE
ICE	ICE MACHINE
OC	ON CENTER
JB	JUNCTION BOX
MCC	MOTOR CONTROL CENTER
MW	MICROWAVE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
IG	ISOLATED GROUND
PTR	PRINTER
RB	RELAY BASE
REF	REFRIGERATOR
SB	SOUNDER BASE
SPD	SURGE PROTECTIVE DEVICE
TR	TAMPER RESISTANT
TV	TELEVISION
TYP	TYPICAL
WP	WEATHERPROOF

6

	SECURITY/ACCESS CONTROL SYMBOLS
$\Box \forall$	WALL MOUNTED SECURITY CAMERA
	WALL MOUNTED SECURITY CAMERA, FIXED
	WALL MOUNTED SECURITY CAMERA, PAN/TILT/ZOOM
	CEILING MOUNTED SECURITY CAMERA
ZZZ ⊄F	CEILING MOUNTED SECURITY CAMERA, FIXED
ZZZ 🗹 PTZ	CEILING MOUNTED SECURITY CAMERA, PAN/TILT/ZOOM
CR	CARD READER
CRK	CARD READER / KEY PAD COMBINATION
К	SECURITY KEY PAD
КО	KEYSWITCH OVERRIDE
E	REQUEST-TO-EXIT PUSHBUTTON
Ρ	PANIC/DURESS PUSHBUTTON
BK	BUZZER AND KEYSWITCH FOR LOCAL ALARM
ML	ELECTROMAGNETIC LOCK
EH	ELECTRIFIED DOOR HARDWARE
ES	ELECTRIC STRIKE
DP	DOOR POSITION SWITCH
RE	REQUEST-TO-EXIT MOTION SENSOR
•	PUSHBUTTON
۰K	PUSHBUTTON C/W KEYED RESET
●BF	BARRIER FREE PUSHBUTTON
M	CEILING MOUNTED SECURITY MOTION DETECTOR
M 360°	CEILING MOUNTED SECURITY MOTION DETECTOR (360 DEGREES)
кM	WALL MOUNTED SECURITY MOTION DETECTOR
G	GLASS BREAK DETECTOR
SO	SIREN

	DRAWING INDEX
NO.	DRAWING N
E001	SYMBOL LEGEND, NOTES, DRAWING LIST AN
E100	SECOND FLOOR PLAN - DEMOLITION AND RE
E200	SECOND FLOOR PLAN - DEMOLITION AND RE
E300	MECHANICAL EQUIPMENT SCHEDULE
E301	PANEL SCHEDULE
E400	ELECTRICAL SPECIFICATIONS

COMMUNICATIONS NO

- 1. ALL CONDUITS TO BE ELECTRICAL METALLIC TUBIN CONNECTORS SHALL BE T&B STEEL, SETSCREW TY
- 2. WORKSTATION OUTLET TO BE MINIMUM 27mm (1") C
- 3. REAM AND REMOVE ANY SHARP PROJECTIONS ON
- 4. ALL CONDUITS SHALL BE RUN IN THE MOST DIRECT PERPENDICULAR TO BUILDING LINES WITH PROPER
- PULLBOXES, FITTINGS OR JUNCTION BOXES SHALL COMMUNICATIONS CONDUIT RUNS ON THE BASIS O ANGLE BENDS OR THEIR EQUIVALENT. THERE SHAL IN STRAIGHT RUNS BETWEEN BOXES. PULLBOXES REQUIREMENTS.
- COMMUNICATIONS CONDUITS WITH AN INTERNAL DI SHALL HAVE A BEND RADIUS AT LEAST SIX(6) TIMES DIAMETER. CONDUITS WITH AN INTERNAL DIAMETER SHALL HAVE A BEND RADIUS AT LEAST TEN (10) TIM DIAMETER.

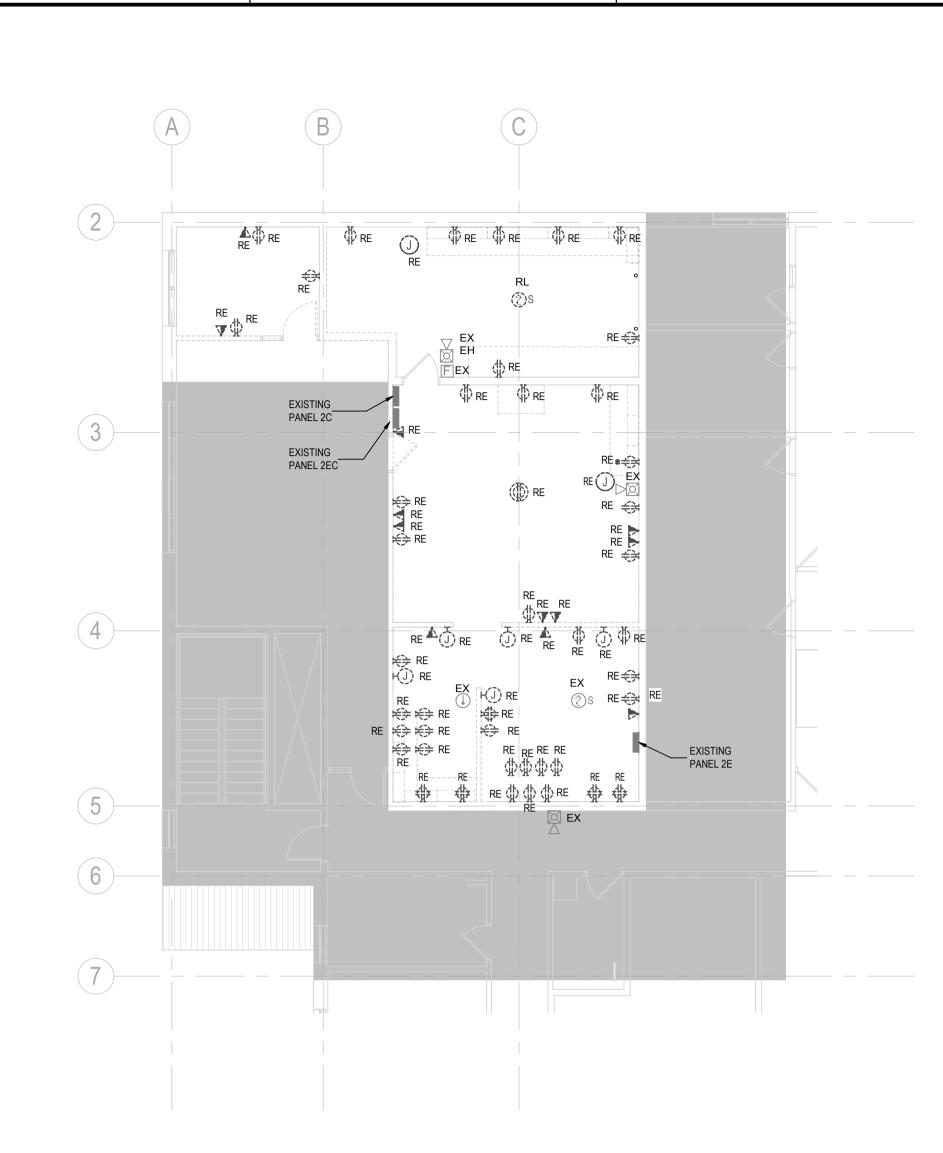
ELECTRICAL GENERAL NO

1.	ALL ELECTRICAL MATERIALS AND INSTALLATIONS SH BE INSTALLED AS PER THE MANUFACTURER'S RECOM COMPLY IN STRICT ACCORDANCE WITH THE LATEST I AND THE C.E.C.
2.	ALL CONDUIT WORK AND JUNCTION BOXES AS MAY B RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
3.	REFER TO MECHANICAL AND ARCHITECTURAL PLANS LUMINAIRES AND EQUIPMENT PRIOR TO ROUGH-IN.
4.	COORDINATE LOCATION OF LIGHTS WITH MECHANICA
5.	ELECTRICAL CONTRACTOR TO PROVIDE AS-BUILT DR COMPLETION.
6.	ELECTRICAL CONTRACTOR TO BE RESPONSIBLE FOR TO FIXTURES IN MILLWORK.
7.	PROVIDE LOCKS ON BREAKER FOR EMERGENCY AND SECURITY SYSTEM CIRCUIT.
8.	ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALABEL ON COVERPLATES OF ALL DUPLEX RECEPTAC TYPE C/W 16mm BLACK LETTERING AND SHALL IDENT BREAKER.
9.	PROVIDE A SEPARATE NEUTRAL WIRE FOR ALL WORK
10.	ELECTRICAL CONTRACTOR TO RELABEL ALL PANELS AND EXISTING CIRCUITS.
11.	PROVIDE LAMICOID LABELS FOR ANY SPECIAL PURPORECEPTACLES.
12.	REFER TO ARCHITECTURAL PLANS FOR EXACT LOCA PRIOR TO ROUGH-IN.

