

TENDER 2016.06.08

EXISTING BUILDING RENOVATION

EDSON, ALBERTA

Stantec Project #: 144202775.205

ARCHITECT:

STANTEC ARCHITECTURE LTD

325 - 25 ST SE
CALGARY, AB
T2A 7H8

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STRUCTURAL ENGINEER:

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MECHANICAL ENGINEER:

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ELECTRICAL ENGINEER:

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Seal Block

GENERAL NOTES:

1. ALL WORK TO CONFORM TO THE NATIONAL BUILDING CODE 2010 AND ALBERTA BUILDING CODE 2014, WHICH EVER IS MORE RESTRICTIVE.
2. ARCHITECTURAL DRAWINGS TO BE READ IN CONJUNCTION WITH STRUCTURAL, MECHANICAL, ELECTRICAL, CIVIL AND LANDSCAPE DRAWINGS.
3. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH GOOD BUILDING PRACTICES. CONTRACTOR TO CAREFULLY INSPECT THE SITE OF WORK AND BE FULLY INFORMED OF CONDITIONS AND LIMITATIONS.
4. CONTRACTOR TO CONFIRM ALL DIMENSIONS ON SITE AND IMMEDIATELY REPORT ANY DISCREPANCIES TO THE DESIGN TEAM PRIOR TO PROCEEDING.
5. CONTRACTOR ASSUMES COMPLETE RESPONSIBILITY TO ENSURE ALL FIXTURES & EQUIPMENT SUPPLIED UNDER THIS CONTRACT ARE CANADIAN STANDARDS ASSOCIATION (CSA) APPROVED.
6. CONTRACTOR IS RESPONSIBLE TO CONFIRM AND PROVIDE STORM, SANITARY, WATER, ELECTRICITY, AND GAS REQUIREMENTS AND INSTALLATION TO THE APPROVAL OF ALL APPLICABLE CODES AND LOCAL INSPECTORS.
7. CONTRACTOR TO SUBMIT SAMPLES AND / OR ILLUSTRATIONS OF FITTINGS, FIXTURES AND FINISHES TO THE CONSULTANT FOR OWNER'S APPROVAL PRIOR TO ORDER AND INSTALLATION. REFER TO SPECIFICATIONS.
8. DOOR AND WINDOW SIZES ARE NOMINAL. CONTRACTOR TO CONSULT SUPPLIER FOR EXACT SIZES AND ROUGH OPENINGS.
9. PROVIDE ALL FRAMING / BLOCKING AS REQUIRED TO ENSURE PROPER SECUREMENT OF ALL MATERIALS, EQUIPMENT, ACCESSORIES, ETC.
10. ALL MATERIALS ARE TO BE PRIMED AND PAINTED UNLESS NOTED OTHERWISE PROVIDE COLOR COORDINATED SEALANT BETWEEN DISSIMILAR MATERIALS.
11. INSTALL ALL DOORS AND FRAMES WITH A CLEAR DIMENSION OF 100mm BETWEEN THE FRAME AND THE NEAREST ADJACENT WALL IN GYPSUM BOARD AND METAL STUD PARTITIONS AND 150mm IN CONC / CONCRETE MASONRY UNIT WALLS UNLESS NOTED OTHERWISE.
12. FURR IN ALL EXPOSED MECHANICAL AND ELECTRICAL DUCTS AND PIPING.
13. MAINTAIN SAFE ACCESS TO ALL REQUIRED EXITS AT ALL TIMES.
14. ALL ELEVATIONS TO BE VERIFIED. CONTRACTOR TO COORDINATE LOCATIONS OF ALL MECHANICAL & ELECTRICAL EQUIPMENT PRIOR TO ROUGH-IN AND INSTALLATION.
15. ALL DIMENSIONS, DETAILS & CONDITIONS INDICATED AND SHALL BE CONFIRMED ON THE JOB SITE. MODIFICATIONS AND/OR ADJUSTMENTS SHALL BE MADE ACCORDINGLY AS REQUIRED UPON INSTRUCTIONS FROM THE DESIGN TEAM.
16. PROVIDE ALL GIRDERS, HANGERS, SUPPORTS, HARDWARE, BRACING, ETC. AS REQUIRED.
17. PROVIDE CONTINUOUS ROD & SEALANT JOINT AT ALL JUNCTIONS OF DISSIMILAR MATERIALS, CONTROL JOINTS & OTHER LOCATIONS INDICATED.
18. MAINTAIN INTEGRITY OF THE AIR / VAPOUR BARRIER MEMBRANE IN THE EXTERIOR WALLS & ROOF STRUCTURE. ALL MEMBRANES ARE TO BE CONTINUOUS & HAVE A MINIMUM OVERLAP OF 200mm AT ALL PARAPETS, FLASHINGS, JOINTS, CHANGES IN DIRECTION, WINDOWS, DOORS, ETC.
19. WHERE MECHANICAL DUCTS AND ELECTRICAL CONDUIT PENETRATE FIRE SEPARATIONS OR WALLS WHICH ARE CONSTRUCTED TO U/S OF STRUCTURE, PROVIDE FIRE AND SMOKE SEALS AT PENETRATED FIRE SEPARATIONS AND SOUND SEALS AT ALL OTHER WALLS.
20. WHEN INSTALLING PLUMBING, INSTALL GASKETS AT ALL SUPPORT CONNECTIONS. PIPES MUST NOT COME INTO DIRECT CONTACT WITH METAL STUDS, METAL SUSPENSION SYSTEMS, OR CONCRETE FLOORS.
21. INTERIOR DIMENSIONS TO BE TAKEN FROM CENTER OF PARTITION TO CENTER OF PARTITION FOR TYP. STUD CONSTRUCTION. INTERIOR DIMENSIONS TO BE TAKEN FROM FACE OF EXISTING WALLS.
22. WHERE MECHANICAL DUCTS ARE DEMOLISHED AND LEAVE OPENINGS IN WALLS INFILL ALL EXISTING OPENINGS W/ CONCRETE MASONRY UNITS OR 16mm GYPSUM BOARD (ON BOTH SIDES OF OPENING) AND STEEL STUDS TO MATCH ADJACENT WALL CONSTRUCTION AND MAKE FLUSH SO AS NO PROTRUSION IS VISIBLE. PAINT INFILL ON BOTH SIDES TO BLEND IN WITH SURROUNDING SO TO APPEAR AS CONTINUOUS.
23. WHERE NEW OPENINGS IN EXISTING FOUNDATION WALLS ARE REQUIRED, COMPLETELY SEAL OPENINGS AROUND THE DUCTS WITH THERMAL BATT INSULATION C/W OVERLAYS FROM BAKER RODS AND CONTINUOUS EPOXY SEALANT TO FORM A WEATHER TIGHT SEAL ON BOTH SIDES. ON THE EXTERIOR PROVIDE MINIMUM 300mm OF SELF ADHERED AIR/VAPOUR RATED FOR BELOW GRADE USE AND LAP AROUND OPENINGS. IF DAMPROOFING AND DRAINAGE BOARDS ARE AFFECTED PROVIDE NEW MATERIALS TO MATCH EXISTING AND THE INTO EXISTING MATERIALS TO BE A CONTINUOUS SYSTEM.

DOOR SCHEDULE

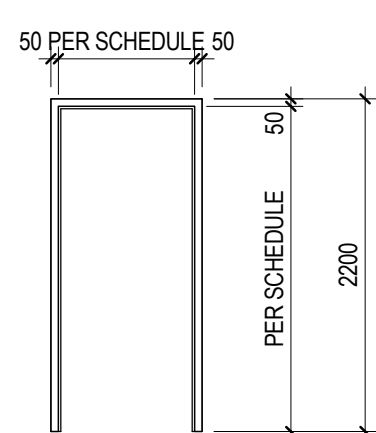
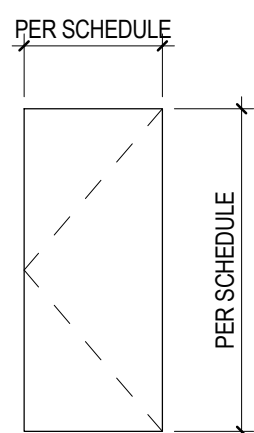
No.	CLEAR DIM.		NO. OF PANELS	DOOR				FRAME				OPENING			LOCK FCTN	HWDW SET	COMMENTS	
	W	H		PANEL WIDTHS		THCK	TYPE	MAT'L	FINISH	TYPE	MAT'L	FINISH	FIRE LABEL	GLAZ				STC RATING
BASEMENT																		
006.1	900	2150	1	900	0	45	F	HM		PI-2	1	PSF	PI-2	N/A	N/A	55	F15	001
006.2	900	2150	1	900	0	45	F	HM		PI-2/PI-3	1	PSF	PI-2/PI-3	N/A	N/A	55	F01	002
																		PI-2 IN 006 & PI-3 IN 003

FINISH SCHEDULE

LEGEND	DESCRIPTION	MANUFACTURER	STYLE	COLOUR	COMMENTS
ACT-1	ACOUSTIC CEILING TILE - 610x 1220mm, 15/16" SQUARE LAY-IN MEDIUM TEXTURE TILE C/W SUSPENSION SYSTEM	ARMSTRONG OR EQUIVALENT	CORTEGA	WHITE	
AP-1	ACOUSTIC / SOUND DEADENING MATERIAL	BY RANGE EQUIPMENT MANUFACTURER	TBC	TBC	STYLE & COLOUR TO BE SELECTED FROM MANUFACTURER STANDARD COLOUR PALETTE
HD-1	3 3/4" PULL BARS	LIBERTY HARDWARE	P01012-SS-C	STAINLESS STEEL	CABINET HARDWARE
M-1	MELAMINE	N/A	N/A	WHITE	CABINET INTERIORS
PL-1	PLAM VERTICAL	ARBORITE	N/A	W-431 CASHEW TEKKA	
PT-1	PAINT (FIELD) - WALL	SCUFFMASTER	SCRUBTOUGH (EGGSHELL)	TO MATCH SW 7043 WORDLY GRAY	
PT-2	PAINT DOORS/FRAMES	SHERWIN WILLIAMS	SEMI-GLOSS	SW 7042 SHOJI WHITE	
PT-3	PAINT WALLS/CEILING/EQUIPMENT	GENERAL PAINT	SEMI-GLOSS	PORTAGE BLACK CLV 1184N	
RCB-1	RUBBER COVE BASE, 4"h	ROPPE OR EQUIVALENT	PINNACLE - TYPE TS 1/8"	114 LUNAR DUST	
RES-1	RESILIENT FLOORING	FORBO OR EQUIVALENT	MARMOLEUM. REAL	2629 EIGER	
SFC-1	SPECIALTY FLOOR COATING, INCLUDES 6" COVE UP WALL	STONHARD OR EQUIVALENT	STONKOTE GS4	SILVER GRAY	C/W BROADCAST AGGREGATE
STS-1	STAINLESS STEEL - 16 GAUGE, TYPE 304	ASM INDUSTRIES OR EQUIVALENT	N/A	STAINLESS STEEL	

ROOM FINISH SCHEDULE

No.	CEILING	FLOOR	BASE	WALL				COMMENTS
				NORTH	EAST	SOUTH	WEST	
BASEMENT								
002	ACT-1	RES-1	RCB-1	PT-1	PT-1	PT-1	PT-1	
003	ACT-3/BAFFLES	SFC-1	SFC-1	PT-3 / AP-1	PT-3	PT-3 / AP-1	PT-3	
006	ACT-1	RES-1	RCB-1	PT-1	PT-1	PT-1	PT-1	



ABBREVIATION LEGEND

ABBREVIATION	DESCRIPTION
AFF	ABOVE FINISH FLOOR
ACT	ACOUSTIC CEILING TILE
ALUM	ALUMINUM
ANOD	ANODIZED
APPROX	APPROXIMATE
BLDG	BUILDING
CL	CENTER LINE
CW	COMPLETE WITH
CONT	CONTINUOUS
D	DEEP
DEG (°)	DEGREE
DIA	DIAGONAL
DIA (ø)	DIAMETER
DIM	DIMENSION
DWG(S)	DRAWINGS
EA	EACH
ELEC	ELECTRICAL
ELEV (EL)	ELEVATION
EQ	EQUAL
EXIST (EX)	EXISTING
EXT	EXTERIOR
FL (FR)	FLOOR
FD	FLOOR DRAIN
GA	GAUGE
GLAZ	GLAZING
H	HIGH
HM	HOLLOW METAL
INSUL	INSULATION
LG (L)	LONG
MUA	MAKE UP AIR HANDLING UNIT
MAX	MAXIMUM
MECH	MECHANICAL
MDF	MEDIUM DENSITY FIBERBOARD
m	METER
m²	METER SQUARE
mm	MILLIMETERS
MIN	MINIMUM
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO (#)	NUMBER
OC	ON CENTER
PT	PAINT
PSF	PRESSED STEEL FRAME
RAD (R)	RADIUS
REQ'D	REQUIRED
R	RISER
SIM	SIMILAR
SCW	SOLID CORE WOOD
STC	SOUND TRANSMISSION CLASS
SPEC	SPECIFICATION
SQ	SQUARE
SS (S/S)	STAINLESS STEEL
STRUCT	STRUCTURAL
TBC	TO BE CONFIRMED
TBD	TO BE DETERMINED
TO or T/O	TOP OF
TYP	TYPICAL
US or U/S	UNDERSIDE
UNO	UNLESS NOTED OTHERWISE
WWM	WELDED WIRE MESH
W	WIDE
W/	WITH

LEAD ABATEMENT SCHEDULE

ROOM NUMBER	ARCHITECTURAL							MECHANICAL		ELECTRICAL		CLEAN ALL REMAINING SURFACES	COMMENTS
	WALL CONSTRUCTION MATERIALS	CEILINGS	DOORS AND FRAMES	WINDOW	MILLOWORK	CEILING/WALL BAFFLES	FURNITURE AND EQUIPMENT	DUCTWORK	PLUMBING FIXTURES AND LINES	LIGHT FIXTURES	POWER AND CONTROLS		
001	No	No	No	No	No	No	No	No	No	No	No	Yes	INCLUDING FLOORS AND WALLS ON MAIN FLOOR
002	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	ALSO APPLIES TO CRAWLSPACE ABOVE ROOM
003	Yes	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
107	No	No	No	No	No	No	No	No	No	No	No	Yes	LOCATED ON MAIN FLOOR ADJACENT MECHANICAL ROOM

NOTE:

1. THIS SCHEDULE IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND THE INITIAL LEAD SURFACE DUST CONTAMINATION ASSESSMENT PROVIDED IN THE SPECIFICATIONS.

2. THIS SCHEDULE IS TO BE READ IN CONJUNCTION WITH THE MATERIALS IDENTIFIED TO BE DEMOLISHED IN THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.

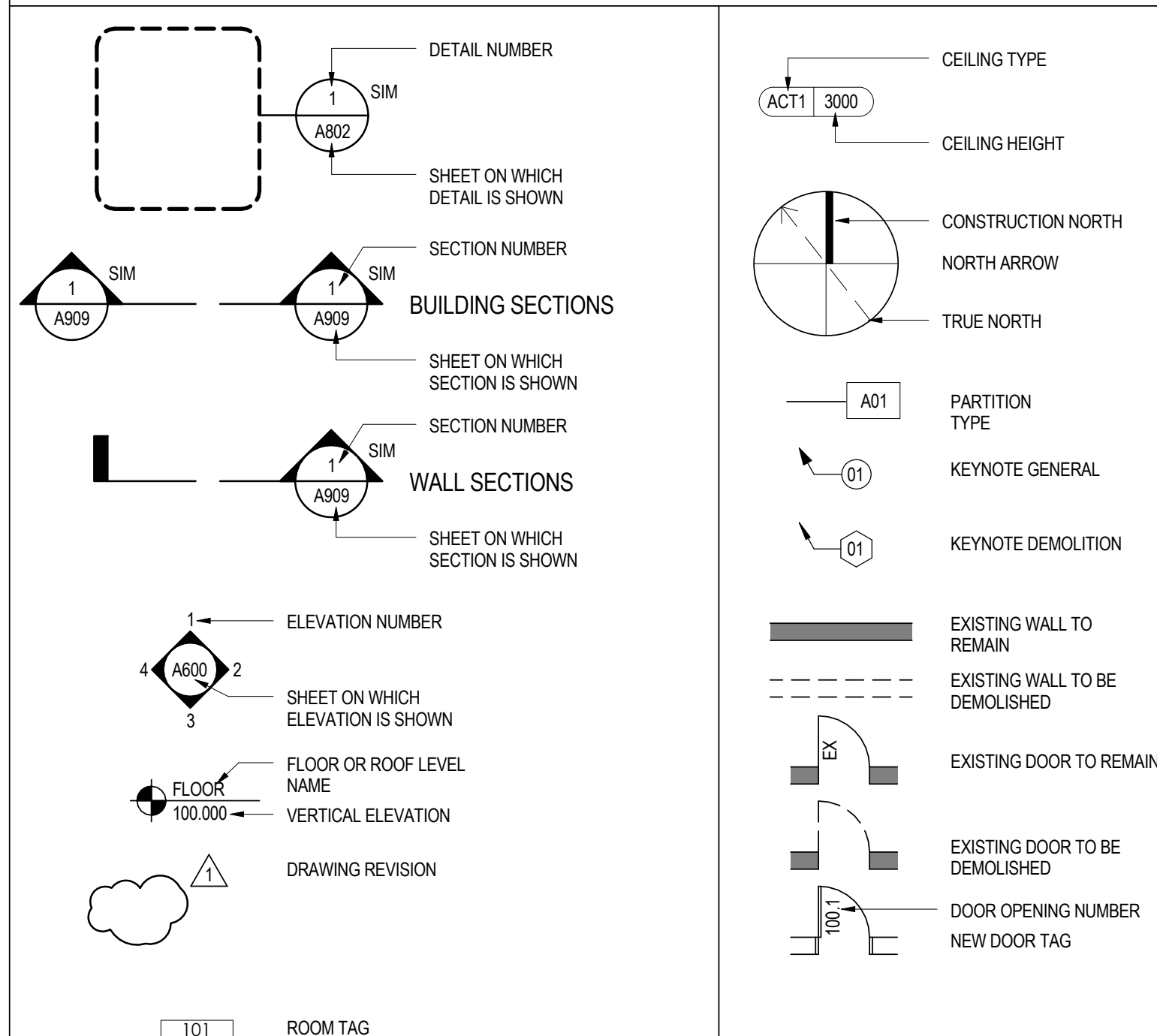
3. ALL MATERIALS WERE TAKEN FROM THE ROOMS IDENTIFIED ABOVE AND ABATEMENT IS REQUIRED THROUGHOUT THOSE ROOMS.

4. THIS SCHEDULE IS IDENTIFIES LEAD-CONTAMINATED MATERIALS THAT WILL REQUIRE TO BE REMOVED FROM THE SITE, AND CONFIRMS THAT LEAD ABATEMENT (REMOVAL OF LEAD DUST CONTAMINATION) IS REQUIRED FOR ANY SURFACES THAT WILL REMAIN THOSE ROOMS.

