

INSTRUCTIONS FOR TRANSLATING MSD SUPPLIED GIS FILES IN DXF FORMAT INTO AutoCAD DRAWING FILE (dwg) FORMAT

All LOJIC data have the following projection characteristics: Projection: **Kentucky State Plane**, Zone: **3976(North)**, Datum: **NAD83**, Units: **Feet**, Spheroid: **GRS1980**

You are being supplied with a Diskette/CDROM from MSD. Typically, the Diskette/CDROM contains zip file of the product directory which contains the data as a file named combined.dxf and a zip file called dxftrans.zip which contains a shape definition file (msd2003.shx), renlayer.lsp and this documentation (dxfcombine_user). Use WinZIP, PKZIP or Stuffit Expander to uncompress the data.

The combined.dxf file contains all exported LOJIC layers combined together into a single file which can be used directly with AutoCAD Release 14 and later. The data in the combined.dxf file is formatted for 1:100 scale mapping. The AutoLISP routine renlayer.lsp renames the ARC/INFO compatible layer names into more descriptive AutoCAD layer names and vice versa.

Before starting, be sure to read the helpful hints below.

OPERATING INSTRUCTIONS

- 1) Use Windows Explorer to create a subdirectory called **msddata** on your hard drive or network drive. (DOS Instructions: For the sake of simplicity we will use the designation **d:** for the hard drive, **e:** for the CDROM drive, **msddata** for the working subdirectory name, and **d:\msddata** as the path description).

DOS Instructions:

D:

cd

mkdir msddata

Use Windows Explorer to move to the new subdirectory.

DOS Instructions: **cd msddata**

- 2) Use Windows Explorer to copy all of the files from the Diskette/CDROM into this directory.

DOS Instructions: **copy e:*. * d:\msddata**

Be sure to use the path name of the directory you created in step 1) above for the path **d:\msddata**.

- 3) The msd2003.shx file contains the shape definitions used by the complex linetypes and **must** be in the ACAD font directory or in the environment support path. **If you are using Release 14 or newer**, copy the complex linestyle shape definition file (msd2003.shx) to the AutoCAD fonts directory, or better yet, a directory on your AutoCAD support environment search path (SET ACAD=...). This file is necessary so that complex linetypes can be used instead of multiple entities as in prior versions. This allows entities, such as fence lines, to be symbolized as a single entity as opposed to multiple lines with an "X" block spaced periodically.
- 4) To load the combined.dxf file first, enter the path where the dxf data is located, using AutoCAD's file:open window. The user should navigate to the subdirectory specified above and select the combined.dxf file. AutoCAD will import this file and automatically draw all of the lines, points, etc. to MSD/LOJIC default standards of color, weight and symbology.

As mentioned earlier, the "renlayer.lsp" routine will rename the default layer names from ARC/INFO into more recognizable names. To use the routine type in (**load "d:\msddata\renlayer"**) at the AutoCAD Command: prompt. To execute the routine, type in **renlayer**. To change the layer names back to the default values, simply execute the routine again. **NOTE: You must make sure to replace your existing renlayer.lsp file with the new one supplied with the new data, or the data tags will not work properly when used in autocad.**

HELPFUL HINTS

- This file is designed for AutoCAD Release 14 and later and will not work correctly for any versions prior to Release 14.
- AutoCAD needs to be set up as a new/blank drawing and no 3rd party software packages should be loaded.
- If the total area is broken into sections, it is advised that you create a drawing for each area. Later you may combine them by using the insert command in AutoCAD with the "*" option and inserting them at coordinate 0,0 with no rotation.
- If you have any questions or problems with the use of this .dxf file, contact Ken Bailey at (502) 540-6150 (baileyk@lojic.org) or Jane Poole (502) 540-6435 (poole@lojic.org) with LOJIC.

