

TENDER 2016.06.08

EXISTING BUILDING RENOVATION

EDMONTON, ALBERTA

Stantec Project #: 144202775.215

ARCHITECT:

STANTEC ARCHITECTURE LTD.

325 - 25 ST SE
CALGARY, AB
T2A 7H8

INDEX - ARCHITECTURAL	
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A111	SUB-BASEMENT DEMOLITION & CONSTRUCTION PLANS
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A301	SECTION & DETAILS
A401	ENLARGED PLANS
A402	INTERIOR ELEVATIONS
A601	MILLWORK DETAILS

STRUCTURAL ENGINEER:

STANTEC CONSULTING LTD.

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MECHANICAL ENGINEER:

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M201	MECHANICAL SECTIONS & PARTIAL PLAN
M301	MECHANICAL DETAILS
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ELECTRICAL ENGINEER:

STANTEC CONSULTING LTD.

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E300	BASEMENT FLOOR PLAN - COLOR LIGHTING MAP
E400	ELECTRICAL DETAILS



Seal Block

GENERAL NOTES:

3. ALL WORK TO CONFORM TO THE NATIONAL BUILDING CODE 2010 AND ALBERTA BUILDING CODE 2014, WHICHEVER 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. WHEN MECHANICAL 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 BLENDE 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 COW OVERLAPED FOAM 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 TIE INTO EXISTING MATERIALS TO BE A CONTINUOUS SYSTEM.

DOOR SCHEDULE

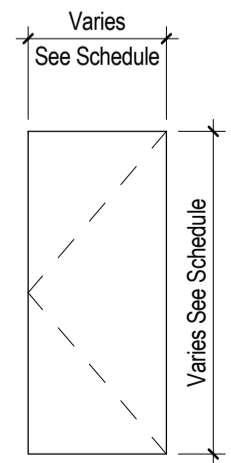
No.	CLEAR DIM		NO OF PANELS	DOOR			FRAME				OPENING			LOCK FCNT	HDWR SET	COMMENTS		
	W	H		PANEL WIDTHS	THCK	TYPE	MATL	FINISH	TYPE	MATL	FINISH	FIRE LABEL	GLAZ				STC RATING	
SUB-BASEMENT SLAB																		
SR01-A.1	900	2150	1	900	0	45	F	HM	PT-2	1	PSF	PT-2/2	N/A	N/A	55	F11	002	PT-2 IN SR01-A & PT-3 IN SR05
SR01-A.2	900	2150	1	900	0	45	F	HM	PT-2/PT-3	1	PSF	PT-2/PT-3	N/A	N/A	55	F01	001	
SR05.1	900	2150	1	900	0	45	F	HM	PT-2/PT-3	2	PSF	PT	45	N/A	55	F15	003	

FINISH SCHEDULE

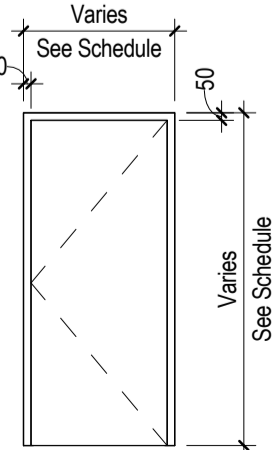
LEGEND	DESCRIPTION	MANUFACTURER	STYLE	COLOUR	COMMENTS
ACT-1	ACOUSTIC CEILING TILE - 610x1220mm, 15/16" SQUARE LAY-IN MEDIUM TEXTURE TILE C/W SUSPENSION SYSTEM	ARMSTRONG OR EQUIVALENT	CORTEGA	WHITE	
AP-1	ACOUTIC / SOUND DEADENING MATERIAL	BY RANGE EQUIPMENT MANUFACTURER	TBC	TBC	STYLE & COLOUR TO BE SELECTED FROM MANUFACTURERS STANDARD COLOUR PALETTE
HD-1	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/EQUIPMENT/CEILING	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	SILVERSTONE 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

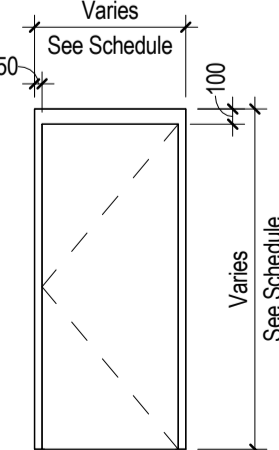
No.	CEILING	FLOOR	BASE	WALL				COMMENTS
				NORTH	EAST	SOUTH	WEST	
SUB-BASEMENT SLAB								
SB01	ACT-1	RES-1	RCB-1	PT-1	PT-1	PT-1	PT-1	
SB01A	ACT-1	RES-1	RCB-1	PT-1	PT-1	PT-1	PT-1	
SB02	EXISTING	EXISTING	RCB-1	PT-1	PT-1	PT-1	PT-1	
SB05	ACT-1 / BAFFLES / PT-3	SFC-1	SFC-1	PT-3 / AP-1	PT-3	PT-3 / AP-1	PT-3	



F DOOR TYPES



1 FRAME TYPES



2

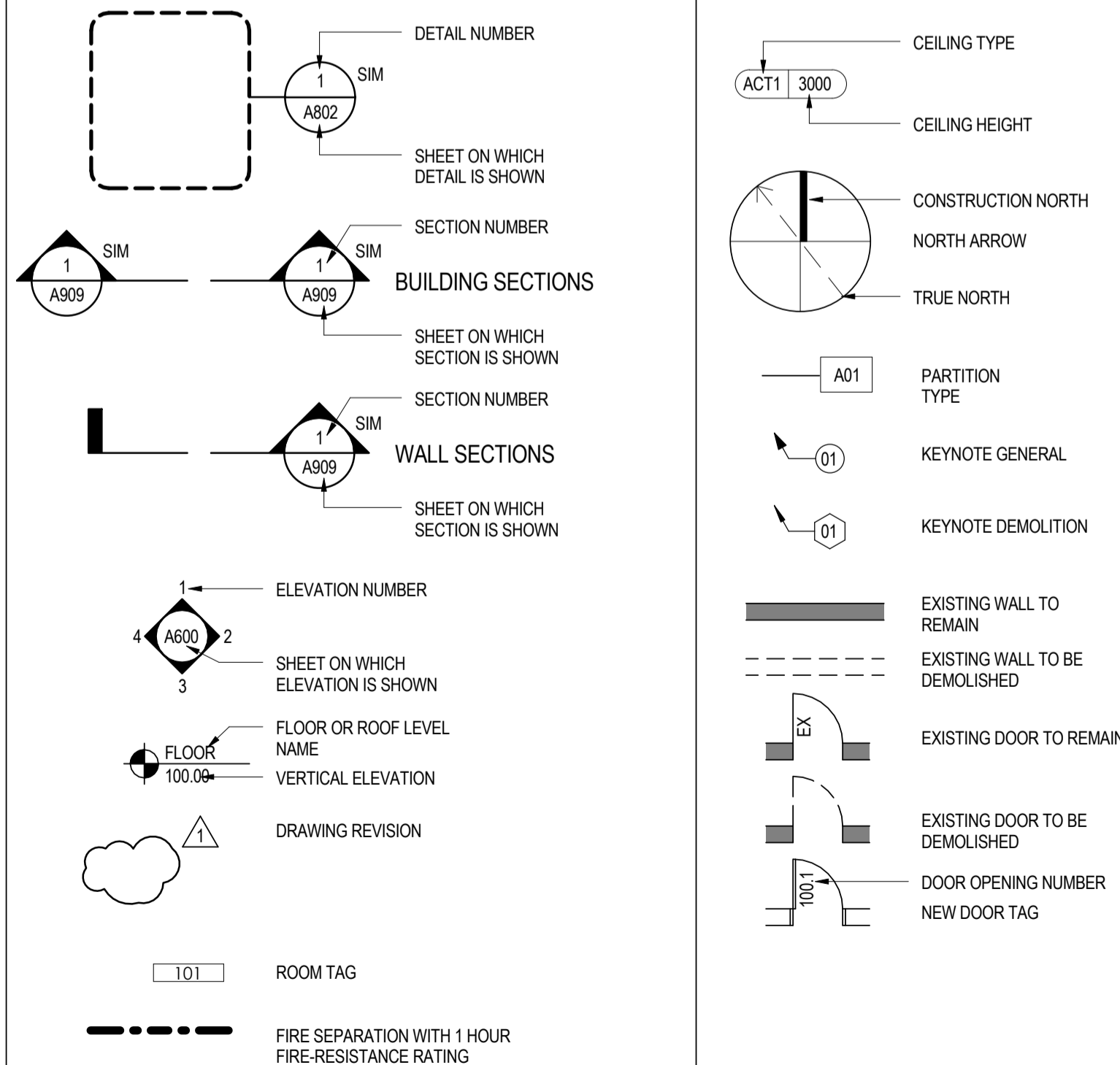
ABBREVIATION LEGEND

ABBREVIATION	DESCRIPTION
AFF	ABOVE FINISH FLOOR
ACT	ACOUSTIC CEILING TILE
ALUM	ALUMINUM
ANOD	ANODIZED
APPROX	APPROXIMATE
BLDG	BUILDING
CL	CENTER LINE
C/W	COMPLETE WITH
CONT	CONTINUOUS
D	DEEP
DEG (°)	DEGREE
DIAG	DIAGONAL
DIA (ø)	DIAMETER
DIM	DIMENSION
DWG(S)	DRAWINGS
Ea	EACH
ELEC	ELECTRICAL
ELEV (EL)	ELEVATION
EQ	EQUAL
EXIST (EX)	EXISTING
EXT	EXTERIOR
FL (FLR)	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
MCH	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

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 LOCATED WITHIN THE BASEMENT AND UPGRADES TO ELECTRICAL AND MECHANICAL SYSTEMS.	
BUILDING HEIGHT	-3 STOREY	NBC/ABC 1.4.1.2.
BUILDING AREA	<div> <div>EXISTING BUILDING AREAS</div> <div>EXISTING BUILDING FOOTPRINT = 5880 sq m</div> </div> <div> <div>RENOVATION AREA</div> <div>SUB-BASEMENT = 358 sq m</div> </div> <div> <div>SUB-BASEMENT</div> <div>= 5049 sq m</div> </div> <div> <div>BASEMENT</div> <div>= 4921 sq m</div> </div> <div> <div>FIRST FLOOR</div> <div>= 5892 sq m</div> </div> <div> <div>SECOND FLOOR</div> <div>= 5340 sq m</div> </div> <div> <div>THIRD FLOOR</div> <div>= 5215 sq m</div> </div>	NBC/ABC 1.4.1.2.
BUILDING CLASSIFICATION	BUILDING WAS CONSTRUCTED TO THE 1990 NATIONAL BUILDING CODE AND 1990 ALBERTA BUILDING CODE SPRINKLERED THROUGHOUT UPPER FLOORS 'D' CLASSIFICATION 3.2.2.42. 'D' CLASSIFICATION 3.2.2.37. 'A2' CLASSIFICATION 3.2.2.22. LOWER FLOORS 'F3' CLASSIFICATION 3.2.2.63.	
FLAME-SPREAD RATING	-INTERIOR WALLS AND CEILINGS 150 MAX -EXITS 25 MAX -VERTICAL SERVICE SHAFT 25 MAX	NBC TABLE 3.1.13.7. ABC TABLE 3.1.13.2.
OCCUPANT LOAD	NO CHANGES TO EXISTING OCCUPANT LOAD	NBC/ABC TABLE 3.1.17.1.
PORTABLE FIRE EXTINGUISHERS	PORTABLE EXTINGUISHERS SHALL BE PROVIDED AND INSTALLED	NBC TABLE 3.2.5.16. ABC TABLE 3.2.5.15.
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.
DOORS AND DOOR HARDWARE	-A DOOR THAT OPENS INTO OR IS LOCATED WITHIN A PUBLIC CORRIDOR OR EXIT FROM A SUITE SHALL PROVIDE A CLEAR OPENING OF NOT LESS THAN 800mm	NBC/ABC 3.3.1.13.
LOCATION OF EXITS	-MAXIMUM TRAVEL DISTANCE OF 45m FROM ANY AREA WITHIN A FLOOR AREA TO AN EXIT.	ABC/NBC 3.4.2.5.1)c)
EXIT WIDTH	-EXIT CORRIDORS AND PASSAGEWAYS =1100mm MINIMUM =1100mm MINIMUM -RAMPS =900mm MINIMUM =800mm MINIMUM -STAIRS -DOORWAYS	NBC/ABC 3.4.3.2.(A)
WATER CLOSET	NO CHANGE TO OCCUPANCY FIXTURES WILL BE UPGRADED IN ADJACENT WASHROOM	

DRAWING SYMBOLS LEGEND



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Consultants

Legend

Notes

Revision	By	Appd	YYYY.MM.DD
TENDER	HM	EV	2016.06.08.08
Issued	By	Appd	YYYY.MM.DD

Permit-Seal

Client/Project
GOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

EDMONTON, ALBERTA

Title
GENERAL NOTES, LEGENDS, CODE MATRIX
SCHEDULES & ABBREVIATIONS

Project No. 144202775.215	Scale As indicated
Revision	Drawing No.

