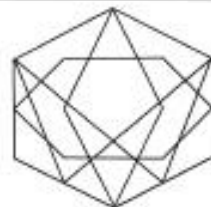


PASSIVE SOLAR RESIDENTIAL DESIGN PROJECT



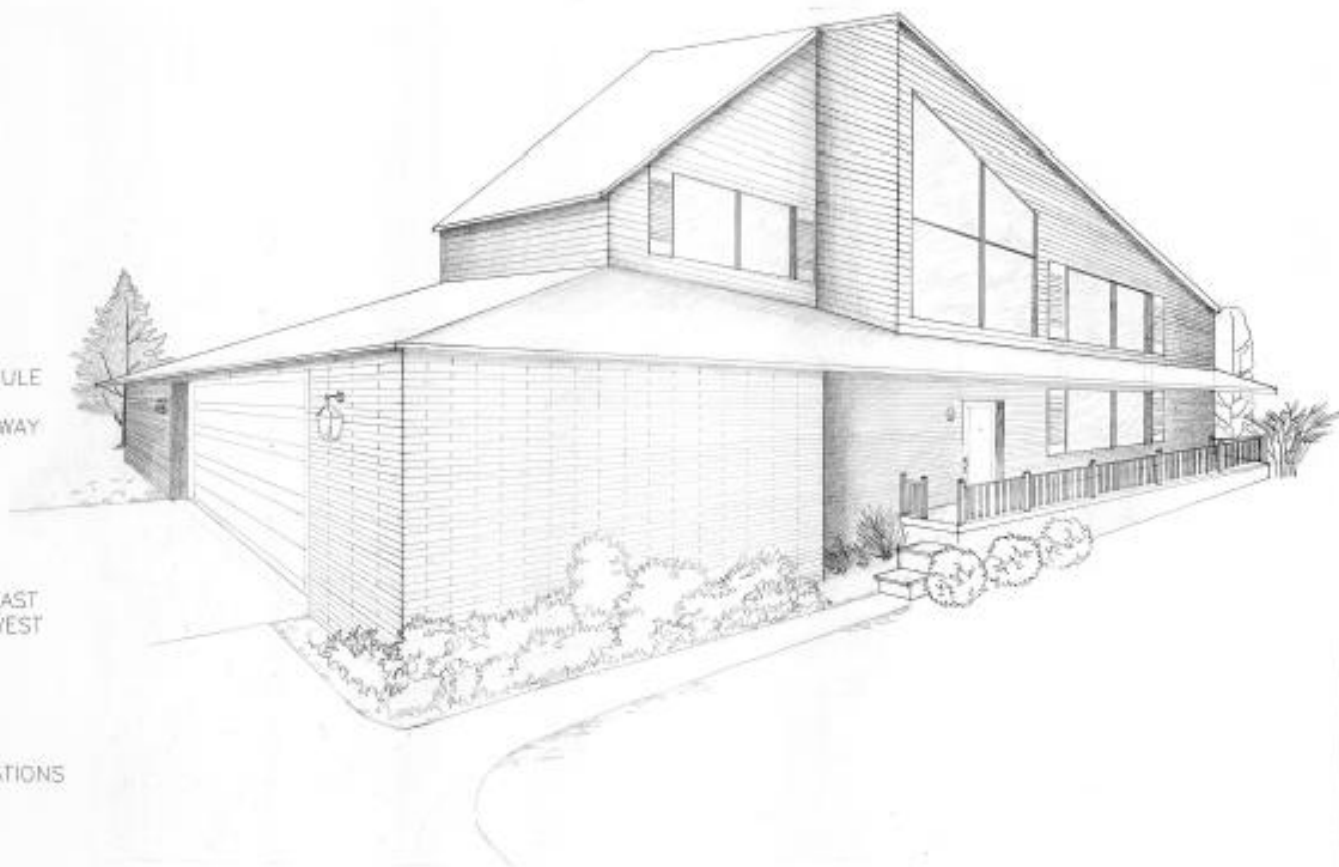
Crystal Roy Design Studio
218 King St. E. Unit 2, Toronto, ON
416-593-1234
10006121@roydesignstudio.com

SOLAR ON LIVINGSTON
375 LIVINGSTON ST. W
BARRIE, ONTARIO

SUBMITTED BY: CRYSTAL ROY
SUBMITTED TO: MARLENE MITCHELMORE
09DEC19

DRAWING LIST:

- A1: ASSEMBLIES, LEGENDS, DOOR SCHEDULE AND WINDOW SCHEDULE
- A2: SITE PLAN WITH LANDSCAPING, WALKWAY SYSTEM AND ROOF PLAN
- A3: FOUNDATION PLAN
- A4-A: FRAMING PLAN: LEVEL 1
- A4-B: FRAMING PLAN: LEVEL 2
- A5: FLOOR PLAN: LEVEL 1
- A6: FLOOR PLAN: LEVEL 2
- A7: EXTERIOR ELEVATIONS: SOUTH AND EAST
- A8: EXTERIOR ELEVATIONS: NORTH AND WEST
- A9: BUILDING SECTIONS AND DETAILS
- A10: FURNITURE PLAN: LEVEL 1
- A11: FURNITURE PLAN: LEVEL 2
- A12: LIGHTING PLAN: LEVEL 1
- A13: LIGHTING PLAN: LEVEL 2
- A14: PICTORIAL INTERIOR SECTIONAL ELEVATIONS
- A15: MILLWORK - FOOD PREPARATION
- A16: INTERIOR PERSPECTIVE



NOT ASSEMBLY LEGENDS

SOLAR TILE ROOF		ASPHALT SINGLE ROOF	
RF1	1/2" TOSLA SOLAR SHINGLES (INSTALLED AS PER MANUFACTURER)	RF2	1/4" ASPHALT SHINGLES (INSTALLED AS PER MANUFACTURER)
	INSTALLATION CLOTH		ASPHALT PAPER
	1" RIGID INSULATION		1" RIGID INSULATION
	WATER SHIELD		SC/WATER SHIELD
	1/2" PLYWOOD SHEATHING		1/2" PLYWOOD SHEATHING
	FRAMING AS INDICATED		FRAMING AS INDICATED
	6 MIL. POLY VAPOUR BARRIER		6 MIL. POLY VAPOUR BARRIER
	5/8" GYPSUM BOARD		5/8" GYPSUM BOARD

WALL ASSEMBLY LEGENDS

EXTERIOR WALL		45 MINUTE FIRE RATED WALL	
W1	3" BRICK FAÇADE (INSTALLATION AS PER MANUFACTURER)	W2	5/8" FIRE RATED GYPSUM BOARD
	1" AIR GAP	W3	1/2" STRAPPING AT 16" O.C.
	1" RIGID INSULATION		BUILDING PAPER
	BUILDING PAPER		1/2" PLYWOOD SHEATHING
	1/2" PLYWOOD SHEATHING		2x6 STUDS AT 24" O.C. WITH SPRAY-FOAM INSTALLATION (R24)
	2x6 STUDS AT 24" O.C. WITH SPRAY-FOAM INSTALLATION (R24)		6 MIL. POLY VAPOUR BARRIER
	6 MIL. POLY VAPOUR BARRIER		1/2" GYPSUM BOARD
	1/2" GYPSUM BOARD		

TRIMMER WALL		PARTITION WALLS	
W4	2 GLASS PLANE	W5	1/2" GYPSUM BOARD
W5	1" AIR GAP	W6	2x6 STUDS AT 16" O.C.
	1" CONCRETE		1/2" GYPSUM BOARD

FOUNDATION WALL		GARAGE WALLS	
W5	1/2" CONCRETE BOARD	W6	3 1/2" STONE FAÇADE (INSTALLATION AS PER MANUFACTURER)
W6	DAMP PROOFING MEMBRANE		
	10" CONCRETE	W7	1" AIR GAP
	2x6 STUDS AT 16" O.C. WITH SPRAY INSULATION (R24)		1" RIGID INSULATION
	6 MIL. POLY VAPOUR BARRIER		BUILDING PAPER
	1/2" GYPSUM BOARD		1/2" PLYWOOD SHEATHING
			2x6 STUDS AT 16" O.C. WITH BATT INSTALLATION (R24)
			6 MIL. POLY VAPOUR BARRIER
			1/2" GYPSUM BOARD

FLOOR ASSEMBLY LEGENDS

GARAGE SLAB	
FL1	4" CONCRETE
FL2	6 MIL. POLY VAPOUR BARRIER
	6" GRANULAR SUB-BASE

INTERIOR SLAB FLOOR	
FL2	6" FIBER REINFORCED CONCRETE SLAB
FL3	6 MIL. POLY VAPOUR BARRIER
	2" RIGID INSULATION
	6" COMPACT GRANULAR FILL

INTERIOR WOOD FLOOR	
FL3	1/2" FINISH FLOOR (INSTALL AS PER MANUFACTURER)
FL4	1/2" PLYWOOD
	FRAMING (AS INDICATED)
	5/8" GYPSUM BOARD

EXTERIOR DOOR SCHEDULE

NO.	SYMBOL	TYPE	FINISH	GLASS	GLASS TYPE	GLASS AREA	GLASS WEIGHT	GLASS COST	GLASS WEIGHT	GLASS COST	GLASS WEIGHT	GLASS COST
1	1	1	1	1	1	1	1	1	1	1	1	1

WINDOW SCHEDULE

NO.	SYMBOL	TYPE	FINISH	GLASS	GLASS TYPE	GLASS AREA	GLASS WEIGHT	GLASS COST	GLASS WEIGHT	GLASS COST	GLASS WEIGHT	GLASS COST
1	1	1	1	1	1	1	1	1	1	1	1	1

DOOR SCHEDULE

NO.	SYMBOL	TYPE	FINISH	GLASS	GLASS TYPE	GLASS AREA	GLASS WEIGHT	GLASS COST	GLASS WEIGHT	GLASS COST	GLASS WEIGHT	GLASS COST
1	1	1	1	1	1	1	1	1	1	1	1	1

DOOR TYPE

1	1	1	1
---	---	---	---

FRAME TYPE

1	1	1
---	---	---



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 300002278@student.geog.queensu.ca



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NO.	REVISIONS	DATE

THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS ON SITE AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK. ALL DIMENSIONS ARE PROPERTY OF THE ENGINEER AND MUST BE RETURNED UPON COMPLETION OF THE PROJECT. DO NOT SCALE DRAWINGS.

GEORGIAN COLLEGE OF APPLIED ARTS & TECHNOLOGY
 BARRIE, ORILLIA, OWEN SOUND, ONTARIO

COURSE: INDE 2000 SECTION: FALL 2019

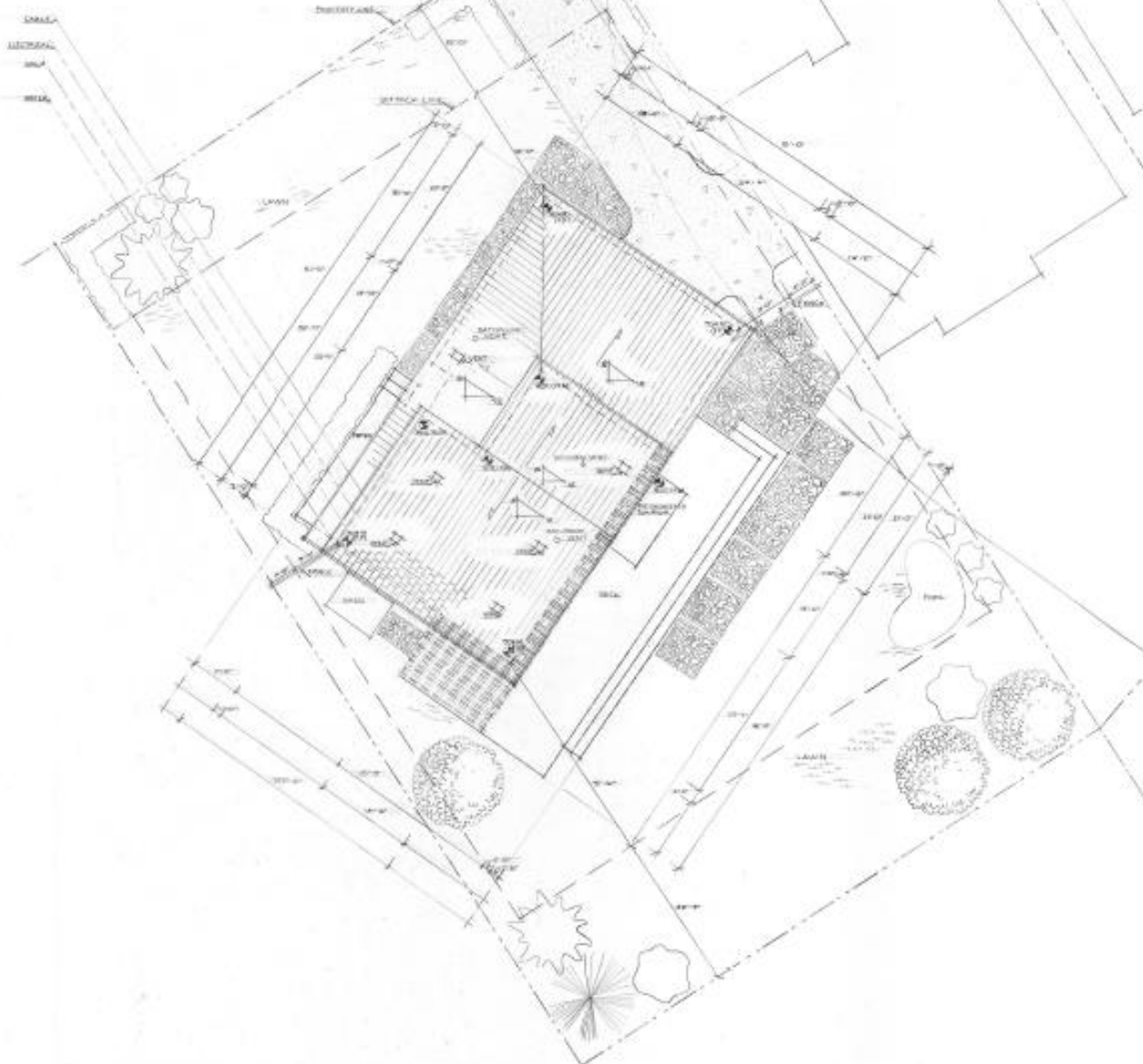
PROJECT: PASSIVE SOLAR SUSTAINABLE RESIDENTIAL DESIGN

