



MECHANICAL LAYERS (1 of 14)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
M-ACID-EQPM	20	CONTINUOUS	Acid: equipment
M-ACID-PIPE	10	PR-W LINE ACID (NCS) ACID	Acid: piping
M-ACID-VENT	20	JIS_02_1.2	Acid: vent
M-AFRZ-EQPM	20	CONTINUOUS	Anti-freeze: equipment
M-AFRZ-SPLY-PIPE	20	CONTINUOUS	Anti-freeze: supply: piping
M-AFRZ-WAST-PIPE	20	CONTINUOUS	Anti-freeze: waste: piping
M-ANNO-DIMS	12	CONTINUOUS	Annotation: dimensions
M-ANNO-NPLT	WHITE	CONTINUOUS	Annotation: no plot
M-ANNO-SYMB	12	CONTINUOUS	Annotation: symbols
M-ANNO-TABL	11	CONTINUOUS	Annotation: table
M-ANNO-TEXT	11	SAMPLE TEXT	Annotation: text
M-BRIN-EQPM	80	CONTINUOUS	Brine systems: equipment
M-BRIN-RETN-PIPE	110	PR-RET LINE BRINE (NCS) BR	Brine systems: return: piping
M-BRIN-SPLY-PIPE	110	PR-SPLY LINE BRINE (NCS) B	Brine systems: supply: piping
M-CHEM-EQPM	20	CONTINUOUS	Chemical treatment system equipment
M-CHEM-RETN-PIPE	20	CONTINUOUS	Chemical treatment system return piping
M-CHEM-SPLY-PIPE	20	CONTINUOUS	Chemical treatment system supply piping
M-CHIM	18	CONTINUOUS	Chimneys and stacks
M-CMPA-EQPM	172	CONTINUOUS	Compressed/processed air systems: equipment
M-CMPA-PEQP	172	CONTINUOUS	Compressed/processed air systems: process equipment
M-CMPA-PIPE	170	PR-COMPRESSED AIR LINE (NCS) A	Compressed/processed air systems: piping
M-CMPA-PPIP	172	CONTINUOUS	Compressed/processed air systems: process piping
M-CNDW-EQPM	80	CONTINUOUS	Condenser water systems: equipment
M-CNDW-PIPE	80	CONTINUOUS	Condenser water systems: piping



MECHANICAL LAYERS (2 of 14)

LAYER NAME	COLOUR	LINE TYPE/TEXT SAMPLE	DESCRIPTION
M-CNDW-RETN-PIPE	110	PR-RET LINE CONDENSER WTR (COFC) CWR	Condenser water systems: return: piping
M-CNDW-RETN-SKCH	80	CONTINUOUS	Condenser water systems: return: sketch
M-CNDW-SPLY-PIPE	110	PR-SPLY LINE CONDENSER WTR (COFC) CWS	Condenser water systems: supply: piping
M-CNDW-SPLY-SKCH	80	CONTINUOUS	Condenser water systems: supply: sketch
M-CONT-THER	20	CONTINUOUS	Controls and instrumentation: thermostats
M-CONT-WIRE	20	JIS_02_1.2 -----	Controls and instrumentation: wiring (low voltage)
M-CVAL-BASE	54	CONTINUOUS	Culvert valve: machinery base
M-CVAL-BEAM	54	CONTINUOUS	Culvert valve: beams
M-CVAL-CYLD	80	CONTINUOUS	Culvert valve: machinery cylinder (outline not for details)
M-CVAL-SEAL	80	CONTINUOUS	Culvert valve: seals
M-CVAL-SKIN	20	CONTINUOUS	Culvert valve: skin plate
M-CVAL-STIF	132	CONTINUOUS	Culvert valve: stiffener plates
M-CVAL-TRUN	201	CONTINUOUS	Culvert valve: trunnion beam
M-CWTR-CNDS	167	PR-DR LINE CONDENSATE (COFC) CD	Chilled water systems: condensate piping
M-CWTR-EQPM	172	CONTINUOUS	Chilled water systems: equipment
M-CWTR-RETN-PIPE	170	PR-RET LINE CHILLED WTR (COFC) CHWR	Chilled water systems: return: piping
M-CWTR-RETN-SKCH	172	CONTINUOUS	Chilled water systems: return: sketch
M-CWTR-SPLY-PIPE	170	PR-SPLY LINE CHILLED WTR (COFC) CHWS	Chilled water systems: supply: piping
M-CWTR-SPLY-SKCH	172	CONTINUOUS	Chilled water systems: supply: sketch
M-DETL-1XWD-BLCK	CYAN	CONTINUOUS	Detail: extra wide lines 0.70 mm: black
M-DETL-1XWD-GREY	140	CONTINUOUS	Detail: extra wide lines 0.70 mm: grey
M-DETL-2XWD-BLCK	MAGENTA	CONTINUOUS	Detail: double extra wide lines 1.00 mm: black
M-DETL-2XWD-GREY	213	CONTINUOUS	Detail: double extra wide lines 1.00 mm: grey
M-DETL-DIMS	12	CONTINUOUS	Detail: dimensions



