

	TAG MOD					RTU-57 LENN	RTU-56 LENN	RTU-55 LENN		TAG MOD		
						0X 20H4	0X 20H4	0X 20H4		P 		
						240 MBH	240 MBH	240 MBH	INPUT	HEATING		EXIST
јетин)	TOTAL HEAT UTPUT		EXISTIN			192 MB	192 MB	192 MB	OUTPUI	CAPACITY		ING R
(%)	VENT	(NG UN									90F
(V/PH/HZ)	MOTOR	(LENNOX)	IIT HEATE			20 MBH	20 MBH	20 MBH	APACITY NET)	COLING	NNOX)	TOP U
(HP)	POWER		R SCH			4000	4000	4000	(CFM)	AIR VOL		NIT SO
	REMARK		EDULE			575V/3/60	575V/3/60	575V/3/60		POWER		EXISTING ROOF TOP UNIT SCHEDULE
	S				- FACTORY INSTALLED DISCONNECT SWITCH	COOL THERMOSTAT - BELT DRIVE - POWER EXHAUST	- ECONOMIZER - CONTROL TRANSFORMER - 24 VOLT SPACE HEAT/	EACH UNIT TO BE C/W - 50MM DISPOSABLE FILTER - ROOF CURB		REMARKS		
	(V/PH/HZ)	MODEL HEAT HEAT VENT MOTOR INPUT OUTPUT SIZE (BTUH) (BTUH) ("#) (V/PH/HZ)	MODEL HEAT OUTPUT SIZE MOTOR POWER (BTUH) (BTUH) ("ø) (V/PH/HZ) (HP)	MODEL (BTUH) (BTUH) (79) (NIT HEATER SCHEDULE (LENNOX) EXISTING UNIT HEATER SCHEDULE (LENNOX) (LENNOX) (LENNOX) (LENNOX) (MOTOR POWER (MOTOR (MP)	EXISTING UNIT HEATER SCHEDULE MODEL HEAT OUTPUT SIZE MOTOR POWER (BTUH) (BTUH) ("%) (V/PH/HZ) (HP)	EXISTING UNIT HEATER SCHEDULE MODEL HEAT HEAT HEAT HEAT NUTPUT SIZE MOTOR POWER REMARKS (BTUH) (BTUH) ("ø) (V/PH/HZ) (HP)	LENNOX	LENNOX	LENNOX	NPUT OUTPUT CAPACITY (NET) (OFM)	MODEL HEATING CAPACITY COOLING (NET) AIR VOL (OFM)	MODEL HEATING CAPACITY COOLING CAPACITY CAPACIT

ALBERTA BUILDING CODE — LATEST EDITION
ALBERTA FIRE CODE — LATEST EDITION
NATIONAL BUILDING CODE — LATEST EDITION
NATIONAL FIRE CODE — LATEST EDITION
NFPA—13 & ALL OTHER APPLICABLE NFPA SECTIONS
CANADIAN PLUMBING CODE — LATEST EDITION
NATURAL GAS INSTALLATION CODE CGA—B149
SMACNA

DESIGN & INSTALL ALL MECHANICAL SYSTEMS TO THE FOLLOWING CODES AND STANDARDS.

		GRILI	E & D	IFFUSI	GRILLE & DIFFUSER SCHEDULE
		(E H	PRICE (OR APF	(E H PRICE OR APPROVED EQUAL)
AG	SIZE	MODEL	NECK SIZE	FINISH	REMARKS
≻	600 X 600	SCD	SEE DWGS	WHITE	STEEL 3 CONE SQUARE DIFFUSER
Φ	SEE DWGS	520	SEE DWG	WHITE	STEEL DOUBLE DEFLECTION C/W PLENUM FOR DUCT CONNECTION
0	SEE DWGS	535		WHITE	STEEL SINGLE DEFLECTION T/A OR R/A GRILLE.
Е	SEE DWGS	80	-	WHITE	ALUMINUM EGG CRATE GRILLE FOR LAY—IN APPLICATION OR C/W TYPE F BORDER

(VANEE OR APPROVED EQUAL)	HEAT RECOVERY VENTILATORS

CLIENT

DMH Designs Ltd.
117 Royal Oak Green NW
Calgary, Alberta T3G 6A7
Tel: (403) 620—3170
Fax: (403) 208—4185

VISIONS CALGARY, ALBERTA

120V/1/60,

11.7 A

POLYPROPYLENE CORE, 3 SPEED MOTOR, WASHABLE FILTER.