DRAWING: ASSEMBLY LEGENDS, DOOR SCHEDULE AND WINDOW SCHEDULE

DRAWN BY: CRYSTAL ROY CHECKED BY: A.V.Z.
 DATE: DEC 9 2019 SCALE: 1/4" = 1'-0"

#1 A1

CHALK
 ELECTRICAL
 PAINT
 BRICK



LEGEND	
SYMBOL	DESCRIPTION
+	DOWNPOUT
[Stippled Box]	CONCRETE
[Hatched Box]	VENTS
[Star Symbol]	GEOMETICS
[White Box]	HEDGE
[Sun Symbol]	EVERGREEN TREE
[Leaf Symbol]	DECIDUOUS TREE
[Stippled Path]	STONE PATHWAY
[Wavy Line]	GRASS
[Rectangular Symbols]	SOLAR PANELS

PROJECT INFORMATION

MUNICIPAL ADDRESS: 575 LIVINGSTON STREET WEST
 (BARRE, ONTARIO)

APPLICABLE BUILDING CODE: ONTARIO BUILDING CODE
 REFER TO OAC DATA BATTERY AND ENERGY EFFICIENT
 DESIGN SUMMARY FOR IMPORTANT REQUIREMENTS.

OCCUPANCY, PART 9, GROUP C, RESIDENTIAL OCCUPANCIES

ZONING #4
 LOT TYPE: INTERIOR
 MIN. LOT AREA/LIMIT: 960m² (9600 sqft.)
 MIN. LOT FRONTAGE: 22m (72'-0")
 MIN. LOT SETBACKS: FRONT 4.5m (15'-0")
 SIDE 1.5m (4'-0")
 REAR 7m (23'-0")

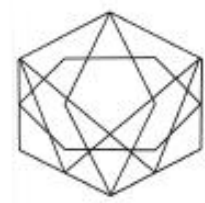
MIN. GR: 1.00% (1.00 sqft.)
 MAX. BLDG HEIGHT: 10 (32'-8")
 MAX. LOT COVERAGE: 45%

PROJECT STATS
 SITE AREA: 12098 sqft.
 BUILDING FOOTPRINT: 1401 sqft.
 SQUARE FOOTAGE: 1775 sqft.
 PARCEL COVERAGE: 11.7 %

GENERAL NOTES



1 KEY PLAN
 A11 1/8" = 1'-0"



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 230 King St. E. Unit 2, Toronto, ON
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4		
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NO.	REVISIONS	DATE

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GEORGIAN COLLEGE
 OF APPLIED ARTS & TECHNOLOGY
 BARRE, ORILLIA, OWEN SOUND,
 ONTARIO

COURSE:
 HED 2000

SECTION:
 FALL 2020

PROJECT:
 PASSIVE SOLAR SUSTAINABLE
 RESIDENTIAL DESIGN

DRAWING:
 SITE PLAN WITH LANDSCAPING,
 WALKWAY SYSTEM AND ROOF PLAN

DRAWN BY:
 CRYSTAL KEY

CHECKED BY:
 A.V.Z.

DATE:
 DEC 9 2020

SCALE:
 1" = 1'-0"

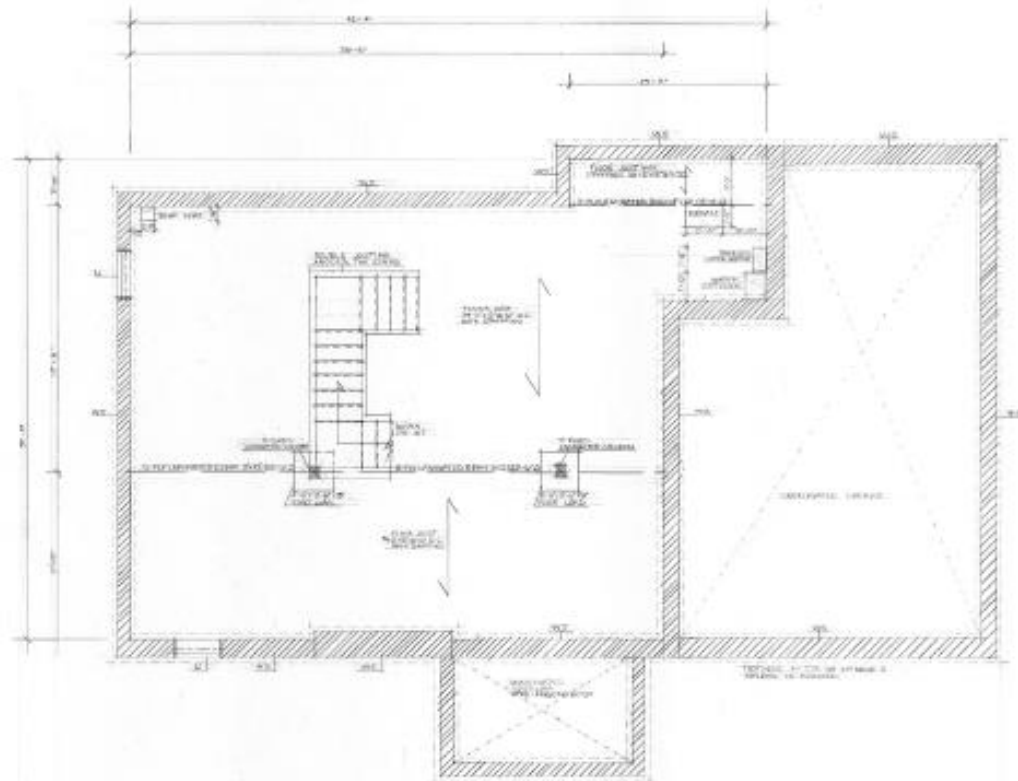
PROJECT NO.:

REVISIONS:

#1

A2

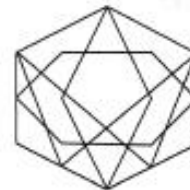
1 SITE PLAN WITH LANDSCAPING, WALKWAY SYSTEM AND ROOF PLAN
 A11 1/8" = 1'-0"



A1 FOUNDATION PLAN
 A2 SCALE: 1/4" = 1'-0"

LINTEL LEGEND	
SYMBOL	DESCRIPTION
L1	3'-4" (2 PLATES - 206)
L2	6'-4" (2 PLATES - 206)
L3	11'-4" (2 PLATES - 206)
L4	17'-8" (2 PLATES - 206)
L5	17'-0" (2 PLATES - 2012)
L6	9'-8" (2 PLATES - 206)
L7	7'-2" (2 PLATES - 206)
L8	6'-11" (2 PLATES - 206)

- GENERAL NOTES:
1. ALL DIMENSIONS UNLESS OTHERWISE NOTED.
 2. ALL ROOF STRUCTURAL SELECT WOOD UNLESS OTHERWISE NOTED.
 3. ALL ROOF JOIST STRUCTURAL SELECT WOOD UNLESS OTHERWISE NOTED.
 4. ALL WOOD SHALL BE SIKKO SELECT WOOD UNLESS OTHERWISE NOTED.
 5. OTHER FOUNDATION SHALL BE CONFORM TO ALL 17' WIDER THAN FOUNDATION WALLS 6" DEEP.



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 416-555-1234
 20020278@studart.geoplenc.on.ca



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NO.	REVISIONS	DATE

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 OF APPLIED ARTS & TECHNOLOGY
 BARRIE, ORILLIA, OWEN SOUND,
 ONTARIO

COURSE:
 INDE 3000

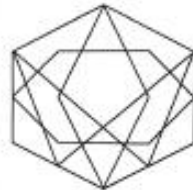
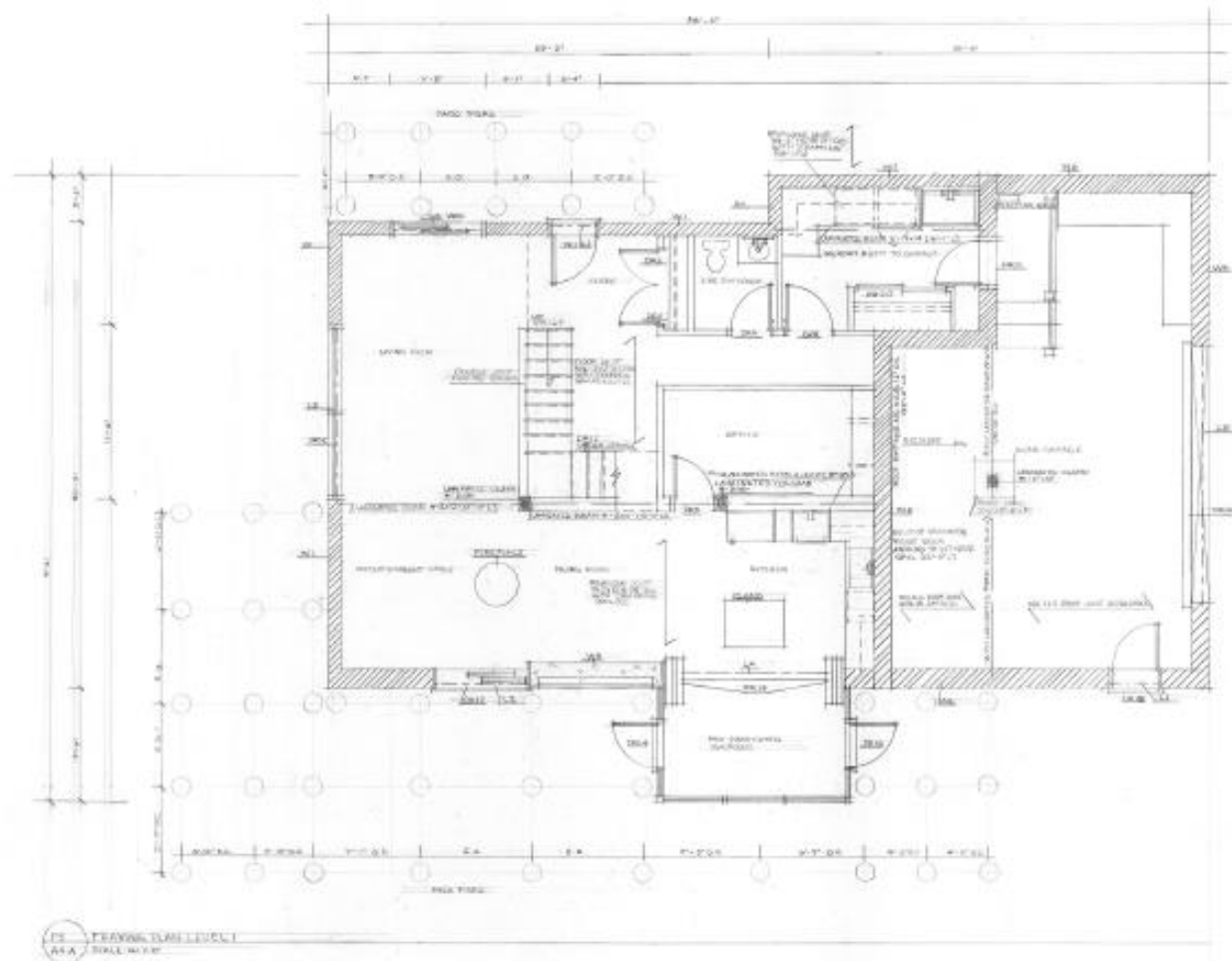
SECTION:
 FALL2019