BUILDING CODE SUMMARY

ITEM	REMARKS	ARTICLE / REFERENCE
BASIS OF SUMMARY	-ALL NEW WORK TO BE DONE TO ALBERTA BUILDING CODE 2014 / NATIONAL BUILDING CODE 2010 WHICH EVER IS MORE RESTRICTIVE EXTENT OF WORK WILL BE INTERIOR RENOVATION OF THE GUN RANGE LOCATED WITHIN THE BASEMENT AND UPGRADES TO ELECTRICAL AND MECHANICAL SYSTEMS.	
BUILDING HEIGHT	-2 STOREY	NBC/ABC 1.4.1.2.
BUILDING AREA	<p>EXISTING BUILDING AREAS</p> <p>BASEMENT = 220 sq m</p> <p>MAIN FLOOR = 1060 sq m</p> <p>>MECHANICAL "F3" = 77 sq m</p> <p>>CELL BLOCK "B1" = 300 sq m</p> <p>>OFFICE "D" = 683 sq m</p> <p>SECOND FLOOR = 780 sq m</p> <p>TOTAL = 2060 sq m</p> <p>RENOVATION AREA</p> <p>BASEMENT = 174 sq m</p>	NBC/ABC 1.4.1.2.
BUILDING CLASSIFICATION	<p>BUILDING WAS CONSTRUCTED TO THE 1985 ALBERTA BUILDING CODE 3.2.2.22</p> <p>2.THE BUILDING SHALL BE OF NON-COMBUSTIBLE CONSTRUCTION AND</p> <p>a) FLOOR ASSEMBLIES SHALL BE 2 HOUR FIRE SEPARATIONS</p> <p>b) MEZZANINES SHALL HAVE A 1 HOUR FIRE-RESISTANCE RATING</p> <p>c) ROOF ASSEMBLIES SHALL HAVE A 1 HOUR FIRE-RESISTANCE RATING</p> <p>d) ALL LOADBEARING WALLS, COLUMNS AND ARCHES SHALL HAVE A FIRE-RESISTANCE RATING AT LEAST EQUIVALENT TO THE THAT REQUIRED BY THE SUPPORTED ASSEMBLY</p> <p>BUILDING CLASSIFICATION UNDER 2010 NATIONAL BUILDING CODE & 2014 ALBERTA BUILDING CODE WOULD BE GROUP B DIVISION 1 UP TO 3 STOREYS 3.2.2.37.</p> <p>-NOT MORE THAN 3 STOREYS IN HEIGHT <2 STOREYS PROVIDED></p> <p>-SPRINKLERED THROUGHOUT -BUILDING WILL NOT BE UPGRADED WITH AN AUTOMATIC SPRINKLER SYSTEM></p> <p>-HAS A BUILDING AREA NOT MORE THAN 12,000 sq m IF 2 STOREYS IN BUILDING HEIGHT <1060 sq m PROVIDED></p> <p>-SHALL BE OF COMBUSTIBLE OR NON-COMBUSTIBLE CONSTRUCTION <PROVIDED></p> <p>-FLOOR ASSEMBLIES SHALL BE FIRE SEPARATIONS AND IF OF NON-COMBUSTIBLE CONSTRUCTION HAVE A FIRE-RESISTANCE RATING NOT LESS THAN 1 HOUR <2 HOURS PROVIDED></p> <p>-MEZZANINES IF OF NON-COMBUSTIBLE CONSTRUCTION SHALL HAVE A FIRE RESISTANCE RATING NOT LESS THAN 1 HOUR</p> <p>-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</p>	NBC/ABC 3.2.2.37.
FLAME-SPREAD RATING	<p>-INTERIOR WALLS AND CEILINGS 10 MAX</p> <p>-EXITS 25 MAX</p> <p>-VERTICAL SERVICE SHAFT 25 MAX</p>	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 3.2.5.15.
VISUAL SIGNALS	VISUAL SIGNAL DEVICES SHALL BE INSTALLED IN ADDITION TO AUDIBLE SIGNAL DEVICES IN THE PISTOL RANGE	NBC/ABC 3.2.4.20. 1)a)c)
CORRIDORS	-MINIMUM WIDTH OF PUBLIC CORRIDOR TO BE NOT LESS THAN 1100mm	NBC/ABC 3.3.1.9.
NUMBER AND LOCATION OF EXITS FROM FLOOR AREAS 1985 ALBERTA BUILDING CODE	<p>-ONE EXIT IS PERMITTED FROM A FLOOR AREA PROVIDED THE FOLLOWING REQUIREMENTS ARE MET:</p> <p>-FLOOR AREA IN A BUILDING NOT MORE THAN 2 STOREYS IS PERMITTED TO BE SERVED BY ONE EXIT PROVIDED</p> <p>-THE TOTAL OCCUPANT LOAD IS NOT MORE THAN 60</p> <p>-HAS A MAXIMUM FLOOR AREA OF 75sq m <55 sq m PROVIDED></p> <p>-AND A MAXIMUM TRAVEL DISTANCE NOT MORE THAN 10m. <11m PROVIDED FROM FIRING LINE VARIANCE REQUESTED></p>	NBC/ABC 3.4.2.1.(A)
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	<p>-EXIT CORRIDORS AND PASSAGEWAYS =1100mm MINIMUM</p> <p>-RAMPS =1100mm MINIMUM</p> <p>-STAIRS =900mm MINIMUM</p> <p>-DOORWAYS =800mm MINIMUM</p>	NBC/ABC TABLE 3.4.3.2.A.
WATER CLOSET	NO CHANGE TO OCCUPANCY FIXTURES WILL BE UPGRADED IN WASHROOM ADJACENT PISTOL RANGE ONLY	

DRAWING SYMBOLS LEGEND



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Legend

Notes

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Client/Project
GOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

EDSON, ALBERTA

Title
GENERAL NOTES, LEGENDS, CODE MATRIX
SCHEDULES AND ABBREVIATIONS

Project No. 144202775.205	Scale As indicated
Revision	Drawing No.

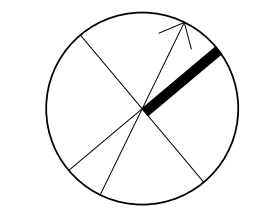
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A001

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Revision

Revision	By	Appd	YYYY.MM.DD
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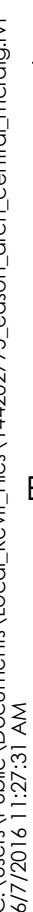
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Permit-Seal

EDSON, ALBERTA

144202775.205 1 : 250

A105



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KEYNOTES GENERAL - A111	
KEYNOTE	DESCRIPTION
01	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
02	GRANULATED BULLET TRAP

Revision	By	Appd	YYYY.MM.DD
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Issued	By	Appd	YYYY.MM.DD

A111


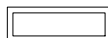










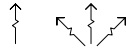
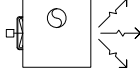

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A111 1 : 100



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Notes

CEILING LEGEND

	ACOUSTIC TILE
	SURFACE MOUNTED OR SUSPENDED FLUORESCENT LUMINAIRE
	RECESSED FLUORESCENT LUMINAIRE
	FLUORESCENT STRIP LUMINAIRE
	WALL MOUNTED LINEAR FLUORESCENT LUMINAIRE
	RECESSED LUMINAIRE / POT LIGHT
	SURFACE MOUNTED OR SUSPENDED LUMINAIRE
	STEP OR WALL MOUNTED LUMINAIRE
	LUMINAIRE ON EMERGENCY CIRCUIT (INDICATED BY HALF SHADING)
	WALL MOUNTED GRILL/REGISTER
	LINEAR DIFFUSER
	CEILING SUPPLY DIFFUSER
	AIR FLOW ARROWS
	GAS FIRED UNIT HEATER
	CEILING EXHAUST GRILLE

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Permit-Seal

Client/Project

GOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

EDSON, ALBERTA

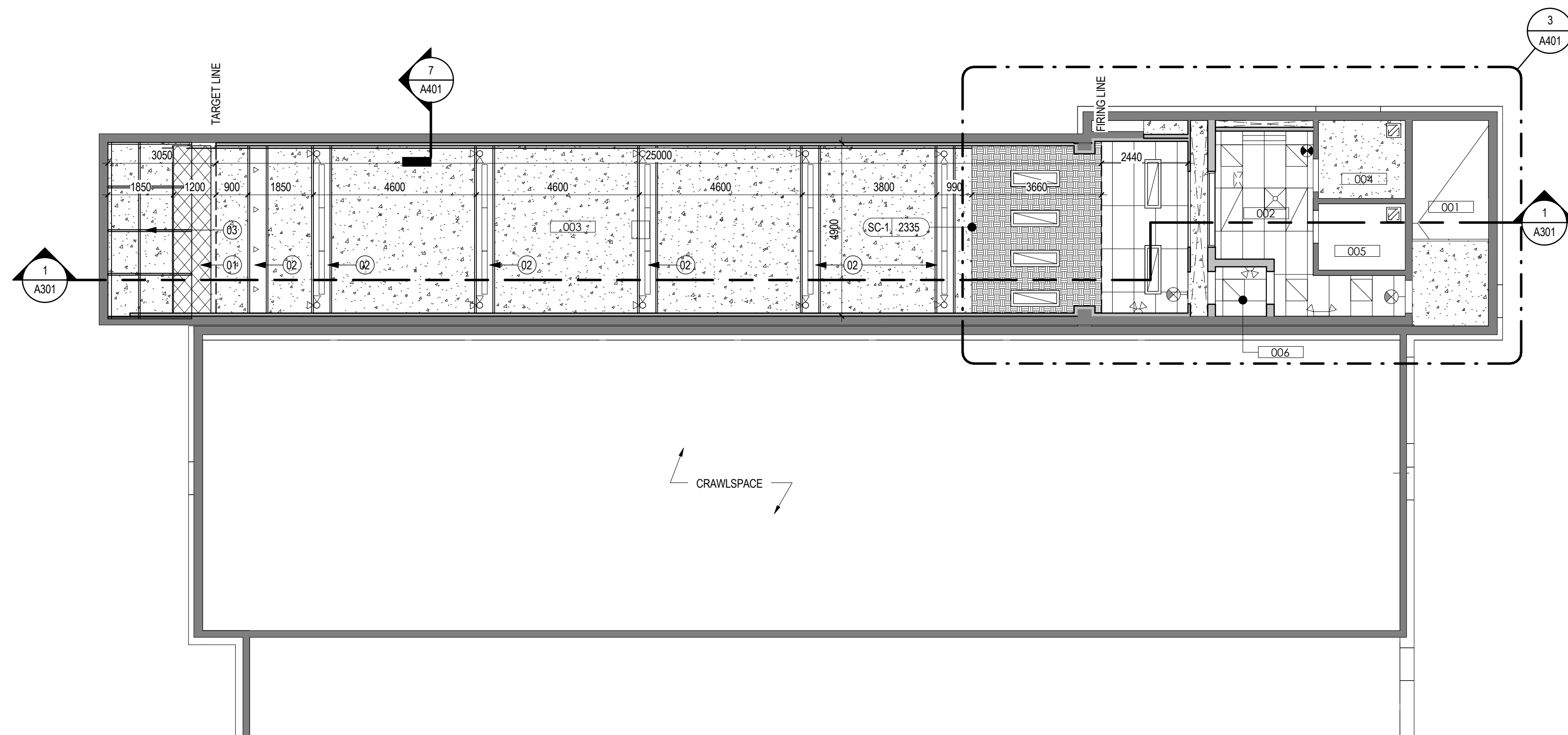
Title
BASEMENT DEMOLITION & CONSTRUCTION
REFLECTED CEILING PLANS

Project No.	Scale
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A151

100



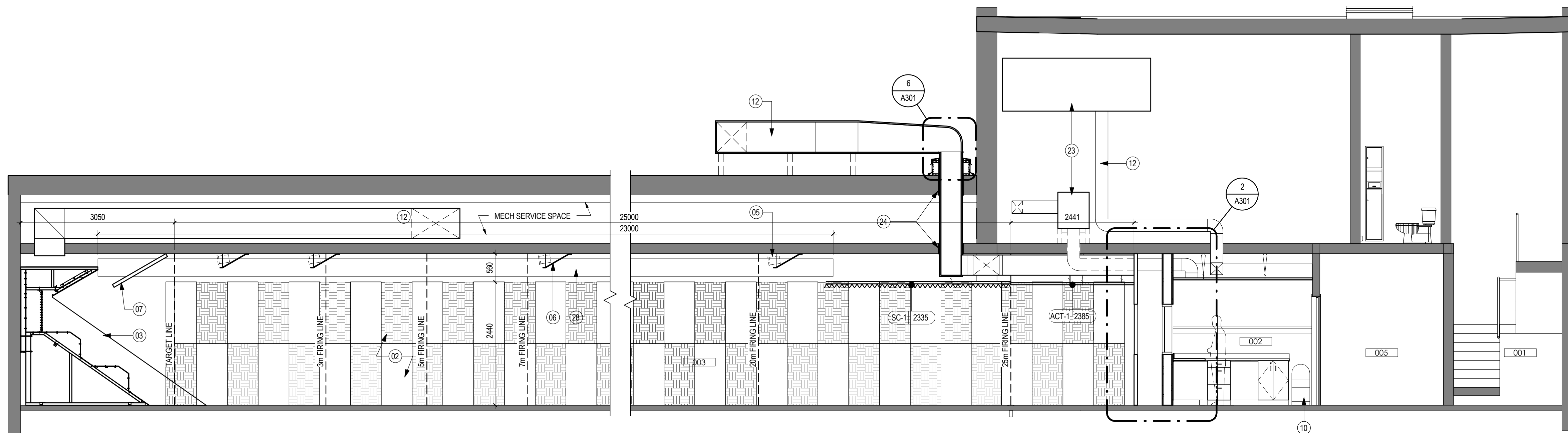
100

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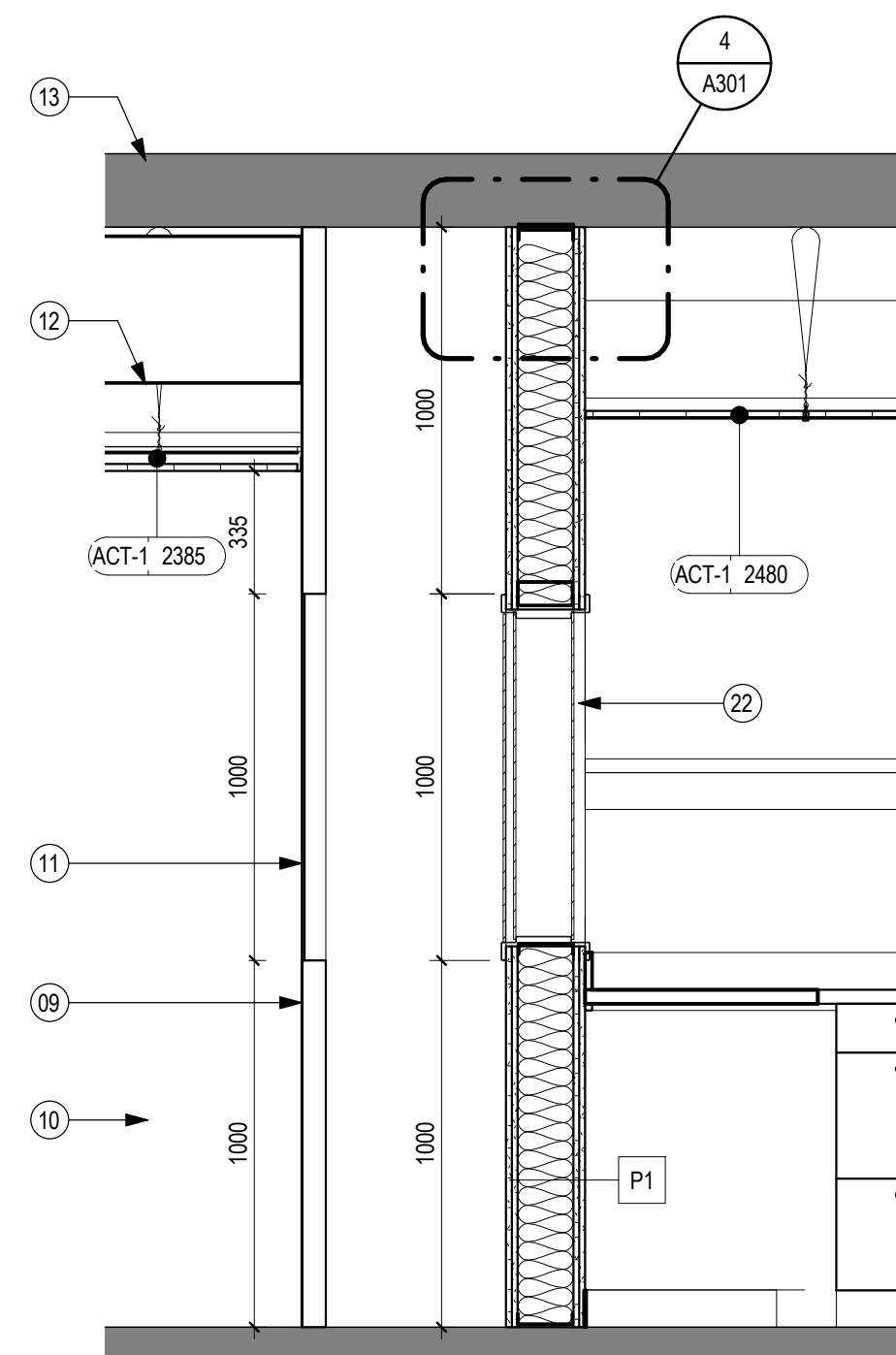
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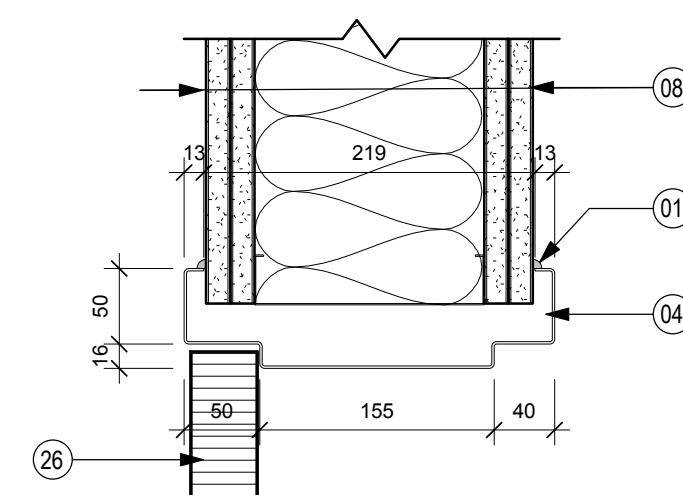
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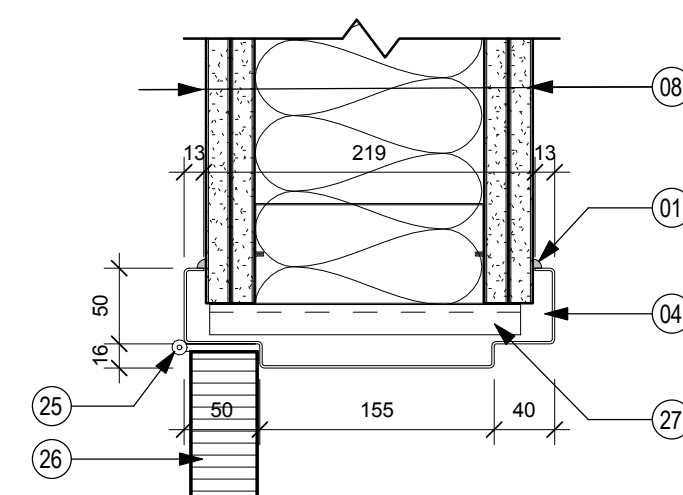
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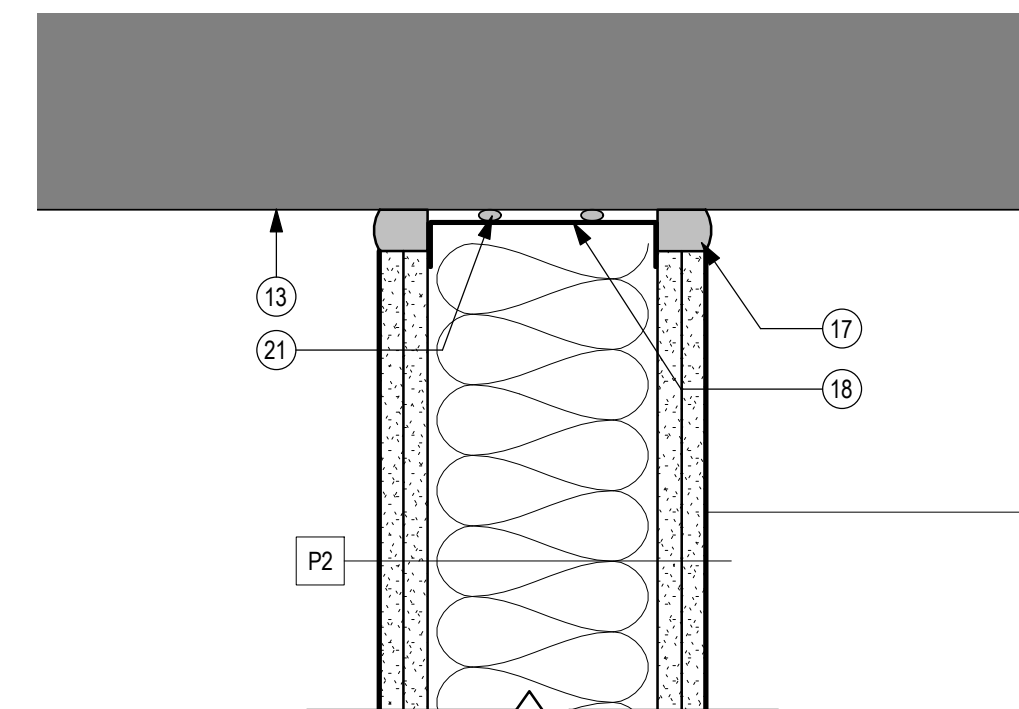
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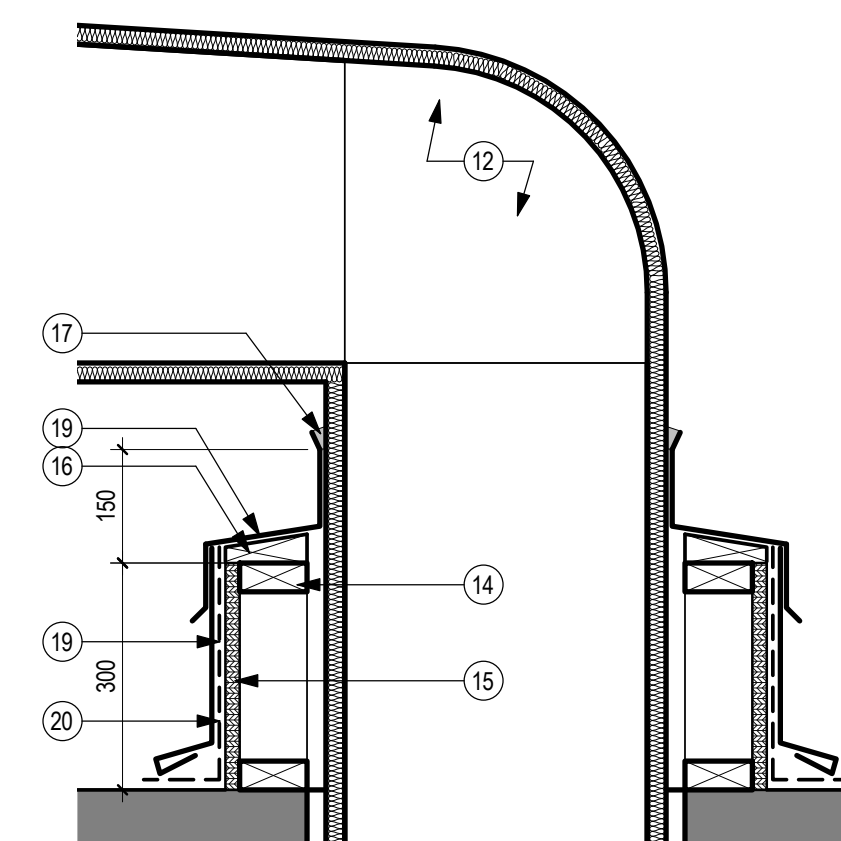
A301 1:5



