

ROYAL CANADIAN MOUNTED POLICE INTERIOR / EXTERIOR RENOVATIONS FALCON LAKE, MANITOBA CONSTRUCTION

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DRAWING LIST

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- A0.0 TITLE PAGE
- A1.0 ELEVATIONS - DEMOLITION
- A1.1 ELEVATIONS - DEMOLITION
- A2.0 MAIN FLOOR PLAN
- A2.1 BASEMENT FLOOR PLAN
- A3.0 ELEVATIONS
- A3.1 ELEVATIONS
- A4.0 MAIN FLOOR PLAN - FLOORING
- A5.0 DETAIL OF WALL & EAVES
- A5.1 DETAIL OF MILLWORK
- A5.2 KITCHEN ELEVATION/SECTION
- A8.0 WINDOW & ROOM SCHEDULE

- M1.0 MAIN FLOOR MECHANICAL PLAN
- M1.1 BASEMENT MECHANICAL PLAN
- M2.0 MAIN FLOOR HVAC PLAN
- M2.1 BASEMENT HVAC PLAN
- M2.2 SPECIFICATIONS

- E1.0 ELECTRICAL PLAN (MAIN FLOOR)
- E1.1 ELECTRICAL PLAN (BASEMENT)

CONSULTANT LIST

PRIVE CONSULTANT:

MECHANICAL ENGINEERING:

DRAWING SYMBOLS

① NUMBERED NOTE
 10 WINDOW NUMBER
 10 WALL / ROOF IDENTIFIER
 10 DOOR NUMBER
 X-111 DETAIL SECTION
 X-111 DETAIL NUMBER
 X-111 SHEET SECTION LOCATED
 X-111 ELEVATION IDENTIFIER
 X-111 DETAIL NUMBER
 X-111 SHEET ELEVATION LOCATED
 100 DETAIL MARKER
 (SEE SPECIFICATION BOOK)
 X-111 GRID LINES
 100 DETAIL-MARKER
 100 ELEVATION MARKER
 100 ROOM NUMBER MARKER
 X-111 DETAIL IDENTIFICATION
 X-111 DETAIL NUMBER
 X-111 CURRENT SHEET
 X-111 PAGE ORIENTATION

ABBREVIATION LIST

ACOUSTIC	ACST	DRYWALL	DYW	LAVATORY	LAV	ROOM	RM
ADHESIVE	ADH	EACH	EA	LAY-IN ACOUSTIC TILE	LAT	ROUGH OPENING	RO
ADJUSTABLE	ADJ	EACH WAY	EW	LEFT HAND	LH	RUBBER	RB
AGGREGATE	AGGR	EAST	E	LEFT HAND REVERSE	LHR	RVT	RESILIENT SHEET FLOORING
AIR VAPOUR BARRIER	AVB	ELECTRICAL	ELEC	LENGTH	LG	SCHEDULE	SCHED
ALTERNATE	ALT	ELEVATION	EL	LIGHT	LT	SCREW	SCR
ALUMINUM	ALUM	ELEVATOR	ELEV	LOUVER	LVR	SECTION	SECT
APARTMENT	APT	EPOXY	EP	MANUFACTURE	MFG	SELF ADHESIVE	SA
APPROXIMATE	APPROX	EQUAL	EQ	MARK	MK	SHEATHING	SHTG
ARCHITECTURE	ARCH	EQUALLY SPACED	EQ SP	MASONRY OPENING	MO	SHEET	SHT
BEAM	BM	EQUIPMENT	EQUIP	MATERIAL	MAT	SHEET VINYL	SV
BENCH MARK	BM	EXISTING	EXIST	MECHANICAL	MECH	SIMILAR	SIM
BETWEEN	BTWN	EXPANSION	EXP	MINIMUM	MIN	SOLID CORE	SC
BLOCK	BLK	EXTERIOR	EXT	MISCELLANEOUS	MISC	SOUTH	S
BOARD	BD	EXTRUDE	EXTR	NEAR FACE	NF	SPECIFICATION	SPEC
BOTH SIDES	BS	FACE TO FACE	FF	NEAR SIDE	NS	SPRUCE	SPR
BOTH WAYS	BW	FAR SIDE	FS	NORTH	N	SPRUCE, PINE OR FIR	SP/P
BOTTOM	BOT	FIBREBOARD	FBRD	NOT APPLICABLE	N/A	STAIN	ST
BUILDING	BLDG	FINISH	FIN	NOT IN CONTRACT	NIC	STAINLESS STEEL	SS
CARPET	CPT	FLOOR	FL	NOT TO SCALE	NTS	STANDARD	STD
CAST IRON	CI	FLOOR DRAIN	FD	NUMBER	NO	STEEL	STL
CEILING	CLG	FLOORING	FLG	ON CENTRE	OC	STRUCTURAL	STRUCT
CEMENT BOARD	CEB	FLOURESCENT	FLR	CUT TO CUT	CO	SQUARE FEET	SF
CENTRE	CTR	FOOTING	FTG	OUTSIDE DIAMETER	OD	TEMPORARY	TEMP
CENTRE TO CENTRE	C2C	FOUNDATION	FDN	OUTSIDE FACE	OF	THROUGH	THRU
CERAMIC TILE	CT	FULL SIZE	FS	OVERHEAD	OH	TO MATCH EXISTING	TME
CIRCLE	CIRC	GALVANIZED	GALV	PAINT	PT	TONGUE AND GROOVE	T&G
CLEAR	CLR	GALVANIZED IRON	GI	PAINTED	PTD	TOP AND BOTTOM	T&B
COLUMN	COL	GAUGE	GA	PARTITION	PTN	TOP OF	TO
COMPLETE WITH	CMW	GLASS	GL	PLYWOOD	PLYWD	TYPICAL	TYP
CONCRETE	CONC	HARDWARE	HDW	PRECAST	PC	UNDER SIDE	US
CONCRETE BLOCK	CBLK	HEIGHT	HGT	PRECAST CONCRETE	PC CONC	UNDERCUT	UCUT
CONSTRUCTION	CONST	HEXAGON	HEX	PREFABRICATION	PREFAB	URNAL	UR
CONTINUOUS	CONT	HOLLOW CORE	HC	PREFINISHED	PREFIN	VAPOUR BARRIER	VB
CONTROL JOINT	CJ	HOLLOW METAL	HM	PRESSED STEEL	PS	VERTICAL	VERT
COUNTERSINK	CSK	HORIZONTAL	HORIZ	QUANTITY	QTY	VINYL ASBESTOS TILE	VAT
COVERED SHEET VINYL	CSV	INCLUSIVE	INCL	QUARRY TILE	QT	VINYL COVE BASE	VCB
DETAIL	DTL	INSIDE DIAMETER	ID	RADIUS	R	VINYL TILE	VT
DEMOLISH	DEMO	INSIDE FACE	IF	RAINWATER LEADER	RWL	VINYL WALL COVERING	VWC
DIAGONAL	DIAG	INSULATE	INSUL	REFERENCE	REF	WATER CLOSET	WC

PROJECT TITLE
RCMP-FALCON LAKE HOUSE

SHEET TITLE
COVER PAGE

DATE
17-07-11

SCALE
AS NOTED

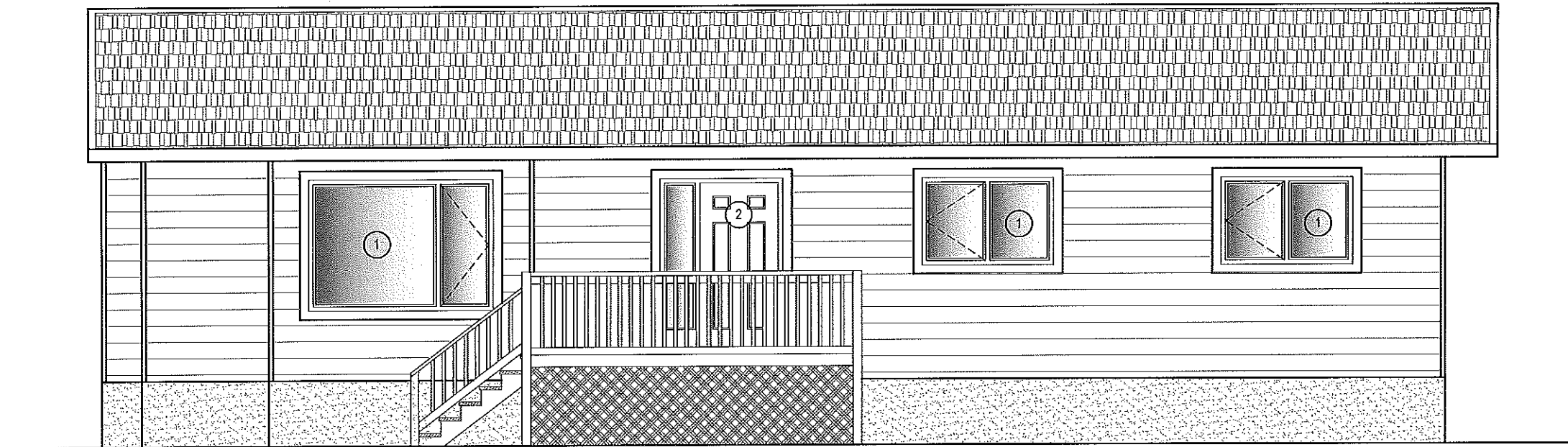
DRAWN BY
RQS

CHECKED BY
RS

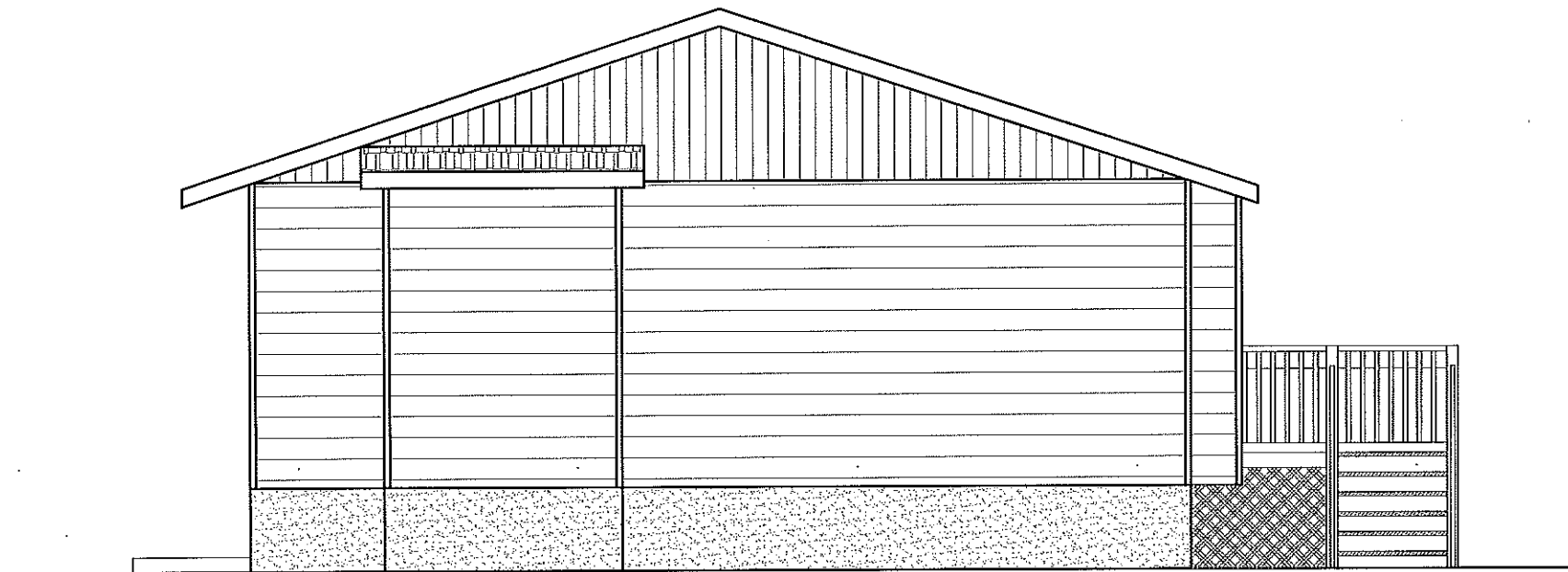
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A0.0

JOB NO.
17-037-01-11



1 FRONT ELEVATION
A1.0 SCALE: 3/16"=1'-0"

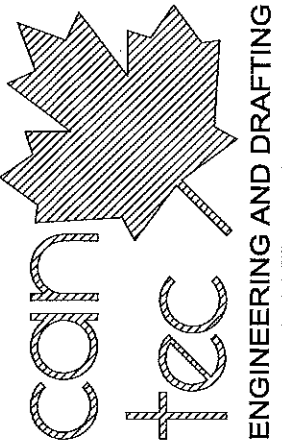


2 LEFT SIDE ELEVATION
A1.0 SCALE: 3/16"=1'-0"

DRAWING NOTES: #

1. REMOVE WINDOWS
2. REMOVE DOOR

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PROJECT TITLE RCMP-FALCON LAKE HOUSE

SHEET TITLE ELEVATIONS-DEMOLITION

DATE 17-07-11 SCALE AS NOTED DRAWN BY RQS CHECKED BY RS

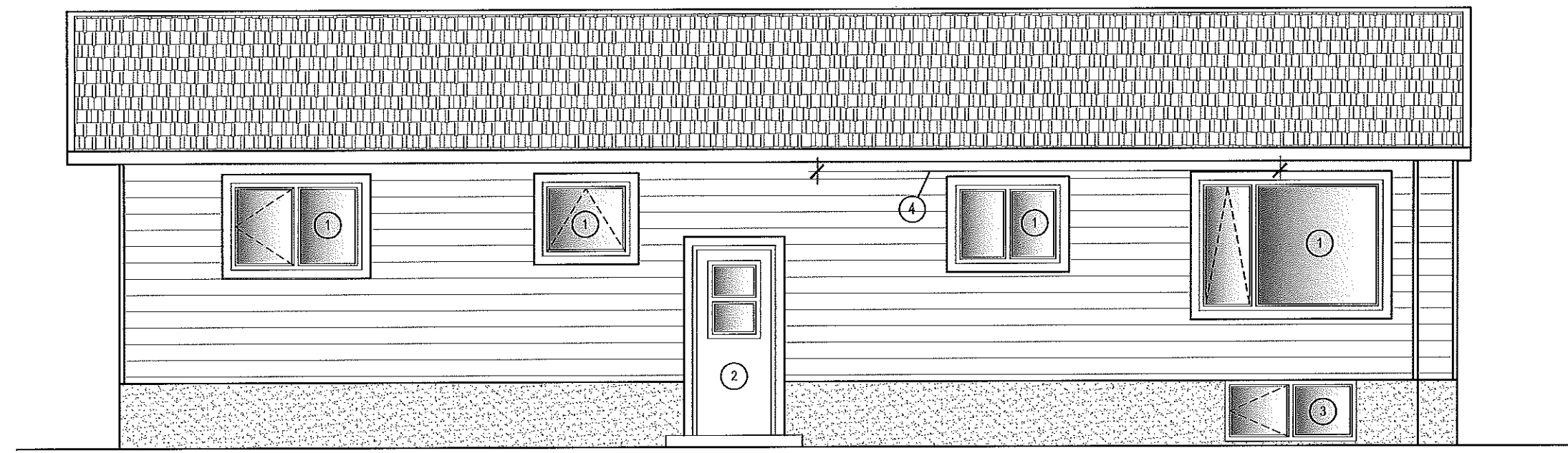
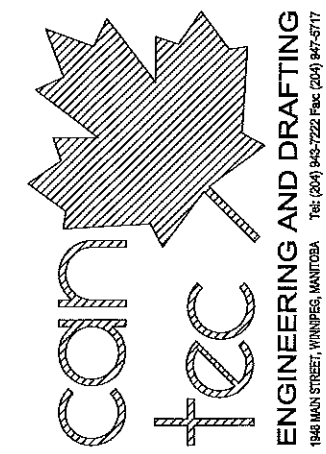
LOCATION 17 FALCON BV, FALCON LAKE, MB

