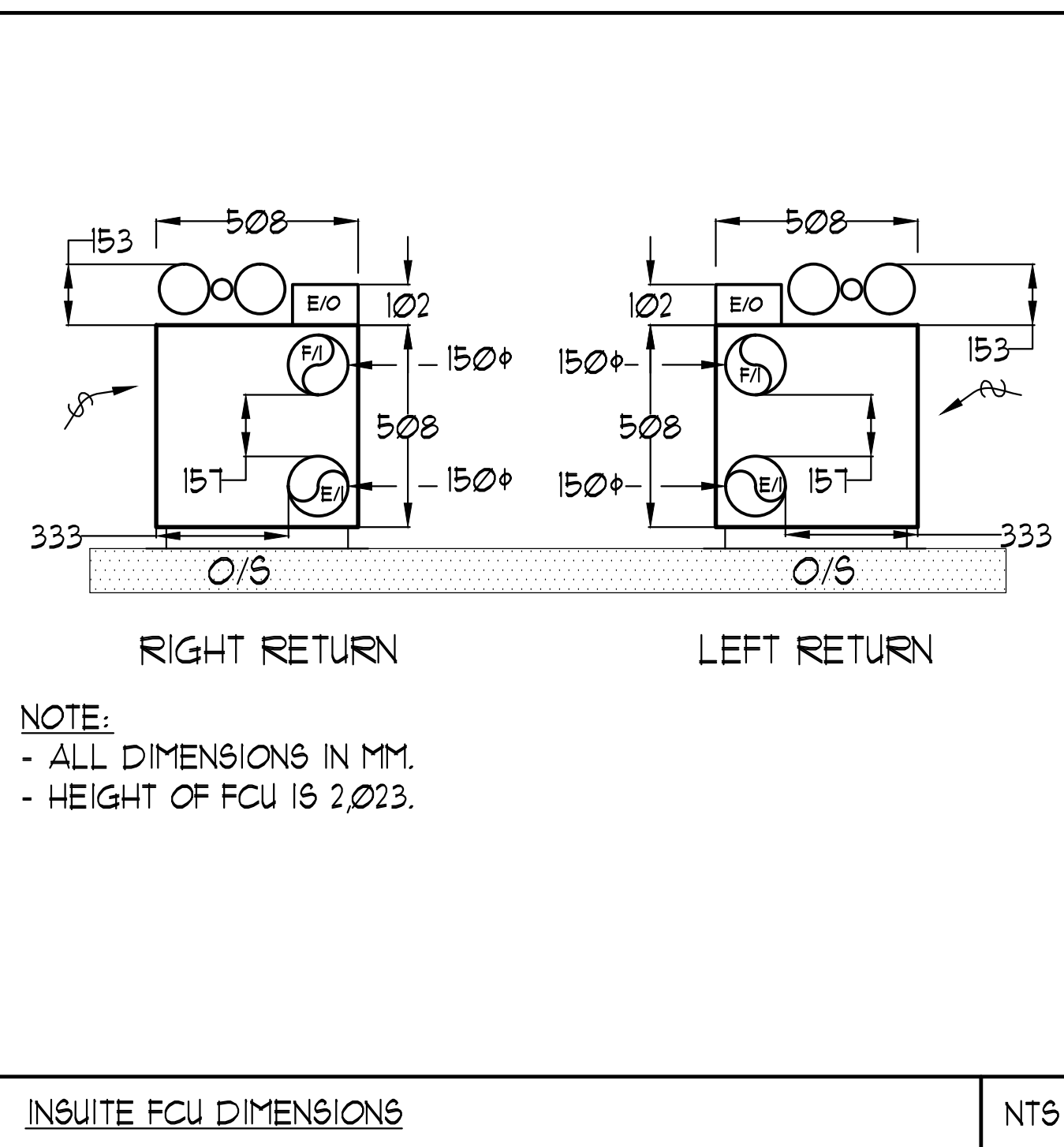