A301 1:5



A301 1:5



A301 1:10

KEYNOTES GENERAL - A301	
KEYNOTE	DESCRIPTION
01	CONTINUOUS SEALANT (BOTH SIDES)
02	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
03	GRANULATED BULLET TRAP SYSTEM
04	PRESSED STEEL FRAME
05	RANGE LIGHTING
06	LIGHT ALCOVE DEFLECTOR
07	1220mm REDIRECTIVE GUARD C/W 30 DEGREE SLOPE
08	PARTITION AS NOTED ON DRAWING
09	PERFORATED METAL LAMINAR AIR WALL
10	GUN CLEARING TRAP
11	PERFORATED POLYCARBONATE AIR WALL
12	MECHANICAL DUCT
13	EXISTING FLOOR TO REMAIN
14	38x89mm PRESSURE TREATED WOOD STUDS @ 400mm OC
15	13mm PRESSURE TREATED PLYWOOD SHEATHING
16	SLOPE BLOCK MIN 1 IN 6 SLOPE TOWARD ROOF
17	CONTINUOUS ACOUSTIC SEALANT
18	SLOTTED DEFLECTION TRACK
19	REFINISHED METAL FLASHING - CHARCOAL
20	WATERPROOFING MEMBRANE
21	2x CONTINUOUS BEADS OF ACOUSTICAL SEALANT TOP AND BOTTOM OF WALL
22	STC 55 SOUND CONTROL WINDOW
23	NEW MECHANICAL EQUIPMENT
24	PROVIDE OPENING IN EXISTING STRUCTURE FOR INSTALLATION OF NEW MECHANICAL DUCTS
25	TYPICAL HINGE
26	TYPICAL ACOUSTIC DOOR
27	TYPICAL STEEL STUD ANCHOR
28	RADIANT FIBRE ARMOUR PLATE PROTECTION

Revision	By	Appd	YYYY.MM.DD
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TENDER	HM	EV	2016.06.08
Issued	By	Appd	YYYY.MM.DD

Permit-Seal

Client/Project
GOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

EDSON, ALBERTA

Title

Project No.	Scale
144202775.205	As indicated

Revision	Drawing No.
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Sheet
5 of 7

A301

1 **ENLARGED FLOOR PLAN**
A401 1:50

3 ENLARGE REFLECTED CEILING PLAN

5 ROOM 002 - WEST ELEVATION

2 ROOM 003 - EAST ELEVATION

ROOM 002 - NORTH ELEVATION

ROOM 002 - SOUTH ELEVATION
1 : 20

7 SECTION DETAIL
A401 1:5

PARTITION TYPES

P1 - 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

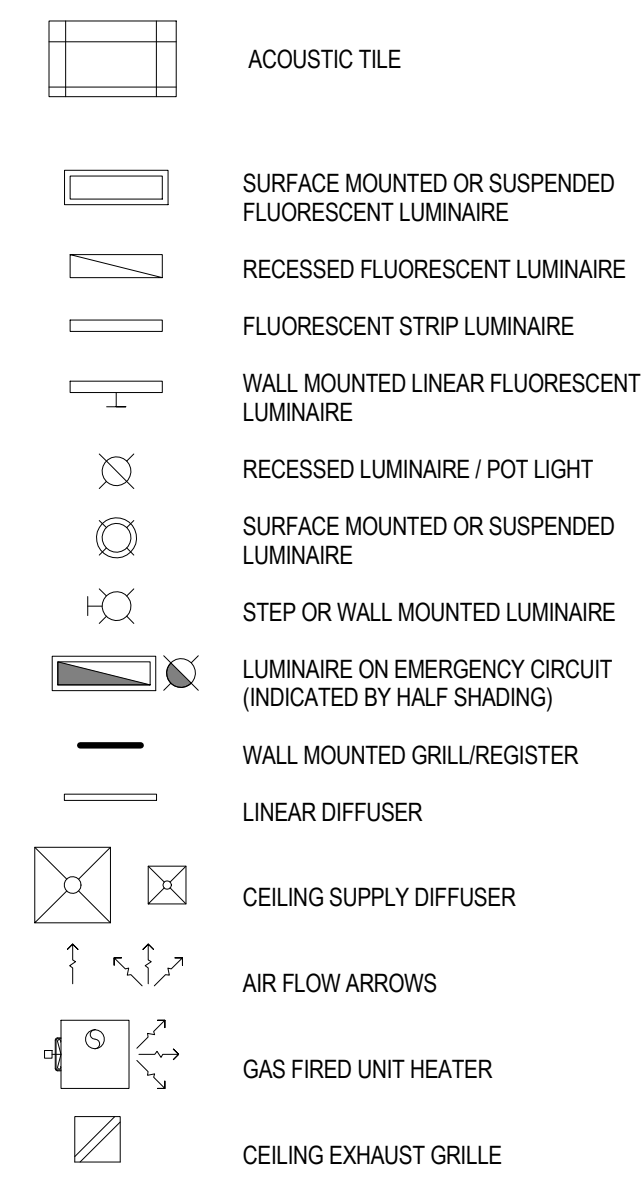
P2 - TYPICAL FURRING WALL

-16mm TYPE X GYPSUM BOARD
-92mm STEEL STUDS @ 400mm OC

CEILING TYPES

ACT-1	NEW T-BAR CEILING SYSTEM 610mm x 1220mm ACOUSTIC TILE C/W SUSPENSION SYSTEM
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

CEILING LEGEND



KEYNOTES GENERAL - A401 & A402

KEYNOTE	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 AIR WALL
06	PERFORATED METAL LAMINAR AIR WALL
07	GUN CLEARING TRAP
08	SURFACE MOUNTED LIGHT FIXTURE
09	TASK SHELF C/W VALENCE LIGHTING
10	EXHAUST HOOD
11	COAT ROD & SHELF
12	BASE TYPICAL
13	AIR COMPRESSOR LOCATED IN CABINET, PROVIDE VENTED DOOR PANEL REFER TO TYPICAL DETAIL
14	COMPUTER TOWER STORAGE, PROVIDE VENTED DOOR PANEL REFER TO TYPICAL DETAIL
15	10mm AR500 STEEL ARMOUR PLATE
16	RADIANT FIN TUBE
17	13mm DIAMETER HILTI W/ THREADED ROD INSER TAPERED WASHER EMBED MINIMUM 125mm W/ HILTI HY-200
18	C150x12x100 LONG @ 600mm OC TOP AND BOTTOM
19	LIGHT ALCOVE BEYOND NOTCH OUT FOR CONTINUATION OF RADIANT FIN TUBE
20	COMBAT WALL PLATE CONSISTING OF 25mm RUBBER FACING W/ 10mm AR500 ARMOUR BACKING PLATE ON 13mm Fire RATED PLYWOOD SHEATHING AND FIRE RATED 38x89mm WOOD STRAPPING LAY ON LONG EDGE @ 400mm OC TO EXTEND FROM FIRING LANE TO BULLET TRAP SIDEWALLS TO 2400mm IN HEIGHT



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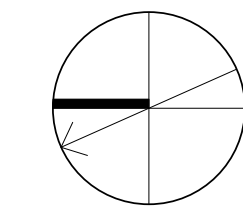
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Client/Project
GOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

EDSON, ALBERTA

Title
ENLARGED PLANS & INTERIOR ELEVATIONS

Project No.

144202775.205

Revision

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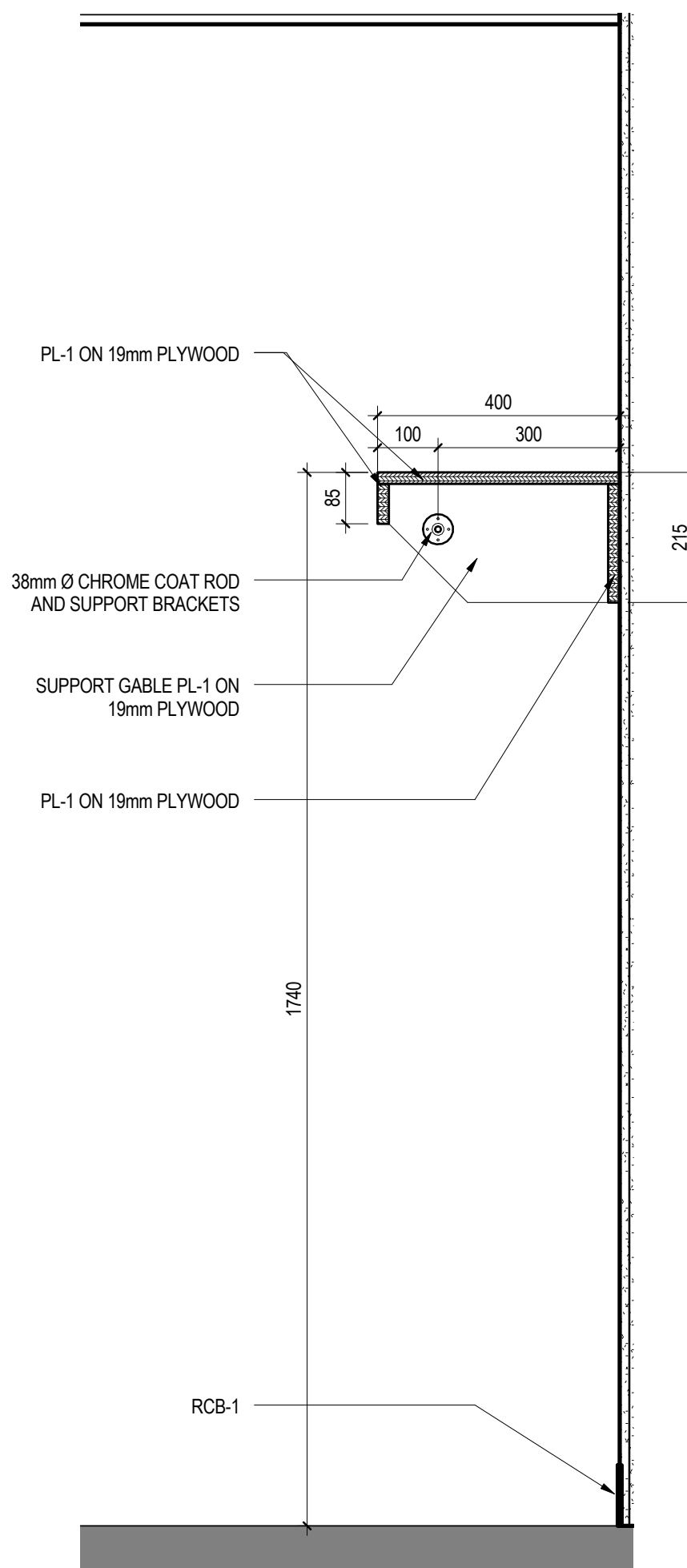
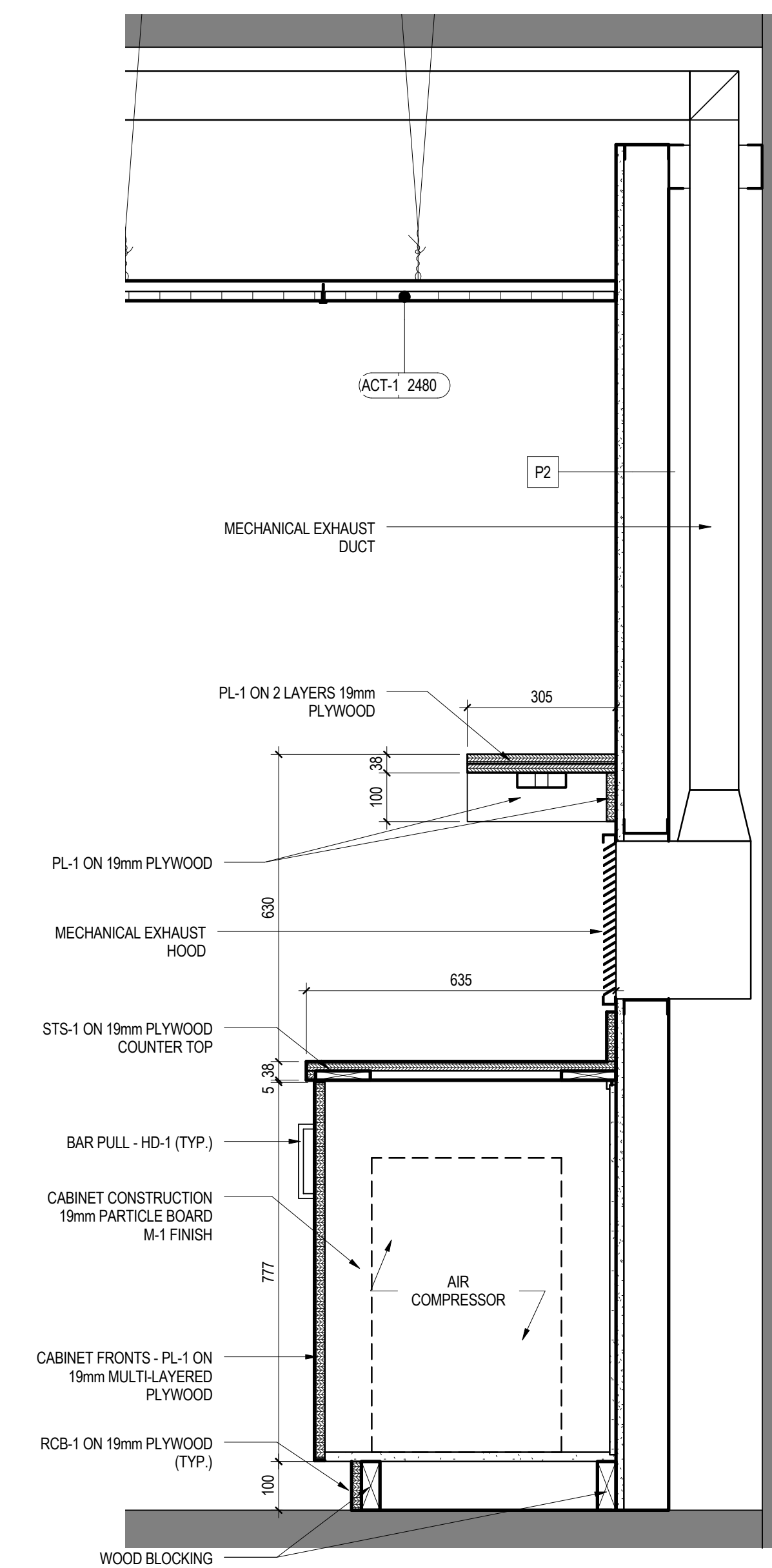
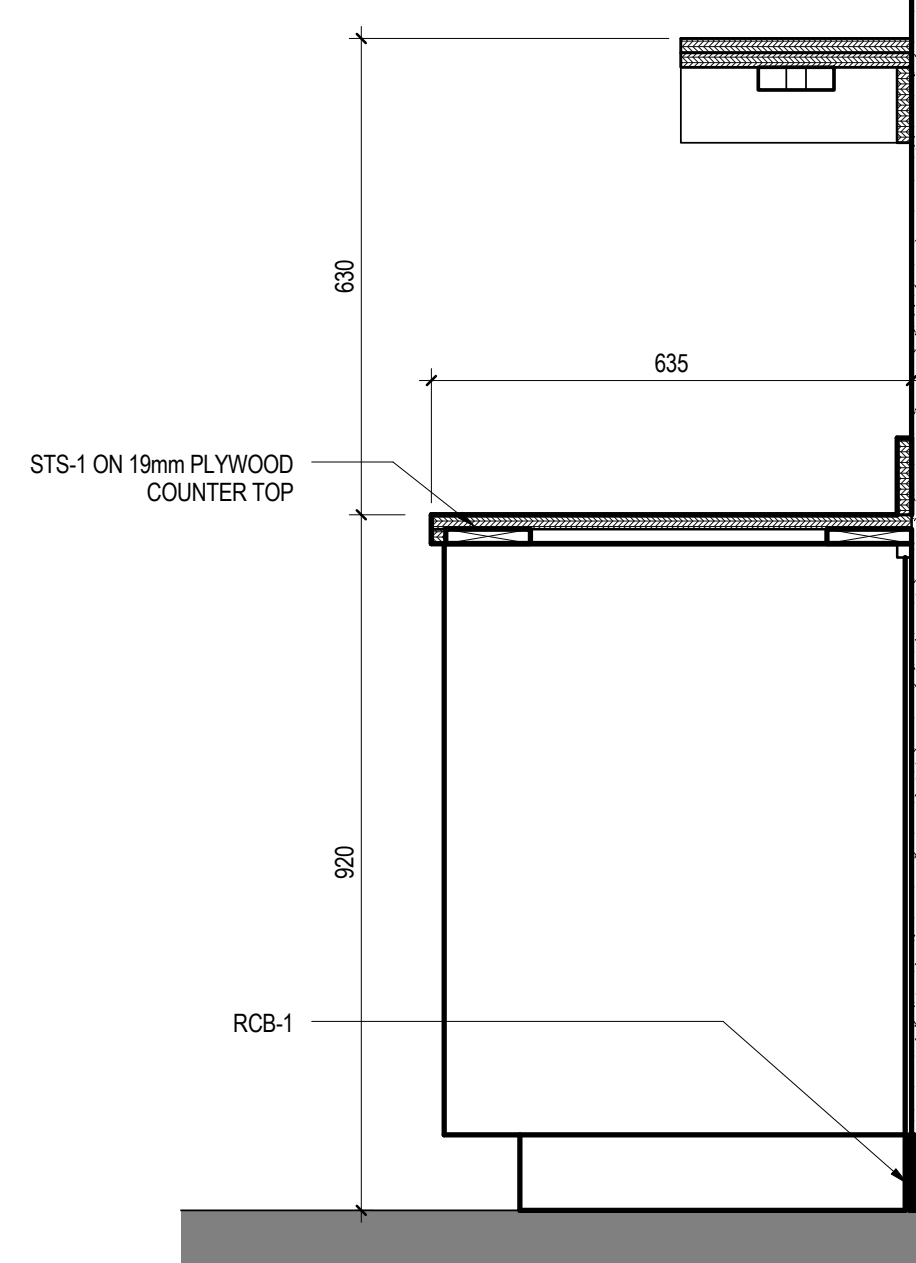
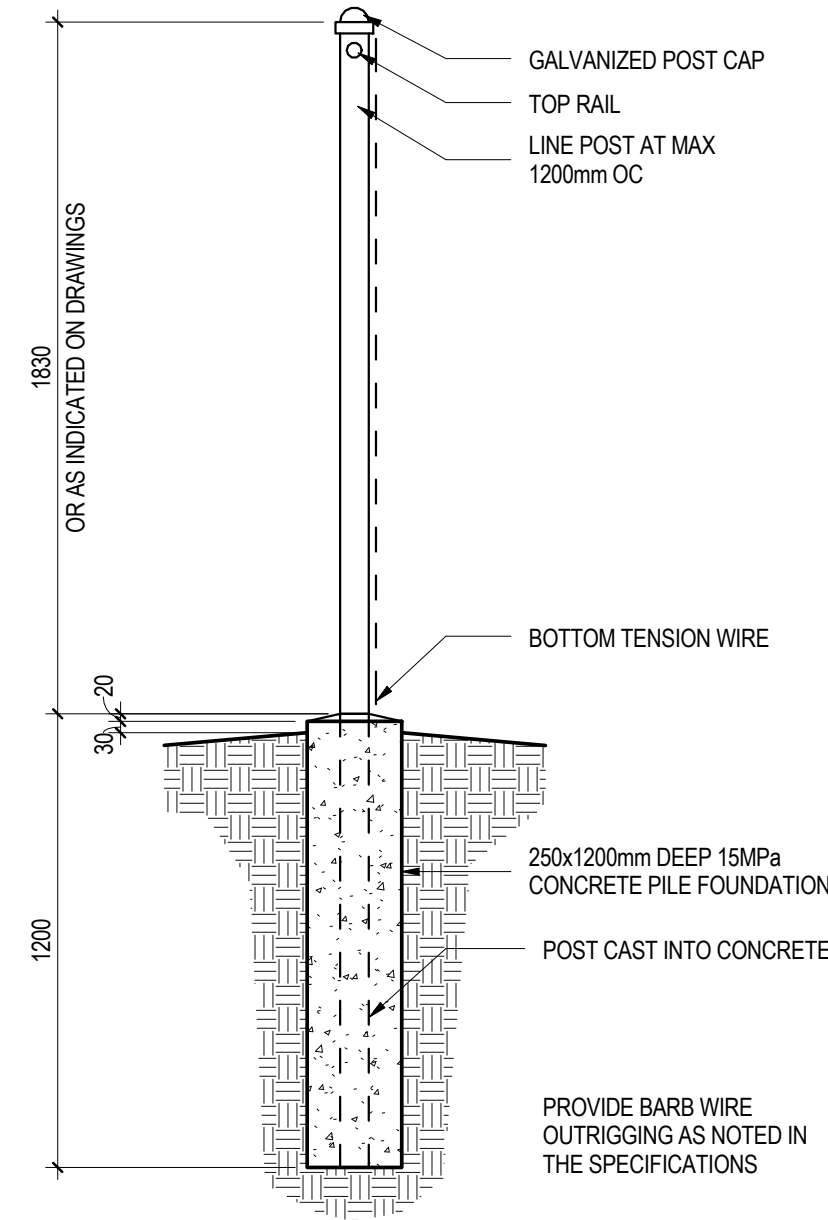
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A401