	MANUFACTURER	CATALOGUE NUMBER
	METALUX	24EN-LD2-40-UNV-L950-CD-1-U
	METALUX	24GR-LD5-38-A125-UNV-L850-CD1-U
	SGI	FLEX-P-ULTRA-24VDC-WHT-5000K-85-TRACK-LP2410-SIL-FF
WINGS.	THOMAS & BETTS	LDE-W-A-ACD-24DC

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	authorized by Stante	ec is forbidden.		
	Consultants			
	Legend			
]		_		
	Notes			
X				
) NAME				
AND LUMINAIRE SCHEDULE RENOVATIONS POWER AND SYSTEMS				
RENOVATIONS LIGHTING				
TEO	Revision		Ву Арр	d YYYY.MM.DD
TES				
NG (EMT). EMT COUPLING AND YPE.				
CONDUIT TO CEILING SPACE ABOVE.	ISSUED FOR TENDER	QAQC REVIEW	DMTS	
I ALL CONDUITS. T ROUTE POSSIBLE PARALLEL OR	ISSUED FOR 75% CLIEN ISSUED FOR 75% QAQ		$- \frac{PC}{PC} \frac{TS}{TS}$	
R SUPPORT.	Issued		Ву Арр	
L BE PROVIDED IN OF NOT MORE THAN TWO (2) RIGHT JLL NOT BE MORE THAN 30m (100ft),		_		
TO BE SIZED TO MEET CODE	Permit-Seal	NAL ENGIN		
DIAMETER OF 53mm (2in) OR LESS S THE INTERNAL CONDUIT		STELLEN S	HAN AND AND AND AND AND AND AND AND AND A	
ER OF GREATER THAN 53mm (2in) MES THE INTERNAL CONDUIT		2 DEE	BER	
			41	
DTES				
SHOWN AND/OR SPECIFIED SHALL COMMENDATIONS AND SHALL		PERMIT NUMBER: F	UZJØ	
ST EDITION OF C.S.A. STANDARDS	Client/Project			
NY BE REQUIRED SHALL BE THE OR.	GOVERNA	MENT OF CAN	1ADA	
ANS FOR EXACT LOCATION OF	EVICTINIC	BUILDING REN		N
N. NICAL, ARCHITECTURAL AND				IN
DRAWINGS AT PROJECT	RED DEER, ALE	BERTA		
FOR ALL ELECTRICAL CONNECTIONS		_		
	Title SYMBOL I	EGEND, NOTI	-S. DRAM	/ING LIST
AND EXIT LIGHT CIRCUIT AND		NAIRE SCHEE		
ISTALL A KROY DURATAPE TYPE 200 TACLES. LABEL SHALL BE CLEAR ENTIFY PANEL AND CIRCUIT	Project No.	Scale		
	144211605	N.T.S.		
ORKSTATIONS RECEPTACLES.	Revision	Drawing No.		
RPOSE SWITCHES OR				
	Sheet	- EOO		
OCATION AND MOUNTING HEIGHT	1 of 6		•	
	_=			





3

4

SECOND FLOOR PLAN - DEMOLITION POWER AND SYSTEMS 1:100

	POWER DEMOLITION NOTES
1	. THESE DEMOLITION DRAWINGS ARE INTENDED TO ASSIST THE ELECTRICAL CONTRACTOR IN ESTABLISHING AREAS REQUIRING DISCONNECTION, REMOVAL, OR RELOCATION OF ELECTRICAL EQUIPMENT, OUTLETS, WIRING, DEVICES, FIXTURES, ETC. AND DO NOT INDICATE ALL OUTLETS, EXACT QUANTITIES OR EXTENT OF DEMOLITION AND RECONNECTION WHICH MAY BE REQUIRED. THE ELECTRICAL CONTRACTOR SHALL VISIT THE JOBSITE AND THOROUGHLY EXAMINE ALL REQUIRED DEMOLITION WORK AND INCLUDE ALL LABOR AND INCIDENTALS WHICH MAY BE NECESSARY TO PERFORM DEMOLITION, RECONNECTION AND TEMPORARY POWER CONNECTIONS IN THE BID.
2	 THE ELECTRICAL CONTRACTOR SHALL REMOVE FROM THE PREMISES AND DISPOSE OF ALL DEMOLISHED ELECTRICAL EQUIPMENT, ETC. VERIFY LOCAL AGENCY REQUIREMENTS PRIOR TO BIDDING.
3	3. COORDINATE THE ELECTRICAL DEMOLITION WORK WITH THE GENERAL CONTRACTOR AND ALL OTHER TRADES AT THE JOBSITE. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARLY IDENTIFYING ALL CONDUITS, WIRING AND EQUIPMENT WHICH MUST BE MAINTAINED TO PREVENT DAMAGE TO ELECTRICAL CIRCUITS AND EQUIPMENT BY THE DEMOLITION WORK OF OTHER TRADES. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR REPAIR OR REPLACEMENT OF ELECTRICAL CIRCUITS AND/OR EQUIPMENT DAMAGED BY THE DEMOLITION WORK OF OTHERS RESULTING FROM THE FAILURE OF THE ELECTRICAL CONTRACTOR TO CLEARLY IDENTIFY SAID CIRCUITS OR EQUIPMENT.
4	REFER TO MECHANICAL AND ARCHITECTURAL PLANS FOR FURTHER INDICATION OF DEMOLITION AND RENOVATION. ELECTRICAL CONTRACTOR TO BE RESPONSIBLE FOR TEMPORARY OR PERMANENT REMOVAL, DISCONNECTION, AND/OR RELOCATION OF EQUIPMENT AND ASSOCIATED CONTROLS (EXCLUDING MECHANICAL EQUIPMENT).
5	5. ELECTRICAL CONTRACTOR TO VISIT THE SITE DURING BIDDING PROCESS, INSPECT AREAS BEING RENOVATED OR DEMOLISHED AND ACQUAINT THEMSELVES FULLY WITH THE EXISTING EQUIPMENT. DISCREPANCIES TO BE REPORTED TO THE ENGINEER 7 DAYS PRIOR TO SUBMISSION OF BID FOR INCLUSION IN ADDENDA IF REQUIRED, IN THE ABSENCE OF NOTIFICATION, IT WILL BE ASSUMED THAT THE CONTRACTOR HAS INCLUDED THE MORE EXPENSIVE ALTERNATIVE IN THE TENDERED PRICE.
6	B. ELECTRICAL CONTRACTOR TO ALLOW FOR TEMPORARY REMOVAL AND REINSTALLATION AS REQUIRED TO ACCOMMODATE WALL, FLOOR AND CEILING REFINISHING.
7	2. ELECTRICAL CONTRACTOR SHALL SEAL ALL WALL AND FLOOR PENETRATIONS TO MAINTAIN RATING INTEGRITY OF BUILDING STRUCTURE.
8	 ELECTRICAL CONDUIT, WIRES, AND SYSTEMS CABLING SHALL BE REMOVED FROM OUTLET BACK TO SOURCE.
g	 FOR DEVICES TO BE REMOVED, REMOVE ALL WIRING AND CONDUIT BACK TO SOURCE.

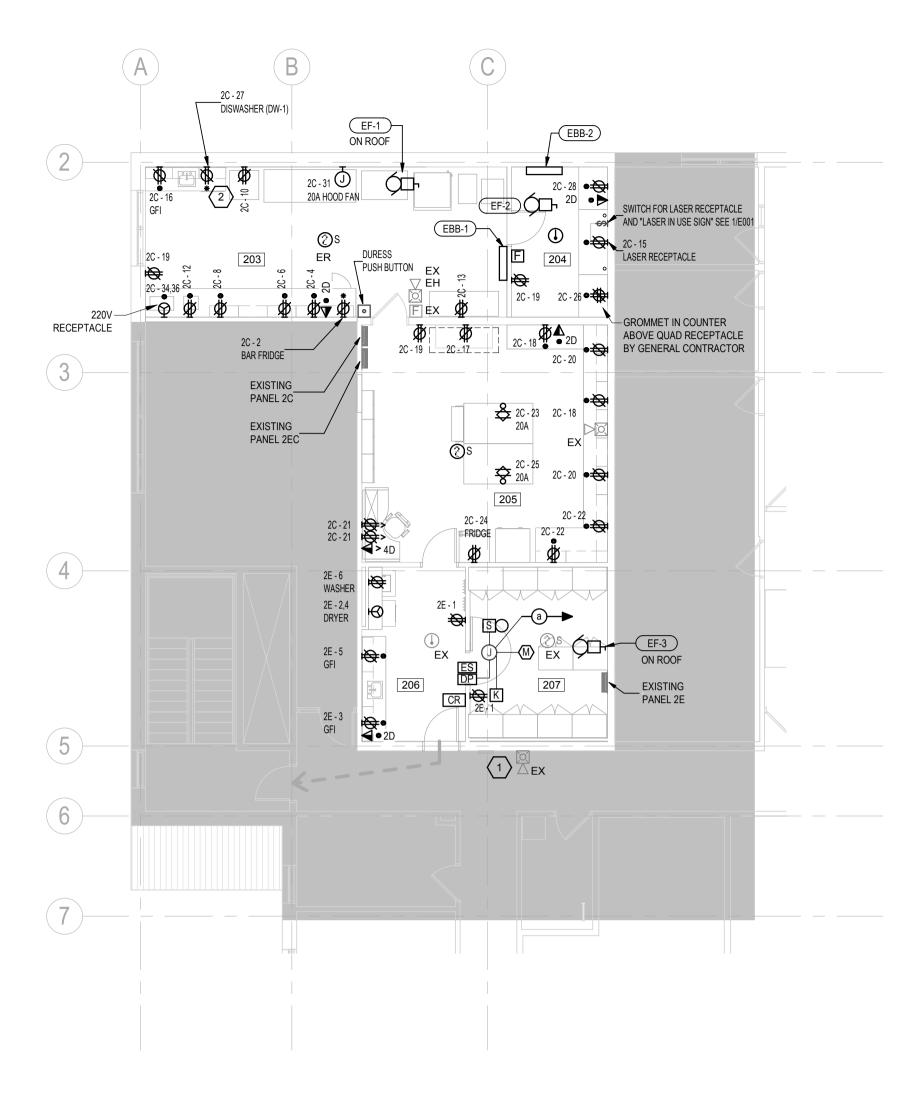
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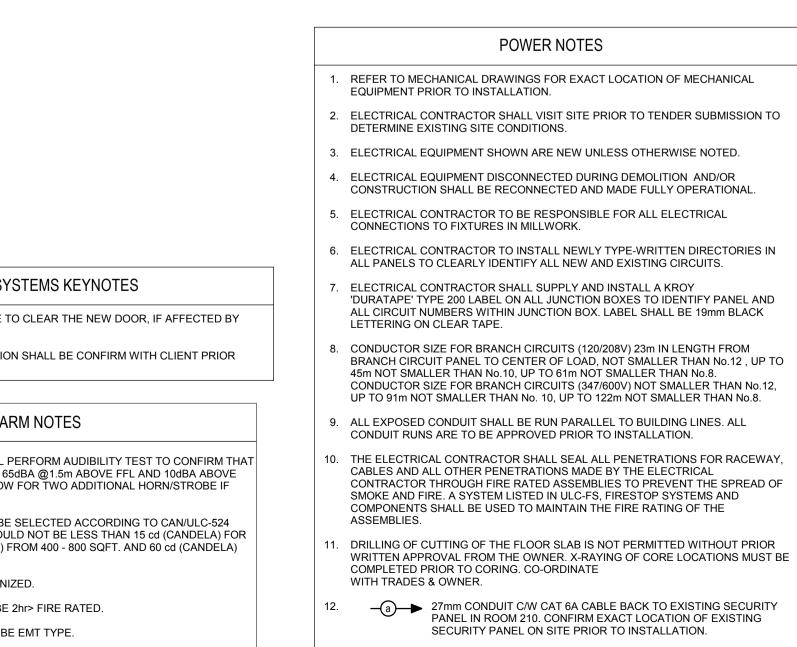
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SECOND FLOOR PLAN - RENOVATIONS POWER AND SYSTEMS ∖E100 / 1:100