POWER

REMARKS

CO DETECTION SYSTEM

PROVIDE A STAND ALONE CO DETECTION SYSTEM. SYSTEM TO INTERLOCK WITH HRV-1, AS NOTED ON THE DRAWINGS. BY DIV 16.

BY DIV 16.

DRAWN BY

MAY 02/12
CHECKED BY

ZW

DRAWING

NO.

NOTED

HVAC FLOOR SCHEDULES

PLANS

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MECHANICAL

VISIONS ELECTRONICS #390, 5000 EMERALD DR. SHERWOOD PARK, ALBERTA

PROJECT

JOB #: 12-

-743

DWG:

REVISION:

		ISSUED WITH LANDLORDS COMMENTS	ISSUED FOR REVIEW	DESCRIPTION	REVISIONS	
		18/05/12	07/05/12	DATE		
				CK		

ISSUED FOR	O. DESCRIPTION
ISSUED FOR REVIEW ISSUED WITH LANDLORDS COMMENTS). DESCRIPTION
	ISSUED FOR REVIEW

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	ISSUED WITH LANDLORDS COMMENTS	ISSUED FOR REVIEW	DESCRIPTION	REVISIONS	Permit to Practice P1	DRAWING REVIEW: DRAWINGS MUST NOT BE SCALED. THE CONTRACTOR MUST CROSS-REFERENCE ALL DRAWINGS MUST NOT BE SCALED. THE CONTRACTOR MUST CROSS-REFERENCE ALL DRAWINGS ARCHITECTURAL, STRUCTURAL, FOUNDATION, ELECTRICAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS ON SITE. ANY DISCREPANCIES MUST BE REPORTED TO THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK.	COPYRIGHTS: ALL DRAWINGS, DESIGNS AND RELATED DOCUMENTS ARE THE PROPERTY OF THE ENGINEERS, PROTECTED BY COPYRIGHT AND MUST BE RETURNED ON REQUEST. REPRODUCTION OF DRAWINGS AND DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT THE ENGINEERS' PERMISSION. DRAWINGS AND DOCUMENTS ARE INSUED AND ARE NOT TO BE USED ONLY FOR THE PURPOSE FOR WHICH THEY ARE ISSUED AND ARE NOT TO BE USED FOR CONSTRUCTION UNLESS SIGNED BY THE ENGINEER.	PLANS EXAMINATION: PLANS EXAMINATION: BY THE AUTHORITY HAVING JURISDICTION. THIS AUTHORITY, BASED ON APPRIORED BY THE AUTHORITY HAVING JURISDICTION. THIS AUTHORITY, BASED ON APPLICABLE CODES, MAY REQUIRE REVISIONS AND/OR ADDITIONS AND THIS MAY RESULT IN EXTRA COSTS. THESE COSTS ARE UNFORESEEN AND THEREFORE, ARE THE RESPONSIBILITY OF THE OWNER AND/OR CONTRACTOR.	SITE SAFETY: THE ENGINEERS ASSUME NO RESPONSIBILITY FOR ON-SITE THAN THEIR OWN EMPLOYEES. THE OWNER AND/OR CONTRIBUTIONS THE OCCUPATIONS	THE ENGINEERS HAVE BEEN REJAINED ONLY FOR PERIODIC SITE ENSURE GENERAL COMPLIANCE OF THE REVIEWED PORTIONS OF THE CONTRACT DOCUMENTS.
	18/05/12	07/05/12	DATE		0904	CROSS-REFERENCE A MECHANICAL DRAWING S ON SITE, ANY INEER PRIOR TO	E PROPERTY OF THE RAIED ON REQUEST. IN WHOLE IS ODCUMENTS ARE ISSUED AND BY THE ENGINEER.	REVIEWED AND APPR BASED ON APPLICABL HIS MAY RESULT IN EN ARE THE RESPONSIBIL	OR ON-SITE WORKER SAFETY FOR OD OR CONTRACTOR SHALL BEAR OCCUPATIONAL HEALTH AND SAFETY	OF THE PROJECT TO
			CK			χĘ		JTY OF	OTHER Y ACT.	

