From BC MoE Area Standards (05/2012)

2.2.3 Area Measurement

Room or Module Areas

Room or module area will be measured net within the inside surfaces of main enclosing walls and partitions.

Undefined Boundaries

Sometimes the boundary between circulation and other spaces such as libraries is not clearly defined. For calculation of allowable areas when this is so, passageways shall be assumed to be not less than 2 m wide where circulation is likely.

Mezzanines

With the exception of Industrial Education mezzanine storage, mezzanines shall be measured and considered as normal floor space

2.6.4 Industrial Education Covered Work Area

In addition to the allowable areas for Industrial Education a roofed, fenced, and paved work area not exceeding 65 m^2 may be added to each construction, mechanics and middle school general shop. The area of the sawdust extraction equipment room may included either in the covered work area or in the construction shop allowable area, at School Board discretion.

Covered work areas shall not be counted within the gross building area.

Gross Area

The gross area of a building floor is defined as the floor area within the inside of the exterior walls, plus a standard allowance calculated by multiplying the building perimeter (measured at the interior face) times 150 mm.

The following area calculations shall be included in the definition of facility gross floor area:

- stair openings, measured at the first floor, including stairs to rooftop penthouses
- elevator and duct shafts measured at each floor
- mezzanines including access stairs
- mechanical and electrical spaces, including all penthouse, basement and mezzanine locations (service spaces to be identified separately)
- galleries and suspended walkways, including access stairs
- all other usable or accessible floor areas.

Excluded areas from the calculations are as follows:

- · industrial education storage mezzanines
- crawl spaces or service tunnels
- elementary covered play areas
- industrial education covered work areas.





Metal Shop Safety Zones

Halim Notes

floor areas are calculated based on what formulae for occupancy ?
shops are generic designs (not mandated) and assume a maximum

of 24 students in a shop. - 24 students is the maximum; this number should be lower if said

students require special accomodations and/or needs.

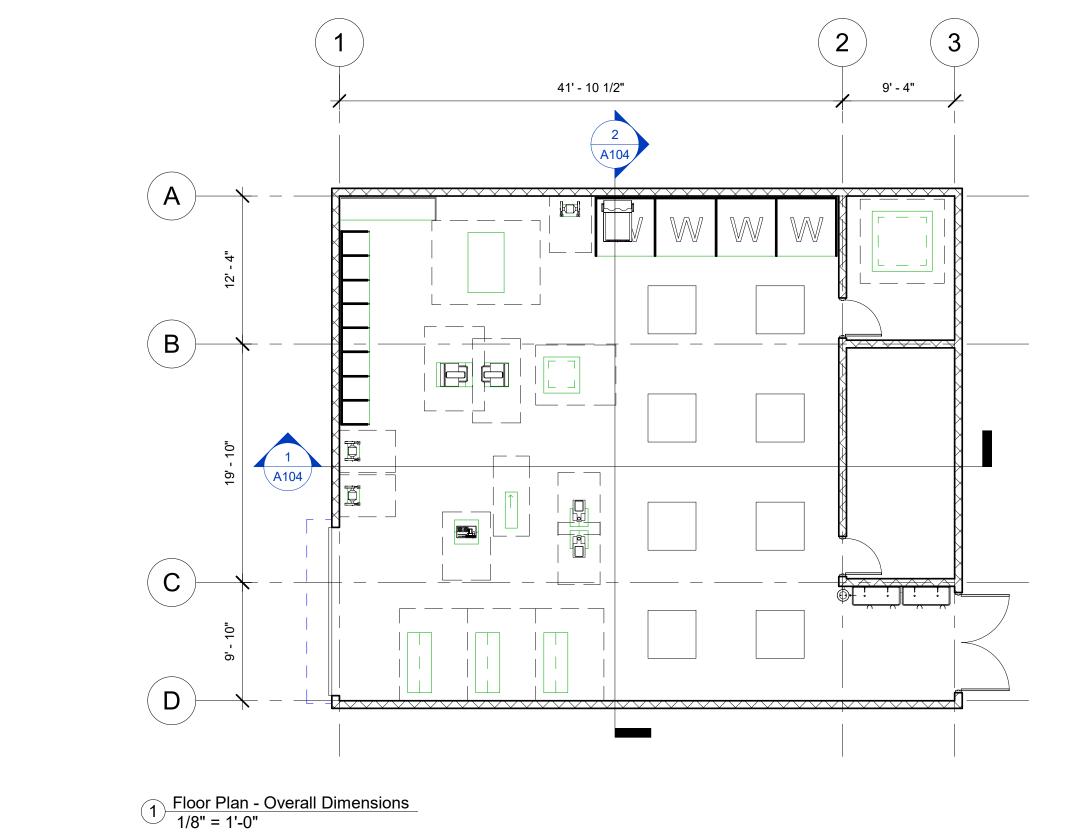
- E.g. a student may require an special education assistance (SEA), therefore the maximum class size should be 23 students and one SEA.