MECHANICAL LAYERS (3 of 14)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
M-DETL-FINE-BLCK	247	CONTINUOUS	Detail: fine lines 0.18 mm: black
M-DETL-FINE-GREY	250	CONTINUOUS	Detail: fine lines 0.18 mm: grey
M-DETL-HTCH	8	CONTINUOUS	Detail: hatch
M-DETL-HTCH-WIDE	34	CONTINUOUS	Detail: hatch (for dot patterns)
M-DETL-MEDM-BLCK	RED	CONTINUOUS	Detail: medium lines 0.35 mm: black
M-DETL-MEDM-GREY	14	CONTINUOUS	Detail: medium lines 0.35 mm: grey
M-DETL-SHDE	9	CONTINUOUS	Detail: shading
M-DETL-TEXT	11	SAMPLE TEXT	Detail: text
M-DETL-THIN-BLCK	50	CONTINUOUS	Detail: thin lines 0.25 mm: black
M-DETL-THIN-GREY	35	CONTINUOUS	Detail: thin lines 0.25 mm: grey
M-DETL-UFIN-BLCK	171	CONTINUOUS	Detail: ultra fine lines 0.05 mm: black
M-DETL-UFIN-GREY	154	CONTINUOUS	Detail: ultra fine lines 0.05 mm: grey
M-DETL-WIDE-BLCK	WHITE	CONTINUOUS	Detail: wide lines 0.50 mm: black
M-DETL-WIDE-GREY	74	CONTINUOUS	Detail: wide lines 0.50 mm: grey
M-DETL-XFIN-BLCK	29	CONTINUOUS	Detail: extra fine lines 0.13 mm: black
M-DETL-XFIN-GREY	8	CONTINUOUS	Detail: extra fine lines 0.13 mm: grey
M-DIAG	RED	CONTINUOUS	Diagram
M-DOMW	160	CONTINUOUS	Domestic water systems
M-DOMW-MKUP	160	CONTINUOUS	Domestic water systems: make-up water
M-DUAL-EQPM	201	CONTINUOUS	Dual temperature systems: equipment
M-DUAL-RETN-PIPE	242	PR-RET LINE DUAL TEMP (NCS) DTR	Dual temperature systems: return: piping
M-DUAL-RETN-SKCH	201	CONTINUOUS	Dual temperature systems: return: sketch
M-DUAL-SPLY-PIPE	242	PR-SPLY LINE DUAL TEMP (NCS) DTS	Dual temperature systems: supply: piping
M-DUAL-SPLY-SKCH	201	CONTINUOUS	Dual temperature systems: supply: sketch