TOTAL HEAT OUTPUT (KW)

REMARKS

208/1/60

CEILING MOUNTED, FILLY RECESSED, C/W INT. THERMOSTAT

APPROVED

EQUAL)

0.25

FRACT HP

120V/1/60

DIV 16 TO INTERLOCK
WITH WASHROOM LIGHTS
DIV 16 TO INTERLOCK
WITH WASHROOM LIGHTS
DIV 16 TO PROVIDE A
WALL SWITCH

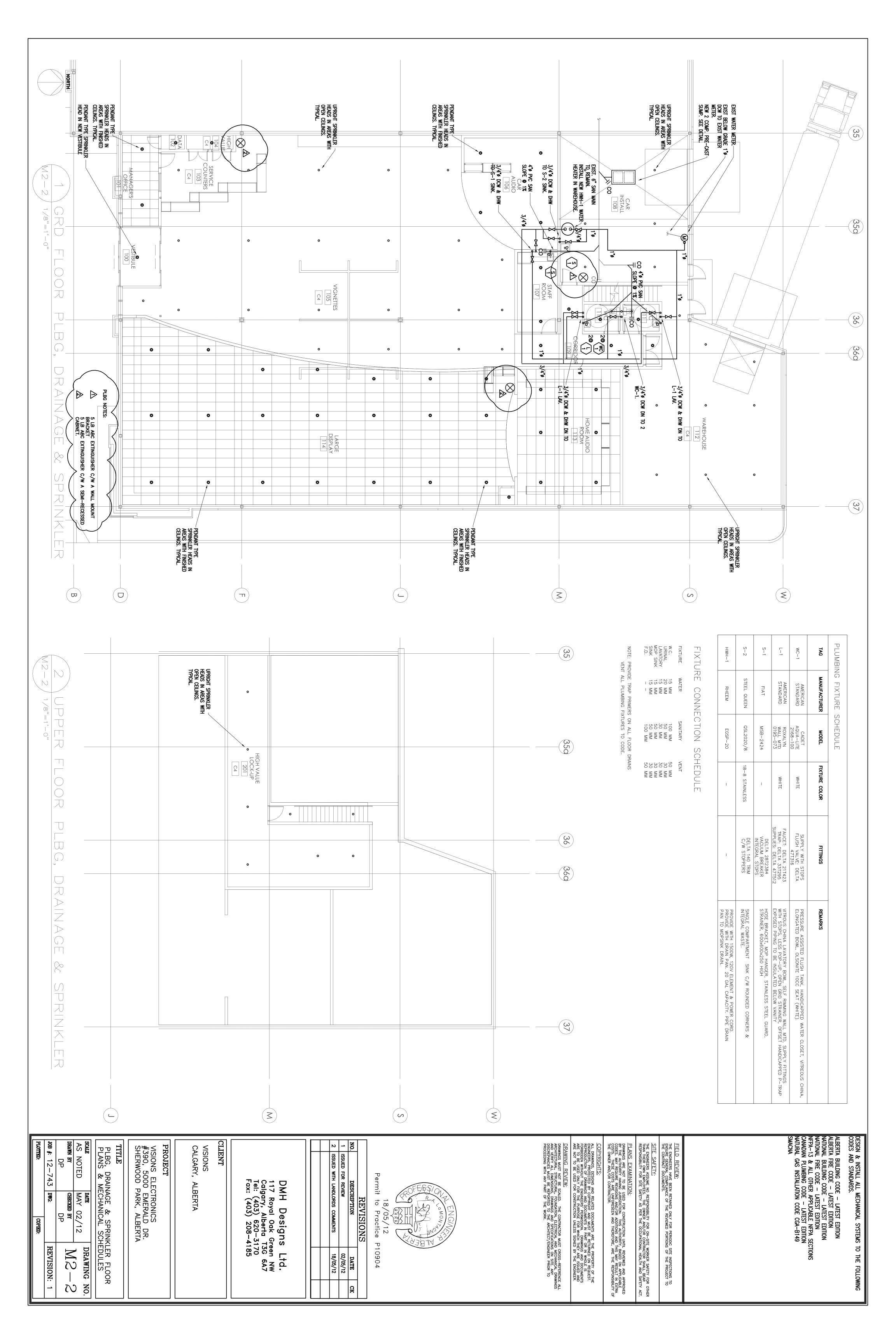
FRACT HP 120V/1/60

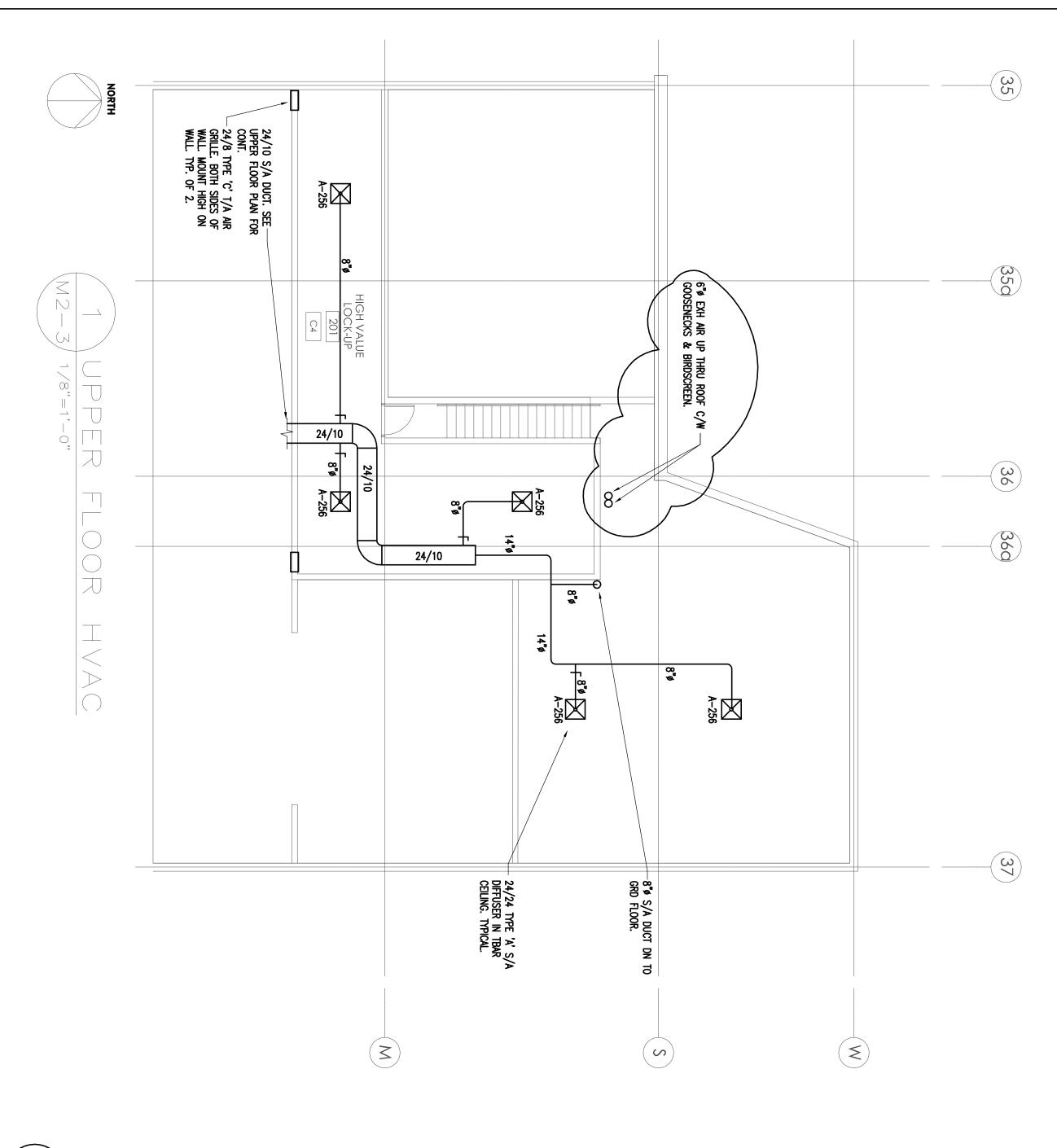
0.25

120V/1/60

HEATER

SCHEDULE





PERFORM WORK GENERALLY IN ACCORDANCE WITH THE STANDARDS OF MATERIALS AND WORKMANSHIP ESTABLISHED IN THE BASE BUILDING CONTRACT DOCUMENTS AND AS FURTHER SPECIFIED.

OBTAIN LANDLORD'S APPROVAL PRIOR TO X—RAYING AND CORE DRILLING FLOOR SLABS. ALL CORE HOLES ARE TO BE SEALED WITH FIRE STOPPING.

FURNISH OWNER WITH A WRITTEN GUARANTEE FOR A PERIOD NOT LESS THAN ONE YEAR FROM DATE OF COMPLETION OF THE WORK.