Technology (existing Electricity/Electronics) 140 Metalwork (use in determining existing cap.) 200 Mechanics 230	$m^2 m^2 m^2 m^2 m^2 m^2 m^2$
--	-------------------------------

Description	Date	CoverD	000	
Revision 1	2017		age	
For Review	20180929	Project number	Project Number	٨٥
		Date Drawn by	Halim	AU
		Checked by	BCTEA	Scale
_	Revision 1	Revision 1 2017	Revision 1 2017 For Review 20180929 Project number Date Drawn by	Revision 1 2017 For Review 20180929 Project number Project Number Date 2017 Drawn by Halim

Sheet List				
Sheet Number	Sheet Name			
A0	Cover Page			
A101	Floor Plan			
A102	Annotations and Area			
A103	Safety Zones			
A103.1	Safety Zone Details			
A103.2	Safety Zone Details			
A104	Section Views			
A105	3D Views			

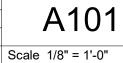
2018-09-29 5:11:20 PM



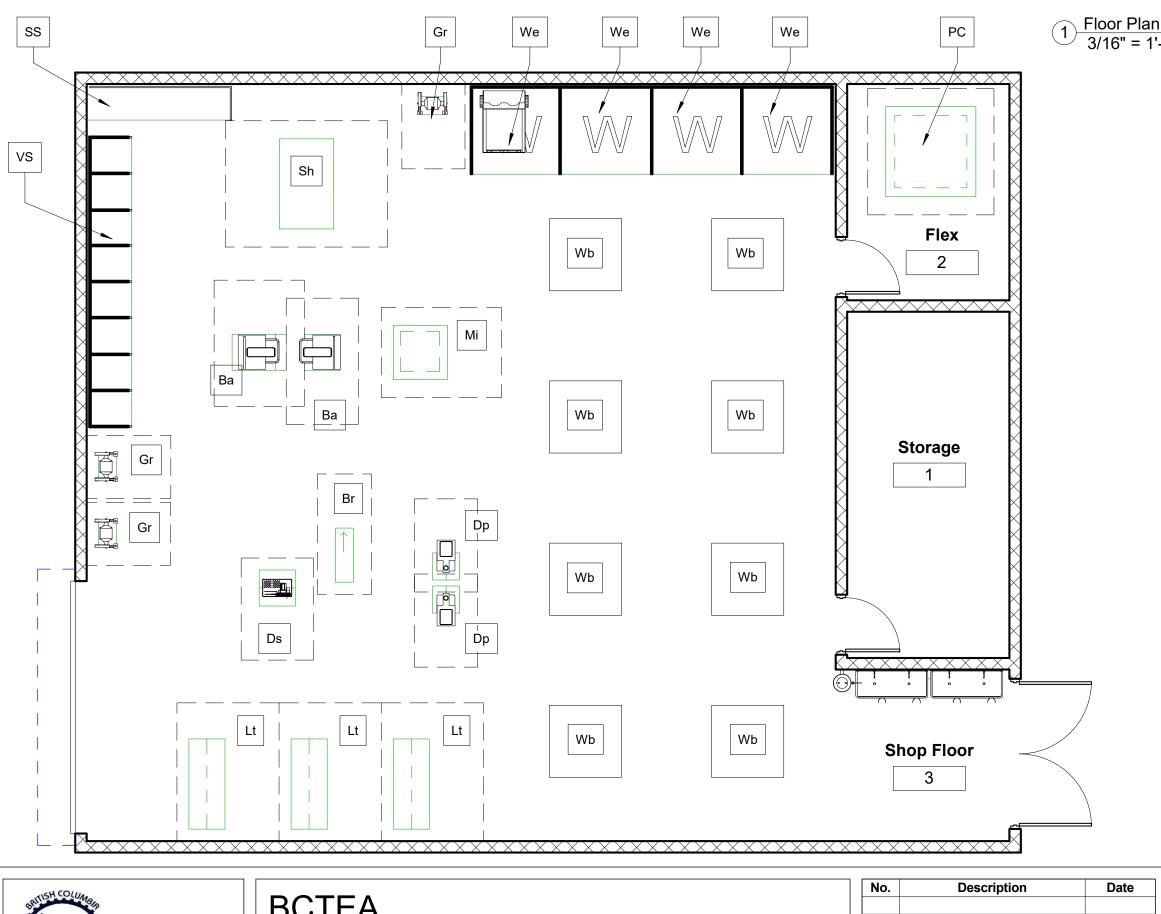


Floor Plan

Project number	Project Number
Date	2017
Drawn by	Halim
Checked by	Checker



	_
	Ĺ



881TISH COLUMBUS	BCTEA	NO.	Description	Date
www.bctea.org	Metal Shop Safety Zones			

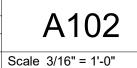
Floor Plan - Annotated 3/16" = 1'-0"

Room Schedule					
Area Area Name (Imperial) (Metric)					
Storage	173 SF	16 m²			
Flex	108 SF	10 m²			
Shop Floor	1822 SF	169 m²			

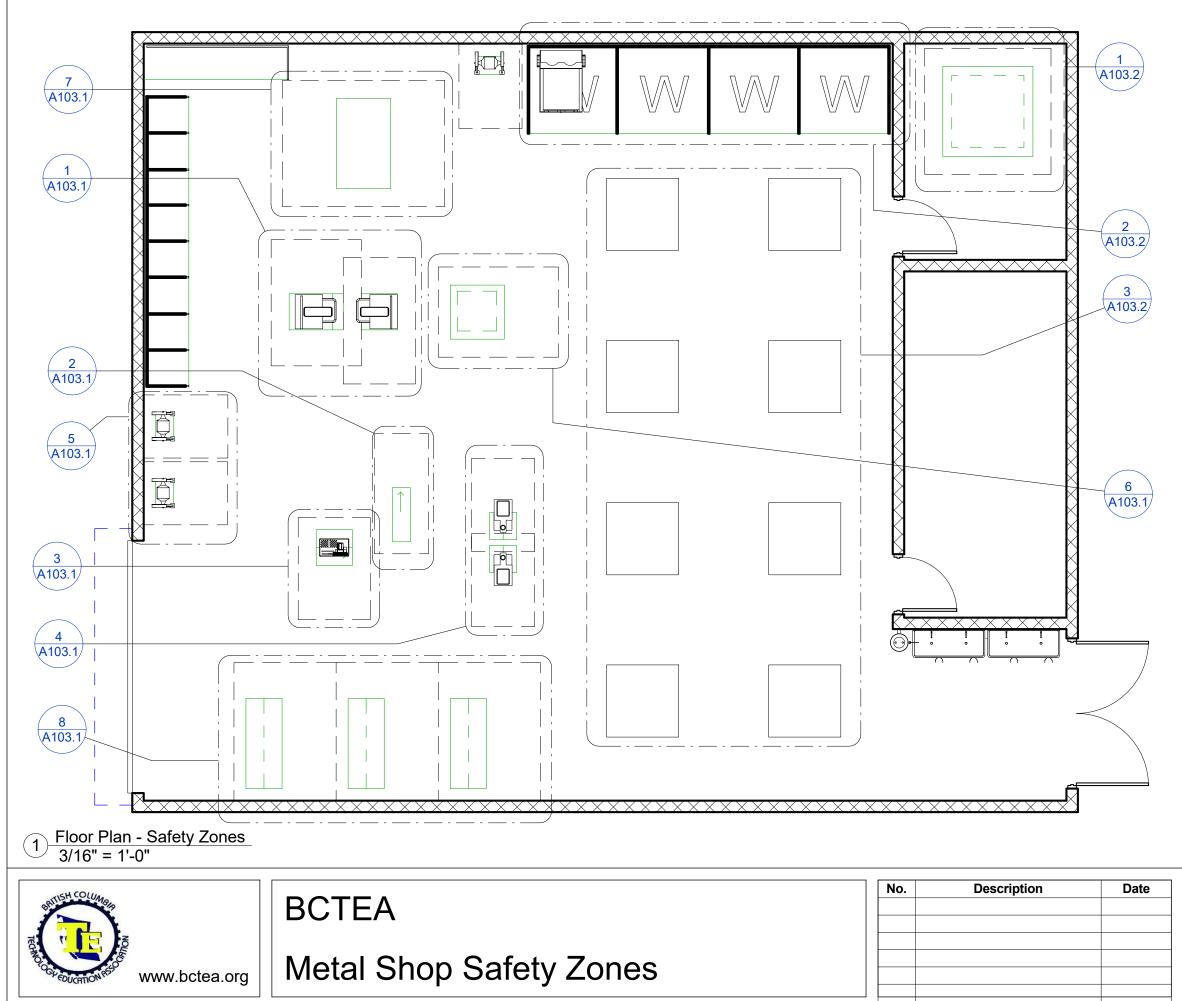
Shop Equipment Legend					
Annotation	Equipment	Count			
Ва	Bandsaw	2			
Br	Belt Sander	1			
Dp	Drill Press	2			
Ds	Disc Sander	1			
Gr	Pedestal Grinder	3			
Lt	Lathe	3			
Mi	Mill	1			
PC	Plasma CNC	1			
Sh	Shear	1			
SS	Sheet Storage	1			
VS	Vertical Storage	1			
Wb	Work Bench	8			
We	Welder	4			