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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.

3. READ THESE DESIGN NOTES IN CONJUNCTION WITH THE CONTRACT SPECIFICATIONS AND ALL OTHER CONTRACT DOCUMENTS.

4. OBTAIN ENGINEER'S APPROVAL BEFORE CUTTING, BORING, OR SLEEVEING LOAD-BEARING MEMBERS UNLESS NOTED OTHERWISE.

5. THE STRUCTURAL DRAWINGS ARE FOR THE COMPLETED PROJECT. STABILITY OF THE EXISTING AND NEW STRUCTURE DURING CONSTRUCTION REMAINS THE RESPONSIBILITY OF THE CONTRACTOR.

6. REFER TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR SMALL OPENINGS, SLEEVES, RECESSES, DEPRESSIONS, SUMPS, TRENCHES, CURBS, HOUSEKEEPING PADS, EQUIPMENT BASES, AND SLOPES NOT INDICATED ON THE STRUCTURAL DRAWINGS.

7. OPENINGS AND SLEEVES INDICATED ON THE STRUCTURAL DRAWINGS ARE FOR REFERENCE ONLY. COORDINATE ALL OPENING LOCATIONS AND DIMENSIONS WITH THE APPROPRIATE CONSULTANT AND THE SUB-CONTRACTOR PRIOR TO CONSTRUCTION.

8. REVIEW ALL DRAWINGS AND CHECK DIMENSIONS PRIOR TO IMPLEMENTING THE WORK. REPORT ANY DISCREPANCIES TO THE CONSULTANT FOR CLARIFICATION BEFORE PROCEEDING.

9. COORDINATE PLACEMENT AND LOCATION OF ITEMS BY SUBSEQUENT TRADES. RELEVANT TRADES SHALL REVIEW PRIOR TO ERECTION AND/OR INSTALLATION.

10. NOTIFY THE ENGINEER A MINIMUM OF 48 HOURS PRIOR TO ANY SITE REVIEWS.

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.

3. NOTIFY THE CONSULTANT OF ANY SITE CONDITIONS THAT DIFFER FROM THE CONTRACT DOCUMENTS OR THE RECORD DRAWINGS.

4. SHORE AND UNDERPIN EXCAVATIONS AS REQUIRED TO PREVENT DISTURBANCE TO ADJACENT STRUCTURES, STREETS, SIDEWALKS AND UTILITIES.

DESIGN LOADS

1. UNLESS NOTED OTHERWISE, THE LOADS NOTED IN TABLES AND ON DRAWINGS ARE UNFACTORED.

2. CLIMATIC INFORMATION REFER TO CLIMATIC INFORMATION TABLE

3. SITE INFORMATION REFER TO SITE INFORMATION TABLE

4. DESIGN LOADS REFER TO DESIGN LOADS TABLE

5. LATERAL LOADS

5.1. LATERAL LOADS FROM WIND AND SEISMIC LOADS ARE RESISTED BY THE MASONRY SHEAR WALLS.

5.2. SEE FORCE MODIFICATION FACTORS TABLE.

6. CONSTRUCTION LOADS SHALL NOT EXCEED THE LOADS NOTED ON THE DRAWINGS.

7. RAIN PONDING LOADS HAVE BEEN CALCULATED BASED ON ROOF SLOPES, PARAPETS, AND SCUPPERS ASSUMING THAT DRAINS ARE ACCIDENTALLY PLUGGED FOR A PERIOD OF 24 HOURS.

8. WHERE PERMISSIBLE, LIVE LOADS HAVE BEEN REDUCED IN ACCORDANCE WITH THE NATIONAL BUILDING CODE 2010.

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.

3. THE FOLLOWING COMPONENTS REQUIRE DELEGATED DESIGN:

3.1. MORTAR, GROUT, AND CONCRETE MIX DESIGNS

3.2. CONNECTIONS TO BAFFLES

4. THE ENGINEER RESPONSIBLE FOR THE DESIGN IS ALSO RESPONSIBLE FOR REVIEW OF FABRICATION AND INSTALLATION OF THE COMPONENTS. UPON COMPLETION OF THE WORK, CERTIFY IN WRITING TO THE CONSULTANT THAT SUCH REVIEW HAS BEEN COMPLETED.

5. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.

FOUNDATION AND GEOTECHNICAL NOTES

1. FOUNDATION DESIGN IS BASED ON AN ALLOWABLE BEARING PRESSURE OF 120 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 THE GEOTECHNICAL REPORT.

3. REMOVE ALL LOOSE OR SATURATED MATERIAL AND GROUNDWATER FROM THE BASE OF FOOTING EXCAVATIONS BY APPROVED METHODS PRIOR TO PLACING FOUNDATIONS.

4. PROTECT EXCAVATIONS FOR FOOTINGS FROM RAIN, SNOW, FREEZING TEMPERATURES, STANDING WATER, LOSS OF MOISTURE AND DEGRADATION BY APPROVED METHODS.

5. BEARING SURFACES TO BE INSPECTED IN THE FIELD BY A PROFESSIONAL GEOTECHNICAL ENGINEER REGISTERED IN THE PROVINCE OF ALBERTA PRIOR TO PLACING CONCRETE. IMPROVE SUBGRADE AS DIRECTED IN WRITING BY A PROFESSIONAL GEOTECHNICAL ENGINEER REGISTERED IN THE PROVINCE OF ALBERTA.

6. GEOTECHNICAL TESTING AGENCY TO BE APPROVED BY AND RESPONSIBLE TO THE ENGINEER AND PAID FOR BY THE OWNER.

7. FOUNDATION AND RETAINING WALLS HAVE BEEN DESIGNED BASED ON THE FOLLOWING SOIL DATA:

0 TO 3 m BELOW GRADE $\gamma = 20 \text{ kN/m}^3$, $K_0 = 0.52$

8. FOUNDATION AND RETAINING WALLS HAVE BEEN DESIGNED BASED ON A SURFACE SURCHARGE LOAD OF 12 kPa.

9. FOUNDATION AND RETAINING WALLS HAVE BEEN DESIGNED ASSUMING AN EFFECTIVE DRAINAGE SYSTEM IS PROVIDED BEHIND THE WALLS AND A UNFACTORED COEFFICIENT OF FRICTION OF 0.30.

10. BACKFILL MATERIAL TO CONSIST OF CLAY TILL AND BE COMPACTED TO 98% OF STANDARD PROCTOR MAXIMUM DRY DENSITY IN MAXIMUM LIFTS OF 300mm.

11. DO NOT BACKFILL BEHIND FOUNDATION WALLS UNTIL THE FLOOR SLAB(S) TO WHICH IT IS TIED ARE COMPLETE AND CONCRETE HAS REACHED 28-DAY DESIGN STRENGTH.

12. BACKFILL WALLS AND GRADE BEAMS BELOW GRADE EVENLY ON BOTH SIDES ENSURING THAT NO PORTION OF THE FILL IS PLACED MORE THAN 600mm ABOVE ANY OTHER PORTION OF THE FILL DURING BACKFILLING.

13. BACKFILL MATERIAL – REFER TO GEOTECHNICAL REPORT.

14. PROVIDE 0.25mm POLYETHYLENE VAPOUR RETARDER UNDER STRUCTURAL SLABS ON-GRADE WITH TAPED JOINTS LAPPED 150mm ON 100mm VOID FORM OVER 150mm OF 20mm FREE-DRAINING CRUSHED GRAVEL, COMPACTED TO 98% STANDARD PROCTOR MAXIMUM DRY DENSITY.

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.

3. USE TYPE GU CEMENT FOR ALL CONCRETE UNLESS NOTED OTHERWISE IN CONTROLLED CONCRETE TABLE.

4. MAXIMUM FLY ASH CONTENT NOT TO EXCEED 25% OF THE TOTAL CEMENTITIOUS MATERIAL EXCEPT FOR FOOTINGS, PILES, COLUMNS, WALLS, GRADE BEAMS MAXIMUM 40%.

5. NOTIFY CONSULTANT 48 HOURS PRIOR TO CONCRETE PLACEMENT TO ALLOW FOR REVIEW OF REINFORCEMENT.

6. DO NOT USE ADMIXTURES CONTAINING CALCIUM CHLORIDE.

7. FOR FLOOR SLABS, DESIGN THE CONCRETE MIX WITH AGGREGATE GRADING AND WATER TO CEMENTING MATERIALS RATIO TO MINIMIZE SHRINKAGE.

8. CONSTRUCTION JOINTS

8.1. VERTICAL CONSTRUCTION JOINTS IN BEAMS AND SLABS SHALL BE AT 1/3 OF THE SPAN EXCEPT WHERE OTHERWISE SHOWN ON THE DRAWINGS OR WHERE AUTHORIZED BY THE CONSULTANT.

8.2. HORIZONTAL CONSTRUCTION JOINTS IN BEAMS AND WALLS ARE NOT PERMITTED EXCEPT WHERE SHOWN ON THE DRAWINGS OR WHERE AUTHORIZED BY THE CONSULTANT.

9. FIELD AND LABORATORY TESTING OF CONCRETE TO BE COMPLETED BY A THIRD PARTY TESTING AND INSPECTION AGENCY APPROVED BY AND RESPONSIBLE TO THE ENGINEER. TESTING AGENCY SHALL BE CERTIFIED TO CSA-A283 AND TESTING TO BE COMPLETED IN ACCORDANCE WITH CSA-A23.2. TESTING PAID FOR BY CONTRACTOR.

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. REINFORCEMENT TO BE WELDED TO CONFORM TO CSA-G30.18, GRADE 400W. WELDING ONLY PERMITTED BY AN ORGANIZATION CERTIFIED TO CSA-W498.

3. NOTIFY THE ENGINEER PRIOR TO CONCRETE PLACEMENT TO ALLOW FOR REVIEW OF REINFORCEMENT.

4. SUBMIT SHOP DRAWINGS AND DETAILS FOR ALL REINFORCEMENT FOR REVIEW PRIOR TO FABRICATION.

5. CLEAR CONCRETE COVER TO REINFORCEMENT – REFER TO CLEAR CONCRETE COVER TO REINFORCEMENT TABLE.

6. STANDARD END HOOK LENGTHS FOR REINFORCEMENT – REFER TO STANDARD END HOOKS TABLE.

7. REINFORCEMENT SPLICES – REFER TO REINFORCEMENT SPLICES TABLE.

7.1. WHERE SPLICES ARE INDICATED ON THE DRAWINGS, SUCH DIMENSIONS SHALL APPLY.

7.2. WHERE THE DRAWINGS INDICATE TENSION OR COMPRESSION SPLICES, IT SHALL BE AS INDICATED IN REINFORCEMENT SPLICES TABLE.

7.3. WHERE NO SPLICE OR SPLICE TYPE IS INDICATED ON THESE DRAWINGS, IT SHALL BE A TENSION SPLICE EXCEPT FOR COLUMNS WHICH SHALL BE A COMPRESSION SPLICE.

8. EMBEDMENT OF DOWELS – REFER TO REINFORCEMENT SPLICES TABLE.

8.1. WHERE EMBEDMENT IS DIMENSIONED ON THE DRAWINGS, SUCH DIMENSIONS SHALL APPLY.

8.2. WHERE THE DRAWINGS INDICATE TENSION OR COMPRESSION EMBEDMENT, IT SHALL BE AS NOTED IN THE REINFORCEMENT SPLICES TABLE.

8.3. WHERE NO EMBEDMENT OR EMBEDMENT TYPE IS INDICATED ON THESE DRAWINGS, IT SHALL BE A TENSION EMBEDMENT EXCEPT FOR COLUMNS WHICH SHALL BE A COMPRESSION EMBEDMENT.

9. REINFORCE ALL EXTERIOR SLABS ON GRADE WITH 10M AT 400mm ON CENTRE UNLESS NOTED OTHERWISE.

10. OPENINGS IN SLABS – PROVIDE TWO 15M BARS EACH SIDE, ONE EACH FACE, EXTENDING 600mm PAST THE OPENINGS, PLUS TWO 15M DIAGONAL BARS 1.5 TIMES THE LENGTH OF SHORTEST SIDE OF OPENING OR MINIMUM 500mm AND MAXIMUM 1500mm IN LENGTH AT EACH CORNER.

11. DO NOT CUT REINFORCEMENT AT OPENINGS WHERE IT CAN BE SPREAD CONTINUOUS AROUND OPENING.

12. TYPICAL BEAM REINFORCEMENT UNLESS OTHERWISE NOTED – TOP REINFORCEMENT TO BE CONTINUOUS OVER SUPPORTS; SPLICE 450mm AT MIDSPAN. BOTTOM REINFORCEMENT TO BE CONTINUOUS BETWEEN SUPPORTS; SPLICE 450mm AT SUPPORTS.

13. ALL REINFORCEMENT TO BE SUPPORTED AT 900mm MAXIMUM SPACING EACH WAY.

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 PRIOR TO INSTALLATION OF REINFORCEMENT.

3. PROVIDE CAMBER OF SPAN/600 FOR ALL BEAMS AND GIRDERS WITH A SPAN GREATER THAN OF EQUAL TO 8m. CAMBER BOTH THE TOP AND UNDERSIDE OF CONCRETE TO MAINTAIN SPECIFIED DEPTH UNLESS NOTED OTHERWISE.

4. LEAVE FORMS IN PLACE OR PROVIDE SHORING FOR ALL SLABS, BEAMS, AND GIRDERS UNTIL CONCRETE HAS REACHED SPECIFIED 28-DAY COMPRESSIVE STRENGTH.

5. REFER TO SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR CHAMFERS ON CORNERS FOR BEAMS, COLUMNS, AND WALLS.

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.

3. SUBMIT SHOP DRAWINGS SHOWING ALL STRUCTURAL STEEL MEMBERS FOR REVIEW PRIOR TO FABRICATION. WELDING TO CONFORM TO CSA-W59.

4. SHOP GALVANIZING TO CONFORM TO CAN/CSA-G184.

5. ALL EXPOSED WELDS TO BE CONTINUOUS. GRIND ALL EXPOSED WELDS SMOOTH, INCLUDING PAINTED STEEL.

6. SUPPLY STEEL WITH PROPERTIES NOTED IN STEEL GRADES TABLE.

7. CONNECTIONS NOT DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED AND DETAILED BY A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE PROVINCE OF ALBERTA AT THE STEEL FABRICATOR'S EXPENSE.

8. UNLESS NOTED OTHERWISE, DESIGN CONNECTIONS FOR NON-COMPOSITE BEAMS FOR A FACTORED SHEAR FORCE EQUAL TO 50% OF THE TOTAL BEAM LOAD TABULATED IN THE CISC HANDBOOK OF STEEL CONSTRUCTION.

