



## PROCESS LAYERS (1 of 6)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
D-AIR~-AA~~	50	CONTINUOUS	Air: agitation air system
D-AIR~-BA~~	51	CONTINUOUS	Air: breathable air system
D-AIR~-CA~~	54	CONTINUOUS	Air: compressed air system
D-AIR~-CDA~	56	CONTINUOUS	Air: clean dry air system
D-AIR~-HCDA	56	CONTINUOUS	Air: high pressure clean dry air system
D-AIR~-IA~~	57	CONTINUOUS	Air: instrument air system
D-AIR~-OA~~	58	CONTINUOUS	Air: outside air system
D-AIR~-OFA~	59	CONTINUOUS	Air: oil free air system
D-AIR~-PA~~	60	CONTINUOUS	Air: plant air system
D-AIR~-V~~~	61	CONTINUOUS	Air: vent system
D-ANNO-DIMS	12	CONTINUOUS	Annotation: dimensions
D-ANNO-NPLT	WHITE	CONTINUOUS	Annotation: no plot
D-ANNO-SYMB	12	CONTINUOUS	Annotation: symbols
D-ANNO-TABL	11	CONTINUOUS	Annotation: table
D-ANNO-TEXT	11	SAMPLE TEXT	Annotation: text
D-CHEM-ARC~	202	CONTINUOUS	Chemical: regenerative caustic system
D-CHEM-C~~~	205	CONTINUOUS	Chemical: caustic soda system
D-CHEM-DEV~	208	CONTINUOUS	Chemical: developer system
D-CHEM-EG~~	212	CONTINUOUS	Chemical: ethylene glycol system
D-CHEM-H2O2	222	CONTINUOUS	Chemical: hydrogen peroxide system
D-CHEM-HCL~	225	CONTINUOUS	Chemical: hydrochloric acid system
D-CHEM-HF~~	226	CONTINUOUS	Chemical: hydrofluoric acid system
D-CHEM-IPA~	229	CONTINUOUS	Chemical: isopropyl alcohol system
D-CHEM-PHOS	235	CONTINUOUS	Chemical: phosphoric acid system



## PROCESS LAYERS (2 of 6)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
D-CHEM-RER~	236	CONTINUOUS	Chemical: solvent system
D-CHEM-SULF	237	CONTINUOUS	Chemical: sulfuric acid system
D-CHEM-TMAH	238	CONTINUOUS	Chemical: tmah system
D-DETL-1XWD-BLCK	CYAN	CONTINUOUS	Detail: extra wide lines 0.70 mm: black
D-DETL-1XWD-GREY	140	CONTINUOUS	Detail: extra wide lines 0.70 mm: grey
D-DETL-2XWD-BLCK	MAGENTA	CONTINUOUS	Detail: double extra wide lines 1.00 mm: black
D-DETL-2XWD-GREY	213	CONTINUOUS	Detail: double extra wide lines 1.00 mm: grey
D-DETL-DIMS	12	CONTINUOUS	Detail: dimensions
D-DETL-FINE-BLCK	247	CONTINUOUS	Detail: fine lines 0.18 mm: black
D-DETL-FINE-GREY	250	CONTINUOUS	Detail: fine lines 0.18 mm: grey
D-DETL-HTCH	8	CONTINUOUS	Detail: hatch
D-DETL-HTCH-WIDE	34	CONTINUOUS	Detail: hatch (for dot patterns)
D-DETL-MEDM-BLCK	RED	CONTINUOUS	Detail: medium lines 0.35 mm: black
D-DETL-MEDM-GREY	14	CONTINUOUS	Detail: medium lines 0.35 mm: grey
D-DETL-SHDE	9	CONTINUOUS	Detail: shading
D-DETL-TEXT	11	SAMPLE TEXT	Detail: text
D-DETL-THIN-BLCK	50	CONTINUOUS	Detail: thin lines 0.25 mm: black
D-DETL-THIN-GREY	35	CONTINUOUS	Detail: thin lines 0.25 mm: grey
D-DETL-UFIN-BLCK	171	CONTINUOUS	Detail: ultra fine lines 0.05 mm: black
D-DETL-UFIN-GREY	154	CONTINUOUS	Detail: ultra fine lines 0.05 mm: grey
D-DETL-WIDE-BLCK	WHITE	CONTINUOUS	Detail: wide lines 0.50 mm: black
D-DETL-WIDE-GREY	74	CONTINUOUS	Detail: wide lines 0.50 mm: grey
D-DETL-XFIN-BLCK	29	CONTINUOUS	Detail: extra fine lines 0.13 mm: black
D-DETL-XFIN-GREY	8	CONTINUOUS	Detail: extra fine lines 0.13 mm: grey



