

TENDER 2016.06.08

EXISTING BUILDING RENOVATION RED DEER, ALBERTA

Stantec Project #: 144202775.210

ARCHITECT:

STANTEC ARCHITECTURE LTD

325 - 25 ST SE
CALGARY, AB
T2A 7H8

INDEX - ARCHITECTURAL	
NO.	DRAWING NAME
A402	ENLARGED PLANS
ARCHITECTURE	
A000	COVER
A001	GENERAL NOTES, LEGEND, CODE MATRIX, SCHEDULES AND ABBREVIATIONS
A105	ARCHITECTURAL SITE PLAN
A111	BASEMENT DEMOLITION & CONSTRUCTION PLANS
A151	BASEMENT DEMOLITION & CONSTRUCTION REFLECTED CEILING PLANS
A301	SECTIONS AND DETAILS
A401	ENLARGED PLANS
A403	INTERIOR ELEVATIONS
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STRUCTURAL ENGINEER:

STANTEC CONSULTING LTD.

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S101	FLOOR PLAN, SECTIONS AND DETAILS

MECHANICAL ENGINEER:

STANTEC CONSULTING LTD.

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ELECTRICAL ENGINEER:

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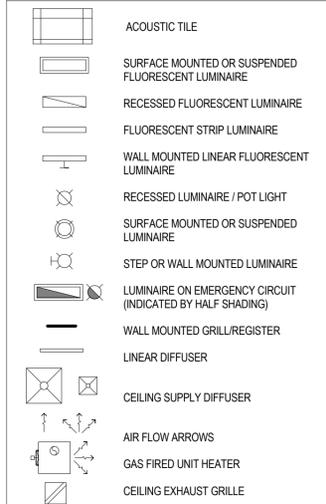




CEILING TYPES

- ACT-1 NEW T-BAR CEILING SYSTEM 610mm x 1220mm ACOUSTIC TILE C/W SUSPENSION SYSTEM
- SRP-1 -25mmx610mmx610mm SHREDDED RUBBER PLANKS
-19mm FIRE RATED TREATED PLYWOOD SHEATHING
-38x89mm FIRE RATED TREATED WOOD STRAPPING AT 400mm OC
- SC-1 -50mm OPEN CELL FOAM/ACOUSTICAL MATERIAL (AP-1)
-10mm AR500 STEEL ARMOUR PLATE PANEL
-13mm FIRE RATED TREATED PLYWOOD SHEATHING
-38x89mm FIRE RATED TREATED WOOD STRAPPING AT 400mm OC
- SW-1 -25mm GYPSUM BOARD SHAFTLINER
-101.6mm C-T OR C-H 25 GAUGE STEEL STUD @ 600mm OC MAX
-16mm TYPE X GYPSUM BOARD

CEILING LEGEND

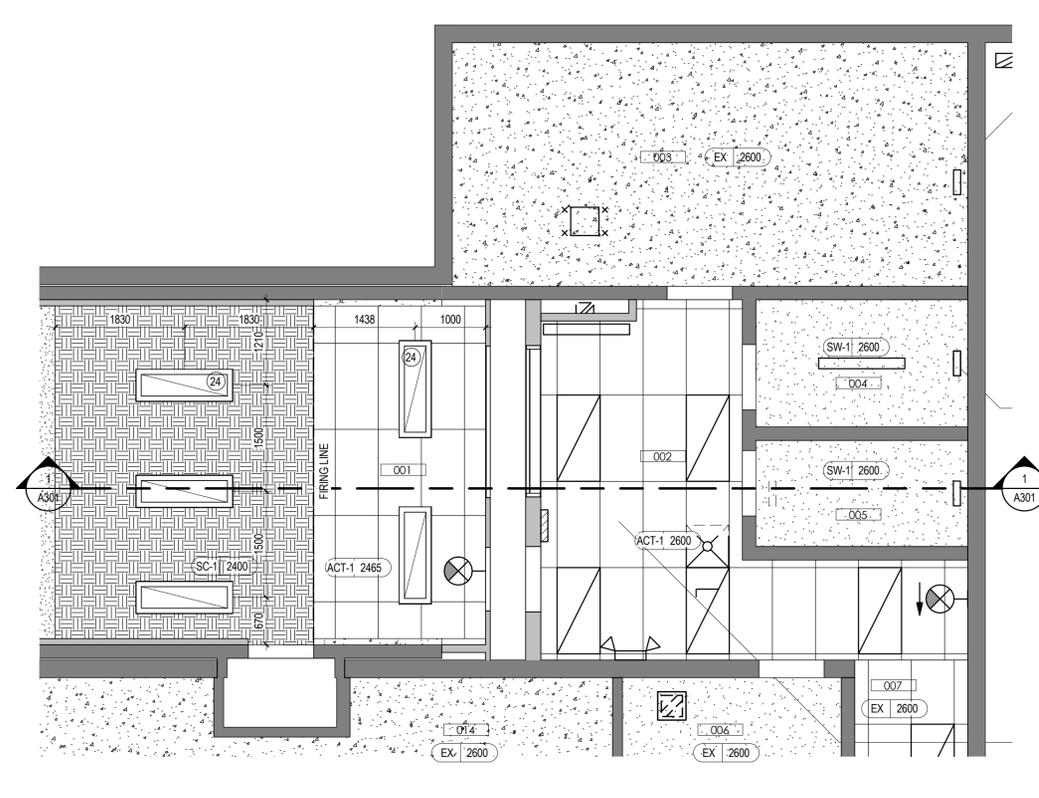
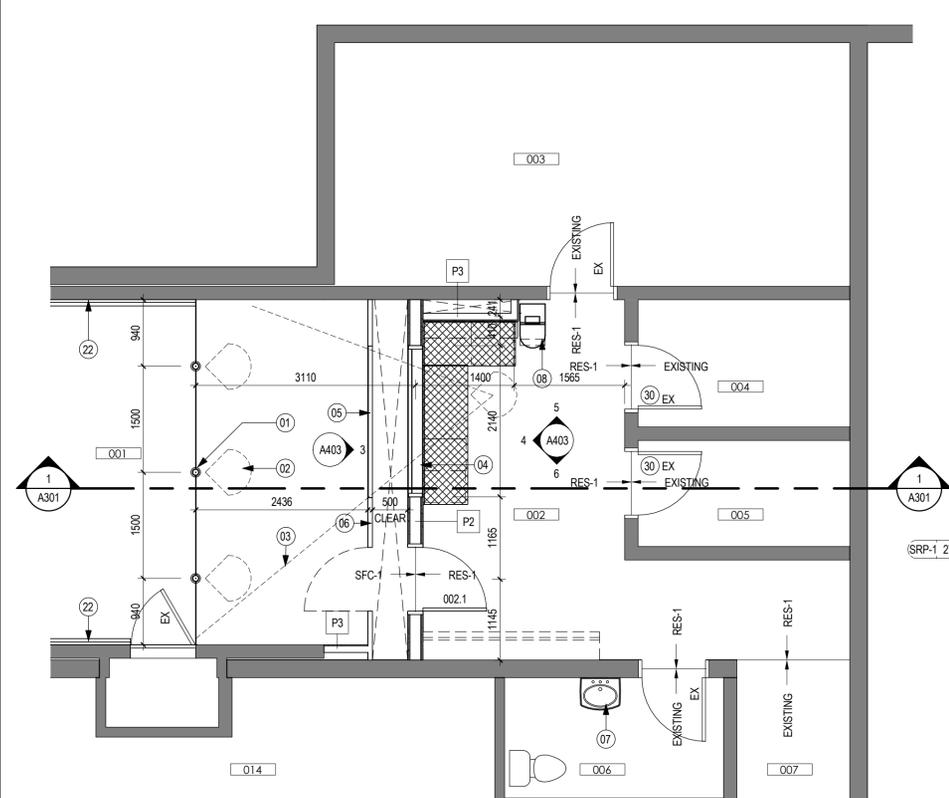


PARTITION TYPES

- P1 - TYPICAL INTERIOR PARTITION
60min FRR - U/LC DESIGN NO. W453
-16mm TYPE X GYPSUM BOARD
-92mm STEEL STUDS @ 400mm OC
-16mm TYPE X GYPSUM BOARD
- P2 - TYPICAL ACOUSTIC PARTITION
STC 59 PER ABC TABLE 9.10.3.1.A
-16mm TYPE X GYPSUM BOARD
-16mm TYPE X GYPSUM BOARD
-152mm STEEL STUDS @ 400mm OC C/W SOUND ATTENUATING BATT INSULATION
-16mm TYPE X GYPSUM BOARD
-16mm TYPE X GYPSUM BOARD
- P3 - TYPICAL FURRING WALL
-16mm TYPE X GYPSUM BOARD
-92mm STEEL STUDS @ 400mm OC