REVISION NO. 01
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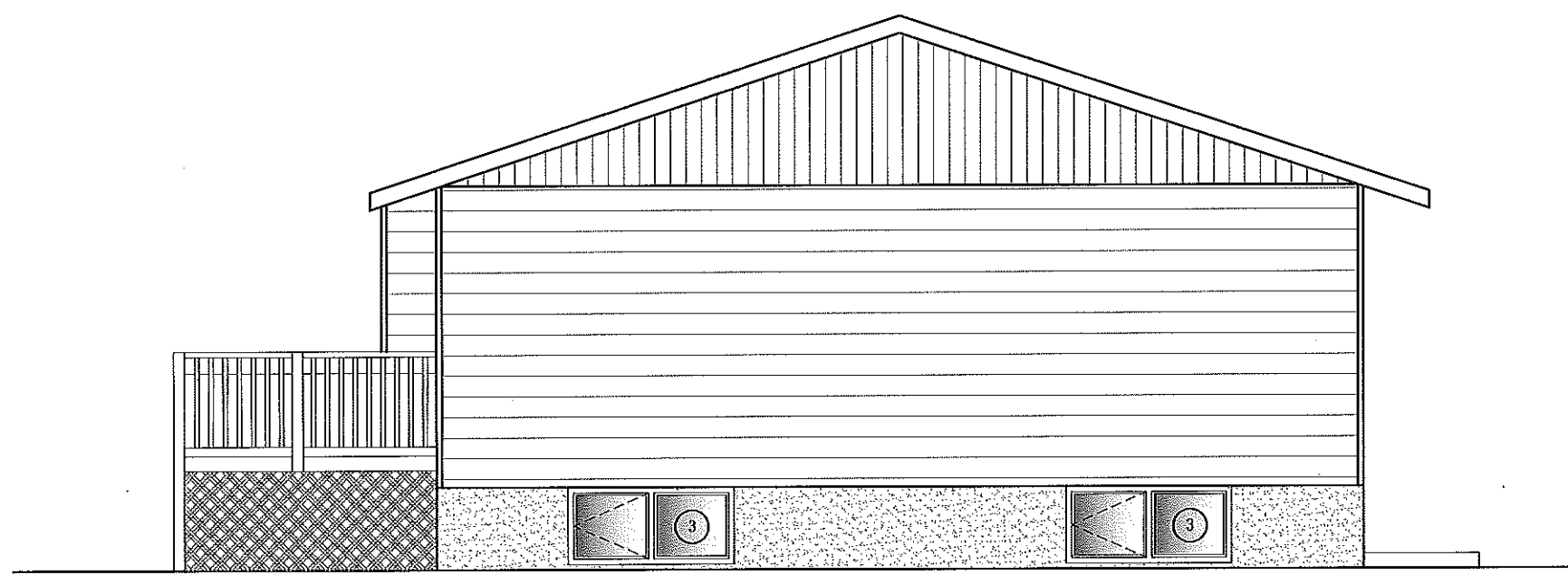
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1 REAR ELEVATION
 A1.1 SCALE: 3/16"=1'-0"



2 RIGHT SIDE ELEVATION
 A1.1 SCALE: 3/16"=1'-0"

- DRAWING NOTES: #
1. REMOVE WINDOWS
 2. REMOVE DOOR
 3. BASEMENT WINDOW TO REMAIN
 4. REMOVE DAMAGED SOFFIT APPROXIMATELY 25'-0"

PROJECT TITLE
RCMP-FALCON LAKE HOUSE

SHEET TITLE
ELEVATIONS-DEMOLITION

DATE
 17-07-11

SCALE
 AS NOTED

DRAWN BY
 RQS

CHECKED BY
 RS

LOCATION
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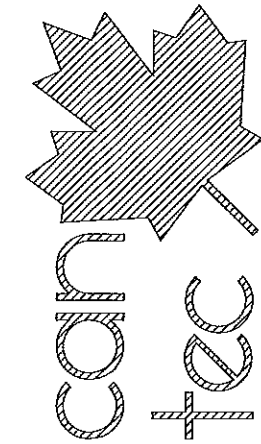
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A1.1

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DRAWING NOTES: (#)

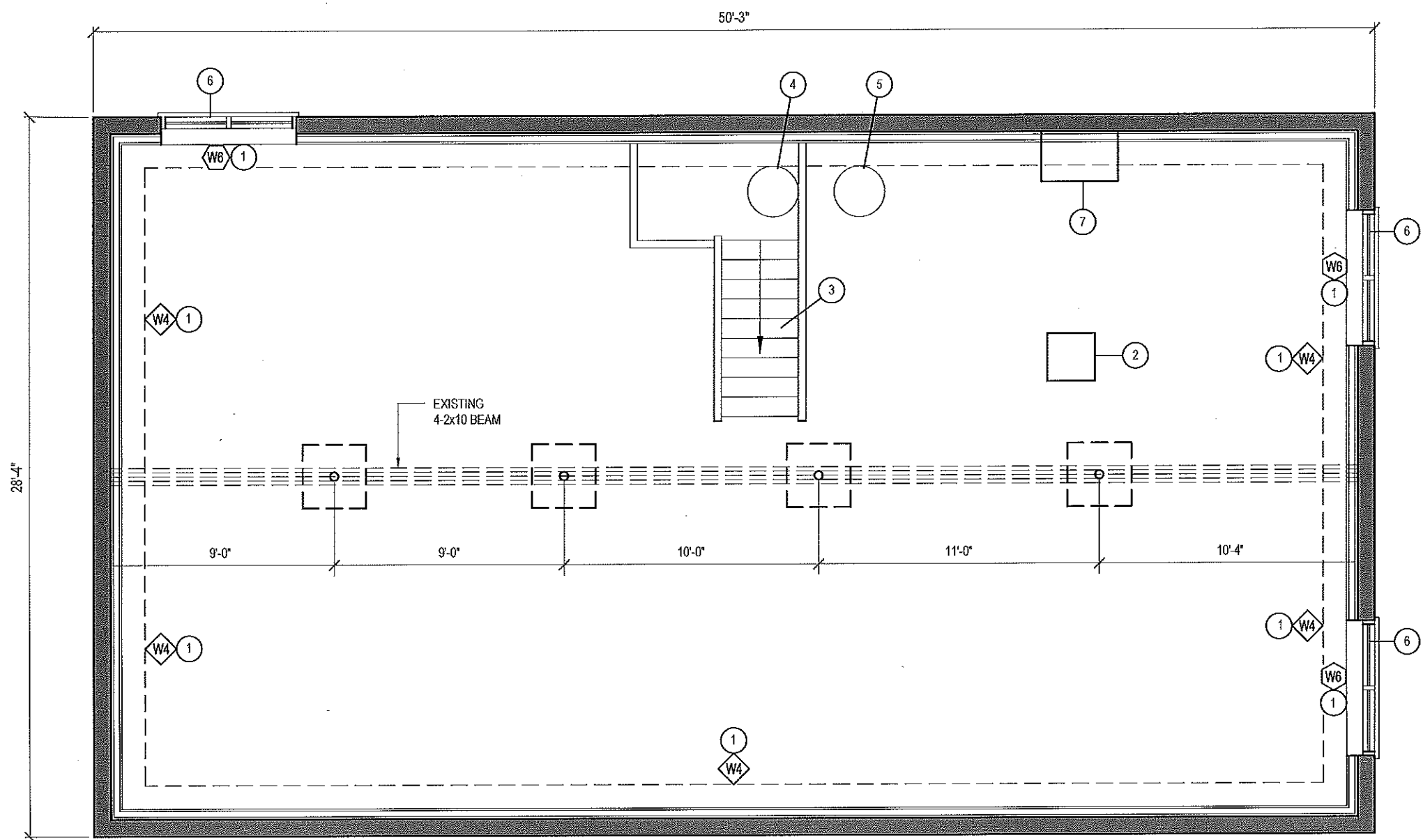
1. NEW INTERIOR WALLS
2. NEW FURNACE - SEE MECHANICAL DRAWING
3. EXISTING STAIRS C/W NEW FLOOR COVERINGS
4. EXISTING SUMP PIT (NEW PUMP)
5. NEW HOT WATER TANK
6. EXISTING BASEMENT WINDOWS TO REMAIN
7. NEW HRV - SEE MECHANICAL DRAWING

GENERAL NOTES:

1. INSTALL ALL NEW TRIM THROUGHOUT THE HOUSE.
2. INSTALL NEW DRYWALL AND REPAINT THROUGHOUT
3. INSTALL NEW ATTIC INSULATION AND INSULATION STOPS
4. INSTALL NEW FLOORING THROUGHOUT MAIN FLOOR AND LOWER LANDING

WALL TYPES:

- ◊W1 EXISTING SIDING
 EXISTING AIR BARRIER
 EXISTING 3/8" SHEATHING
 EXISTING 2x6 STUDS
 NEW R-22 ROXUL INSULATION
 NEW 6MIL AUB
 NEW 1/2" DRYWALL
 FINISH PAINT
- ◊W2 NEW 1/2" DRYWALL
 2x4 STUDS @ 16" O.C.
 NEW 1/2" DRYWALL
- ◊W3 NEW 1/2" DRYWALL
 2x4 OR 2x6 STUDS @ 16" O.C.
 NEW 1/2" MOISTURE RESISTANT DRYWALL
 IN BATHROOMS
- ◊W4 EXISTING 8" CONCRETE WALL
 NEW 1" AIR SPACE
 NEW 2x4 NO.2 SPRUCE STUDS @ 16" O.C.
 NEW R-22 ROXUL INSULATION
 NEW 6MIL AUB
 NEW 1/2" DRYWALL
 FINISH PAINT



1 BASEMENT FLOOR PLAN
 A2.1 SCALE: 3/16"=1'-0"

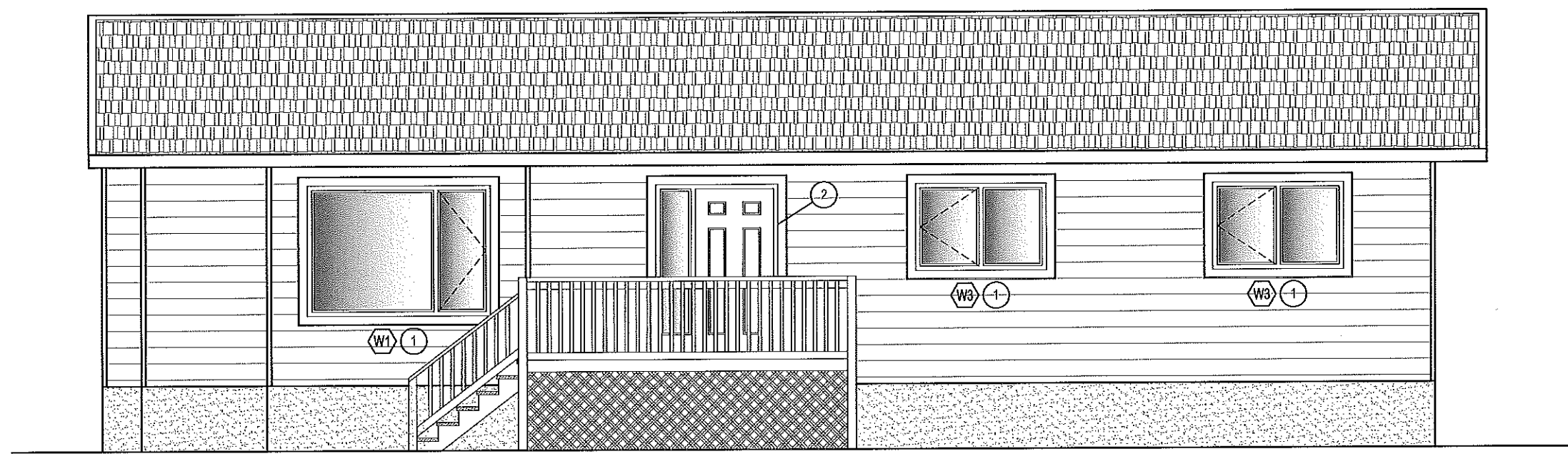
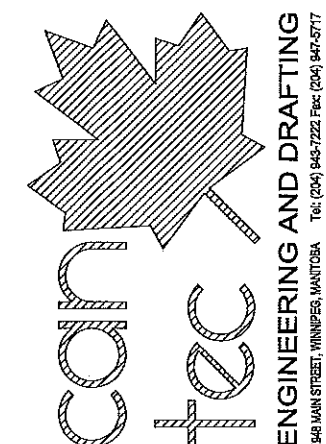
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 SHEET TITLE BASEMENT FLOOR PLAN
 DATE 17-07-11 SCALE AS NOTED
 CHECKED BY RS
 DRAWN BY RQS
 LOCATION 17 FALCON BV, FALCON LAKE, MB