Annotations and Area

Project number	Project Number
Date	2017
Drawn by	Halim
Checked by	Checker



2018-09-29 4:54:30 PM



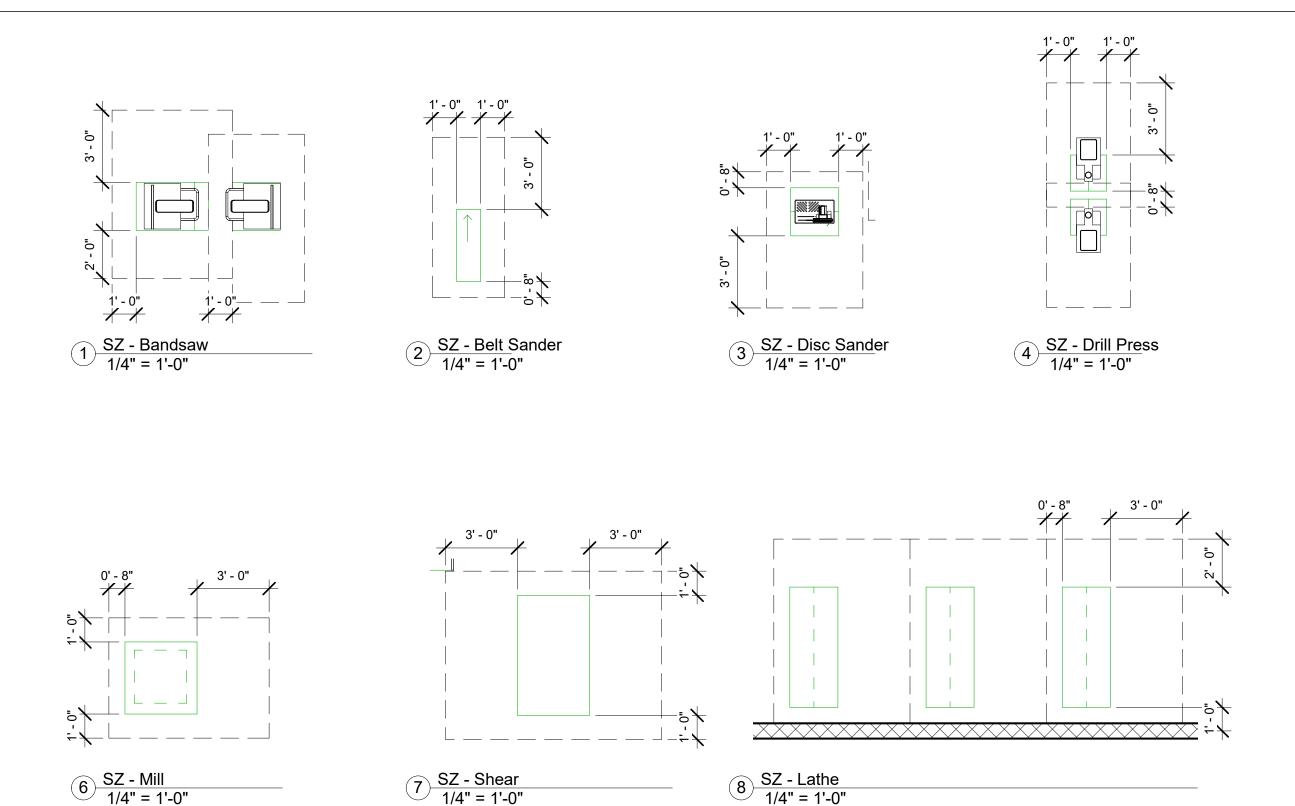
2018-09-29 4:54:32 PM

Safety Zones

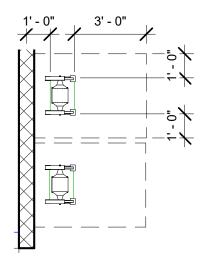
Project Number Project number 2017 Date Halim Drawn by Checked by Checker

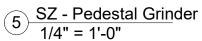
A103

Scale 3/16" = 1'-0"



BAITISH COLUMBIA	BCTEA	No.	Description	Date
	DUILA			
www.bctea.org	Metal Shop Safety Zones			
5				