Sheet
1 of 7

A001

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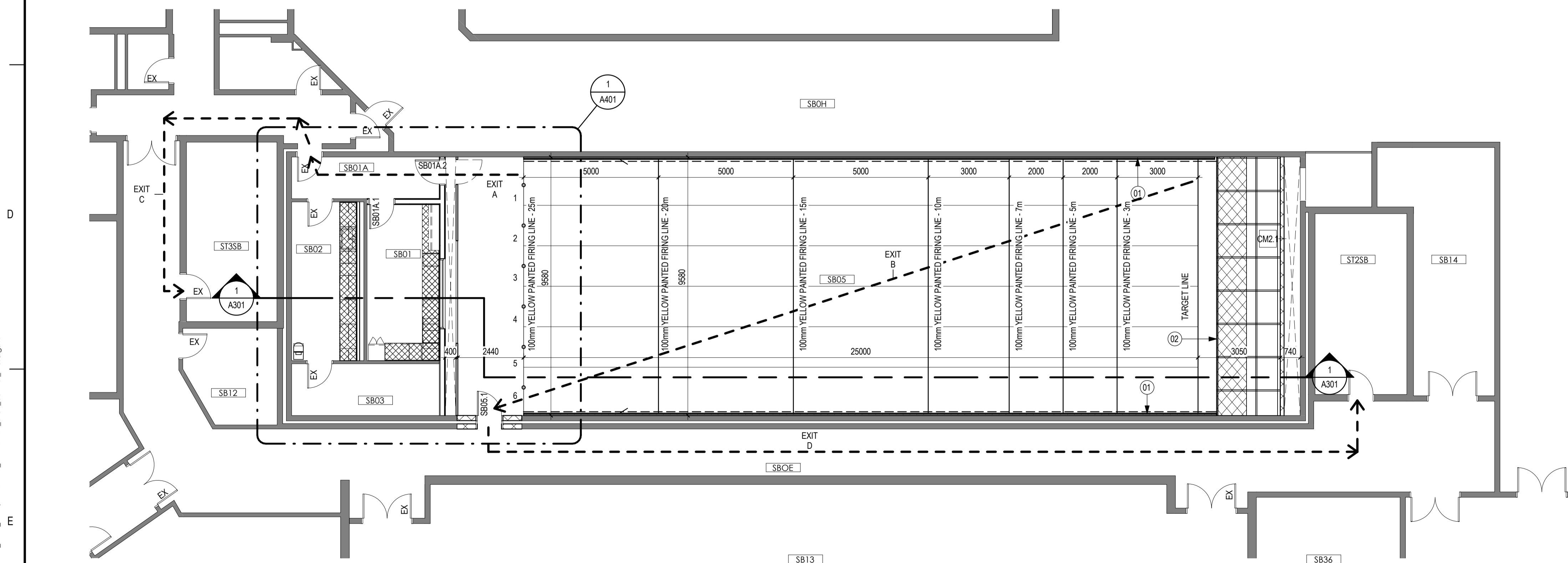
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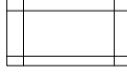
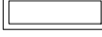











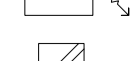

A111

EXIT ACCESS TRAVEL DISTANCE SUMMARY	
EXIT ROUTE	TRAVEL DISTANCE (m)
EXIT A	10
EXIT B	30
EXIT C	10
EXIT D	40



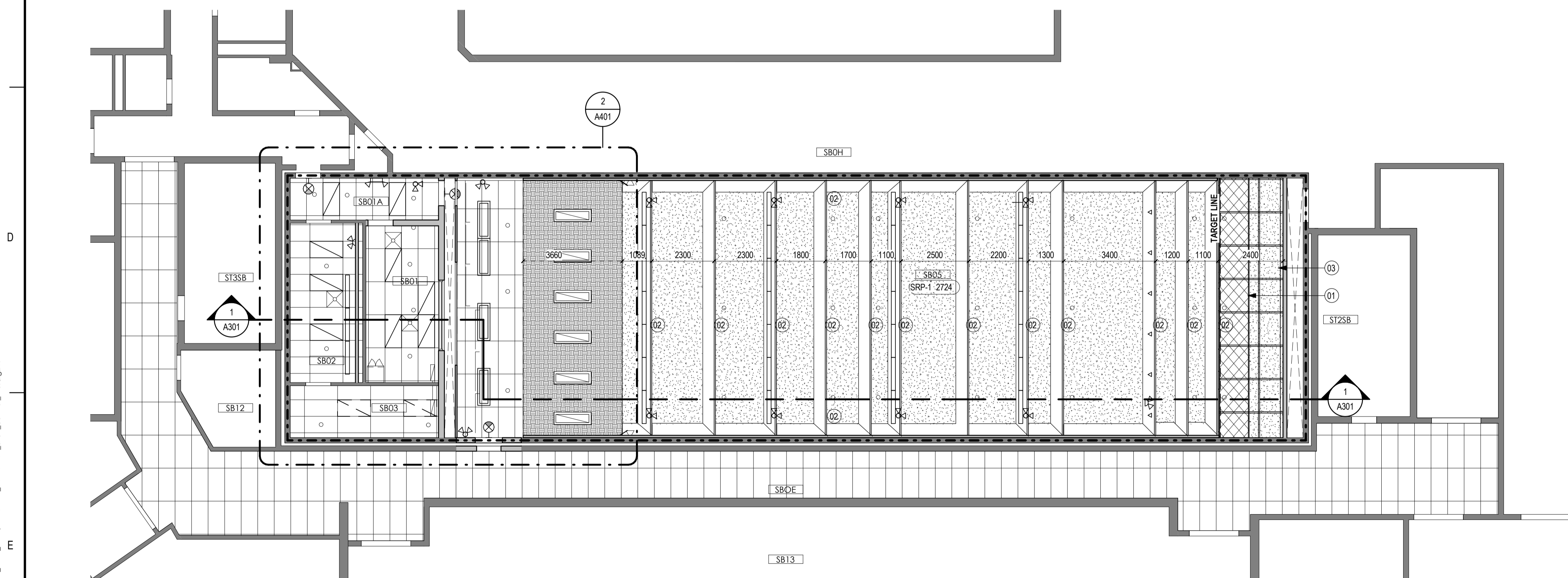
2 SUB-BASEMENT CONSTRUCTION PLAN
A111 1:100

CEILING LEGEND

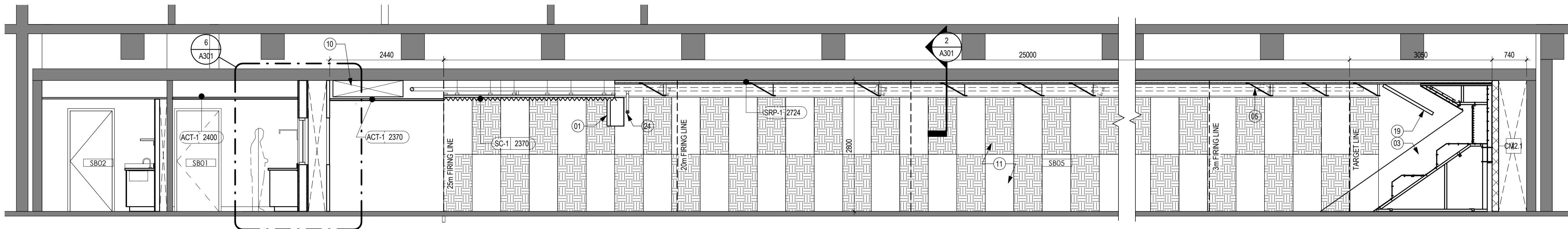
	ACOUSTIC TILE
	SURFACE MOUNTED OR SUSPENDED FLUORESCENT LUMINAIRE
	RECESSED FLUORESCENT LUMINAIRE
	FLUORESCENT STRIP LUMINAIRE
	WALL MOUNTED LINEAR FLUORESCENT LUMINAIRE
	RECESSED LUMINAIRE / POT LIGHT
	SURFACE MOUNTED OR SUSPENDED LUMINAIRE
	STEP OR WALL MOUNTED LUMINAIRE
	LUMINAIRE ON EMERGENCY CIRCUIT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