PROJECT:
 PASSIVE SOLAR SUSTAINABLE
 RESIDENTIAL DESIGN

DRAWING:
 FOUNDATION PLAN

DRAWN BY: CRYSTAL RAY
 CHECKED BY: A.V.L.
 DATE: DEC 8 2019
 SCALE: 1/4" = 1'-0"

PROJECT NO.:
 DRAWING NO.:
#1 **A3**



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 210 King St. E. Unit 2, Toronto, ON
 416-595-2234
 100053270@student.georgian.on.ca



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NO.	REVISIONS	DATE

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 OF APPLIED ARTS & TECHNOLOGY
 BARRIE, ORILLIA, OWEN SOUND,
 ONTARIO

COURSE:
 INDE 2000

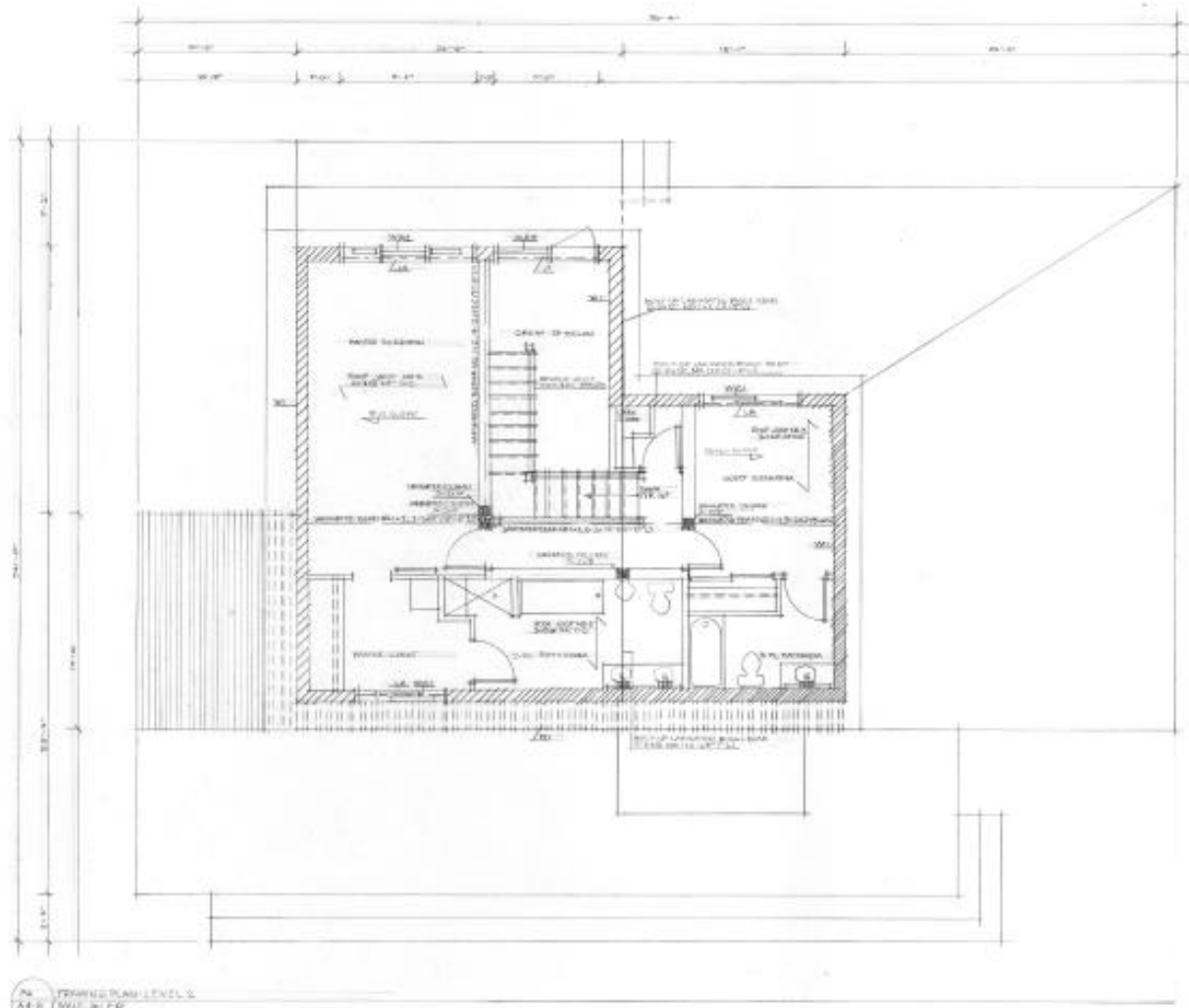
SECTION:
 FALL 2013

PROJECT:
 MASSIVE SOLAR SUSTAINABLE
 RESIDENTIAL DESIGN

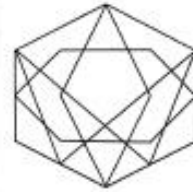
DRAWING:
 FRAMING PLAN LEVEL 1

DESIGNED BY: CRYSTAL ROP	CHECKED BY: A. J. V.
DATE: DEC 9 2013	SCALE: 1/4" = 1'-0"

#1 A4.A



FRAMING PLAN LEVEL 2
A4B



Crystal Ray Design Studio
250 King St E, Unit 2, Toronto, ON
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100602758@student.georgian.on.ca



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NO.	REVISIONS	DATE

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GEORGIAN COLLEGE
OF APPLIED ARTS & TECHNOLOGY
BARRIE, ORILLIA, OWEN SOUND,
ONTARIO

COURSE:
INDC 2000

SECTION:
FALL 2019

PROJECT:

PASSIVE SOLAR SUSTAINABLE
RESIDENTIAL DESIGN

DRAWING:

FRAMING PLAN LEVEL 2

DESIGN BY:
CRYSTAL RAY

CHECKED BY:
A.V. Z.

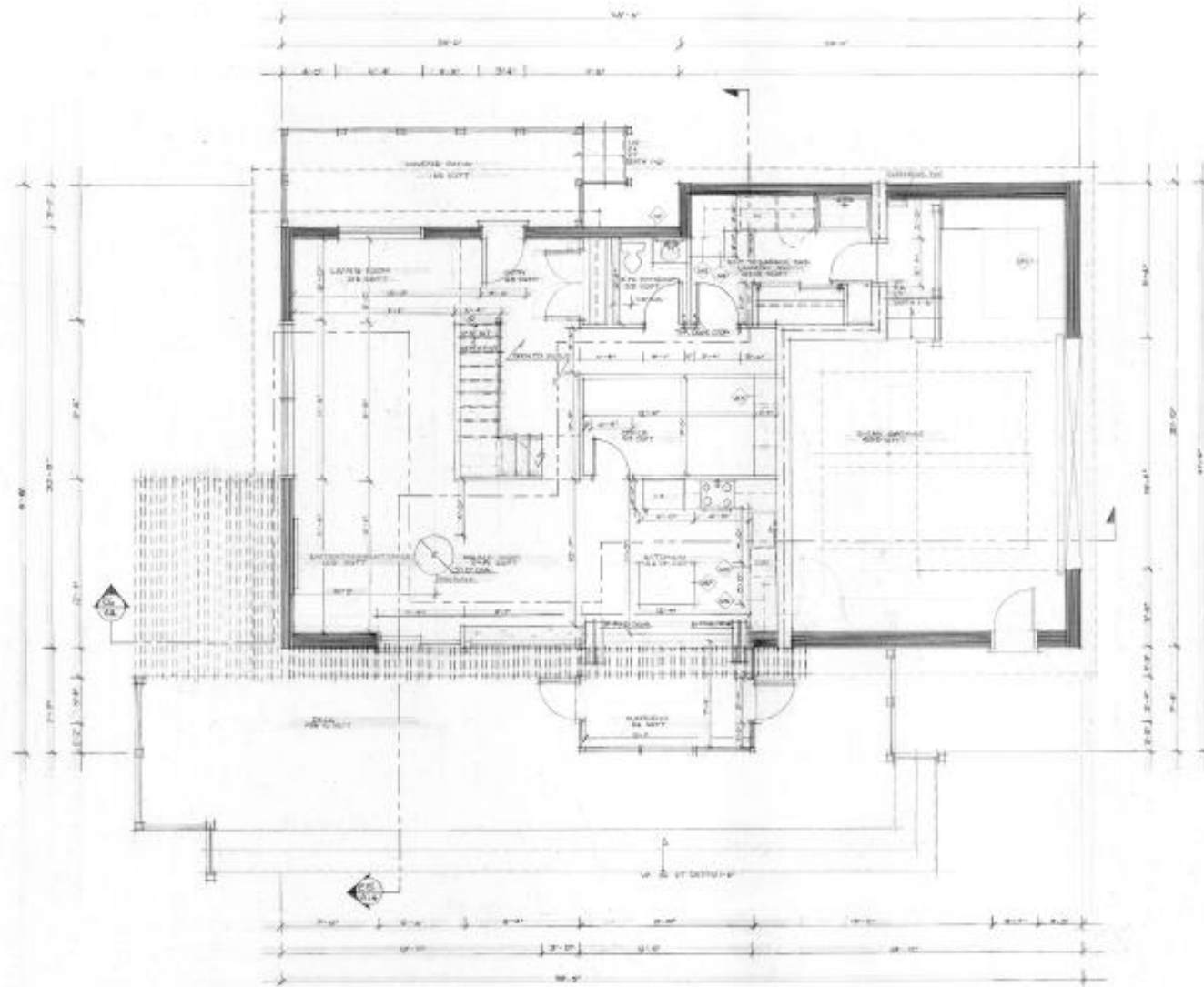
DATE:
DEC 9 2018

SCALE:
1/4" = 1'-0"

PROJECT NO.:

DRAWING NO.:

#1 A4B



FLOOR PLAN - LEVEL 1
SCALE: 1/4" = 1'-0"

PARTITION TYPE LEGEND

SYMBOL	DESCRIPTION
[Symbol]	EXTERIOR BRICK WALL
[Symbol]	EXTERIOR STONE WALL
[Symbol]	FIRE WALL
[Symbol]	INTERIOR PARTITION
[Symbol]	TROMBE WALL

MILLWORK LEGEND

SYMBOL	DESCRIPTION
[Symbol]	2-PC BATHROOM VANITY
[Symbol]	LAUNDRY COUNTER AND STORAGE
[Symbol]	LAUNDRY OVERHEAD CABINETS
[Symbol]	OFFICE BOOKSHELF
[Symbol]	KITCHEN COUNTER AND STORAGE
[Symbol]	KITCHEN OVERHEAD CABINETS
[Symbol]	KITCHEN ISLAND
[Symbol]	GARAGE WORK BENCH
[Symbol]	3-PC BATHROOM VANITY
[Symbol]	5-PC BATHROOM VANITY
[Symbol]	WALK-IN CLOSET SHELFING
[Symbol]	WALK-IN CLOSET DOOR
[Symbol]	LINEN CLOSET SHELFING



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416-595-1234
1.000.327.6@student.georgian.ca



SEA-1775

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NO.	REVISIONS	DATE

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GEORGIAN COLLEGE OF APPLIED ARTS & TECHNOLOGY
BARRIE, GRILLIA, OWEN SOUND, ONTARIO