KEYNOTES GENERAL - A401 TO A403

NO.	DESCRIPTION
01	RECESSED FLOOR SLEEVE PROVIDE AT EACH SHOOTING STATION
02	POSITION OF SHOOTER
03	CONTROL ROOM FIELD OF VIEW
04	STC 55 SOUND CONTROL WINDOW
05	PERFORATED POLYCARBONATE LAMINAR AIR WALL
06	PERFORATED SHEET METAL LAMINAR AIRWALL
07	NEW EYE WASH TRIM ADDED TO EXISTING SINK TO REMAIN
08	GUN CLEANING TRAP
09	TASK SHELF C/W VALENCE LIGHTING
10	EXHAUST HOOD
11	COAT ROD & SHELF
12	BASE TYPICAL
13	AIR COMPRESSOR LOCATED IN CABINET PROVIDE VENT HOLES IN DOOR PANELS REFER TO TYPICAL DETAIL
14	NEW CONCRETE FILLED STEEL BOLLARD REFER TO DETAIL 7/A601
15	NEW MECHANICAL AIR HANDLING UNIT ON GALVANIZED STEEL SUPPORT FRAME
16	EXTERIOR INSULATED MECHANICAL DUCT ON SLEEPERS
17	NEW CHAIN LINK FENCE REFER TO DETAIL 8/A601
18	CAST-IN-PLACE REINFORCED CONCRETE FOUNDATION WALL
19	OPEN STEEL GRATING
20	EXISTING MAN DOOR TO REMAIN OPERATIONAL DURING INSTALLATION OF NEW MECHANICAL WELL. DOOR FRAME TO BE UPGRADED TO ACHIEVE A 45 MINUTE FIRE RESISTANCE RATING. PROVIDE WEATHERSTRIPPING AND CLOSURE TO MATCH DOOR 002.4
21	COMPUTER STORAGE. PROVIDE VENT HOLES IN DOOR PANEL REFER TO TYPICAL DETAIL
22	COMBAT WALL PLATE CONSISTING OF 25mm RUBBER FACING W/ 10mm AR500 ARMOUR BACKING PLATE ON 13mm FIRE RATE PLYWOOD SHEATHING AND FIRE RATED 38x89mm WOOD STRAPPING LAY ON LONG EDGE @ 400mm OC TO EXTEND FROM FIRING LANE TO BULLET TRAP SIDEWALLS TO 2440mm IN HEIGHT
23	EXISTING FENCE TO BE DEMOLISHED
24	SURFACE MOUNTED LIGHT FIXTURE
25	TEMPORARY CONSTRUCTION HOARDING
26	TEMPORARY SHORING AS REQUIRED
27	CONCRETE PAD
28	PROVIDE NEW TOP SOIL, SOD AND SLOPE AWAY FROM BUILDING MINIMUM 2%, TIE INTO EXISTING GRADES AND CURBS
29	EXISTING TREE TO BE DEMOLISHED TO ALLOW FOR INSTALLATION OF NEW MAU
30	CONTRACTOR TO HAVE EXISTING DOOR AND FRAME TESTED AND UPGRADED TO RECEIVE A 45 MINUTE FIRE RESISTANCE LABEL
31	EXISTING GENERATOR FUEL FILL STATION
32	EXISTING CONCRETE SIDEWALK TO BE DEMOLISHED
33	EXISTING CONCRETE SIDEWALK TO BE REMAIN



1 ENLARGED ROOM 002 PLAN
A402 1:50

2 ENLARGED ROOM 002 REFLECTIVE CEILING PLAN
A402 1:50

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Legend

Notes

Revision table with columns: Revision, By, Appd, YYYY.MM.DD

Permit-Seal section containing a signature, date (08-Jun-2016), permit number (P 0258), and the Association of Professional Engineers and Geoscientists of Alberta logo.

Client/Project: GOVERNMENT OF CANADA
EXISTING BUILDING RENOVATION
RED DEER, ALBERTA

Title: DESIGN NOTES

Project No. 144202775.210 Scale 1:1
Revision Drawing No.

Sheet 1 of 2 S001

CLIMATIC INFORMATION table with columns for load type and value (e.g., SNOW LOAD (1/50), Ss: 1.8 kPa)

SITE INFORMATION table with columns for category and value (e.g., IMPORTANCE CATEGORY: HIGH)

STANDARD STRUCTURAL DRAWING ABBREVIATIONS

Large table of structural drawing abbreviations with columns for symbol, description, and location.

- CONCRETE REINFORCEMENT
1. REINFORCEMENT STEEL TO CONFORM TO CSA-G30.18 GRADE 400.
2. DO NOT WELD REINFORCEMENT UNLESS APPROVED IN WRITING BY THE ENGINEER...

- CONCRETE FORMWORK
1. DESIGN, FABRICATION, ERECTION, AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CAN/CSA-S269.3.
2. PROVIDE 100mm VOID FORM BELOW ALL STRUCTURAL SLABS AT GRADE, WALLS, GRADE BEAMS, PILE CAP, AND WHERE SHOWN ON THE DRAWINGS...

- STRUCTURAL STEEL
1. DESIGN, FABRICATION, ERECTION, AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CSA-S16 AND THE CISC CODE OF STANDARD PRACTICE FOR STRUCTURAL STEEL.
2. STEEL TO BE FABRICATED AND ERECTED BY A SHOP CERTIFIED BY THE CANADIAN WELDING BUREAU TO THE REQUIREMENTS OF CSA-W47.1, DIVISION 1 OR 2.1 ONLY.

- MASONRY
1. DESIGN, FABRICATION, ERECTION, AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CSA-S304.1 AND CAN/CSA-A118.1.
2. CONCRETE BLOCK TO CONFORM TO CAN/CSA-A165 WITH A MINIMUM COMPRESSIVE STRENGTH OF 15 MPa BASED ON THE NET CROSS-SECTIONAL AREA OF THE UNITS WITH VOIDS.

- DESIGN NOTES
GENERAL
1. ALL CODES REFERENCED ARE TO BE THE LATEST VERSION AT THE DATE OF ISSUE.
2. DESIGN IS BASED ON THE NATIONAL BUILDING CODE 2010.

- EXISTING STRUCTURES
1. THE STRUCTURAL DESIGN IS BASED ON INFORMATION GATHERED FROM THE RECORD DRAWINGS AND FROM LIMITED VISUAL OBSERVATIONS ON SITE.
2. VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS ON SITE PRIOR TO IMPLEMENTING AFFECTED WORK.

- DESIGN LOADS
1. UNLESS NOTED OTHERWISE, THE LOADS NOTED IN TABLES AND ON DRAWINGS ARE UNFACTORED.
2. CLIMATIC INFORMATION REFER TO CLIMATIC INFORMATION TABLE

- LATERAL LOADS FROM WIND AND SEISMIC LOADS ARE RESISTED BY THE MASONRY SHEAR WALLS.
5.1. LATERAL LOADS FROM WIND AND SEISMIC LOADS ARE RESISTED BY THE MASONRY SHEAR WALLS.
5.2. SEE FORCE MODIFICATION FACTORS TABLE.

- DELEGATED DESIGN
1. PORTIONS OF THE DETAILED DESIGN ARE DELEGATED TO THE CONTRACTOR. RETAIN A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ALBERTA TO COMPLETE THE DESIGN.
2. SUBMIT SHOP DRAWINGS FOR COMPONENTS REQUIRING DELEGATED DESIGN UNDER THE SEAL AND SIGNATURE OF THE ENGINEER RESPONSIBLE FOR THE DESIGN.

- FOUNDATION AND GEOTECHNICAL NOTES
1. FOUNDATION DESIGN IS BASED ON AN ALLOWABLE BEARING PRESSURE OF 150 kPa PER THE EXISTING BUILDING DRAWINGS. A GEOTECHNICAL ENGINEER TO CONFIRM PRIOR TO COMMENCING WITH FOUNDATION WORK.
2. REMOVE ALL ORGANIC MATERIAL FROM THE BUILDING AREA AS OUTLINED IN GEOTECHNICAL REPORT.

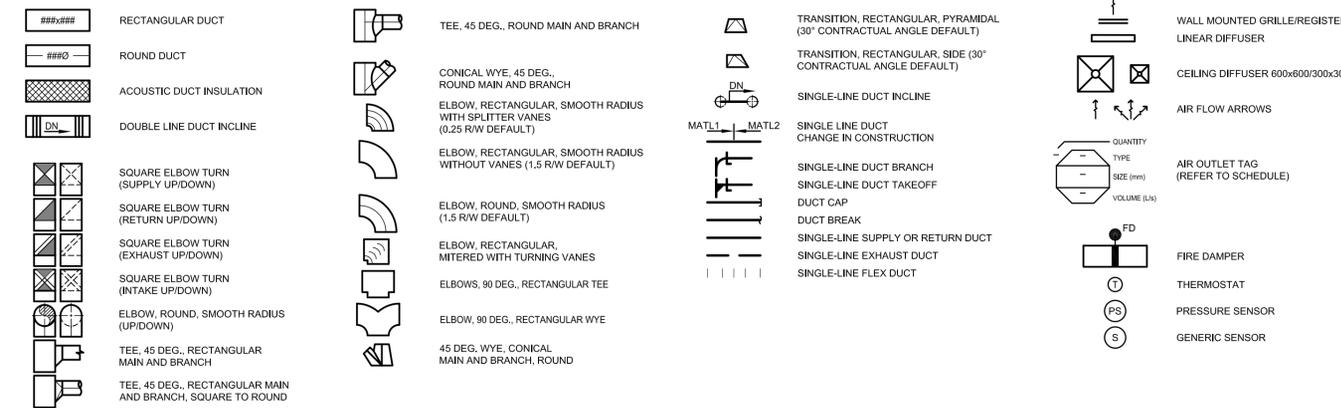
- CAST-IN-PLACE REINFORCED CONCRETE
1. CONCRETE MATERIALS, QUALITY, MIXING, PLACING, FORMWORK AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CSA-A23.1.
2. SUPPLY CONTROLLED CONCRETE IN ACCORDANCE WITH CSA-A23.1 WITH PROPERTIES NOTED IN CONTROLLED CONCRETE TABLE.