## PROCESS LAYERS (3 of 6)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
D-DRAN-AMW~	88	CONTINUOUS	Drains: ammonia waste system
D-DRAN-CD~~	89	CONTINUOUS	Drains: condensate drain system
D-DRAN-CLW~	91	CONTINUOUS	Drains: concentrated lead waste system
D-DRAN-CMW~	92	CONTINUOUS	Drains: concentrated metals waste system
D-DRAN-CUPW	93	CONTINUOUS	Drains: copper plating waste system
D-DRAN-CURW	95	CONTINUOUS	Drains: copper rinse waste system
D-DRAN-CUSW	96	CONTINUOUS	Drains: copper slurry waste system
D-DRAN-DIRC	97	CONTINUOUS	Drains: DI reclaim system
D-DRAN-DLW~	98	CONTINUOUS	Drains: dilute waste system
D-DRAN-EGW~	99	CONTINUOUS	Drains: ethylene glycol waste system
D-DRAN-HFW~	100	CONTINUOUS	Drains: hydrofluoric waste system
D-DRAN-IW~~	101	CONTINUOUS	Drains: industrial waste system
D-DRAN-MW~~	102	CONTINUOUS	Drains: metals waste system
D-DRAN-NPWR	103	CONTINUOUS	Drains: non-potable water reuse system
D-DRAN-OIW~	104	CONTINUOUS	Drains: organic industrial waste system
D-DRAN-OLW~	105	CONTINUOUS	Drains: organic liquid waste system
D-DRAN-OSW~	106	CONTINUOUS	Drains: organic solvent waste system
D-DRAN-PHRC	107	CONTINUOUS	Drains: phosphoric acid reclaim system
D-DRAN-PSW~	108	CONTINUOUS	Drains: photo solvent waste system
D-DRAN-SDD~	109	CONTINUOUS	Drains: scrubber duct drains system
D-DRAN-SLW~	111	CONTINUOUS	Drains: slurry waste system
D-DRAN-SULF	112	CONTINUOUS	Drains: sulfuric acid system
D-DRAN-SULR	113	CONTINUOUS	Drains: sulfuric acid reclaim system
D-DRAN-SW~~	114	CONTINUOUS	Drains: solvent waste system



## PROCESS LAYERS (4 of 6)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
D-DRAN-SWF~	115	CONTINUOUS	Drains: solvent waste flammable system
D-DRAN-SWNF	117	CONTINUOUS	Drains: solvent waste non-flammable system
D-EXHS-AMEX	80	CONTINUOUS	Exhaust: ammonia exhaust system
D-EXHS-AREX	81	CONTINUOUS	Exhaust: arsenic exhaust system
D-EXHS-HTEX	82	CONTINUOUS	Exhaust: heat exhaust system
D-EXHS-SCEX	83	CONTINUOUS	Exhaust: scrubber exhaust system
D-EXHS-SVEX	84	CONTINUOUS	Exhaust: solvent exhaust system
D-GAS~~AR~~	23	CONTINUOUS	Gas: argon system
D-GAS~~ARB~	25	CONTINUOUS	Gas: argon bulk system
D-GAS~~BUT~	26	CONTINUOUS	Gas: butane system
D-GAS~~CLG~	28	CONTINUOUS	Gas: chlorine gas system
D-GAS~~H2~~	33	CONTINUOUS	Gas: hydrogen system
D-GAS~~HE~~	35	CONTINUOUS	Gas: helium system
D-GAS~~HPN2	36	CONTINUOUS	Gas: high purity nitrogen system
D-GAS~~HPO2	37	CONTINUOUS	Gas: high purity oxygen system
D-GAS~~LCHE	38	CONTINUOUS	Gas: leak check helium system
D-GAS~~N2~~	39	CONTINUOUS	Gas: nitrogen system
D-GAS~~N2O~	40	CONTINUOUS	Gas: nitrous oxide system
D-GAS~~NG~~	41	CONTINUOUS	Gas: natural gas system
D-GAS~~O2~~	42	CONTINUOUS	Gas: oxygen system
D-GAS~~PRO~	43	CONTINUOUS	Gas: propane system
D-GAS~~SG~~	46	CONTINUOUS	Gas: specialty gas system
D-GAS~~UN2~	47	CONTINUOUS	Gas: utility nitrogen system
D-GAS~~VN2~	48	CONTINUOUS	Gas: venturi nitrogen system