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PERMITS, CERTIFICATES, CODES AND FEES

SHOP DRAWINGS

AS-BUILT DRAWINGS

CONSTRUCT DUCTWORK IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS — METAL AND FLEXIBLE, LATEST EDITION, TO MATCH BASE BUILDING CONSTRUCTION. INSTALL DAMPERS WHERE SHOWN ON DRAWINGS, AND WHERE REQUIRED, TO PROPERLY BALANCE THE SYSTEM.

PROVIDE FLEXIBLE DUCT CONNECTIONS OF FLEXMASTER TL TRIPLELOCK NOT TO EXCEED 1.5M AT INLETS TO DIFFUSERS AND GRILLES.

INSULATION

INSULATE ALL RECTANGULAR SUPPLY AND RETURN DUCTWORK WITH 25 MM THICK RIGID FIBREGLASS INTERIOR DUCT INSULATION.

INSULATE ALL ROUND SUPPLY DUCTWORK WITH 25 MM FLEXIBLE FOIL FACED FIBREGLASS EXTERIOR DUCT INSULATION.

CONTRACT THE LANDLORD'S APPROVED ROOFING CONTRACTOR PENETRATIONS. CONTRACT:
CHRISTENSEN & MCLEAN ROOFING CO.
ATTN: MR. MURRAY KEMP
16173 - 132 AVE NW
EDMONTON, AB T5V 1H8
(780) 447-1672

EXAMINE THE SITE PRIOR TO SUBMITTING TENDER. REPORT ANY DEFICIENCIES IN THE DOCUMENTS OR CONFLICTS BETWEEN EXISTING STRUCTURE AND PROPOSED WORK, IN WRITING, TO THE CONSULTANT. NO ADDITIONAL COST ALLOWANCE WILL BE MADE FOR CONDITIONS WHICH EXISTED AT TIME OF TENDER.

ENSURE PIPING, DUCTWORK AND OTHER ITEMS CAN BE INSTALLED AS SHOWN PRIOR TO FABRICATION AND INSTALLATION. MAKE CHANGES AT NO COST TO THE OWNER, WHERE WORK IS FABRICATED OR INSTALLED PRIOR TO REACHING A SOLUTION WHERE WORK CONFLICTS WITH THE EXISTING BUILDING OR CONFLICT WITH OTHER TRADES OCCURS.