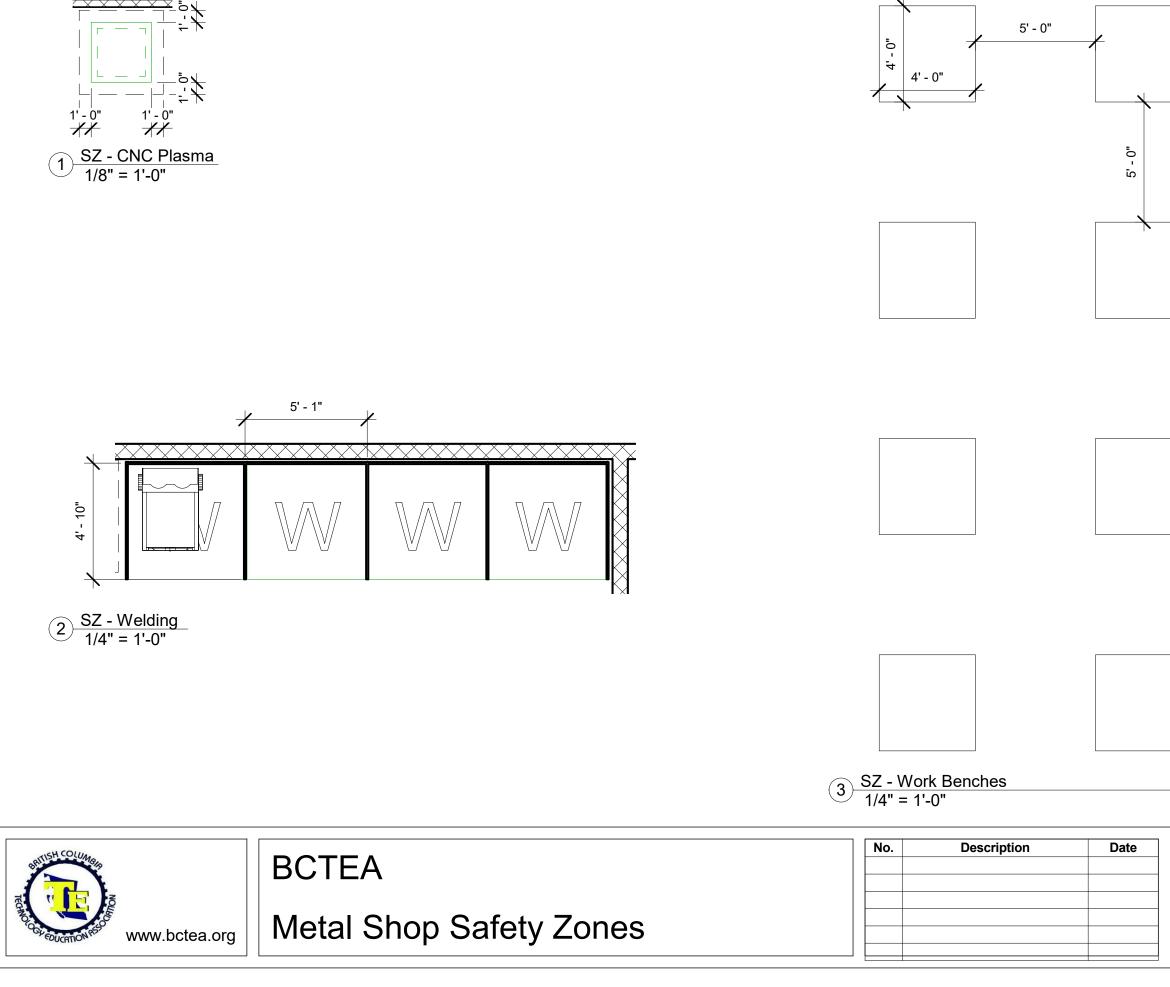
Safety Zone Details

Project number Date Drawn by Checked by Checker

Project Number 2017 Halim



Scale 1/4" = 1'-0"



Safety Zone Details

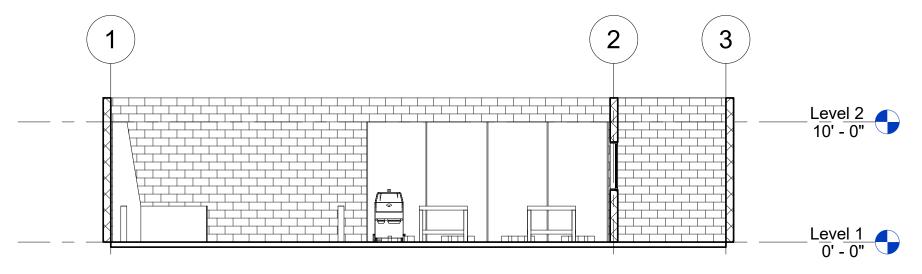
Project number Date Drawn by Checked by Checker

Project Number 2017 Halim

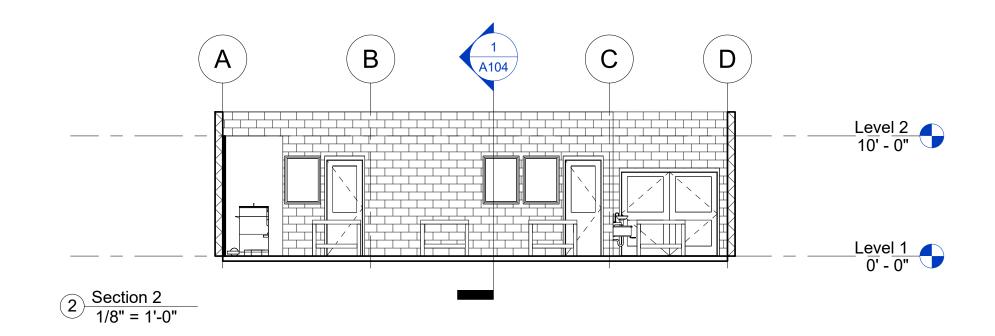
A103.2

Scale As indicated

2018-09-29 4:54:35 PM



1 Section 1 1/8" = 1'-0"





Section	Views	
Project number	Project Number	
Date	2017	A104
Drawn by	Halim	
Checked by	Checker	Scale 1/8" = 1'-0"

2018-09-29 4:54:36 PN



3D View	S	
Project number	Project Number	
Date	2017	A105
Drawn by	Halim	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Checked by	Checker	Scale 12" = 1'-0"

2018-09-29 5:10:12 PM