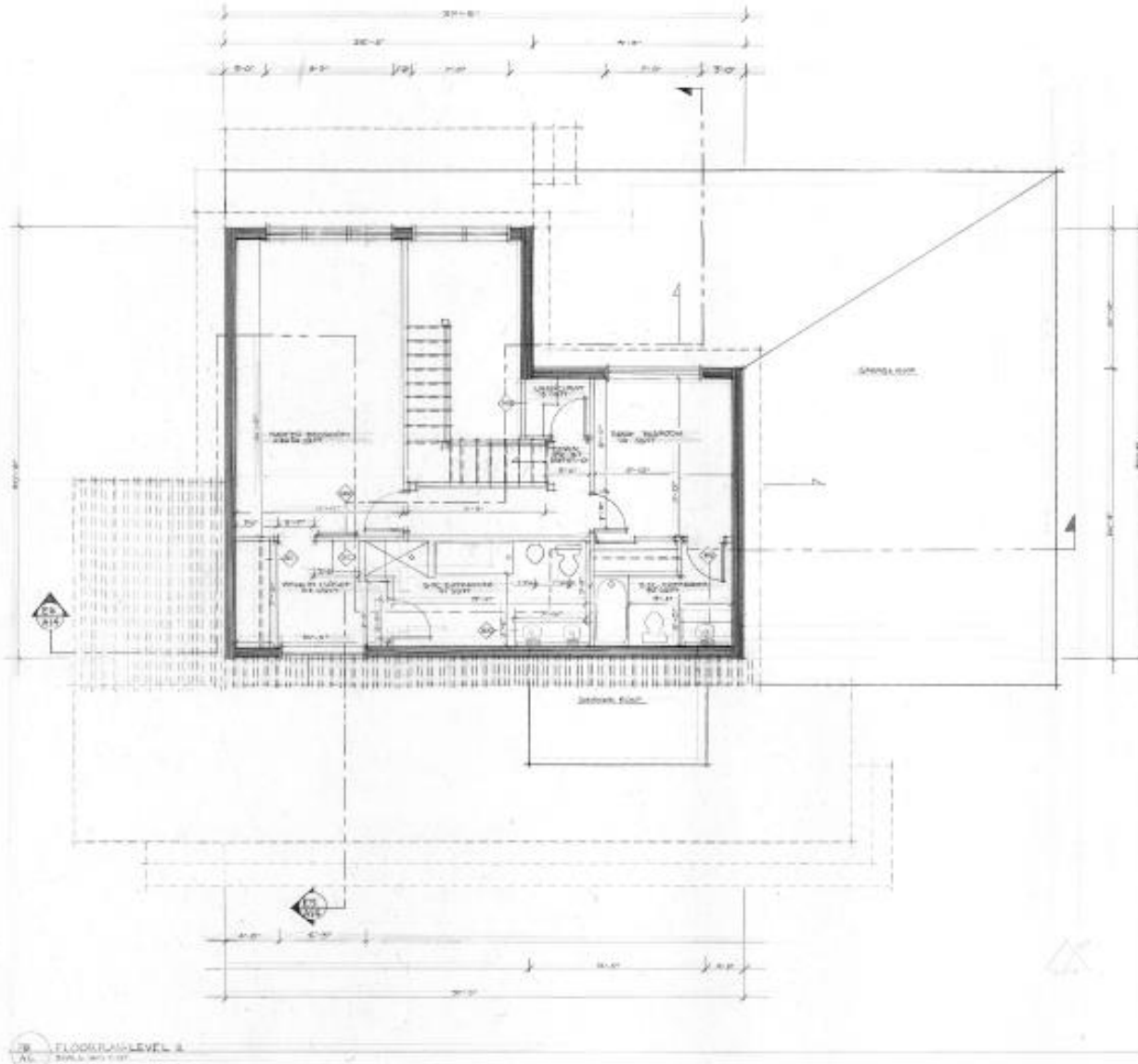
COURSE: INDE 3000	SECTION: FALL 2010
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PROJECT:
PASSIVE SOLAR SUSTAINABLE RESIDENTIAL DESIGN

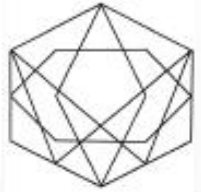
DRAWING:
FLOOR PLAN - LEVEL 1

DESIGNED BY CRYSTAL ROY	APPROVED BY M. M.
DATE DEC 9 2010	SCALE 1/4" = 1'-0"

#1 **A5**



2B FLOOR PLAN - LEVEL 2
SCALE: 1/8" = 1'-0"



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218 King St. E. Unit 2, Toronto, On
416-525-4234
10000178@studart.georgian.on.ca



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NO.	REVISIONS	DATE

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GEORGIAN COLLEGE
OF APPLIED ARTS & TECHNOLOGY
BARRIE, ORILLIA, OWEN SOUND,
ONTARIO

COURSE:
INDE 2000

SECTION:
FALL 2019

PROJECT:
PASSIVE SQUARE SUSTAINABLE
RESIDENTIAL DESIGN

DRAWING:
FLOOR PLAN - LEVEL 2

DRAWN BY:
COPPING, REP

CHECKED BY:
M.V.

DATE:
DEC 9 2019

SCALE:
1/8" = 1'-0"

PROJECT NO.:

PLANNING NO.:

#1

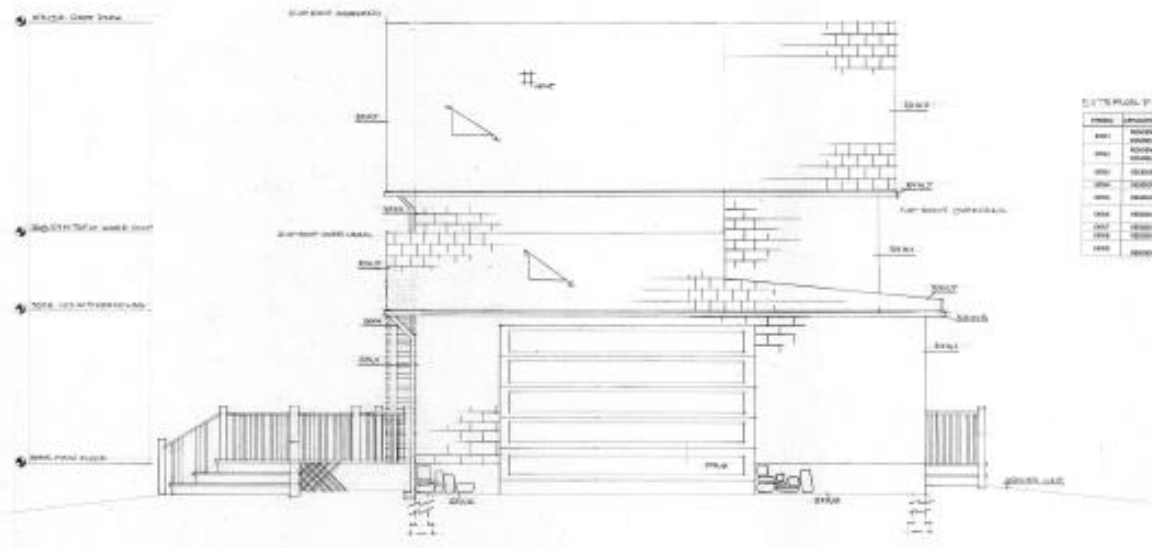
A6

GENERAL NOTES:

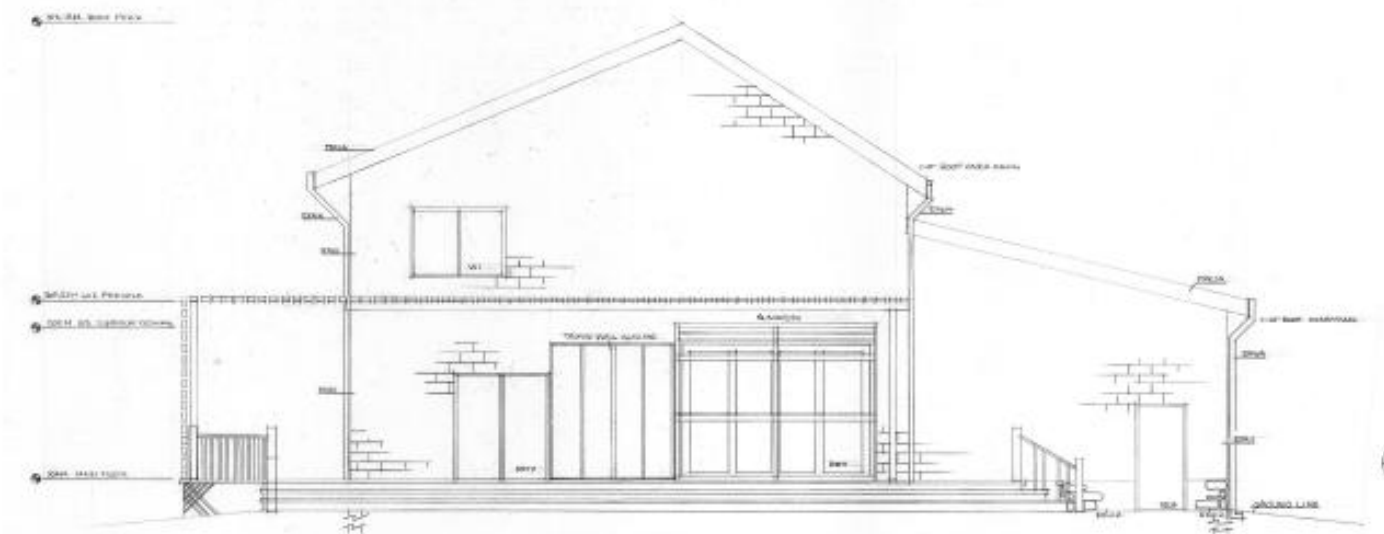
1. ALL ELEVATIONS SHOWN IN ACCORDANCE WITH PROJECT NORTH.
2. SOLAR TILES INSTALLED ON WEST ROOF PITCH ONLY.
3. SOLAR TILES CHARGING CILL INSTALLED ON WEST WALL.
4. EDG'S FINISHING ON FRONT PATIO AND REAR DECK.
5. LATTICE TO BE INSTALLED UNDER FRONT PATIO AND REAR DECK.
6. SUNROOM MADE TO ORDER, CONSTRUCTED OFF-SITE AND DELIVERED BY MANUFACTURER, TO BE INSTALLED BY CONTRACTOR.
7. GLAZING FOR TROMBE WALL CUSTOM ORDERED, WILL BE DELIVERED TO SITE AND INSTALLED BY MANUFACTURER.

EXTERIOR FINISH SCHEDULE

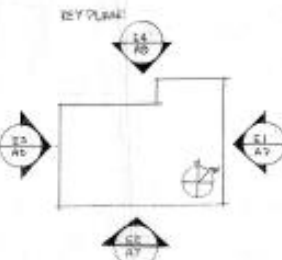
NO.	DESCRIPTION	QUANTITY	UNIT	FINISH	REMARKS	DATE
001	CONCRETE	100	sqm	CONCRETE		
002	BRICK	100	sqm	BRICK		
003	WOOD	100	sqm	WOOD		
004	GLASS	100	sqm	GLASS		
005	ROOFING	100	sqm	ROOFING		
006	PAINT	100	sqm	PAINT		
007	FINISH	100	sqm	FINISH		
008	GLAZING	100	sqm	GLAZING		
009	CONCRETE	100	sqm	CONCRETE		
010	BRICK	100	sqm	BRICK		
011	WOOD	100	sqm	WOOD		
012	GLASS	100	sqm	GLASS		
013	ROOFING	100	sqm	ROOFING		
014	PAINT	100	sqm	PAINT		
015	FINISH	100	sqm	FINISH		
016	GLAZING	100	sqm	GLAZING		
017	CONCRETE	100	sqm	CONCRETE		
018	BRICK	100	sqm	BRICK		
019	WOOD	100	sqm	WOOD		
020	GLASS	100	sqm	GLASS		
021	ROOFING	100	sqm	ROOFING		
022	PAINT	100	sqm	PAINT		
023	FINISH	100	sqm	FINISH		
024	GLAZING	100	sqm	GLAZING		
025	CONCRETE	100	sqm	CONCRETE		
026	BRICK	100	sqm	BRICK		
027	WOOD	100	sqm	WOOD		
028	GLASS	100	sqm	GLASS		
029	ROOFING	100	sqm	ROOFING		
030	PAINT	100	sqm	PAINT		
031	FINISH	100	sqm	FINISH		
032	GLAZING	100	sqm	GLAZING		
033	CONCRETE	100	sqm	CONCRETE		
034	BRICK	100	sqm	BRICK		
035	WOOD	100	sqm	WOOD		
036	GLASS	100	sqm	GLASS		
037	ROOFING	100	sqm	ROOFING		
038	PAINT	100	sqm	PAINT		
039	FINISH	100	sqm	FINISH		
040	GLAZING	100	sqm	GLAZING		
041	CONCRETE	100	sqm	CONCRETE		
042	BRICK	100	sqm	BRICK		
043	WOOD	100	sqm	WOOD		
044	GLASS	100	sqm	GLASS		
045	ROOFING	100	sqm	ROOFING		
046	PAINT	100	sqm	PAINT		
047	FINISH	100	sqm	FINISH		
048	GLAZING	100	sqm	GLAZING		
049	CONCRETE	100	sqm	CONCRETE		
050	BRICK	100	sqm	BRICK		
051	WOOD	100	sqm	WOOD		
052	GLASS	100	sqm	GLASS		
053	ROOFING	100	sqm	ROOFING		
054	PAINT	100	sqm	PAINT		
055	FINISH	100	sqm	FINISH		
056	GLAZING	100	sqm	GLAZING		
057	CONCRETE	100	sqm	CONCRETE		
058	BRICK	100	sqm	BRICK		
059	WOOD	100	sqm	WOOD		
060	GLASS	100	sqm	GLASS		
061	ROOFING	100	sqm	ROOFING		
062	PAINT	100	sqm	PAINT		
063	FINISH	100	sqm	FINISH		
064	GLAZING	100	sqm	GLAZING		
065	CONCRETE	100	sqm	CONCRETE		
066	BRICK	100	sqm	BRICK		
067	WOOD	100	sqm	WOOD		
068	GLASS	100	sqm	GLASS		
069	ROOFING	100	sqm	ROOFING		
070	PAINT	100	sqm	PAINT		
071	FINISH	100	sqm	FINISH		
072	GLAZING	100	sqm	GLAZING		
073	CONCRETE	100	sqm	CONCRETE		
074	BRICK	100	sqm	BRICK		
075	WOOD	100	sqm	WOOD		
076	GLASS	100	sqm	GLASS		
077	ROOFING	100	sqm	ROOFING		
078	PAINT	100	sqm	PAINT		
079	FINISH	100	sqm	FINISH		
080	GLAZING	100	sqm	GLAZING		
081	CONCRETE	100	sqm	CONCRETE		
082	BRICK	100	sqm	BRICK		
083	WOOD	100	sqm	WOOD		
084	GLASS	100	sqm	GLASS		
085	ROOFING	100	sqm	ROOFING		
086	PAINT	100	sqm	PAINT		
087	FINISH	100	sqm	FINISH		
088	GLAZING	100	sqm	GLAZING		
089	CONCRETE	100	sqm	CONCRETE		
090	BRICK	100	sqm	BRICK		
091	WOOD	100	sqm	WOOD		
092	GLASS	100	sqm	GLASS		
093	ROOFING	100	sqm	ROOFING		
094	PAINT	100	sqm	PAINT		
095	FINISH	100	sqm	FINISH		
096	GLAZING	100	sqm	GLAZING		
097	CONCRETE	100	sqm	CONCRETE		
098	BRICK	100	sqm	BRICK		
099	WOOD	100	sqm	WOOD		
100	GLASS	100	sqm	GLASS		



E1 EXTERIOR ELEVATION EAST
SCALE 1/4"=1'-0"



E2 EXTERIOR ELEVATION SOUTH
SCALE 1/4"=1'-0"



Crystal Key Design Studio
210 King St E, Unit 2, Toronto, ON
416-955-3234
100051758@student.georgian.ca



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NO. REVISIONS DATE

THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS ON SITE AND NOTIFY ANY DISCREPANCIES TO THE DESIGNER BEFORE PROCEEDING WITH THE WORK. ALL DIMENSIONS ARE PROPERTY OF THE DESIGNER AND MUST BE RETURNED UPON COMPLETION OF THE PROJECT. DO NOT SCALE DRAWINGS.