Sheet
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A151

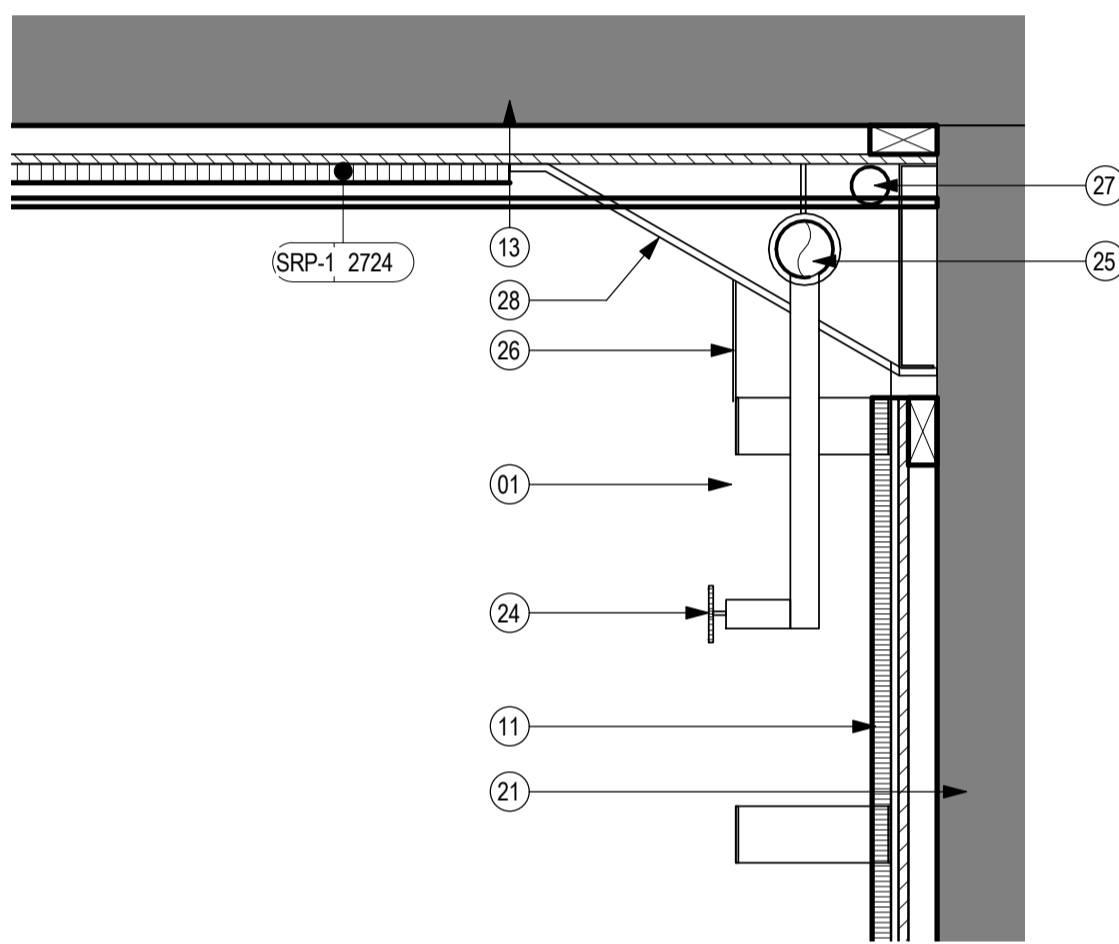


2 SUB-BASEMENT CONSTRUCTION REFLECTED CEILING PLAN



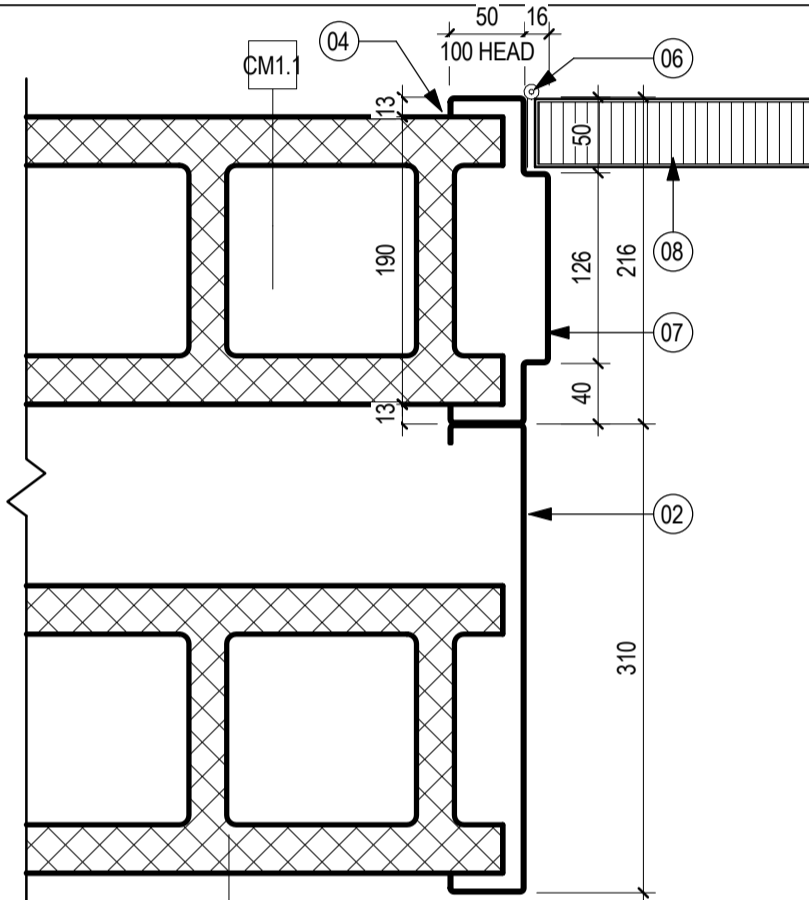
1 BUILDING SECTION

A301 1 : 50



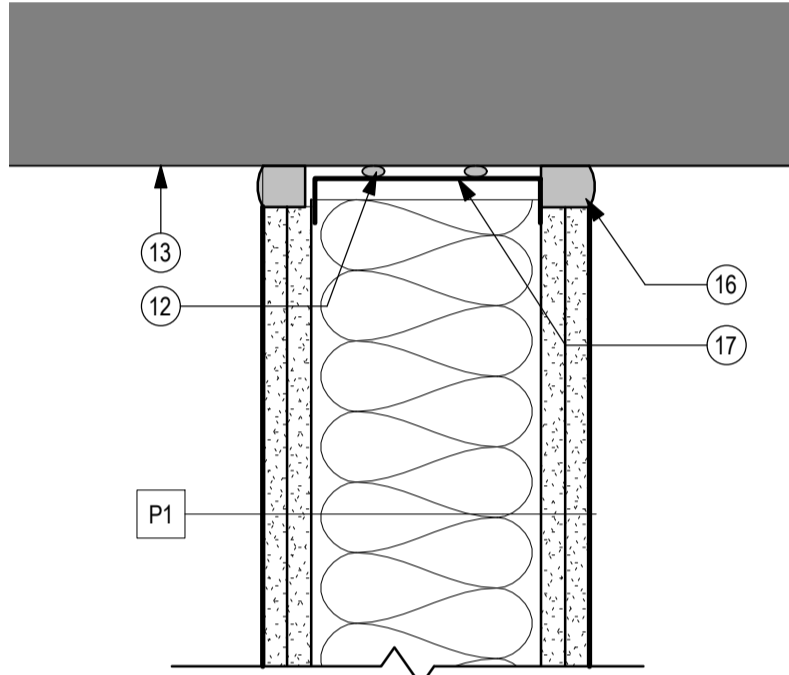
2 SIDE WALL SPRINKLER PROTECTION DETAIL

A301 1 : 10



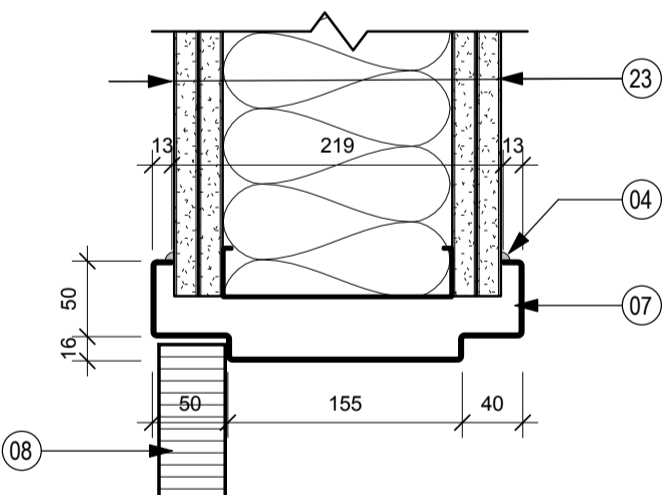
3 WRAP AROUND FRAME DOOR HEAD/JAMB

A301 1 : 5



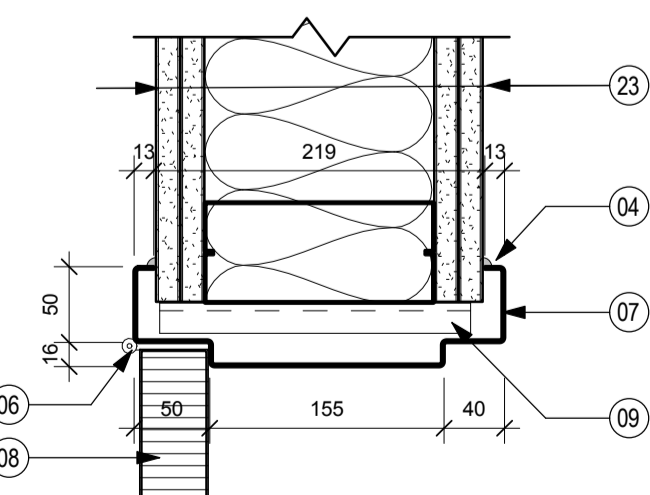
4 ACOUSTIC WALL DETAIL

A301 1 : 5



5 WRAP AROUND FRAME DOOR HEAD DETAIL

A301 1 : 5



8 WRAP AROUND FRAME DOOR JAMB DETAIL

A301 1 : 5

KEYNOTES GENERAL - A301	
KEYNOTE	DESCRIPTION
01	610mm LONG LIGHT ALCOVE DEFLECTORS FLUSH WITH CEILING FOR SIDEWALL SPRINKLER HEAD PROTECTION
02	PRESSED STEEL FRAME CASED OPENING BUTT AGAINST DOOR FRAME TO ENCLOSE AIRSPACE BETWEEN BLOCK WYTHES
03	GRANULATED BULLET TRAP SYSTEM
04	CONTINUOUS SEALANT (BOTH SIDES)
05	RANGE LIGHTING
06	TYPICAL HINGE
07	PRESSED STEEL FRAME
08	TYPICAL ACOUSTIC DOOR
09	TYPICAL STEEL STUD ANCHOR
10	MECHANICAL DUCT
11	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 LAYED FLAT @ 400mm OC TO EXTEND FROM FIRING LANE TO BULLET TRAP SIDEWALLS TO 2440mm IN HEIGHT
12	2x CONTINUOUS BEADS OF ACOUSTICAL SEALANT TOP AND BOTTOM OF WALL
13	EXISTING FLOOR TO REMAIN
14	PERFORATED POLYCARBONATE LAMINAR AIR WALL
15	PERFORATED SHEET METAL LAMINAR AIRWALL
16	CONTINUOUS ACOUSTIC SEALANT
17	SLOTTED DEFLECTION TRACK
18	STC 55 SOUND CONTROL WINDOW
19	1220mm REDIRECTIVE GUARD CW 30 DEGREE SLOPE
20	REMOVE EXISTING CEILING TILE TO PROVIDE ACCESS FOR INSTALLATION OF NEW CONCRETE MASONRY UNITS. STORE TILES ON SITE IN LOCATION AGREED UPON BY OWNER IF TILES OR SUSPENSION SYSTEM IS DAMAGED DURING CONSTRUCTION REPLACE WITH NEW TO MATCH EXISTING
21	EXISTING WALL TO REMAIN
22	ACOUSTIC RATED DOOR AND FRAME
23	PARTITION AS NOTED ON DRAWING
24	SIDE WALL SPRINKLER HEAD
25	SPRINKLER LINE CONCEALED BEHIND LIGHT ALCOVE DEFLECTOR
26	CHAMFER LIGHT ALCOVE TO PROVIDE CONTINUOUS CONCEALMENT OF SPRINKLER LINE
27	ELECTRICAL CONDUIT
28	LIGHT ALCOVE DEFLECTOR CHAMFER AT SIDE WALL DEFLECTORS AND PROVIDE A GAP FOR SPRINKLER LINES, ELECTRICAL CONDUITS

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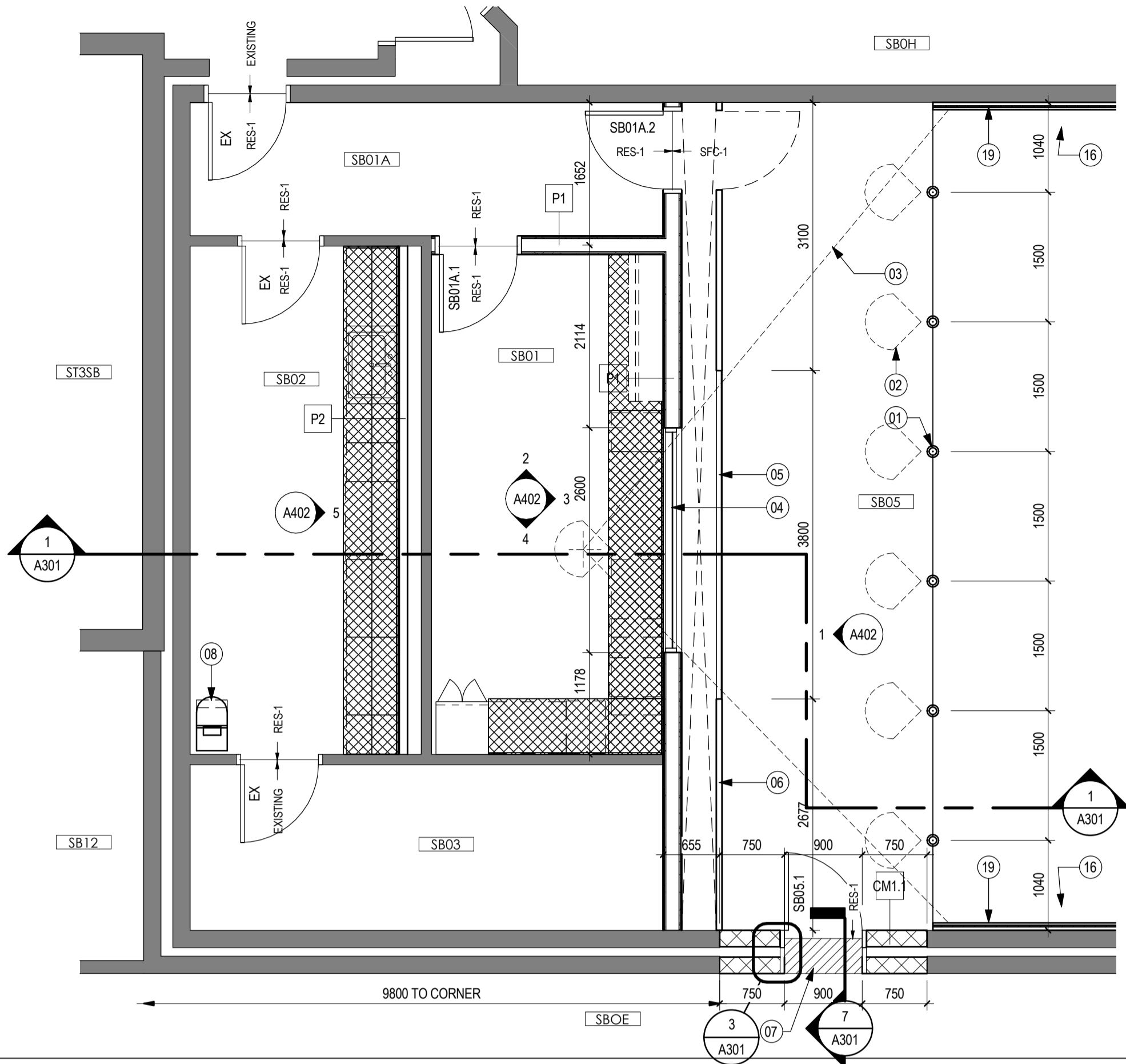
A

B

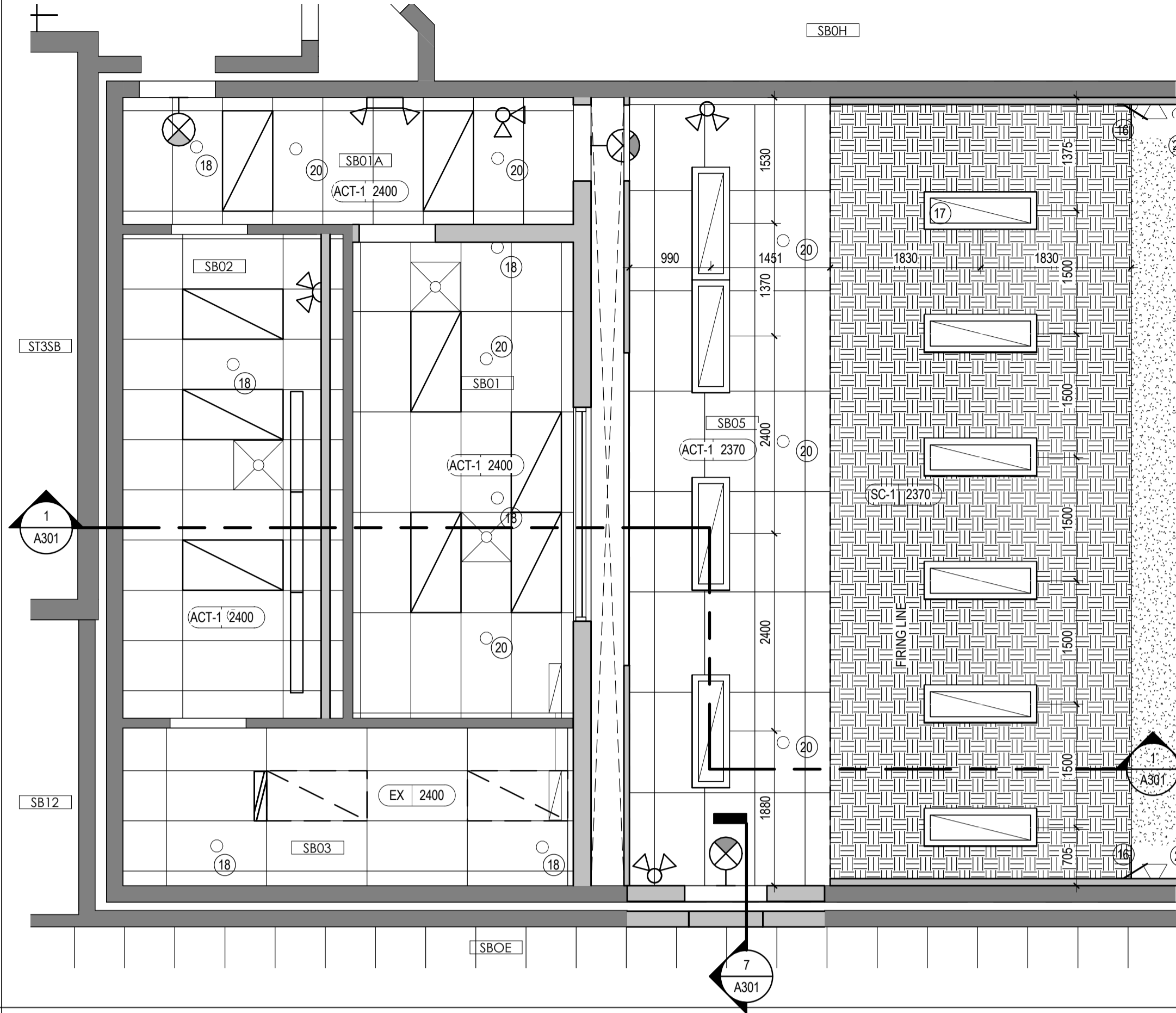
C

D

E



1
A401
ENLARGED FLOOR PLAN
1 : 50



2
A401
ENLARGED REFLECTED CEILING PLAN
1 : 50

RESERVED

PARTITION TYPES

P1 - TYPICAL ACOUSTIC PARTITION
STC 55 PER ABC TABLE 9.10.3.1A

-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

CM1.1 - 190mm CONCRETE MASONRY UNIT PARTITION
60min F.R.R. PER ULC DESIGN NO. U905

-190mm CONCRETE MASONRY UNIT (RUNNING BOND)

CM2.1 - 140mm CONCRETE MASONRY UNIT PARTITION

-140mm CONCRETE MASONRY UNIT (RUNNING BOND)

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 LAMINAR AIR WALL
06	PERFORATED SHEET METAL LAMINAR AIRWALL
07	PATCH AND REPAIR EXISTING FLOOR TO ACCEPT NEW FLOOR FINISH, PROVIDE RES-1 COLOUR TO MATCH EXISTING CORRIDOR, PROVIDE ALL REQUIRED TRANSITIONS BETWEEN MATERIALS
08	GUN CLEANING TRAP
09	TASK SHELF C/W VALENCE LIGHTING
10	EXISTING EXHAUST HOOD TO REMAIN
11	COAT ROD & SHELF
12	BASE TYPICAL
13	AIR COMPRESSOR LOCATED IN CABINET, PROVIDE VENT HOLES IN BOTH DOOR PANELS REFER TO TYPICAL DETAIL
14	TELEVISION NIC
15	COMPUTER STORAGE, PROVIDE VENT HOLES IN DOOR PANEL REFER TO TYPICAL DETAIL
16	EXTENT OF SHOOTING LANE 305mm LONG LIGHT ALCOVE DEFLECTORS FLUSH WITH CEILING FOR SIDEWALL SPRINKLER HEAD PROTECTION (4 TOTAL)
17	SURFACE MOUNTED LIGHT FIXTURE
18	EXISTING SPRINKLER HEAD TO REMAIN
19	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
20	NEW SPRINKLER HEAD
21	SIDE WALL SPRINKLER HEAD
22	GYPSUM BOARD PAINT
23	NEW SINK C/W EYE WASH TRIM

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
SRP-1 -25mmx610mmx610mm SHREDDED RUBBER PLANKS -19mm FIRE RATED TREATED PLYWOOD SHEATHING -38x89mm FIRE RATED TREATED WOOD STRAPPING AT 400mm OC

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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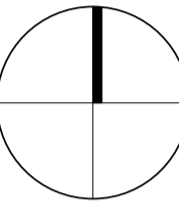
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Legend



Notes

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

Permit-Seal

Client/Project
GOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

EDMONTON, ALBERTA

Title
ENLARGED PLANS

Project No.
144202775.215

Scale
As indicated

Revision

Drawing No.