POWER AND SYSTEMS KEYNOTES

1 RELOCATE EXISTING HORN/STROBE TO CLEAR THE NEW DOOR, IF AFFECTED BY NEW DOOR.

2 THE DURESS ALARM SIGNAL LOCATION SHALL BE CONFIRM WITH CLIENT PRIOR TO INSTALLATION.

FIRE ALARM NOTES

- ELECTRICAL CONTRACTOR SHALL PERFORM AUDIBILITY TEST TO CONFIRM THAT AVERAGE SPL IS NOT LESS THAN 65dBA @1.5m ABOVE FFL AND 10dBA ABOVE AVERAGE NOISE LEVEL AND ALLOW FOR TWO ADDITIONAL HORN/STROBE IF REQUIRE.
- STROBE CANDELA LEVEL SHALL BE SELECTED ACCORDING TO CAN/ULC-524 TABLES 5, 6 AND 7. STROBES SHOULD NOT BE LESS THAN 15 cd (CANDELA) FOR UP TO 400 SQFT., 30 cd (CANDELA) FROM 400 - 800 SQFT. AND 60 cd (CANDELA) FOR OVER 800 SQFT.
- 3. ALL STROBE SHALL BE SYNCHRONIZED.

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- 4. ALL FIRE ALARM CABLES SHALL BE 2hr> FIRE RATED.
- 5. ALL FIRE ALARM CONDUIT SHALL BE EMT TYPE.



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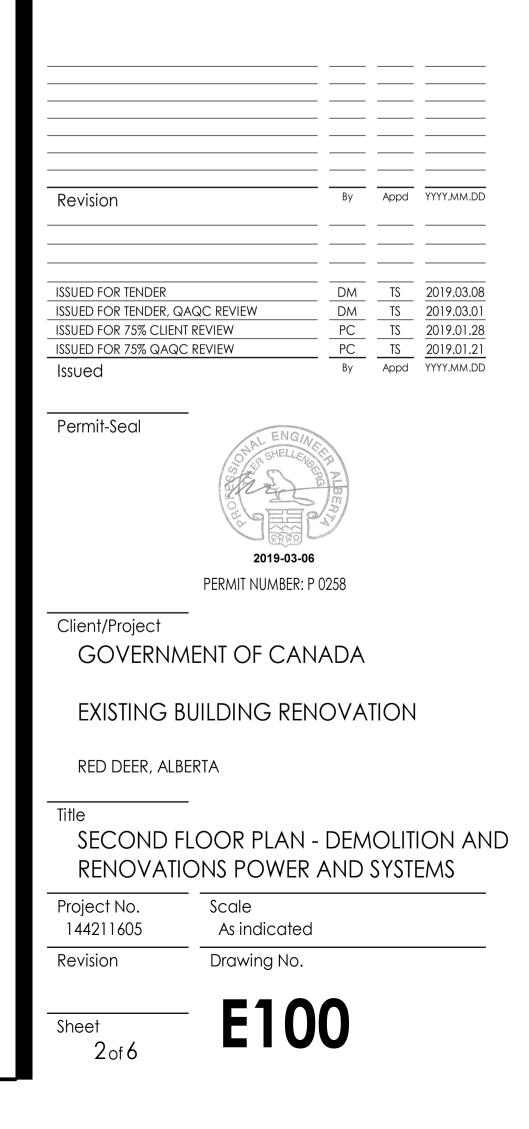
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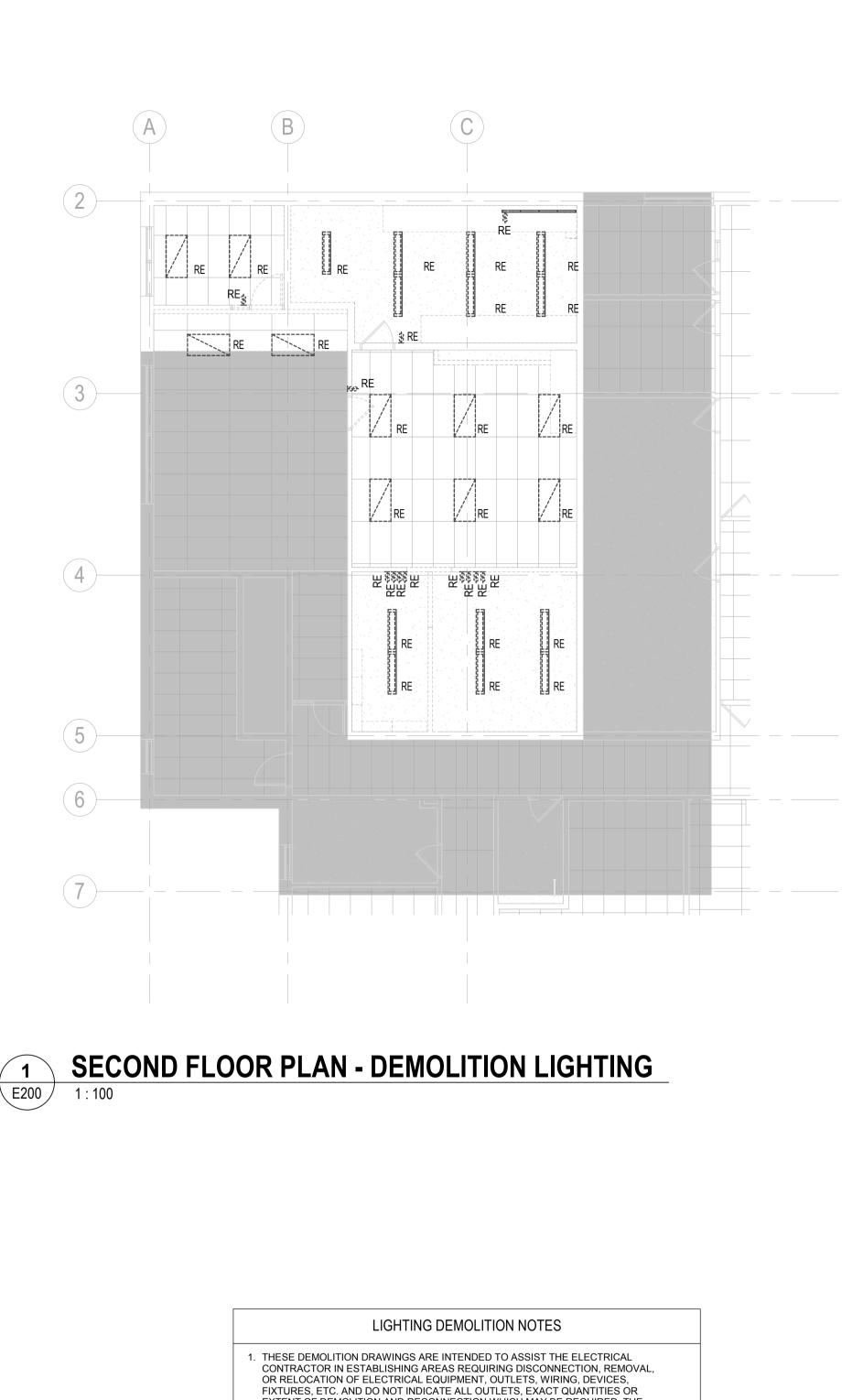
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Consultants