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Revision	By	Appd	YYYY.MM.DD
ISSUED FOR TENDER	JPH	GH	2016.06.08
ISSUED FOR PRE-TENDER CLIENT REVIEW	JPH	GH	2016.04.22
ISSUED FOR 99% REVIEW	JPH	GH	2016.03.02

PERMIT TO PRACTICE
STANTEC CONSULTING LTD.
Signature: *June 8, 2016*
Date: *June 8, 2016*
PERMIT NUMBER: P 0258
The Association of Professional Engineers, Geologists and Geophysicists of Alberta

HVAC SYMBOLS

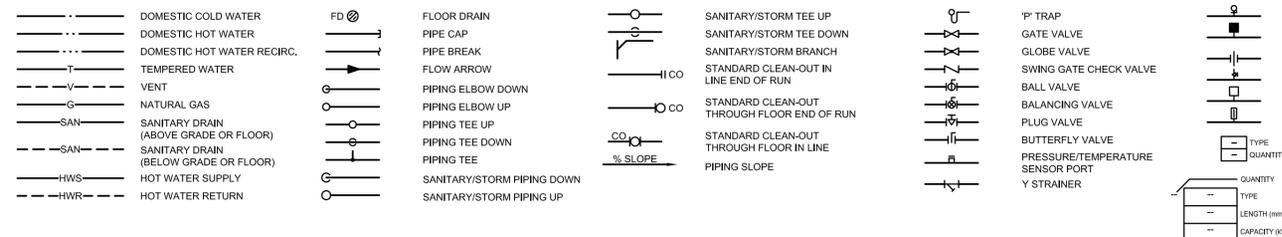


DRAWING No.	DRAWING NAME	SCALE
M001	MECHANICAL LEGEND, SCHEDULES & DRAWING LIST	N.T.S.
M010	MECHANICAL SITE PLAN & ROOF PLAN	1:150
M101	BASEMENT - VENTILATION DEMOLITION & RENOVATION PLANS	1:100
M102	BASEMENT - PLUMBING & HEATING DEMOLITION & RENOVATION PLANS	1:100
M201	MECHANICAL SECTIONS	1:50
M301	MECHANICAL DETAILS	N.T.S.
M302	MECHANICAL DETAILS	N.T.S.

DESCRIPTION	kW
MAKEUP AIR UNIT MUA-1	400.6
EXISTING LOADS	1250.0
TOTAL	1650.6

NOTE: DISTRIBUTION GAS PRESSURE IS 2.48 kPa. PROVIDE PRESSURE REDUCING VALVES AS INDICATED FOR APPLIANCE REQUIRED PRESSURES. VENT ALL PRV'S TO ATMOSPHERE.

PIPING IDENTIFICATION AND SYMBOLS



ABBREVIATIONS

EQUIPMENT	COMMON
EXHAUST FAN	EF-*
MAKEUP AIR UNIT	MUA-*
SEGMENT INTERCEPTOR	SI-*
SUPPLY FAN	SF-*
ROOF DRAIN	RD-*
FLOOR DRAIN	FD-*
EMERGENCY EYEWASH	EW-*
A.F.F.	ABOVE FINISHED FLOOR
C.W.	COMPLETE WITH
EXIST	EXISTING
ELEV.	ELEVATION
INV.	INVERT
SAN	SANITARY
ST	STORM

PLUMBING FIXTURES

PLUMBING FIXTURE TAG (REFER TO SCHEDULE)	
--	--

TAG No.	MANUFACTURER	MODEL No.	SERVICE	MOTOR				HEATING			FILTERS			REMARKS				
				CAPACITY (L/s)	EXT. STATIC PRESS. (Pa)	W	V/Ph/Hz	EMERG. POWER (Y/N)	INPUT CAPACITY (kW)	OUTPUT CAPACITY (kW)	TEMP RISE (°C)	PRE (Y/N)	MERV		TYPE	FINAL (Y/N)	MERV	TYPE
MUA-1	ENGINEERED AIR	HE1310	ROOM 001	5.334	625	11.2	208/3/60	N	400.6	400.6	61.1	Y	8	PANEL	Y	13	PANEL	MUA TO BE ENERGIZED & MONITORED BY BAS; OPERATION INTERLOCKED WITH EXHAUST FAN EF-1; UNIT TO BE MOUNTED ON 600mm HIGH STAND

TAG No.	MANUFACTURER	MODEL No.	SERVICE	TYPE	MOUNTING ARRANGEMENT	AIR FLOW (L/s)	EXT. STATIC PRESS. (Pa)	ELECTRICAL			SONES	REMARKS	
								MOTOR (kW)	MOTOR RPM	V/Ph/Hz			
EF-1	GREENHECK	USF-430-AF	ROOM 001	SINGLE WIDTH BLOWER	UP DISCHARGE	5,900	1590	14.9	1732	208/3/60	N	41.0	FAN TO BE SUITABLE FOR OUTDOOR INSTALLATION; DISCHARGE POSITION - BAU; OPERATION INTERLOCKED WITH MAKE-UP AIR UNIT MUA-1 & MOTORIZED DAMPER
EF-2	GREENHECK	SQ-99-VG	CLEANING STATION	DIRECT DRIVE CENTRIFUGAL	INLINE	283	140	186	1537	120/1/60	N	11.5	CW VIBRATION ISOLATION, POTENTIOMETER ON MOTOR; CONTROLLED BY SWITCH; INTERLOCKED WITH MOTORIZED DAMPER

FIXTURE TAG	TYPE	FIXTURE CONNECTIONS (mm)					DESCRIPTION
		DCW	DHW	DTHW	DRAIN	VENT	
LAV-1	GOOSENECK LAVATORY FAUCET	-	-	15	-	-	DELTA MODEL 063020A DECKMOUNT STANDARD GOOSENECK SPOUT ASSEMBLY, POLISHED CHROME PLATED FINISH; DELTA MODEL 060726A 1.9 LPM (0.5 GPM) VANDAL RESISTANT NON-AERATING OUTLET; DELTA MODEL 061269A ESCUTCHEON, POLISHED CHROME PLATED FINISH.
EW-1	EMERGENCY EYEWASH	15	15	15	-	-	BRADLEY MODEL S19-2008 FAUCET MOUNT EYEWASH, CHROME PLATED BRASS SPRAYHEAD ASSEMBLY WITH TWIN SOFT FLOW EYEWASH HEADS AND HIGH VISIBLE YELLOW PLASTIC PROTECTIVE COVERS, INTEGRAL FLOW CONTROL, CHROME PLATED BRASS ADAPTER WITH AERATED FLOW REPLACES FAUCET AERATOR, STANDARD THREAD, CHROME PLATED DIVERTER ATTACHES TO ADAPTER, MEETS ANSI Z358.1 REQUIREMENTS, BRADLEY MODEL S19-2000 EMERGENCY THERMOSTATIC MIXING VALVE, LIQUID FILLED THERMOSTAT, ADJUSTABLE SET POINT WITHIN TEMPERATURE RANGE, CHECKSTOPS ON INLETS, BUILT-IN COLD WATER BYPASS, DIAL THERMOMETER, MEETS ANSI Z358.1 REQUIREMENTS; SURFACE MOUNTED STAINLESS STEEL CABINET, 18 GAUGE BODY & DOOR, CYLINDER LOCK.

GRILLE TYPE	DESCRIPTION
S-1	E.H. PRICE MODEL SPD STEEL SQUARE CEILING DIFFUSER; DIFFUSERS TO BE SUITABLE FOR SURFACE MOUNTING OR T-BAR LAY-IN (FRAME TYPE 31); 600/600 MODULE SIZE; FINISH SHALL BE B12 WHITE POWDER COAT; REFER TO DRAWINGS FOR NECK SIZES AND CAPACITIES.
T-1	E.H. PRICE MODEL 520 STEEL DOUBLE DEFLECTION GRILLE; 19mm (3/4") BLADE SPACING; FRONT BLADES TO BE PARALLEL TO LONG DIMENSION; GRILLES TO BE SUITABLE FOR SURFACE MOUNTING (BORDER STYLE F); FINISH SHALL BE B12 WHITE POWDER COAT; REFER TO DRAWINGS FOR GRILLE SIZES & CAPACITIES.
E-1	E.H. PRICE MODEL 530 FIXED LOUVER, 45° DEFLECTION, 19mm (3/4") BLADE SPACING, FRONT BLADES PARALLEL TO THE LONG DIMENSION; NARROW (TYPE N) BORDER, WHITE POWDER COAT FINISH.

NOTES:

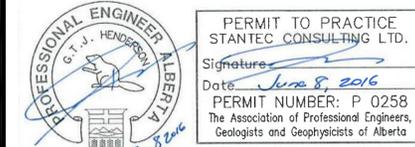
- COLORS AS SELECTED BY THE ARCHITECT. CONFIRM COLOR SELECTIONS PRIOR TO ORDERING
- GRILLES, DIFFUSERS AND REGISTERS PROVIDED SHALL CONFORM TO ARCHITECTURAL AND STRUCTURAL DETAILING. CONFIRM THE FOLLOWING:
 - ARCHITECTURAL CEILING GRID MEASUREMENTS
 - STRUCTURAL ROUGH OPENING SIZES RELATIVE TO GRILLE SIZES
- ALL GRILLES, DIFFUSERS AND REGISTERS CONNECTED TO DUCTS ARE TO BE PROVIDED WITH MANUAL DAMPERS AT DUCT CONNECTIONS EXCEPT WHERE MANUAL DAMPERS ARE SPECIFIED INTEGRAL TO GRILLES.