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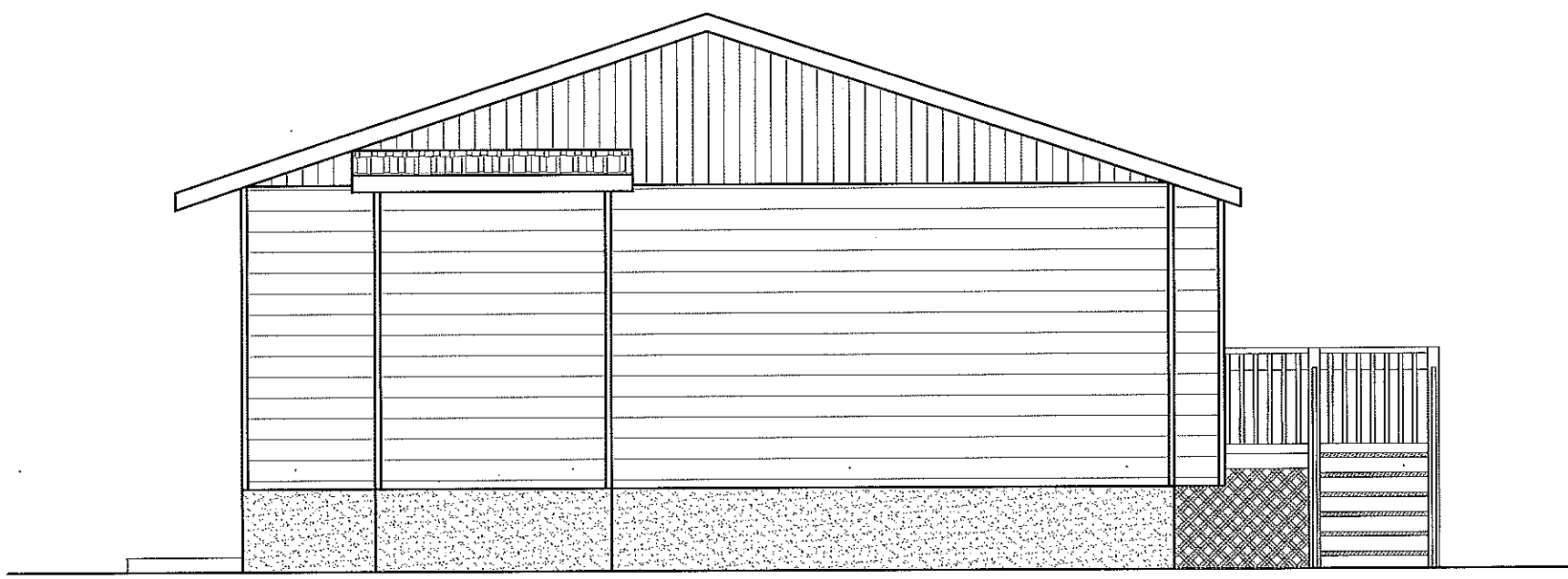
A2.1

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1 FRONT ELEVATION
 A3.0 SCALE: 3/16"=1'-0"



2 LEFT SIDE ELEVATION
 A3.0 SCALE: 3/16"=1'-0"

- DRAWING NOTES: #
1. INSTALL NEW WINDOWS
 2. INSTALL NEW EXTERIOR DOOR AND SIDE LIGHT. DOOR TO BE C/W WITH STORM DOOR

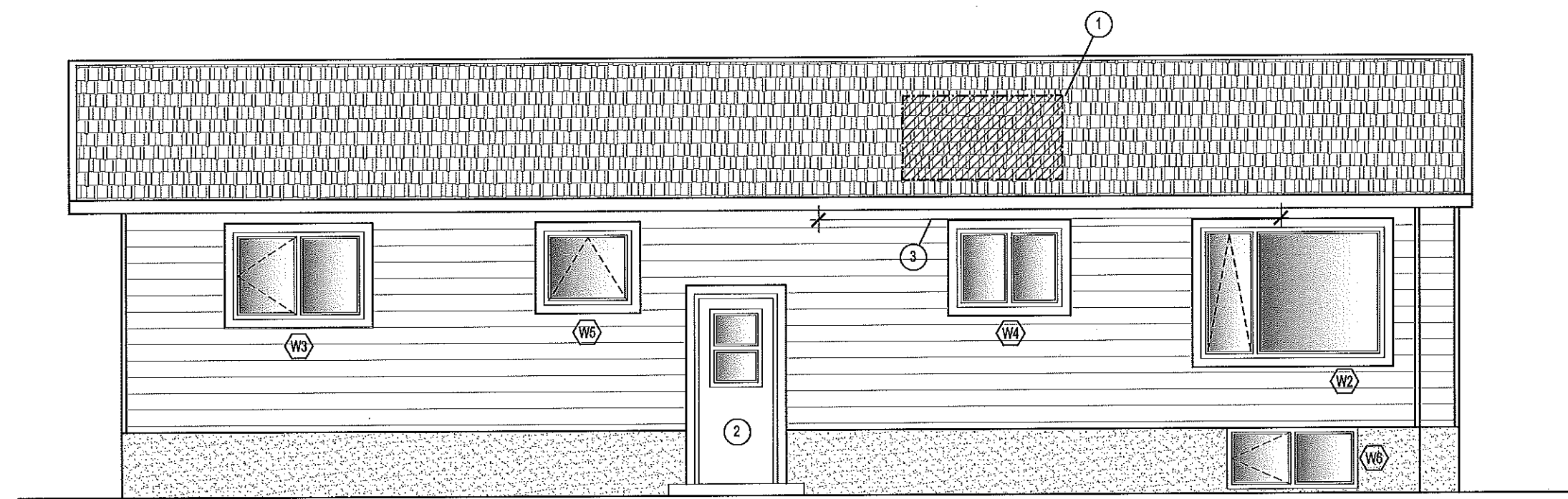
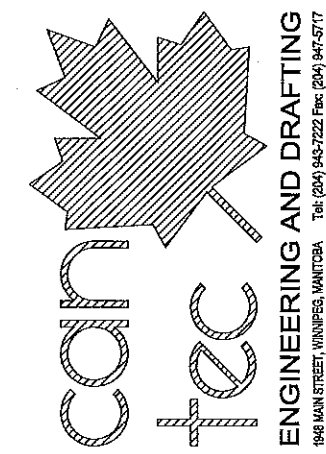
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 SHEET TITLE: **ELEVATIONS**
 DATE: 17-07-11
 SCALE: AS NOTED
 LOCATION: 17 FALCON BV, FALCON LAKE, MB

CHECKED BY: RS
 DRAWN BY: RQS

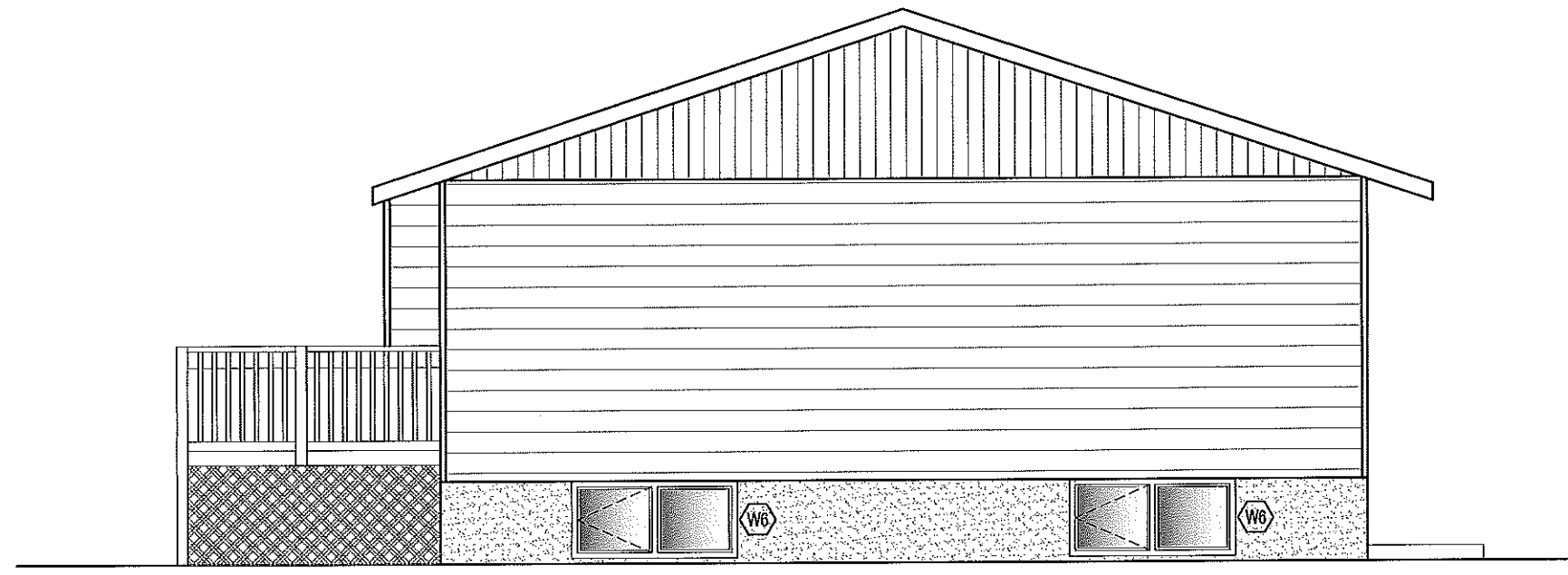
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A3.0
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1 REAR ELEVATION
 A3.1 SCALE: 3/16"=1'-0"



2 RIGHT SIDE ELEVATION
 A3.1 SCALE: 3/16"=1'-0"

DRAWING NOTES: #

1. FIXED DAMAGED ROOF WITH 3/8" PLYWOOD NEW UNDERLAYMENT AND SHINGLES TO MATCH EXISTING APPROXIMATELY AREA 4'x8' HOLE.
2. INSTALL NEW EXTERIOR DOOR AND STORM DOOR
3. REMOVE DAMAGED SOFFIT AND RE-INSTALL. COLOR AND TYPE TO MATCH EXISTING (APPROXIMATELY 25'-0")

PROJECT TITLE
RCMP-FALCON LAKE HOUSE

SHEET TITLE
ELEVATIONS

CHECKED BY
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DRAWN BY
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SCALE
 AS NOTED

DATE
 17-07-11

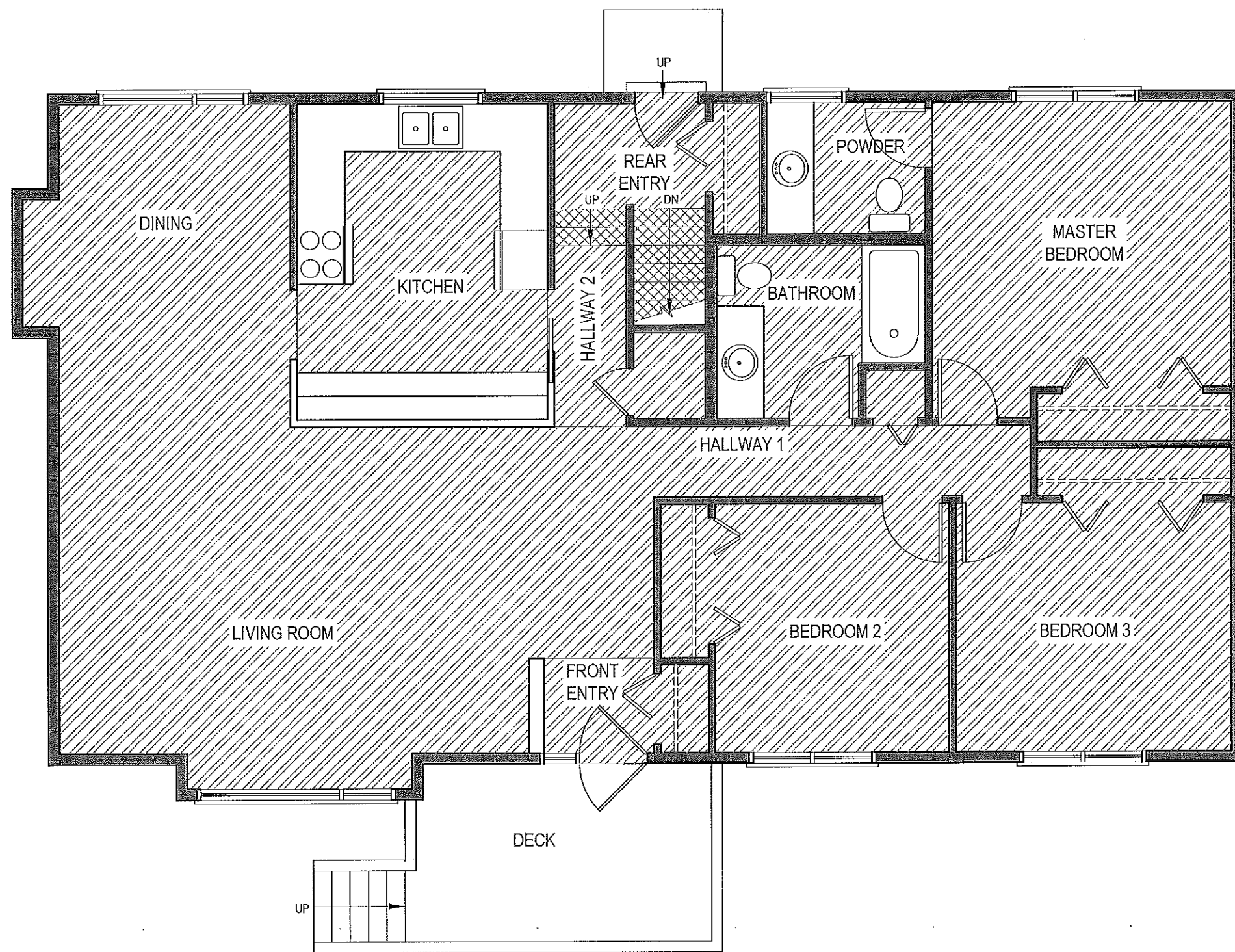
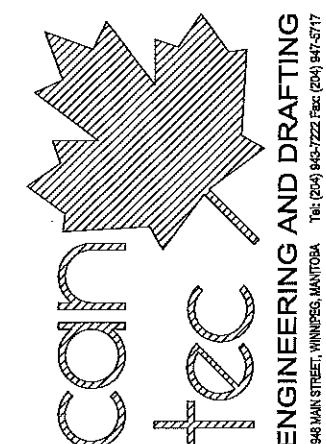
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A3.1

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LEGEND:

- VINYL PLANK FLOORING (VP-1)
- STAIR TREADS

NOTE:
 HOUSE TO HAVE 1/4" UNDERLAYMENT INSTALLED THROUGHOUT.