## PROCESS LAYERS (5 of 6)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
D-GAS~-WAR~	49	CONTINUOUS	Gas: weld argon system
D-LIQD-LPG~	75	CONTINUOUS	Liquid: liquid petroleum gas system
D-OIL~-LO~~	79	CONTINUOUS	Oil: lube oil system
D-PIPE	121	CONTINUOUS	Piping
D-PIPE-CNTR	YELLOW	GEN-CENTRE (COFC)	Piping: center
D-PIPE-EQPM	123	CONTINUOUS	Piping: equipment
D-PIPE-HDLN	124	HIDDEN2	Piping: hidden line
D-PIPE-MISC	125	CONTINUOUS	Piping: miscellaneous
D-PIPE-PATT	8	CONTINUOUS	Piping: texture and hatch patterns
D-PIPE-UGND	126	JIS_02_4.0	Piping: underground
D-REFR	WHITE	CONTINUOUS	Reference: external files (images, pdfs, xrefs, etc)
D-SLUR-SLR~	240	CONTINUOUS	Slurry: slurry return system
D-SLUR-SLS~	241	CONTINUOUS	Slurry: slurry supply system
D-VACU-CLV~	62	CONTINUOUS	Vacuum: chlorine vacuum system
D-VACU-CV~~	63	CONTINUOUS	Vacuum: chemical vacuum system
D-VACU-EV~~	64	CONTINUOUS	Vacuum: equipment vacuum system
D-VACU-HV~~	65	CONTINUOUS	Vacuum: house vacuum system
D-VACU-HVA~	66	CONTINUOUS	Vacuum: arsenic house vacuum system
D-VACU-PV~~	67	CONTINUOUS	Vacuum: vacuum system
D-WATR-BFW~	151	CONTINUOUS	Water: boiler feed water system
D-WATR-DIR~	155	CONTINUOUS	Water: deionized water return system
D-WATR-DIS~	156	CONTINUOUS	Water: deionized water supply system
D-WATR-DIWP	157	CONTINUOUS	Water: DI polishing loop system
D-WATR-FW~~	161	CONTINUOUS	Water: fire water system



## PROCESS LAYERS (6 of 6)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
D-WATR-HDIR	20	CONTINUOUS	Water: hot DI return system
D-WATR-HDIS	20	CONTINUOUS	Water: hot DI supply system
D-WATR-HDRC	20	CONTINUOUS	Water: hot DI reclaim system
D-WATR-HPDR	163	CONTINUOUS	Water: high pH DI return system
D-WATR-HPDS	173	CONTINUOUS	Water: high pH DI supply system
D-WATR-ICW~	175	CONTINUOUS	Water: industrial city water system
D-WATR-NPW~	181	CONTINUOUS	Water: non-potable water system
D-WATR-PCWR	182	CONTINUOUS	Water: cooling water return system
D-WATR-PCWS	183	CONTINUOUS	Water: cooling water supply system
D-WATR-PW~~	160	CONTINUOUS	Water: potable water system
D-WATR-RO~~	185	CONTINUOUS	Water: reverse osmosis water system
D-WATR-ROR~	186	CONTINUOUS	Water: reverse osmosis reject water system
D-WATR-TDIR	187	CONTINUOUS	Water: tempered DI return system
D-WATR-TDIS	190	CONTINUOUS	Water: tempered DI supply system
D-WATR-TW~~	192	CONTINUOUS	Water: tempered water system
D-WATR-UPRW	193	CONTINUOUS	Water: ultra pure recycle water system
D-WATR-UPW~	195	CONTINUOUS	Water: ultra pure water system