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ONTARIO

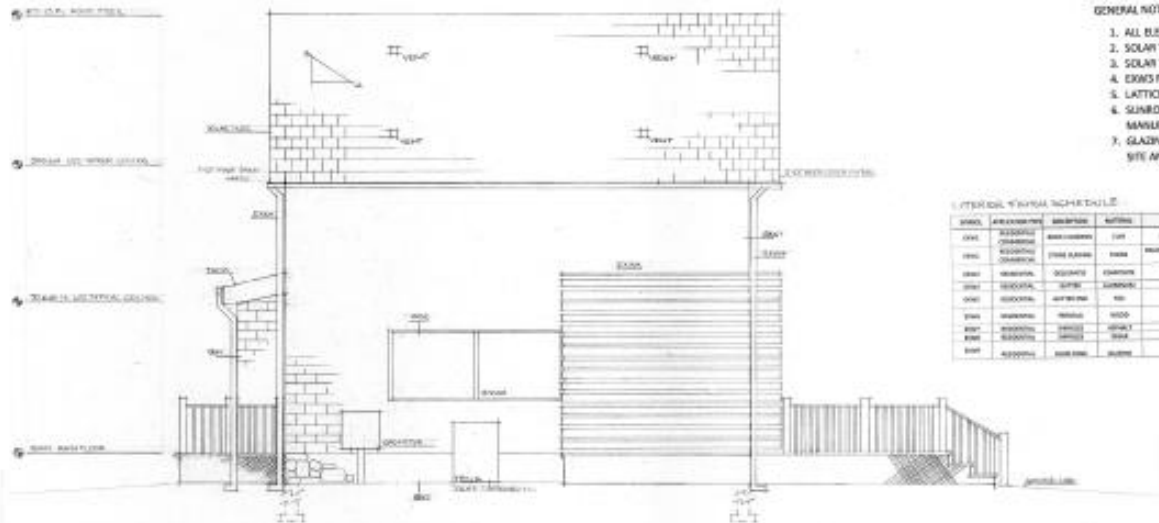
COURSE: IND 2000 SECTION: FALL2023

PROJECT:
MASSIVE SOLAR SUSTAINABLE
RESIDENTIAL DESIGN

DRAWING:
EXTERIOR ELEVATIONS (SOUTH AND EAST)

DESIGNED BY: CRYSTAL KEY DRAWING NO: 4.1.2
DATE: DEC 9 2023 SCALE: 1/4"=1'-0"

PROJECT NO.: #1 DRAWING NO.: A7



E-3 EXTERIOR ELEVATION WEST
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. ALL ELEVATIONS SHOWN IN ACCORDANCE WITH PROJECT NORTH.
2. SOLAR TILES INSTALLED ON WEST ROOF PITCH ONLY.
3. SOLAR TILES CHARGING CELL INSTALLED ON WEST WALL.
4. EDGEM FINISHING ON FRONT PATIO AND REAR DECK.
5. LATTICE TO BE INSTALLED UNDER FRONT PATIO AND REAR DECK.
6. SUNROOM MADE TO ORDER, CONSTRUCTED OFF-SITE AND DELIVERED BY MANUFACTURER TO BE INSTALLED BY CONTRACTOR.
7. GLAZING FOR TROMBE WALL CUSTOM ORDERED, WILL BE DELIVERED TO SITE AND INSTALLED BY MANUFACTURER.

EXTERIOR MATERIAL SCHEDULE

NO.	DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL	REMARKS
1001	BRICK	10000	SQ. FT.	1.50	15000.00	WEST WALL
1002	STONE	5000	SQ. FT.	3.00	15000.00	CHIMNEY
1003	SIDING	2000	SQ. FT.	2.00	4000.00	UPPER FLOOR
1004	GLAZING	100	SQ. FT.	100.00	10000.00	WEST WINDOW
1005	LATTICE	100	SQ. FT.	10.00	1000.00	UNDER PATIO
1006	FINISHING	100	SQ. FT.	10.00	1000.00	UNDER PATIO
1007	CONCRETE	100	SQ. FT.	10.00	1000.00	UNDER PATIO
1008	GLAZING	100	SQ. FT.	100.00	10000.00	TROMBE WALL
1009	CONCRETE	100	SQ. FT.	10.00	1000.00	TROMBE WALL
1010	GLAZING	100	SQ. FT.	100.00	10000.00	SUNROOM
1011	CONCRETE	100	SQ. FT.	10.00	1000.00	SUNROOM
1012	GLAZING	100	SQ. FT.	100.00	10000.00	SUNROOM
1013	CONCRETE	100	SQ. FT.	10.00	1000.00	SUNROOM
1014	GLAZING	100	SQ. FT.	100.00	10000.00	SUNROOM
1015	CONCRETE	100	SQ. FT.	10.00	1000.00	SUNROOM
1016	GLAZING	100	SQ. FT.	100.00	10000.00	SUNROOM
1017	CONCRETE	100	SQ. FT.	10.00	1000.00	SUNROOM
1018	GLAZING	100	SQ. FT.	100.00	10000.00	SUNROOM
1019	CONCRETE	100	SQ. FT.	10.00	1000.00	SUNROOM
1020	GLAZING	100	SQ. FT.	100.00	10000.00	SUNROOM



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ONTARIO

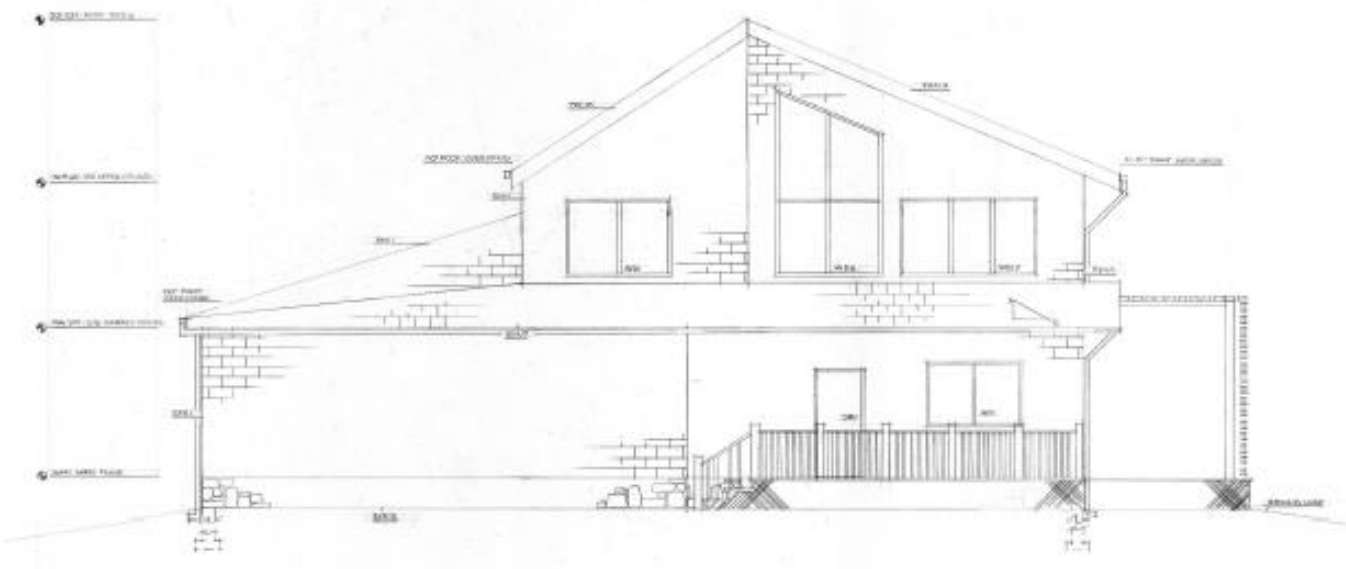
COURSE: BIDE 2000	SECTION: FALL 2023
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PROJECT:
PASSIVE SOLAR SUSTAINABLE
RESIDENTIAL DESIGN

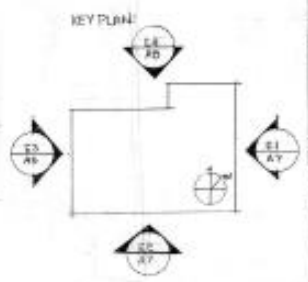
DRAWING:
EXTERIOR ELEVATIONS (NORTH AND WEST)

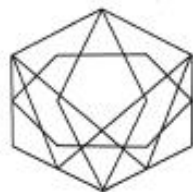
DESIGNED BY: CRYSTAL RAY	DRAWN BY: A.V.Z.
DATE: DEC 9 2024	SCALE: 1/4" = 1'-0"

#1 A8



E-4 EXTERIOR ELEVATION NORTH
SCALE: 1/4" = 1'-0"