Legend

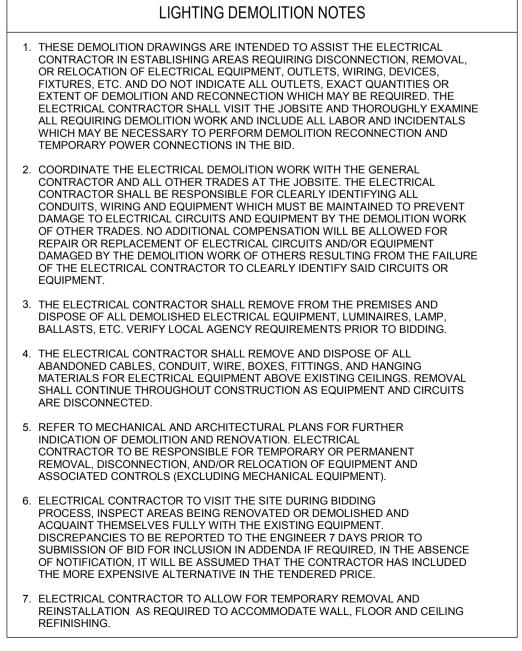
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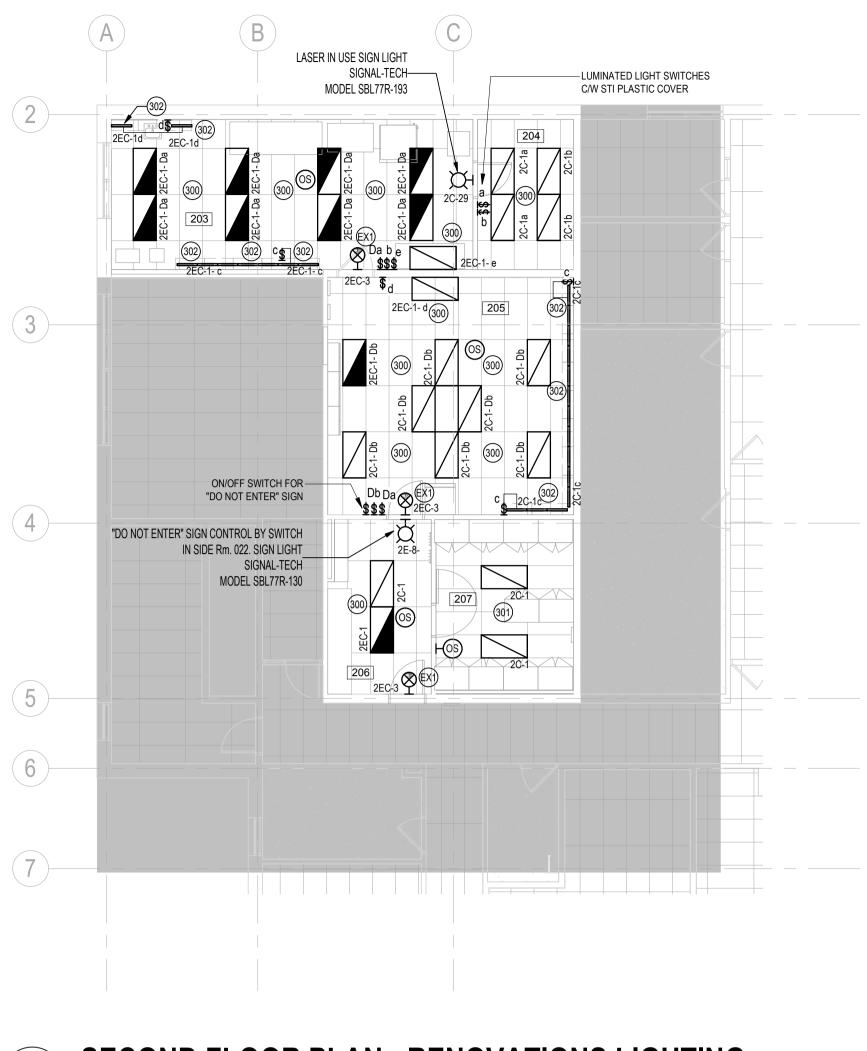
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SECOND FLOOR PLAN - RENOVATIONS LIGHTING 2 **E200** 1 : 100

LIGHTING NOTES

- 1. ALL ELECTRICAL MATERIALS AND INSTALLATIONS SHOWN AND/OR SPECIFIED SHALL BE INSTALLED AS PER THE MANUFACTURER'S RECOMMENDATIONS AND SHALL COMPLY IN STRICT ACCORDANCE WITH THE LATEST EDITION OF C.S.A. STANDARDS AND THE C.E.C.
- 2. ALL CONDUIT WORK AND JUNCTION BOXES AS MAY BE REQUIRED SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- 3. ELECTRICAL CONTRACTOR SHALL REUSE ALL ELECTRICAL COMPONENTS REMOVED DURING DEMOLITION WHERE POSSIBLE AND SALVAGE NON-REUSABLE ELECTRICAL COMPONENTS TO OWNER.
- 4. ELECTRICAL CONTRACTOR TO CONFIRM THAT LIGHTING CIRCUITS DO NOT EXCEED 80% OF EXISTING BREAKER RATING. ELECTRICAL CONTRACTOR SHALL REPLACE EXISTING 15AMP BREAKER WITH 20AMP BREAKER WHERE APPLICABLE.
- 5. ELECTRICAL CONTRACTOR TO INSTALL NEWLY TYPE WRITTEN DIRECTORIES IN ALL PANELS TO CLEARLY IDENTIFY ALL NEW AND EXISTING CIRCUITS.
- 6. PROVIDE LAMACOID LABELS FOR ANY SPECIAL PURPOSE SWITCHES OR RECEPTACLES C/W PANEL FEED, VOLTAGE AND CIRCUITS.
- 7. CONTRACTOR TO RUN CONDUIT CONCEALED WHERE POSSIBLE. ON EXISTING CEILING SYSTEMS. CONTRACTOR TO SURFACE MOUNT CONDUIT AND PAINT TO MATCH CEILING.
- 8. ELECTRICAL EQUIPMENT SHOWN WITH NO SUBSCRIPT ARE NEW UNLESS NOTED OTHERWISE.
- 9. EXISTING ELECTRICAL EQUIPMENT NOT SHOWN ON DRAWINGS ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

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RED DEER, ALBERTA

Title

SECOND FLOOR PLAN - DEMOLITION AND **RENOVATIONS LIGHTING**

Project No. 144211605

As indicated Drawing No.

Scale

Sheet $3 \, \mathrm{of} \, 6$

Revision



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			LOAD						S	TARTE	R & ACCE	CCESSORIES			CONTROL					MO	OTOR DISCONNECT		NECT							
UNIT No.	UNIT	LOCATION	<u></u>	Kw	FLA	MOCP / MOP (Or MCA)	MCA (AMPS)	VOLTS (Check Main Service)		PACKAGED EQUIPMENT (YI	түре [в]	CONTROL [C]	TTS 1	SUPPLIED BY [A] INSTALLED BY [A]	₹	TYPE DI	SUPPLIED BY [A]	INSTALLED BY [A] WIRING BY [A]		CIRCUIT	BREAKER / FUSE SIZE	SUPPLIED BY [A]	INSTALLED BY [A]	WIRED BY [A]	INTEGRATED SWITCH BY MECH (Y/N)	FEEDER (SEE NOTES 2 & 8)	IRE ALARM SHUTDOWN (Y/N)	FIRE ALARM STARTUP (Y/N)	EMERGENCY POWER (Y/N)	REMA
EF-1	Exhaust Fan	On Roof	0.25					120) 1	Y	MA			E E	E	S	; E	EE	21	EC-2	15A-1P					21mmC - 2#12 AWG Cu + #12 GRD	N		Y	
EF-2	Exhaust Fan	LightRoom - Ceiling Space	0	.08	1.00			120) 1	Y	MA			E E	E	S	E E	EE	21	EC-4	15A-1P					21mmC - 2#12 AWG Cu + #12 GRD	N		Y	
EF-3	Exhaust Fan	On Roof	0.25					120) 1	Y	MA			E E	E	S	E	EE	21	EC-6	15A-1P					21mmC - 2#12 AWG Cu + #12 GRD	N		Y	
DW-1	Dishwasher (TO BE SUPPLIED BY CLIENT)	Chemical Processing Lab	1	.80				120) 1	Y									2	2C-27	15A-1P					21mmC - 2#12 AWG Cu + #12 GRD	N		N	
EX	EXISTING Wetsink Exhaust Fan	Chemical Processing Lab																									N		Y EXISTING CIRCUIT SH	HALL BE MOV
EBB-1	Electric Baseboard Heater	Chemical Processing Lab	1	.00				120) 1		D			E E	E	Т	E	EE	2	2C-30	15A-1P					21mmC - 2#12 AWG Cu + #12 GRD	N		N	
EBB-2	Electric Baseboard Heater	Lightroom	0	.50				120) 1		D			E E	E	Т	E	E E	2	2C-32	15A-1P					21mmC - 2#12 AWG Cu + #12 GRD	N		N	

[A] SUPPLIED BY: E = ELECTRICAL M = MECHANICAL

[B] STARTER TYPE:

D = DIRECT CONNECTION CM = COMBINATION MAGNETIC STARTER / SEE NOTE #3

MA = MANUAL STARTER C/W PILOT LIGHT

MG = MAGNETIC STARTER / SEE NOTE #3 MG2 = MAGNETIC STARTER (2-SPEED) / SEE NOTE #4

REC = RECEPTACLE

RVS = REDUCED VOLTAGE STARTER

SS = SOFT START

VFDD = VARIABLE FREQUENCY DRIVE / DIRECT MOUNT / SEE NOTE #1 VFDR = VARIABLE FREQUENCY DRIVE / REMOTE MOUNT / SEE NOTE #1

AR = BMS HP RATED CONTROL RELAY / SEE NOTE #7

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VFDs are supplied by Division 22, 23 and contain a disconnect. Internal fusing is for electronic equipment in VFD unless otherwise indicated.

