



M.A.N. DXF LAYERING

DXF LAYER NAME	COMMONLY CONTAINS	USED IN DTM?
X-STRUCT-BUILDING	Building roof outlines	N
X-STRUCT-FOUNDATION	New or razed building foundations	N
X-WALL-RETAINING	Walls (retaining)	N
X-STRUCT-BRIDGE	Outer edge of bridge structure	N
X-STRUCT-ROOF	Roof lines where applicable	N
X-RR-RAIL	Railroad rails and cross ticks	N
X-RR-SWITCH	Railroad switch hardware	N
X-MISC-TANK	Storage tanks	N
X-MISC-CURB	Miscellaneous curb	N
X-ROAD-PAVED	Edge of pavement, or fog line where the berm appears to be a different material	Y
X-ROAD-UNPAVED	Edge of a dirt road or paved road with very poorly defined edges	Y
X-ROAD-CURB	Curb face	Y
X-ROAD-BERM	Paved or well-defined dirt berm	Y
X-ROAD-ALLEY	Alleys	Y

X-DRIVE-ASPHALT	Paved driveways	Y
X-DRIVE-UNPAVED	Unpaved driveways	Y
X-DRIVE-PARKING-MARK	Pavement markings in parking lots	N
X-DRIVE-TRAIL	Poorly defined trail; usually wandering through a field or woods	N
X-MISC-CONCRETE	Concrete structures not related sidewalks	N
X-ROAD-MARKING	Pavement markings used to control traffic	N
X-MISC-LINES	Linear items which can't be identified	N
X-WALKS-CONC	Concrete sidewalks	N
X-MISC-SYM	Symbol items which can't be identified	N
X-WATER-RIVER	Natural water courses	Y
X-WATER-LAKE	Ponds or lakes	Y
X-WATER-DITCH	Man-made water courses	Y
X-WATER-SWAMP	Low wet areas; seasonal or otherwise	Y
X-WATER-PIPE	Drain pipes	N
X-PROP-FENCE	Fence lines	N
X-ROAD-GUARDRAIL	Guardrails	N
X-PROP-FIELD	Line of occupation with no fence	N
X-PROP-ATHLETIC	Athletic and recreational areas	N
X-POLE-SIGN-ROAD	Signs related to transportation routes	N
X-POLE-UTILITY	Power or phone poles	N

X-POLE-LIGHT-STREET	Light only or power pole with a light on it along transportation routes	N
X-POLE-MISC	Pole of unknown description	N
X-POLE-POST	Small post of unknown description	N
X-POLE-LIGHT-MISC	Light only or power pole with a light on it not along transportation routes	N
X-UTIL-COVER	Manhole or underground feature cover	N
X-UTIL-HYDRANT	Fire hydrant	N
X-UTIL-DRAIN	Catch basin, drain grate or drop inlet	N
X-UTIL-PHONE	Telephone boxes	N
X-UTIL-ELECTRIC	Electric service features	N
X-UTIL-LP	Propane tanks	N
X-STRUCT-POOL	Swimming pools	N
X-POLE-MAILBOX	Mailboxes	N
X-MISC-HEADSTONE	Headstones, tombs, or grave markers	N
X-UTIL-ANT-DISH	Antenna or satellite dish	N
X-GOLF-FAIRWAY	Golf course fairway	N
X-GOLF-GREEN_TEE	Golf course greens or tees	Y
X-GOLF-SAND	Golf course sand traps	Y
X-GOLF-CARTPATH	Golf course cartpaths	Y
X-GOLF-SPRINKLER	Golf course sprinkler heads or lines where they can be identified	N
X-AIRPORT-MISC-LINE	Airport linear items which can't be identified	N

X-AIRPORT-MARK-RUNWAY	Airport runway pavement markings	N
X-AIRPORT-RUNWAY	Airport runway	Y
X-AIRPORT-TAXIWAY	Airport taxiway	Y
X-AIRPORT-APRON	Airport apron	Y
X-TREE-TREELINE	Line around a group of trees	N
X-TREE-HEDGE	Hedges	N
X-TREE-TREE	Single trees	N
X-MISC-BRUSH	Brush lines	N
X-MISC-LANDSCAPE	Non-foliage features related to landscaping	N
X-MISC-PILES	Piled material; usually stockpiles	N
X-MISC-PILE-SHADE	Shading of piles	N
X-MISC-CONVEYOR	Features and hardware used for material handling	N
X-TOPO-BREAKLINES	Topographic-only features used for creation of a digital elevation model. Not included in graphic files.	Y
X-TOPO-INDEX	Fifth contours used as index lines and labeled	N
X-TOPO-INDEX-DASH	Obscured index contours	N
X-TOPO-INTERMED	Contour lines showing every contour interval except for the index contours	N
X-TOPO-INTERMED-DASH	Obscured intermediate contours	N
X-TOPO-SPOTS	Labeled spot elevations – symbols	Y
X-TOPO-SPOTGRID	Spot elevation grid used for creation of a digital elevation model. Not included in graphic files.	Y
X-TOPO-SPOT-TEXT	Labeled spot elevations – text	N