Sheet
5 of 7

A401

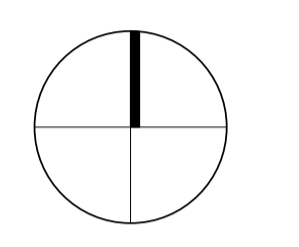
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Notes

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Client/Project

GOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

EDMONTON, ALBERTA

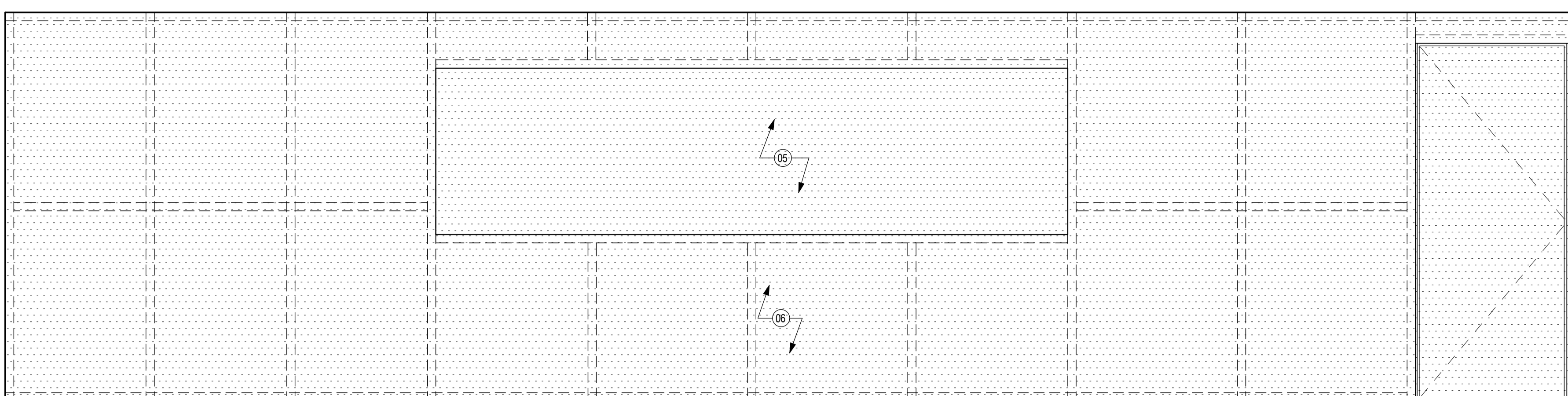
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INTERIOR ELEVATIONS

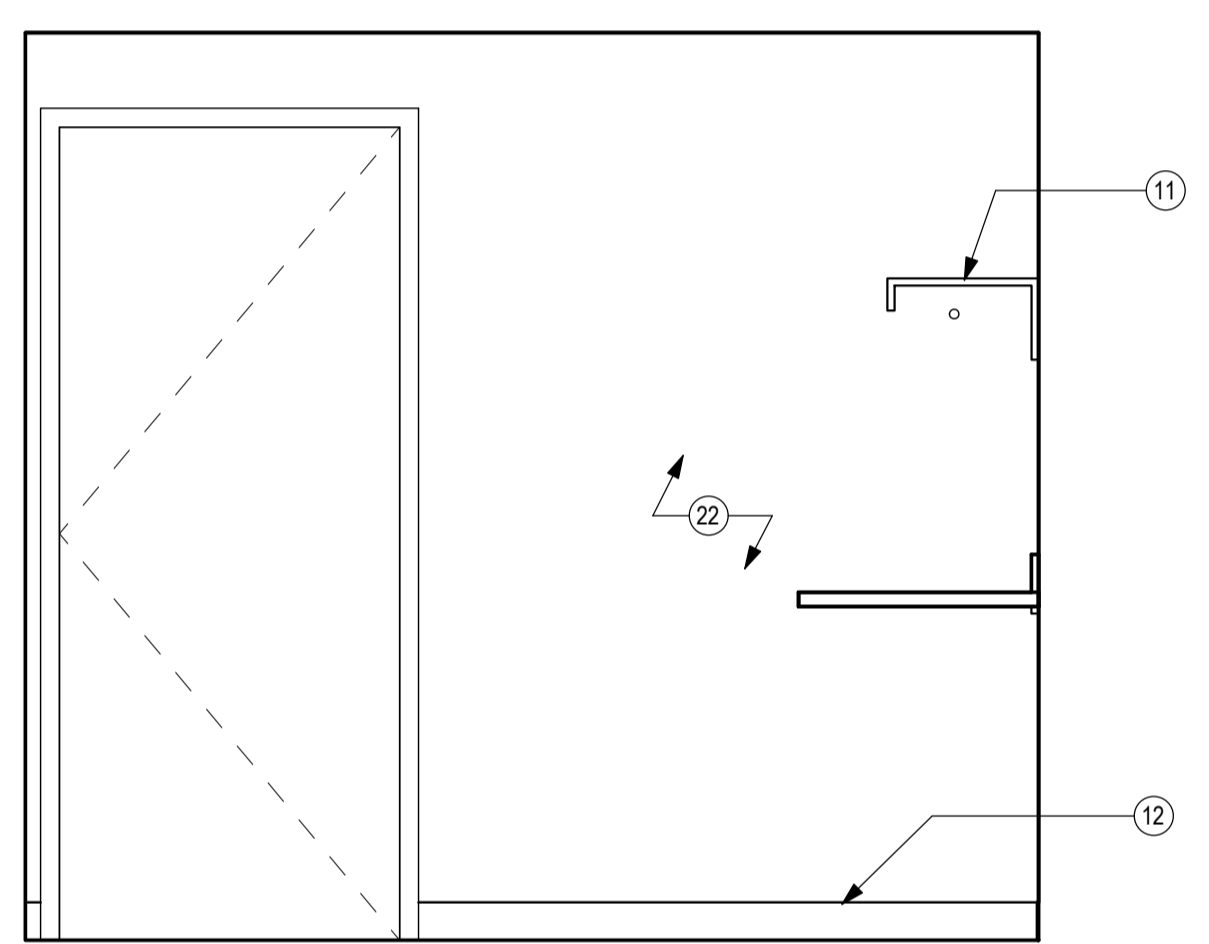
Project No. 144202775.215	Scale 1 : 20
Revision	Drawing No.

Sheet
6 of 7

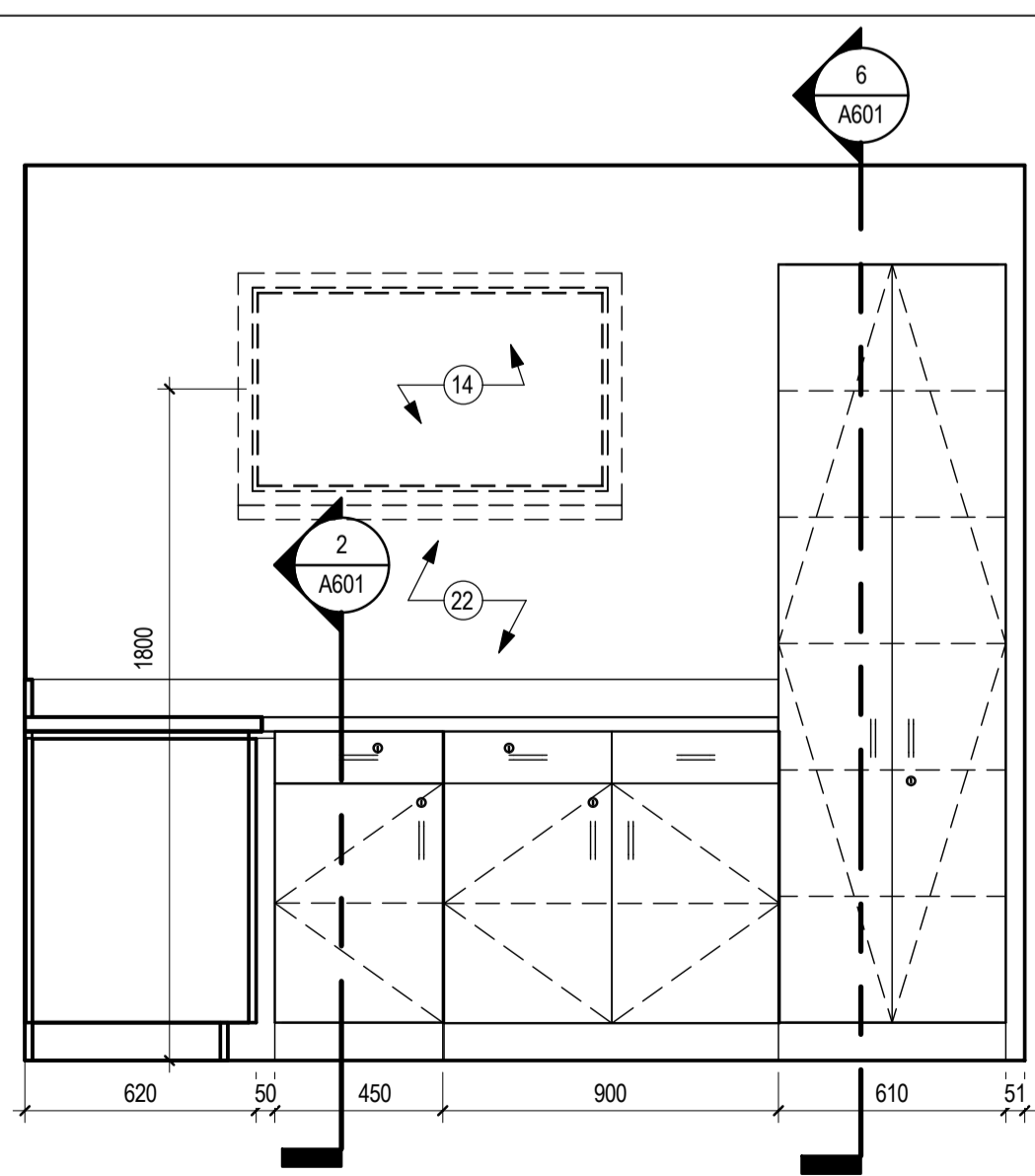
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1 SB005 - WEST ELEVATION
A402 1:20

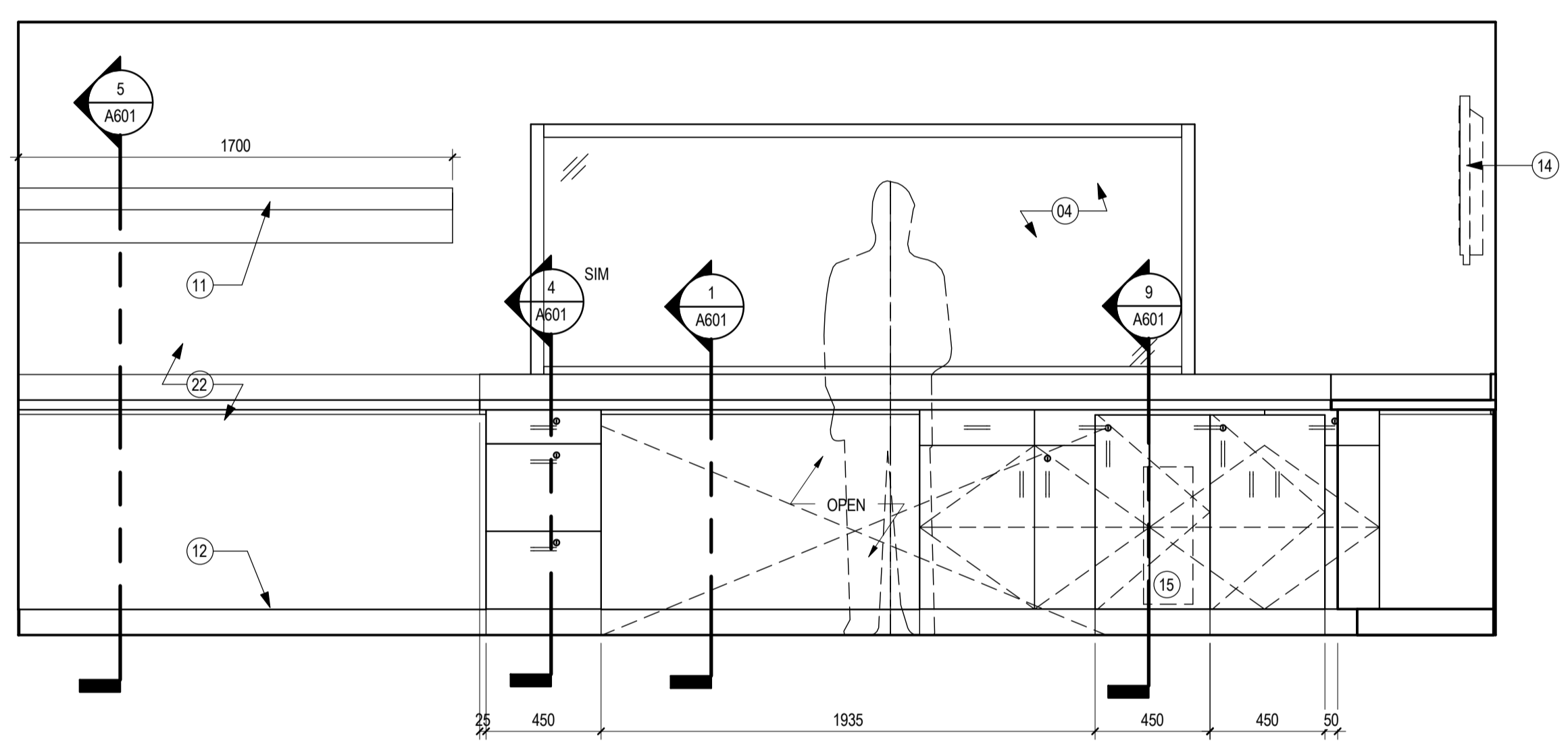


2 ROOM SB01 - NORTH ELEVATION

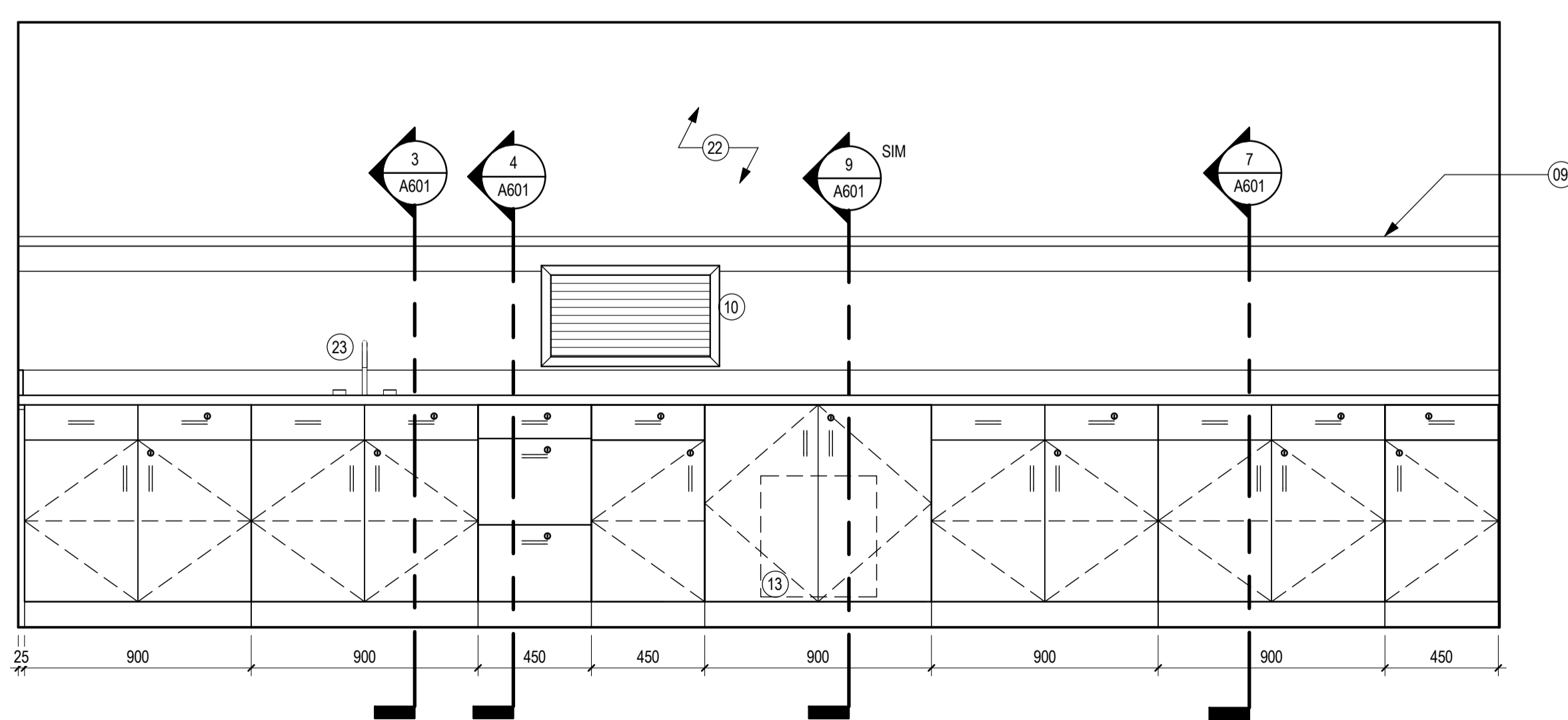


4 ROOM SB01 - SOUTH ELEVATION

3 ROOM SB01 - EAST ELEVATION



5 ROOM SB02 - EAST ELEVATION



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Client/Project

GOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

EDMONTON, ALBERTA

Title

MILLWORK DETAILS

Project No. 144202775.215	Scale 1 : 10
Revision	Drawing No.