APPENDIX

DXF Layer Symbology for LOJIC Layers

Layer Name	Description	Rename Layer Name	Block Name	Color	Color Name	Pen Weight	Ltype
Airport - AP							
AP01	Paved Runways	LO-AP-PAVE RUNW		253	gray	0.25	Continuous
AP02	Paved Taxiways	LO-AP-UNPAVE TAXW		253	gray	0.25	Continuous
AP03	Unpaved Landing Strip	LO-AP-UNPAVE STRP		253	gray	0.25	Hidden2
AP99	Tile Boundary	LO-AP-TILE-BND		253	gray	0.25	Continuous
Building - BG							
BG01	Primary Building	LO-BG-PRIMARY		253	gray	0.25	Continuous
BG02	Secondary Building (Garage/Outbuilding)	LO-BG-SECOND		253	gray	0.25	Hidden
BG03	Ruin	LO-BG-RUIN		253	gray	0.25	Hidden2
BG04	Building Under Construction/Foundation	LO-BG-UNDER CONST		253	gray	0.25	Hidden2
BG05	Silo	LO-BG-SILO		253	gray	0.25	Continuous
BG06	Tank	LO-BG-TANK		253	gray	0.25	Continuous
BG07	Water Tower	LO-BG-WTR TWR		253	gray	0.25	Continuous
BG08	Courtyard	LO-BG-TILE-BND		253	gray	0.25	Continuous
BG99	Tile Boundary	LO-BG-TILE-BND		253	gray	0.25	Continuous
Contour - CN							
CN01	Intermediate	LO-CN-INT		13	brown	0.25	Contour2
CN02	Intermediate Depression	LO-CN-INT-DPR		13	brown	0.25	DEPCONT
CN03	Obscured Intermediate	LO-CN-INT-OBSC		13	brown	0.25	Contour2
CN04	Obscured Intermediate Depression	LO-CN-INT-OBSC-DPR		13	brown	0.25	DEPCONT
CN05	Intermediate Segment Through Structure	LO-CN-INT-BLDG		13	brown	0.25	Contour2
CN06	Intermediate Depression Through Structure	LO-CN-INT-BLDG-DPR		13	brown	0.25	DEPCONT
CN07	Index	LO-CN-IDX		15	dark brown	0.50	Contour2
CN08	Index Through Structure	LO-CN-IDX-BLDG		15	dark brown	0.50	Contour2
CN09	Index Depression	LO-CN-IDX-DPR		15	dark brown	0.50	Contour2
CN10	Index Depression Through Structure	LO-CN-IDX-BLDG-DPR		15	dark brown	0.50	Contour2
CN11	Obscured Index	LO-CN-IDX-OBSC		15	dark brown	0.50	Contour2
CN12	Obscured Index Depression	LO-CN-IDX-OBSC-DPR		15	dark brown	0.50	DEPCONT
CN13	Index Label Segment	LO-CN-LBL-IDX		15	dark brown	0.50	Contour2
CN14	Index Depression Label Segment	LO-CN-LBL-IDX-DPR		15	dark brown	0.50	DEPCONT
CN15	Intermediate Label Segment	LO-CN-LBL-INT		13	brown	0.25	Contour2
CN16	Intermediate Obscure Label Segment	LO-CN-LBL-INT-OBSC		13	brown	0.25	Contour2
CN17	Intermediate Depression Label Segment	LO-CN-LBL-INT-DPR		13	brown	0.25	DEPCONT