REUSE REMOVED EQUIPMENT (INCLUDING SPRINKLER HEADS) IN NEW WORK AFTER REPAIRING AND RECONDITIONING ANY DEFECTIVE ITEMS. TURN OVER UNUSED EQUIPMENT TO OWNER. ENSURE REPORTED DEFICIENCIES ARE CORRECTED. REINSPECTION COSTS OF PREVIOUSLY REPORTED DEFICIENCIES WHICH REMAIN AFTER CERTIFICATION OF COMPLETION WILL BE WITHHELD FROM THE CONTRACTOR'S FINAL PAYMENT.

GUARANTEE

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GUARANTEE TO REPLACE OR REPAIR AT NO COST TO THE OWNER ANY DEFECTIVE MATERIAL OR WORKMANSHIP EXCEPT WHERE, IN THE OPINION OF THE ENGINEERS, SUCH DEFECTS ARE DUE TO MISUSE OR NEGLECT BY THE OWNER.

GIVE NECESSARY NOTICES, OBTAIN NECESSARY PERMITS AND PAY REQUIRED FEES AND TAXES IN ORDER THAT THE WORK UNDER THIS CONTRACT MAY BE CARRIED OUT.

SUBMIT SHOP DRAWINGS OF ALL MECHANICAL EQUIPMENT FOR REVIEW PRIOR TO FABRICATION OR PURCHASE.

DUCTWORK PROVIDE ONE MARKED UP SET OF PRINTS OF WORK, INDICATING AS-BUILT CONDITIONS, WITHIN 10 WORKING DAYS AFTER FINAL INSPECTION OF WORK TO THE MECHANICAL CONSULTANT.

MASTIC ALL DUCT JOINTS USING BAKOR DUCK—SEAL POLYMERIC HIGH VELOCITY DUCT SEALER. PATCH EXISTING DUCTWORK WHERE REQUIRED TO MAKE AIRTIGHT. DO NOT USE TAPE.

DUCTWORK LESS THAN 28 GAGE IS NOT ACCEPTABLE.

DUCT DIMENSIONS GIVEN ARE INTERNAL OR FREE AREA DIMENSIONS. ENLARGE DUCTWORK TO ACCOMMODATE INTERNAL INSULATION, WHERE SPECIFIED.

ROOF PENTRATIONS INSULATE THE FIRST 3 M OF EXHAUST SUPPLY DUCTWORK FROM ROOF OR WALL TERMINAL, LOCATED INDOORS, WITH 25 MM FLEXIBLE FOIL FACED FIBREGLASS EXTERIOR DUCT INSULATION. NOT APPLY EXTERNAL INSULATION TO INTERNALLY INSULATED DUCTWORK.

CONTRACT A QUALIFIED AIR BALANCER TO TEST AND BALANCE. CONTRACTOR TO SUBMIT THREE COPIES OF THE BALANCE REPORT TO THE CONSULTANT FOR REVIEW. BE RESPONSIBLE FOR THE COST SHOULD A SECOND AIR BALANCE BE REQUIRED DUE TO MECHANICAL DEFICIENCIES.

USE DIELECTRIC COUPLINGS PROVIDE NEW PIPING MATER CLASS CONDITION. WHERE JOINING FREE FROM

MAKE REDUCTIONS IN DRAIN FITTINGS. NAGE AND

GRADE HORIZONTAL DRAINAGE AND VENT PIPING IN DIRECTION OF ACCORDANCE WITH PLUMBING CODE.

IAGE & VENT ABOVE GRADE

SANITARY DRA 75 MM AND LARGER — PVC—SDR 35 WITH PVC JOINTS.

TYPE L HARD COPPER WITH WROUGHT COPPER TIN/ANTIMONY SOLDER JOINTS. FITTINGS WITH 95/5

GAS PIPING

FIRE PROTECTION -

STEEL SCHEDULE 40 BLA CK WITH SCREWED MALLEABLE

CONNECTIONS

CONNECT TO EXISTING BUILDING SERVICES PIPING WHERE SHOWN ON THE DRAWINGS. COORDINATE WITH BUILDING OPERATIONS STAFF FOR SUITABLE ROUTING AND CONNECTION.