A601



Technical drawing of a kitchen cabinet assembly showing side and front elevations with dimensions and material specifications.

Dimensions:

- Overall width: 635
- Overall height: 920
- Top panel height: 38
- Upper cabinet height: 190
- Lower cabinet height: 190
- Drawer height: 387
- Base height: 100
- Drawer front thickness: 75

Material Specifications:

- STS-1 ON 19mm PLYWOOD COUNTER TOP
- BAR PULL - HD-1 (TYP.)
- CABINET FRONTS - PL-1 ON 19mm MULTI-LAYERED PLYWOOD (TYP.)
- CABINET CONSTRUCTION 19mm PARTICLE BOARD W/HEAVY DUTY DRAWER SLIDES, M-1 FINISH
- RCB-1 ON 19mm PLYWOOD (TYP.)



1

2

3

4

5

6

7

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.

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. 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.

9. CONCRETE GROUT TO BE MINIMUM 35 MPa AT 28 DAYS. SUBMIT PRODUCT TO THE ENGINEER FOR APPROVAL. PRE-APPROVED PRODUCT OT BE SIKa 222.

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-G164.

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 SNUG-TIGHTENED HIGH-STRENGTH BOLTS.

11. PROVIDE 10mm 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 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-A371.

2. CONCRETE BLOCK TO CONFORM TO CAN/CSA-A185 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 800mm 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.

CLIMATIC INFORMATION

TO BE READ IN CONJUNCTION WITH DESIGN LOADS DESIGN NOTES

SNOW LOAD (1/50), Ss1.7 kPa

SNOW LOAD (1/50), Sr0.1 kPa

ONE DAY RAIN (1/50)97 mm

HOURLY WIND PRESSURE (1/10)0.35 kPa

HOURLY WIND PRESSURE (1/50)0.45 kPa

SITE INFORMATION

TO BE READ IN CONJUNCTION WITH DESIGN LOADS DESIGN NOTES

IMPORTANCE CATEGORYHIGH

WIND EXPOSURE TYPEOPEN TERRAIN

INTERNAL PRESSURE CATEGORY2

STANDARD STRUCTURAL DRAWING ABBREVIATIONS

A.B. or A.BOLTANCHOR BOLT

A.I.F.ASPHALT IMPREGNATED FIBRE BOARD

ABTABOUT

ABUTABUTMENT

ADDLADDITIONAL

ALUMALUMINIUM

APPROX orAPPROXIMATELY

ARCHARCHITECT

ARNDAROUND

B or BOTBOTTOM

B.U.BUILT UP

BLKBLOCK

BLLBOTTOM LOWER LAYER

BMBEAM

BRGBEARING

BTWNBETWEEN

BULBOTTOM UPPER LAYER

C.B.CATCH BASIN

C.I.P.CAST IN PLACE

C.J.CONSTRUCTION JOINT

C.L. orCENTRE LINE

C/C orCENTRE TO CENTRE

C/WCOMPLETE WITH

COLCOLUMN

CONCCONCRETE

CONNCONNECTION

CONTCONTINUOUS

D or DPDEPTH

DIA or ØDIAMETER

DIAGDIAGONAL

DO or doDITTO

DWGDRAWING

DWLDOWEL

E.E.EACH END

E.F.EACH FACE

E.J.EXPANSION JOINT

E.S.EACH SIDE

E.W.EACH WAY

EL or ELEV ELEVATION

ELECTELECTRICAL

EQEQUAL

EQ, SPCS.EQUAL SPACES

EXISTEXISTING

EXTEXTERIOR

F.S.FAR SIDE

F.T.S.FULL TENSION SPLICE

FDNFOUNDATION

FLFLAT PLATE

FTGFOOTING

GA GAUGE

GALVGALVANIZED

GR BMGRADE BEAM

H1EHOOK ONE END

H2EHOOK TWO ENDS

H or HTHIGH OR HEIGHT

H.D. GALVHOT DIPPED GALVANIZED

H.R.HANDRAIL

HORHORIZONTAL

I.C.IN CENTRE

I.D.INSIDE DIAMETER

I.F.INSIDE FACE

INCLINCLUDING

INSULINSULATION

INTINTERIOR

LG LONG

LOC LONGIT

LONGITLONGITUDINAL

M.H.MANHOLE

M.S.MILD STEEL

MAXMAXIMUM

MECHMECHANICAL

MEZZMEZZANINE

MINMINIMUM

MISCMISCELLANEOUS

N.D. BARSNELSON DEFORMED BARS

N.I.C.NOT IN CONTRACT

N.S.NEAR SIDE OR NELSON STUD

N.T.S. NOT TO SCALE

NO or #NUMBER

O.D. OUTSIDE DIAMETER

O.F. OUTSIDE FACE

OPNGOPENING

OPPOPPPOSITE

OWSJOPEN WEB STEEL JOIST

P.L.PROPERTY LINE

P/C PRECAST

P/T POST TENSIONED

PERIMPERIMETER

PERPPERPENDICULAR

PKG PACKAGE

PLPLATE

PLY PLYWOOD

PROJPROJECT

PTDPAINTED

R or RADRADIUS

R.D. ROOF DRAIN

R/WREINFORCED WITH

REINFINREINFORCING

REMREMAINDER

REQ'DREQUIRED

S.J.SAWCUT JOINT

S.O.G.SLAB ON GRAGE

S.SLSTAINLESS STEEL

SIMSIMILAR

SPMDDSTANDARD PROCTOR MAXIMUM DRY DENSITY

SQSQUARE

SSTSIMPSON STRONG TIE

STIFFSTIFFENER

STIRSTIRRUP

SYMSYMETRICAL

T TOP

T & B TOP & BOTTOM

T.O. TOP OF

T/F EL. TOP OF FOOTING ELEVATION

THKTHICK

TLLTOP LOWER LAYER

TULTOP UPPER LAYER

TYP TYPICAL

UNUNLESS NOTER OTHERWISE

USUNDERSIDE

VERT VERTICAL

W WIDE or WIDTH or WITH

W.P. WORKING POINT

WWWELDED WIRE MESH

CLIMATIC INFORMATION

TO BE READ IN CONJUNCTION WITH DESIGN LOADS DESIGN NOTES

IMPORTANCE CATEGORYHIGH

WIND EXPOSURE TYPEOPEN TERRAIN

INTERNAL PRESSURE CATEGORY2

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STANDARD STRUCTURAL DRAWING ABBREVIATIONS

A.B. or A.BOLTANCHOR BOLT

A.I.F.ASPHALT IMPREGNATED FIBRE BOARD

ABTABOUT

ABUTABUTMENT

ADDLADDITIONAL

ALUMALUMINIUM

APPROX orAPPROXIMATELY

ARCHARCHITECT

ARNDAROUND

B or BOTBOTTOM

B.U.BUILT UP

BLKBLOCK

BLLBOTTOM LOWER LAYER

BMBEAM

BRGBEARING

BTWNBETWEEN

BULBOTTOM UPPER LAYER

C.B.CATCH BASIN

C.I.P.CAST IN PLACE

C.J.CONSTRUCTION JOINT

C.L. orCENTRE LINE

C/C orCENTRE TO CENTRE

C/WCOMPLETE WITH

COLCOLUMN

CONCCONCRETE

CONNCONNECTION

CONTCONTINUOUS

D or DPDEPTH

DIA or ØDIAMETER

DIAGDIAGONAL

DO or doDITTO

DWGDRAWING

DWLDOWEL

E.E.EACH END

E.F.EACH FACE

E.J.EXPANSION JOINT

E.S.EACH SIDE

E.W.EACH WAY

EL or ELEV ELEVATION

ELECTELECTRICAL

EQEQUAL

EQ, SPCS.EQUAL SPACES

EXISTEXISTING

EXTEXTERIOR

F.S.FAR SIDE

F.T.S.FULL TENSION SPLICE

FDNFOUNDATION

FLFLAT PLATE

FTGFOOTING

GA GAUGE

GALVGALVANIZED

GR BMGRADE BEAM

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H2EHOOK TWO ENDS

H or HTHIGH OR HEIGHT

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INTINTERIOR

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LONGITLONGITUDINAL

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M.S.MILD STEEL

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MECHMECHANICAL

MEZZMEZZANINE

MINMINIMUM

MISCMISCELLANEOUS

N.D. BARSNELSON DEFORMED BARS

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N.S.NEAR SIDE OR NELSON STUD

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NO or #NUMBER

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HVAC SYMBOLS

####

RECTANGULAR DUCT

##0

ROUND DUCT

ACOUSTIC DUCT INSULATION

DN

DOUBLE LINE DUCT INCLINE

SQUARE ELBOW TURN (SUPPLY UP/DOWN)

SQUARE ELBOW TURN (RETURN UP/DOWN)

SQUARE ELBOW TURN (EXHAUST UP/DOWN)

SQUARE ELBOW TURN (INTAKE UP/DOWN)

ELBOW, ROUND, SMOOTH RADIUS (UP/DOWN)

TEE, 45 DEG., RECTANGULAR MAIN AND BRANCH

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

TEE, 45 DEG., ROUND MAIN AND BRANCH

CONICAL WYE, 45 DEG., ROUND MAIN AND BRANCH

ELBOW, RECTANGULAR, SMOOTH RADIUS WITH SPLITTER VANES (0.25 R/W DEFAULT)

ELBOW, RECTANGULAR, SMOOTH RADIUS WITHOUT VANES (1.5 R/W DEFAULT)

ELBOW, ROUND, SMOOTH RADIUS (1.5 R/W DEFAULT)

ELBOW, RECTANGULAR, MITERED WITH TURNING VANES

ELBOWS, 90 DEG., RECTANGULAR TEE

ELBOW, 90 DEG., RECTANGULAR WYE

45 DEG. WYE, CONICAL MAIN AND BRANCH, ROUND

TRANSITION, RECTANGULAR, PYRAMIDAL (30° CONTRACTUAL ANGLE DEFAULT)

TRANSITION, RECTANGULAR, SIDE (30° CONTRACTUAL ANGLE DEFAULT)

DN

SINGLE-LINE DUCT INCLINE

MATL1 MATL2

SINGLE LINE DUCT CHANGE IN CONSTRUCTION

SINGLE-LINE DUCT BRANCH

SINGLE-LINE DUCT TAKEOFF

DUCT CAP

DUCT BREAK

SINGLE-LINE SUPPLY OR RETURN DUCT

SINGLE-LINE EXHAUST DUCT

WALL MOUNTED GRILLE/REGISTER LINEAR DIFFUSERCEILING DIFFUSER 600x600/300x300AIR FLOW ARROWS

QUANTITY
TYPE
SIZE (mm)
VOLUME (L/s)

AIR OUTLET TAG (REFER TO SCHEDULE)DOOR GRILLE TAG (REFER TO SCHEDULE)FIRE DAMPER

T

THERMOSTAT

PS

PRESSURE SENSOR

S

GENERIC SENSOR

MECHANICAL DRAWING LIST		
DRAWING No.	DRAWING NAME	SCALE
M001	MECHANICAL LEGEND, SCHEDULES & DRAWING LIST	N.T.S.
M101	SUB-BASEMENT - MECHANICAL DEMOLITION & RENOVATION PLANS	1:100
M102	SUB-BASEMENT - PLUMBING & FIRE PROTECTION PLAN & SECTION	AS NOTED
M103	PARTIAL MECHANICAL ROOF PLAN	1:200
M201	MECHANICAL SECTIONS	1:50
M301	MECHANICAL DETAILS	N.T.S.
M302	MECHANICAL DETAILS	N.T.S.

PIPING IDENTIFICATION AND SYMBOLS

—•—

DOMESTIC COLD WATER

—••—

DOMESTIC HOT WATER

—•••—

DOMESTIC HOT WATER RECIRC.

—T—

TEMPERED WATER

—V—

VENT

—SAN—

SANITARY DRAIN (ABOVE GRADE OR FLOOR)

—SAN—

SANITARY DRAIN (BELOW GRADE OR FLOOR)

FD

FLOOR DRAIN

PIPE CAP

PIPE BREAK

FLOW ARROW

PIPING ELBOW DOWN

PIPING ELBOW UP

PIPING TEE UP

PIPING TEE DOWN

PIPING TEE

SANITARY/STORM PIPING DOWN

SANITARY/STORM PIPING UP

SANITARY/STORM TEE UP

SANITARY/STORM TEE DOWN

SANITARY/STORM BRANCH

CO

STANDARD CLEAN-OUT IN LINE END OF RUN

CO

STANDARD CLEAN-OUT THROUGH FLOOR END OF RUN

CO

STANDARD CLEAN-OUT THROUGH FLOOR IN LINE

% SLOPE

PIPING SLOPE

'P' TRAP

GATE VALVE

GLOBE VALVE

SWING GATE CHECK VALVE

BALL VALVE

BALANCING VALVE

PLUG VALVE

BUTTERFLY VALVE

PRESSURE/TEMPERATURE SENSOR PORT

Y STRAINER

PRESSURE GAUGE AND COCK

SHOCK ABSORBER WITH HAMMER

UNION CONNECTION

MANUAL AIR VENT

AUTOMATIC AIR VENT

THERMOMETER

TYPE
QUANTITY

PLUMBING FIXTURE TAG (REFER TO SCHEDULE)

FIRE PROTECTION

—F—

FIRE LINE

—SP—

SPRINKLER LINE

FIRE EXTINGUISHER

UPRIGHT SPRINKLER

PENDANT SPRINKLER

SIDEWALL SPRINKLER

R

SPRINKLER HEAD - RELOCATED

E

SPRINKLER HEAD - EXISTING

D

SPRINKLER HEAD - DEMOLISHED

ABBREVIATIONS

EQUIPMENT

EF-*

SF-*

PLUMBING FIXTURES

HD-*

EW-*

COMMON

A.F.F.