PROJECT TITLE: RCMP-FALCON LAKE HOUSE
 SHEET TITLE: MAIN FLOOR PLAN-FLOORING
 DATE: 17-07-11
 SCALE: AS NOTED
 LOCATION: 17 FALCON BV, FALCON LAKE, MB
 DRAWN BY: RQS
 CHECKED BY: RS

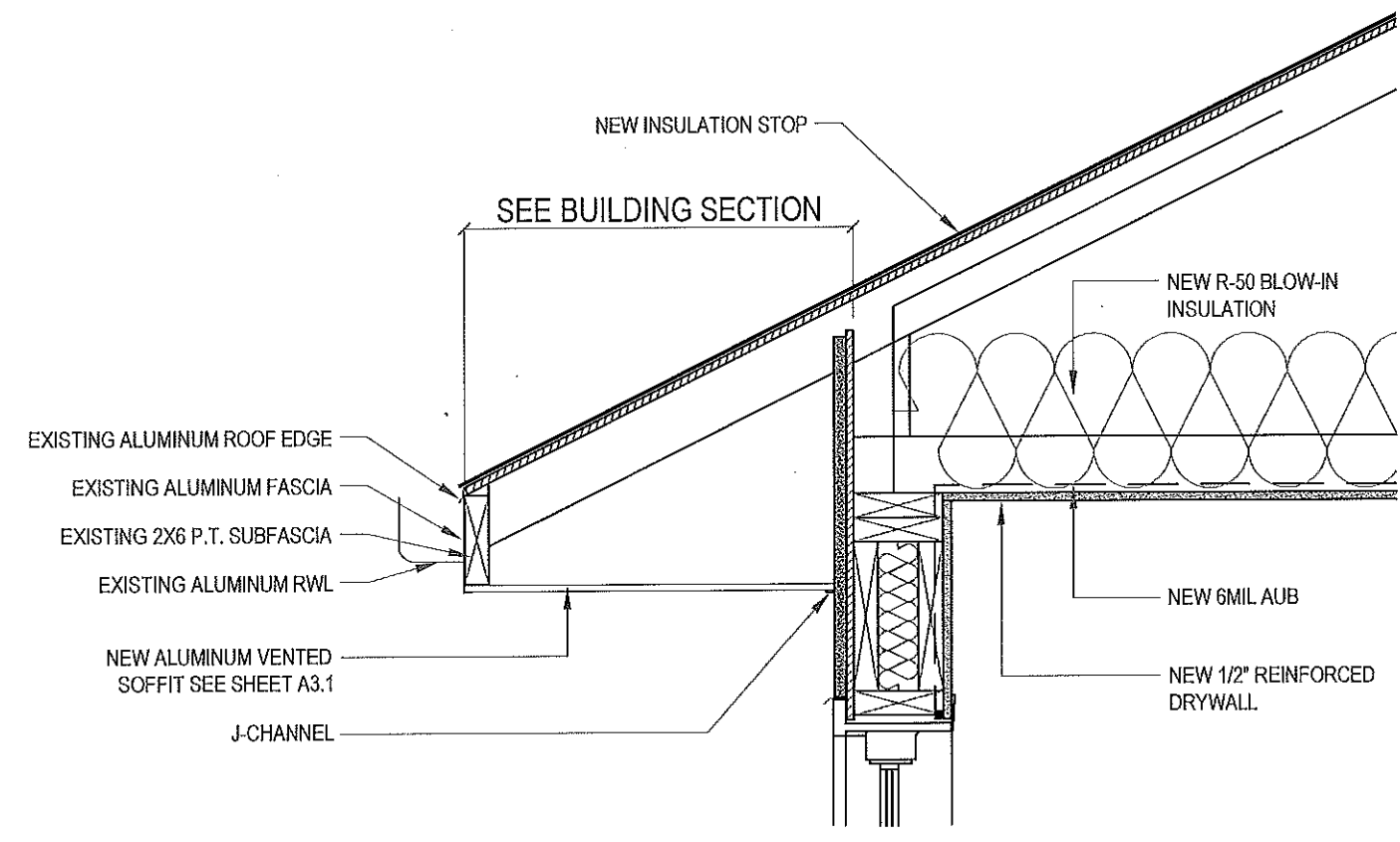
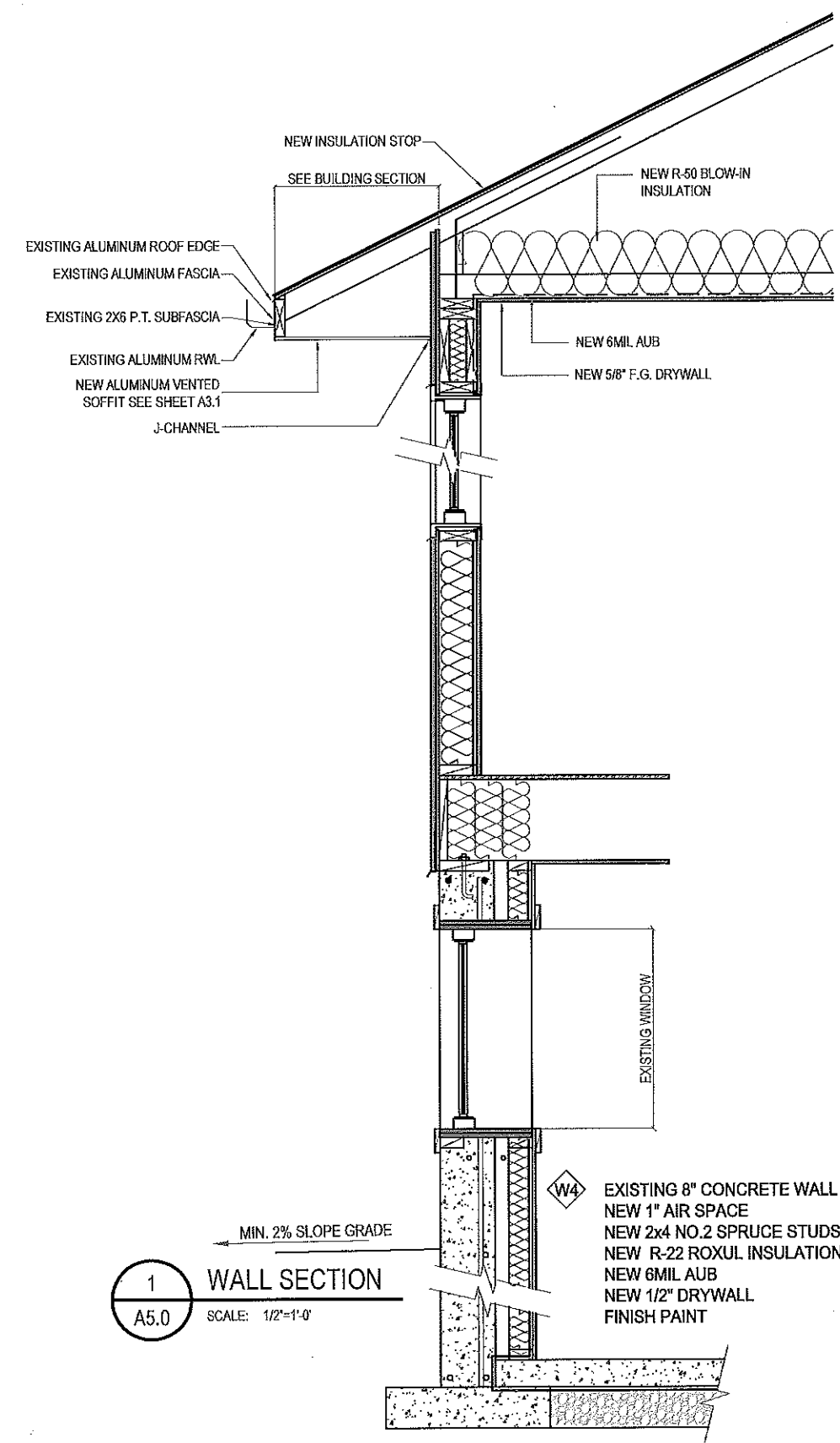
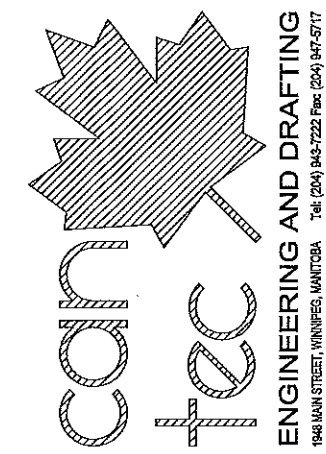
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1 MAIN FLOOR PLAN-FLOORING
 A4.0 SCALE: 3/16"=1'-0"

A4.0

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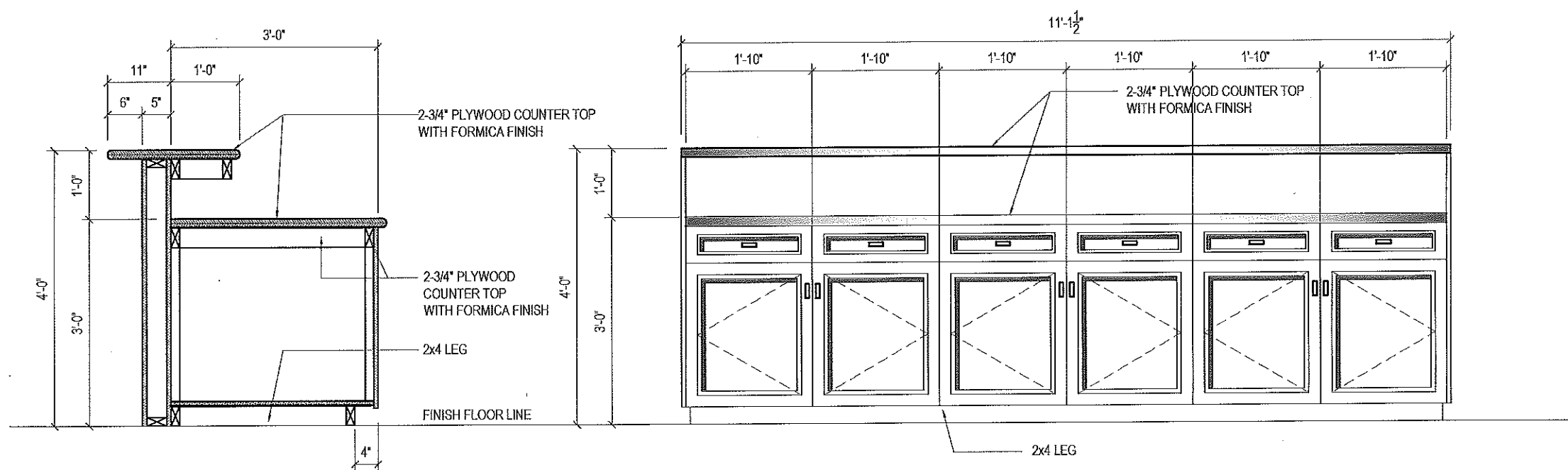
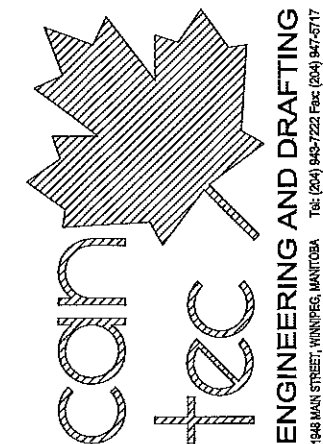
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 SHEET TITLE: **DETAIL OF WALL & EAVES**
 DATE: 17-07-11
 SCALE: AS NOTED
 LOCATION: 17 FALCON BV, FALCON LAKE, MB

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A5.0
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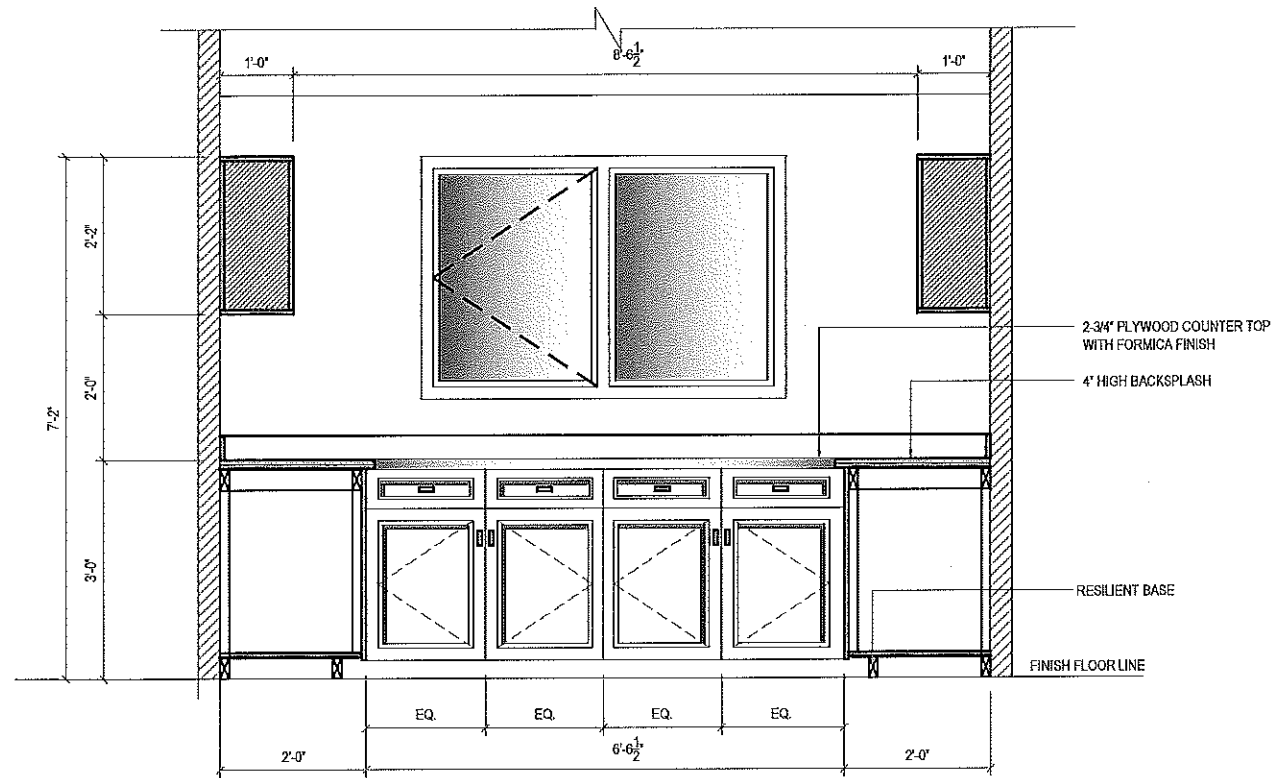