CN18	Intermediate Depression Obscure Segment	LO-CN-LBL-INT-OBSC-DPR		13	brown	0.25	DEPCONT
CN99	Tile Boundary	LO-CN-TILE-BND		13	brown	0.25	Contour2
CN_ANNO_ELEV	Contour Elevation Annotation	LO-CN-ANNO-TX					
Drainage Line - DL							
DL01	Floodwall	LO-DL-FLOODWALL		130	cyan	0.35	WALL
DL01W	Floodwall	LO-DL-FLOODWALL-MLINE		130	cyan	0.35	FLOODDASH
DL02	Headwall	LO-DL-HEADWALL		130	cyan	0.35	Continuous
DL03	Concrete Drain, Paved/Gravel/Rock Ditch	LO-DL-PAVED-DITCH		130	cyan	0.35	Continuous
DL04	Culvert	LO-DL-CULVERT		130	cyan	0.35	Hidden2
DL05	Catch Basin Lines	LO-DL-CATCHBASIN-LINE		130	cyan	0.35	Continuous
DL99	Tile Boundary	LO-DL-TILE-BND		130	cyan	0.35	Continuous
Hydrographic Feature - HL							
HL01	Lake, Pond, Reservoir	LO-HL-LAKE-POND		150	blue	0.35	STREAM
HL02	Ohio River	LO-HL-OHIO-RIVER		150	blue	0.35	STREAM
HL03	Holding Pond, Sewage Pond	LO-HL-SEWAGE-POND		150	blue	0.35	STREAM
HL04	Double-Lined River, Stream	LO-HL-RIV-STRM-LINE		150	blue	0.35	STREAM
HL05	Wet Area (Swamp, Marsh, etc.)	LO-HL-SWAMP		150	blue	0.35	STREAM
HL06	Hydrographic Feature Under Structure	LO-HL-FEAT-UND-STRUC		150	blue	0.35	STREAM
HL07	Single-Lined River, Stream, Creek	LO-HL-SING-LINE-HYDRO		150	blue	0.35	STREAM
HL08	Island	LO-HL-ISLAND		150	blue	0.35	STREAM
HL99	Tile Boundary	LO-HL-TILE-BND		150	blue	0.35	Continuous
HL_ANNO	Hydrological feature annotation	LO-HL-HYDROGRAPHY-TX					
Miscellaneous Area - MA							
MA01	Cemetery	LO-MA-CEMETARY		253	gray	0.25	Hidden2
MA02	Junkyard/Open Storage	LO-MA-JUNKYARD		253	gray	0.25	Hidden2
MA03	Major Stockpiles	LO-MA-STOCKPILE		253	gray	0.25	Hidden2
MA04	Quarry	LO-MA-QUARRY		253	gray	0.25	Hidden2
MA05	Construction Area	LO-MA-CONST-AREA		253	gray	0.25	Hidden2
MA06	Substation	LO-MA-SUBSTATION		253	gray	0.25	Hidden2
MA07	Treatment Plant	LO-MA-TREATMENT-PLNT		253	gray	0.25	Hidden2
MA99	Tile Boundary	LO-MA-TILE-BND		253	gray	0.25	Continuous
Miscellaneous Structure - MS							
MS01	Deck, Porch, Patio, Canopy	LO-MS-DECK-PORCH		253	gray	0.25	Continuous
MS02	Unattached Paved Slab	LO-MS-UNATT-PAV-SLAB		253	gray	0.25	Continuous
MS03	Helipad	LO-MS-HELIPAD		253	gray	0.25	Continuous
MS04	Loading Dock	LO-MS-LOAD-DOCK		253	gray	0.25	Continuous
MS05	Fence (Delineating Property Boundary)	LO-MS-FENCE		253	gray	0.25	FENCE