MECHANICAL LAYERS (4 of 14)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
M-DUST-DUCT	205	CONTINUOUS	Dust and fume collection systems: ductwork
M-DUST-DUCT-CNTR	YELLOW	GEN-CENTRE (COFC)	Dust and fume collection systems: ductwork: centreline
M-DUST-EQPM	205	CONTINUOUS	Dust and fume collection systems: equipment
M-DUST-GRIL	205	CONTINUOUS	Dust and fume collection systems: grilles
M-ELEV-1XWD-BLCK	CYAN	CONTINUOUS	Elevation: extra wide lines 0.70 mm: black
M-ELEV-1XWD-GREY	140	CONTINUOUS	Elevation: extra wide lines 0.70 mm: grey
M-ELEV-2XWD-BLCK	MAGENTA	CONTINUOUS	Elevation: double extra wide lines 1.00 mm: black
M-ELEV-2XWD-GREY	213	CONTINUOUS	Elevation: double extra wide lines 1.00 mm: grey
M-ELEV-DIMS	12	CONTINUOUS	Elevation: dimensions
M-ELEV-FINE-BLCK	247	CONTINUOUS	Elevation: fine lines 0.18 mm: black
M-ELEV-FINE-GREY	250	CONTINUOUS	Elevation: fine lines 0.18 mm: grey
M-ELEV-HTCH	8	CONTINUOUS	Elevation: hatch
M-ELEV-HTCH-WIDE	34	CONTINUOUS	Elevation: hatch (for dot patterns)
M-ELEV-MEDM-BLCK	RED	CONTINUOUS	Elevation: medium lines 0.35 mm: black
M-ELEV-MEDM-GREY	14	CONTINUOUS	Elevation: medium lines 0.35 mm: grey
M-ELEV-SHDE	9	CONTINUOUS	Elevation: shading
M-ELEV-TEXT	11	SAMPLE TEXT	Elevation: text
M-ELEV-THIN-BLCK	50	CONTINUOUS	Elevation: thin lines 0.25 mm: black
M-ELEV-THIN-GREY	35	CONTINUOUS	Elevation: thin lines 0.25 mm: grey
M-ELEV-UFIN-BLCK	171	CONTINUOUS	Elevation: ultra fine lines 0.05 mm: black
M-ELEV-UFIN-GREY	154	CONTINUOUS	Elevation: ultra fine lines 0.05 mm: grey
M-ELEV-WIDE-BLCK	WHITE	CONTINUOUS	Elevation: wide lines 0.50 mm: black
M-ELEV-WIDE-GREY	74	CONTINUOUS	Elevation: wide lines 0.50 mm: grey
M-ELEV-XFIN-BLCK	29	CONTINUOUS	Elevation: extra fine lines 0.13 mm: black



MECHANICAL LAYERS (5 of 14)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
M-ELEV-XFIN-GREY	8	CONTINUOUS	Elevation: extra fine lines 0.13 mm: grey
M-ELHT-EQPM	244	CONTINUOUS	Electric heat: equipment
M-ENER-EQPM	35	CONTINUOUS	Energy management systems: equipment
M-ENER-WIRE	35	CONTINUOUS	Energy management systems: wiring
M-EXHS-CDFF	85	CONTINUOUS	Exhaust system: ceiling diffusers
M-EXHS-DUCT	85	CONTINUOUS	Exhaust system: ductwork
M-EXHS-DUCT-CNTR	YELLOW	GEN-CENTRE (COFC)	Exhaust system: ductwork: centreline
M-EXHS-EQPM	85	CONTINUOUS	Exhaust system: equipment
M-EXHS-GRIL	85	CONTINUOUS	Exhaust system: grilles
M-EXHS-RFEQ	85	CONTINUOUS	Exhaust system: rooftop equipment
M-FLOR-IDEN	50	SAMPLE TEXT	Floor: identification
M-FLOR-PENE	80	JIS_02_1.2	Floor: penetrations
M-FUEL-DIES-RETN	54	CONTINUOUS	Fuel systems: diesel return piping
M-FUEL-DIES-VENT	54	CONTINUOUS	Fuel systems: diesel vent piping
M-FUEL-EQPM	54	CONTINUOUS	Fuel systems: equipment
M-FUEL-GGEP	54	CONTINUOUS	Fuel systems: gas general piping
M-FUEL-GGEP-HPIP	54	CONTINUOUS	Fuel systems: gas general piping: high pressure piping
M-FUEL-GGEP-LPIP	54	CONTINUOUS	Fuel systems: gas general piping: low-pressure piping
M-FUEL-GGEP-LQPG	YELLOW	PR-G LINE LP (NCS) G	Fuel systems: gas general piping: liquid petroleum gas
M-FUEL-GGEP-MPIP	54	CONTINUOUS	Fuel systems: gas general piping: medium-pressure piping
M-FUEL-GPRP	54	CONTINUOUS	Fuel systems: gas process piping
M-FUEL-OGEP-DISC	54	CONTINUOUS	Fuel systems: oil general piping: discharge
M-FUEL-OGEP-FLW	54	CONTINUOUS	Fuel systems: oil general piping: flow
M-FUEL-OGEP-GAGE	54	CONTINUOUS	Fuel systems: oil general piping: gauge