- Magnetic starters to be complete with 120 volt control transformer, HOA Switch, 2 NO auxiliary contacts, unless otherwise indicated.
- 2-Speed Starters are to be for 2-winding motors and complete with 120 volt control transformer, HOA Switch, HI-LO Switch, 1 auxiliary contact NO low, 1 auxiliary contact NO high unless otherwise indicated. Electronic thermostats and Time Clocks required a source of 120/1/60 power.
- 6 If Gas sensor such as CO, NO2, etc. are not part of BMS, sensor will require a control panel and a source of 120/1/60 power for panel

For single phase loads controlled by BMS. HP rated relay normally provided by BMS contractor, unit equal to Functional Devices RIBXLCV c/w 1/3 HP, 120-240 volt rated relay contact, 10-30 Vac/dc coil, 0-10 amp current transducer. Other models available for increased HP Cables from the VFD to the motor to be labelled and certified for VFD application with a minimum of 1000V rating.

Single phase motors to be complete with integral o/l with automatic reset, unless otherwise indicated.

If package equipment is answered as ' Y' assume it is complete with starters, contactors, overloads, fusing, transformers, etc. to accommodate a single power source.

D

[C] CONTROL TYPE: HOA = HAND/OFF/AUTO

SS = START/STOP - MOM PB

[D] CONTROL DEVICE:

BMS = BUILDING MANAGEMENT SYSTEM C = TIME CLOCK / SEE NOTE #5 ET = ELECTRONIC THERMOSTAT / SEE NOTE #5 F = FLOAT SWITCH **FA =** FIRE ALARM GS = GAS SENSOR / SEE NOTE #6 H = HUMIDISTAT I = INTERLOCK **O** = OTHER (IDENTIFY) **P** = PRESSURE SWITCH S = MANUAL SWITCH **T** = THERMOSTAT

[E] PILOT LIGHTS: **G** = GREEN (ON)

R = RED (OFF)

Cable sizes shown on the drawings are the minimum required. Electrical contractor shall confirm sizes based on the real site routes and in accordance with the latest CEC Table 2 and Table D3 in such a manner that the overall voltage drop across motor terminals shall not exceed 5%. Electrical contractor shall allow for any cable upgrade if required.

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MOVE TO EMERGENCY PANEL 2EC	Consultants	_		
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	Project No. 144211605	CAL EQUIPN - Scale N.T.S.		
	Revision Sheet	Drawing No		
	4 of 6			

Stanteo																	
	Name: 2C				Volts: 208	Y/120V		Mains Ty						PANELBOAR	D		
Location: EXAMINATION ROOM 205					hases: 3			Mains Rati	ng: 225 A				Rating:				
Supply From:					Wires: 4							Mo	ounting:	SURFACE			
Serves: Notes: EXISTING PANEL									En	closure:	NEMA 1						
СКТ	Circuit Description	Trip	Poles	СВ		A		В		C	CB	Poles	<u> </u>		rcuit Description		
	LIGHTS Rm. 019, 020, 021 ,023 & 028	15 A	1		0.72	0.50	0.00	0.00						BAR FRIDGE			
	SPARE	15 A	1				0.00	0.20	0.00	0.00		1		COUNTER R			
	SPARE EXISTING LIGHTING	15 A 15 A	1		0.00	0.20			0.00	0.20		1	20 A 20 A	COUNTER R		-+	
	EXISTING	15 A	1		0.00	0.20	0.00	0.20				1		FUMING CHA			
	EXISTING	15 A	1				0.00	0.20	0.00	0.20		1			ECEPTACLES (HEAT		
	DUST STATION	20 A	1		0.60				0.00	0.20		· ·	2071	OCONTERN			
	COPY STATION	20 A	1				1.00	0.20				1	20 A	GFI COUNTE	R RECEPTACLE		
	COPY STATION	15 A	1						1.00	0.40		1			ECEPTACLES		
19	CONVENIENCE RECEPTACLES	15 A	1		0.60	0.40						1	20 A	COUNTER R	ECEPTACLES		
21	WORK WTSTWTATION (2)	20 A	1				0.60	0.40				1	20 A	COUNTER R	ECEPTACLES		
23	REAL RECEPTACLE	20 A	1						0.20	1.00		1	20 A	FRIDGE			
	REAL RECEPTACLE	20 A	1		0.20	1.00						1	20 A		UAD RECEPTACLE		
	DISHWASHER	20 A	1				0.50	0.20	-			1		COUNTER R	ECEPTACLE		
	LASER IN USE SIGN	15 A	1						0.10	1.00		1		EBB-1			
	NEW WETSINK	20 A	1		1.40	0.50		0.50				1		EBB-2			
33 35								0.50		0.50		2		208V RECEP	TAGLE		
35										0.50							
39																	
41																	
- 1			Tota	I Load:	6 12	kVA	3 80	kVA	4 60	kVA							
				Amps:		2 A		2 A		A	-						
	lassification		Total	лпрэ.		ted Load		d Factor	-	d Demand	Panel Totals						
														Fallel	10(015		
Lighting	J							.00%		6 VA			.	0	44504 \/A		
Power						0 VA		.00%	-					Conn. Load:			
	acle - Convenience					0 VA		00%		0 VA			Total	Est. Demand:			
	acle - Maintenance				100	0 VA	50.	00%	500) VA				Total Conn.:	40 A		
REC					140	0 VA	50.	00%	700) VA			Total	Est. Demand:	25 A		
NLU	D				150	0 VA	75	00%	112	5 VA							
HEATE	IN				100		10.	0070		• • • •							

Name: 2EC Location: EXAMINATION ROOM 205 Supply From: Serves: Notes: EXISTING PANEL					Volts: 208 hases: 3 Wires: 4	Y/120V	Mains Type: Mains Rating: 100 A Lugs:					Type: PANELBOARD AIC Rating: Mounting: SURFACE Enclosure: NEMA 1				
скт	Circuit Description	Trin	Poles	СВ		A		В		с	СВ	Poles	Trip	Ci	rcuit Description	
	LIGHTING	15 A	1		0.57	0.70						1	15 A			
	EXIT SIGNS	15 A	1				0.02	0.08				1		EF-2		
5										0.70		1		EF-3		
7																
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			Tota	I Load:	1.27	kVA	0.10	kVA	0.70) kVA						
			Total	Amps:	1'	I A	1	Α	7	' A						
_oad C	lassification				Connec	ted Load	Deman	d Factor	Estimate	d Demand				Panel	Totals	
ighting	1) VA		.00%	72	5 VA						
Other	, 					4 VA		.00%		4 VA			Tota	I Conn. Load:	2064 VA	
						1 1/1	100	.0070						Est. Demand:		
													TULA			
													T	Total Conn.:		
													Iotal	Est. Demand:	δA	
B Leg	gend (blank = circuit breaker):															
3 = GF	CI S = Shunt Trip D = Switching Duty	A = AFCI H	= HID F	Rated C	= HACR Ra	ted † = Existi	ng Circuit ±=	= Revised Ci	rcuit							
otes:																

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Stantec Name: 2E Location: EXHIBIT STG 207 Supply From: Serves: Notes: EXISTING PANEL					Volts: 208¥ hases: 3 Wires: 4	//120V		Mains Typ Mains Ratir Lug	ng: 225 A			Мс	Rating: ounting:	PANELBOAR SURFACE NEMA 1	D	
скт	Circuit Description		Poles	СВ	ļ		E	3		¢	СВ	Poles			rcuit Description	СК
	RECEPTACLE RM 023 & 028	20 A	1		0.40	0.50	2.42	0.50				2		DRYER		2
	GFI COUNTER RECEPTACLE	20 A	1				0.40	0.50	0.40	1.00				 WASHER		4
5 7	GFI COUNTER RECEPTACLE	20 A				0.10			0.40	1.00		1		DO NOT ENT	FRISIGN	8
9						0.10							10 A	DONOTEN	LIVOION	1
11																1
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23											-					24
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27																28
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31 33																32
35																3
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39																4(
41																42
				I Load:	1.00			kVA		kVA						
			Total	Amps:	8		8			2 A						
	Classification				Connect			d Factor		d Demand				Panel	Totals	
ighting	-				100			00%		5 VA						
	acle - Convenience				1400			00%) VA				Conn. Load:		
	acle - Housekeeping				800		50.0	00%) VA			Total	Est. Demand:		
REC					1000) VA	50.0	00%	500) VA				Total Conn.:	9 A	
													Total	Est. Demand:	5 A	
	gend (blank = circuit breaker): ^C CI S = Shunt Trip D = Switching Duty	A = AFCI H	= HID R	Rated C	= HACR Rate	ed †= Existi	 ng Circuit ‡=	- Revised Cir	cuit							