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 ONTARIO

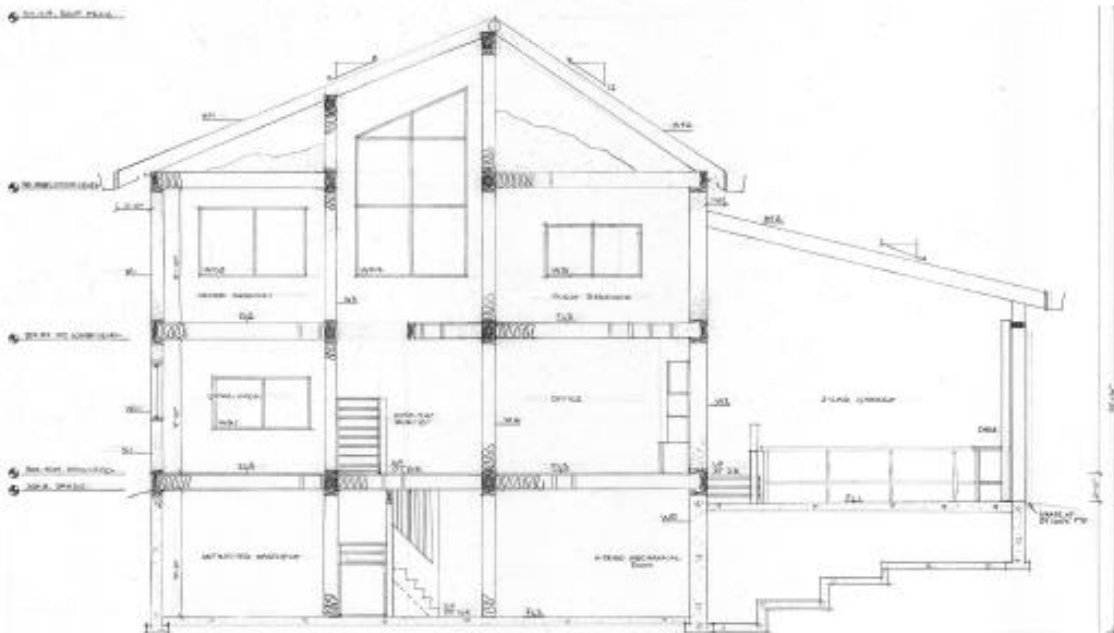
COURSE: RIDE 3000
 SECTION: FALL 2019

PROJECT:
 PASSIVE SOLAR SUSTAINABLE
 RESIDENTIAL DESIGN

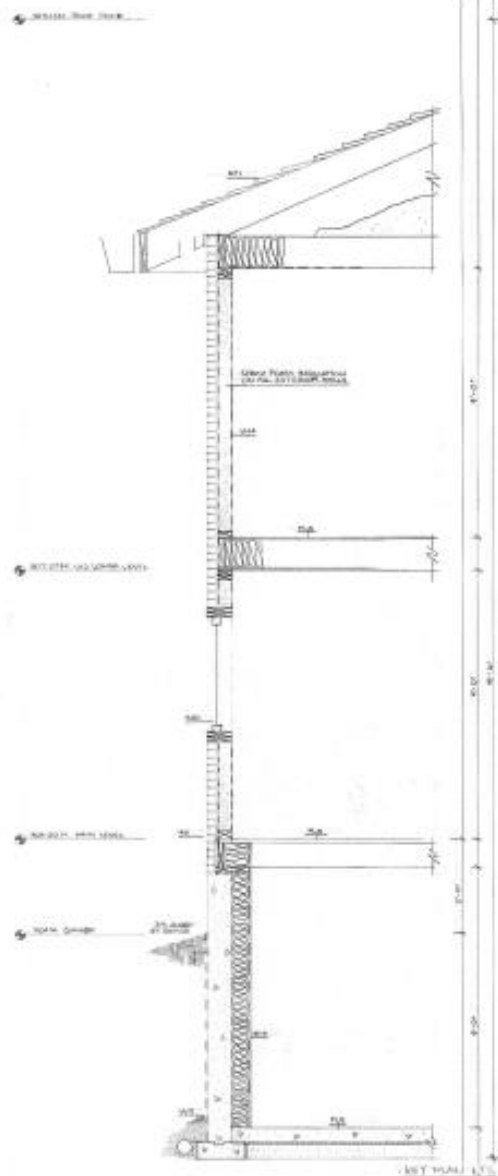
DRAWING:
 BUILDING SECTIONS AND DETAILS

DRAWN BY: CRISTAL BOY
 CHECKED BY: A. U.Z.
 DATE: DEC 9 2018
 SCALE: 1/8"=1'-0"

PROJECT NO.:
 DRAWING NO.:
#1 A9

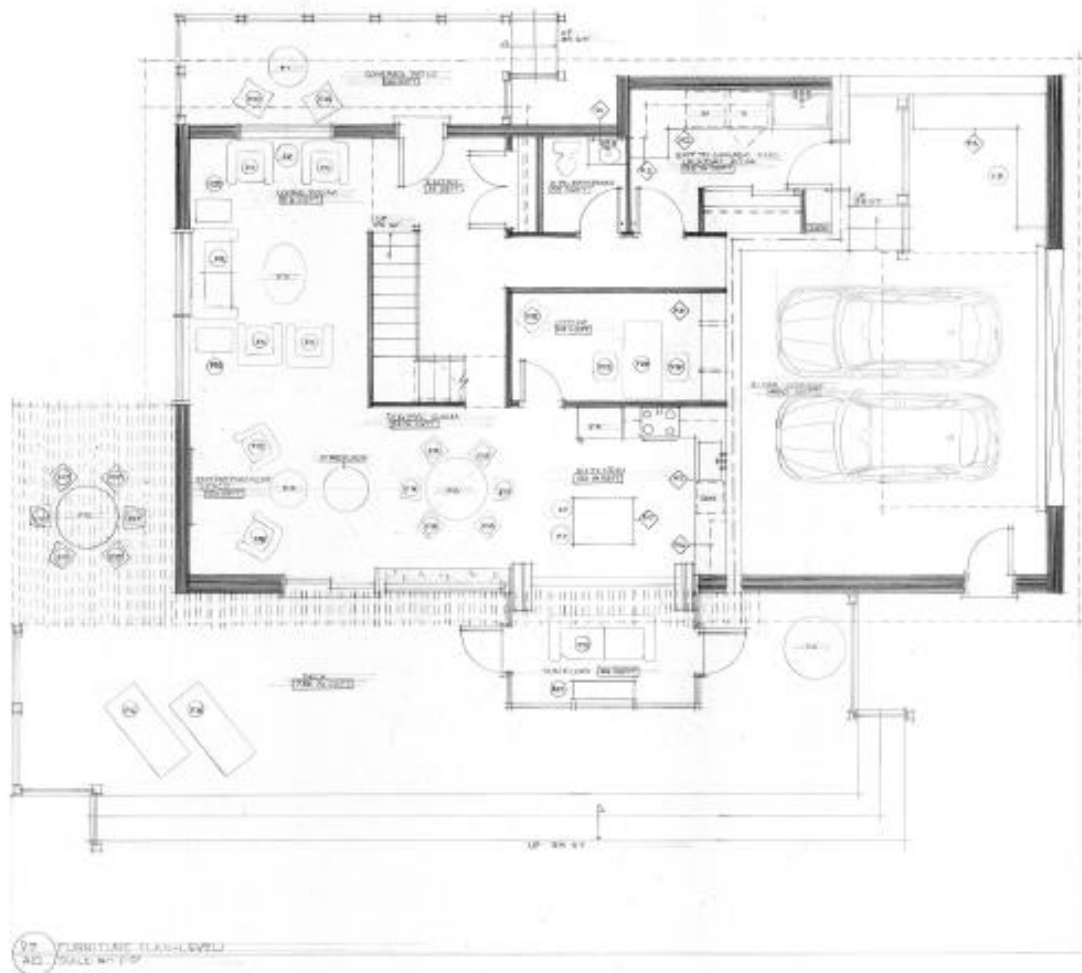


20
 21
 BUILDING SECTION
 WALL 10'-0"



20
 21
 DETAILED WALL SECTION
 SCALE 1/8"=1'-0"





FURNITURE PLAN-LEVEL
SCALE: 1/4" = 1'-0"

FURNITURE LEGEND	
SYMBOL	DESCRIPTION
F1	BARO TABLE
F2	LIVING ROOM SIDE TABLE 1
F3	LIVING ROOM COFFEE TABLE
F4	ENTERTAINMENT SPACE TABLE
F5	DECK TABLE
F6	KITCHEN TABLE
F7	KITCHEN ISLAND STOOL
F8	DECK LOUNGER
F9	WORKSHOP STOOL
F10	BARO CHAIRS
F11	LIVING ROOM ARMCHAIR
F12	LIVING ROOM SOFA
F13	ENTERTAINMENT SPACE CHAIR
F14	DINING ROOM CHAIR
F15	SUNROOM SOFA
F16	DECK RECLINER
F17	DECK CHAIR
F18	OFFICE GUEST CHAIR
F19	OFFICE CHAIR
F20	LIVING ROOM SIDE TABLE
F21	SUNROOM TABLE
F22	OFFICE DESK
F23	MASTER BEDROOM ARMCHAIR CHAIR
F24	MASTER BEDROOM TABLE
F25	MASTER BEDROOM SEITABLE
F26	MASTER BEDROOM BED
F27	BENCH
F28	GUEST BEDROOM BED
F29	GUEST BEDROOM SEITABLE



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COURSE: INCE 2000	SECTION: FALL 2015
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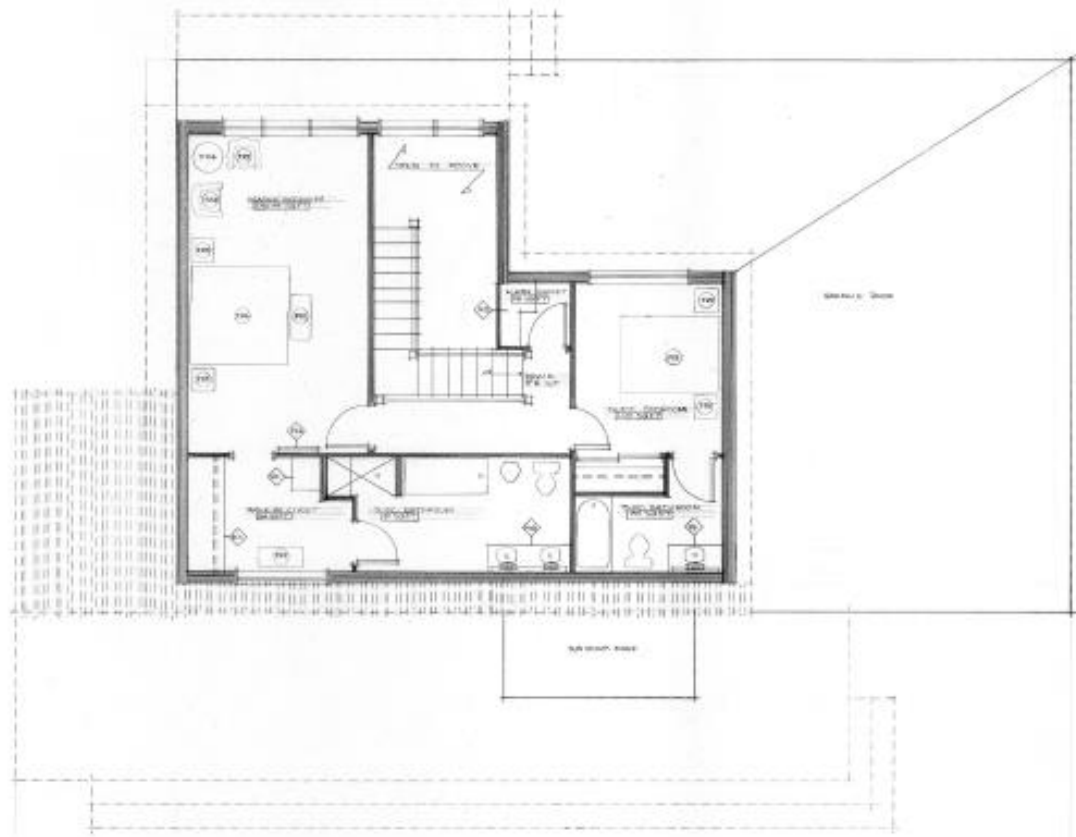
PROJECT:
PASSIVE SOLAR SUSTAINABLE
RESIDENTIAL DESIGN

DRAWING:
FURNITURE PLAN - LEVEL 1

DESIGNED BY: CRYSTAL ROY	DRAWN BY: S.J.S.
DATE: DEC 9 2015	SCALE: 3/4" = 1'-0"
PROJECT NO.:	DRAWING NO.:



F14 DINING ROOM CHAIR F26 MASTER BEDROOM BED F11 LIVING ROOM ARMCHAIR



F2 FURNITURE PLAN LEVEL 2
A11



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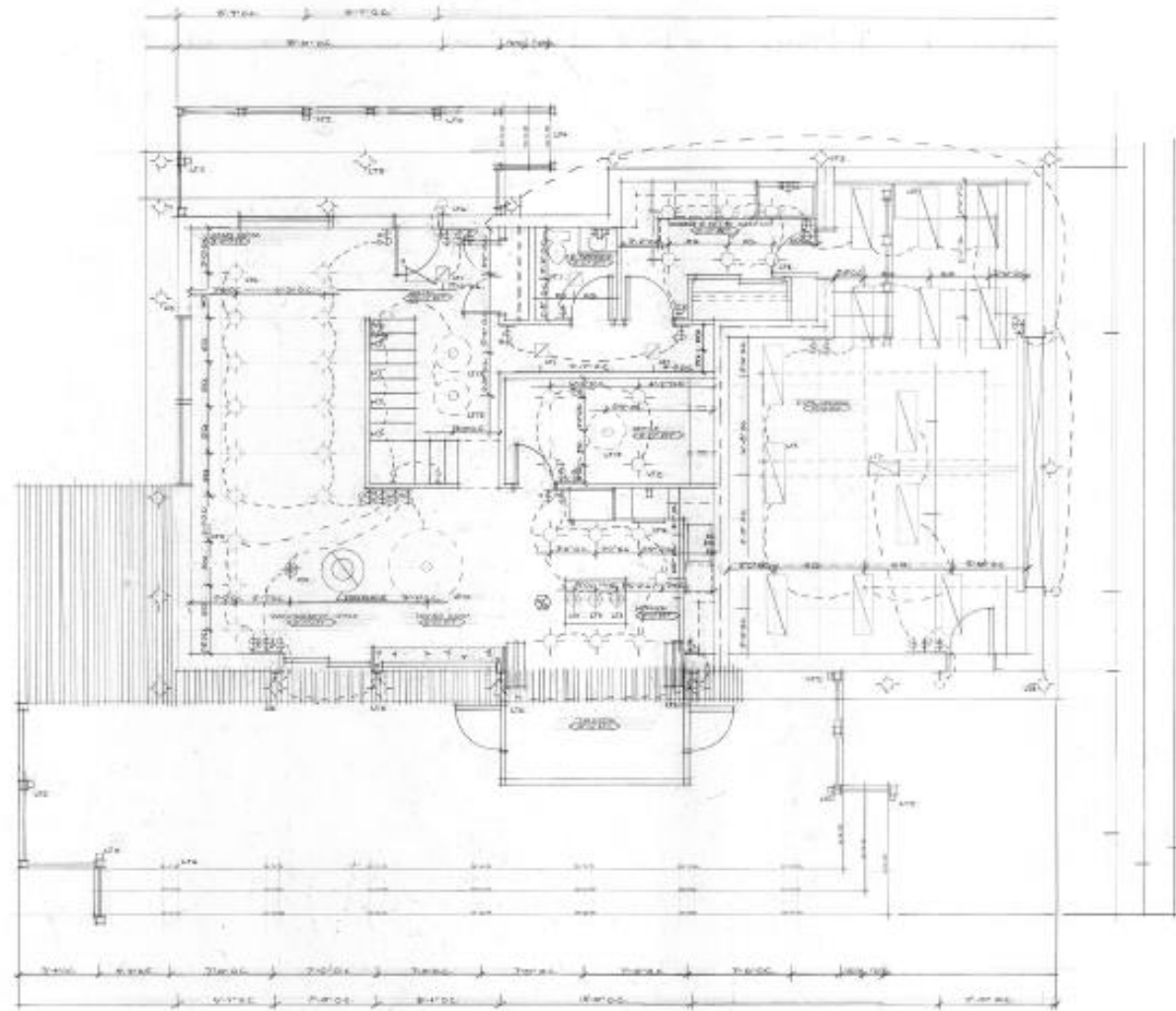
COURSE: INDX 2000	SECTION: FALL2015
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PROJECT:
PASSIVE SOLAR SUSTAINABLE
RESIDENTIAL DESIGN