MECHANICAL LAYERS (6 of 14)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
M-FUEL-OGEP-RETN	YELLOW	PR-FUEL OIL RET LINE (NCS) FOR	Fuel systems: oil general piping: return
M-FUEL-OGEP-SPLY	YELLOW	PR-FUEL OIL SUCT SPLY LINE (NCS) FOS	Fuel systems: oil general piping: supply
M-FUEL-OGEP-VENT	YELLOW	PR-FUEL OIL TANK VENT LINE (NCS) FOV	Fuel systems: oil general piping: vents
M-FUEL-OPRP	54	CONTINUOUS	Fuel systems: oil process piping
M-FUME	26	CONTINUOUS	Fume hood
M-FUME-DUCT	26	CONTINUOUS	Fume hood: ductwork
M-FUME-EQPM	26	CONTINUOUS	Fume hood: equipment
M-GLYC-EQPM	54	CONTINUOUS	Glycol systems: equipment
M-GLYC-RETN-PIPE	YELLOW	PR-RET LINE GLYCOL HEATING (NCS) GHR	Glycol systems: return: piping
M-GLYC-RETN-SKCH	54	CONTINUOUS	Glycol systems: return: sketch
M-GLYC-SPLY-PIPE	YELLOW	PR-SPLY LINE GLYCOL HEATING (NCS) GHS	Glycol systems: supply: piping
M-GLYC-SPLY-SKCH	54	CONTINUOUS	Glycol systems: supply: sketch
M-GTHP-EQPM	129	CONTINUOUS	Geothermal systems: equipment
M-GTHP-RETN-PIPE	129	CONTINUOUS	Geothermal systems: return piping
M-GTHP-SPLY-PIPE	129	CONTINUOUS	Geothermal systems: supply piping
M-HVAC-BOXD	131	CONTINUOUS	HVAC systems: mixing box, dual duct
M-HVAC-BOXS	131	CONTINUOUS	HVAC systems: mixing box, single duct
M-HVAC-CDFF	131	CONTINUOUS	HVAC systems: ceiling diffusers
M-HVAC-CLDA	131	CONTINUOUS	HVAC systems: cold air
M-HVAC-CLDA-DUCT	131	CONTINUOUS	HVAC systems: cold air: ductwork
M-HVAC-CLDA-EQPM	131	CONTINUOUS	HVAC systems: cold air: equipment
M-HVAC-CLDA-RSCH	131	CONTINUOUS	HVAC systems: cold air: sketch line round or oval duct
M-HVAC-CLDA-SECT	131	CONTINUOUS	HVAC systems: cold air: section
M-HVAC-CLDA-SIZE	131	CONTINUOUS	HVAC systems: cold air: ductwork size



MECHANICAL LAYERS (7 of 14)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
M-HVAC-CLDA-SSCH	131	CONTINUOUS	HVAC systems: cold air: sketch line rectangular duct
M-HVAC-DMPR	37	CONTINUOUS	HVAC systems: fire, smoke, volume damper
M-HVAC-DOOR	80	CONTINUOUS	HVAC systems: doors
M-HVAC-EFAN	37	CONTINUOUS	HVAC systems: electric fans
M-HVAC-EPDU	37	CONTINUOUS	HVAC systems: electricity
M-HVAC-EPIP	37	CONTINUOUS	HVAC systems: piping
M-HVAC-EQPM	54	CONTINUOUS	HVAC systems: equipment
M-HVAC-EQPM-EFAN	54	CONTINUOUS	HVAC systems: equipment: electric fans or motors
M-HVAC-EQPM-EPIP	54	CONTINUOUS	HVAC systems: equipment: piping and electricity
M-HVAC-EQPM-FLOR	54	CONTINUOUS	HVAC systems: equipment: floor mounted
M-HVAC-EQPM-SUSP	54	CONTINUOUS	HVAC systems: equipment: suspended
M-HVAC-EXHS	45	CONTINUOUS	HVAC systems: exhaust air
M-HVAC-EXHS-DUCT	45	CONTINUOUS	HVAC systems: exhaust air: ductwork
M-HVAC-EXHS-EQPM	45	CONTINUOUS	HVAC systems: exhaust air: equipment
M-HVAC-EXHS-GRIL	45	CONTINUOUS	HVAC systems: exhaust air: grilles
M-HVAC-EXHS-RSCH	45	CONTINUOUS	HVAC systems: exhaust air: sketch line round or oval duct
M-HVAC-EXHS-SECT	45	CONTINUOUS	HVAC systems: exhaust air: section
M-HVAC-EXHS-SIZE	45	CONTINUOUS	HVAC systems: exhaust air: ductwork size
M-HVAC-EXHS-SSCH	45	CONTINUOUS	HVAC systems: exhaust air: sketch line rectangular duct
M-HVAC-FDFF	164	CONTINUOUS	HVAC systems: floor diffusers
M-HVAC-HOTA	30	CONTINUOUS	HVAC systems: hot air
M-HVAC-HOTA-DUCT	30	CONTINUOUS	HVAC systems: hot air: ductwork
M-HVAC-HOTA-EQPM	30	CONTINUOUS	HVAC systems: hot air: equipment
M-HVAC-HOTA-RSCH	30	CONTINUOUS	HVAC systems: hot air: sketch line round or oval duct