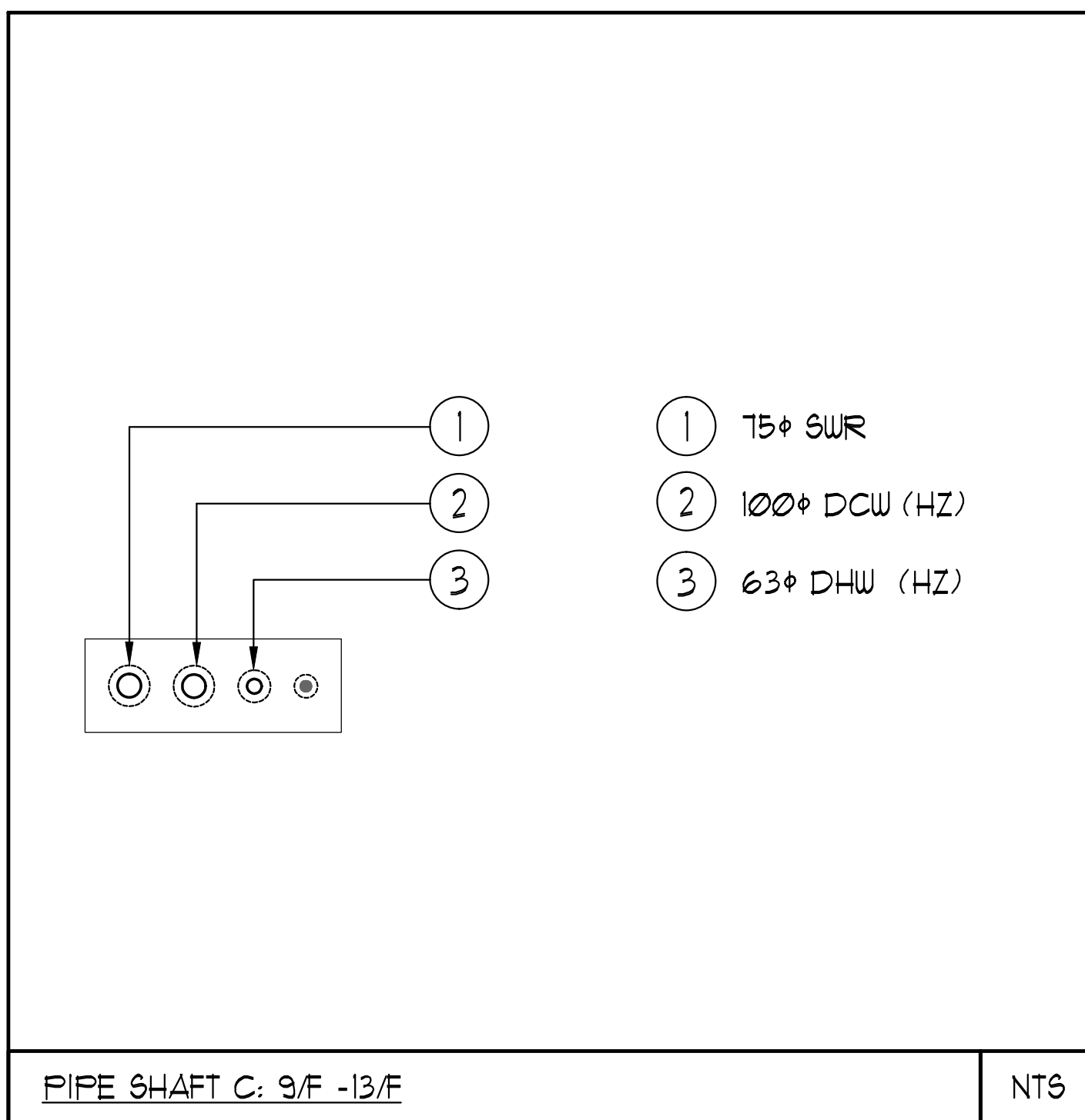
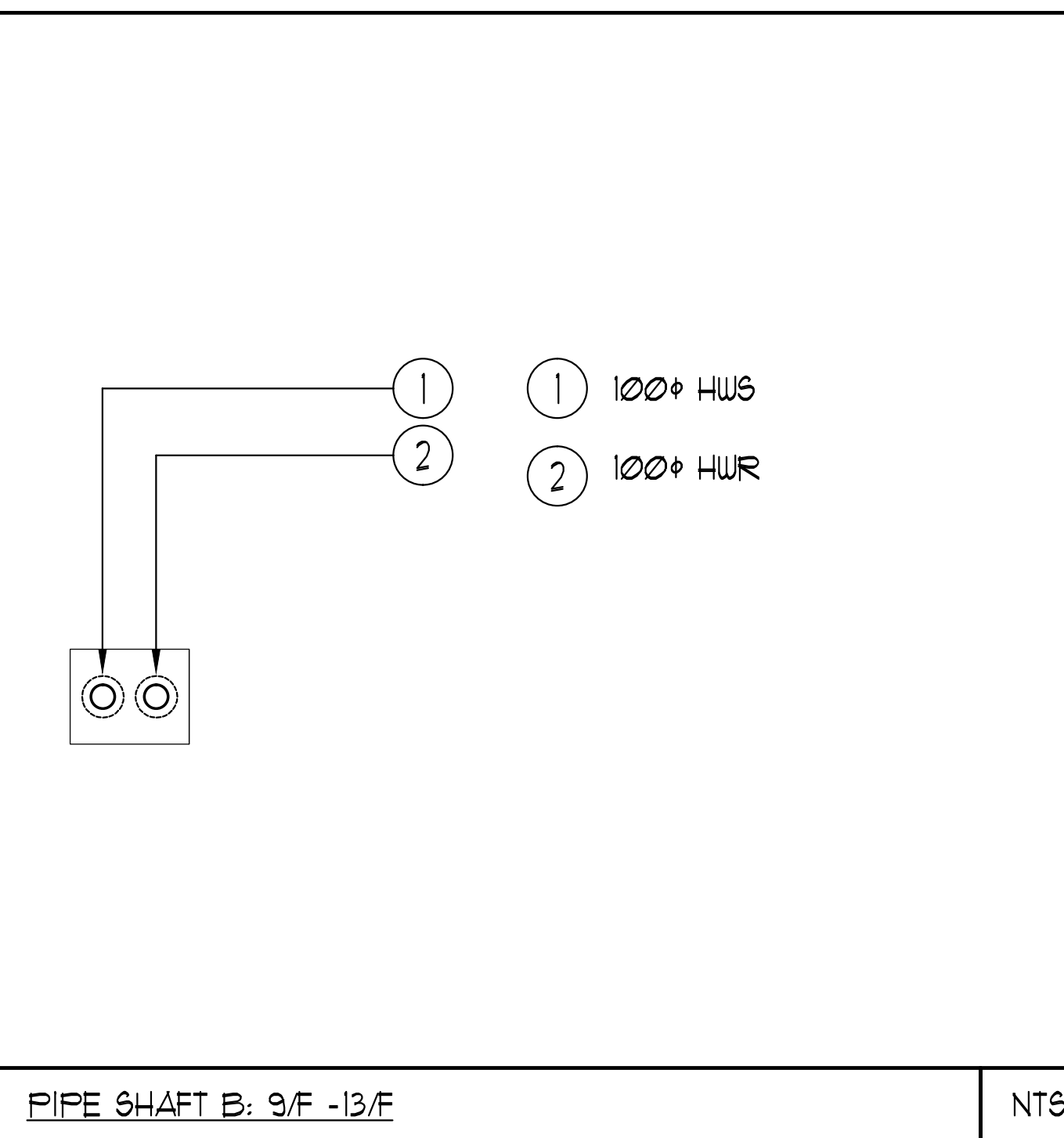