X-MISC-TEXT	Text labels	N
X-SHEET-GRID	Grid lines showing survey grid system; usually every 5 inches	N
X-SURV-BOUNDRY	Property boundary information supplied by the surveyor or client	N
X-SURV-CONTROL	Control network tying the mapping to an existing coordinate system	N
X-SHEET-SHEET	Title block information	N
SURV-PTS	Symbol showing location of data supplied by surveyor	N
SURV-LINE	Lines connecting surveyor-supplied points	N
SURV-PT-NO	Point name or number for surveyor-supplied points	N
SURV-DESC	Descriptions supplied with points	N
SURV-ELEV	Elevation associated with surveyor-supplied points	N
X-LIMITS-MAP	Line showing limits of map compilation	N
X-LIMITS-OBSCURED	Outline of areas where ground is obscured and contours may be suspect	N
X-LIMITS-FORM-LINES	Outline of areas where visibility is severely limited and contours are only shown for convenience to roughly portray the general shape of the ground	N
X-LIMITS-UPDATE	Outline of areas that were changed in an update to previous mapping	N
X-ROAD-CL	Roadway centerlines	Y
X-ROAD-WIRING	Traffic detector wiring	N
X-CURB-BACK	Lines representing the back of curbs at the top of the curb elevation	Y
X-DRIVE-CONC	Concrete driveways	Y
X-DRIVE-TRACK	Running or racing tracks	Y
X-DRIVE-PARKING-PAVED	Paved parking areas	Y

X-DRIVE-BIKEPATH	Bike paths	Y
X-WALK-DECK	Porch or decking	N
X-ROAD-MARKING-DASHED_CL	Dashed centerline road markings	N
X-MISC-BENCH	Benches	N
X-WALKS_ASPHALT	Asphalt walkways	N
X-WALKS-WHEELCHAIR	Detectable warning strips	N
X-PIPE_EXPOSED	Pipes	N
X-ROAD-GUARDRAIL-CABLE	Cable guardrail	N
X-POLE-LIGHT-YARD	Light located in yards	N
X-UTIL-TRANSMISSION	Large structured dedicated to transmission of utilities	N
X-POLE-SIGN-MISC	Miscellaneous signage not related to transportation	N
X-POLE-GUY	Poles or cable anchors for supporting utility poles	N
X-POLE-SIGN-OVERHEAD	Poles or structures for displaying signs over roadways	N
X-POLE-FLAG	Flag pole	N
X-POLE-TRAFFIC	Poles supporting traffic signals	N
X-ROAD-SIGNAL	Suspended traffic signals	N
X-TANK-CAP	Cap, lid or access to underground storage	N
X-UTIL-WATER	Water service features	N
X-UTIL-ELECTRIC_PULL_BOX	Electric pull box	N
X-AIRPORT-SYM-SIGN	Airport signs	N

X-AIRPORT-RUNWAY-CL	Airport runway centerline	Y
X-AIRPORT-LIGHTS-RUNWAY-EDGE	Lights along edge of runway	N
X-AIRPORT-APPROACH	Airport approach	N
X-AIRPORT-MISC-SYMB	Airport symbol items which can't be identified	N
X-AIRPORT-LIGHTS-RUNWAY-END	Lights at end of runway	N
X-AIRPORT-LIGHTS-TAXI-EDGE	Lights at edge of taxiway	N
X-AIRPORT-MARK-TAXI-GUIDE	Taxiway edge pavement markings	N
X-AIRPORT-MARK-RUNWAY-CL	Runway centerline pavement markings	N
X-AIRPORT-MARK-APRON	Apron pavement markings	N
X-AIRPORT-MARK-GUIDANCE	Guidance pavement markings at airports	N
X-AIRPORT-MARK-HELIPAD	Helipad pavement markings	N
X-AIRPORT-HELIPAD	Helipad	Y
X-TOPO-INDEX-TXT	Labels of index contours	N
X-TOPO-INDEX-DASH-TXT	Labels of dashed index contours	N
X-TOPO-INTERMED-TXT	Labels of intermediate contours	N
X-TOPO-INTERMED-DASH-TXT	Labels of intermediate dashed contours	N
X-ROAD-TEXT	Roadway names	N
X-WATER-TEXT	Waterway names	N
X-SHEET-MISC	Orthophoto images outlines	N
X-BRIDGE-STRUCTURE	Interior bridge structures such as curbs, walls, etc.	N

X-DRIVE-CURB	Curb face of driveways	Y
X-DRIVE-PARKING-UNPAVED	Unpaved parking areas	Y
X-WALK-STEPS	Steps	N
X-ROAD-MARKING-DOUBLE_CL	Double solid centerline pavement markings	N
X-WALKS_BRICK	Brick walks	N
X-WATER-CULVERT-END	End of culvert	N
X-TANK-CAP-FUEL	Fuel tank caps	N
X-ROAD-WALL-BARRIER	Barrier wall on road	N
X-BRIDGE-WALL	Bridge wall	N
X-DRIVE-PARKING-CURB	Curb face of parking area	Y
X-POLE-PARKING_METER	Parking meters	N
X-ROAD-MARKING-CHANNELIZED_LANE	Channelized lane line pavement markings	N
X-WALK-CURB	Curbing along walks	Y
X-WALL-MISC	Miscellaneous wall	N
X-MISC-CURB-BLOCK	Curb block	N
X-DRIVE-PARKING-FLOW	Parking flow markings	N
X-ROAD-MARKING-EDGE_LINE	Edge pavement markings	N
X-WALL-HEADWALL	Headwall	N
X-ROAD-MARKING-STOP_BAR	Stop bars	N
X-ROAD-MARKING-CROSSWALK	Cross walk pavement markings	N

X-ROAD-MARKING-PASS_PROHIBIT	Passing prohibited pavement markings	N
X-ROAD-MARKING-DASHED_LANE	Dashed lane line pavement markings	N
X-ROAD-MARKING-TRANSVERSE_LINE	Transverse pavement markings	N