TAG No.	LOCATION	MANUFACTURER	MODEL No.	TANK SIZE (L)	TANK CONFIGURATION	CAPACITY @ 620 kPa (L/s)	MAX. PRESS. (kPa)	MOTOR (kW)	V/Ph/Hz	ACCESSORIES & REMARKS
AC-01	ROOM 002	PORTER CABLE	C2002	23	PANCAKE	1.23	1034	0.60	120/1/60	CW QUICK COUPLING, FLEXIBLE HOSE & BLOW GUN

SERVICE	LOCATION	MANUFACTURER	MODEL No.	FILTER TYPE	TOTAL AIR FLOW (L/s)	FILTER BANK SIZE (mm x mm)	PRESSURE DROP (Pa)	INITIAL (Pa)	FINAL (Pa)	COMMENTS
RANGE EXHAUST	EXTERIOR	CAMFIL	FILTRA 2000 ABSOLUTE	HEPA MERV 18	5,900	1970W x 1945H	250	600		FILTERS TO BE LOCATED IN A FILTER HOUSING EQUAL TO CAMFIL MAGNA/PACK; HOUSING TO BE SIZED FOR 3 FILTERS HIGH x 3 FILTERS WIDE; HOUSING TO BE CW PREFILTER RACK; INSULATION AND STAINLESS STEEL CONSTRUCTION FOR EXTERIOR INSTALLATION
RANGE EXHAUST	EXTERIOR	CAMFIL	3030	MERV 8	5,900	1970W x 1945H	75	250		



ISSUED FOR TENDER	JPH	GH	2016.06.08
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ISSUED FOR 99% REVIEW	JPH	GH	2016.03.02
Issued	By	Appd	YYYY.MM.DD



- GENERAL NOTES**
- ALL NEW EQUIPMENT, DUCTS AND PIPING ARE TO BE COORDINATED WITH EXISTING DUCTS, PIPING, ELECTRICAL EQUIPMENT AND CONDUIT, AND STRUCTURE. INSTALL ALL NEW WORK AS TIGHT TO UNDERSIDE OF STRUCTURE AS POSSIBLE WHILE AVOIDING ANY CONFLICTS.
 - VENT ALL FIXTURES IN ACCORDANCE WITH THE NATIONAL PLUMBING CODE.
 - PROVIDE TRAP PRIMERS TO ALL DRAINS AS PER MECHANICAL SPECIFICATIONS.
 - ALL PLUMBING FIXTURES TO HAVE ISOLATION VALVES.
 - INDIVIDUAL FIXTURE PIPE SIZES AS PER PLUMBING FIXTURE SCHEDULE.

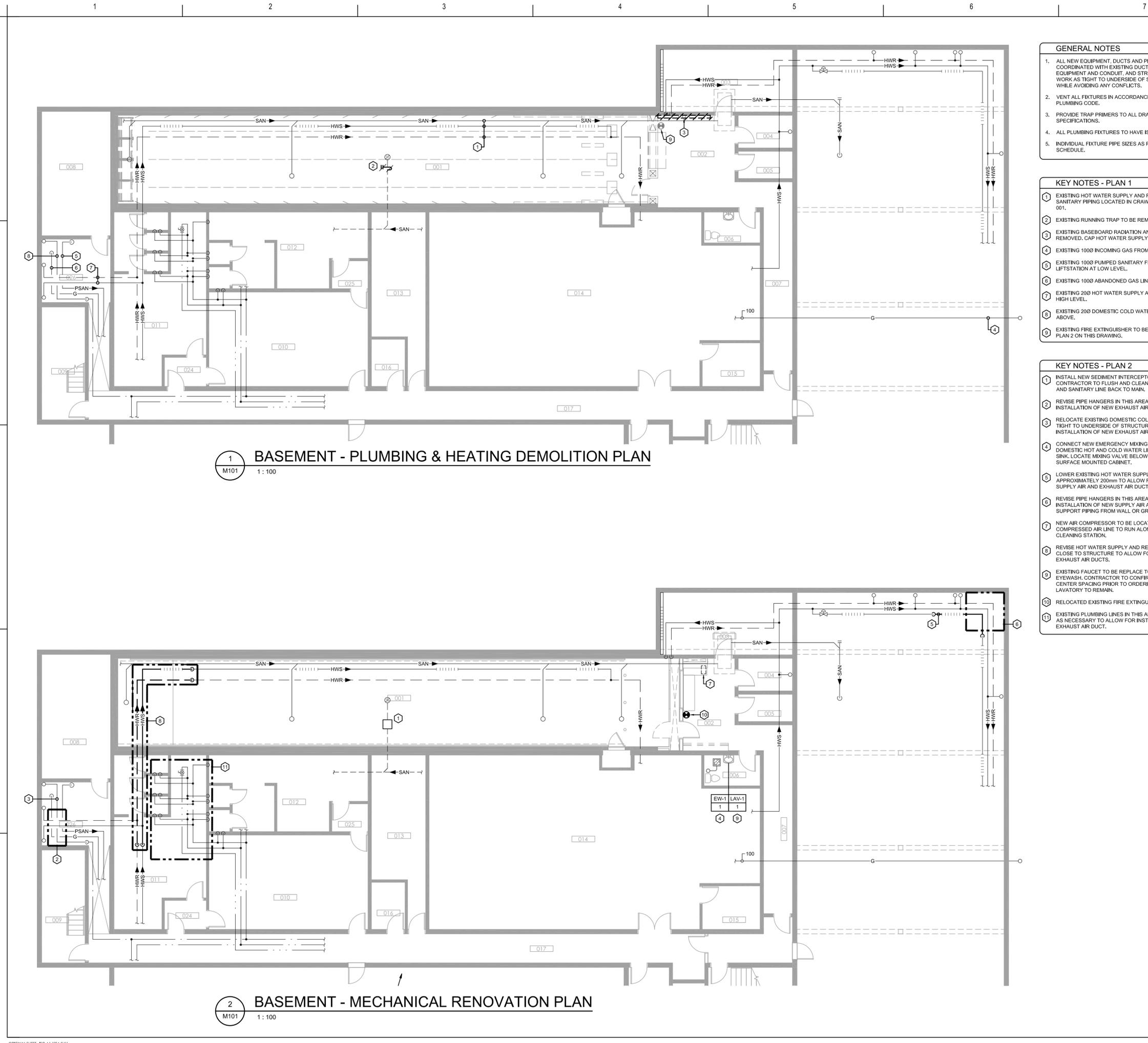
- KEY NOTES - PLAN 1**
- EXISTING HOT WATER SUPPLY AND RETURN PIPING AND SANITARY PIPING LOCATED IN CRAWLSPACE ABOVE ROOM 001.
 - EXISTING RUNNING TRAP TO BE REMOVED.
 - EXISTING BASEBOARD RADIATION AND CABINET TO BE REMOVED. CAP HOT WATER SUPPLY AND RETURN AT RISERS.
 - EXISTING 1000 INCOMING GAS FROM METER AT GRADE.
 - EXISTING 1000 PUMPED SANITARY FROM SANITARY LIFTSTATION AT LOW LEVEL.
 - EXISTING 1000 ABANDONED GAS LINE.
 - EXISTING 200 HOT WATER SUPPLY AND RETURN LINES AT HIGH LEVEL.
 - EXISTING 200 DOMESTIC COLD WATER SERVING HOSE BIBB ABOVE.
 - EXISTING FIRE EXTINGUISHER TO BE RELOCATED. REFER TO PLAN 2 ON THIS DRAWING.

- KEY NOTES - PLAN 2**
- INSTALL NEW SEDIMENT INTERCEPTOR. MECHANICAL CONTRACTOR TO FLUSH AND CLEAN EXISTING FLOOR DRAIN AND SANITARY LINE BACK TO MAIN.
 - REVISE PIPE HANGERS IN THIS AREA TO ALLOW FOR INSTALLATION OF NEW EXHAUST AIR DUCT.
 - RELOCATE EXISTING DOMESTIC COLD WATER LINE TO BE TIGHT TO UNDERSIDE OF STRUCTURE TO ALLOW FOR INSTALLATION OF NEW EXHAUST AIR DUCT.
 - CONNECT NEW EMERGENCY MIXING VALVE TO EXISTING DOMESTIC HOT AND COLD WATER LINES SERVING EXISTING SINK. LOCATE MIXING VALVE BELOW EXISTING LAVATORY IN SURFACE MOUNTED CABINET.
 - LOWER EXISTING HOT WATER SUPPLY SERVING CRAWL SPACE APPROXIMATELY 200mm TO ALLOW FOR INSTALLATION OF NEW SUPPLY AIR AND EXHAUST AIR DUCTS.
 - REVISE PIPE HANGERS IN THIS AREA TO ALLOW FOR INSTALLATION OF NEW SUPPLY AIR AND EXHAUST AIR DUCT. SUPPORT PIPING FROM WALL OR GRADE AS NECESSARY.
 - NEW AIR COMPRESSOR TO BE LOCATED BELOW MILLWORK. COMPRESSED AIR LINE TO RUN ALONG BACK OF COUNTER TO CLEANING STATION.
 - REVISE HOT WATER SUPPLY AND RETURN PIPING TO RUN CLOSE TO STRUCTURE TO ALLOW FOR INSTALLATION OF NEW EXHAUST AIR DUCTS.
 - EXISTING FAUCET TO BE REPLACE TO SUIT NEW EMERGENCY EYEWASH. CONTRACTOR TO CONFIRM FAUCET CENTER TO CENTER SPACING PRIOR TO ORDERING FAUCET. EXISTING LAVATORY TO REMAIN.
 - RELOCATED EXISTING FIRE EXTINGUISHER TO THIS LOCATION.
 - EXISTING PLUMBING LINES IN THIS AREA ARE TO BE REROUTED AS NECESSARY TO ALLOW FOR INSTALLATION OF THE EXHAUST AIR DUCT.