9. PROVIDE A MINIMUM OF 2 BOLTS IN BOLTED CONNECTIONS.

10. ALL BOLTED CONNECTIONS TO USE SMUG-TIGHTENED HIGH-STRENGTH BOLTS.

11. PROVIDE 10mm R PLATE STIFFENERS EACH SIDE OF BEAM WHERE AT ALL BEARING CONNECTIONS UNLESS OTHERWISE NOTED ON THE DRAWINGS.

12. DO NOT SPLICE MATERIAL WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER. WHERE GRANTED, A COMPLETE NON-DESTRUCTIVE EXAMINATION WILL BE MANDATORY AND PAID FOR BY THE SUB-CONTRACTOR.

13. PROVIDE 10mm WEEP HOLES AT TOP AND BOTTOM OF ALL HSS COLUMNS.

14. PROVIDE CAP PLATE FOR ALL HSS COLUMNS.

15. ALL GROUT UNDER BEARING PLATES AND BASE PLATES SHALL BE NON-METALLIC, NON-SHRINK TYPE WITH MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 50MPa, INSTALLED IN ACCORDANCE WITH THE SPECIFICATION AND MANUFACTURER'S RECOMMENDATIONS. PROVIDE GROUT WEEP HOLES IN COLUMN BASE PLATES WHERE SHOWN.

16. SQUARE CUT OR FULL STRENGTH WELD ALL COLUMNS AT BASE PLATES AND AT TOP WHERE BEARING UNDER CONTINUOUS BEAMS.

17. REFER TO SPECIFICATION 05 50 00 FOR FINISHING.

18. SHOP GALVANIZING TO CONFORM TO ASTM A123/A123M.

19. SHOP AND FIELD INSPECTION OF STEEL FABRICATION AND ERECTION TO BE COMPLETED BY A THIRD PARTY TESTING AND INSPECTION AGENCY APPROVED BY AND RESPONSIBLE TO THE ENGINEER. TESTING AGENCY SHALL BE CERTIFIED TO CSA-W178. TESTING PAID FOR BY OWNER.

MASONRY

1. DESIGN, FABRICATION, ERECTION, AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CSA-S304.1 AND CAN/CSA-A307.

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.

3. MASONRY WALLS TO BE RUNNING BOND UNLESS NOTED OTHERWISE.

4. FILL CELLS CONTAINING VERTICAL REINFORCEMENT WITH CONCRETE DESIGNATED AS MASONRY COREFILL. SEE MASONRY TABLE. SITE MIXING OF CONCRETE NOT PERMITTED FOR EXTERIOR OR LOAD-BEARING WALLS.

5. PUDDLE OR VIBRATE MASONRY COREFILL IN LIFTS NOT EXCEEDING 1200mm.

6. FORM HORIZONTAL JOINTS BY STOPPING POUR 40mm BELOW THE TOP OF UNIT.

7. USE ONLY TYPE S MORTAR CONFORMING TO CSA-A179. DO NOT USE MASONRY CEMENT. USE PORTLAND CEMENT AND LIME ONLY.

8. PROVIDE CLEAN-OUT OPENINGS AT THE BOTTOM OF EACH LIFT FOR ALL CELLS BEING FILLED. THE INSIDE OF THE CELL IS TO BE FREE FROM DEBRIS AND OBSTRUCTION.

9. HORIZONTAL JOINT REINFORCEMENT TO CONFORM TO ASTM A185/A185M. PROVIDE CONTINUOUS REINFORCEMENT CONSISTING OF 2 - 9 GAUGE DIAMETER WIRE LADDER TYPE REINFORCEMENT WITH WELDED CROSS-TIES AT A VERTICAL SPACING OF 400mm FOR RUNNING BOND.

10. ALTERNATE HORIZONTAL JOINT REINFORCING TO BOND ADJOINING WALLS.

11. EXTEND VERTICAL REINFORCEMENT TO WITHIN 50mm OF TOP OF WALLS.

12. PROVIDE VERTICAL DOWELS INTO SUPPORTING CONCRETE TO MATCH BLOCK WALL REINFORCEMENT.

13. PROVIDE 400mm DEEP BOND BEAMS REINFORCED WITH 2-15M TOP AND BOTTOM AT THE TOPS OF ALL WALLS AND AT 2400mm VERTICAL SPACING. USE SPECIAL BOND BEAM UNITS TO PROVIDE CONTINUITY OF HORIZONTAL REINFORCEMENT. LAP SPLICE 900mm MINIMUM. PROVIDE CORNER BARS AT WALL INTERSECTIONS.

14. PROVIDE VERTICAL REINFORCEMENT AS NOTED IN MASONRY WALL REINFORCEMENT TABLE UNLESS NOTED OTHERWISE ON DRAWINGS. PROVIDE ADDITIONAL COREFILLS WITH DESIGNATED REINFORCEMENT AT ENDS OF WALLS, WALL INTERSECTIONS, CORNERS, AND EACH SIDE OF WINDOW OPENING, DOOR OPENINGS, CONTROL JOINTS, AND UNDER ALL LOAD BEARING ELEMENTS.

15. PROVIDE MASONRY LINTELS ABOVE OPENINGS AS NOTED IN MASONRY LINTEL REINFORCEMENT TABLE. USE 400mm DEEP LINTEL BLOCKS FOR 2 COURSE LINTELS. USE A 400mm DEEP LINTEL BLOCK WITH AN UPSIDE DOWN BOND BEAM BLOCK ON TOP FOR 3 COURSE LINTELS. USE A 400mm DEEP LINTEL BLOCK WITH TWO UPSIDE DOWN BOND BEAM BLOCK ON TOP FOR 4 COURSE LINTELS. LINTELS TO CONTINUE MINIMUM 400mm PAST EACH SIDE OF OPENINGS. BLOCK VOIDS BELOW BEARING ENDS TO BE CORE FILLED AND REINFORCED WITH 2 - 15M BARS IN EACH CORE (MIN TWO CORES EACH END), EXTEND VERTICALLY INTO LINTELS UNLESS NOTED OTHERWISE.

16. REINFORCEMENT SPLICES – REFER TO MASONRY LAP SPLICES TABLE.

17. INSTALL VERTICAL CONTROL JOINTS AT 9000mm MAXIMUM. LOCATE JOINTS AT LATERAL SUPPORTS PROVIDED BY COLUMNS, PILASTERS, CORNERS, AND INTERSECTING WALLS.

STANDARD STRUCTURAL DRAWING ABBREVIATIONS

A.B. or A.BOLT	ANCHOR BOLT	LOC	LOCATION
A.I.F.	ASPHALT IMPREGNATED FIBRE BOARD	LONGIT	LONGITUDINAL
ABT	ABOUT	M.H	MANHOLE
ABUT	ABUTMENT	M.S	MILD STEEL
ADDL	ADDITIONAL	MAX	MAXIMUM
ALUM	ALUMINIUM	MECH	MECHANICAL
APPROX or	APPROXIMATELY	MEZZ	MEZZANINE
ARCH	ARCHITECT	MIN	MINIMUM
ARND	AROUND	MISC	MISCELLANEOUS
B or BOT	BOTTOM	N.D. BARS	NELSON DEFORMED BARS
B.U.	BUILT UP	N.I.C.	NOT IN CONTRACT
BLK	BLOCK	N.S	NEAR SIDE or NELSON STUD
BLL	BOTTOM LOWER LAYER	N.T.S.	NOT TO SCALE
BM	BEAM	NO or #	NUMBER
BRG	BEARING	O.D.	OUTSIDE DIAMETER
BTWN	BETWEEN	O.F.	OUTSIDE FACE
BUL	BOTTOM UPPER LAYER	OPNG	OPENING
C.B.	CATCH BASIN	OPP	OPPOSITE
C.I.P.	CAST IN PLACE	OWSJ	OPEN WEB STEEL JOIST
C.J.	CONSTRUCTION JOINT	P.L	PROPERTY LINE
C.L. or	CENTRE LINE	P/C	PRECAST
C/C	CENTRE TO CENTRE	P/T	POST TENSIONED
C/W	COMPLETE WITH	PERIM	PERIMETER
COL	COLUMN	PERP	PERPENDICULAR
CONC	CONCRETE	PKG	PACKAGE
CONN	CONNECTION	PL	PLATE
CONT	CONTINUOUS	PLY	PLYWOOD
D or DP	DEPTH	PROJ	PROJECT
DIA or Ø	DIAMETER	PTD	PAINTED
DIAG	DIAGONAL	R or RAD	RADIUS
DO or do	DITTO	R.D.	ROOF DRAIN
DWG	DRAWING	R/W	REINFORCED WITH
DWL	DOWEL	REINF	REINFORCING
E.E.	EACH END	REM	REMAINDER
E.F.	EACH FACE	REQ'D	REQUIRED
E.J.	EXPANSION JOINT	S.J	SAWCUT JOINT
E.S.	EACH SIDE	S.O.G	SLAB ON GRADE
E.W.	EACH WAY	S.SL	STAINLESS STEEL
EL. or ELEV	ELEVATION	SIM	SIMILAR
ELECT	ELECTRICAL	SPMDD	STANDARD PROCTOR MAXIMUM DRY DENSITY
EQ	EQUAL	SQ	SQUARE
EQ. SPCS.	EQUAL SPACES	SST	SIMPSON STRONG TIE
EXIST	EXISTING	STIFF	STIFFENER
EXT	EXTERIOR	STIR	STIRRUP
F.S.	FAR SIDE	SYM	SYMMETRICAL
F.T.S.	FULL TENSION SPLICE	T	TOP
FDN	FOUNDATION	T & B	TOP & BOTTOM
FL.	FLAT PLATE	T.O.	TOP OF
FTG	FOOTING	T/F EL.	TOP OF FOOTING ELEVATION
GA	GAUGE	THK	THICK
GALV	GALVANIZED	TLL	TOP LOWER LAYER
GR BM	GRADE BEAM	TUL	TOP UPPER LAYER
H1E	HOOK ONE END	TYP	TYPICAL
H2E	HOOK TWO ENDS	UN	UNLESS NOTER OTHERWISE
H or HT	HIGH OR HEIGHT	U/S	UNDERSIDE
H.D. GALV	HOT DIPPED GALVANIZED	VERT	VERTICAL
H.R.	HANDRAIL	W	WIDE or WIDTH or WITH
HOR	HORIZONTAL	W.P.	WORKING POINT
I.C	IN CENTRE	WWM	WELDED WIRE MESH
I.D.	INSIDE DIAMETER		
I.F.	INSIDE FACE		
INCL	INCLUDING		
INSUL	INSULATION		
INT	INTERIOR		
LG	LONG		

CLIMATIC INFORMATION

TO BE READ IN CONJUNCTION WITH DESIGN LOADS DESIGN NOTES	
SNOW LOAD (1/50), Ss	2.1 kPa
SNOW LOAD (1/50), Sr	0.1 kPa
ONE DAY RAIN (1/50)	100 mm
HOURLY WIND PRESSURE (1/10)	0.36 kPa
HOURLY WIND PRESSURE (1/50)	0.46 kPa

SITE INFORMATION

TO BE READ IN CONJUNCTION WITH DESIGN LOADS DESIGN NOTES	
IMPORTANCE CATEGORY	HIGH
WIND EXPOSURE TYPE	OPEN TERRAIN
INTERNAL PRESSURE CATEGORY	2



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Legend

Notes

Revision

TENDER
Issued

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Client/Project

GOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

EDSON, ALBERTA

Title

DESIGN NOTES

Project No.

14402775.205

Revision

Scale

1 : 1

Drawing No.

Sheet

1 of 2

S001



HVAC SYMBOLS

####	RECTANGULAR DUCT	TEE, 45 DEG., ROUND MAIN AND BRANCH	TRANSITION, RECTANGULAR, PYRAMIDAL (30° CONTRACTUAL ANGLE DEFAULT)	LINEAR DIFFUSER
###0	ROUND DUCT	CONICAL WYE, 45 DEG., ROUND MAIN AND BRANCH	TRANSITION, RECTANGULAR, SIDE (30° CONTRACTUAL ANGLE DEFAULT)	AIR FLOW ARROWS
AC	ACOUSTIC DUCT INSULATION	ELBOW, RECTANGULAR, SMOOTH RADIUS WITH SPLITTER VANES (0.25 R/W DEFAULT)	SINGLE-LINE DUCT INCLINE	AIR OUTLET TAG (REFER TO SCHEDULE)
DN	DOUBLE LINE DUCT INCLINE	ELBOW, RECTANGULAR, SMOOTH RADIUS WITHOUT VANES (1.5 R/W DEFAULT)	SINGLE-LINE DUCT CHANGE IN CONSTRUCTION	DOOR GRILLE TAG (REFER TO SCHEDULE)
	SQUARE ELBOW TURN (SUPPLY UP/DOWN)	ELBOW, ROUND, SMOOTH RADIUS (1.5 R/W DEFAULT)	SINGLE-LINE DUCT BRANCH	FIRE DAMPER
	SQUARE ELBOW TURN (RETURN UP/DOWN)	ELBOW, RECTANGULAR, MITERED WITH TURNING VANES	SINGLE-LINE DUCT TAKEOFF	THERMOSTAT
	SQUARE ELBOW TURN (EXHAUST UP/DOWN)	ELBOWS, 90 DEG., RECTANGULAR TEE	DUCT CAP	PRESSURE SENSOR
	SQUARE ELBOW TURN (INTAKE UP/DOWN)	ELBOW, 90 DEG., RECTANGULAR WYE	DUCT BREAK	GENERIC SENSOR
	ELBOW, ROUND, SMOOTH RADIUS (UP/DOWN)	45 DEG., WYE, CONICAL MAIN AND BRANCH, ROUND	SINGLE-LINE SUPPLY OR RETURN DUCT	
	TEE, 45 DEG., RECTANGULAR MAIN AND BRANCH		SINGLE-LINE EXHAUST DUCT	
	TEE, 45 DEG., RECTANGULAR MAIN AND BRANCH, SQUARE TO ROUND			

PIPING IDENTIFICATION AND SYMBOLS

DOMESTIC COLD WATER	FD	FLOOR DRAIN	SANITARY/STORM TEE UP	'P' TRAP	PRESSURE GAUGE AND COCK
DOMESTIC HOT WATER		PIPE CAP	SANITARY/STORM TEE DOWN	GATE VALVE	SHOCK ABSORBER WITH HAMMER
DOMESTIC HOT WATER RECIRC.		PIPE BREAK	SANITARY/STORM BRANCH	GLOBE VALVE	UNION CONNECTION
TEMPERED WATER		FLOW ARROW	STANDARD CLEAN-OUT IN LINE END OF RUN	SWING GATE CHECK VALVE	MANUAL AIR VENT
VENT		PIPING ELBOW DOWN	STANDARD CLEAN-OUT THROUGH FLOOR END OF RUN	BALL VALVE	AUTOMATIC AIR VENT
NATURAL GAS		PIPING ELBOW UP	STANDARD CLEAN-OUT THROUGH FLOOR IN LINE	BALANCING VALVE	THERMOMETER
SAN		PIPING TEE UP	PIPING SLOPE	PLUG VALVE	PLUMBING FIXTURE TAG (REFER TO SCHEDULE)
SAN (ABOVE GRADE OR FLOOR)		PIPING TEE DOWN		BUTTERFLY VALVE	
SAN (BELOW GRADE OR FLOOR)		PIPING TEE		PRESSURE/TEMPERATURE SENSOR PORT	
HWS		SANITARY/STORM PIPING DOWN		Y STRAINER	
HWR		SANITARY/STORM PIPING UP			

FIRE EXTINGUISHER SCHEDULE

TAG No.	MANUFACTURER	TYPE	CAPACITY (kg)	ULC RATING	CLASSIFICATION	DESCRIPTION	TYPE	DESCRIPTION	STANDARD OF ACCEPTANCE
FE-1	NATIONAL	MULTI PURPOSE DRY CHEMICAL - PRESSURE TYPE	4.5	4A:80B:C	CLASS A, B & C	AMMONIUM PHOSPHATE, POWDER TYPE, HEAVY DUTY STEEL CYLINDER, BAKED ENAMEL FINISH, SQUEEZE GRIP HANDLE WITH POSITIVE ON/OFF VALVE, HOSE AND NOZZLE, MOUNTING BRACKETS	WALL HUNG IN FULLY EXPOSED CABINET	FIRE EXTINGUISHER CABINET SHALL BE 1.2mm (18 GAUGE) BAKED WHITE ENAMEL STEEL; PLEXI GLASS PANEL; CYLINDER LOCK.	NATIONAL FIRE EQUIPMENT MODEL ESC-999

GAS FIRED MAKE-UP AIR UNIT SCHEDULE

TAG No.	MANUFACTURER	MODEL No.	SERVICE	CAPACITY (L/s)	EXT. STATIC PRESS. (Pa)	MOTOR kW	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	REMARKS
MUA-1	ENGINEERED AIR	HE131/0	ROOM 003	5.334	500	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

FAN SCHEDULE

TAG No.	MANUFACTURER	MODEL No.	SERVICE	TYPE	MOUNTING ARRANGEMENT	AIR FLOW (L/s)	EXT. STATIC PRESS. (Pa)	MOTOR (kW)	MOTOR RPM	V/Ph/Hz	VFD (Y/N)	SONES	REMARKS
EF-1	GREENHECK	USF-430-AF	ROOM 003	SINGLE WIDTH BLOWER	UP DISCHARGE	5,900	1500	14.9	1732	208/3/60	N	40	FAN TO SUITABLE FOR OUTDOOR INSTALLATION; DISCHARGE POSITION - BAU; OPERATION INTERLOCKED WITH MAKE-UP AIR UNIT MUA-1 & MOTORIZED DAMPER
EF-2	GREENHECK	SQ-100-VG	CLEANING STATION	DIRECT DRIVE CENTRIFUGAL	INLINE	250	65	186	1009	120/1/60	N	4.4	C/W VIBRATION ISOLATION, POTENTIOMETER ON MOTOR; CONTROLLED BY SWITCH; INTERLOCKED WITH HRV-1 & MOTORIZED DAMPER

HEAT RECOVERY VENTILATOR SCHEDULE

HEAT RECOVERY VENTILATOR SCHEDULE																
TAG No.	MANUFACTURER	MODEL No.	SUPPLY AIR			EXHAUST AIR			WINTER SUPPLY		WINTER EXHAUST		ELECTRICAL			REMARKS
			AIR FLOW (L/s)	MAX. ALLOWABLE EXT. STATIC PRESS. (Pa)	FAN RPM	AIR FLOW (L/s)	MAX. ALLOWABLE EXT. STATIC PRESS. (Pa)	FAN RPM	ENT. AIR TEMP. DB (°C)	WB (°C)	DB (°C)	% RH	KW	FLA	V/Ph/Hz	
HRV-01	NU-AIR	NU600 HRV	252	100	1275	252	100	1275	-40.0	-40.0	21.1	30	0.50	4.5	208/3/60	C/W DRAIN KIT, SINGLE POINT POWER CONNECTION, STANDARD MERV 8 PLEATED FILTER; OPERATION IS TO BE INTERLOCKED WITH EXHAUST FAN EF-01 & MOTORIZED DAMPER.

PLUMBING FIXTURE SCHEDULE

FIXTURE TAG	TYPE	FIXTURE CONNECTIONS (mm)	DESCRIPTION
		CDW DHW DTHW DRAIN VENT	
EMERGENCY EYEWASH			
EW-1	EMERGENCY EYEWASH	- - - - -	BRADLEY MODEL S19-921 GRAVITY FED EYEWASH, 26.5 L (7 GAL) REFILLABLE TRANSPARENT YELLOW POLYCARBONATE EYEWASH TANK, OPAQUE YELLOW POLYPROPYLENE PEDESTAL WITH BLACK POLYPROPYLENE PULL DOWN ARM, STAINLESS STEEL MOUNTING BRACKET, MEETS ANSI Z358.1 REQUIREMENTS.