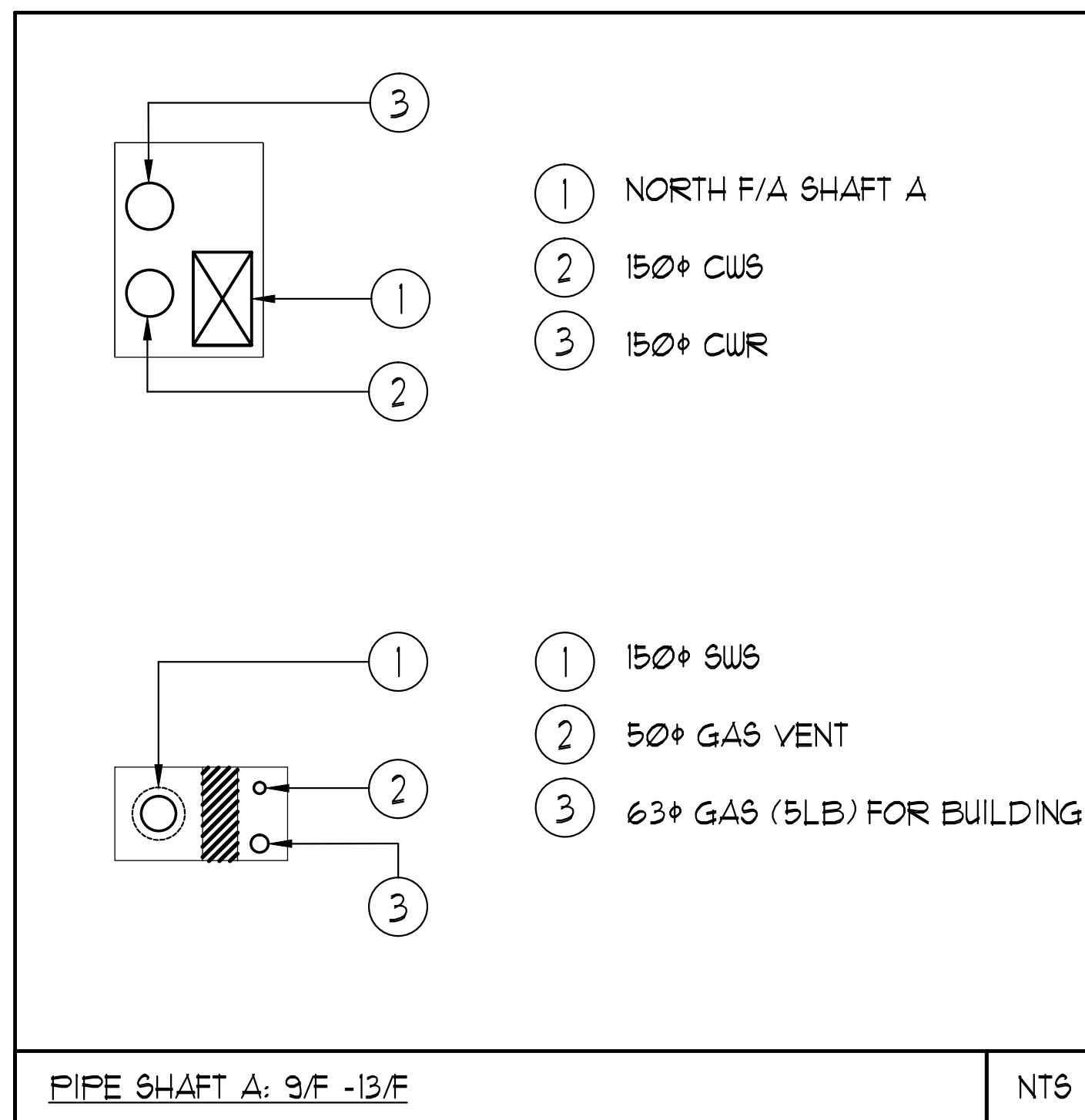