C/W

ELEV.

INV.

SAN

ST

ABOVE FINISHED FLOOR

COMPLETE WITH ELEVATION

INVERT

SANITARY

STORM

PLUMBING FIXTURE SCHEDULE									
FIXTURE TAG	TYPE	FIXTURE CONNECTIONS (mm)					DESCRIPTION		
		DCW	DHW	DTHW	DRAIN	VENT			
EMERGENCY EYEWASH									
EW-1	EMERGENCY EYEWASH	15	15	15	-	-	BRADLEY MODEL S19-270C SWING-ACTIVATED EYE/FACE WASH, 20" SIDE-SWING ACTIVATION, ANTI-ROTATIONAL DECK MOUNT, CHROME PLATED BRASS SPRAYHEAD ASSEMBLY WITH TWIN SOFT FLOW EYEWASH HEADS AND PROTECTIVE SPRAY HEAD COVERS, INTEGRAL FLOW CONTROL, CERAMIC 15mm (1/2") STAY OPEN VALVE, CHROME PLATED BRASS PIPE AND FITTINGS, MEETS REQUIREMENTS OF ANSI Z358.1, 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.		
DRAINS									
HD-1	HUB DRAIN	-	-	-	100	-	WATTS FD-100-C-DD EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, REVERSIBLE MEMBRANE CLAMP WITH PRIMARY AND SECONDARY WEEPHOLES, ADJUSTABLE NICKEL BRONZE HUB FUNNEL AND NO HUB (M) OUTLET.		

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	SB02	PORTER CABLE	C2002	23	PANCAKE	1.23	1034	0.60	120/1/60	C/W QUICK COUPLING, FLEXIBLE HOSE & BLOW GUN

FAN SCHEDULE												
TAG No.	MANUFACTURER	MODEL No.	SERVICE	TYPE	MOUNTING ARRANGEMENT	AIR FLOW (L/s)	EXT. STATIC PRESS. (Pa)	ELECTRICAL				REMARKS
								MOTOR (W)	MOTOR RPM	V/Ph/Hz	VFD (Y/N)	
AH06-EF	GREENHECK	36-CSW-AF-21-104I-400	RANGE	SINGLE WIDTH CENTRIFUGAL	BASE MOUNTED	11,328	1,555	28.8	1366	575/3/60	Y	61
FAN TO BE SUITABLE FOR EXTERIOR INSTALLATION; DISCHARGE POSITION - BAU; OPERATION INTERLOCKED WITH AH06												



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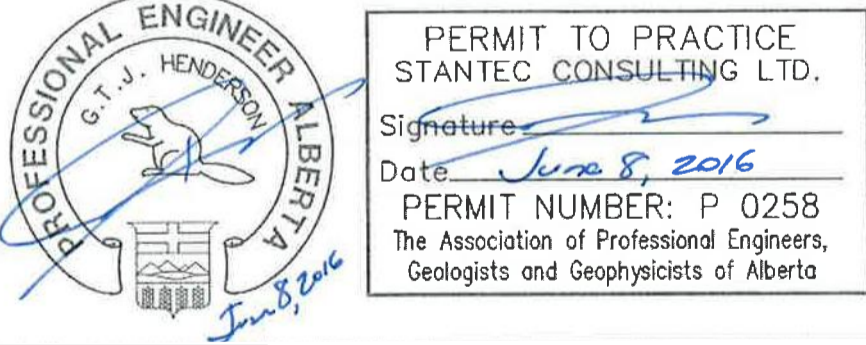
Legend

Notes

Revision

ISSUED FOR TENDER	JPH	GH	2016.06.08
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Client/Project

GOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

EDMONTON, ALBERTA

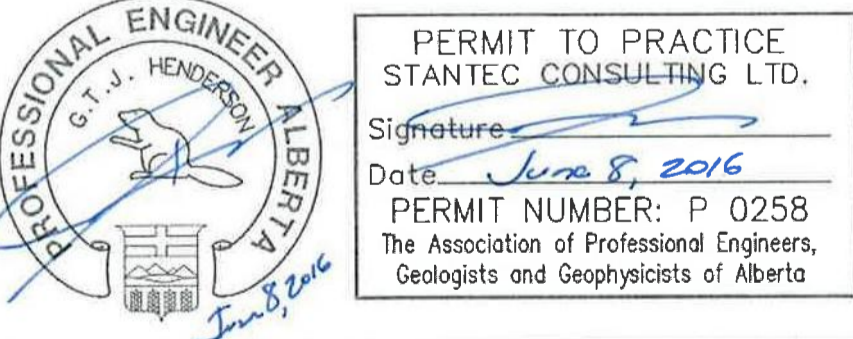
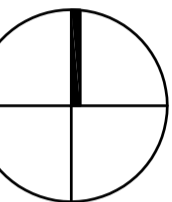
Title

MECHANICAL LEGEND, SCHEDULES & DRAWING LIST

Project No. 144202775.215	Scale N.T.S.
Revision	Drawing No.

Sheet
1 of 7

M001



GENERAL NOTES

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

PLAN 1 - KEY NOTES

- EXISTING EXHAUST AIR DUCTS TO BE REMOVED BACK TO LOCATION SHOWN. REMOVE ALL ASSOCIATED ACCESSORIES INCLUDING HANGERS.
- EXISTING OPENING THRU WALL TO BE PATCHED AND MADE GOOD.
- EXISTING EXHAUST AIR FAN AND SILENCER TO BE REMOVED. REMOVE EXISTING FAN SUPPORTS.
- EXISTING SINK AND FAUCET TO BE REMOVED AND SAVED FOR REINSTALLATION. EXISTING DOMESTIC HOT WATER, DOMESTIC COLD WATER, SANITARY AND SANITARY VENT TO REMAIN FOR CONNECTION TO NEW SINK. REFER TO PLAN 1 ON DRAWING M102.
- EXISTING SUPPLY AIR DIFFUSER TO BE RELOCATED TO SUIT REVISED CEILING PLAN. REFER TO PLAN 2 ON THIS DRAWING FOR RELOCATION.
- REMOVE EXISTING SUPPLY AIR DUCTWORK BACK TO POINT SHOWN. DUCTWORK UPSTREAM OF THIS POINT TO REMAIN.
- EXISTING RETURN AIR GRILLES AND DUCTS TO BE RELOCATED. REFER TO PLAN 2 ON THIS DRAWING.

PLAN 2 - KEY NOTES

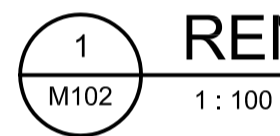
- RELOCATE EXISTING DIFFUSER TO LOCATION SHOWN. REVISE DUCTWORK AS NECESSARY TO SUIT NEW LOCATION.
- RELOCATE EXISTING TRANSFER AIR GRILLES AND 150x150 DUCTWORK TO SUIT NEW CEILING GRID. REVISE EXISTING DUCTWORK AS NECESSARY TO SUIT NEW LOCATION.
- RELOCATE EXISTING RANGE VENTILATION SYSTEM CONTROL SWITCH TO THIS LOCATION.
- NEW DIFFERENTIAL PRESSURE SENSOR CONNECTED TO EXISTING BAS.
- CONNECT NEW 1500x350 SUPPLY AIR TO EXISTING 1500x350 SUPPLY AIR AT THIS POINT.
- 1200x300 SUPPLY AIR TO TERMINATE IN TOP OF PLENUM AIR WALL C/W ELBOW WITH TURNING VANES. BALANCE TO 1,699 L/s. TYPICAL OF 3.
- 500W x 1500H EXHAUST AIR OPENING C/W BALANCING DAMPER. BALANCE TO 2,266 L/s. TYPICAL OF 5.
- 1200W x 1800H EXHAUST AIR OPENING C/W TYPE B FIRE DAMPER.
- PROVIDE NEW SHEET METAL PLENUM C/W 900W x 1500H ACCESS DOOR. PLENUM TO BE FROM FINISHED FLOOR TO TOP PANEL TIGHT TO UNDERSIDE OF STRUCTURE. THE PLENUM IS TO BE SEALED AIR TIGHT.
- PROVIDE NEW BELLMOUTH FITTING ON EXISTING 11500 EXHAUST AIR DUCT.
- PROVIDE NEW 1000x1000 EXHAUST AIR DUCT FROM EXISTING FILTER HOUSING TO EXISTING 1000x1000 EXHAUST AIR RISER.
- ADJUST LOCATION OF EXISTING EXHAUST HOOD TO SUIT NEW MILLWORK. REVISE DUCTWORK AS NECESSARY TO SUIT.

1 SUB-BASEMENT - MECHANICAL DEMOLITION PLAN

1 : 100

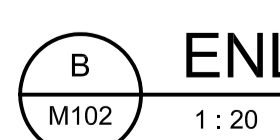
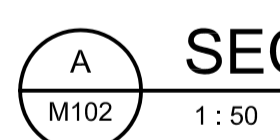
2 SUB-BASEMENT - MECHANICAL RENOVATION PLAN

1 : 100



1. ALL AREAS SHALL BE PROTECTED WITH AN AUTOMATIC SPRINKLER SYSTEM AS PER NFPA 13 REQUIREMENTS. OCCUPANCY SHALL BE LIGHT HAZARD EXCEPT AS INDICATED ON THE DRAWINGS.
2. FIRE EXTINGUISHERS SHALL BE PROVIDED AND INSTALLED AS PER NFPA 10 REQUIREMENTS.
3. EXISTING SPRINKLERS TO BE ADJUSTED TO SUIT NEW CEILING GRID WHERE INDICATED.
4. AVOID RUNNING SPRINKLER BRANCH PIPING BETWEEN BAFFLES WHERE LIGHTING IS LOCATED.
5. FINAL SPRINKLER LAYOUT TO BE COMPLETED BY SPRINKLER CONTRACTOR.
6. AIR COMPRESSOR SERVING PREACTION SYSTEM TO BE 120V/1Ph/60Hz.
7. ALL NEW DUCTWORK AND PIPING TO BE COORDINATED WITH EXISTING SERVICES AND STRUCTURE. INSTALL ALL NEW SERVICE AS TIGHT AS POSSIBLE TO UNDERSIDE OF STRUCTURE.
8. VENT ALL FIXTURES IN ACCORDANCE WITH THE NATIONAL PLUMBING CODE.
9. MECHANICAL CONTRACTOR IS TO CONFIRM ALL EXISTING SYSTEMS AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO BEGINNING WORK.

- 1 EXISTING FIRE EXTINGUISHER AND SEMI-RECESSED CABINET TO REMAIN.
- 2 EMERGENCY MIXING VALVE SERVING EMERGENCY EYEWASH TO BE LOCATED BELOW MILLWORK IN SURFACE MOUNTED COUNTER.
- 3 REINSTALL EXISTING SINK AND FAUCET IN MILLWORK, RECONNECT TO EXISTING PLUMBING SERVICE.
- 4 ROOM S805 TO BE PROTECTED BY A NEW DOUBLE INTERLOCKED PREACTION SYSTEM, OCCUPANCY TO BE LIGHT HAZARD.
- 5 NEW SPRINKLER DOUBLE INTERLOCKED PREACTION SYSTEM TO SERVE ROOM S805, EXACT LOCATION OF ASSEMBLY TO BE DETERMINED ON SITE BY SPRINKLER CONTRACTOR.
- 6 PROVIDE NEW HUB DRAIN TO SERVE PRE-NEW ACTION SYSTEM, CONNECT NEW SANITARY LINE FROM DRAIN TO EXISTING SANITARY MAIN.
- 7 NEW SIDEWALL SPRINKLER HEAD TO BE LOCATED BELOW ARMOUR PLATE PANELS. NO SPRINKLERS ARE TO PENETRATE THRU PANELS.
- 8 NEW SWING ACTIVATED EYEWASH TO BE INSTALLED ON LEFT SIDE OF SINK.
- 9 NEW AIR COMPRESSOR AC-01 TO BE LOCATED IN MILLWORK, COMPRESSED AIR LINE TO RUN ALONG BACK OF COUNTER TO CLEANING STATION.



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Issued	By	Appd	YYYY-MM-DD

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Client/Project

GOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

EDMONTON, ALBERTA

Title

SUB-BASEMENT - PLUMBING & FIRE
PROTECTION PLAN & SECTION

Project No.

Scale
AS NOTED

Revision

Drawing No.

Sheet

3 of 7

M102

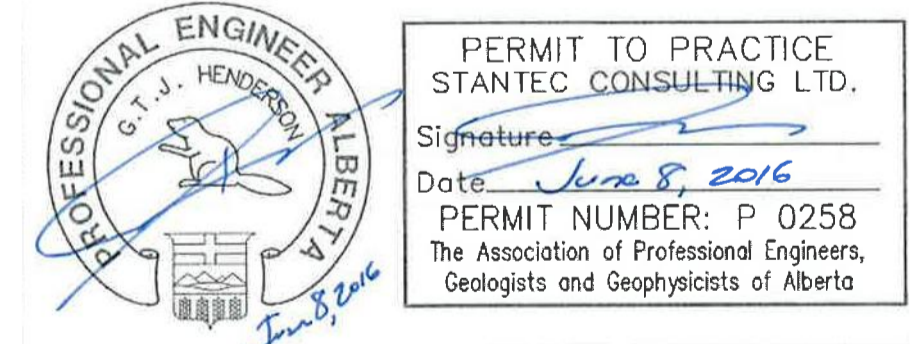
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EXISTING BUILDING RENOVATION