MS06	Wall, Retaining Wall	LO-MS-WALL	253	gray	0.25	WALL (Parallel Lines)	
MS06W	Mline Wall	LO-MS-WALL-MLINE	253	gray		MLINE(inside dash)	
MS07	Dock, Pier, Port	LO-MS-DOCK-PIER	253	gray	0.25	Continuous	
MS08	Boat Ramp	LO-MS-BOAT-RAMP	253	gray	0.25	Continuous	
MS09	Dam	LO-MS-DAM	253	gray	0.25	Continuous	
MS10	Pipe System, Conveyor	LO-MS-PIPE-CONVEYOR	253	gray	0.25	Continuous	
MS11	Billboard, Overhead sign	LO-MS-BILLBRD-SIGN	253	gray	0.25	Continuous	
MS12	Guardrail, Connected Posts	LO-MS-GUARDRAIL	253	gray	0.25	Guardrail	
MS13	Smokestack	LO-MS-SMOKESTACK	253	gray	0.25	Continuous	
MS14	Pedway	LO-MS-PEDWAY	253	gray	0.25	Continuous	
MS99	Tile Boundary	LO-MS-TILE-BND	253	gray	0.25	Continuous	
Miscellaneous Transportation - MT							
MT01	Paved Parking Area	LO-MT-PAVED-PKNG	253	gray	0.25	Continuous	
MT02	Unpaved Parking Area	LO-MT-UNPAVED-PKNG	253	gray	0.25	Hidden2	
MT03	Paved Driveway	LO-MT-PAVED-DWY	253	gray	0.25	Continuous	
MT04	Unpaved Driveway	LO-MT-UNPVD-DWY	253	gray	0.25	Hidden2	
MT05	Pedestrian Area (except backyard walks)	LO-MT-PED-AREA	253	gray	0.25	Continuous	
MT99	Tile Boundary	LO-MT-TILE-BND	253	gray	0.25	Continuous	
Railroad - RR							
RR01	Active Railroad	LO-RR	253	gray	0.25	RR	
RR02	Active Railroad Yard/Spur	LO-RR-SPUR	253	gray	0.25	RR2	
RR03	Abandoned Railroad	LO-RR-ABANDONED	253	gray	0.25	RR-DASH	
RR04	Abandoned Railroad Yard/Spur	LO-RR-ABANDONED-SPUR	253	gray	0.25	RR-DASH	
RR05	Railroad Bridge	LO-RR-BRIDGE	253	gray	0.25	Continuous	
RR99	Tile Boundary	LO-RR-TILE-BND	253	gray	0.25	Continuous	
RR_ANNO	General railroad annotation	LO-RR-TX					
RR_YARD	Railyard annotation	LO-RR-YARDS-TX					
RR_300	1:300 Railroad Annotation	LO-RR-300-SCALE-TX					
Road - RD							
RD01	Paved Road	LO-RD-PAVED-ROAD	253	gray	0.25	Continuous	
RD02	Unpaved Road	LO-RD-UNPAVED-ROAD	253	gray	0.25	Hidden2	
RD03	Paved Alley	LO-RD-ALLEY-PVD	253	gray	0.25	Continuous	
RD04	Unpaved Alley	LO-RD-ALLEY-UNPVD	253	gray	0.25	Hidden2	
RD05	Improved Shoulder (Paved & Gravel)	LO-RD-SHOULDER-IMP	253	gray	0.25	Continuous	
RD06	Vehicle Bridge	LO-RD-VEHICLE-BRIDGE	253	gray	0.25	Continuous	
RD07	Foot Bridge	LO-RD-FOOT-BRIDGE	253	gray	0.25	Continuous	
RD08	Trail (Oldham only)	LO-RD-TRAIL	253	gray	0.25	Hidden2	
RD09	Median	LO-RD-MEDIAN	253	gray	0.25	Continuous	
RD99	Tile Boundary	LO-RD-TILE-BND	253	gray	0.25	Continuous	