1 BASEMENT - PLUMBING & HEATING DEMOLITION PLAN
M101 1:100

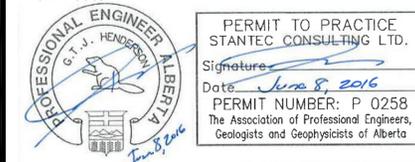
2 BASEMENT - MECHANICAL RENOVATION PLAN
M101 1:100

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Revision	By	Appd	YYYY.MM.DD
ISSUED FOR TENDER	JPH	GTH	2016.06.08
ISSUED FOR PRE-TENDER CLIENT REVIEW	JPH	GTH	2016.04.22
ISSUED FOR 99% REVIEW	JPH	GTH	2016.03.02
Issued	By	Appd	YYYY.MM.DD

Permit-Seal



Client/Project
GOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

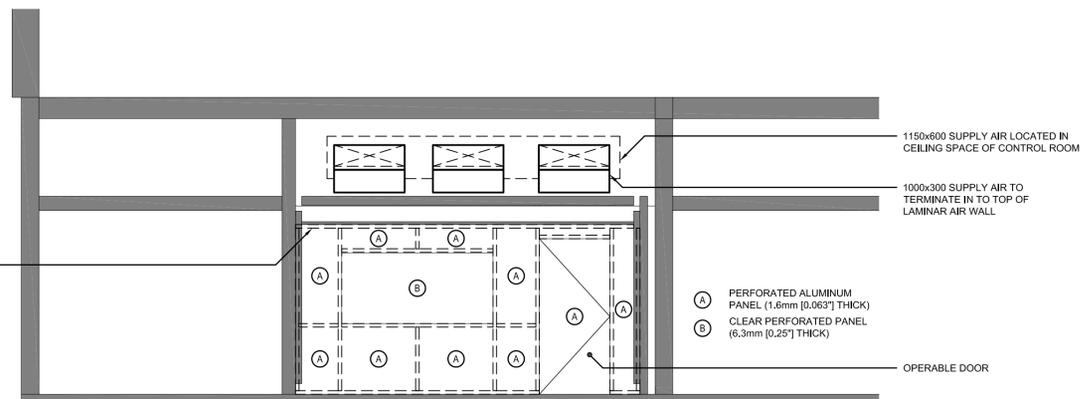
RED DEER, ALBERTA

Title
MECHANICAL SECTIONS

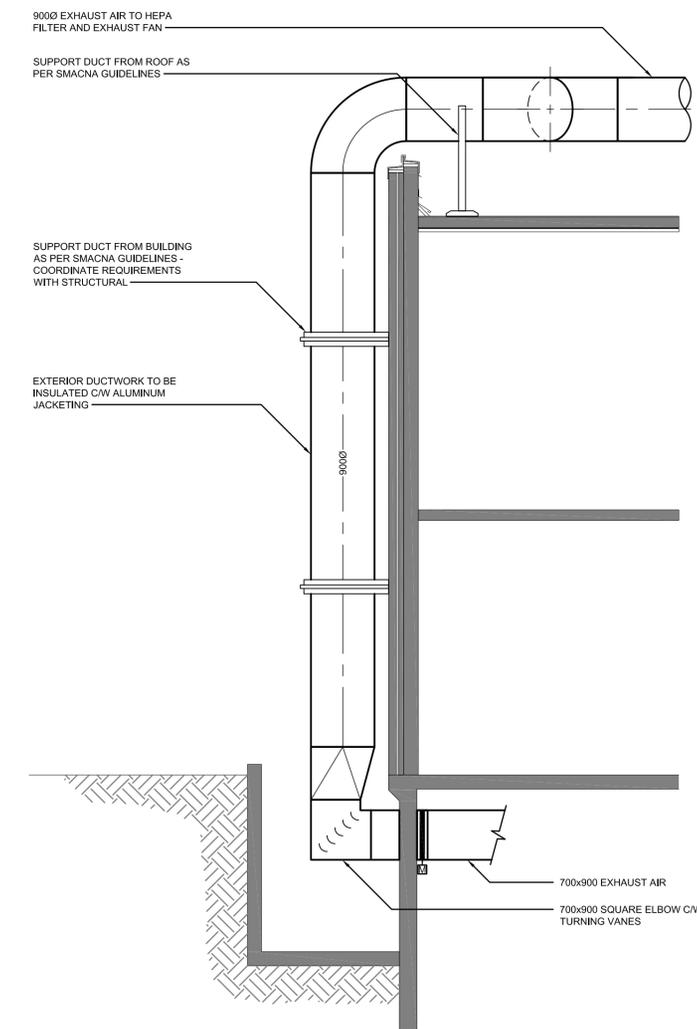
Project No. 144202775.210 Scale 1:50

Revision 00 Drawing No.

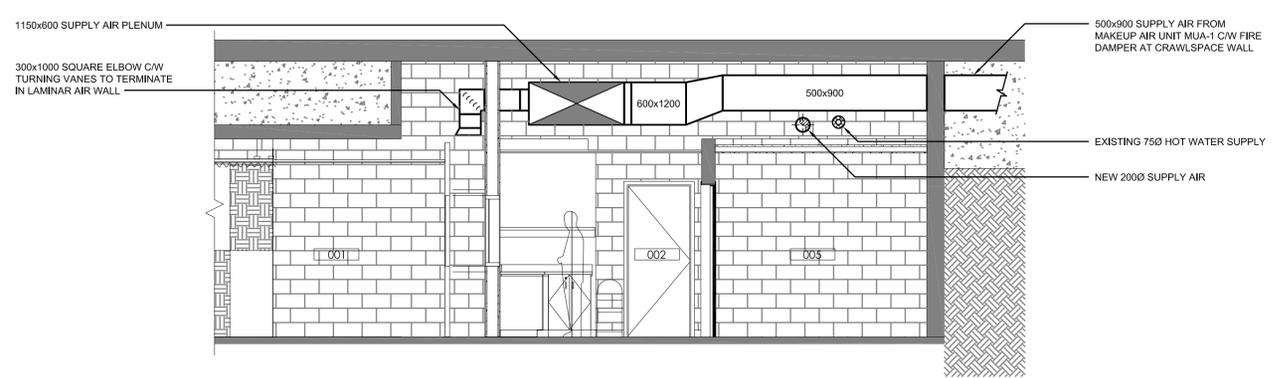
Sheet 5 of 7 **M201**



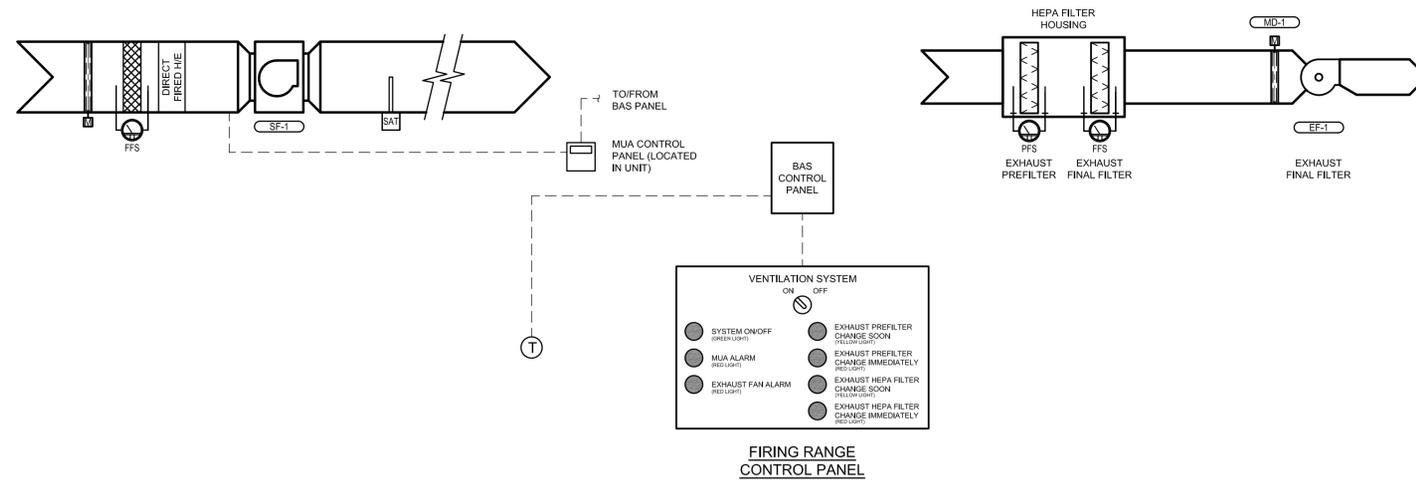
A MECHANICAL SECTION THRU RANGE
M201 N.T.S.