MECHANICAL LAYERS (8 of 14)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
M-HVAC-HOTA-SECT	30	CONTINUOUS	HVAC systems: hot air: section
M-HVAC-HOTA-SIZE	30	CONTINUOUS	HVAC systems: hot air: ductwork size
M-HVAC-HOTA-SSCH	30	CONTINUOUS	HVAC systems: hot air: sketch line rectangular duct
M-HVAC-IDEN	50	SAMPLE TEXT	HVAC systems: identification
M-HVAC-ODFF	37	CONTINUOUS	HVAC systems: other diffusers
M-HVAC-PIPE	37	CONTINUOUS	HVAC systems: piping
M-HVAC-RDFF	34	CONTINUOUS	HVAC systems: return air diffusers
M-HVAC-RETN	34	CONTINUOUS	HVAC systems: return
M-HVAC-RETN-CNTR	YELLOW	GEN-CENTRE (COFC)	HVAC systems: return: centreline
M-HVAC-RETN-EQPM	34	CONTINUOUS	HVAC systems: return: equipment
M-HVAC-RETN-RSCH	34	CONTINUOUS	HVAC systems: return: sketch line round or oval duct
M-HVAC-RETN-SECT	34	CONTINUOUS	HVAC systems: return: section
M-HVAC-RETN-SIZE	34	CONTINUOUS	HVAC systems: return: ductwork size
M-HVAC-RETN-SSCH	34	CONTINUOUS	HVAC systems: return: sketch line rectangular duct
M-HVAC-ROOF-EQPM	37	CONTINUOUS	HVAC systems: roof mounted: equipment
M-HVAC-SDFF	37	CONTINUOUS	HVAC systems: supply diffusers
M-HVAC-SPLY	132	CONTINUOUS	HVAC systems: supply
M-HVAC-SPLY-CNTR	YELLOW	GEN-CENTRE (COFC)	HVAC systems: supply: centreline
M-HVAC-SPLY-EQPM	132	CONTINUOUS	HVAC systems: supply: equipment
M-HVAC-SPLY-HDUC	132	CONTINUOUS	HVAC systems: supply: high pressure duct
M-HVAC-SPLY-LDUC	132	CONTINUOUS	HVAC systems: supply: low pressure duct
M-HVAC-SPLY-RSCH	132	CONTINUOUS	HVAC systems: supply: sketch line round or oval duct
M-HVAC-SPLY-SECT	132	CONTINUOUS	HVAC systems: supply: section
M-HVAC-SPLY-SIZE	132	CONTINUOUS	HVAC systems: supply: ductwork size