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 A. B. A. B. A. B. A. B. A. B. A. B. B.			1	2			3
 Handbard S. S.		1.0	PART 1 - GENERAL PROVISIONS		13.0	PART 13 - CUT	TING AND PATCHING
 Market of Control Control		1.1	PART OF THE CONTRACT DOCUMENTS AND SHALL BE READ IN CC	NJUNCTION WITH THEM. WORK SHALL INCLUDE THE	13.1		
 A A A A A A A A A A A A A A A A A A A A A A A A					13.2		
 Mark 1000 - Concernence of the second of the		1.2	CONTRACTOR. EXTRAS WILL NOT BE CONSIDERED BASED ON GRO	OUNDS OF DIFFERENCE IN INTERPRETATION OF	13.3		RING, ALL AREAS ARE TO BE IDENTIFIED, X-RAYED AND APPROVED BY
 A Martin Samo Samo Samo Samo Samo Samo Samo Samo		1.3					
 Construction of Construction of C	А	1.4			14.1	BOXES, BRACI	
 A. Martine Martin					14.2	SHALL BE TOU	CHED UP WITH MATCHING SPRAY-ON AIR DRY LACQUER AND IF REQU
 A. Martin B. Martin B.					14.3		
 A. M. A. M. MARTINE, M. A. M. M. M. M. M. A. M. A. M. A. M. A. M. A. M. A. M. M.					14.4		
 Here: Name of the second second		2.0	PART 2 - NOT USED				
 A. S. A. A.				E DONE TO MEET BASE BUILDING STANDARDS		TRANSFORME	RS BY PERMANENT LABELS DESCRIBED BELOW.
 A. LANDARD AND AND AND AND AND AND AND AND AND AN		3.2			15.2	ON BLACK BAC NAMETAGS TO	CKGROUND WHERE CALLED FOR ON THE DRAWINGS OR IN THE SPECI DE 9mm HIGH MINIMUM. 25mm HIGH LETTERS TO BE USED WHERE NO
 MARKAN DESCRIPTION MARKAN DESCRIPTIO			COMMENCEMENT OF ANY WORK. MAKE WRITTEN APPLICATION TO	D BUILDING OPERATOR AT LEAST 72 HOURS IN	15.3	PANEL BOARD	S: IDENTIFY PANELBOARDS AS SHOWN ON THE DRAWINGS AND INDIC
 A. Constraint of the second sec				RATION IN ACCORDANCE WITH THE BUILDING		DISCONNECT	SWITCHES, STARTERS AND CONTACTORS: INDICATE EQUIPMENT BEI
 Bell ND - COURSE AND AND AND AND AND AND AND AND AND AND		3.3			15.6	ON/OFF SWITC	CHES: INDICATE AREAS BEING SERVED.
 Construction of a set of proton of proton		3.4	FLOOR DRILLING AND CORING, IF ANY, TO BE CARRIED OUT ON TI TIMES AND LOCATIONS AS APPROVED BY THE OWNER.	HE PREMISES SHALL ONLY BE PERFORMED AT SUCH	15.8	DUPLEX RECE	PTACLES: ABOVE EACH RECEPTACLE PROVIDE NAMETAG WITH 3mm H
 Besseles Servers Servers		3.5			45.0	PROVIDE LAM	ACOID NAMETAG INDICATING VOLTAGE, PHASE, AMPS, CIRCUIT AND P
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 I 12.8 WHERE RECEPTACLES ARE MOUNTED ABOVE COUNTERS, BENCHES, BACK-SPLASH, ETC., LOCATION AND MOUNTING HEIGHTS TO BE CO-ORDINATED WITH THE BUILT-IN UNITS. REFER TO ARCHITECTURAL DETAILS. WHERE RECEPTACLES OCCUR IN OUTSIDE WALLS WHERE HEATING UNITS. RECEPTACLE HEIGHT TO BE ADJUSTED TO CO-ORDINATE WITH THE HEATING UNITS. I 2.9 ELECTRICAL CONTRACTOR TO CO-ORDINATE ANY INTERRUPTIONS TO ADJOINING WORK SPACES IN ORDER TO AVOID ANY INCONVENIENCES TO THE LANDLORD. IF NECESSARY, CONTRACTOR TO DO ANY REQUIRED CONNECTIONS ON OFF-HOURS. 		12.7	REQUIRED, TO CO-ORDINATE WITH PANELLING, DADOS, MASONRY WHERE OUTLETS OCCUR IN EXTERIOR WALLS, THE ELECTRICAL C	COURSE LINES, ETC.			
 WITH THE HEATING UNITS. 12.9 ELECTRICAL CONTRACTOR TO CO-ORDINATE ANY INTERRUPTIONS TO ADJOINING WORK SPACES IN ORDER TO AVOID ANY INCONVENIENCES TO THE LANDLORD. IF NECESSARY, CONTRACTOR TO DO ANY REQUIRED CONNECTIONS ON OFF-HOURS. 		12.8	WHERE RECEPTACLES ARE MOUNTED ABOVE COUNTERS, BENCHI HEIGHTS TO BE CO-ORDINATED WITH THE BUILT-IN UNITS. REFER	ES, BACK-SPLASH, ETC., LOCATION AND MOUNTING TO ARCHITECTURAL DETAILS. WHERE RECEPTACLES			
OFF-HOURS.		12.9	WITH THE HEATING UNITS. ELECTRICAL CONTRACTOR TO CO-ORDINATE ANY INTERRUPTIONS	S TO ADJOINING WORK SPACES IN ORDER TO AVOID			
				AUTUR TU DU ANY REQUIRED CONNECTIONS ON			
	:21 PM						
	<u>, 0</u>						

ORIGINAL SHEET - ISO A1 (594x841)