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Title

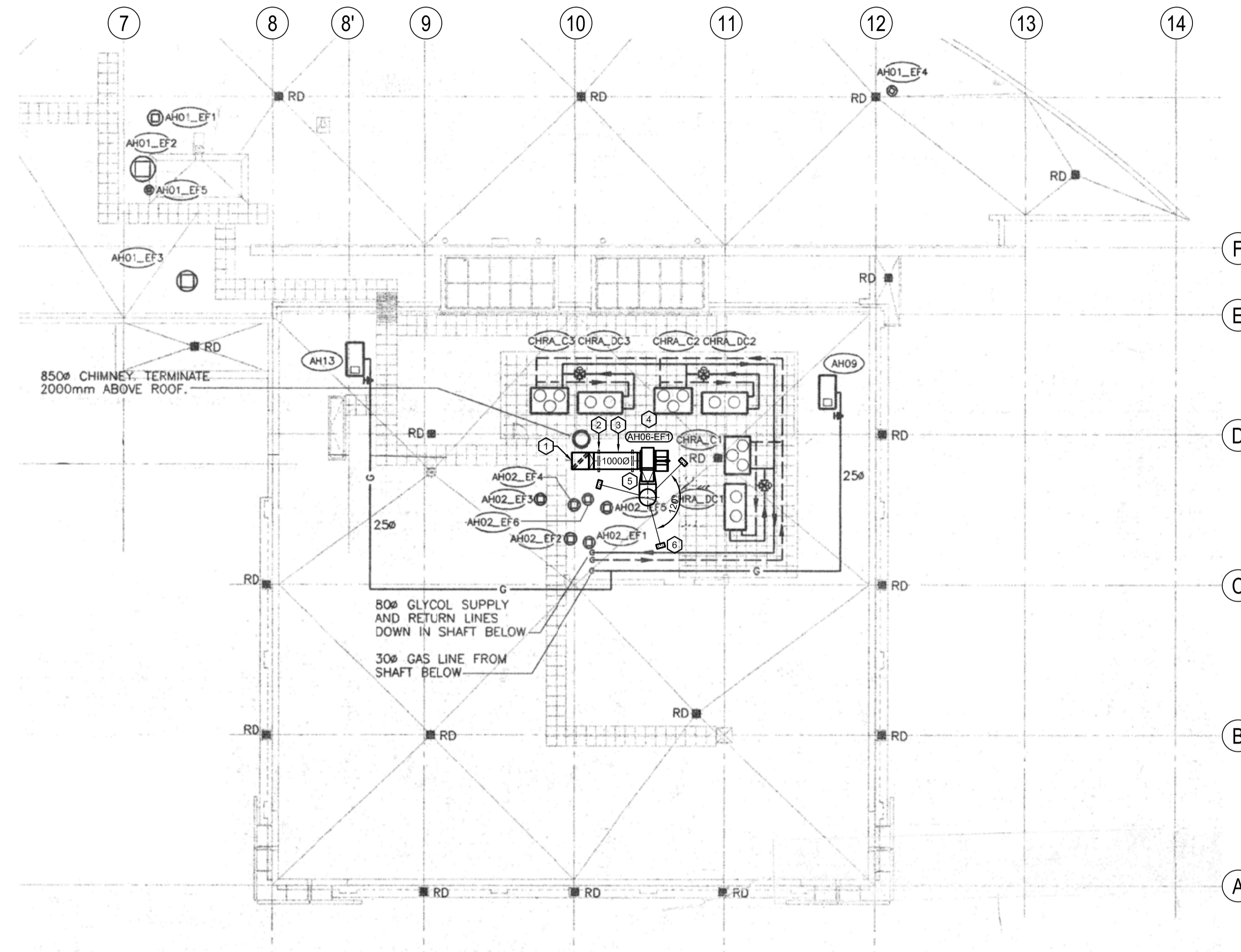
PARTIAL MECHANICAL ROOF PLAN

Project No.
144202775.215

Revision _____ Drawing No. _____

Sheet
4 of 7

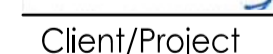
M103



1 PARTIAL MECHANICAL ROOF PLAN
M103 1 : 200

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EDMONTON, ALBERTA

MECHANICAL SECTIONS & PARTIAL PLAN

Project No.	Scale
144202775.215	AS NOTED

Revision _____ Drawing No. _____


M201



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Revision	By	Appd	YYYY.MM.DD
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PROFESSIONAL ENGINEER ALBERTA
G. T. J. HENDERSON
Juni 8, 2016

PERMIT TO PRACTICE
STANTEC CONSULTING LTD.

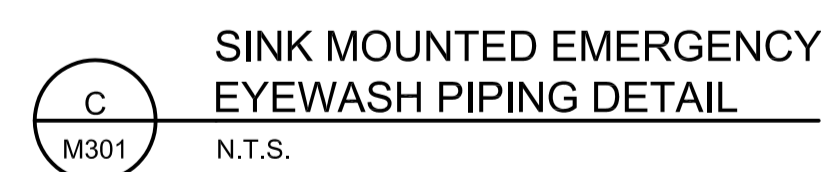
Signature: [Signature]

Date: June 8, 2016

PERMIT NUMBER: P 0258
The Association of Professional Engineers,
Geologists and Geophysicists of Alberta

Project No. 144202775.215	Scale N.T.S.
Revision	Drawing No.

M301





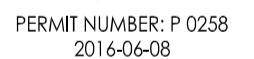
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DM	TJS	2016.06.08
By	Appd	YYYY.MM.DD

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	SURFACE MOUNTED OR SUSPENDED FLUORESCENT LUMINAIRE, 1'x4'
	SURFACE MOUNTED OR SUSPENDED FLUORESCENT LUMINAIRE, 2'x4'
	SURFACE MOUNTED OR SUSPENDED FLUORESCENT LUMINAIRE, 2'x2'
	RECESSED FLUORESCENT LUMINAIRE, 1'x4'
	RECESSED FLUORESCENT LUMINAIRE, 2'x4'
	RECESSED FLUORESCENT LUMINAIRE, 2'x2'
	FLUORESCENT STRIP LUMINAIRE, 4'
	FLUORESCENT STRIP LUMINAIRE, 3'
	FLUORESCENT STRIP LUMINAIRE, 2'
	WALL MOUNTED LINEAR FLUORESCENT LUMINAIRE, 4'
	WALL MOUNTED LINEAR FLUORESCENT LUMINAIRE, 3'
	RECESSED LUMINAIRE / POT LIGHT, 6" DIAMETER OR LARGER
	RECESSED LUMINAIRE / POT LIGHT, LESS THAN 6" DIAMETER
	SURFACE MOUNTED OR SUSPENDED LUMINAIRE
	STEP OR WALL MOUNTED LUMINAIRE
	LUMINAIRE ON EMERGENCY CIRCUIT (INDICATED BY HALF SHADING)
	CEILING MOUNTED EXIT SIGN (TEXT ON SHADED SIDES, ARROWS AS INDICATED)
	WALL MOUNTED EXIT SIGN (TEXT ON SHADED SIDES, ARROWS AS INDICATED)
	TRACK LIGHT (# OF HEADS AS SHOWN, LENGTH AS INDICATED)
	LINE VOLTAGE SWITCH (120V TO 347V)
	2-GANG LINE VOLTAGE SWITCH
	LINE VOLTAGE DIMMER SWITCH
	LINE VOLTAGE TWO POLE SWITCH
	LINE VOLTAGE THREE WAY SWITCH
	LOW VOLTAGE SWITCH
	EMERG. LTG. BATTERY PACK (# OF LAMPS AS SHOWN)
	CEILING MOUNTED EMERG. LTG. REMOTE HEAD (# OF LAMPS AS SHOWN)
	WALL MOUNTED EMERG. LTG. REMOTE HEAD (# OF LAMPS AS SHOWN)
	COMBINATION EXIT SIGN/EMERG. LTG. BATTERY PACK

	DUPLEX 5-15R RECEPTACLE
	DUPLEX 5-15R RECEPTACLE C/W INTEGRAL GFCI PROTECTION
	DUPLEX 5-20R RECEPTACLE, T-SLOT
	SPLIT CIRCUIT DUPLEX 5-15R RECEPTACLE
	TWO DUPLEX 5-15R RECEPTACLES
	SPECIAL RECEPTACLE (TYPE AS INDICATED)
	CEILING MOUNTED DUPLEX 5-15R RECEPTACLE
	TWO CEILING MOUNTED DUPLEX 5-15R RECEPTACLES
	CEILING MOUNTED JUNCTION BOX
	WALL MOUNTED JUNCTION BOX
	FLOOR MOUNTED JUNCTION BOX
	POWER PANELBOARD
	PANEL (TYPE AS INDICATED – SECURITY, LIGHTING RELAY, ETC.)
	SURFACE RACEWAY (TYPE AS INDICATED)
	PUSHBUTTON (TYPE AND WIRING AS INDICATED)
	GROUND BUS BAR
	ROOM REFERENCE GROUND BUS
	MOTOR
	MOTOR c/w DISCONNECT SWITCH
	COMBINATION DISCONNECT AND MAGNETIC MOTOR STARTER
	DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	MAGNETIC MOTOR STARTER
	THERMOSTAT
	MANUAL MOTOR STARTER c/w PILOT LIGHT
	CONDUIT STUB
	CONDUIT UP
	CONDUIT DOWN

	NOTE REFERENCE
	EQUIPMENT REFERENCE
	REVISION NUMBER
	WIRING HOME RUN

	FIRE ALARM MANUAL STATION
	FIRE ALARM BELL
	FIRE ALARM PIEZO (MINI) SOUNDER
	FIRE ALARM ELECTRONIC HORN/SOUNDER/CHIME
	FIRE ALARM ELECTRONIC HORN/SOUNDER/CHIME c/w STROBE
	FIRE ALARM HORN SPEAKER
	FIRE ALARM CONE SPEAKER
	FIRE ALARM CONE SPEAKER c/w STROBE
	FIRE ALARM BELL c/w STROBE
	CEILING MOUNTED REMOTE EVACUATION STROBE
	WALL MOUNTED REMOTE EVACUATION STROBE
	FIRE ALARM HEAT DETECTOR (RATE OF RISE UNLESS OTHERWISE INDICATED)
	FIRE ALARM SMOKE DETECTOR
	FIRE ALARM SMOKE DETECTOR, DUCT MOUNTED
	SMOKE ALARM
	FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM CONTROL PANEL
	FIRE ALARM RELAY
	FIRE ALARM END OF LINE RESISTOR
	FIRE ALARM FAULT ISOLATION MODULE
	FIRE ALARM CONTROL MODULE
	FIRE ALARM MONITOR MODULE

EX	EXISTING DEVICE TO REMAIN
RE	REMOVE EXISTING DEVICE
RP	REPLACE EXISTING DEVICE WITH NEW DEVICE
RL	RELOCATE EXISTING DEVICE
ER	EXISTING DEVICE IN RELOCATED POSITION
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BMS	BUILDING MANAGEMENT SYSTEM
GF	GROUND FAULT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HK	HOUSEKEEPING
OC	ON CENTER
JB	JUNCTION BOX
MCC	MOTOR CONTROL CENTER
MW	MICROWAVE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
SPD	SURGE PROTECTIVE DEVICE
TR	TAMPER RESISTANT
TV	TELEVISION
TYP	TYPICAL
WP	WEATHERPROOF
#D/#V	NUMBER DATA AND VOICE CABLES
*	INDICATES DEVICE MOUNTED ABOVE MILLWORK COUNTERTOP COORDINATE EXACT MOUNTING HEIGHT WITH ARCH. DETAIL
*	INDICATES DEVICE MOUNTED BELOW MILLWORK COUNTERTOP COORDINATE EXACT MOUNTING HEIGHT WITH ARCH. DETAIL
>	INDICATES DEVICE MOUNTED IN FURNITURE SYSTEM
▷	INDICATES DEVICE MOUNTED ABOVE DATA RACK

	WALL MOUNTED SECURITY CAMERA
	WALL MOUNTED SECURITY CAMERA, FIXED
	WALL MOUNTED SECURITY CAMERA, PAN/TILT/ZOOM
	CEILING MOUNTED SECURITY CAMERA
	CEILING MOUNTED SECURITY CAMERA, FIXED
	CEILING MOUNTED SECURITY CAMERA, PAN/TILT/ZOOM

	WALL MOUNTED TELECOM OUTLET (# DENOTES NUMBER OF CABLES)
	FLOOR MOUNTED TELECOM OUTLET (# DENOTES NUMBER OF CABLES)
	CEILING MOUNTED TELECOM OUTLET (# DENOTES NUMBER OF CABLES)
	INTERCOM STATION
	WIRELESS ACCESS POINT
	WALL MOUNTED TELEVISION OUTLET
	CEILING MOUNTED TELEVISION OUTLET
	FLOOR MOUNTED TELEVISION OUTLET
	FIBRE OPTIC OUTLET
	CABLE TRAY, AS INDICATED

	CEILING MOUNTED SPEAKER
	WALL MOUNTED SPEAKER

Mounting : Surface			VOLTAGE			120/208 V	BUS RAT. :			225 A			
			PHASES			3	MAIN BRKR:						
Panel Loc:			WIRE			4	INTERRUPT:						
			CIRCUITS			84	CAPACITY :						
Print Date:			Apr 21, 2016										
			11:30 AM										
CCT			LOAD	KVA	BRK SIZE	P H	BRK SIZE	KVA	LOAD		CCT		
No	Type	Description							Type	Description	No		
1		Existing				A				Existing	2		
3		Existing				B				Existing	4		
5		Existing				C				Existing	6		
7		Existing				A				Existing	8		
9		Existing				B				Existing	10		
11		Existing				C				Existing	12		
13		Existing				A				Existing	14		
15		Existing				B	15	0.40	REC.	4-plex Receptacle Rm. SB01	16		
17		Existing				C				Existing	18		
19	REC.	Housekeeping Receptacle	0.40	20		A				Existing	20		
21	REC.	Pre-action Release Panel			15	B	15	1.00	LTG.	Rm. SB05 Receptacles	22		
23	OTH.	Target System	0.50	20		C	15	1.00	LTG.	Rm. SB05 Receptacles	24		
25	OTH.	Target System	0.50	20		A				Existing	26		
27		Existing				B				Existing	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		Existing				B				Space	52		
53	REC.	Receptacle Rm. SB05	0.40	15		C				Existing	54		
55	REC.	Receptacle Rm. SB02	0.20	15		A				Existing	56		
57	REC.	Receptacle Rm. SB01 & SB02	0.40	15		B				Existing	58		
59	REC.	TV & Receptacle Rm.SB02	0.50	15		C				Existing	60		
61		Existing				A				Existing	62		
63	REC.	Pre-action Compressor	0.40	15		B				Existing	64		
65	LTG.	Rm. SB05 Lights	1.13	20		C				Existing	66		
67	LTG.	Rm. SB05 Lights	1.13	20		A				Existing	68		
69	LTG.	Rm.SB05, Rm.SB01, Rm.SB01A & Rm.SB02 Lights	1.10	20		B				Space	70		
71	LTG.	Battery Pack "BP-1"	0.50	15		C				Space	72		
73	REC.	Receptacle Rm. SB02	0.20	15		A				Existing	74		
75		Existing				B				Existing	76		
77		Existing				C				Space	78		
79		Space				A				Space	80		
81	REC.	Trap vacuum	3.00	30		B				Space	82		
83	REC.		3.00	2P		C				Space	84		

1. ALL CONDUITS TO BE ELECTRICAL METALLIC TUBING (EMT). EMT COUPLING AND CONNECTORS SHALL BE T&B STEEL, SETSCREW TYPE.
2. REAM AND REMOVE ANY SHARP PROJECTIONS ON ALL CONDUITS.
3. ALL CONDUITS SHALL BE RUN IN THE MOST DIRECT ROUTE POSSIBLE, PARALLEL OR PERPENDICULAR TO BUILDING LINES, WITH PROPER SUPPORT.
4. 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.
5. 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.