MECHANICAL LAYERS (9 of 14)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
M-HVAC-SPLY-SSCH	132	CONTINUOUS	HVAC systems: supply: sketch line rectangular duct
M-HVAC-TAGS	50	CONTINUOUS	HVAC systems: tags
M-HVAC-VALV	54	CONTINUOUS	HVAC systems: valves
M-HVAC-WDFF	54	CONTINUOUS	HVAC systems: wall diffusers
M-HWTR-EQPM	20	CONTINUOUS	Hot water heating system: equipment
M-HWTR-PIPE	20	CONTINUOUS	Hot water heating system: piping
M-HWTR-RETN	20	CONTINUOUS	Hot water heating system: return
M-HWTR-RETN-PIPE	RED	PR-RET LINE LOW TEMP HW (NCS) HWR	Hot water heating system: return: piping
M-HWTR-RETN-SKCH	20	CONTINUOUS	Hot water heating system: return: sketch
M-HWTR-SPLY	20	CONTINUOUS	Hot water heating system: supply
M-HWTR-SPLY-PIPE	RED	PR-SPLY LINE LOW TEMP HW (NCS) HWS	Hot water heating system: supply: piping
M-HWTR-SPLY-SKCH	20	CONTINUOUS	Hot water heating system: supply: sketch
M-INSL-EQPM	20	CONTINUOUS	Insulating oil: equipment
M-INSL-RETN-PIPE	20	CONTINUOUS	Insulating oil: return: piping
M-INSL-SPLY-PIPE	20	CONTINUOUS	Insulating oil: supply: piping
M-LGAS	54	CONTINUOUS	Laboratory gas systems
M-LGAS-EQPM	54	CONTINUOUS	Laboratory gas systems: equipment
M-LGAS-PIPE	YELLOW	CONTINUOUS	Laboratory gas systems: piping
M-LUBE-EQPM	20	CONTINUOUS	Lubrication oil: equipment
M-LUBE-RETN-PIPE	20	CONTINUOUS	Lubrication oil: return: piping
M-LUBE-SPLY-PIPE	20	CONTINUOUS	Lubrication oil: supply: piping
M-MACH-AXLE	54	CONTINUOUS	Machine shop: axles
M-MACH-BASE	54	CONTINUOUS	Machine shop: bases
M-MACH-BEAR	54	CONTINUOUS	Machine shop: bearings and couplings



MECHANICAL LAYERS (10 of 14)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
M-MACH-BELT	245	CONTINUOUS	Machine shop: belts
M-MACH-BSHG	54	CONTINUOUS	Machine shop: bushings
M-MACH-CLEV	245	CONTINUOUS	Machine shop: clevises
M-MACH-COMP	54	CONTINUOUS	Machine shop: components
M-MACH-COVR	132	CONTINUOUS	Machine shop: covers, cover plates, and guarding
M-MACH-FSTN	54	CONTINUOUS	Machine shop: fasteners, nuts, and bolts
M-MACH-GEAR	201	CONTINUOUS	Machine shop: gears
M-MACH-HRAL	245	CONTINUOUS	Machine shop: handrails/guard rails
M-MACH-KEYS	245	CONTINUOUS	Machine shop: keys and keeper plates
M-MACH-LROT	201	CONTINUOUS	Machine shop: large rotating machinery (turbine and pumps)
M-MACH-MOTR	201	CONTINUOUS	Machine shop: motors
M-MACH-PINS	245	CONTINUOUS	Machine shop: pins
M-MACH-PULL	245	CONTINUOUS	Machine shop: pulleys, drums, and sheaves
M-MACH-ROLL	245	CONTINUOUS	Machine shop: rollers and wheels
M-MACH-ROLL-TRAK	245	CONTINUOUS	Machine shop: roller: track
M-MACH-SEAL	245	CONTINUOUS	Machine shop: seals
M-MACH-SHOE	245	CONTINUOUS	Machine shop: sliding shoes, skids, etc.
M-MACH-SPRG	245	CONTINUOUS	Machine shop: springs
M-MACH-SUPT	54	CONTINUOUS	Machine shop: support brackets
M-MAIR-DUCT	54	CONTINUOUS	Mixed air: ductwork
M-MAIR-DUCT-CNTR	YELLOW	GEN-CENTRE (COFC)	Mixed air: ductwork: centreline
M-MAIR-EQPM	54	CONTINUOUS	Mixed air: equipment
M-MDGS-CAIR	YELLOW	PR-COMPRESSED AIR LINE (NCS) A	Medical gas systems: compressed air
M-MDGS-EQPM	54	CONTINUOUS	Medical gas systems: equipment