DRAWING:
FURNITURE PLAN - LEVEL 2

DESIGNED BY CRYSTAL ROW	CHECKED BY M.M.
DATE DEC 8 2015	SCALE 1/4" = 1'-0"

#1 **A11**



LIGHTING LEGEND

SYMBOL	DESCRIPTION
	3 WAY POLE SWITCH
	DIMMER SWITCH
	GANGED SWITCH
	"N" INDICATES AIT
	SINGLE POLE SWITCH
	SMOKE DETECTOR/CARBON MONOXIDE ALARM
	SMOKE DETECTOR

- GENERAL NOTES:**
1. THE CONTRACTOR SHALL ORDER ALL LIGHTING FIXTURES IMMEDIATELY UPON RECEIVING THE CONSTRUCTION CONTRACT.
 2. THE CONTRACTOR SHALL ENSURE THAT ALL NEW LIGHT FIXTURES ARE IN WORKING ORDER PRIOR TO BEING DAMAGED TO WORKS.
 3. ALL NEW PLATES TO BE AT 4" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.
 4. ALL FLOOR FRET, LAMINATE AREA AND EXTERIOR FIXTURES TO BE ON CIRCUIT.
 5. ALL LVD TO VENT TO THE OUTSIDE AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 6. ALL DOWN PLATES TO BE 3/16" DIA. 1/2" AND ALL RECEPTS BLACK (BLACK 50).
 7. ALL LVD RECESSED LIGHTING TO BE INSTALLED AS INDICATED IN LAMINATE ROOM, NOT TO THE GARAGE, OFFICE, KITCHEN, LIVING ROOM, BATH, BEDROOM, MASTER BEDROOM WALK-IN CLOSET, AND LAUNDRY ROOMS.
 8. ALL LVD RECESSED LIGHTING TO BE INSTALLED AS INDICATED ON THIS PLAN.
 9. ALL LVD UNDER STEP LIGHTING TO BE INSTALLED AS INDICATED ON FRONT PORCH AND REAR PORCH.
 10. ALL LVD OUTDOOR LIGHTING TO BE INSTALLED AS INDICATED IN GARAGE.
 11. ALL LVD OUTDOOR LIGHTING TO BE INSTALLED AS INDICATED IN GARAGE.



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NO.	REVISIONS	DATE

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 ONTARIO

COURSE:
 INDE 3000

SECTION:
 FALL 2019

PROJECT:
 PASSIVE SOLAR SUSTAINABLE
 RESIDENTIAL DESIGN

DRAWING:
 LIGHTING PLAN - LEVEL 1

DESIGNED BY: CRYSTAL REY
 DATE: DEC 9 2019
 PROJECT NO.: 100051278

CHECKED BY: A.L.S.
 SCALE: 1/8" = 1'-0"
 DRAWING NO.: 100051278

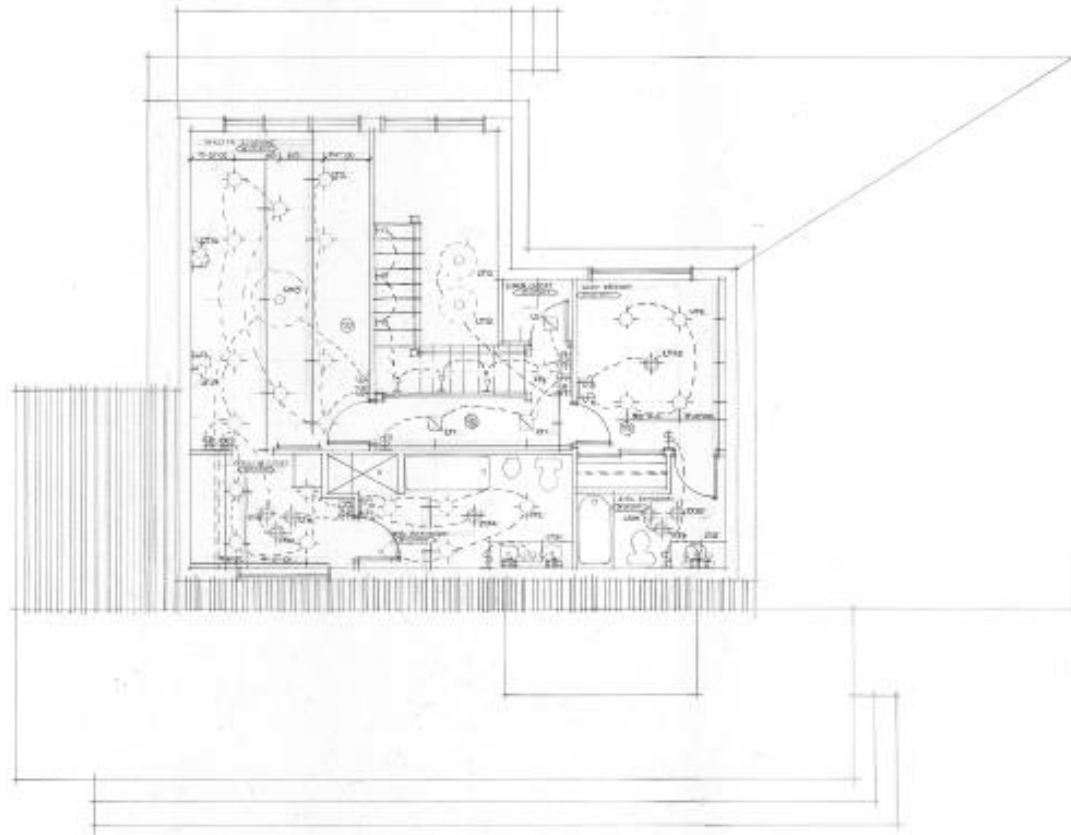
#1 A12

12 LIGHTING PLAN LEVEL 1
 12/9/19 10:11:37

SYMBOL	QTY	DESCRIPTION	MANUFACTURE	MODEL	FINISHING LIGHT	QTY	DESCRIPTION	MANUFACTURE	MODEL	FINISHING LIGHT	QTY	DESCRIPTION	MANUFACTURE	MODEL	FINISHING LIGHT
	1	3 WAY POLE SWITCH	LEGRAND	1000000000	1000000000	1	3 WAY POLE SWITCH	LEGRAND	1000000000	1000000000	1	3 WAY POLE SWITCH	LEGRAND	1000000000	1000000000
	1	DIMMER SWITCH	LEGRAND	1000000000	1000000000	1	DIMMER SWITCH	LEGRAND	1000000000	1000000000	1	DIMMER SWITCH	LEGRAND	1000000000	1000000000
	1	GANGED SWITCH	LEGRAND	1000000000	1000000000	1	GANGED SWITCH	LEGRAND	1000000000	1000000000	1	GANGED SWITCH	LEGRAND	1000000000	1000000000
	1	"N" INDICATES AIT				1	"N" INDICATES AIT				1	"N" INDICATES AIT			
	1	SINGLE POLE SWITCH	LEGRAND	1000000000	1000000000	1	SINGLE POLE SWITCH	LEGRAND	1000000000	1000000000	1	SINGLE POLE SWITCH	LEGRAND	1000000000	1000000000
	1	SMOKE DETECTOR/CARBON MONOXIDE ALARM	LEGRAND	1000000000	1000000000	1	SMOKE DETECTOR/CARBON MONOXIDE ALARM	LEGRAND	1000000000	1000000000	1	SMOKE DETECTOR/CARBON MONOXIDE ALARM	LEGRAND	1000000000	1000000000
	1	SMOKE DETECTOR	LEGRAND	1000000000	1000000000	1	SMOKE DETECTOR	LEGRAND	1000000000	1000000000	1	SMOKE DETECTOR	LEGRAND	1000000000	1000000000



L20 PENDANT L20 WALL MOUNT L20 PENDANT



2.00 LIGHTING PLAN - LEVEL 2
A13 SCALE: 1/4" = 1'-0"

SYMBOL	TYPE	DESCRIPTION	MANUFACTURER	MODEL	WATTAGE	VOLTS	PHASE	BEAM ANGLE	FOOT COUNTS	QTY.	REMARKS
⊙	RECESSED	1x1	OSRAM	OSRAM	100W	120V	30°	100	100	1	100% 100W/2700K
⊙	RECESSED	2x2	OSRAM	OSRAM	100W	120V	30°	400	400	1	100% 100W/2700K
⊙	RECESSED	2x2	OSRAM	OSRAM	100W	120V	30°	400	400	1	100% 100W/4000K
⊙	RECESSED	1x4	OSRAM	OSRAM	100W	120V	30°	100	100	1	100% 100W/2700K
⊙	RECESSED	1x4	OSRAM	OSRAM	100W	120V	30°	100	100	1	100% 100W/4000K
⊙	RECESSED	1x4	OSRAM	OSRAM	100W	120V	30°	100	100	1	100% 100W/2700K
⊙	RECESSED	1x4	OSRAM	OSRAM	100W	120V	30°	100	100	1	100% 100W/4000K
⊙	RECESSED	1x4	OSRAM	OSRAM	100W	120V	30°	100	100	1	100% 100W/2700K
⊙	RECESSED	1x4	OSRAM	OSRAM	100W	120V	30°	100	100	1	100% 100W/4000K
⊙	RECESSED	1x4	OSRAM	OSRAM	100W	120V	30°	100	100	1	100% 100W/2700K
⊙	RECESSED	1x4	OSRAM	OSRAM	100W	120V	30°	100	100	1	100% 100W/4000K



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310 King St. E. Unit 2, Toronto, On
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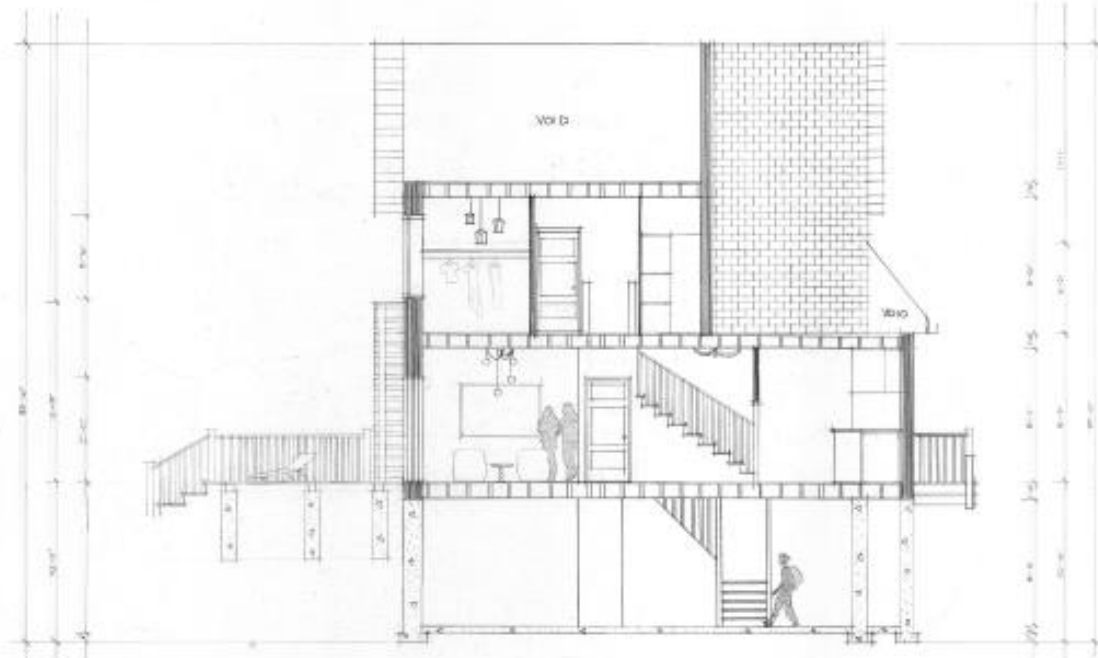
COURSE: INDC 2000	SECTION: FALL 2019
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PROJECT:
PASSIVE SOLAR SUSTAINABLE
RESIDENTIAL DESIGN