MECHANICAL DRAWING LIST

DRAWING No.	DRAWING NAME	SCALE
M001	MECHANICAL LEGEND, SCHEDULES & DRAWING LIST	N.T.S.
M010	MECHANICAL SITE PLAN & ROOF PLAN	1:150
M101	BASEMENT - MECHANICAL DEMOLITION & RENOVATION PLANS	1:100
M102	MECHANICAL ROOM - MECHANICAL DEMOLITION & RENOVATION PLANS	1:75
M201	MECHANICAL SECTIONS	N.T.S.
M301	MECHANICAL DETAILS	N.T.S.
M302	MECHANICAL DETAILS	N.T.S.

GAS LEGEND

DESCRIPTION	kW
MAKEUP AIR UNIT MUA-1	400.6
EXISTING LOADS	783.0
TOTAL	1183.6
NOTE: DISTRIBUTION GAS PRESSURE IS 34.45 kPa, PROVIDE PRESSURE REDUCING VALVES AS INDICATED FOR APPLIANCE REQUIRED PRESSURES, VENT ALL PRVS TO ATMOSPHERE.	

ABBREVIATIONS

EQUIPMENT	COMMON
EXHAUST FAN	EF-*
MAKEUP AIR UNIT	MUA-*
SEDIMENT INTERCEPTOR	SI-*
SUPPLY FAN	SF-*
ROOF DRAIN	RD-*
FLOOR DRAIN	FD-*
EMERGENCY EYEWASH	EW-*

PLUMBING FIXTURES

ROOF DRAIN	RD-*
FLOOR DRAIN	FD-*
EMERGENCY EYEWASH	EW-*

GRILLE & DIFFUSER SCHEDULE

GRILLE TYPE	DESCRIPTION
SUPPLY AIR	
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); 600x600 MODULE SIZE; FINISH SHALL BE B12 WHITE POWDER COAT; REFER TO DRAWINGS FOR NECK SIZES AND CAPACITIES.
TRANSFER AIR	
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.
EXHAUST AIR	
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.

AIR COMPRESSOR SCHEDULE

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	002	PORTER CABLE	C2002	23	PANCAKE	1.23	1034	0.60	120/1/60	C/W QUICK COUPLING, FLEXIBLE HOSE & BLOW GUN

ELECTRIC HEATING COIL SCHEDULE

ELECTRIC HEATING COIL SCHEDULE											
TAG No.	MANUFACTURER	MODEL No.	COIL SIZE (mm x mm)	AIR			TEMPERATURE		ELECTRICAL		REMARKS
				FLOW (L/s)	PRESS. DROP (Pa/G)	FACE VEL. (m/s)	ENT. AIR DB (°C)	LVG. AIR DB (°C)	W	V/Ph/Hz	
EHC-01	THERMOLEC	-	350x200	252	-	7.57	-40	-17.8	7.0	208/3/60	C/W BUILT IN AIR FLOW SENSOR; PROPORTIONAL DUCT STAT

FILTER SCHEDULE

SERVICE	LOCATION	MANUFACTURER	MODEL No.	FILTER TYPE	TOTAL AIR FLOW (L/s)	FILTER BANK SIZE (mm x mm)	PRESSURE DROP (Pa)	COMMENTS
							INITIAL FINAL	
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 MAGNAPACK; HOUSING TO BE SIZED FOR 3 FILTERS HIGH x 3 FILTERS WIDE; HOUSING TO BE C/W PREFILTER RACK, INSULATION AND STAINLESS STEEL CONSTRUCTION FOR EXTERIOR INSTALLATION
RANGE EXHAUST	EXTERIOR	CAMFIL	30/30	MERV 8	5,900	1970W x 1945H	75 250	

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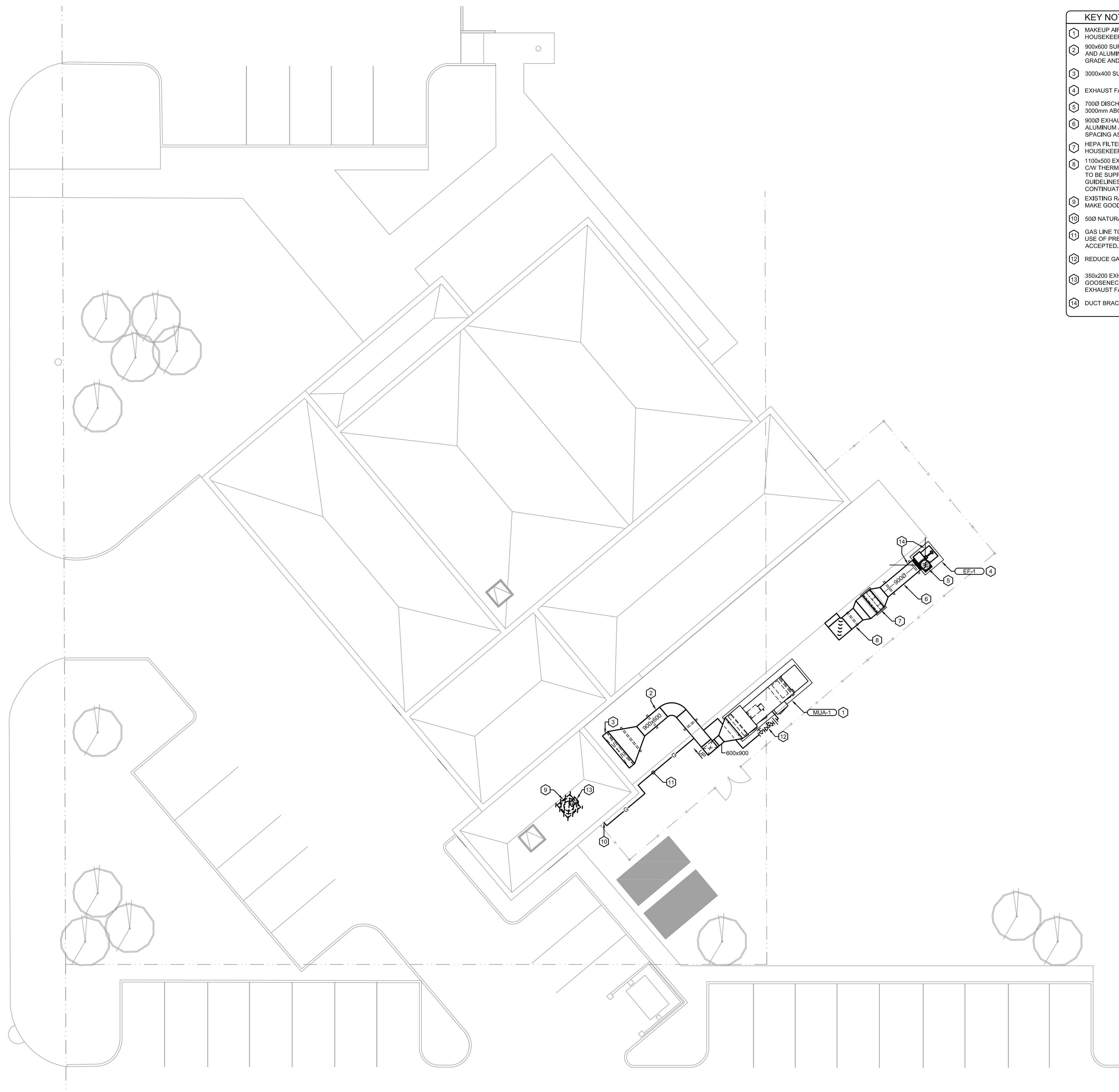
A circle divided into 6 equal sectors, with 1 sector shaded black.

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
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	Date <u>June 8, 2016</u>
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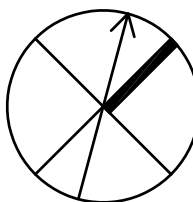
2 of 7

M010



MECHANICAL SITE PLAN & ROOF PLAN

1 : 150



GENERAL NOTES

1. BRANCH DUCTING TO DIFFUSER TO MATCH DIFFUSER NECK SIZE UNLESS NOTED OTHERWISE.
2. ALL NEW DUCTWORK AND PIPING TO BE COORDINATED WITH EXISTING SERVICES AND STRUCTURE. INSTALL ALL NEW SERVICES AS TIGHT AS POSSIBLE TO UNDERSIDE OF STRUCTURE.
3. MECHANICAL CONTRACTOR IS TO CONFIRM ALL EXISTING SYSTEMS AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO BEGINNING WORK.

PLAN 1 - KEY NOTES

- 1 EXISTING EXHAUST AIR DUCTWORK, FIRE DAMPERS, GRILLES AND HANGERS ARE TO BE REMOVED.
- 2 EXISTING 600x400 SUPPLY AIR DUCT AND FIRE DAMPER SERVING PLENUM WALL IS TO BE REMOVED THRU SLAB. PATCH AND MAKE GOOD OPENING THRU SLAB.
- 3 EXISTING 300x150 SUPPLY AIR DUCT AND FIRE DAMPER TO BE REMOVED THRU SLAB. PATCH AND MAKE GOOD OPENING THRU SLAB. REMOVE ASSOCIATED DUCTWORK, GRILLES AND HANGERS IN ROOM 002 CEILING SPACE.

PLAN 2 - KEY NOTES

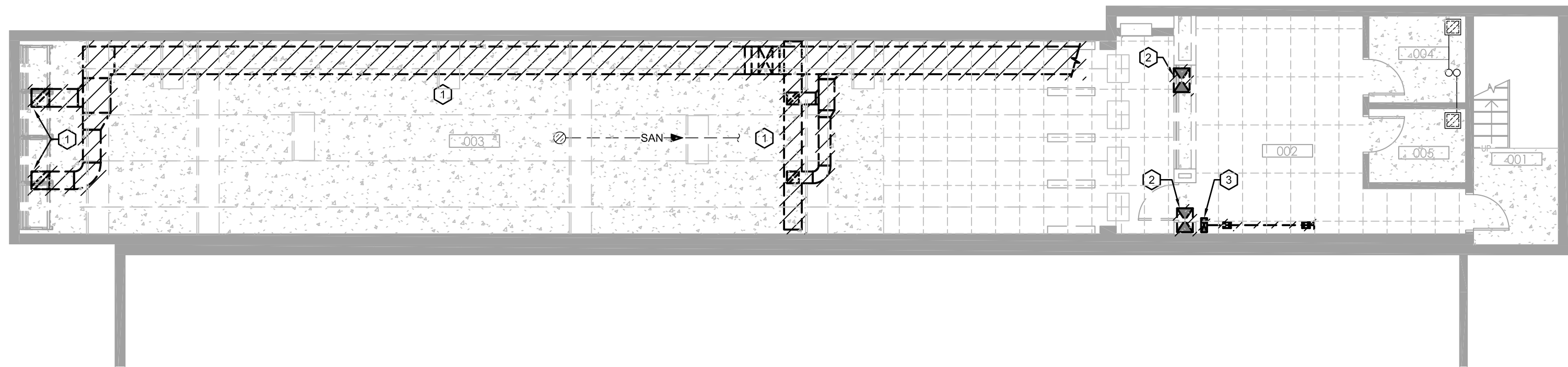
- 1 EXISTING RADIATION & CABINET LOCATED IN ROOM 002 IS TO BE REMOVED. CAP HOT WATER SUPPLY AND RETURN LINES IN WALL AT RISER.
- 2 CAP EXISTING HOT WATER SUPPLY AT THIS POINT. REMOVE PIPING AND PIPE HANGERS TO THE EXTENT SHOWN.
- 3 CONNECT NEW 250 HOT WATER SUPPLY TO EXISTING 650 HOT WATER SUPPLY AT THIS POINT.
- 4 EXISTING RADIATION & CABINET LOCATED IN ROOM 003 IS TO BE REMOVED. REMOVE HOT WATER SUPPLY AND RETURN PIPING, INCLUDING RISERS, AS SHOWN. ASSOCIATED THERMOSTAT TO BE REMOVED.
- 5 CONNECT NEW 250 HOT WATER SUPPLY TO EXISTING HOT WATER SUPPLY SERVING RADIATION IN CRAWL SPACE. RELOCATE EXISTING VALVES AS NECESSARY. RELOCATE EXISTING RADIATION AS NECESSARY TO ALLOW INSTALLATION OF NEW DUCTWORK.
- 6 CONNECT NEW 250 HOT WATER SUPPLY TO EXISTING HOT WATER SUPPLY SERVING RADIATION IN ROOM 003. RELOCATE EXISTING VALVES AS NECESSARY.
- 7 EXISTING HOT WATER SUPPLY PIPING TO/FROM RADIATION IN ROOM 003.
- 8 EXISTING RADIATION LOCATED IN ROOM 003 TO REMAIN.
- 9 EXISTING RADIATION LOCATED IN CRAWLSPACE.

PLAN 3 - KEY NOTES

- 1 WIDTH OF EXISTING EXHAUST AIR OPENING TO BE INCREASED TO BE 400mm WIDE.
- 2 1150x600 EXHAUST AIR PLENUM IN SERVICE SPACE.
- 3 1100x500 EXHAUST AIR TO EXHAUST FAN EE-1 ON EXTERIOR OF BUILDING. DUCT PENETRATION TO BE SEALED AIR TIGHT. EXHAUST AIR DUCTWORK WITHIN THE CRAWL SPACE TO BE THERMALLY INSULATED FOR 3m BACK FROM EXTERIOR WALL. REFER TO DRAWING M010 FOR CONTINUATION.
- 4 3000x400 SUPPLY AIR DOWN THRU SERVICE SPACE FROM MAKEUP AIR UNIT MUA-1.
- 5 700x400 SUPPLY AIR DUCT TO TERMINATE OPEN ENDED IN PLENUM WALL. BALANCE TO 1,775 L/s. TYPICAL OF 3.
- 6 250x250 EXHAUST AIR DUCT FROM SLOT EXHAUST AT BENCH LEVEL.
- 7 NEW AIR COMPRESSOR AC-01 TO BE LOCATED IN MILLWORK. COMPRESSED AIR LINE TO RUN ALONG BACK OF COUNTER TO CLEANING STATION.
- 8 NEW VENTILATION CONTROL PANEL.
- 9 NEW 200x200 SUPPLY AIR FROM ABOVE C/W FIRE DAMPER AT SLAB.
- 10 INSTALL NEW SEDIMENT INTERCEPTOR. MECHANICAL CONTRACTOR TO FLUSH AND CLEAN EXISTING FLOOR DRAIN AND SANITARY LINE BACK TO MAIN.
- 11 250x250 EXHAUST AIR TO ABOVE C/W FIRE DAMPER AT SLAB.
- 12 250x250 SUPPLY AIR FROM ABOVE C/W FIRE DAMPER AT SLAB.
- 13 SEAL DUCT PENETRATIONS THRU AIR PLENUM WALL AIR TIGHT.
- 14 EXHAUST GRILLE TO SERVE EXHAUST HOOD. REFER TO DETAIL D ON DRAWING M302.
- 15 PROVIDE NEW 1100x500 THERMALLY INSULATED MOTORIZED DAMPER INTERLOCKED WITH EF-1 OPERATION. MOTORIZED DAMPER TO BE EQUAL TO TAMCO SERIES 9000.

1 BASEMENT - VENTILATION DEMOLITION PLAN

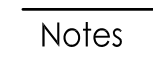
M101 1 : 100




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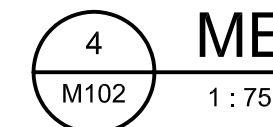
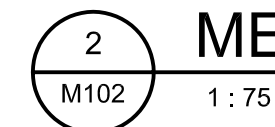
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M102



1. CONNECT NEW 200x200 SUPPLY AIR TO EXISTING 300x150 BRANCH. DUCT TO DROP TO FLOOR LEVEL. COORDINATE ROUTING OF DUCT WITH PUMPS LOCATED ALONG WALL.
2. 200x200 SUPPLY AIR DUCT DOWN TO BELOW. COORDINATE LOCATION OF DUCT DROP ON SITE WITH EXISTING EQUIPMENT IN THIS AREA.
3. EXISTING 1400x2000 OUTSIDE AIR LOUVER TO REMAIN.
4. 350x200 EXHAUST AIR FROM BELOW.
5. 350x200 EXHAUST AIR UP THRU EXISTING ROOF OPENING TO TERMINATE WITH GOOSENECK. UNUSED PORTION OF EXISTING ROOF OPENING TO BE PATCHED AND MADE GOOD.
6. PROVIDE NEW 350x200 THERMALLY INSULATED MOTORIZED DAMPER INTERLOCKED WITH HRV-01 OPERATION. MOTORIZED DAMPER TO BE EQUAL TO TAMCO SERIES 9000.

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Legend

Notes



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

Title
MECHANICAL SECTIONS

Sheet
5 of 7

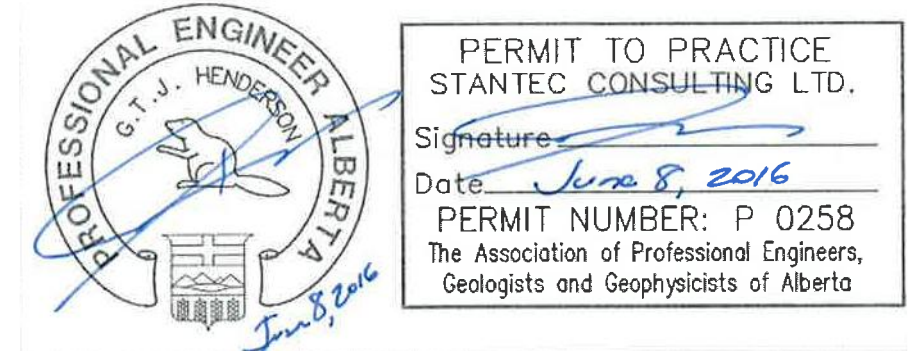
M201

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Notes

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Client/Project

GOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

EDSON, ALBERTA

Title
MECHANICAL DETAILS

Project No.
144202775.205

Revision _____ Drawing No. _____

Sheet
6 of 7

M301

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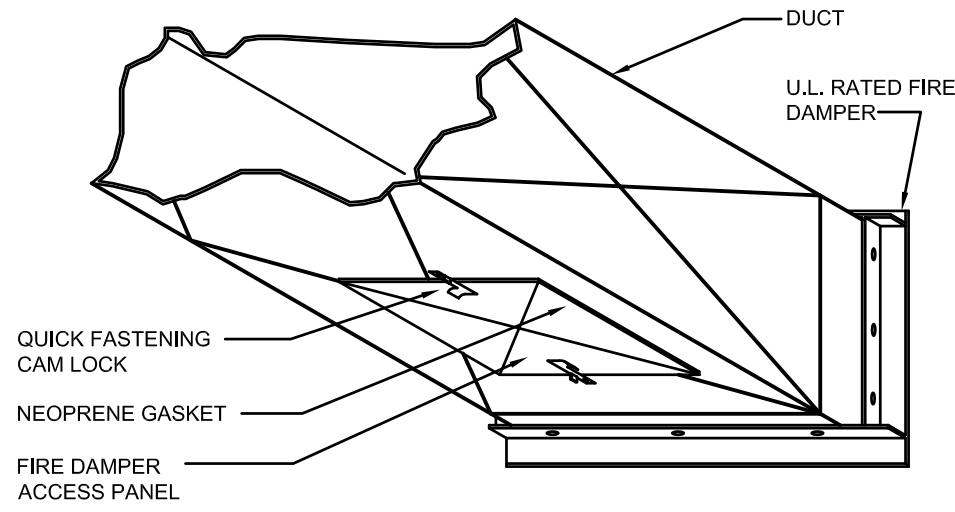
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B