MECHANICAL LAYERS (11 of 14)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
M-MDGS-NITG	YELLOW	PR-NITROGEN LINE (NCS) N	Medical gas systems: nitrogen
M-MDGS-NOXG	YELLOW	PR-NITROUS OXIDE LINE (NCS) NO	Medical gas systems: nitrous oxide
M-MDGS-OXYG	YELLOW	PR-O LINE (NCS) O	Medical gas systems: pure O2
M-MDGS-SAIR	YELLOW	CONTINUOUS	Medical gas systems: scavenge air
M-MDGS-VACU	YELLOW	PR-VAC AIR LINE (NCS) VAC	Medical gas systems: vacuum
M-MITR-BASE	54	CONTINUOUS	Miter: base
M-MITR-CLEV	245	CONTINUOUS	Miter: clevises
M-MITR-CRNG	80	CONTINUOUS	Miter: cardanic ring
M-MITR-CYLD	80	CONTINUOUS	Miter: cylinder
M-MITR-TRUN	20	CONTINUOUS	Miter: trunnion
M-MKUP-CDFF	54	CONTINUOUS	Make-up air systems: ceiling diffusers
M-MKUP-DUCT	54	CONTINUOUS	Make-up air systems: ductwork
M-MKUP-DUCT-CNTR	YELLOW	GEN-CENTRE (COFC)	Make-up air systems: ductwork: centreline
M-MKUP-EQPM	54	CONTINUOUS	Make-up air systems: equipment
M-MKUP-GRIL	54	CONTINUOUS	Make-up air systems: grilles
M-MPIP-EQPM	54	CONTINUOUS	Miscellaneous piping systems: equipment
M-MPIP-PIPE	YELLOW	CONTINUOUS	Miscellaneous piping systems: piping
M-MPIP-STRC	54	CONTINUOUS	Miscellaneous piping systems: structure
M-MPIP-VALV	54	CONTINUOUS	Miscellaneous piping systems: valves
M-NGAS	54	CONTINUOUS	Natural gas systems
M-NGAS-EQPM	54	CONTINUOUS	Natural gas systems: equipment
M-NGAS-PIPE	YELLOW	PR-G LINE LPG (NCS) LPG	Natural gas systems: piping
M-PROC-EQPM	20	CONTINUOUS	Process systems: equipment
M-PROC-RETN-PIPE	20	CONTINUOUS	Process systems: return: piping



MECHANICAL LAYERS (12 of 14)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
M-PROC-SPLY-PIPE	20	CONTINUOUS	Process systems: supply: piping
M-RAIR-DUCT	20	CONTINUOUS	Relief air systems: ductwork
M-RAIR-DUCT-CNTR	YELLOW	GEN-CENTRE (COFC)	Relief air systems: ductwork: centreline
M-RAIR-EQPM	20	CONTINUOUS	Relief air systems: equipment
M-RAIR-GRIL	20	CONTINUOUS	Relief air systems: grilles
M-RCOV-EQPM	205	CONTINUOUS	Energy recovery systems: equipment
M-RCOV-RETN-PIPE	205	CONTINUOUS	Energy recovery systems: return: piping
M-RCOV-SPLY-PIPE	205	CONTINUOUS	Energy recovery systems: supply: piping
M-REFG-DISC	RED	PR-REFR DISCHG LINE (NCS) RD	Refrigeration systems: discharge
M-REFG-EQPM	20	CONTINUOUS	Refrigeration systems: equipment
M-REFG-RETN-PIPE	RED	PR-REFR SUCT LINE (NCS) RS	Refrigeration systems: return: piping
M-REFG-SPLY-PIPE	RED	PR-REFR LIQ LINE (NCS) RL	Refrigeration systems: supply: piping
M-REFR	WHITE	CONTINUOUS	Reference: external files (images, pdfs, xrefs, etc)
M-ROOF-PENE	20	JIS_02_1.2	Roof: penetrations
M-RWTR-EQPM	87	CONTINUOUS	Raw water systems: equipment
M-RWTR-RETN-PIPE	87	CONTINUOUS	Raw water systems: return: piping
M-RWTR-SPLY-PIPE	87	CONTINUOUS	Raw water systems: supply: piping
M-SECT-1XWD-BLCK	CYAN	CONTINUOUS	Section: extra wide lines 0.70 mm: black
M-SECT-1XWD-GREY	140	CONTINUOUS	Section: extra wide lines 0.70 mm: grey
M-SECT-2XWD-BLCK	MAGENTA	CONTINUOUS	Section: double extra wide lines 1.00 mm: black
M-SECT-2XWD-GREY	213	CONTINUOUS	Section: double extra wide lines 1.00 mm: grey
M-SECT-DIMS	12	CONTINUOUS	Section: dimensions
M-SECT-FINE-BLCK	247	CONTINUOUS	Section: fine lines 0.18 mm: black
M-SECT-FINE-GREY	250	CONTINUOUS	Section: fine lines 0.18 mm: grey