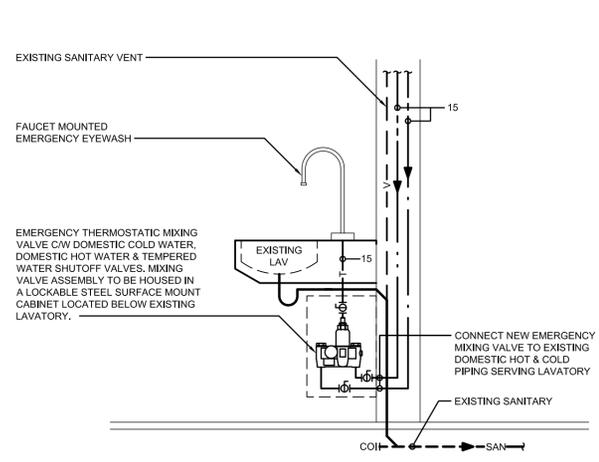
C MECHANICAL SECTION THRU RANGE
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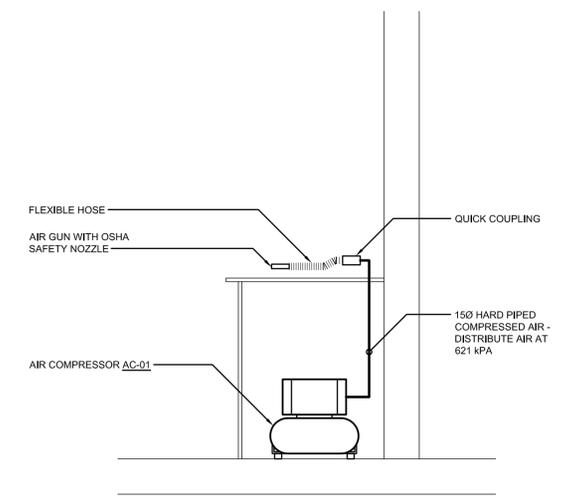
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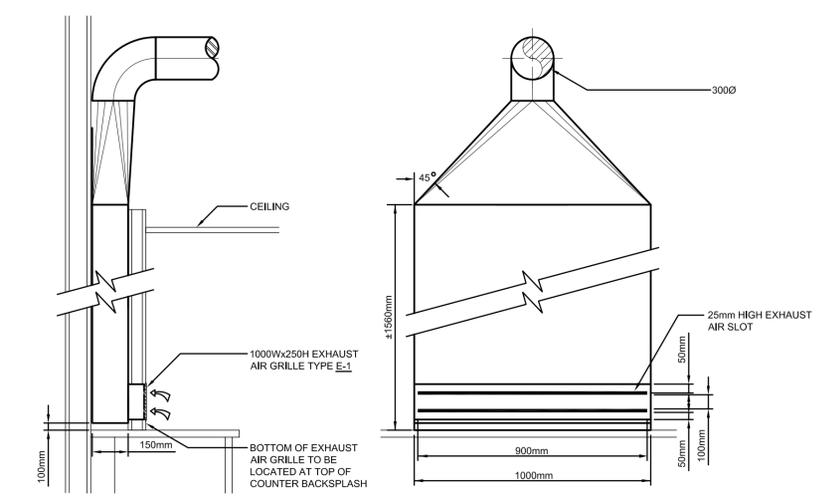
A RANGE VENTILATION CONTROLS SCHEMATIC
M301 N.T.S.



B FAUCET MOUNTED EMERGENCY EYEWASH PIPING DETAIL
M301 N.T.S.



C AIR COMPRESSOR DETAIL
M301 N.T.S.



D MULTI-SLOT EXHAUST HOOD DETAIL
M301 N.T.S.

Revision	By	Appd	YYYY.MM.DD
ISSUED FOR TENDER	JPH	GH	2016.06.08
ISSUED FOR PRE-TENDER CLIENT REVIEW	JPH	GH	2016.04.22
ISSUED FOR 99% REVIEW	JPH	GH	2016.03.02
Issued	By	Appd	YYYY.MM.DD

Permit-Seal

PERMIT TO PRACTICE
STANTEC CONSULTING LTD.
Signature
Date June 8, 2016
PERMIT NUMBER: P 0258
The Association of Professional Engineers,
Geologists and Geophysicists of Alberta

Client/Project
GOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

RED DEER, ALBERTA

Title
MECHANICAL DETAILS

Project No. 144202775.210 Scale N.T.S.

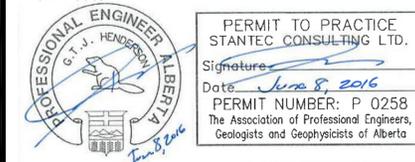
Revision Drawing No.

Sheet 6 of 7

M301

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Revision	By	Appd	YYYY.MM.DD
ISSUED FOR TENDER	JPH	GTH	2016.06.08
ISSUED FOR PRE-TENDER CLIENT REVIEW	JPH	GTH	2016.04.22
ISSUED FOR 99% REVIEW	JPH	GTH	2016.03.02
Issued	By	Appd	YYYY.MM.DD



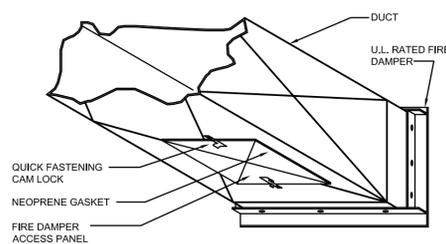
Client/Project
GOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

RED DEER, ALBERTA

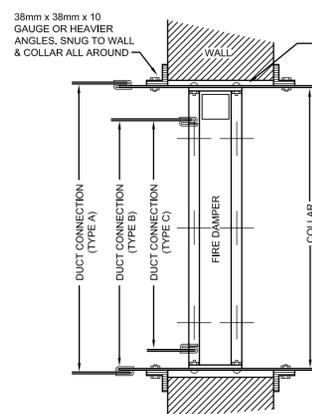
Title
MECHANICAL DETAILS

Project No. 144202775.210 Scale N.T.S.
Revision Drawing No.



ACCESS PANEL SCHEDULE	
DUCT SIZE	ACCESS PANEL SIZE
LESS THAN 200mm WIDE	150x150 - SLEEVE MIN OF 75mm
200mm WIDE	150x150mm
250mm TO 300mm	200x200mm
300mm TO 350mm	250x250mm
OVER 350 WIDE	300x300mm

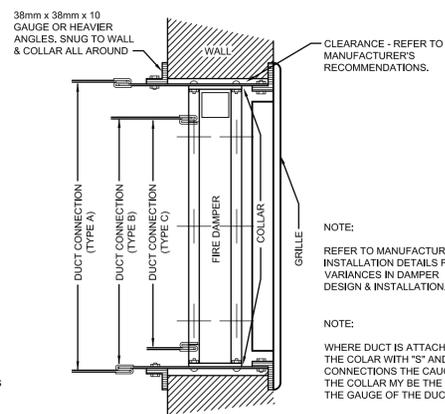
FIRE DAMPER ACCESS DETAIL



NOTE:
PROVIDE CONTINUOUS APPROVED FIRE STOPPING SEALANT BETWEEN ANGLE IRON & WALL OR FLOOR.

NOTE:
WHERE DUCT IS ATTACHED TO THE COLLAR WITH 'S' AND DRIVE CONNECTIONS THE GAUGE OF THE COLLAR MY BE THE SAME AS THE GAUGE OF THE DUCT.

FIRE DAMPER DETAIL

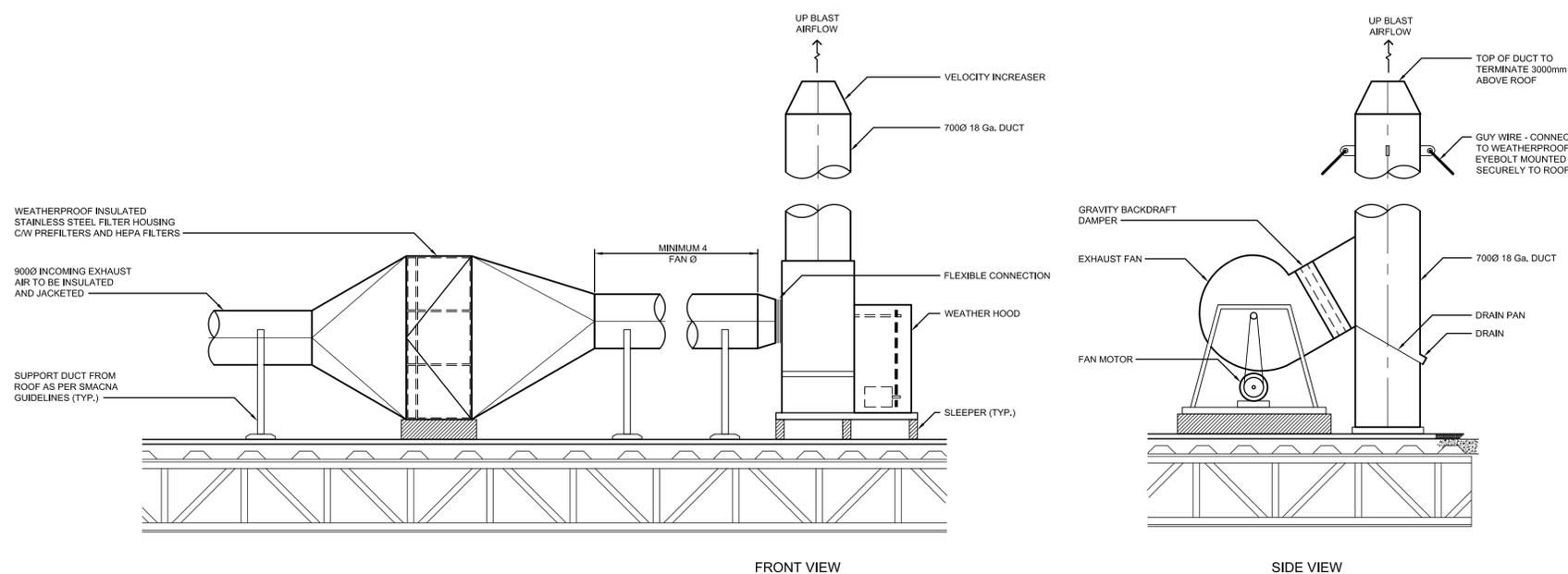


NOTE:
REFER TO MANUFACTURER'S INSTALLATION DETAILS FOR VARIANCES IN DAMPER DESIGN & INSTALLATION.

NOTE:
WHERE DUCT IS ATTACHED TO THE COLLAR WITH 'S' AND DRIVE CONNECTIONS THE GAUGE OF THE COLLAR MY BE THE SAME AS THE GAUGE OF THE DUCT.