PROVIDE ANGLE STOPS IN PLUMBING FIXTURES. EACH HOT AND COLD WATER CONNECTION TO

CAST BRONZE OR CAST IRON CLEANOUTS WITH RUST RESISTANT REMOVABLE PARTS AND STAINLESS STEEL RETAINING SCREWS. INSULATE DOMESTIC HOT AND COLD WATER LINES WITH 25 MM THICK ONE PIECE OR SECTIONAL, HEAVY DENSITY GLASS FIBRE INSULATION WITH FACTORY APPLIED ALL SERVICE JACKET, FIBREGLAS 850 PIPE INSULATION. MAINTAIN VAPOUR BARRIER ON COLD WATER LINES.

CLEANOUTS

PIPE INSULATION

?

FLOOR DRAINS PROVIDE LACQUERED OR EPOXY COATED CAST IRON BODIED FLOOR DRAINS COMPLETE WITH REVERSIBLE CLAMPING COLLAR AND 165 MM SQUARE, EXTRA HEAVY DUTY NICKEL BRONZE STRAINER IN FINISHED AREAS, ENPOCOE1000ESQ ANCON FD-100-6 1/2SQC.

PROVIDE AUTOMATIC, CHROME PLATED UPRIGHT—TYPE SPRINKLER HEADS GRINNELL MODEL F950. PROVIDE AUTOMATIC, CHROME PLATED, PENDANT—TYPE SPRINKLER HEADS GRINNELL MODEL F950 COMPLETE WITH CHROME ESCUTCHEON PLATES.

CONTRACT LANDLORD'S APPROVED FIRE PROTECTION SYSTEM FOR ALL SPRINKLER WORK. SPRINKLER CONTRACTOR TO SUBMIT CERTIFICATE OF COMPLIANCE WITH THE ALBERTA BUILDING CODE. SUBMIT CERTIFIED SPRINKLER DRAWINGS BEARING THE STAMP OF A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ALBERTA FOR CITY APPROVAL AND PROVIDE ASSURANCE OF FIELD REVIEW AND COMPLIANCE TO THE CITY BUILDING INSCREPTION

HYDROSTATIC TESTING PRESSURE TEST DOMESTIC OF MAXIMUM OPERATING F

LANDLORD'S APPRO FIRE PROTECTION I 6748 - 59TH ST EDMONTON, AB (780) 469-1454

ION INC.
ST NW.

PRESSURE TEST SPRINKLER LINES WITH WATER AT 1400 KPA PRESSURE FOR TWO HOURS WITHOUT LOSS OF PRESSURE. TEST AT MAXIMUM OPERATING PLUS 345 KPA WHERE SYSTEM PRESSURE EXCEEDS 1000 KPA. HOT AND COLD WATER LINES WITH WATER AT 150% RESSURE, FOR SIX HOURS WITHOUT LOSS OF PRESSURE 690 KPA.

PRESSURE TEST NATURAL HAVING JURISDICTION. PIPING AS REQUIRED BY THE AUTHORITIES PIPING MATERIALS

RUST AND DIRT AND IN FIRST

VENT PIPING WITH ECCENTRIC COPPER TO STEEL PIPE

ALBERTA BUILDING CODE — LATEST EDITION
ALBERTA FIRE CODE — LATEST EDITION
NATIONAL BUILDING CODE — LATEST EDITION
NATIONAL FIRE CODE — LATEST EDITION
NFPA—13 & ALL OTHER APPLICABLE NFPA SECTIONS
CANADIAN PLUMBING CODE — LATEST EDITION
NATURAL GAS INSTALLATION CODE CGA—B149
SMACNA

DESIGN & INSTALL ALL CODES AND STANDARDS.