UNIT	NAME	AREA (SQ. FT.)	# OF UR	# OF POWDER	SIZE (T)	FIXTURE UNITS	BR	SQ. FT/T
1101	1A-MR	525	1	0	1	10	1	525
1105	3AT	870	2	0	2	16	3	435
1108	3ATR	870	2	1	2	22	3	435
1111	1C-D2	590	2	0	1	16	1	590
1112	1C-D	590	2	0	1	16	1	590
1113	1C1	500	1	0	1	10	1	500
1114	9I	440	1	0	15	10	STUDIO	293
1119	2J	740	2	0	15	16	2	493
1120	1H	530	1	0	1	10	1	530
1121	2JR	740	2	0	15	16	2	493
1127	1K	545	1	0	1	10	1	545
1128	2B1	605	1	1	1	16	2	605
1129	1A-M	580	1	0	1	10	1	580

- GENERAL NOTES:
- CONTRACTOR SHALL CO-ORDINATE ARCHITECTURAL, STRUCTURAL, LIGHTING, HVAC, SPRINKLER DRAWINGS TO AVOID AREAS OF CONFLICT AND TO MAINTAIN CEILING HEIGHTS.
 - CONTRACTOR SHALL REPORT ALL DISCREPANCIES AND AREA OF CONFLICTS TO THE ENGINEER PRIOR TO WORK BEGINS.
 - PROVIDE EXPANSION CHAMBERS FOR ALL KITCHEN SINKS.
 - SEE INSTALLATION DETAILS DRAWING FOR WASHER DRYER, H4C WATER, SANITARY CONNECTION DETAILS.
 - SUPPLY AND INSTALL COMPLETE DOMESTIC HOT AND COLD WATER LINES, SANITARY AND VENT LINES TO EACH FIXTURE/EQUIPMENT INCLUDING WATER CLOSETS, LAVATORIES, BATHS, SHOWERS, KITCHEN SINK, WASHING MACHINES, DISHWASHERS, AND FLOOR DRAINS, KITCHEN SINK, LAVATORIES, WATER CLOSETS AND WASHING MACHINE TO BE C/W LOCALIZED SHUT-OFF VALVES.
 - ALL VENT PIPE INSTALLATION TO COMPLY WITH PLUMBING CODES.
 - FOR H4C W. RISER SIZES, REFER TO RISER DIAGRAM
 - FIRE DAMPERS ARE REQUIRED TO BE LISTED AND ARE TO HAVE FIRE PROTECTION RATING OF THE PENETRATED FIRE SEPARATION.
 - THE PIPING PENETRATING THE VARIOUS FIRE SEPARATION IS REQUIRED TO BE FIRESTOPPED WITH A LISTED FIRESTOPPING MATERIAL IN ACCORDANCE WITH CBC ARTICLE 313.1
 - THE FIRE HOSE CABINET THAT ARE RECESSED INTO THE EXIT STAIR SHAFTS ARE REQUIRED TO BE SEPARATED FROM THE EXIT STAIR BY A 2 HR FIRE SEPARATION.
 - NO FLEXIBLE DUCT SHALL BE USED FOR ANY IN-SUITE DUCTWORK.
 - PROVIDE 25MM EXTERNAL INSULATION TO ENTIRE FRESH AIR DUCT FROM EXTERIOR WALL TO ERV FAN COIL UNIT.
 - DRYER EXHAUST DUCT SHALL BE SMOOTH AND CORROSION-RESISTANT MATERIAL (FLEXIBLE CONNECTION IS NOT ACCEPTABLE).