Recreation Line - RL (Includes Otter Creek)							
RL01	Tennis/Recreation Court	LO-RL-TENNIS	253	gray	0.25	Continuous	
RL02	Sports Track	LO-RL-SPORTS-TRACK	253	gray	0.25	Continuous	
RL03	Baseball/Softball Field	LO-RL-BALLFIELD	253	gray	0.25	Continuous	
RL04	Football/Soccer/Recreation Field	LO-RL-FOOTBALL	253	gray	0.25	Continuous	
RL05	Playground	LO-RL-PLAYGROUND	253	gray	0.25	Continuous	
RL06	Pavilion, Bleacher, Batting Cage	LO-RL-PAVILN-BLCHER	253	gray	0.25	Continuous	
RL07	In-Ground Swimming Pool	LO-RL-IN-GND-POOL	253	gray	0.25	Continuous	
RL08	Above-Ground Swimming Pool	LO-RL-UP-GND-POOL	253	gray	0.25	Continuous	
RL09	Golf Course Green, Sand Trap, Tee Area	LO-RL-GOLF-COURSE	253	gray	0.25	Continuous	
RL99	Tile Boundary	LO-RL-TILE-BND	253	gray	0.25	Continuous	
Spot Height - SH							
SH01	Spot Height	LO-SH-SPOT-LAND	spot	13	brown	0.25	Continuous
SH02	Water Level	LO-SH-SPOT-WATER	wspot	150	blue	0.35	Continuous
SH_ANNO_ELEV	Elevation Annotation	LO-SH-SPOT-ELEV-TX					
Terrain Line - TL (Only in Otter Creek – Per MSD Jefferson County not included)							
TL01	Hard Breakline	LO-TL-HARD-BREAKLINE	210	magenta	0.50	Hidden	
TL02	Soft Breakline	LO-TL-SOFT-BREAKLINE	210	magenta	0.50	HIDDEN2B	
TL99	Tile Boundary	LO-TL-TILE-BND	210	magenta	0.50	Continuous	
Terrain Point - TP (includes Otter Creek)							
TP	Tinpoints	LO-TP-TINPOINT	tin	253	gray	0.25	Continuous
Trail - TR (Otter Creek only)							
TR01	Trail	LO-TR-TRAIL	253	gray	0.25	Hidden	
TR99	Tile Boundary	LO-TR-TILE-BND	253	gray	0.25	Continuous	
Utility Line - UL							
UL01	Electric Transmission Line (Above Ground)	LO-UL-TRANSMISSION-LINES	253	gray	0.25	Hidden	
UL02	Pipeline	LO-UL-PIPELINES	253	gray	0.25	Hidden	
UL99	Tile Boundary	LO-UL-TILE-BND	253	gray	0.25	Continuous	
Utility Point - UP							
UP01	Light Pole	LO-UP-POLE-LIGHT	ltpole	253	gray	0.25	Continuous
UP02	Other Pole (Flag Pole, etc.)	LO-UP-POLE-OTHER	pole	253	gray	0.25	Continuous
UP03	Transmission Pole	LO-UP-POLE-TRNSMSS	tranpole	253	gray	0.25	Continuous
UP04	Utility Pole	LO-UP-POLE-UTILITY	upole	253	gray	0.25	Continuous
UP05	Transmission Tower (tall 4-leg structure)	LO-UP-POLE-TRNSM-TR	tower	253	gray	0.25	Continuous
UP06	Fire Hydrant	LO-UP-FIRE-HYDRANT	fh	253	gray	0.25	Continuous
UP07	Catch Basin	LO-UP-CATCH-BASIN	excb	253	gray	0.25	HIDDEN3