	4		5		6		
	22.6		ONS TO BE FLEXIBLE PLASTIC JACKETED, SE	AL TIGHT OR APPROVED EQUAL. FLEXIBL	E 34.0	PART 34 - VOICE/DATA CABLING SYSTEM	
PATCHING REQUIRED FOR THE ELECTRICAL HE CONSENT OF THE STRUCTURAL ENGINEEI	R.	CONDUIT CONNECTIONS ARE R PERMITTED IS 1 METER. WHERE THE FLOOR SLAB IS DR	EQUIRED TO ALL MOTORS FROM STUB-UPS ILLED FOR CONDUIT INSTALLATION TO WALL RILLED . AFTER CONDUIT INSTALLATION THE	OR JUNCTION BOXES. MAXIMUM LENGTH	I 34.1 GS THE	PROVIDE A MINIMUM 35mm CONDUIT IN WALL FROM DATA (ALL CONDUIT STUBS TO HAVE A CONNECTOR AND PLASTIC	
OTHER TRADES, THE ELECTRICAL CONTRAC OF THE TRADE CONCERNED AND THE	TOR		OF CONDUCTORS SHALL BE SEALED WITH		07.2	ALL DATA CABLING IN CEILING SPACE TO BE INSTALLED PA INSTALLED IN CONDUIT.	RALLEL
PPROVED BY THE STRUCTURAL ENGINEER.	22.8	IF THE FLOOR SLABS CONTAIN	FLOOR SLAB IS NOT PERMITTED WITHOUT P CAST-IN ELECTRICAL AND COMMUNICATION <u>CORING</u> . CO-ORDINATE WITH TRADES AND	S CONDUIT, X-RAYING OF CORE LOCATIO		ALL COMPONENTS TO BE CATEGORY 6A AND FROM ONE M ALL CABLES SHALL BE LABELED AT BOTH ENDS TO IDENTIF	
ANNEL FRAMES, CONDUIT RACKS, OUTLET	22.9	CEILING SPACE. SHOULD THE C	IDUIT IS STUBBED UP THROUGH THE FLOOR ONDUIT TERMINATE IN A PARTITION OR WAL UARE FLUSH WALL MOUNTING JUNCTION BO	L, THE CONDUIT SHALL TERMINATE ABO	VE 34.5	PROVIDE SELF-ADHESIVE POLYESTER LABEL ON COVERPL IDENTIFICATIONS.	
PAINT FINISH OVER CORROSION-RESISTANT			TLETS AS INDICATED ON THE DRAWINGS. BX			CONTRACTOR TO PERFORM CONTINUITY TESTS INCLUDIN CIRCUIT, POLARITY REVERSAL AND PAIR TRANSPOSITION,	
RATCHED OR MARKED DURING INSTALLATION AND IF REQUIRED TO PROVIDE A	22.10		ED ON CONCRETE SLABS AND CROSS STRU WITH BONDING JUMPER AND CLAMPS SHAL Z TYPE AX SERIES.			CAPACITANCE, SIGNAL TO NOISE RATIO, ATTENUATION, EA CROSS TALK. CONTRACTOR TO INCLUDE TEST RESULTS IN O&M MANUAI	
RM SYSTEM, TELEPHONE SYSTEM, ETC. FOR THE BASE BUILDING.	23.0 23.1		G WITH RW90 X-LINK OR R90 NYLON 600 VOLT	INSULATION AND BEAR CSA LABELLING.	34.8	COPY OF REPORT FOR REVIEW.	
	23.2		N NO 12 AWG SHALL BE USED FOR BRANCH HE CONTROL OR LOW VOLTAGE WORK TO BI		35.0	PART 35 - FIRE ALARM SYSTEM	
INCTION BOXES, ON/OFF SWITCHES AND	23.4	OR IN THE SPECIFICATIONS.	R CODED THROUGHOUT THE BUILDING IN A		35.1 EDULE	ELECTRICAL CONTRACTOR SHALL EXTEND THE EXISTIN INDICATED ON DRAWINGS AND SPECIFIED HEREIN. ALL FIRE ALARM SYSTEM WIRING SHALL BE INSTALLED I	
I ETCHED LETTERING GIVING WHITE LETTERS N THE SPECIFICATIONS. LETTERS ON D WHERE NOTED ON DRAWINGS. MECHANIC/	AL	.1 SYSTEM AND EQUIPM .2 NEUTRAL CONDUCTO	MENT GROUNDING CONDUCTOR: GREEN DR (SERVICE ENTRANCE OR XO POINT OF TR	RANSFORMERS): WHITE	35.3	CONDUCTORS SHALL BE RATED FOR THE EQUIPMENT A SHIELDED CONDUCTORS AS REQUIRED. PROVIDE NEW PULL STATION TO MATCH EXISTING FIRE A	PPLICAT
S AND INDICATE VOLTAGE. WHERE MS, NAMETAGS TO BE ATTACHED TO INSIDE	23.5		ORS: RED, BLACK AND BLUE. IPLETE WITH ANTI-SHORT BUSHINGS. BX CA D CEILINGS AND FOR SERVICING OF DEVICES			EXISTING FIRE ALARM SYSTEM AND CONNECT TO EXIST SYSTEM. IDENTIFY FIRE ALARM ZONE # ON RECORD DRA ELECTRICAL CONTRACTOR SHALL CONTACT THE BASE E	AWINGS.
IPMENT BEING CONTROLLED AND VOLTAGE.	23.7	METERS.	ICE BOX WITHIN THE PARTITION STUD WALL		3.0	CONTRACTOR AND PAY CHARGES LEVIED BY SAME FOR CONNECTION OF FIRE ALARM DEVICES TO THE EXISTING VERIFICATION OF SAME.	ALL DIS
ED ON DRAWINGS AND MAIN VOLTAGE OR	23.8	CONDUCTORS TO BE SIZED AS LIMITS OUTLINED IN THE CANAD			THE 35.5	PROVIDE AND PAY FOR THE SERVICES OF THE SYSTEM NECESSARY PROGRAM CHANGES AND/OR PROVIDE ALL REQUIRED FOR THIS WORK.	
WITH 3mm HIGH BLACK LETTERING ON WHIT IGNATION. ON ALL OTHER RECEPTACLES, RCUIT AND PANEL DESIGNATED.	E 23.9 23.10	IDENTIFIED CONDUCTORS IS NO	CONDUCTORS (WHITE) FOR EACH BRANCH ()T PERMITTED. IR LENGTH TABLE FOR CONTRACTOR'S CON		35.6	THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN COMP INSTALLATION OF FIRE ALARM SYSTEMS CAN-4-S524-01	AND THE
200mm OF PANEL LOCATIONS, PULLBOX		CONDUCTOR #12AWG		ENGTH OF RUN 120V	35.7	VERIFICATION OF INSTALLATION OF FIRE ALARM SYSTEM <u>SYSTEM INSPECTION</u> : THE ELECTRICAL CONTRACTOR SUPPLIER'S TECHNICAL STAFF OR TECHNICAL AGENT TO	AND FIR
OR NON-ACCESSIBLE CEILING SPACE, AND 50 OF PAINT APPLIED SO AS TO PROVIDE EASY TO FOLLOW BASE BUILDING STANDARD.		#10AWG #8AWG #6AWG	38m 61m 97m			INSPECTION TEST OF THE EXISTING AND NEW SYSTEM TO ENSURE THE FOLLOWING:	
RE LOCATED ABOVE REMOVABLE CEILINGS, PLATES TO BE PAINTED ON BOTH SIDES IN T	23.11 HE		ED FROM DIMMER: PROVIDE SEPARATE NEU LL BE MINIMUM 12 AWG.	ITRAL WIRE FOR EVERY CIRCUIT OR DIMN	/ING	.1 SYSTEM IS COMPLETE AND FUNCTIONAL IN ACCOUNT SPECIFICATIONS AND REGULATORY REQUIREMENT	
E LOCATED ON OR IN NON-REMOVABLE IFIED. INTERIOR FACES OF COVERPLATES TO		SEPARATE GROUND WIRES FOR	TACLES AND ISOLATED GROUND RECEPTAC REVERY CIRCUIT; NEUTRAL WIRES SHALL BE BROUND WIRES SHALL BE MINIMUM 12 AWG.		г	.2 SYSTEM IS INSTALLED IN ACCORDANCE WITH MAN RECOMMENDATIONS.	IUFACTI
		PART 24 - MECHANICAL WIRING				 .3 REGULATIONS COVERING CIRCUITRY SUPERVISIO .4 DURING THE PERIOD OF INSPECTION, AT A MINIMU 	
OORS REQUIRED FOR PROPER SERVICING O CESSARY FRAMES AND HINGED DOORS HELI THAN 3mm STEEL, PRIME COAT FINISHED AN	С	AND CONNECTIONS FOR ALL ME RELAYS, ETC. TO BE SUPPLIED	E, ELECTRICAL CONTRACTOR TO SUPPLY AN ECHANICAL EQUIPMENT. MOTOR PROTECTIO AND INSTALLED BY ELECTRICAL CONTRACTO SIZE, CHARACTERISTICS AND LOCATIONS OF	ON SWITCHES COMPLETE WITH OVERLOAD	D	AND ONE APPRENTICE TO ASSIST AS WELL AS ALL RADIOS, ETC.	
ID TO BE USED ONLY WITH THE		PART 25 - OUTLET BOXES	TLETS, INTERLOCKS, HEATERS, ETC.			.5 ALL AUXILIARY EQUIPMENT HAS BEEN CONNECTE.6 ON COMPLETION OF INSPECTION, AND ONLY AFTE	
ROVAL SHOP DRAWINGS OF ALL ELECTRICAL	25.1 25.2	, ,	MING TO CSA REQUIREMENTS. BOX, OTHERWISE NO 52171 OR NO. 72171 BC	DX AS PER CODE REQUIREMENTS.		COMPLETED, ELECTRICAL CONTRACTOR TO PROV THE ENGINEER STATING THAT THE SYSTEM INSPE FOR VERIFICATION.	
INCLUDE A COVER PAGE FOR STAMPING AND	25.3	BOXES FOR INDOOR SURFACE N SERIES 8300 COVERS.	MOUNTED EQUIPMENT, USE 4 IN. SQUARE TA	YLOR 52151 OR 52171 WITH TAYLOR OR 1	Г&В 35.8	PERFORMANCE VERIFICATION : THE ENGINEER WILL DIRECT THE PERFORMANCE VERIF	
AL DESIGN ONLY AND SHALL NOT RELIEVE BILITY FOR ERRORS, PROPER FITTING, PPROVAL SHALL NOT BE CONSTRUED AS IENTS IF SUCH DEPARTURES ARE NOT	25.4 25.5 25.6		SH MOUNTED IN ALL AREAS EXCEPT AS SPEC N WALLS, USE 4" SQUARE 52151 OR 52171 WI		.1	ACCORDANCE WITH CAN/ULC-S537-13, STANDARD FOR INSTALLATIONS.	
RAWINGS. ELECTRICAL CONTRACTOR SHALL	25.0 25.7 26.0	ALL OUTLET BOXES MOUNTED I	ES ALLOWED. N EXTERIOR WALL SHALL BE ENCLOSED IN Y	VAPOUR BARRIER POLY HATS.	.2	PRIOR TO REQUESTING PERFORMANCE VERIFICATION I ALARM SYSTEM IS FULLY OPERABLE AND THAT SUBSEC ON SYSTEM WILL NOT INVALIDATE EXAMINATIONS AND VERIFICATION PROCEDURE.	QUENT V
PLANS, DAY BY DAY, ALL OUTLETS, . ANY CHANGES TO THE CONTRACT WORK	26.1	ELECTRICAL CODE REQUIREME OR HINGED COVER AS INDICATI PULLBOXES IN FINISHED WALLS	ES AS REQUIRED TO SUIT JOB CONDITIONS. NTS AND BE FINISHED IN ENAMEL OVER COP ED. IN REMOVABLE CEILING AREAS, PULLBO AND PLASTER OR NON-REMOVABLE CEILING AINTED ON JOB TO MATCH WALL OR CEILING	RROSION-RESISTANT PRIMER WITH SCRE XES ARE TO BE INSTALLED ABOVE THE C GS TO HAVE OVERLAPPING TYPE TRIM W	W-ON .3 EILING.		IRING TH LOWS:
UTLETS TO WITHIN 3m OF POINTS INDICATED R IS ADVISED BEFORE INSTALLATION IS MADE	27.0	PART 27 - SUPPORTS	TRICAL EQUIPMENT, ETC. TO BE SECURELY			.2 DIS-ASSEMBLE AND RE-ASSEMBLE SYSTEM C	COMPON
EVATIONS FOR POSITIONS, AND MOUNTING ONES, ETC. POSITIONS SHOWN ON THE		WHERE INSERTS ARE REQUIRE	D IN CONCRETE, EXPANSION INSERTS, LEAD UPPORT INSERTS TO BE AN ENGINEERED ("I	D INSERTS, OR PLASTIC INSERTS ARE NO		.3 DISCONNECT AND RECONNECT WIRING..4 PERFORM REQUIRED FIELD ADJUSTMENTS.	
POSITIONS OR MOUNTING HEIGHTS SHOWN		SYSTEMS TO BE SIZED TO ACCO STRUCTURAL CONCRETE ONLY	OPMODATE THE LOAD, PLUS AN ADDITIONAL WITH THE PERMISSION OF THE ENGINEER.	L 50kg. SHOT DRIVEN PINS MAY USED IN		.5 REPLACE DEFECTIVE COMPONENTS.	
N BACK TO BACK BOXES. HERWISE ON DRAWINGS	28.0 28.1	THE CONTRACTOR SHALL SEAL	ALL OPENINGS IN THE FLOOR OR FIRE RATE FIRE BARRIER MATERIAL EQUAL TO THE RA			.6 PERFORM ALL OTHER WORK ON THE SYSTEM PROCEDURE.	/ REQUI
	29.0		E GROUNDING SYSTEM AS INDICATED AND A	AS REOLURED BY CANADIAN ELECTRICAL	CODE	ELECTRICAL CONTRACTOR TO INCLUDE IN HIS BASE BID SYSTEM VERIFICATION AND ANY ADDITIONAL COST TO C INSTALLATION TO MEET INTENT OF THE SPECIFICATION	HANGE
		AND ELECTRICAL INSPECTION E ALL COMPONENTS SHALL BE SE	DEPARTMENT. CURELY AND ADEQUATELY GROUNDED AND) WHERE REQUIRED TO ACCOMPLISH THIS		REQUIREMENTS. STANTEC CONSULTING LTD'S FEE FOR PERFORMANCE	VERIFIC
CKED FOR SATISFACTORY OPERATION. FORM MEGGER TESTS ON ALL FEEDERS AND REQUIREMENTS OF THE CANADIAN DRIZED INSPECTION AGENCY AND THE	29.3	ENSURE THAT ALL RACEWAYS,	DING STUDS AND BUSHINGS SHALL BE USED TERMINAL PANELS, ETC. FOR TELEPHONE, L ROUNDED AND PROVIDE GROUNDING COND	OW VOLTAGE, FIRE ALARM, SOUND, ETC.		THE ELECTRICAL CONTRACTOR SHALL CARRY THE COST THE ENGINEER.	T FOR F
IAL INSPECTION AND TAKEOVER, CHECK PANELS, ETC. THE TEST SHALL BE		BONDING CONDUCTOR.	M (TELECOMMUNICATION CONDUITS, ETC.) A			PANELBOARD DESIGNATION	
AREA AND CHECKING LOAD CURRENT CUITS TO BALANCE THE LOAD. N THIS PROJECT. ADJUST TAPS AS ±/-3%).	29.5 29.6	SHALL BE BONDED AS PER THE	ER THAN 1 METER IN LENGTH, CONTAINING / CANADIAN ELECTRICAL CODE. ORMER TO MAIN BUILDING GROUND IN ACCO		DUCTOR .	PNL-26EA INDIVIDUAL PANEL DESIGNATION	
JARANTEED BY THE GENERAL	30.0 30.1		ND WIRING FOR EXISTING PANELBOARDS SU			E = EMERGENCY (BLANK FOR NORMAL POWER)	
M DEFECTS OF MATERIAL AND WORKMANSHI	P 30.2	MATCH WITH EXISTING TYPE.	FORY OF PANEL LOADS AND AFFIX TO INSIDE			VOLTAGE 2 = 120/208V 4 = 277/480V	
E OF THIS WORK. PAIR AND REPLACE ALL SUCH DEFECTIVE ES DEFECTIVE DURING THE TERM OF THE	31.0	CONTRACT. PART 31 - WIRING DEVICES				6 = 347/600V FLOOR LEVEL SERVED	
NT ANY OTHER GUARANTEE OF A LONGER	31.1		L BE RATED AT 20 AMPS AT 120 VOLTS OR EC DUNTING HEIGHT SHALL MATCH EXISTING, U			(BLANK IF SINGLE FLOOR) CDP = CENTRAL DISTRIBUTION PANEL	
IERWISE INDICATED OR AS REQUIRED BY THE			TCHING TYPE OR EQUIVALENT. RECEPTACLI D-ORDINATE WITH ARCHITECTURAL FINISHE		STING,	PNL = BRANCH CIRCUIT PANELBOARD	
S MUST BE RAIN TIGHT (WET LOCATIONS L NOT BE PERMITTED).			ING DEVICES SHALL MATCH EXISTING TYPE THAN STANDARD 15 AMP DUPLEX RECEPTA AGE		/ING	DRAWINGS DEPICT GENERAL DEV REFER TO ARCHITECTURAL FLOOR	PLANS, E
T ENDS ARE TO BE PLUGGED TO PREVENT	31.5	ISOLATED GROUND RECEPTACL MAKE CONNECTION TO PANELB	AGE. .ES SHALL BE HUBBELL 5252IG OR EQUIVALE OARD GROUND WITH AN ISOLATED, INSULAT			DETAILS FOR EXACT L	
CORDANCE WITH CANADIAN ELECTRICAL	31.6)F	DRAWINGS. LED DIMMERS TO BE CSA APPR CAPABLE OF CONTROLLING LIG INTEGRAL ON/OFF SWITCH AT L	OVED SOLID STATE, SEMI-CONDUCTOR TYPE HT INTENSITY OVER THE COMPLETE RANGE OW END. UNITS TO BE SUITABLE FOR FLUSH	E FOR 120 VOLT, 60 Hz OPERATION FROM "OFF" TO "FULL BRIGHTNESS" WIT	н		
		CAPACITY: 600, 1000, 1500 WATT PART 32 - LUMINAIRES	г.				
		LUMINAIRES SCHEDULE:	FOR LUMINAIRE SCHEDULE.				