MECHANICAL SYSTEMS TO THE FOLLOWING

PROVIDE CLEANOUTS IN DRAINAGE PIPING IN ACCORDANCE WITH PLUMBING CODE AND IN ACCESSIBLE LOCATIONS.

CHROME PLATE EXPOSED PIPING OF ANY MATERIAL IN WASHROOMS. CONFORM TO THE FOLLOWING SCHEDULE:

65 MM AND SMALLER — DWV COPPER PIPE WITH WROUGHT COPPER OR CAST BRASS FITTINGS & 50/50 LEAD/TIN SOLDER JOINTS. NAGE & VENT BELOW SLAB —

DOMESTIC HOT & COLD WATER FITTINGS AND SOLVENT

STEEL SCHEDULE 40 BLACK PROVIDE WITH THREADED OF EXTERIOR PIPE IS TO BE F TO BE BANDED AS PER CC CK WITH MALLEABLE FITTINGS RATED FOR 1035
OR WELDED JOINTS AS REQUIRED BY CODE. /
PRIMED AND PAINTED YELLOW. ALL INTERIOR
YODE.

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IRON FITTINGS

PLANS EXAMINATION:

PLANS EXAMINATION:

PLANS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL REVIEWED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION. THIS AUTHORITY, BASED ON APPLICABLE CODES, MAY REQUIRE REVISIONS AND/OR ADDITIONS AND THIS MAY RESULT IN EXTRA COSTS. THESE COSTS ARE UNFORESEEN AND THEREFORE, ARE THE RESPONSIBILITY OF THE OWNER AND/OR CONTRACTOR.

THE ENGINEERS ASSUME NO RESPONSIBILITY FOR ON-SITE WORKER SAFETY FOR OTHER THAN THEIR OWN EMPLOYEES. THE OWNER AND/OR CONTRACTOR SHALL BEAR RESPONSIBILITY FOR SITE SAFETY AS PER THE OCCUPATIONAL HEALTH AND SAFETY ACT.

THE ENGINEERS HAVE BEEN RETAINED ONLY FOR PERIODIC SITE INSPECTIONS TO ENSURE GENERAL COMPLIANCE OF THE REVIEWED PORTIONS OF THE PROJECT TO THE CONTRACT DOCUMENTS.

ALL DRAWINGS, DESIGNS AND RELATED DOCUMENTS ARE THE PROPERTY OF THE ENGINEERS, PROTECTED BY COPYRIGHT AND MUST BE RETURNED ON REQUEST. REPRODUCTION OF DRAWINGS AND DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT THE ENGINEERS' PERMISSION. DRAWINGS AND DOCUMENTS ARE TO BE USED ONLY FOR THE PURPOSE FOR WHICH THEY ARE ISSUED AND ARE NOT TO BE USED FOR CONSTRUCTION UNLESS SIGNED BY THE ENGINEER. DRAWING REVIEW:

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Permit 18/05/12 to Practice P10904

	REVISIONS		
NO.	DESCRIPTION	DATE	CK
<u> </u>	ISSUED FOR REVIEW	02/05/12	
2	ISSUED WITH LANDLORDS COMMENTS	18/05/12	

DMH Designs Ltd.

117 Royal Oak Green NW Calgary, Alberta T3G 6A7 Tel: (403) 620—3170 Fax: (403) 208—4185

CLIENT SNOISIA

PROJECT VISIONS ELECTRONICS #390, 5000 EMERALD DR. SHERWOOD PARK, ALBERTA

CALGARY, ALBERTA

TYPE 'B' S/A DIFFUSER. SEE DRAWINGS FOR SIZE

OPPOSED BLADE — BALANCING DAMPER

ANGLE GRILLE DOWN 22.5

OOR NS SNS MFCHANICAL

AS NOTED	SCALE	SPECIFICATION
MAY 02/12	DATE	SPECIFICATION SPECIFICATION
	DRAWING NO	

	COPIED:	PLOTTED:
REVISION: 1	D W G:	JOB #: 12-743 DWG:
	DP	DP
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	MAY 02/12	AS NOTED
DRAWING NO.	DATE	SCALE