UP08	Manhole	LO-UP-MANHOLE	manhole	253	gray	0.25	Continuous
UP09	Antenna	LO-UP-ANTENNA	antenna	253	gray	0.25	Continuous
Vegetation Line - VL							
VL01	Brush Area	LO-VL-BRUSH-AREA		80	green	0.25	BRUSH
VL02	Tree Area	LO-VL-TREE-AREA		90	green	0.25	TREELINE
VL99	Tile Boundary	LO-VL-TILE-BND		90	green	0.25	Continuous
Vegetation Point - VP							
VP01	Tree	LO-VP-TREE	tree	80	green	0.25	Continuous
\$MSDDATA Layers							
sewer	Sewer	LO-SEWER-LINE		240	red	0.25	Continuous
sewernd	Sewer Node	LO-SEWER-NODE	sewernd	240	red	0.25	Continuous
sewer_anno_nodeid	Node ID annotation	LO-SEWERANNO-NODE-ID-TX					
sewer_anno_dia_type	Pipe diameter annotation	LO-SEWERANNO-DIA-TYPE-TX					
sewer_anno_asbuilt	AsBuilt annotation	LO-SEWERANNO-ASBUILT-TX					
\$LOJICDATA Layers							
siteadd	Site Addresses	LO-SITEADD-ADDRESS-TX		7	white	0.35	Continuous
streetcl	Street Centerline	LO-STREETCL-CENTERLINE		253	gray	0.25	Continuous
streetcl_anno_mapbook	Street name mapbook annotation	LO-STREET-MAPBOOK-TX					
streetcl_anno_mj100	Street name 1:100 annotation	LO-STREET-100SCALE-TX					
streetcl_anno_mj250	Street name 1:250 annotation	LO-STREET-250SCALE-TX					
streetcl_anno_mj400	Street name 1:400 annotation	LO-STREET-400SCALE-TX					
streetcl_anno_streetcl	Street name full annotation	LO-STREETS-TX					
zoning	Zoning	LO-ZONING-LINE		220	magenta	0.50	Hidden
zoning_anno_name	Zoning name annotation	LO-ZONING-NAME-TX					
zoning_anno_type	Zoning type annotation	LO-ZONING-TYPE-TX					
zoning_anno_code	Zoning code annotation	LO-ZONING-CODE-TX					
PROPERTY Layers							
PA	Parcel Lines	LO-PA-PROPERTY		30	orange	0.25	Continuous
PA_anno_platted_dims	Parcel platted dimensions annotation	LO-PA-PLAT-DIM-TX					
PA_anno_deeded_acreage	Parcel deeded acreage annotation	LO-PA-DEED-ACR-TX					
PA_anno_condo_number	Parcel condo number annotation	LO-PA-CONDO-TX					
PA_anno_tax_parcel_num	Tax parcel number annotation	LO-PA-PARCELID-TX					
PA_anno_secondary_parcel_num	Secondary parcel number annotation	LO-PA-2ND-PARCELID-TX					
PA_anno_platted_parcel_num	Platted parcel number annotation	LO-PA-PLAT-PARCELID-TX					
PA_anno_sublot_num	Parcel subplot number annotation	LO-PA-SUBLOT-TX					
PA_anno_block_num	Parcel block number annotation	LO-PA-BLOCK-TX					
PA_anno_historic_block_num	Historic block number annotation	LO-PA-HIST-BLOCK-TX					
PA_anno_subdiv_block_id	Subdivision block ID number annotation	LO-PA-SBDIV-BLK-ID-TX					
PA_anno_row_measurement	Right-of-way measurement annotation	LO-PA-ROW-TX					
PA_anno_street_names	Street name annotation	LO-PA-STR-NAM					
PA_anno_alley_row_notation	Alley right-of-way notation annotation	LO-PA-ALLEY-ROW-TX					
PA_anno_sub_num_sec_num_bk_pg	Subdiv, sect, deed book and pg num anno	LO-PA-SUB-SEC-BKPG-TX					
PA_anno_municipality_name	Municipality name annotation	LO-PA-MUNICIPALITY-NAM					
PA_anno_misc_text	Miscellaneous annotation	LO-PA-MISC-TX					
PA_anno_unknown_graphics_text	Unknown annotation	LO-PA-UNKNOWN-GRAPHICS-TX					
FIRM Layers PER MSD-FIRM drawn as single cyan or blue line. No distinction between layer types							
FIRM	FEMA Floodplain	LO-FIRM-FEMA-FLOOD-BND150			blue	0.35	Continuous
Hydro							
HYDRO260	Cross Section	LO-HYDRO-CROSS-SEC	130		cyan	0.35	Continuous
HYDRO261	Base Flood Elevations	LO-HYDRO-BASE-FLD-ELEV	130		cyan	0.35	BFELEV
HYDRO406	Dam	LO-HYDRO-DAM	131		cyan	0.50	Continuous
HYDRO418	Culvert	LO-HYDRO-CULVERT	130		cyan	0.35	Continuous
HYDRO435	Levee	LO-HYDRO-LEVEE	130		cyan	0.35	WALL, FLOODDASH
HYDRO435W	Used to draw Mline properly for Levee	LO-HYDRO-LEVEE-MLINE					
Flood(need AAT not PAT)							
FLD152	Zone A (100 yr; no detailed study)	LO-FLD-ZONE-A	150		blue	0.35	Continuous
FLD153	Zone AE (100 yr; detailed study)	LO-FLD-ZONE-AE	150		blue	0.35	Continuous
FLD160	Zone X (500 yr)	LO-FLD-ZONE-X-INSIDE	150		blue	0.35	Continuous
FLD161	Zone X (outside 500 yr)	LO-FLD-ZONE-X-OUTSIDE	150		blue	0.35	Continuous
	Floodway		132		dark cyan	0.35	Hidden