1 DETAIL OF MILLWORK
 A5.1 SCALE: 1/2"=1'-0"

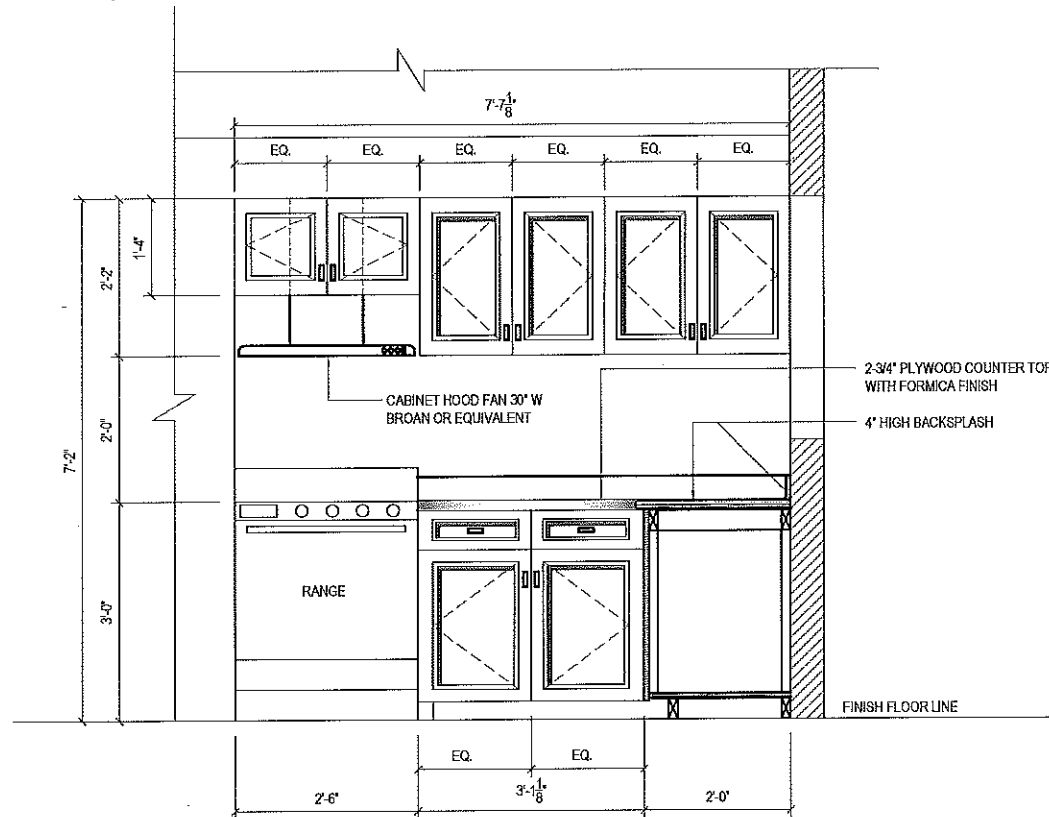
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 SHEET TITLE: DETAIL OF MILLWORK
 DATE: 17-07-11
 SCALE: AS NOTED
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 DRAWN BY: RGS
 CHECKED BY: RS

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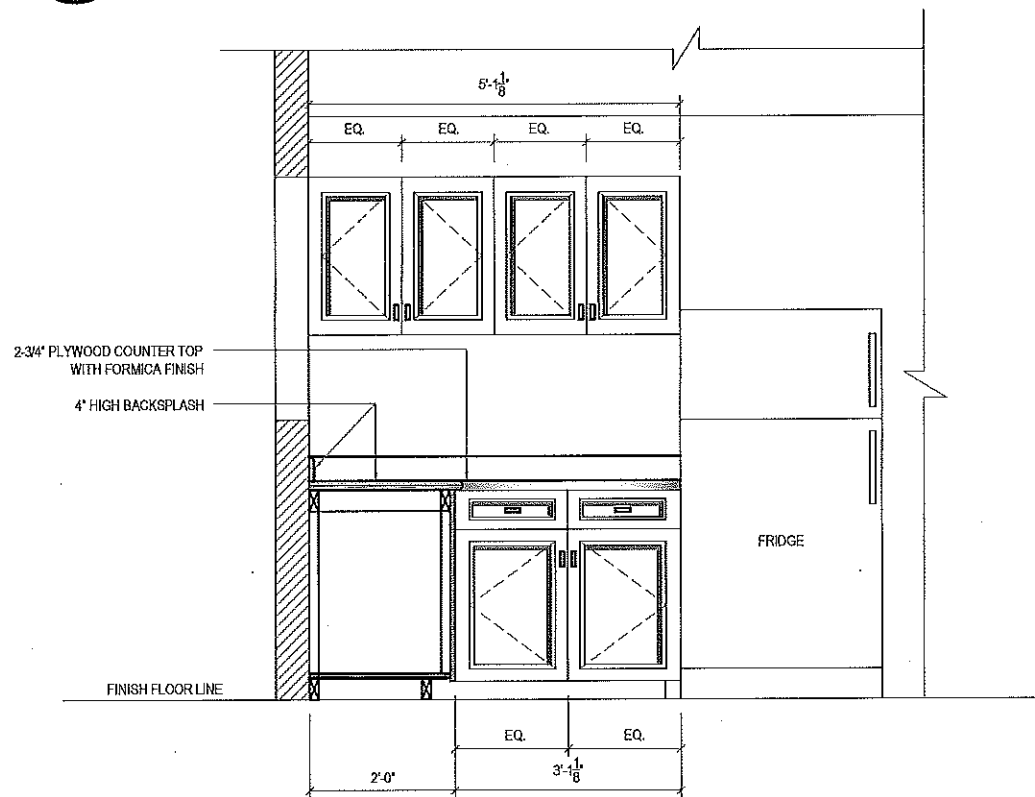
A5.1
 JOB NO. 17-037-01-11



1 KITCHEN ELEVATION / SECTION
A5.2 SCALE: 3/8"=1'-0"

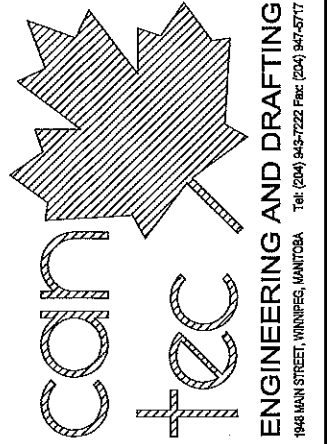


2 KITCHEN ELEVATION / SECTION
A5.2 SCALE: 3/8"=1'-0"



3 KITCHEN ELEVATION / SECTION
A5.2 SCALE: 3/8"=1'-0"

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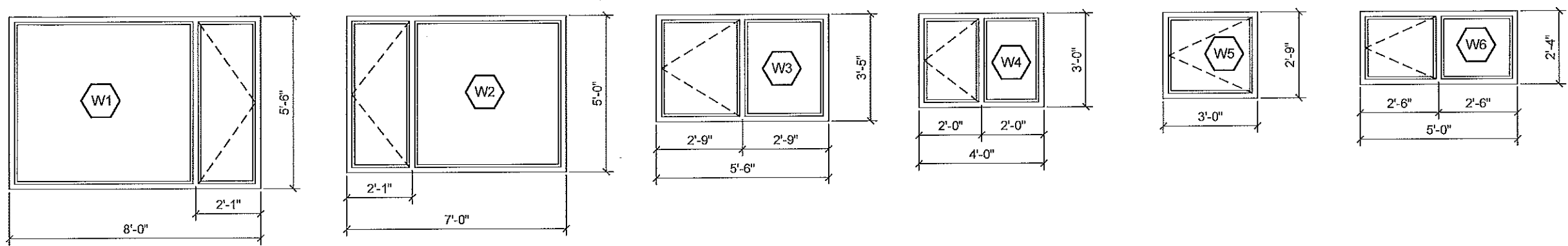


PROJECT TITLE: RCMP-FALCON LAKE HOUSE
SHEET TITLE: KITCHEN ELEVATION / SECTION
DATE: 17-07-11
SCALE: AS NOTED
DRAWN BY: RQS
CHECKED BY: RS
LOCATION: 17 FALCON BV, FALCON LAKE, MB

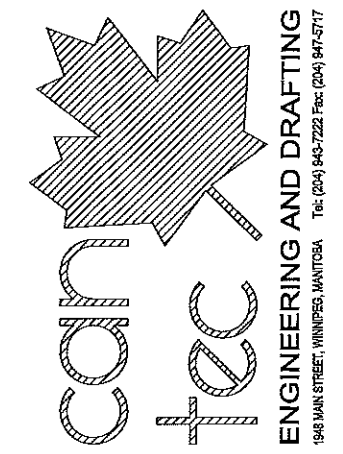
REVISION NO. 01
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A5.2
JOB NO. 17-037-01-11

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WINDOW ELEVATION



ROOM SCHEDULE											
ROOM NAME	WALLS								CEILING		REMARKS
	NORTH		SOUTH		EAST		WEST		MATERIAL	FINISH	
	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH			
LIVING ROOM	DRYWALL	PAINT	DW	PAINT	DRYWALL	PAINT	DRYWALL	PAINT	DRYWALL		
DINING	DW	PAINT	DW	PAINT	DRYWALL	PAINT	DRYWALL	PAINT	DRYWALL		
KITCHEN	DW	PAINT	DW	PAINT	DRYWALL	PAINT	DRYWALL	PAINT	DRYWALL		
MASTER BEDROOM	DW	PAINT	DW	PAINT	DRYWALL	PAINT	DRYWALL	PAINT	DRYWALL		
BEDROOM 2	DW	PAINT	DW	PAINT	DRYWALL	PAINT	DRYWALL	PAINT	DRYWALL		
BEDROOM 3	DW	PAINT	DW	PAINT	DRYWALL	PAINT	DRYWALL	PAINT	DRYWALL		
HALLWAY 1	DW	PAINT	DW	PAINT	DRYWALL	PAINT	DRYWALL	PAINT	DRYWALL		
HALLWAY 2	DW	PAINT	DW	PAINT	DRYWALL	PAINT	DRYWALL	PAINT	DRYWALL		
BATHROOM	DW	PAINT	DW	PAINT	DRYWALL	PAINT	DRYWALL	PAINT	DRYWALL		
POWDER ROOM	DW	PAINT	DW	PAINT	DRYWALL	PAINT	DRYWALL	PAINT	DRYWALL		

NOTES:

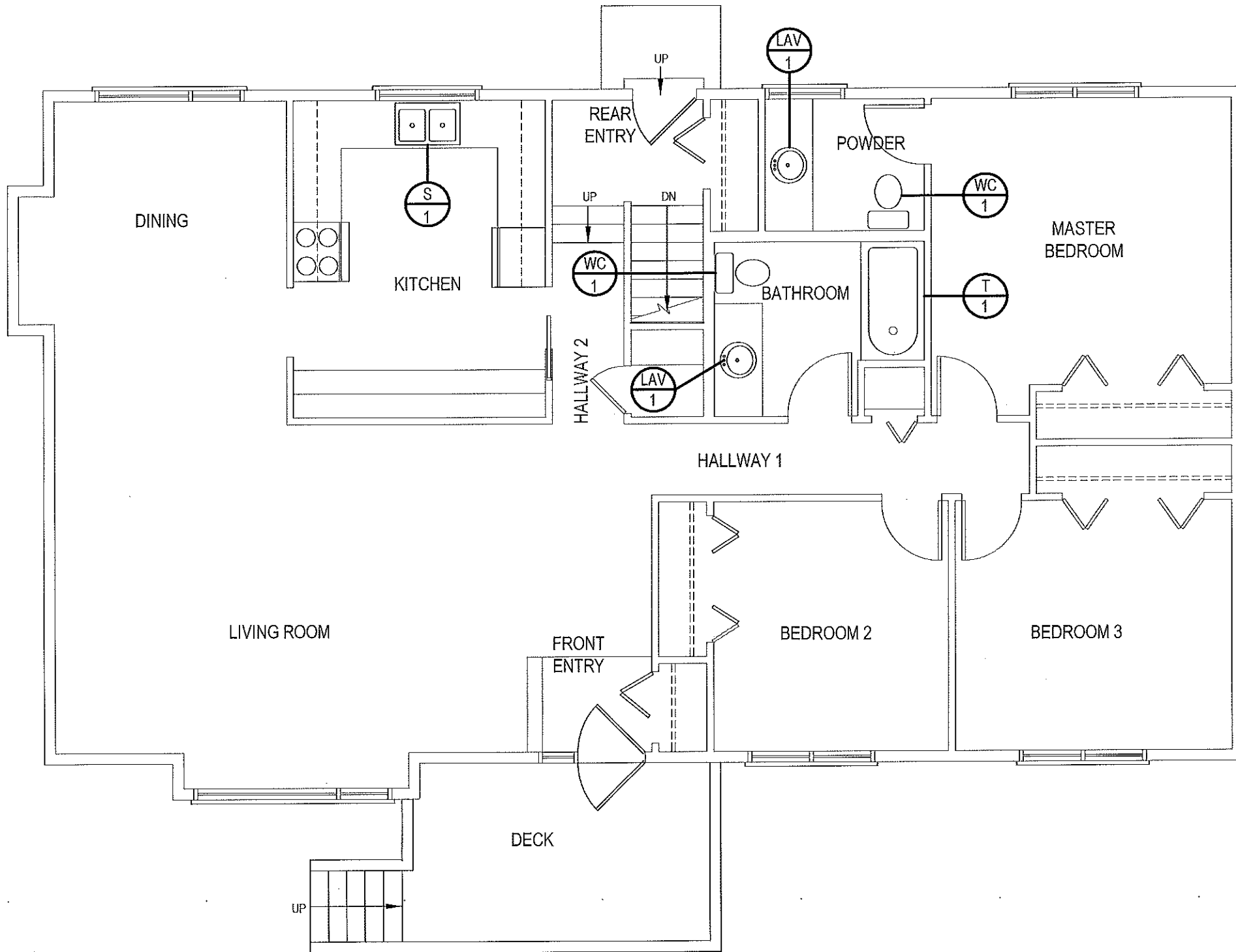
1. 6 MIL POLY RETURNED INTO ROUGH WINDOW OPENING AND SEALED TO WOOD FRAMING
2. AIR BARRIER RETURNED INTO ROUGH WINDOW OPENING AND SEALED TO WOOD FRAMING
3. SPRAY FOAM INSULATION INTO SPACES BETWEEN WINDOW AND ROUGH OPENING
4. PROVIDE PRE FINISHED POST FORMED GALVANIZED STEEL FLASHING FULL WIDTH OF WINDOW AT TOP OF WINDOW
5. BEDROOM WINDOWS MUST MEET NBC EGRESS REQUIREMENTS AS PER 9.7.1.3.2
6. INSTALL NEW WINDOW AND DOOR CASING TO ALL UNITS BEING REPLACED.