1. EMERGENCY BATTERY PACK SHALL BE LUMACELL RG24S72HP SERIES C/W TWO LIGHT HEADS WITH LD13.
2. ALL EMERGENCY LIGHT REMOTE HEADS SHALL BE LUMACELL MQM SERIES C/W LD13.
3. 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:

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

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

1. ALL ELECTRICAL MATERIALS AND INSTALLATIONS SHOWN AND/OR SPECIFIED SHALL BE INSTALLED AS PER THE MANUFACTURER'S RECOMMENDATIONS AND SHALL COMPLY IN STRICT ACCORDANCE WITH THE LATEST EDITION OF C.S.A. STANDARDS, THE C.E.C. AND STANDATA.
2. ALL CONDUIT WORK, WIRING AND JUNCTION BOXES AS MAY BE REQUIRED SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
3. ELECTRICAL CONTRACTOR TO PROVIDE AS-BUILT DRAWINGS AT PROJECT COMPLETION.
4. MAXIMUM VOLTAGE DROP SHALL BE 3%. ELECTRICAL CONTRACTOR SHALL SIZE WIRES TO SUIT.
5. ALL EXPOSED CONDUIT SHALL BE RUN PARALLEL TO BUILDING LINES, ALL CONDUIT RUNS ARE TO BE APPROVED PRIOR TO INSTALLATION.
6. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL ELECTRICAL EQUIPMENT PRIOR TO INSTALLATION.
7. PROVIDE LAMACOID LABELS FOR ANY SPECIAL PURPOSE SWITCHES OR RECEPTACLES C/W PANEL FEED, VOLTAGE, CIRCUIT NUMBERS.
8. PROVIDE LABELS FOR ALL EQUIPMENT, SWITCHES, RECEPTACLES AND FEEDERS C/W PANEL FEED AND CIRCUIT NUMBERS.
9. 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 UL-CFS, FIRESTOP SYSTEMS AND COMPONENTS SHALL BE USED TO MAINTAIN THE FIRE RATING OF THE ASSEMBLIES.
10. 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.

TYPE	VOLTAGE	WATTAGE	LAMPS/ HEADS	MOUNTING	REMARKS	MANUFACTURER – CATALOGUE NUMBER
300	120	53	LED	RECESSED	2X4 RECESSED LED LUMINAIRE	JUNO LIGHTING GROUP INDY SERIES S2X4BL-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 LED'S 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

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- 1 REMOVE EXISTING TARGET CONTROL 120V AND CONTROL WIRING AND CONDUIT BACK TO SOURCE.
- 2 8 DIMMERS FOR ROOM SB05 LIGHTING AT THIS LOCATION. ALL WIRING TO BE REMOVED. DEMO ALL ELECTRICAL IN THIS WALL.
- 3 SWITCH FOR ROOM SB05 VENTILATION CONTROL.
- 4 REMOVE ALL EXISTING EXHAUST FAN ELECTRICAL TO SOURCE.
- 5 EXISTING BEAM DETECTORS AND WIRE TO BE REMOVED. JUNCTION BOX TO BE RETAINED FOR POSSIBLE FUTURE USE. LABEL JUNCTION BOX COVER AS FUTURE BEAM DETECTOR. TIE IN CONDUIT TO JUNCTION BOX UNDER DESK AS SHOWN ON DETAILS.
- 6 REMOVE ALL 120V TO NEAREST JUNCTION BOX. REMOVE ALL CONTROL WIRING.

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 RELOCATION WORK. THE ELECTRICAL CONTRACTOR SHALL VISIT THE JOBSITE AND THOROUGHLY EXAMINE ALL REQUIRING 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 THE ROAD PAVING JOBSITE. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARLY IDENTIFYING ALL CONDUTS, WIRING, AND EQUIPMENT WHICH MUST BE MAINTAINED TO PREVENT DAMAGE TO ELECTRICAL CIRCUITS AND EQUIPMENT BY THE DEMOLITION WORK. REPAIR OR REPLACEMENT OF ELECTRICAL EQUIPMENT WILL BE ALLOWED FOR REPAIR AND REPLACEMENT OF ELECTRICAL CIRCUITS AND OR EQUIPMENT DAMAGED BY THE DEMOLITION WORK OF REPAIRS RESULTING FROM THE DEMOLITION WORK. THE ELECTRICAL CONTRACTOR TO CLEARLY IDENTIFY SAVED CIRCUITS OR EQUIPMENT.
3. THE ELECTRICAL CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED CABLES, CONDUIT, WIRE BOXES, FITTINGS AND HANGING MATERIALS FOR ELECTRICAL EQUIPMENT.

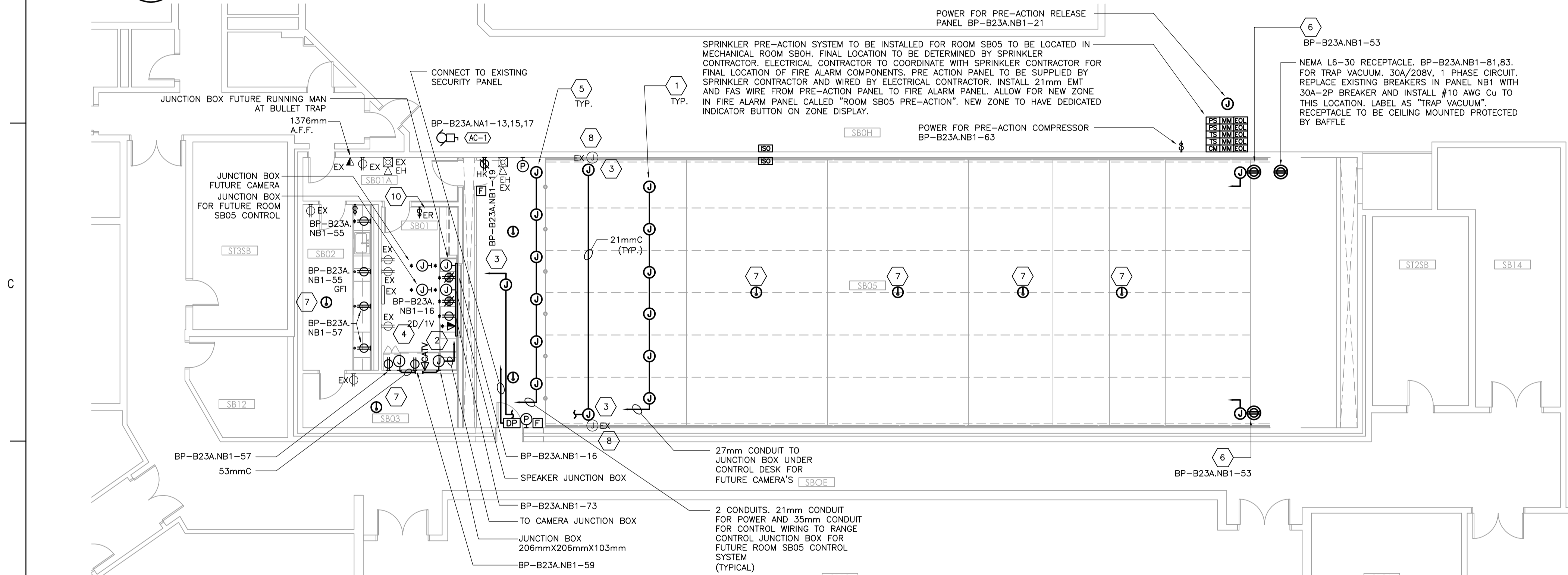
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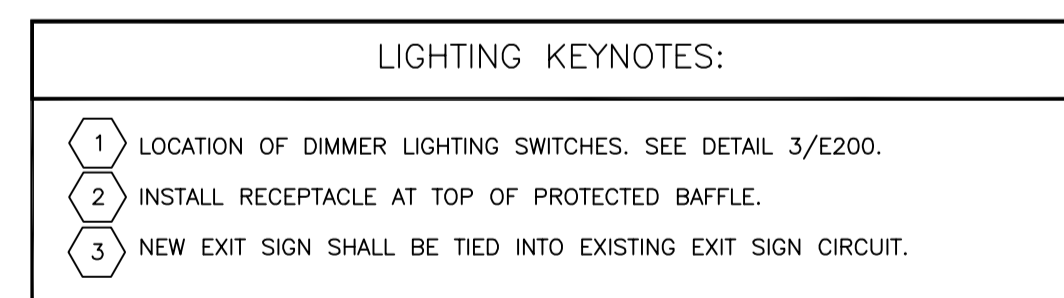
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1:100



- 1 FUTURE CAMERA. HOME RUN TO UNDER CONTROL DESK. CAMERA JUNCTION BOX TO BE LOCATED ABOVE END POINT OF BALLISTIC CEILING.
- 2 SEE 2/E400 FOR MILLWORK DETAIL .
- 3 SPEAKER JUNCTION BOX. HOME RUN TO UNDER CONTROL DESK IN ROOM SB01.
- 4 SEE ARCHITECTURAL DRAWING FOR ELEVATION.
- 5 TARGET RAIL JUNCTION BOX AND CONDUIT TO UNDER CONTROL DESK FOR FUTURE ROOM SB05 CONTROL SYSTEM. EACH FUTURE TARGET SHALL BE CONNECTED TO 20A-1P POWER CIRCUIT BP-B23A.NB1-23 FOR NORTH 3 LANES AND BP-B23A.NB1-25 FOR SOUTH 3 LANES.
- 6 JUNCTION AND 27mm CONDUIT BACK TO CONTROL DESK FOR FUTURE RUNNING MAN TARGET SYSTEM. RECEPTACLE AND JUNCTION TO BE PROTECTED BY BAFFLE.
- 7 HEAT DETECTORS TO BE INSTALLED AS PER DETAIL 1/E400.
- 8 EXISTING JUNCTION BOX IN WALL FOR BEAM DETECTORS. TIE IN CONDUITS TO ROOM SB05 CONTROL BOX.
- 9 PROVIDE AND INSTALL 100A DISCONNECT, 80A 3 POLE BREAKER AND #6 AWG CU FROM CDP-AA1 OR NEAREST 600V PANEL FOR NEW 40HP -- 400V EXHAUST FAN ON ROOF.
- 10 SWITCH FOR ROOM SB05 VENTILATION CONTROL.

NOTE:

1. SWITCH TYPE TO BE EATON GREENGATE 0-10V SLIDE DIMMER WALL STATION. ONE HOT WIRE TO SWITCH. 3 WIRES TO LIGHT FOR 0-10V DIMMING. SEE WIRING DIAGRAM ON EATON WEBSITE.
2. COLORED LAMACOID LETTERING COLOR AS SUGGESTED BY ENGRAVER. COLORS SHOWN RELATE TO DRAWING E300. FRAME AND MOUNT E300 ABOVE BANK OF SWITCHES.

N.T.S.

1:200

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E300



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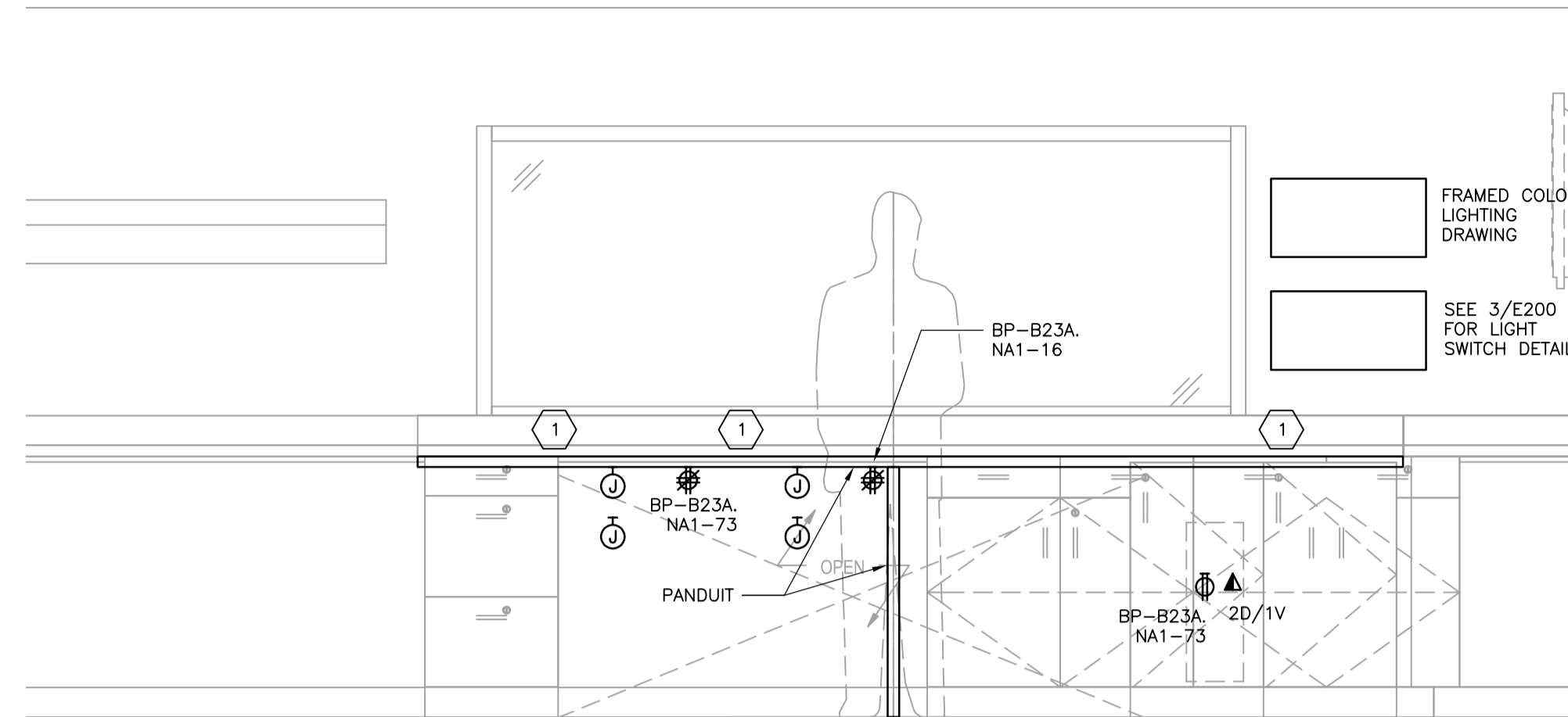
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E400



1. ALL JUNCTION BOX ARE 152mmX152mmX152mm WITH CUSTOM OVERSIZED COVERPLATE. 53mm CENTER HOLE PUNCHED IN COVER PLATE AND 53mm GROMMET INSTALLED IN THIS HOLE.
2. PANDUIT TO BE 103mm WIDE BY 103mm DEEP AND HAVE OPEN FINGER BASE WITH RIGID COVER. PANDUIT TO INSTALL BEHIND TOP DESK DRAWERS AS SHOWN.

2	ROOM SB01 - 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]								
AC-1	AIR COMPRESSOR	SBOH	5.00				575	3									S	E	E	E	BP-B23A.NA1-13,15,17	15A-3P		21mmC - 3#12 AWG Cu + #12 AWG GRD	N	N	
AH06-EF	EXHAUST FAN	SB14	40.00				208	3	VFD								DDC	M	M	M	CDP-NAA1	80A-3P		27mmC - 3#6 AWG Cu + #8 AWG GRD	N	N	
	PREACTION SYSTEM COMPRESSOR	SBOH	0.30				120	1									P	M	M	M	BP-B23A.NB1-63	15A-1P		21mmC - 2#12 AWG Cu + #12 GRD			
<div><div>[A] SUPPLIED BY: E = ELECTRICAL M = MECHANICAL</div><div>[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</div><div>[C] CONTROL TYPE: HOA = HAND/OFF/AUTO OA = OFF/AUTO OO = ON/OFF SS = START/STOP</div><div>[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</div><div>[E] PILOT LIGHTS: R = RED (OFF) G = GREEN (ON)</div><div>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</div></div>																											