- ACOUSTIC NOTES:
- ALL SYSTEM/DOMESTIC PIPE LOOPS OR OFFSETS WHICH ARE 50MM DIA. AND LARGER SHALL BE ISOLATED USING NEOPRENE-IN-SHEAR HANGERS, AND ADDITIONAL 25 MM THICK RIBBED OR WAFFLED NEOPRENE PADS IN THE SADDLES OF CLEVIS HANGERS.
 - ALL PIPES SMALLER THAN 50MM DIA. SHALL BE ISOLATED WITH 5MM THICK RIBBED OR WAFFLED RUBBER PADS IN HANGER SADDLES.
- CLEAR FLOOR TO UNDERSLAB = 2850mm
ALL UNITS CLEAR PRODUCT = 2800mm
EXCEPT UNITS 1113/1114/1121/1128 CLEAR PRODUCT = 2700mm
UNITS 1119/1120/1121/1127: DRAINS FROM TERRACE ON 12/F

- NOTES:
- NORTH F/A SHAFT A FROM G/F TO 14/F DUCT SERVING CORRIDOR FROM 3/F TO 14/F. SEE PRESSURIZATION / VENTILATION RISER DIAGRAM FOR DETAILS.
 - NORTH F/A SHAFT B SERVING FROM G/F TO 14/F DUCT SERVING CORRIDOR FROM G/F TO 14/F. SEE PRESSURIZATION / VENTILATION RISER DIAGRAM FOR DETAILS.
 - PIPE SHAFT - REFER TO PIPE DIAGRAM FOR DETAILS.
 - 150° KITCHEN / DRYER / W/R / FCU INTAKE / FCU EXHAUST DUCT. (TYPICAL UNLESS OTHERWISE NOTED)
 - 15° DHUR
 - 100° RUL DOWN.
 - 100° ST1 91%.
 - 100° RUL FROM ABOVE.
 - 100° RUL FROM ABOVE AND DOWN.
 - 600° GARBAGE CHUTE.
 - 15° GAS PIPE C/W VALVE AND CAP FOR BBQ.
 - 15° DCW FOR NFHB TO BE CONNECTED TO SUITE'S MAIN DOW LINE.