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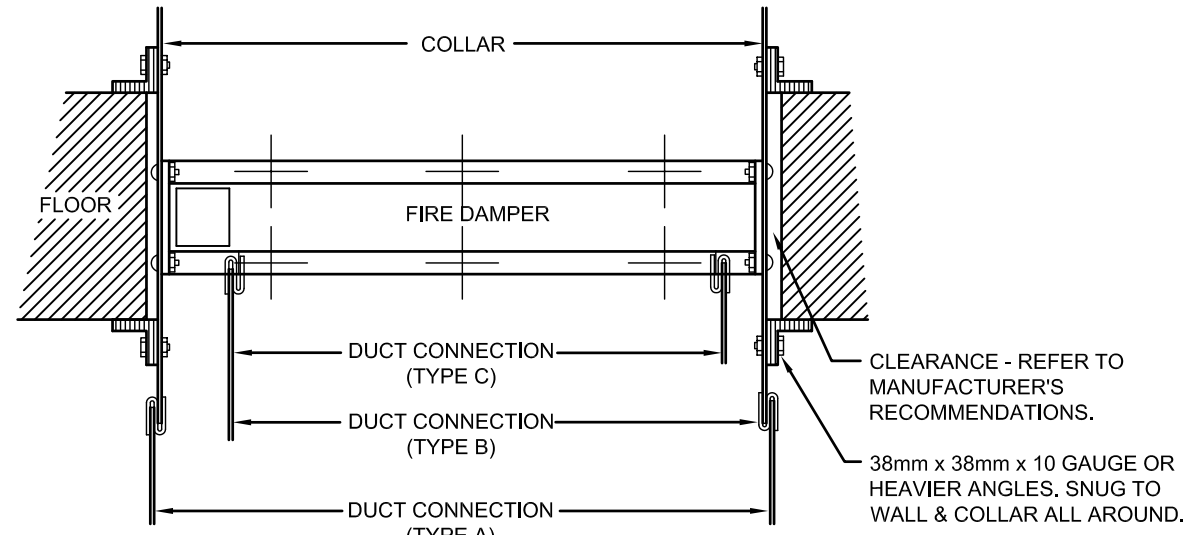
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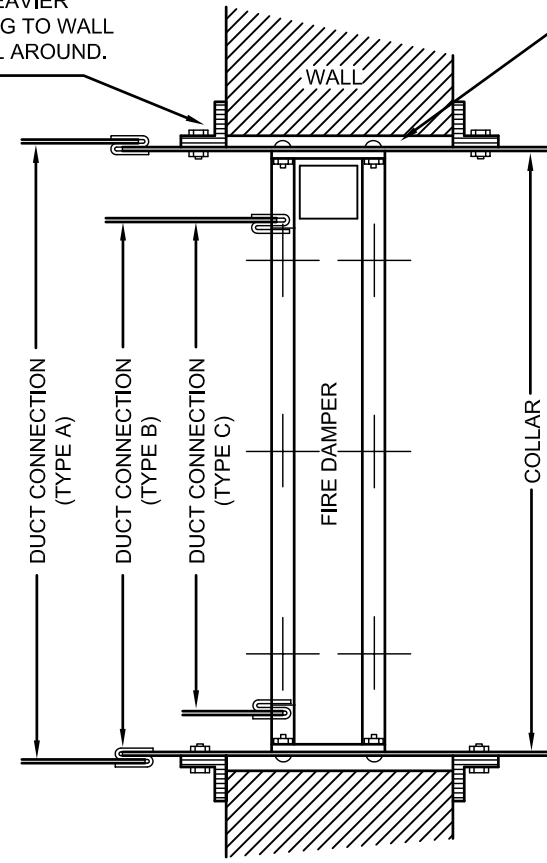


ACCESS PANEL SCHEDULE	
DUCT SIZE	ACCESS PANEL SIZE
LESS THAN 200mm WIDE	150x150 - SLEEVE MIN OF 75mm
200mm WIDE	150x150mm
250mm TO 300mm	200x200mm
300mm TO 350mm	250x250mm
OVER 350 WIDE	300x300mm

FIRE DAMPER ACCESS DETAIL



38mm x 38mm x 10
GAUGE OR HEAVIER
ANGLES, SNUG TO WALL
& COLLAR ALL AROUND.



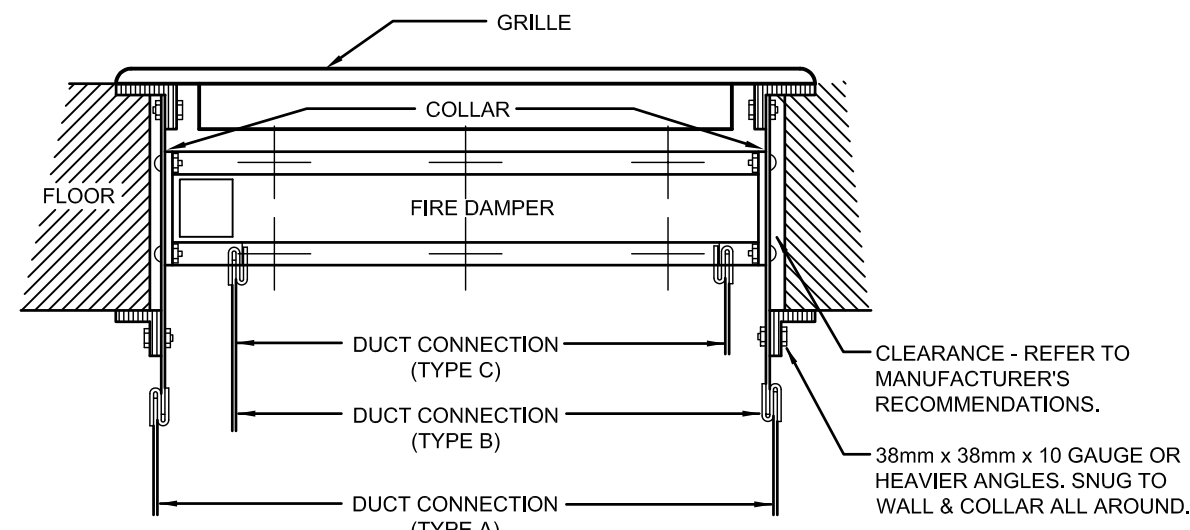
NOTE:

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 MAY BE THE SAME AS THE
GAUGE OF THE DUCT.

FIRE DAMPER DETAIL



CLEARANCE - REFER TO
MANUFACTURER'S
RECOMMENDATIONS.
38mm x 38mm x 10 GAUGE OR
HEAVIER ANGLES, SNUG TO
WALL & COLLAR ALL AROUND.

NOTE:

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

NOTE:

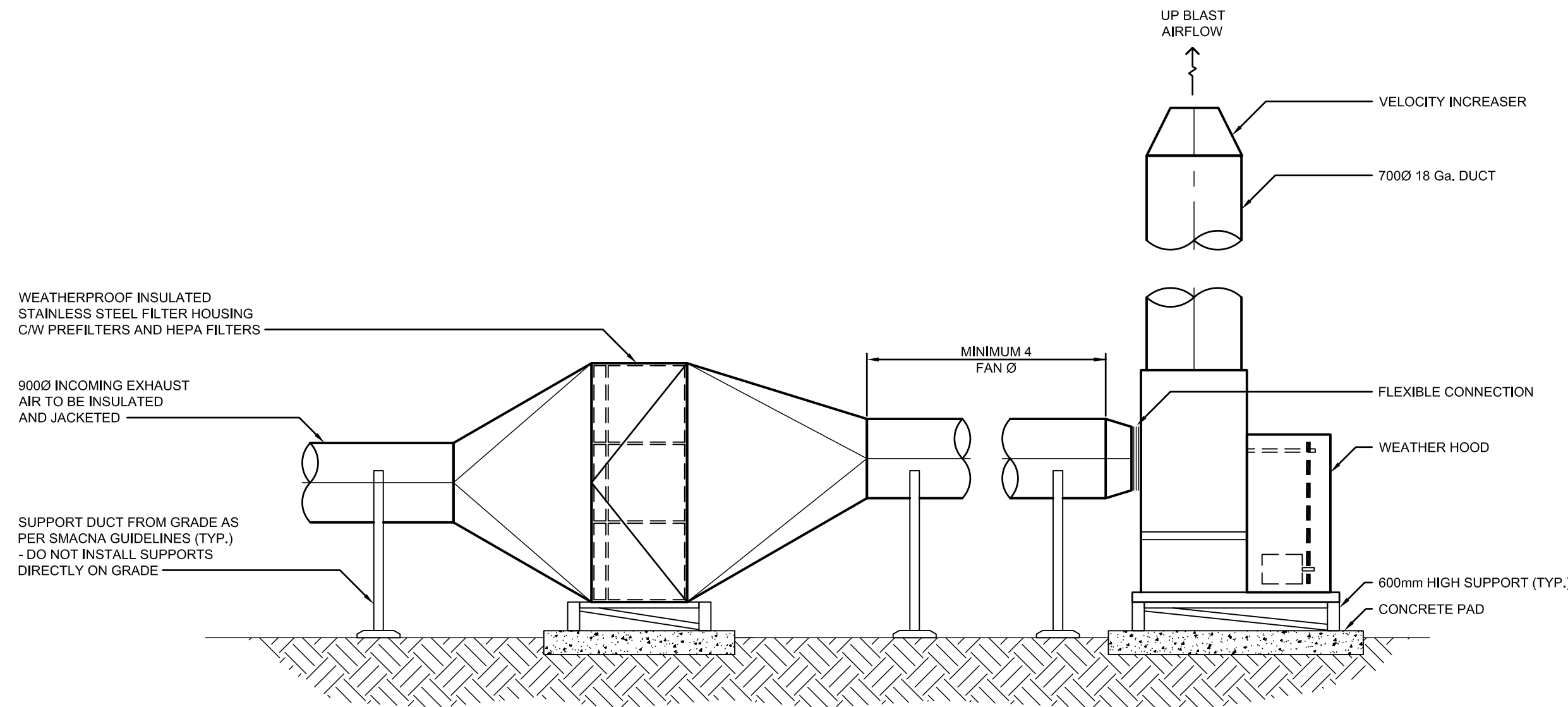
WHERE DUCT IS ATTACHED TO THE
COLLAR WITH "S" AND DRIVE
CONNECTIONS THE GAUGE OF THE
COLLAR MAY BE THE SAME AS THE
GAUGE OF THE DUCT.

GRILLE WITH FIRE DAMPER DETAIL

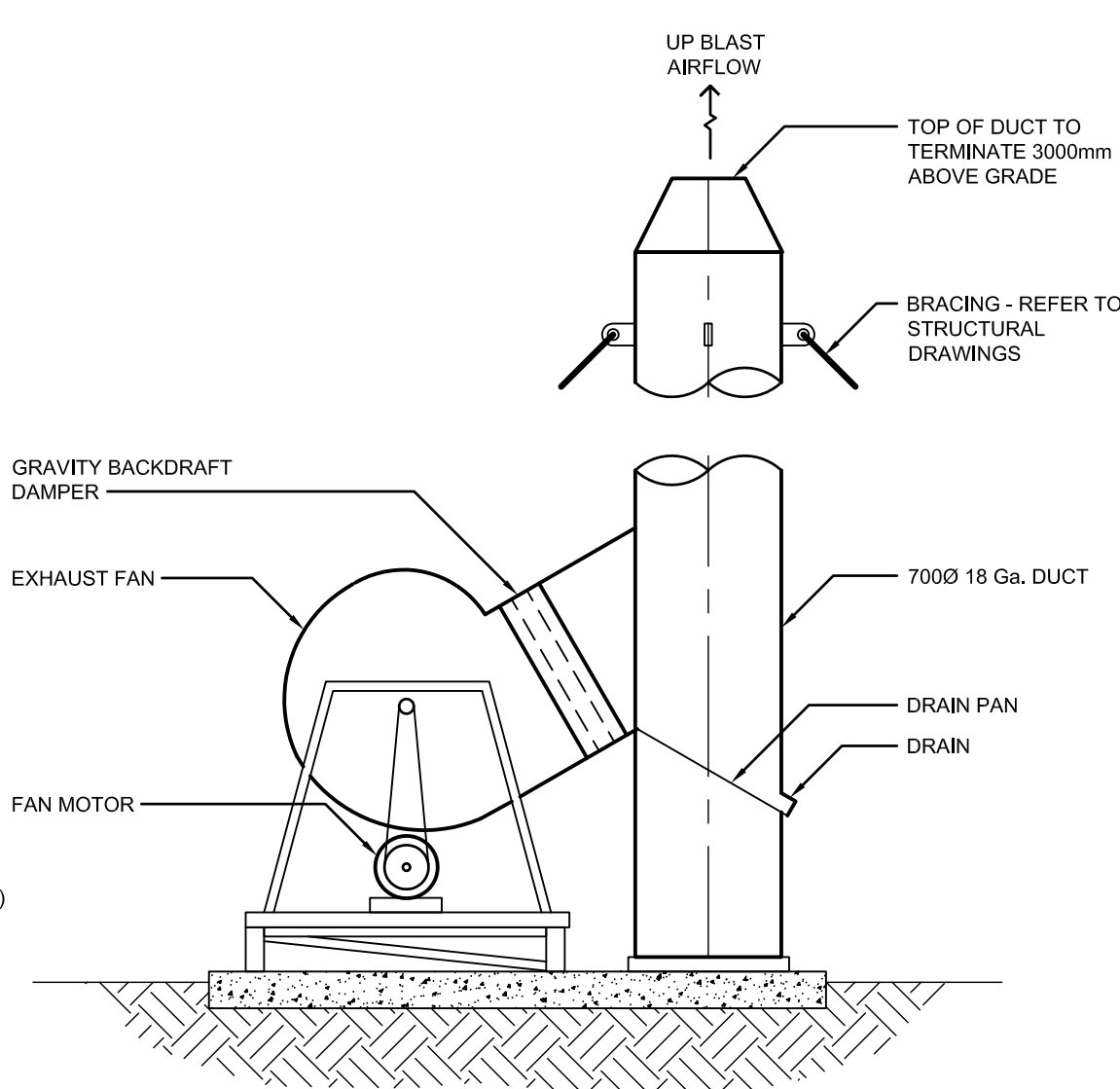


FIRE DAMPER INSTALLATION DETAILS

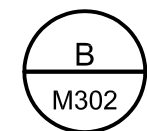
N.T.S.



FRONT VIEW



SIDE VIEW



EXHAUST FAN & HEPA FILTER DETAIL

N.T.S.



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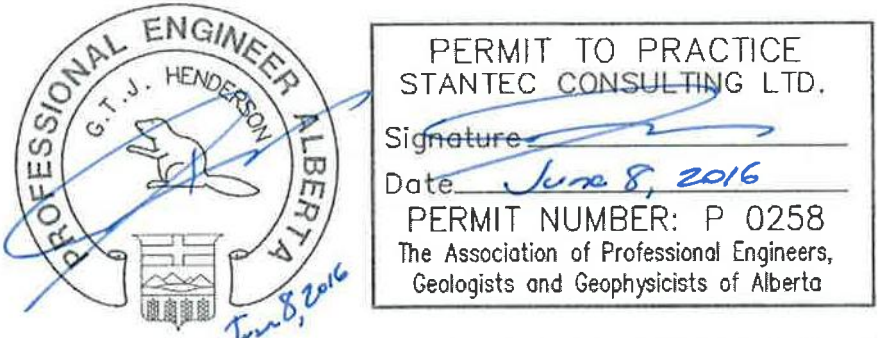
Legend

Notes

Revision

Revision	By	Appd	YYYY.MM.DD
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ISSUED FOR PRE-TENDER CLIENT REVIEW	JPH	GH	2016.04.22
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Permit-Seal



Client/Project

GOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

EDSON, ALBERTA

Title

MECHANICAL DETAILS

Project No. 144202775.205	Scale N.T.S.
Revision	Drawing No.

Sheet
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M302

A
B
C
D
E

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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		EXISTING DEVICE TO REMAIN		
	SURFACE MOUNTED OR SUSPENDED FLUORESCENT LUMINAIRE, 2'x4'		DUPLEX 5-15R RECEPTACLE C/W INTEGRAL GFCI PROTECTION		EQUIPMENT REFERENCE		REMOVE EXISTING DEVICE		
	SURFACE MOUNTED OR SUSPENDED FLUORESCENT LUMINAIRE, 2'x2'		DUPLEX 5-20R RECEPTACLE, T-SLOT		REVISION NUMBER		REPLACE EXISTING DEVICE WITH NEW DEVICE		
	RECESSED FLUORESCENT LUMINAIRE, 1'x4'		SPLIT CIRCUIT DUPLEX 5-15R RECEPTACLE		WIRING HOME RUN		RELOCATE EXISTING DEVICE		
	RECESSED FLUORESCENT LUMINAIRE, 2'x4'		TWO DUPLEX 5-15R RECEPTACLES				EXISTING DEVICE IN RELOCATED POSITION		
	RECESSED FLUORESCENT LUMINAIRE, 2'x2'		SPECIAL RECEPTACLE (TYPE AS INDICATED)				ABOVE FINISHED FLOOR		
	FLUORESCENT STRIP LUMINAIRE, 4'		CEILING MOUNTED DUPLEX 5-15R RECEPTACLE				ABOVE FINISHED GRADE		
	FLUORESCENT STRIP LUMINAIRE, 3'		TWO CEILING MOUNTED DUPLEX 5-15R RECEPTACLES				BUILDING MANAGEMENT SYSTEM		
	FLUORESCENT STRIP LUMINAIRE, 2'		CEILING MOUNTED JUNCTION BOX				GROUND FAULT		
	WALL MOUNTED LINEAR FLUORESCENT LUMINAIRE, 4'		WALL MOUNTED JUNCTION BOX				GFCI GROUND FAULT CIRCUIT INTERRUPTER		
	WALL MOUNTED LINEAR FLUORESCENT LUMINAIRE, 3'		FLOOR MOUNTED JUNCTION BOX				HOUSEKEEPING		
	RECESSED LUMINAIRE / POT LIGHT, 6" DIAMETER OR LARGER		POWER PANELBOARD				ON CENTER		
	RECESSED LUMINAIRE / POT LIGHT, LESS THAN 6" DIAMETER		PANEL (TYPE AS INDICATED - SECURITY, LIGHTING RELAY, ETC.)				JUNCTION BOX		
	SURFACE MOUNTED OR SUSPENDED LUMINAIRE		SURFACE RACEWAY (TYPE AS INDICATED)				MCC MOTOR CONTROL CENTER		
	STEP OR WALL MOUNTED LUMINAIRE		PUSHBUTTON (TYPE AND WIRING AS INDICATED)				MICROWAVE		
	LUMINAIRE ON EMERGENCY CIRCUIT (INDICATED BY HALF SHADING)		GROUND BUS BAR				NORMALLY CLOSED		
			ROOM REFERENCE GROUND BUS				NORMALLY OPEN		
			MOTOR				SURGE PROTECTIVE DEVICE		
			MOTOR C/W DISCONNECT SWITCH				TAMPER RESISTANT		
			COMBINATION DISCONNECT AND MAGNETIC MOTOR STARTER				TELEVISION		
			DISCONNECT SWITCH				TYPICAL		
			FUSED DISCONNECT SWITCH				WEATHERPROOF		
			MAGNETIC MOTOR STARTER				NUMBER DATA AND VOICE CABLES		
			THERMOSTAT				INDICATES DEVICE MOUNTED ABOVE MILLWORK COUNTERTOP COORDINATE EXACT MOUNTING HEIGHT WITH ARCH. DETAIL		
			MANUAL MOTOR STARTER C/W PILOT LIGHT				INDICATES DEVICE MOUNTED BELOW MILLWORK COUNTERTOP COORDINATE EXACT MOUNTING HEIGHT WITH ARCH. DETAIL		
			CONDUIT STUB				INDICATES DEVICE MOUNTED IN FURNITURE SYSTEM		
			CONDUIT UP				INDICATES DEVICE MOUNTED ABOVE DATA RACK		
			CONDUIT DOWN						
PUBLIC ADDRESS & AUDIO-VISUAL SYMBOLS		TELECOMMUNICATIONS SYMBOLS		FIRE ALARM SYMBOLS		SECURITY/ACCESS CONTROL SYMBOLS			
	CEILING MOUNTED SPEAKER		WALL MOUNTED TELECOM OUTLET (# DENOTES NUMBER OF CABLES)		FIRE ALARM MANUAL STATION		WALL MOUNTED SECURITY CAMERA		
	WALL MOUNTED SPEAKER		FLOOR MOUNTED TELECOM OUTLET (# DENOTES NUMBER OF CABLES)		FIRE ALARM BELL		WALL MOUNTED SECURITY CAMERA, FIXED		
			CEILING MOUNTED TELECOM OUTLET (# DENOTES NUMBER OF CABLES)		FIRE ALARM PIEZO (MINI) SOUNDER		WALL MOUNTED SECURITY CAMERA, PAN/TILT/ZOOM		
			INTERCOM STATION		FIRE ALARM ELECTRONIC HORN/SOUNDER/CHIME		CEILING MOUNTED SECURITY CAMERA		
			WIRELESS ACCESS POINT		FIRE ALARM ELECTRONIC HORN/SOUNDER/CHIME C/W STROBE		CEILING MOUNTED SECURITY CAMERA, FIXED		
			WALL MOUNTED TELEVISION OUTLET		FIRE ALARM HORN SPEAKER		CEILING MOUNTED SECURITY CAMERA, PAN/TILT/ZOOM		
			CEILING MOUNTED TELEVISION OUTLET		FIRE ALARM CONE SPEAKER				
			FLOOR MOUNTED TELEVISION OUTLET		FIRE ALARM CONE SPEAKER C/W STROBE				
			FIBRE OPTIC OUTLET		FIRE ALARM BELL C/W STROBE				
			CABLE TRAY, AS INDICATED		CEILING MOUNTED REMOTE EVACUATION STROBE				