PROJECT TITLE: **RCMP-FALCON LAKE HOUSE**
 SHEET TITLE: **WINDOW & ROOM SCHEDULE**
 DATE: 17-07-11
 SCALE: AS NOTED
 LOCATION: 17 FALCON BV, FALCON LAKE, MB
 DRAWN BY: RQS
 CHECKED BY: RS

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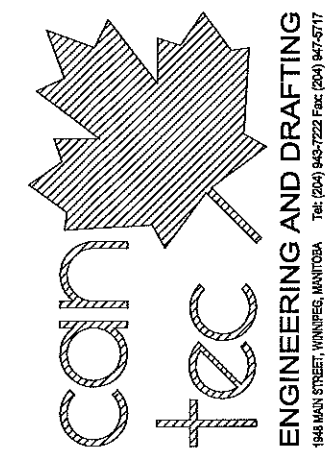
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PLUMBING GENERAL NOTES:

1. INSTALL NEW FIXTURES AND NEW DOMESTICE WATER AND SANITARY PIPING TO EXISTING PLUMBING STACK
2. INSTALL NEW HWT CW SHUT OFF VALVE DRAIN PAN
3. RE-RUN ALL DOMESTIC HOT AND COLD WATER LINES BACK TO SERVICE ENTRY
4. INSTALL NEW SUMP PUMP 1/3 HP SUPPLY SHOP DRAWING



PROJECT TITLE
RCMP-FALCON LAKE HOUSE

SHEET TITLE
MAIN FLOOR MECHANICAL PLAN

DATE
 17-07-11

SCALE
 AS NOTED

DRAWN BY
 RQS

CHECKED BY
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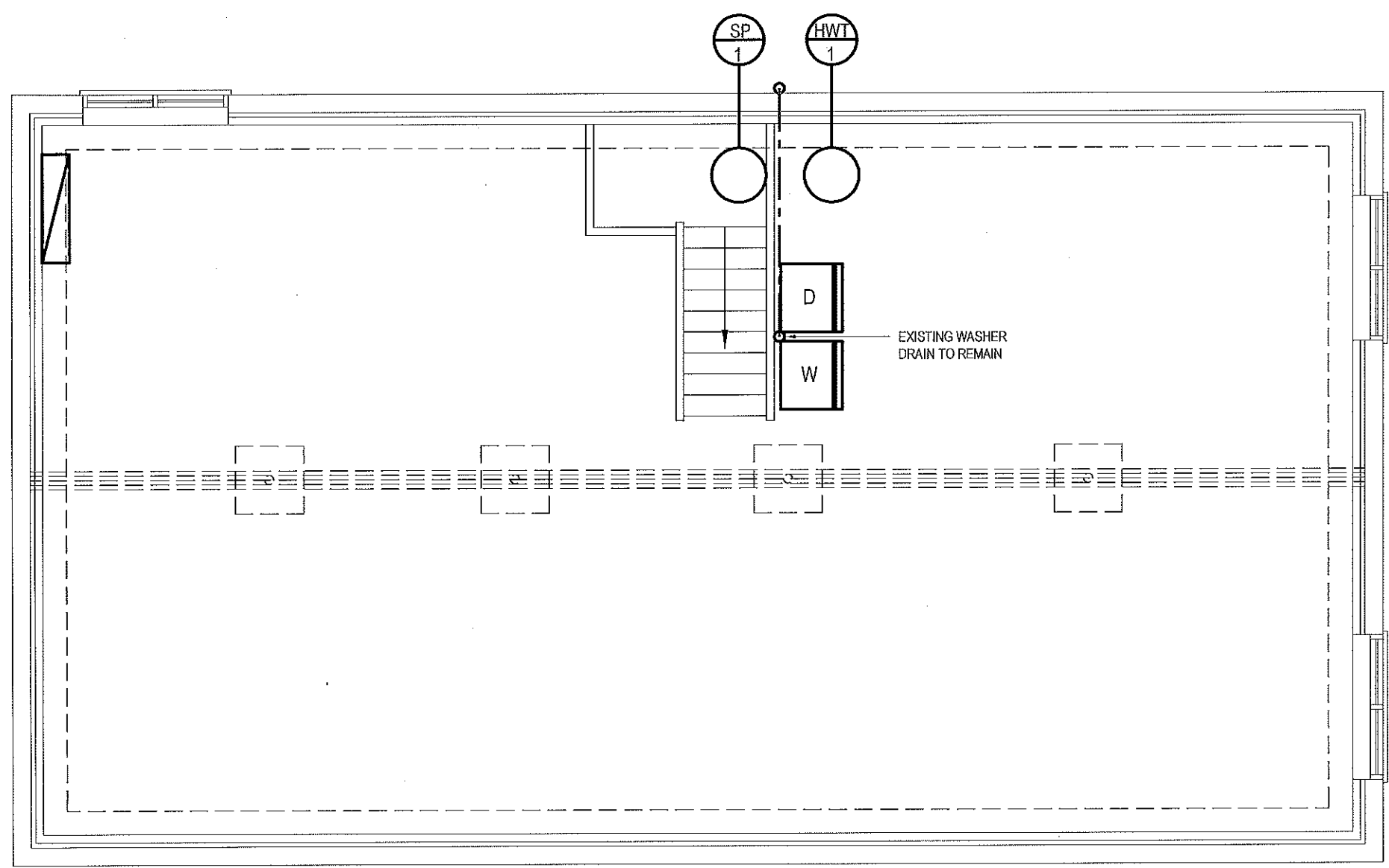
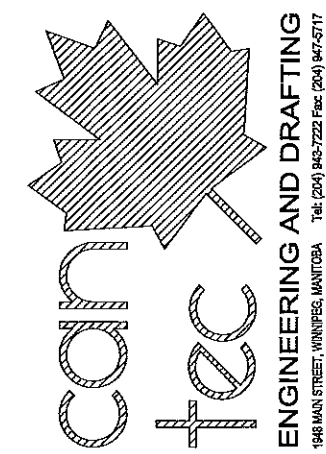
LOCATION
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REVISION NO. 01
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1 MAIN FLOOR MECHANICAL PLAN
 M1.0 SCALE: 3/16"=1'-0"

M1.0
 JOB NO.
 17-037-01-11

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PROJECT TITLE
RCMP-FALCON LAKE HOUSE

SHEET TITLE
BASEMENT MECHANICAL PLAN

DATE
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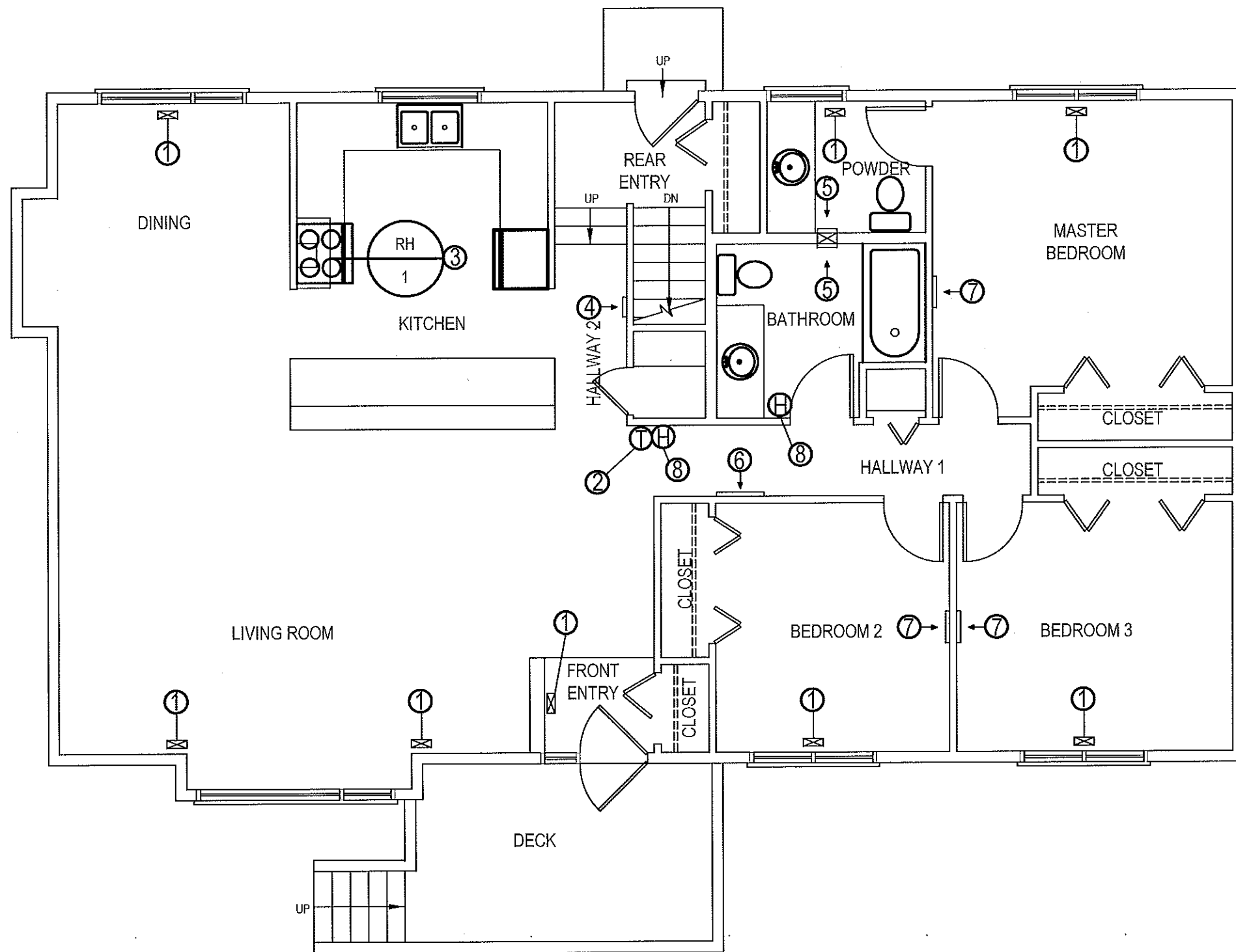
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M1.1

JOB NO.
 17-037-01-11

1 BASEMENT MECHANICAL PLAN
 E1.1 SCALE: 3/16"=1'-0"



DRAWING NOTES (8):

1. INSTALL NEW IMPERIAL GRILLS 10" X 4".
2. NEW 7 DAYS PROGRAMMABLE THERMOSTAT.
3. NEW RANGE HOOD, EXHAUST DUCT THROUGH ROOF C/W GOOSE NECK.
4. RE-LOCATE KITCHEN EXHAUST 10" X 8" SIDE WALL C/W GREASE FILTER.
5. NEW SIDE WALL EXHAUST 10" X 8".
6. BASEBOARD GRILL 24" X 8".
7. BASEBOARD GRILL 16" X 8".
8. HRV CONTROLLER

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ENGINEERING AND DRAFTING
 1948 MAIN STREET, WINNIPEG, MANITOBA TEL: (204) 949-7222 FAX: (204) 947-5717

PROJECT TITLE
RCMP-FALCON LAKE HOUSE

SHEET TITLE
MAIN FLOOR HVAC

DATE
 17-06-09

SCALE
 AS NOTED

DRAWN BY
 WD

CHECKED BY
 RS

LOCATION
 17 FALCON BV, FALCON LAKE, MB

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M2.0

JOB NO.
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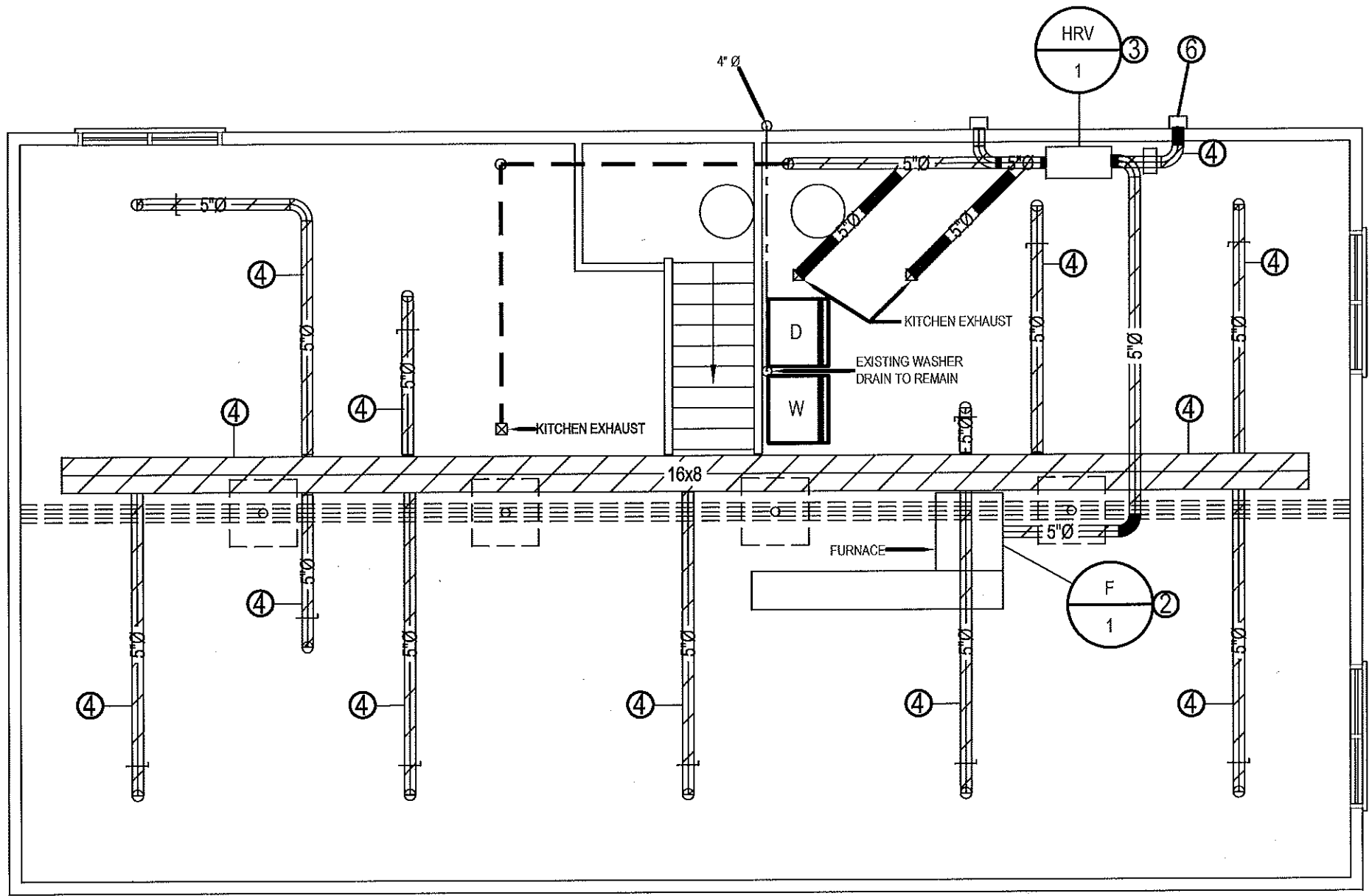
1 MAIN FLOOR HVAC
 M2.0 SCALE: 3/16"=1'-0"