DUCT SIZING TABLE (4.06 m/s, 800 FPM)					
DESIGNATION	L/s	DUCT SIZE	DESIGNATION	L/s	DUCT SIZE
(A)	47	100x150	(G)	183	350x150
(B)	71	150x150	(H)	236	450x150
(C)	94	200x150	(J)	283	500x150
(D)	118	200x150	(K)	330	600x150
(E)	141	250x150	(L)	371	500x200
(F)	165	300x150			

GRILLE SIZING TABLE		
DESIGNATION	SIZE	L/S (UNLESS SPECIFIED OTHERWISE)
SG-A	300x100	47-70
SG-B	300x150	71-93
SG-C	400x150	94-140
SG-D	450x150	141-188
EG-A	150x150	35
W-1	225x200	210mm(L)
W-2	425x200	INSULATED
W-3	625x200	WALL BOX

VERTICAL FAN COIL SIZE		
DESIGNATION	MODEL	W x D
FCU-IT	450	508x660
FCU-15T	600	508x660
FCU-2T	800	508x660
FCU-25T	1000	559x660
FCU-3T	1200	559x660

NOTE:
A MIN OF 125mm IS REQUIRED ON THE SIDE OF PIPE RISER

LEGEND MECHANICAL	
SYMBOL	DESCRIPTION
	SUPPLY AIR DIFFUSER
	LINEAR SUPPLY DIFFUSER
	THERMOSTAT
	FAN SWITCH
	RETURN AIR GRILLE
	EXHAUST AIR GRILLE
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	RETURN DUCT UP
	RETURN DUCT DOWN
	EXHAUST DUCT UP
	EXHAUST DUCT DOWN
	FIRE DAMPER
	BALANCING DAMPER
	MOTORIZED DAMPER
	MOTORIZED FIRE DAMPER
	BACKDRAFT DAMPER
	OPPOSED BLADE VOLUME CONTROL DAMPER
	TURNING VANES
	FLEXIBLE CONNECTION
	ACOUSTIC INSULATION
	TYPE OF EQUIPMENT
	TYPE OF DIFFUSER OR GRILLE
	VOLUTE SIZE OR DIFFUSER NECK SIZE
	JAMBON C/P OR L/S
	STARTER (3 PHASE) - PHASE 1
	FAN SWITCH - IN-SUITE DRY / OUTDOOR BUTTON
	GAS METER
	GAS COOK
	PRESSURE REDUCING VALVE
	SANITARY ABOVE GRADE
	SANITARY BELOW GRADE
	STORM BELOW GRADE
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RECIRCULATION
	SANITARY VENT
	WATER PUMPER
	FLOOR DRAIN
	PANEL FLOOR DRAIN
	HUB DRAIN
	KICK DRAIN
	SUMP DRAIN
	AREA DRAIN
	B-L-LEVEL AREA DRAIN
	CATCH BASIN
	SANITARY TRAP
	ELBOW UP
	ELBOW DOWN
	WALL CLEANOUT
	FLOOR CLEANOUT
	HOSE BIBB
	NON-FREEZE HOSE BIBB
	GLOBE VALVE
	GATE VALVE
	BALL VALVE
	BUTTERFLY VALVE
	PRESSURE REDUCING VALVE
	CHECK VALVE
	COMPRESSED AIR OUTLET
	BACKFLOW PREVENTER
	CIRCUIT BALANCING VALVE
	MULTIPLE PIPES
	DROPPED NO. OF PIPES
	TEMPERATURE SENSOR
	THERMOMETER
	2-WAY MODULATING VALVE
	3-WAY MODULATING VALVE
	1/4-1/2" THERMOWELL
	1/2" BUSHING
	1/2" FLANGE
	FLOOR ELEVATION ABOVE LEVEL
	FLOOR ELEVATION BELOW LEVEL
	HEADROOM (FLOOR TO US) EIGHT

NOVA TREND
115 West Beaver Creek Road, Unit 31
Richmond Hill, Ontario L4B 3M1
Tel: 905-882-5445
Fax: 905-882-5447

REVISIONS

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DRAWING TITLE: MECHANICAL LAYOUT

PROJECT TITLE: SQ ALEXANDRA PARK BLOCK II

35 CAMERON STREET TORONTO

DRAWN BY: G.S. CHECKED BY: E.P. SCALE: 1:50

DATE: FEB, 13 PROJECT NUMBER: 1313 DRAWING NUMBER: M-29 OF 43