GRILLE WITH FIRE DAMPER DETAIL

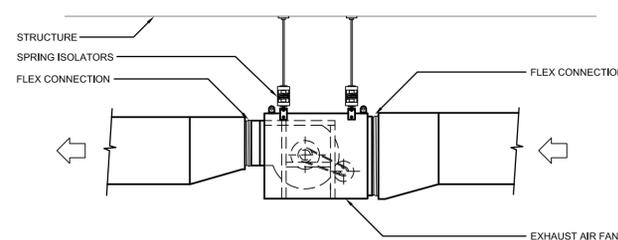
A FIRE DAMPER INSTALLATION DETAIL
M302 N.T.S.



FRONT VIEW

SIDE VIEW

B ROOF MOUNTED EXHAUST FAN & HEPA FILTER DETAIL
M302 N.T.S.



- NOTES:
- EXHAUST FAN TO BE PROPERLY MOUNTED WITH CEILING HANGERS AND SUPPORTS TO PREVENT NOISE VIBRATION.
 - THERMALLY INSULATE DUCT FOR 3m FROM EXTERIOR WALL.

C INLINE EXHAUST FAN DETAIL
M302 N.T.S.

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Legend

Notes

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TENDER _____ DM TJS 2016.06.08
Issued _____ By _____ Appd _____ YYYY.MM.DD

Permit-Seal



PERMIT NUMBER: P 0258
2016-06-08

Client/Project
GOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

RED DEER, ALBERTA

Title
ELECTRICAL SYMBOL LEGEND, NOTES,
SCHEDULE AND DRAWING LIST

Project No. 144202775.210
Revision 00

Scale AS SHOWN
Drawing No.

Sheet
E001
1 of 5

SYMBOL SCHEDULE

LIGHTING PLAN SYMBOLS		POWER PLAN SYMBOLS		GENERAL SYMBOLS		ABBREVIATIONS	
	SURFACE MOUNTED OR SUSPENDED FLUORESCENT LUMINAIRE, 1'x4'		DUPLEX 5-15R RECEPTACLE		NOTE REFERENCE	EX	EXISTING DEVICE TO REMAIN
	SURFACE MOUNTED OR SUSPENDED FLUORESCENT LUMINAIRE, 2'x4'		DUPLEX 5-15R RECEPTACLE C/W INTEGRAL GFCI PROTECTION		EQUIPMENT REFERENCE	RE	REMOVE EXISTING DEVICE
	SURFACE MOUNTED OR SUSPENDED FLUORESCENT LUMINAIRE, 2'x2'		DUPLEX 5-20R RECEPTACLE, T-SLOT		REVISION NUMBER	RP	REPLACE EXISTING DEVICE WITH NEW DEVICE
	RECESSED FLUORESCENT LUMINAIRE, 1'x4'		SPLIT CIRCUIT DUPLEX 5-15R RECEPTACLE		WIRING HOME RUN	RL	RELOCATE EXISTING DEVICE
	RECESSED FLUORESCENT LUMINAIRE, 2'x4'		TWO DUPLEX 5-15R RECEPTACLES		FIRE ALARM SYMBOLS		
	RECESSED FLUORESCENT LUMINAIRE, 2'x2'		SPECIAL RECEPTACLE (TYPE AS INDICATED)		FIRE ALARM MANUAL STATION	ER	EXISTING DEVICE IN RELOCATED POSITION
	RECESSED FLUORESCENT LUMINAIRE, 2'x2'		CEILING MOUNTED DUPLEX 5-15R RECEPTACLE		FIRE ALARM BELL	AFF	ABOVE FINISHED FLOOR
	FLUORESCENT STRIP LUMINAIRE, 4'		TWO CEILING MOUNTED DUPLEX 5-15R RECEPTACLES		FIRE ALARM PIEZO (MINI) SOUNDER	AFG	ABOVE FINISHED GRADE
	FLUORESCENT STRIP LUMINAIRE, 3'		CEILING MOUNTED JUNCTION BOX		FIRE ALARM ELECTRONIC HORN/SOUNDER/CHIME	BMS	BUILDING MANAGEMENT SYSTEM
	FLUORESCENT STRIP LUMINAIRE, 2'		WALL MOUNTED JUNCTION BOX		FIRE ALARM ELECTRONIC HORN/SOUNDER/CHIME c/w STROBE	GF	GROUND FAULT
	WALL MOUNTED LINEAR FLUORESCENT LUMINAIRE, 4'		FLOOR MOUNTED JUNCTION BOX		FIRE ALARM HORN SPEAKER	GFCI	GROUND FAULT CIRCUIT INTERRUPTER
	WALL MOUNTED LINEAR FLUORESCENT LUMINAIRE, 3'		POWER PANELBOARD		FIRE ALARM CONE SPEAKER	HK	HOUSEKEEPING
	RECESSED LUMINAIRE / POT LIGHT, 6" DIAMETER OR LARGER		PANEL (TYPE AS INDICATED - SECURITY, LIGHTING RELAY, ETC.)		FIRE ALARM CONE SPEAKER c/w STROBE	OC	ON CENTER
	RECESSED LUMINAIRE / POT LIGHT, LESS THAN 6" DIAMETER		SURFACE RACEWAY (TYPE AS INDICATED)		FIRE ALARM HORN SPEAKER	JB	JUNCTION BOX
	SURFACE MOUNTED OR SUSPENDED LUMINAIRE		PUSHBUTTON (TYPE AND WIRING AS INDICATED)		FIRE ALARM CONE SPEAKER	MCC	MOTOR CONTROL CENTER
	STEP OR WALL MOUNTED LUMINAIRE		GROUND BUS BAR		FIRE ALARM CONE SPEAKER c/w STROBE	MW	MICROWAVE
	LUMINAIRE ON EMERGENCY CIRCUIT (INDICATED BY HALF SHADING)		ROOM REFERENCE GROUND BUS		FIRE ALARM BELL c/w STROBE	NC	NORMALLY CLOSED
	CEILING MOUNTED EXIT SIGN (TEXT ON SHADED SIDES, ARROWS AS INDICATED)		MOTOR		CEILING MOUNTED REMOTE EVACUATION STROBE	NO	NORMALLY OPEN
	WALL MOUNTED EXIT SIGN (TEXT ON SHADED SIDES, ARROWS AS INDICATED)		MOTOR c/w DISCONNECT SWITCH		WALL MOUNTED REMOTE EVACUATION STROBE	SPD	SURGE PROTECTIVE DEVICE
	TRACK LIGHT (# OF HEADS AS SHOWN, LENGTH AS INDICATED)		COMBINATION DISCONNECT AND MAGNETIC MOTOR STARTER		FIRE ALARM HEAT DETECTOR (RATE OF RISE UNLESS OTHERWISE INDICATED)	TR	TAMPER RESISTANT
	LINE VOLTAGE SWITCH (120V TO 347V)		DISCONNECT SWITCH		FIRE ALARM SMOKE DETECTOR	TV	TELEVISION
	2-GANG LINE VOLTAGE SWITCH		FUSED DISCONNECT SWITCH		FIRE ALARM SMOKE DETECTOR, DUCT MOUNTED	TYP	TYPICAL
	LINE VOLTAGE DIMMER SWITCH		MAGNETIC MOTOR STARTER		SMOKE ALARM	WP	WEATHERPROOF
	LINE VOLTAGE TWO POLE SWITCH		THERMOSTAT		FIRE ALARM ANNUNCIATOR PANEL	#D/#V	NUMBER DATA AND VOICE CABLES
	LINE VOLTAGE THREE WAY SWITCH		MANUAL MOTOR STARTER c/w PILOT LIGHT		FIRE ALARM CONTROL PANEL	*	INDICATES DEVICE MOUNTED ABOVE MILLWORK COUNTERTOP COORDINATE EXACT MOUNTING HEIGHT WITH ARCH. DETAIL
	LOW VOLTAGE SWITCH		CONDUIT STUB		FIRE ALARM CONTROL PANEL	.	INDICATES DEVICE MOUNTED BELOW MILLWORK COUNTERTOP COORDINATE EXACT MOUNTING HEIGHT WITH ARCH. DETAIL
	EMERG. LTG. BATTERY PACK (# OF LAMPS AS SHOWN)		CONDUIT UP		FIRE ALARM RELAY	>	INDICATES DEVICE MOUNTED IN FURNITURE SYSTEM
	CEILING MOUNTED EMERG. LTG. REMOTE HEAD (# OF LAMPS AS SHOWN)		CONDUIT DOWN		FIRE ALARM END OF LINE RESISTOR	>	INDICATES DEVICE MOUNTED ABOVE DATA RACK
	WALL MOUNTED EMERG. LTG. REMOTE HEAD (# OF LAMPS AS SHOWN)		TELECOMMUNICATIONS SYMBOLS				FIRE ALARM FAULT ISOLATION MODULE
	COMBINATION EXIT SIGN/EMERG. LTG. BATTERY PACK			WALL MOUNTED TELECOM OUTLET (# DENOTES NUMBER OF CABLES)		FIRE ALARM FAULT ISOLATION MODULE	
PUBLIC ADDRESS & AUDIO-VISUAL SYMBOLS				FLOOR MOUNTED TELECOM OUTLET (# DENOTES NUMBER OF CABLES)		FIRE ALARM CONTROL MODULE	
	CEILING MOUNTED SPEAKER			CEILING MOUNTED TELECOM OUTLET (# DENOTES NUMBER OF CABLES)		FIRE ALARM MONITOR MODULE	
	WALL MOUNTED SPEAKER			INTERCOM STATION		SECURITY/ACCESS CONTROL SYMBOLS	
				WIRELESS ACCESS POINT			WALL MOUNTED SECURITY CAMERA
				WALL MOUNTED TELEVISION OUTLET			WALL MOUNTED SECURITY CAMERA, FIXED
				CEILING MOUNTED TELEVISION OUTLET			WALL MOUNTED SECURITY CAMERA, PAN/TILT/ZOOM
				FLOOR MOUNTED TELEVISION OUTLET			CEILING MOUNTED SECURITY CAMERA
				FIBRE OPTIC OUTLET			CEILING MOUNTED SECURITY CAMERA, FIXED
				CABLE TRAY, AS INDICATED			CEILING MOUNTED SECURITY CAMERA, PAN/TILT/ZOOM