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DRAWING NOTES: #

1. NOT USED
2. NEW FURNACE MOUNT ON STAND 12" OFF FLOOR.
3. NEW HRV ALL DUCTS TO HRV ARE TO BE RIGID NO FLEXIBLE DUCTS ARE PERMITTED. INSULATE SUPPLY AND EXHAUST LINES AS PER SPECIFICATION.
4. POWER CLEAN ALL DUCTS.
5. NEW DRYER EXHAUST 5"Ø C/W GALVANIZED FLAPPER VENT.
6. 3.0 KW DUCT HEATER C/W SCR



1 BASEMENT FLOOR HVAC
 M2.1 SCALE: 3/16"=1'-0"

PROJECT TITLE RCMP-FALCON LAKE HOUSE
 SHEET TITLE BASEMENT FLOOR HVAC
 DATE 17-06-09 SCALE AS NOTED
 DRAWN BY RQS CHECKED BY RS
 LOCATION 17 FALCON BV, FALCON LAKE, MB

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MECHANICAL GENERAL SPECIFICATION

- MECHANICAL CONTRACTOR SHALL EMPLOY ONLY CERTIFIED JOURNEYMEN NORMALLY ENGAGED IN THE SHEET METAL AND STEAM FITTING TRADES TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION AND/OR OWNER OR HIS REPRESENTATIVE.
- PROVIDE A WRITTEN ONE YEAR WARRANTY ON ALL WORK DONE UNDER THIS CONTRACT FROM DATE OF ACCEPTANCE.
- THE MANITOBA BUILDING/PLUMBING CODE 2010 SHALL GOVERN THIS PROJECT MECHANICALLY.
- ALL CHANGES AND ALTERATIONS REQUIRED BY THE AUTHORIZED INSPECTOR OF THE AUTHORITIES HAVING JURISDICTION SHALL BE CARRIED OUT WITHOUT CHARGE OR EXPENSES TO THE OWNER.
- EACH CONTRACTOR SHALL COORDINATE THE WORK WITH OTHER CONTRACTORS IN ORDER TO AVOID CONFLICTS.
- CONTRACTOR SHALL VERIFY EXACT LOCATIONS, SIZES, INVERTS, ETC PRIOR TO TENDER CLOSE AND COMMENCEMENT OF WORK.
- COORDINATE THE EXACT LOCATION OF THE GRILLES AND DIFFUSERS ON SITE WITH THE ELECTRICAL CONTRACTOR, GENERAL CONTRACTOR, ARCHITECTURAL REFLECTED CEILING PLAN, LIGHTING LAYOUT, ETC. TO ENSURE THAT THERE ARE NO CONFLICTS DURING INSTALLATION.
- AT THE COMPLETION OF THE INSTALLATION, PROVIDE TWO MARKED UP COPIES OF THE TENDER DRAWINGS FOR RECORD PURPOSES.
- ALL PIPING, DUCTWORK, AND EQUIPMENT SHALL BE SECURELY SUPPORTED FROM THE BUILDING STRUCTURE TO ACCEPTABLE BUILDING DESIGN STANDARDS. PERFORATED STRAP HANGERS WILL NOT BE PERMITTED. ALL PIPE HANGERS SHALL BE OVERSIZED WITH BOTTOM SADDLE WHERE EXTERIOR PIPE INSULATION IS USED.
- PERMANENT SYSTEMS AND/OR EQUIPMENT SHALL NOT BE USED DURING THE CONSTRUCTION PERIOD WITHOUT WRITTEN PERMISSION FROM THE OWNER.
- PROVIDE INSTRUCTIONS TO OWNER ON ALL SYSTEMS AND ASSOCIATED EQUIPMENT.
- TESTING OF ALL SAFETY DEVICES SHALL BE CARRIED OUT BY THE MECHANICAL CONTRACTOR AND WITNESSED BY THE OWNER'S REPRESENTATIVE, SIGNED OFF AND FORWARDED TO THE O/M MANUAL.
- MEET SAFETY REQUIREMENTS OF PROVINCIAL DEPARTMENT OF LABOUR AND LOCAL AUTHORITIES HAVING JURISDICTION.
- A WRITTEN GUARANTEE COVERING ALL MATERIALS AND WORKMANSHIP FOR ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE OF THE ENTIRE CONTRACT, SHALL BE SUPPLIED BY THE CONTRACTOR. THIS GUARANTEE WILL NOT CANCEL LONGER WARRANTIES.
- UPON COMPLETION OF THE WORK, THE ENTIRE JOB SITE SHALL BE CLEARED UP AND LEFT IN GOOD OPERATING CONDITION. THOROUGHLY CLEAN PIPING, DUCTWORK, AND EQUIPMENT OF DIRT, CUTTINGS AND OTHER FOREIGN SUBSTANCES.
- ALL CUTTING AND PATCHING AND RELATED CONSTRUCTION WORK ARE TO BE PERFORMED BY THE GENERAL CONTRACTOR UPON INSTRUCTION FROM THE MECHANICAL CONTRACTOR.
- ALL GALVANIZED DUCTWORK IS TO BE MANUFACTURED IN ACCORDANCE WITH CURRENT S.M.A.C.N.A. SPECIFICATIONS. ALL DUCTWORK IS TO BE SEALED WITH HIGH VELOCITY BRUSHED ON DUCT SEALANT.
- ALL GALVANIZED DUCTWORK IS TO BE MANUFACTURED IN ACCORDANCE WITH CURRENT S.M.A.C.N.A. SPECIFICATIONS. ALL DUCTWORK IS TO BE SEALED WITH HIGH VELOCITY BRUSHED ON DUCT SEALANT.
- PERMITS: CONTRACTOR IS RESPONSIBLE FOR GIVING ALL NECESSARY NOTICES, OBTAINING ALL NECESSARY PERMITS AND PAYING ALL APPLICABLE FEES.
- ASSUME FULL RESPONSIBILITY FOR LAYING OUT ALL WORK AND ENSURE THAT NO DAMAGE IS CAUSED TO THE OWNERS EQUIPMENT AND PREMISES. PROTECT AND MAINTAIN ALL WORK UNTIL WORK HAS BEEN COMPLETED AND ACCEPTED BY THE OWNER AND ENGINEER.
- ALL WIRING AND THE SUPPLY AND INSTALLATION OF STARTERS AND/OR DISCONNECT SWITCHES FOR EQUIPMENT SHALL BE BY THE ELECTRICAL CONTRACTOR (DIV 16)
- SUPPLY AND INSTALL ULC FIRE DAMPERS/FIRE STOPS AT ALL FIRE RATED PENETRATIONS.
- ACCESS DOORS REQUIRED TO GAIN ACCESS TO BALANCING DAMPERS AT FIRE-RATED CEILING - SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR.
- BALANCING - CONTRACTOR WILL ENGAGE AN INDEPENDENT AIR BALANCING AGENCY.
 - SYSTEM TO BE ADJUSTED TO DATA PROVIDED.
 - BALANCING CONTRACTOR TO CONFIRM OPERATION OF COMPLETE MECHANICAL SYSTEM.
 - PROVIDE REPORT TO ENGINEER. (4 COPIES)

INSPECTION AND TESTING

- THE WORK SHALL BE AT ALL TIMES AVAILABLE FOR INSPECTION BY AN OWNER REPRESENTATIVE. ALL WORK SHALL BE IN ACCORDANCE WITH AND SHALL BE INSPECTED TO MEET THE REQUIREMENTS OF THIS SPECIFICATION.
- ALL START-UP AND TESTING SHALL BE PERFORMED IN THE PRESENCE OF THE OWNER. NOTICE

OF DATE WHEN TESTS SHALL BE PERFORMED MUST BE RECEIVED BY OWNER

- WORK SHALL NOT BE INSULATED OR CONCEALED PRIOR TO BEING TESTED AND APPROVED.
- OPERATE SYSTEM FOR A SUFFICIENT PERIOD OF TIME TO ENSURE COMPLETE ACCEPTANCE; DEFECTS SHALL BE REMEDIATED AT CONTRACTOR'S EXPENSE.
- AIR BALANCING SHALL BE PERFORMED BY AN INDEPENDENT CERTIFIED AIR BALANCING CONTRACTOR AND THE BALANCING REPORT SUBMITTED TO THE ENGINEER. COST FOR THIS WORK IS TO BE CARRIED BY THE MECHANICAL CONTRACTOR.

INSULATION:

- PROVIDE 1/2"(12mm) THICK, FOIL-FACED RIGID PRE-FORMED FIBREGLASS EXTERNAL THERMAL PIPE INSULATION ON ALL NEW NATURAL GAS PIPING FOR 10'(3000mm) ON THE WARM SIDE OF A PENETRATION THROUGH A WALL OR CEILING/ROOF TO A COLD SPACE.
- PROVIDE 2"(50mm) THICK, FOIL-FACED RIGID (FIBREGLASS OR FIBREBOARD) OR FLEXIBLE FIBREGLASS EXTERNAL THERMAL INSULATION ON ALL NEW EXHAUST OR RELIEF DUCTWORK FOR 10'-0"(3.0M) ON THE WARM SIDE OF A PENETRATION THROUGH A WALL/FLOOR/CEILING/ROOF TO A COLD SPACE, WHERE A BACKDRAFT DAMPER IS PROVIDED AT THE PENETRATION TO THE COLD SPACE WHERE THE BACKDRAFT DAMPER IS PROVIDED IN THE DUCTWORK, INSULATION SHALL EXTEND FROM THE PENETRATION TO 10'-0"(3.0M) UPSTREAM OF THE BACK DRAFT DAMPER.
- PROVIDE 1"(25mm) THICK, FOIL-FACED EXTERNAL THERMAL INSULATION ON ALL NEW SUPPLY AIR DUCT MAINS, EXCLUDING INDIVIDUAL RUN-OUTS TO DIFFUSERS. INSULATION SHALL BE FLEXIBLE FIBREGLASS, OR RIGID FIBREBOARD.
- PROVIDE 2"(50mm) THICK, FOIL-FACED RIGID FIBREGLASS OR FIBREBOARD EXTERNAL THERMAL INSULATION ON ALL NEW OUTSIDE AIR INTAKE, MIXED AIR AND COMBUSTION AIR DUCTWORK, ROUND COMBUSTION AIR DUCTWORK MAY BE FLEXIBLE FIBREGLASS.
- PROVIDE 3"(75mm) THICK, FOIL-FACED RIGID FIBREGLASS OR FIBREBOARD EXTERNAL THERMAL INSULATION ON ALL NEW DUCTWORK LOCATED OUTDOORS. PROVIDE WEATHERPROOFING EQUAL TO:
 - PROVIDE DIMPLE FINISH .016 ALUMINUM JACKET OR GALVANIZED SHEET.
- PROVIDE 1"(25mm) THICK, BLACK CELLULAR FOAM RUBBER INSULATION ON ALL REFRIGERATION PIPING, INSTALL USING PLASTIC WIRE TIES.
- ALL JOINTS AND ELBOWS SHALL BE COMPLETELY INSULATED EXCEPT JOINTS AND ELBOWS MAY BE LEFT UNCOVERED ON HOT PIPING IN CONCEALED SPACES.
- ALL VALVES AND UNIONS SHALL BE COMPLETELY INSULATED, EXCEPT VALVES AND UNIONS MAY BE LEFT UNCOVERED ON HOT PIPING IN CONCEALED SPACES.
- SEAMS OF FOIL-FACED THERMAL INSULATION SHALL BE SEALED WITH ALUMINUM DUCT TAPE.
- COVER BUTT JOINTS WITH A STRIP OF THE SAME MATERIAL AS THE JACKET.
- FLEXIBLE INSULATION SHALL BE INSTALLED IN A MANNER THAT DOES NOT REDUCE ITS THICKNESS.

DUCTWORK

- ALL DUCT DIMENSIONS DENOTE INTERNAL "FREE" AREA OF THE DUCT.
- SHEET METAL DUCTWORK, HANGERS, FITTINGS, AND COMPONENTS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH "SMACNA" HVAC DUCT CONSTRUCTION STANDARDS LATEST EDITION AND "ASHRAE" EQUIPMENT GUIDE.
- ALL DUCTWORK SHALL BE INSTALLED ACCORDING TO SMACNA STATIC PRESSURE CLASS + 500 PA STANDARDS.
- ALL 90 DEGREE SQUARE TURN ELBOWS (WHICH HAVE NO CHANGE IN DIMENSIONS THROUGH TURN) SHALL HAVE DOUBLE THICKNESS TURNING VANES.
- ROUND DUCT ELBOWS SHALL HAVE A RADIUS DIMENSION 1.5 TIMES THE WIDTH OF THE DUCT (IN THE PLANE OF THE TURN) TO THE CENTERLINE OF THE DUCT.
- ALL EXHAUST AIR DUCTWORK SHALL BE INSULATED WITH 2" THICK FOIL FACED FIBREGLASS DUCT INSULATION FROM THE EXTERIOR WALL OR ROOF SURFACE TO A DISTANCE OF 6'-0" (MIN.) INTO THE BUILDING SPACE, EXCEPT AS INDICATED.
- MECHANICAL CONTRACTOR SHALL INSTALL 4" (MIN.) FLEXIBLE CONNECTORS ON INLET AND DISCHARGE DUCTWORK OF EQUIPMENT.
- ALL SUPPLY AIR DUCTWORK SHALL BE INTERIOR INSULATED WITH 1" ACOUSTIC INSULATION FOR THE FIRST 10' FROM THE FAN DISCHARGE, UNLESS INDICATED OTHERWISE. PROVIDE INTERIOR ACOUSTIC INSULATION FOR RETURN AIR DUCT FROM RETURN AIR GRILLE TO MIXING BOX.
- PROVIDE BALANCING DAMPERS AS SHOWN AND AS REQUIRED TO ALLOW PROPER BALANCING OF THE SYSTEM. BALANCING DAMPERS SHALL BE PROVIDED FOR EACH SUPPLY AIR OUTLET AND RETURN/EXHAUST AIR INLET. DAMPERS MOUNTED AT GRILLES SHALL BE MULTI-BLADE TYPE. BUTTERFLY DAMPERS IN DUCTWORK SHALL BE CONSTRUCTED OF SHEET METAL TWO GAUGES HEAVIER THAN THE DUCTWORK. DUCT DAMPERS SHALL HAVE LOCKING QUADRANTS AND POSITION INDICATORS.
- JOINT SEALS
SEAL JOINTS BETWEEN DUCTS, FITTINGS, ETC., WITH DURO-DYNE S-2 DUCT SEALER AND DURO-DYNE FIBREGLASS DUCT TAPE. APPLY IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

- FITTINGS
MANUFACTURED BY UNITED, 90 DEGREE ELBOWS TO BE 5 PIECE MITRED, 8" DIA. OR LESS, 90 DEGREE ELBOWS CAN BE 1 PIECE MOLDED TYPE. USE CONICAL CONNECTIONS THROUGHOUT INSTALLATION.
- FIRE DAMPERS
ULC LISTED BLADE POCKETS OUT OF AIR STREAM, "FIRE BARRIER" OR EQUAL. CEILING FIRE DAMPERS SHALL BE 'CONTROLLED AIR' MODEL CFSR-1 c/w CK2000 THERMAL BLANKET, ULC LISTED.
- ACCESS DOORS
PROVIDE ACCESS DOORS AS REQUIRED TO ACCESS AND MAINTAIN ALL VENTILATION EQUIPMENT, INCLUDING COILS, MOTORIZED DAMPERS, AND FIRE DAMPERS.
- PIPING
REFRIGERANT PIPING TO BE INSULATED WITH 1/4" FLEXIBLE PIPE INSULATION AND WEATHER COATING WHERE REQUIRED.
- ALL PENETRATIONS IN FIRE RATED SURFACES ARE TO BE SEALED WITH ELECTROVERT CLK CAULKING MATERIAL OR APPROVED EQUAL.
- SUPPLY 4 SPARE FUSES AND LAMPS FOR ALL CONTROL PANELS.
- SUPPLY LAMACOID NAME TAGS FOR ALL AIR HANDLING EQUIPMENT, THERMOSTATS, MOTORIZED DAMPERS AND PUMPS.
- SUBMIT FOR ENGINEERS APPROVAL SHOP DRAWINGS OF ALL EQUIPMENT.
- SUPPLY O&M MANUALS FOR EQUIPMENT SUPPLIED AND INSTALLED.
- COMPLETE TRAINING TO BE SUPPLIED ON ALL THE EQUIPMENT SUPPLIED AND INSTALLED.

