

# CADD STANDARDS FOR SURVEY

07/01/2008

## LAYERS

LAYER NAME	USED FOR	COLOR	LINETYPE	WIDTH
<b>BOUNDARIES</b>				
EB-CEMETERY	Cemetery	10	CONTINUOUS	0.005
EB-CITY-LIM	City limits	10	BORDER	0.005
EB-COUNTY-LIM	County limits	10	BORDER	0.005
EB-PROP-COR	Property corner found	10	CONTINUOUS	0.005
EB-PROP-IPS	Iron pin set	10	CONTINUOUS	0.005
EB-PROP-LINE	Property line	10	PHANTOM	0.005
EB-ROW	Right-of-way	10	ROWL	0.005
EB-EASEMENT	Existing Easements	10	PERMEASE	0.005
<b>HYDROLOGICAL</b>				
EH-CHANNEL-TOP-BOT	Channel Bank Top/Bottom	121	DIVIDED	0.005
EH-CHANNEL-CL	☉ Ditch or ☉ creek	121	DIVIDED	0.005
EH-LAKE	Lake	121	DIVIDED	0.005
EH-MARSH	Marsh	121	DIVIDED	0.005
EH-POND	Pond	121	DIVIDED	0.005
EH-RIVER	River	121	DIVIDED	0.005
<b>MISCELLANEOUS</b>				
EX-FENCE	Fence	43	FENCE	0.005
EX-FLAG-POLE	Flagpole	43	CONTINUOUS	0.005
EX-FOUNT	Fountain	43	CONTINUOUS	0.005
EX-GOLF	Golf course features	43	HIDDEN2	0.005
EX-GROUND	Ground	43	CONTINUOUS	0.005
EX-MAIL	Mailbox	43	CONTINUOUS	0.005
EX-MISC	Other	43	CONTINUOUS	0.005
EX-PARK	Park features (except pavt)	43	CONTINUOUS	0.005
EX-PEDESTALS	Pedestal (non-utility)	43	CONTINUOUS	0.005
EX-POOL	Swimming pool	43	HIDDEN2	0.005
EX-RR-MISC	Railroad - other	33	CONTINUOUS	0.005
EX-RR-ROW	Railroad - ROW	33	PHANTOM	0.005
EX-RR-TRACKS	Railroad - tracks	33	CONTINUOUS	0.005
EX-SIGN	Sign	43	CONTINUOUS	0.005
*EX-TEXT	Text (non-plot map)	43	CONTINUOUS	0.005
EX-WELLS	Well	43	CONTINUOUS	0.005
<b>PAVEMENT</b>				
EP-CL	Center line	WHITE	CENTER	0.005
EP-CURB	Curb & gutter	WHITE	HIDDEN2	0.005
EP-DRIVE	Paved driveway	WHITE	HIDDEN2	0.005
EP-DRIVE-UN	Unpaved driveway	WHITE	HIDDEN2	0.005
EP-GUARDRAIL	Guardrail	WHITE	GDR	0.005
EP-MARK-GEN	Marking - gen'l roadway	WHITE	CONTINUOUS	0.005
EP-MARK-PKLOT	Marking - parking lot detail	WHITE	CONTINUOUS	0.005
EP-PATH	Path (paved or not)	WHITE	HIDDEN2	0.005
EP-PKLOT	Paved parking lot	WHITE	HIDDEN2	0.005
EP-PKLOT-UN	Unpaved parking lot	WHITE	HIDDEN2	0.005
EP-ROAD	Paved road	WHITE	HIDDEN2	0.005
EP-ROAD-UN	Unpaved road	WHITE	HIDDEN2	0.005
EP-SIDEWALK	Sidewalk	WHITE	HIDDEN2	0.005
<b>PLAT MAP</b>				
EO-BORDER	Sheet border	40	CONTINUOUS	0.005
EO-DIM	Dimension	40	CONTINUOUS	0.005
EO-HATCH	Hatch pattern	40	CONTINUOUS	0.005
EO-HATCHLINE	Hatch boundary	40	CONTINUOUS	0.005
EO-LEGEND	Legend	40	CONTINUOUS	0.005
EO-TABLES	Table	40	CONTINUOUS	0.005
EO-TEXT	Text (for plat map)	40	CONTINUOUS	0.005
EO-TITLE	Title block text and lines	40	CONTINUOUS	0.005
EO-VMAP	Vicinity map	40	CONTINUOUS	0.005
<b>STRUCTURES</b>				
ES-BLDG	Building	120	HIDDEN2	0.005
ES-BRIDGE	Bridge	120	CONTINUOUS	0.005
ES-MISC	Other structures	120	CONTINUOUS	0.005
ES-TANK	Tank	120	CONTINUOUS	0.005
ES-WALL	Wall	120	CONTINUOUS	0.005
<b>SURVEY</b>				
SU-BENCHMARK	Benchmark	RED	CONTINUOUS	0.010
SU-STAKEOUT	Stakeout (mapping use only)	RED	CONTINUOUS	0.010
SU-SURVEYLINE	Survey line	RED	CONTINUOUS	0.010
SU-TRAV	Control monument	RED	CONTINUOUS	0.010
SU-TRAV-PNTS	Traverse point	RED	CONTINUOUS	0.010
<b>TOPOGRAPHICAL</b>				
TO-CONT-MJR	Major contour	30	HIDDEN2	0.005
TO-CONT-MNR	Minor contour	110	HIDDEN2	0.005
<b>UTILITIES</b>				
EU-CATV	Cable TV	52	CABLE	0.005
EU-ELECTRIC-OVHD	Overhead Electric	52	OE	0.005
EU-ELECTRIC-UNGD	Underground Electric	52	UE	0.005
EU-GAS	Gas	52	GAS	0.005
EU-POLE	Utility/Light Pole	52	CONTINUOUS	0.005
EU-SEWER	Sewer	52	SANITARY	0.005
EU-SIGNAL	Traffic signal (CDOT)	52	UU	0.005
EU-STORM	Storm water	52	HIDDEN2	0.005
EU-TELE-OVHD	Telephone	52	OT	0.005
EU-TELE-UNGD	Telephone	52	UT	0.005
EU-WATER	Water	52	WATER	0.005
EU-FIBER-OPTIC-OVHD	Overhead Fiber Optic Line	52	OF	0.005
EU-FIBER-OPTIC-UNGD	Underground Fiber Optic Line	52	FO	0.005
<b>VEGETATION</b>				
EV-COVER	Ground cover	70	CONTINUOUS	0.005
EV-PLANTER	Planter	70	CONTINUOUS	0.005
EV-SHRUB	Shrub, bush, hedge	70	CONTINUOUS	0.005
EV-TREE	Tree	70	CONTINUOUS	0.005