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PERMIT NUMBER: P 0258
2016-06-08

E100

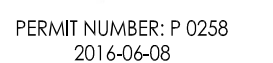


- ## ELECTRICAL DEMOLITION NOTES:
1. THE DEMOLITION NOTES ARE INTENDED TO ASSIST THE ELECTRICAL CONTRACTOR IN ESTABLISHING AREAS REQUIRING DISCONNECTION, REMOVAL, OR RELOCATION OF ELECTRICAL EQUIPMENT, ETC. AND DO NOT INDICATE ALL EXACT QUANTITIES OR EXTENT OF DEMOLITION AND RECONNECTION WHICH MAY BE REQUIRED. THE ELECTRICAL CONTRACTOR SHALL VISIT THE JOBSITE AND THOROUGHLY EXAMINE ALL EXISTING DEMOLITION WORK AND INCLUDE ALL LABOUR AND INCIDENTALS WHICH MAY BE NECESSARY TO PERFORM DEMOLITION RECONNECTION AND TEMPORARY POWER CONNECTIONS IN THE BID.
 2. 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 CLEARANCE OR REMOVAL OF EQUIPMENT WILL BE ALLOWED FOR REPAIR AND REPLACEMENT OF ELECTRICAL CIRCUITS AND OR EQUIPMENT DAMAGED BY THE DEMOLITION WORK OF OTHER RESULTING FROM THE FAILURE OF THE ELECTRICAL CONTRACTOR TO CLEARLY IDENTIFY SAID CIRCUITS OR EQUIPMENT.
 3. THE ELECTRICAL CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED CABLES, CONDUITS, ELECTRICAL BOXES, FITTINGS AND HANGING MATERIALS FOR ELECTRICAL EQUIPMENT.

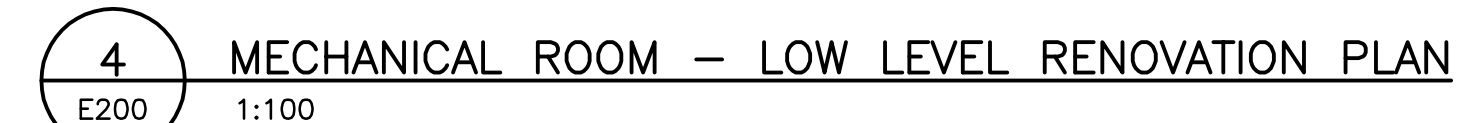
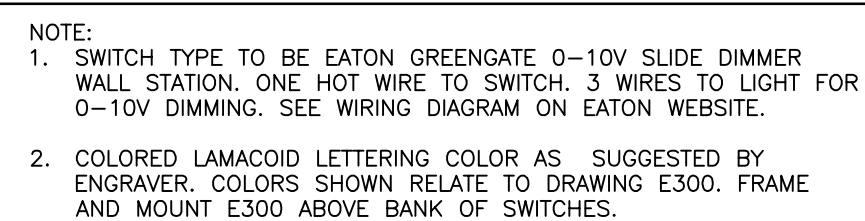
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A circle divided into 6 equal sectors, with 1 sector shaded black.

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E200



- 1 SEE DETAIL 3/E200 FOR SWITCHING LAYOUT.
- 2 NEW EXIT SIGN SHALL BE TIED INTO EXISTING EXIT SIGN CIRCUIT.
- 3 MOUNT NEW CEILING RECEPTACLE SO IT IS PROTECTED BY CEILING BAFFLES.

- 1 FUTURE CAMERA HOME RUN TO UNDER CONTROL DESK. CAMERA JUNCTION BOX TO BE LOCATED ABOVE END POINT OF BALLISTIC CEILING.
- 2 CEILING MOUNTED JUNCTION BOX. CONDUIT TO UNDER CONTROL DESK IN ROOM 002.
- 3 SPEAKER JUNCTION BOX. HOME RUN TO UNDER CONTROL DESK.
- 4 TARGET RAIL POWER JUNCTION BOX AND TARGET RETRIEVAL SYSTEM CONDUIT. JUNCTION BOX WITH CONDUIT BACK TO UNDER CONTROL DESK FOR FUTURE ROOM 003 CONTROL. JUNCTION BOX IS 152"x152"x102". EACH FUTURE TARGET SHALL BE CONNECTED TO 20A-1P POWER CIRCUIT C2-1 FOR TOP TWO LANES AND C2-3 FOR BOTTOM TWO LANES.
- 5 JUNCTION AND 27mm CONDUIT BACK TO JUNCTION BOX CONTROL DESK FOR FUTURE RUNNING MAN TARGET SYSTEM. RECEPTACLE AND JUNCTION TO BE PROTECTED BY BAFFLE.
- 6 EXISTING JUNCTION BOX IN WALL FOR BEAM DETECTORS TIE IN CONDUITS TO ROOM 003 CONTROL JUNCTION BOX.
- 7 REPLACE EXISTING BELLS WITH BELL/STROBES.
- 8 SEE KEYNOTE 3 ON E100.
- 9 NEW ROOM 003 VENTILATION CONTROL PANEL.
- 10 NEW EXHAUST FAN EF-1 REFER TO MECHANICAL DRAWING FOR EXACT LOCATION.
- 11 ELECTRICAL CONTRACTOR TO ALLOW FOR 53mmC FROM OVER CURRENT PROTECTION TO LOCATION OF MECHANICAL EQUIPMENT. POWER FROM EXISTING OVER CURRENT PROTECTION TO EXTERIOR WALL OF MECHANICAL ROOM. INSTALL LB AND RUN CONDUIT AND WIRE DOWN WALL TRANSITION TO RIGID PVC AT GROUND LEVEL AND RUN UNDERGROUND CONDUIT AND WIRE TO MECHANICAL EQUIPMENT. REFER TO MECHANICAL SHOP DRAWING FOR EXACT LOCATION OF STUD UP TO MECHANICAL ROOM. INSTALL SPARE 27mm PVC CONDUIT STUD UP TO EXTERIOR WALL AND CAP AT BOTH ENDS.

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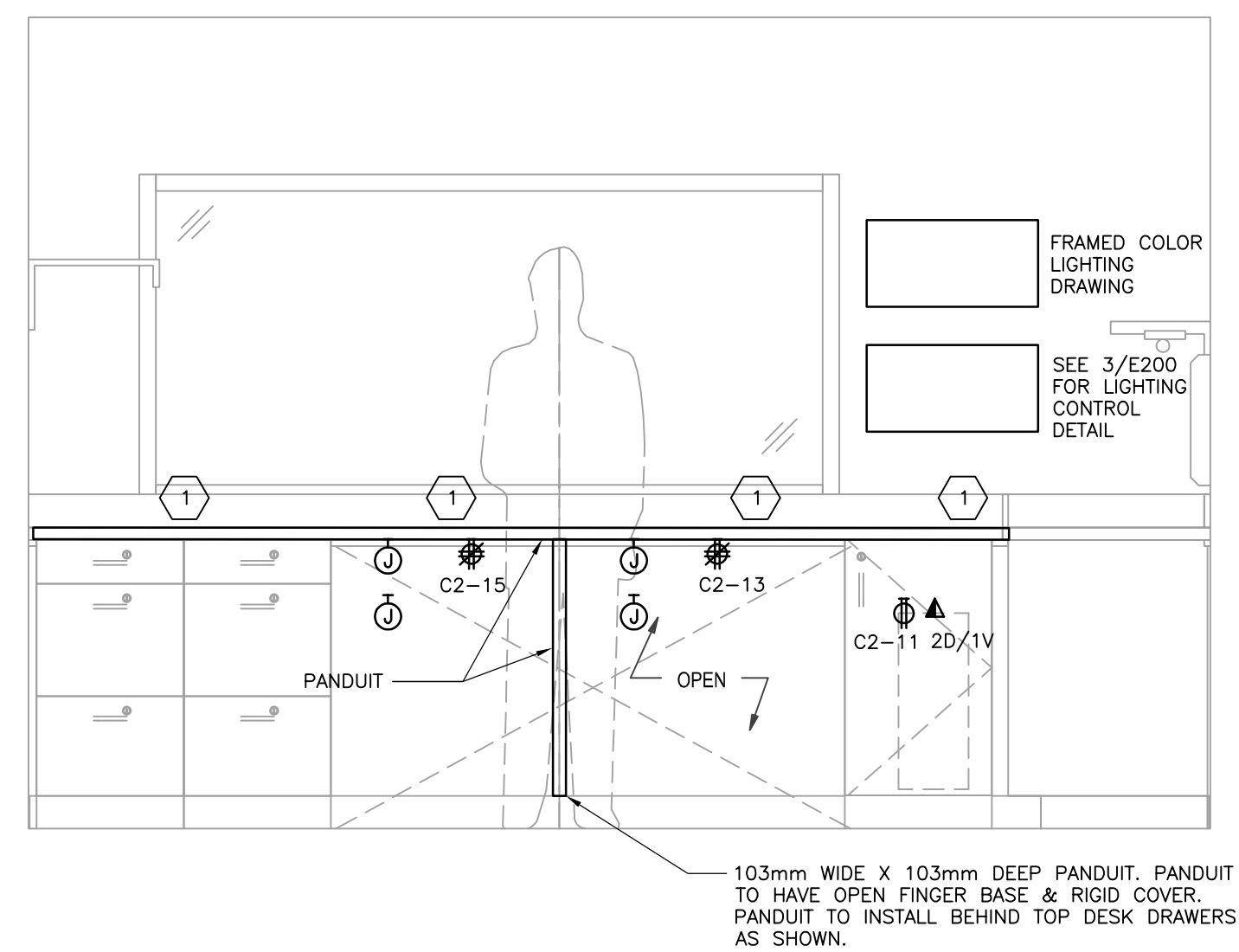
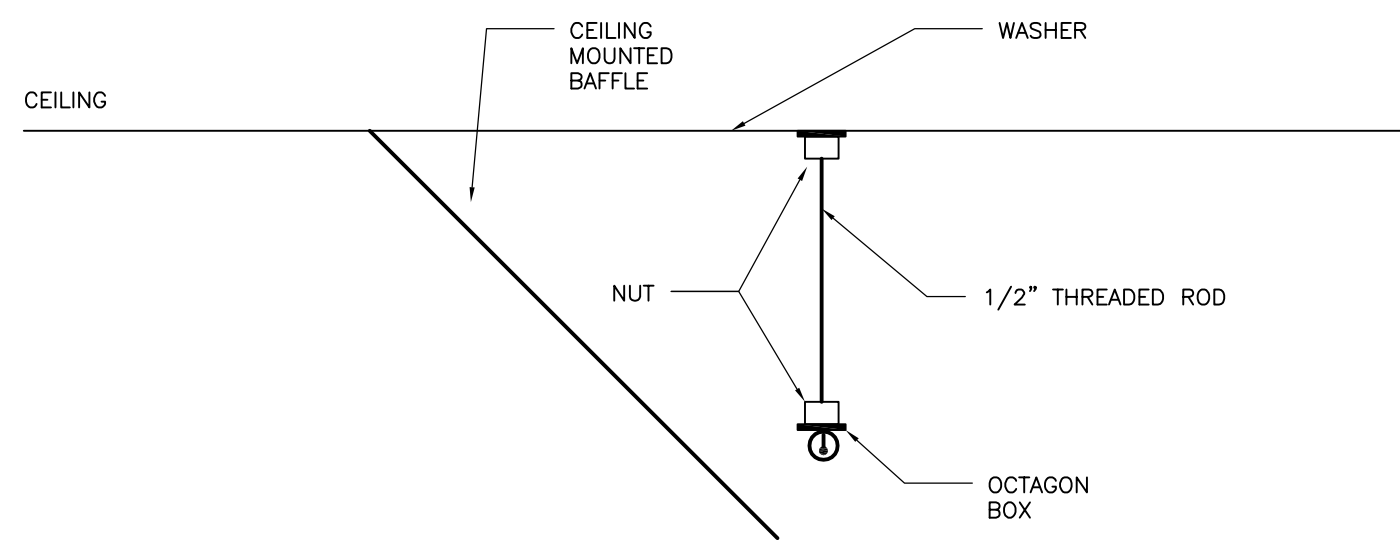
TENDER CLIENT REVIEW	DM	TJS	2016.06.08
Issued	By	Appd	YYYY.MM.DD



PERMIT NUMBER: P 0258
2016-06-08

Sheet
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KEYNOTE:
1 53mm GROMMET IN DESK TOP. 53mm FROM BACK EDGE OF DESK TO CENTER.

NOTES:
1. ALL JUNCTION BOX ARE 152mmX152mmX152mm WITH CUSTOM OVERSIZED COVERPLATE. 53mm CENTER HOLE PUNCHED IN COVER PLATE AND 53mm GROMMET INSTALLED IN THIS HOLE.

1 HEAT DETECTOR INSTALLATION DETAIL
E400 N.T.S.

2 ROOM 003 - CONTROL DESK MILLWORK DETAIL
E400 N.T.S.

MECHANICAL EQUIPMENT SCHEDULE																												
UNIT No.	UNIT	LOCATION	LOAD				VOLTS	PHASE	PACKAGED UNIT	STARTER & ACCESSORIES							CONTROL				CIRCUIT	BREAKER	LOCAL DISCONNECT	FEEDER (SEE NOTE 8)	FIRE ALARM PANEL (Y/N)	EMERGENCY POWER (Y/N)	REMARKS	
			HP	KW	FLA	MOP				TYPE [B]	CONTROL [C]	PILOT LIGHTS [E]	SUPPLIED BY [A]	INSTALLED BY [A]	WIRING BY [A]	TYPE [D]	SUPPLIED BY [A]	INSTALLED BY [A]	WIRING BY [A]									
EF-1	EXHAUST FAN	GRADE	20.00				208	3									DDC	M	M	M	EXISTING CDP	100A-3P			53mmC - 3#3 AWG Cu + #8 GRD.	N	N	INSTALL NEW BREAKER IN EXISITNG CDP
EF-2	EXHAUST FAN	MECH ROOM	0.25		3.70		120	1									DDC	M	M	M	C2-4	15A-1P			21mmC - 2#12 AWG Cu + #12 GRD.	N	N	
MUA-1	MAKE-UP AIR UNIT	GRADE			44.40		208	3									DDC	M	M	M	EXISITNG CDP	100A-3P			53mmC - 3#3 AWG Cu + #8 GRD.	N	N	INSTALL NEW BREAKER IN EXISITNG CDP
AC-1	AIR COMPRESSOR	ROOM 002	0.80				120	1									S	E	E	E	C2-6	35A-1P			27mmC - 2#8 AWG Cu + #12 GRD.	N	N	
HRV-1	HEAT RECOVERY VENTILATOR	MECH ROOM		0.50	4.50		120	1									DDC	M	M	M	C2-8	15A-1P			21mmC - 2#12 AWG Cu + #12 GRD.	N	N	
EHC-1	ELECTRIC HEATING COIL	MECH ROOM		7.00			208	3									T	M	E	E	C2-10,12,14	30A-3P			21mmC - 2#10 AWG Cu + #10 GRD.	N	N	
			[A] SUPPLIED BY: E = ELECTRICAL M = MECHANICAL		[B] STARTER TYPE: D = DIRECT CONNECTION CM = COMBINATION MA = MANUAL C/W PILOT LIGHT MG = MAGNETIC STARTER MG2 = MAGNETIC STARTER (2-SPEED) REC = RECEPTACLE SS = SOFT START VFD = VARIABLE FREQUENCY DRIVE				[C] CONTROL TYPE: HOA = HAND/OFF/AUTO OA = OFF/AUTO OO = ON/OFF SS = START/STOP							[D] CONTROL DEVICE: C = TIME CLOCK DDC = DIRECT DIGITAL CONTROLS ET = ELECTRONIC THERMOSTAT F = FLOAT SWITCH FA = FIRE ALARM GS = GAS SENSOR H = HUMIDISTAT I = INTERLOCK O = OTHER (IDENTIFY) P = PRESSURE SWITCH S = MANUAL SWITCH T = THERMOSTAT				[E] PILOT LIGHTS: R = RED (OFF) G = GREEN (ON)				NOTES: 1. FIRE ALARM SHUTDOWN REQUIRED. 2. EMERGENCY POWER. 3. STARTER IN DIV. 21, 22 OR 23 PACKAGED UNIT. 4. VARIABLE SPEED CONTROLLERS BY DIV. 22 & 23. 5. TWO SPEED STARTER. 6. REDUCED VOLTAGE STARTER. 7. FIRE ALARM STARTUP REQUIRED. 8. CABLE SIZE SHOWN IS MINIMUM SIZE. FOLLOW LATEST C.E.C. AND/OR LEED AS REQUIRED				



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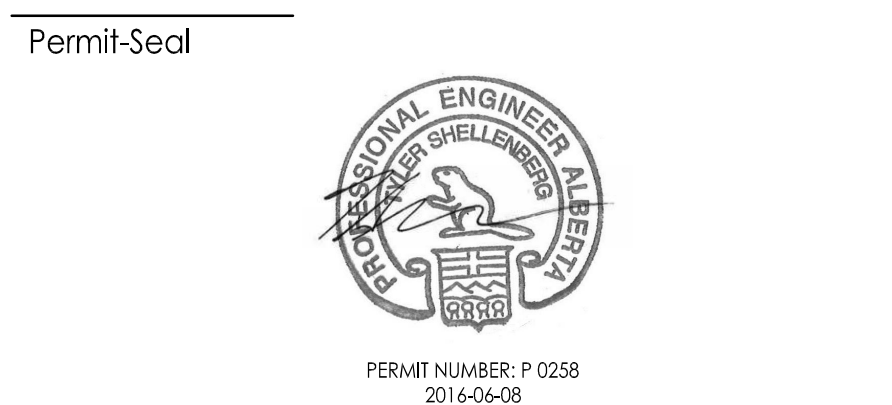
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Client/Project
GOVERNMENT OF CANADA
EDSON, ALBERTA
Title
ELECTRICAL DETAILS AND MECHANICAL EQUIPMENT SCHEDULE
Project No.
144202775.205
Scale
1:100
Revision
00
Drawing No.
E400
Sheet
5 of 5