EQUIPMENT LIST

- FURNACE F-1
SUPREME ELECTRIC FURNACE, 1900 CFM @ .20 ESP IN.WC. 23 KW, 240V/1 PH/60 HZ, BLOWER 1HP, 107AMP.

- HEAT RECOVERY UNIT HRV-1
VENMAR CONSTRUCTO 2.0. 189 @ 0.4" ESP WG, C/W CONTROL AIR 15 CONTROLLER. TWO 6" WEATHER HOODS C/W 1/2" MESH SCREEN C/W 3KW ELECTRIC COIL ON THE OA AIR INTAKE COIL COMPLETE SCR, SAIL SWITCH AND DUCT THERMOSTAT.

- RANGE HOOD
BROAN BPI24BLN, 180 CFM @ 7.5 SONE C/W 7" GALVANIZED OR ALUMINUM EXHAUST TO BROAN 634 ROOF CAP.

BUILDING HEAT LOSS: 47KBTUH (13.8KW)
VENTILATION HEAT: 18.8KBTUH (5.5KW)

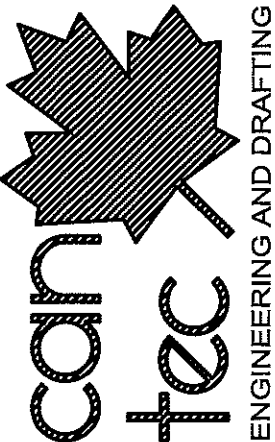
OUTSIDE AIR REQUIREMENTS AS PER ASHRAE STANDARD 62.1-2010
VENTILATION ACCEPTABLE AIR QUALITY

AREA	2800 SQ.FT. @ 0.06 CFM/SQ.FT.	168 CFM
PEOPLE	4 @ 5 CFM/PERSON	20 CFM
		188 CFM

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PROJECT TITLE
RCMP-FALCON LAKE HOUSE

SHEET TITLE
SPECIFICATIONS

CHECKED BY
DATE
DRAWN BY
SCALE
AS NOTED
RS
RQS

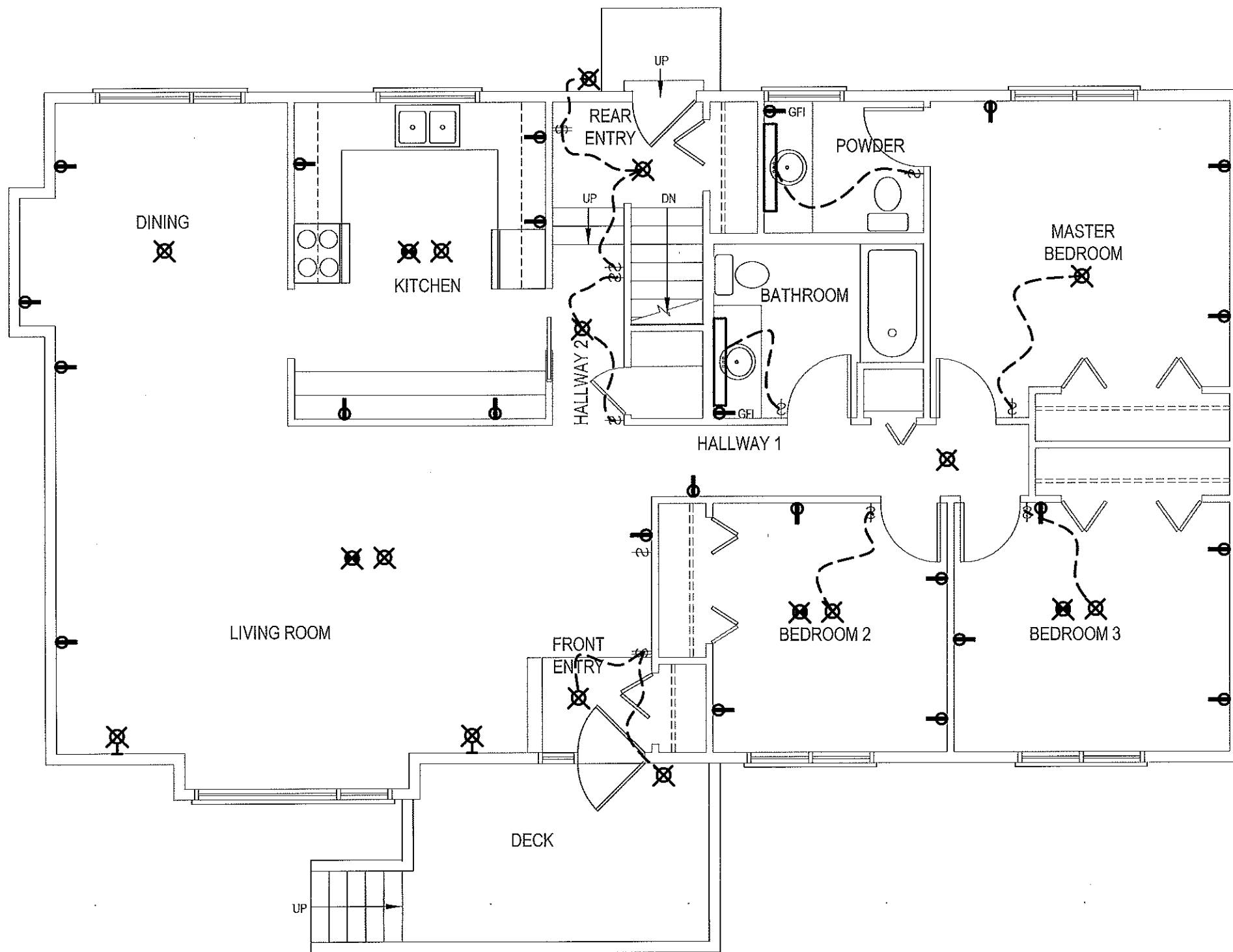
LOCATION
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M2.2

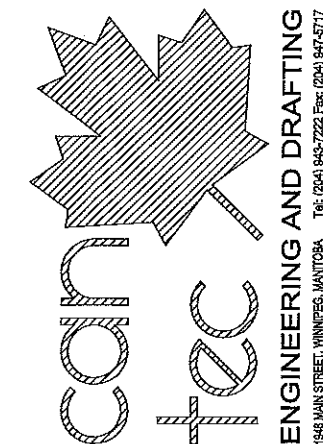
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ELECTRICAL LEGEND:

-  CEILING MOUNTED LIGHT FIXTURE
-  CEILING MOUNTED LIGHT FIXTURE W/ PULL CORD
-  WALL MOUNTED LIGHT FIXTURE
-  DUPLEX OUTLET
-  WEATHERPROOF OUTLET
-  GROUND FAULT INTERRUPT
-  SPECIAL 220V OUTLET
-  EXHAUST FAN
-  SMOKE DETECTOR
-  BASEBOARD HEATER
-  LIGHT SWITCH
-  2 GANG SWITCH
-  3 GANG SWITCH
-  3 WAY SWITCH
-  HEAT VENT



ENGINEERING AND DRAFTING
 1948 MAIN STREET, WINNIPEG, MANITOBA T6E 2G4 (204) 943-7222 Fax: (204) 947-5717
<http://www.can-tecservices.ca/>

PROJECT TITLE: RCMP-FALCON LAKE HOUSE
 SHEET TITLE: ELECTRICAL PLAN
 DATE: 17-07-11
 SCALE: AS NOTED
 LOCATION: 17 FALCON BV, FALCON LAKE, MB
 CHECKED BY: RS
 DRAWN BY: RQS

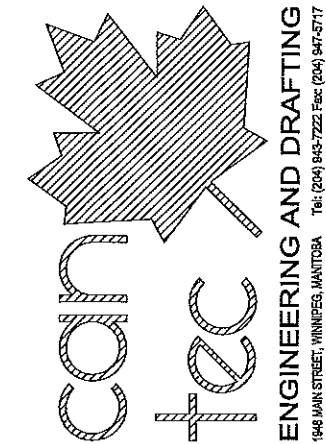
REVISION NO. 01
 ISSUED FOR CONSTRUCTION

E1.0

JOB NO. 17-037-01-11

1 ELECTRICAL PLAN
 E1.0 SCALE: 3/16"=1'-0"

THIS DRAWING MUST NOT BE SCALED.
 THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DATUMS AND LEVELS PRIOR TO COMMENCEMENT OF WORK AND IS HELD RESPONSIBLE FOR REPORTING ANY DISCREPANCY OR OMISSION TO CAN-TEC SERVICES LTD. IMMEDIATELY.
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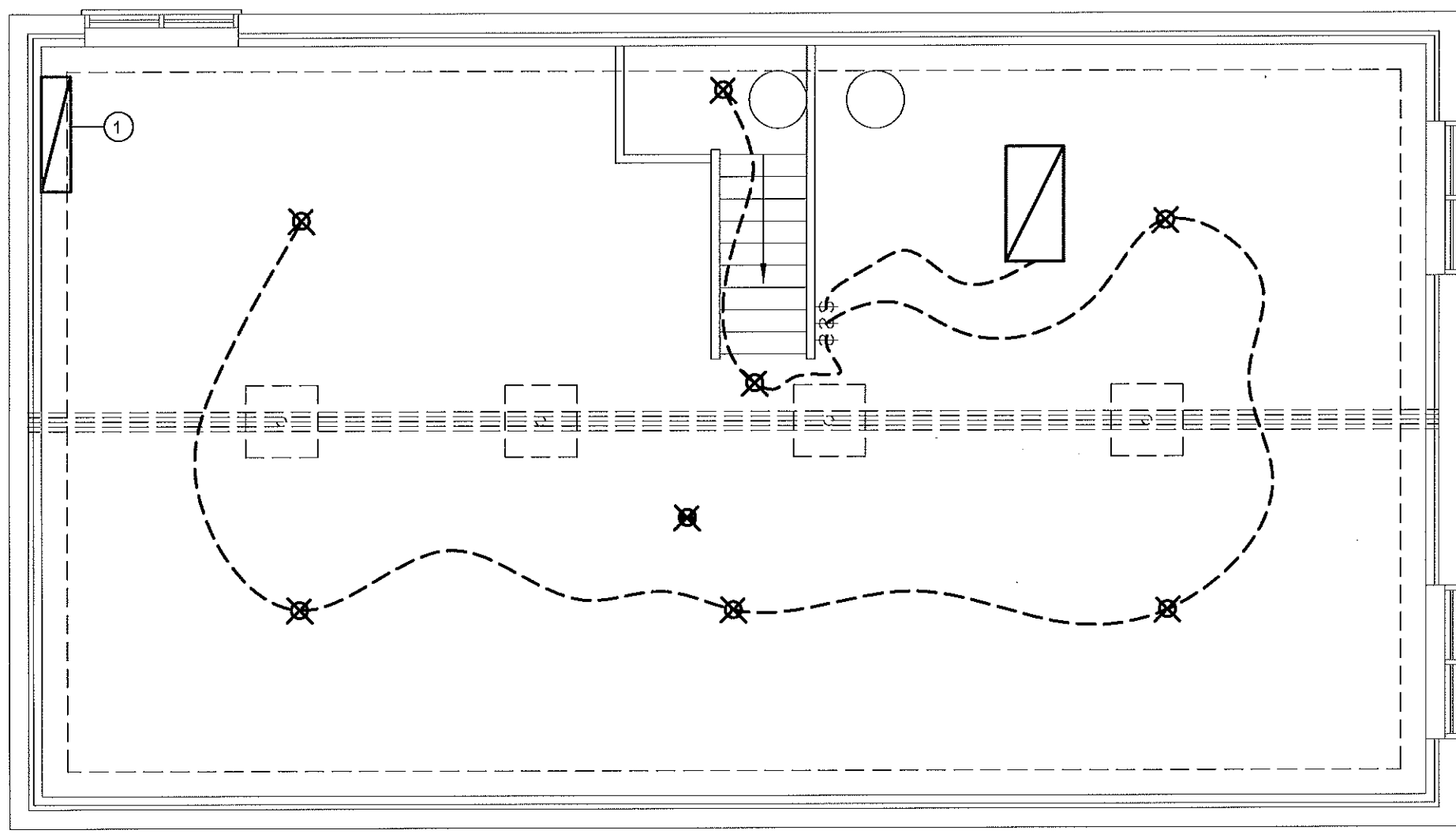


ELECTRICAL LEGEND:

- CEILING MOUNTED LIGHT FIXTURE
- CEILING MOUNTED LIGHT FIXTURE W/ PULL CORD
- WALL MOUNTED LIGHT FIXTURE
- DUPLEX OUTLET
- WEATHERPROOF OUTLET
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- BASEBOARD HEATER
- LIGHT SWITCH
- 2 GANG SWITCH
- 3 GANG SWITCH
- 3 WAY SWITCH
- HEAT VENT

DRAWING NOTES: #

1. INSTALL NEW SERVICE 200A. (REMOVE & REPLACE) EXISTING SERVICE AND PANEL
2. ALL ELECTRICAL WORK TO BE DONE AS PER CANADIAN ELECTRICAL CODE LATEST EDITION



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E1.1

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1 ELECTRICAL PLAN
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