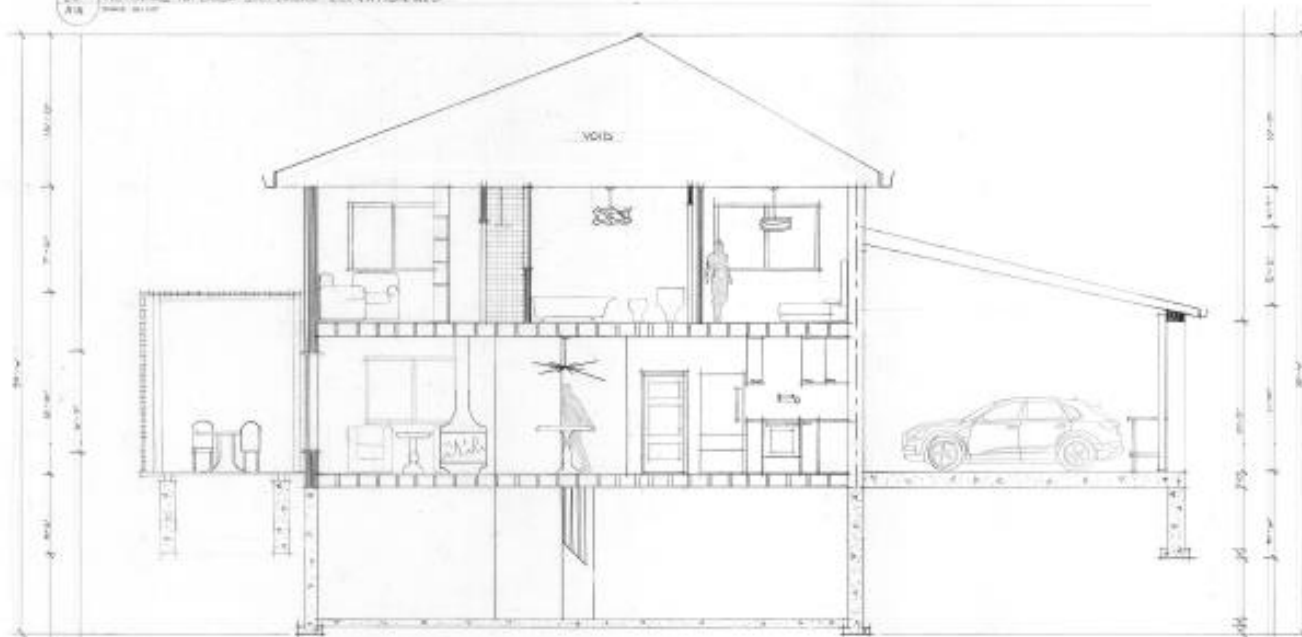
DRAWING:
LIGHTING PLAN - LEVEL 2

DESIGN BY: CRYSTAL ROW	DESIGNED BY: S.S. M.
DATE: DEC 9 2018	SCALE: 1/4" = 1'-0"

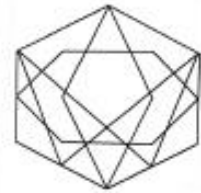
#1 **A13**



23. FICTITIOUS INTERIOR SECTIONAL ELEVATION WEST
DATE: 05/10/19



24. FICTITIOUS INTERIOR SECTIONAL ELEVATION NORTH
DATE: 05/10/19



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416-555-4284
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BARRIE, ONTARIO, OWEN SOUND,
ONTARIO

COURSE:

INDS 2000

SECTION:

FALL2019

PROJECT:

PASSIVE SOLAR SUSTAINABLE
RESIDENTIAL DESIGN

DRAWING:

FICTITIOUS INTERIOR SECTIONAL ELEVATIONS

DRAWN BY:

CRYSTAL AIS

CHECKED BY:

J. L.

DATE:

DEC 5 2019

SCALE:

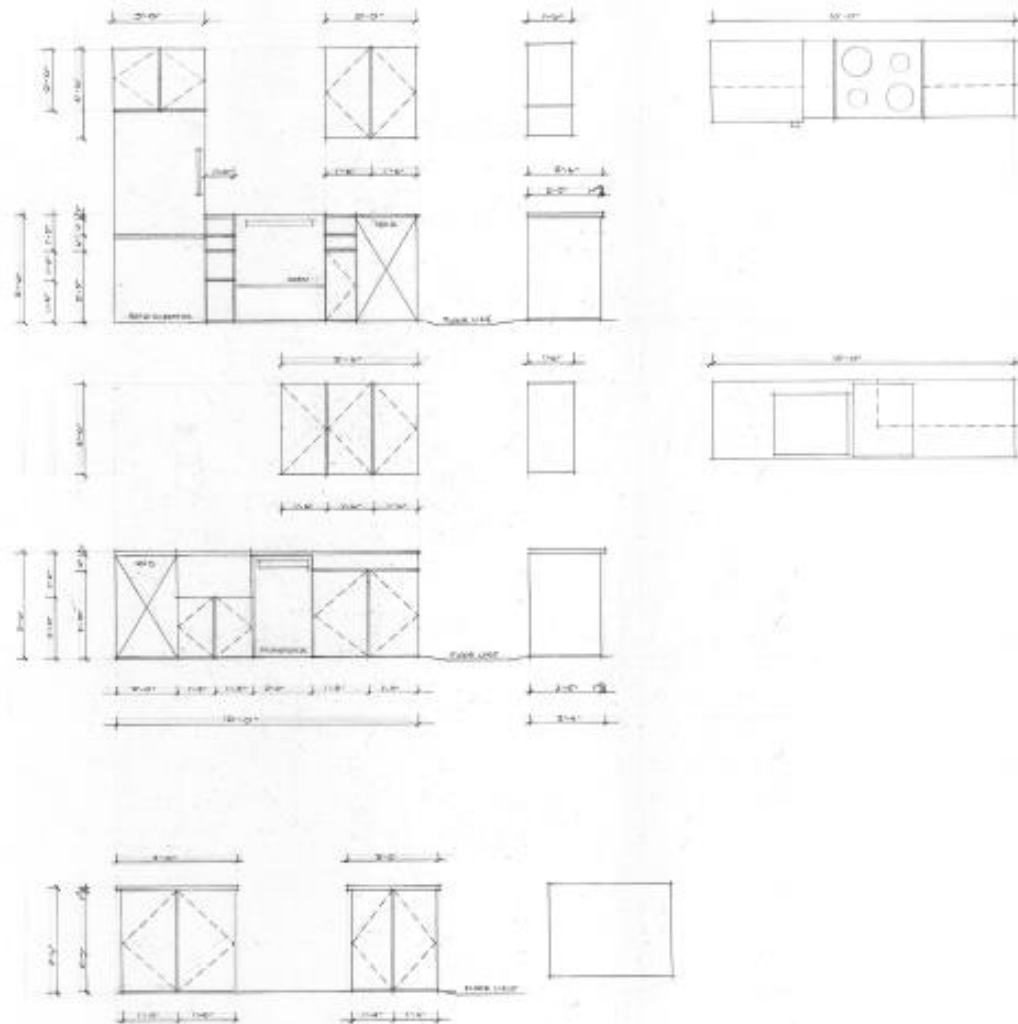
1/4" = 1'-0"

PROJECT NO.:

10003278

#1

A14



#1 MILLWORK - FOOD PREPARATION
DATE: 12/1/19



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210 King St S. Unit 2, Toronto, On
416-595-3254
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ONTARIO

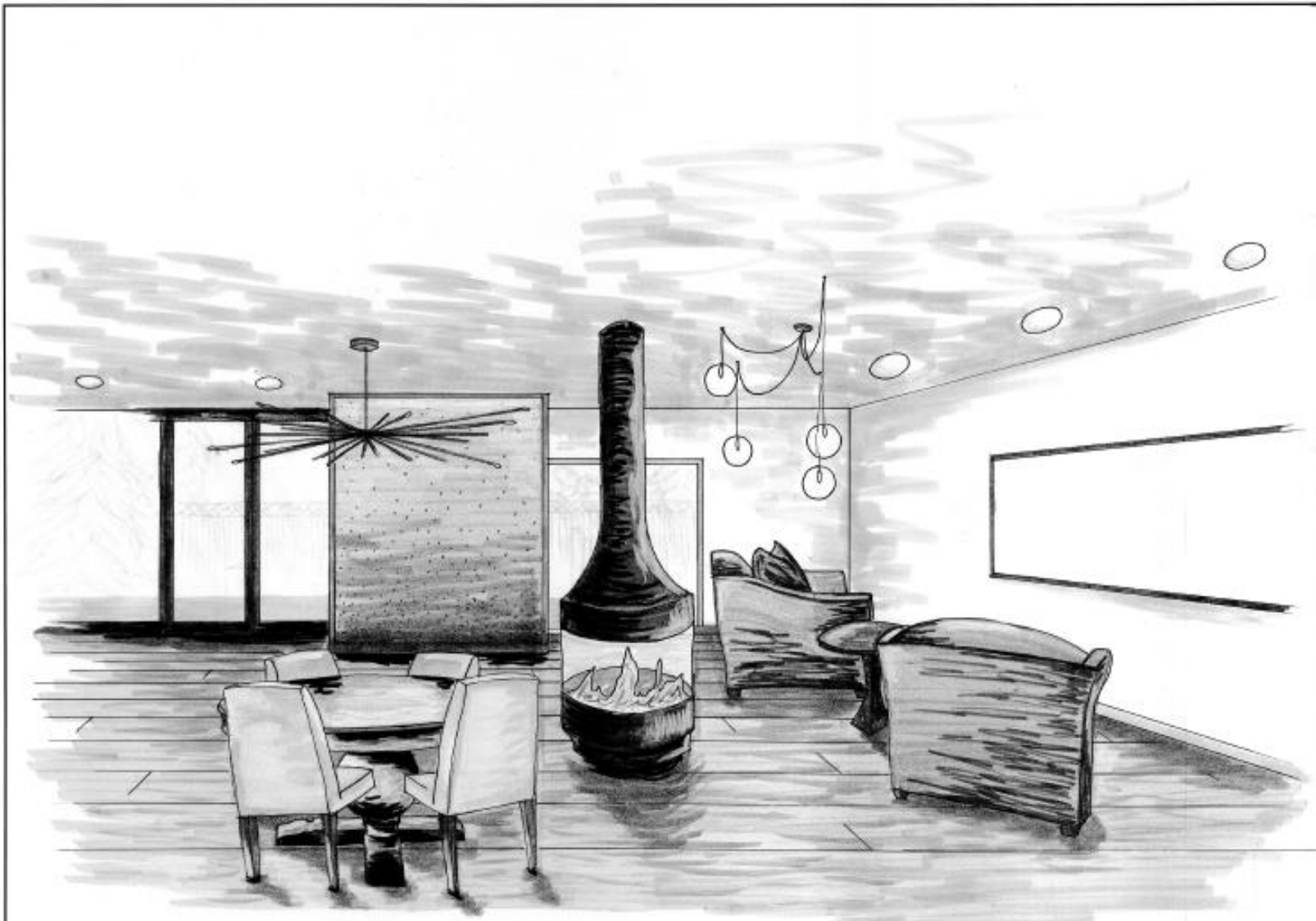
COURSE: ENR 2000	SECTION: FALL 2019
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PROJECT:
PASSIVE SOLAR SUSTAINABLE
RESIDENTIAL DESIGN

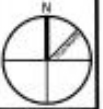
DRAWING:
MILLWORK - FOOD PREPARATION

DESIGNED BY CRYSTAL ROY	DRAWN BY A.V.Z.
DATE DEC 9 2019	SCALE 1/4" = 1'-0"

#1 **A15**



Crystal Ray Design Studio
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 BARRIE, ORILLIA, OWEN SOUND,
 ONTARIO

COURSE:
 INDE 2000

SECTION:
 FALL 2010

PROJECT:

POSITIVE SOLAR SUSTAINABLE
 RESIDENTIAL DESIGN

DRAWING:

INTERIOR PERSPECTIVE

DRAWN BY:
 CRYSTAL RAY

APPROVED BY:
 J. S.J.

DATE:
 DEC 9 2010

SCALE:
 1/4" = 1'-0"

PROJECT NO.:

DRAWING NO.:

#1

A16