- REFER TO DRAWING E001 FOR LUMINAIRE SCHEDULE.
- 33.0 PART 33 EXIT LIGHTS / BATTERY OPERATED EMERGENCY LUMINAIRES
- 33.1 SUPPLY AND INSTALL EXIT LIGHTS AS SPECIFIED ON ELECTRICAL DRAWINGS. REFER TO ELECTRICAL DRAWINGS FOR EXIT/EMERGENCY LUMINAIRE SCHEDULE.

ATA OUTLET BOX TO CEILING SPACE. ASTIC BUSHING.

LED PARALLEL TO BUILDING LINES AND ONE MANUFACTURE.

DENTIFY OUTLET NUMBER. VERPLATE INDICATING CABLE

LUDING OPEN CIRCUIT, CLOSED SITION, D.C. LOOP RESISTANCE, MUTUAL ION, EAR END CROSS TALK, FAR END

ANUAL AND SUBMIT TO CONSULTANT A

ABLES IN 53mm CONDUIT.

XISTING FIRE ALARM SYSTEM AS LLED IN CONDUIT AND ALL

ENT APPLICATION. PROVIDE FIRE ALARM HORN/STROBE TO MATCH EXISTING AREA FIRE ALARM ZONE D DRAWINGS.

BASE BUILDING ELECTRICAL E FOR ALL DIS-CONNECTIONS AND FINAL ISTING FIRE ALARM SYSTEM AND

STEM MANUFACTURER TO MAKE THE DE ALL THE NECESSARY COMPONENTS

N COMPLIANCE WITH THE STANDARD FOR 524-01 AND THE STANDARD FOR SYSTEMS CAN-S537-04. CTOR AND FIRE ALARM EQUIPMENT

GENT TO CARRY OUT A COMPLETE STEM ON COMPLETION OF INSTALLATION ACCORDANCE WITH THE DRAWINGS,

MANUFACTURER'S

RVISION ARE ADHERED TO. MINIMUM PROVIDE ONE ELECTRICIAN AS ALL TOOLS, LADDERS, HOISTS,

NECTED AND IS OPERATIONAL. Y AFTER ALL OBVIOUS WORK HAS BEEN PROVIDE A WRITTEN STATEMENT TO INSPECTION IS COMPLETE AND READY

VERIFICATION OF FIRE ALARM SYSTEM IN FOR VERIFICATION OF FIRE ALARM

ATION BY ENGINEER, ENSURE THAT FIRE JBSEQUENT WORK TO BE PERFORMED S AND TESTS PERFORMED DURING

SYSTEM MANUFACTURER'S ES DURING THE VERIFICATION FOLLOWS:

IPMENT AND TOOLS. STEM COMPONENTS.

SYSTEM REQUIRED BY THE VERIFICATION

SE BID ALL COSTS FOR FIRE ALARM T TO CHANGE OR ALTER OPERATION OR ATION OR REGULATORY CODE

ANCE VERIFICATION IS \$1500.00, PLUS GST E COST FOR FIRE A ALARM VERIFICATION BY

> **DEVICE/CIRCUIT DESIGNATION** 26EA-2a

> > SWITCH NUMBER - PANEL FED FROM

RAL DEVICE LOCATIONS ONLY. FLOOR PLANS, ELEVATIONS AND EXACT LOCATIONS.



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Notes