MECHANICAL LAYERS (13 of 14)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
M-SECT-HTCH	8	CONTINUOUS	Section: hatch
M-SECT-HTCH-WIDE	34	CONTINUOUS	Section: hatch (for dot patterns)
M-SECT-MEDM-BLCK	RED	CONTINUOUS	Section: medium lines 0.35 mm: black
M-SECT-MEDM-GREY	14	CONTINUOUS	Section: medium lines 0.35 mm: grey
M-SECT-SHDE	9	CONTINUOUS	Section: shading
M-SECT-TEXT	11	SAMPLE TEXT	Section: text
M-SECT-THIN-BLCK	50	CONTINUOUS	Section: thin lines 0.25 mm: black
M-SECT-THIN-GREY	35	CONTINUOUS	Section: thin lines 0.25 mm: grey
M-SECT-UFIN-BLCK	171	CONTINUOUS	Section: ultra fine lines 0.05 mm: black
M-SECT-UFIN-GREY	154	CONTINUOUS	Section: ultra fine lines 0.05 mm: grey
M-SECT-VIEW	110	CONTINUOUS	Section: view
M-SECT-VIEW-GRID-MAJR	250	CONTINUOUS	Section: view: grid: major
M-SECT-VIEW-GRID-MINR	253	CONTINUOUS	Section: view: grid: minor
M-SECT-VIEW-TEXT	11	SAMPLE TEXT	Section: view: text
M-SECT-WIDE-BLCK	WHITE	CONTINUOUS	Section: wide lines 0.50 mm: black
M-SECT-WIDE-GREY	74	CONTINUOUS	Section: wide lines 0.50 mm: grey
M-SECT-XFIN-BLCK	29	CONTINUOUS	Section: extra fine lines 0.13 mm: black
M-SECT-XFIN-GREY	8	CONTINUOUS	Section: extra fine lines 0.13 mm: grey
M-SMOK-CDFF	54	CONTINUOUS	Smoke extraction systems: ceiling diffusers
M-SMOK-DUCT	54	CONTINUOUS	Smoke extraction systems: ductwork
M-SMOK-EQPM	54	CONTINUOUS	Smoke extraction systems: equipment
M-SPCL-EQPM	54	CONTINUOUS	Special systems: equipment
M-SPCL-PIPE	YELLOW	CONTINUOUS	Special systems: piping
M-STEM-BLBD-PIPE	22	PR-BLR BLOW DOWN LINE (NCS) BBD	Steam system: boiler blow down piping: piping



MECHANICAL LAYERS (14 of 14)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
M-STEM-CNDS	22	PR-DR LINE CONDENSATE (COFC) CD	Steam system: condensate piping
M-STEM-CNDS-SKCH	232	CONTINUOUS	Steam system: condensate piping: sketch
M-STEM-EQPM	232	CONTINUOUS	Steam system: equipment
M-STEM-HPIP	22	PR-SPLY LINE H PRESS STEAM (NCS) HPS	Steam system: high-pressure piping
M-STEM-HPIP-SKCH	232	CONTINUOUS	Steam system: high-pressure piping: sketch
M-STEM-LPIP	22	PR-STEAM LINE LOW PRESS (NCS) LPS	Steam system: low-pressure piping
M-STEM-LPIP-SKCH	232	CONTINUOUS	Steam system: low-pressure piping: sketch
M-STEM-MPIP	22	PR-STEAM LINE MEDIUM PRESS (NCS) MPS	Steam system: medium-pressure piping
M-STEM-MPIP-SKCH	232	CONTINUOUS	Steam system: medium-pressure piping: sketch
M-TAIR-DUCT	201	CONTINUOUS	Transfer air systems: ductwork
M-TAIR-DUCT-CNTR	YELLOW	GEN-CENTRE (COFC)	Transfer air systems: ductwork: centreline
M-TAIR-EQPM	201	CONTINUOUS	Transfer air systems: equipment
M-TEST	RED	CONTINUOUS	Test equipment
M-WALL-PENE	20	JIS_02_1.2 -----	Wall: penetrations