EXISTING PANEL NUMBER: "BA"

Mounting: Surface VOLTAGE 120/208 V BUS RAT.: 225 A
PHASES 3 MAIN BRKR: A
Panel Loc: WIRE 4 INTERRUPT: A
CIRCUITS 60 CAPACITY: A

Print Date: Apr 21, 2016 02:28 PM

CCT	LOAD	KVA	BRK SIZE	P H	BRK SIZE	KVA	LOAD	CCT
1	REC. Battery Pack	0.20	15	A			Existing	2
3	OTH. Target System	0.50	20	B			Existing	4
5	REC. Trap Vacuum	3.00	30	C	15	1.00	LTG. Rm. 001 Receptacles	6
7	REC. Trap Vacuum	3.00	2P	A	15	1.00	LTG. Rm. 001 Receptacles	8
9	Existing			B	15	0.95	LTG. Rm. 001 & Rm. 002 Lights	10
11	Existing			C	15	0.57	LTG. Rm. 001 Lights	12
13	Existing			A	15	0.75	MTR. Exhaust Fan (EF-2)	14
15	Existing			B	35	1.70	MTR. Air Compressor (AC-1)	16
17	Existing			C			Existing	18
19	Existing			A			Existing	20
21	Existing			B			Existing	22
23	REC. Housekeeping Receptacles	0.40	20	C			Existing	24
25	REC. Receptacle Rm. 002	0.40	15	A			Existing	26
27	Existing			B	15	0.40	REC. Receptacle Rm. 002	28
29	Existing			C			Existing	30
31	Existing			A			Existing	32
33	Existing			B			Existing	34
35	Existing			C			Existing	36
37	Existing			A			Existing	38
39	Existing			B			Existing	40
41	Existing			C			Existing	42
43	Existing			A			Existing	44
45	Existing			B			Existing	46
47	Existing			C			Existing	48
49	Existing			A			Existing	50
51	REC. Receptacle Rm. 002	0.50	15	B			Existing	52
53	REC. Receptacle Rm. 002	0.40	15	C			Existing	54
55	Existing			A			Existing	56
57	Existing			B			Existing	58
59	Existing			C			Existing	60

COMMUNICATIONS NOTES

- ALL CONDUITS TO BE ELECTRICAL METALLIC TUBING (EMT), EMT COUPLING AND CONNECTORS SHALL BE T&B STEEL, SETSCREW TYPE.
- REAM AND REMOVE ANY SHARP PROJECTIONS ON ALL CONDUITS.
- ALL CONDUITS SHALL BE RUN IN THE MOST DIRECT ROUTE POSSIBLE, PARALLEL OR PERPENDICULAR TO BUILDING LINES, WITH PROPER SUPPORT.
- PULLBOXES, FITTINGS OR JUNCTION BOXES SHALL BE PROVIDED IN COMMUNICATIONS CONDUIT RUNS ON THE BASIS OF NOT MORE THAN TWO (2) RIGHT ANGLE BENDS OR THEIR EQUIVALENT. THERE SHALL NOT BE MORE THAN 30m (100ft), IN STRAIGHT RUNS BETWEEN BOXES. PULLBOXES TO BE SIZED TO MEET CODE REQUIREMENTS.
- COMMUNICATIONS CONDUITS WITH AN INTERNAL DIAMETER OF 53mm (2in) OR LESS SHALL HAVE A BEND RADIUS AT LEAST SIX(6) TIMES THE INTERNAL CONDUIT DIAMETER. CONDUITS WITH AN INTERNAL DIAMETER OF GREATER THAN 53mm (2in) SHALL HAVE A BEND RADIUS AT LEAST TEN (10) TIMES THE INTERNAL CONDUIT DIAMETER.

EMERGENCY LIGHTING EQUIPMENT SCHEDULE

- EMERGENCY BATTERY PACK SHALL BE LUMACELL RG24572HP SERIES C/W TWO LIGHT HEADS WITH LD13.
- ALL EMERGENCY LIGHT REMOTE HEADS SHALL BE LUMACELL MQM SERIES C/W LD13.
- ALL WALL/CEILING MOUNTED LED EXIT LIGHT C/W DIRECTIONAL ARROWS AS SHOWN ON THE DRAWINGS. EXIT LIGHT SHALL BE THOMAS AND BETTS RA SERIES SINGLE HEAD CATALOGUE # RA-1-W-U AND DOUBLE HEAD CATALOGUE # RA-2-W-U

NOTES:

- ELECTRICAL CONTRACTOR SHALL SIZE THE BATTERY PACK WITH 25% SPARE CAPACITY BASED ON 60 MINUTE RUN TIME.
- APPROVED EQUIPMENT PRODUCTS SHALL BE "THOMAS AND BETTS" OR APPROVED EQUAL.

LUMINAIRE SCHEDULE

TYPE	VOLTAGE	WATTAGE	LAMPS/HEADS	MOUNTING	REMARKS	MANUFACTURER - CATALOGUE NUMBER
300	120	53	LED	RECESSED	2X4 RECESSED LED LUMINAIRE	JUNO LIGHTING GROUP INDY SERIES SZX4BL-55-50--U-WH-3
301	120	73.2	LED	SURFACE	SURFACE MOUNTED VANDAL RESISTANT LINEAR LED LUMINAIRE	EATON FAIL-SAFE QS-HVSLB-4-LD4-2-STD-50-UNV-O-ED1D
302	120	4.5/FT	LED	SURFACE	SURFACE UNDER COUNTER LED LUMINAIRE	VISUAL LIGHTING TECHNOLOGIES ESSENTIAL ZLS ELL-1S3645-50-AL-SLC--WE1-UL-ELL-AC-2SL-MC
303	120	73.2	LED	SURFACE	SURFACE MOUNTED AND ANGLE DOWN LUMINAIRE	EATON FAIL-SAFE FCC-S-4-LD4
304	120	18	LED	SURFACE	SURFACE MOUNTED LED LUMINAIRE	EATON LUMARK CROSSTOUR LED XTOR2A-XTORFLD-KNC

ELECTRICAL DRAWING LIST

DRAWING NUMBER	TITLE
E001	ELECTRICAL SYMBOL LEGEND, NOTES, SCHEDULE AND DRAWING LIST
E100	BASEMENT DEMOLITION FLOOR PLAN - LIGHTING, POWER AND SYSTEM
E200	BASEMENT FLOOR PLAN - LIGHTING, POWER AND SYSTEM
E300	BASEMENT FLOOR PLAN - COLOR LIGHTING MAP
E400	ELECTRICAL DETAILS AND MECHANICAL EQUIPMENT SCHEDULE

ELECTRICAL GENERAL NOTES

- 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, THE C.E.C. AND STANDATA.
- ALL CONDUIT WORK, WIRING AND JUNCTION BOXES AS MAY BE REQUIRED SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- ELECTRICAL CONTRACTOR TO PROVIDE AS-BUILT DRAWINGS AT PROJECT COMPLETION.
- MAXIMUM VOLTAGE DROP SHALL BE 3%. ELECTRICAL CONTRACTOR SHALL SIZE WIRES TO SUIT.
- ALL EXPOSED CONDUIT SHALL BE RUN PARALLEL TO BUILDING LINES. ALL CONDUIT RUNS ARE TO BE APPROVED PRIOR TO INSTALLATION.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL ELECTRICAL EQUIPMENT PRIOR TO INSTALLATION.
- PROVIDE LAMACOID LABELS FOR ANY SPECIAL PURPOSE SWITCHES OR RECEPTACLES C/W PANEL FEED, VOLTAGE, CIRCUIT NUMBERS.
- PROVIDE LABELS FOR ALL EQUIPMENT, SWITCHES, RECEPTACLES AND FEEDERS C/W PANEL FEED AND CIRCUIT NUMBERS.
- THE ELECTRICAL CONTRACTOR SHALL SEAL ALL PENETRATIONS FOR RACEWAY, CABLES AND ALL OTHER PENETRATIONS MADE BY THE ELECTRICAL CONTRACTOR THROUGH FIRE RATED ASSEMBLIES TO PREVENT THE SPREAD OF SMOKE AND FIRE. A SYSTEM LISTED IN ULC-FS, FIRESTOP SYSTEMS AND COMPONENTS SHALL BE USED TO MAINTAIN THE FIRE RATING OF THE ASSEMBLIES.
- THE ELECTRICAL CONTRACTOR SHALL USE STI EASY PATH FOR PENETRATION MADE FOR DATA CABLING. THE CAPACITY OF EASY PATH TO MATCH WITH CAPACITY OF CABLE TRAY.
- ELECTRICAL CONTRACTOR TO ARRANGE FOR FIRE ALARM MANUFACTURER OR LOCAL TECHNICIAN TO ATTEND PRE-TENDER WALKTHROUGH TO DETERMINE COST OF INSTALLING NEW DEVICES INTO THE EXISTING FIRE ALARM PANEL. SUBMIT PRICE FOR INCORPORATING NEW FIRE ALARM DEVICES IN TO EXISTING SYSTEM AS SEPARATE LINE ITEM IN BID.