NOTE: ALL TEXT FOR EXISTING ITEMS SHOULD USE L60 TEXT STYLE WITH 1.2 HEIGHT, UNLESS OTHERWISE NOTED ON THIS SHEET.

## SYMBOLS

NAME	SYMBOL	OBJECT SIZE	LAYER	REMARKS
IRON PIN FOUND	○	$R_1 = .75 / R_2 = 1$	EB-PROP-COR	
IRON PIN SET	●	$R_1 = .50 / R_2 = 1$	EB-PROP-IPS	
R-O-W MONUMENT	□	1.4 x 1.4	EB-ROW	
CONTROL MONUMENT	△	$R = .25 / L = 3.35$	SU-TRAV	
FENCE POST - NO FENCE	⊗	$R = 1$	EX-FENCE	
PK NAIL	●	$R = 1 / H = .7$	SU-TRAV-PNTS	
TRAVERSE POINT	●	$R = 1 / H = .7$	SU-TRAV-PNTS	
BENCH MARK	⊕	$R = 2 / L = 5.2$	SU-BENCHMARK	
GAS VALVE	⌵	$R = .8$	EU-GAS	
WATER VALVE	⌵	$R = .8 / L = 1.6$	EU-WATER	
WATER METER	⌵	1.2 X 1.8	"	
WATER BOX	⌵	2 X 3	"	
FIRE HYDRANT	⌵	$R = .8 / L = 1$	"	
SANIT. SEWER MANHOLE	⊙	$R = 1.25$	EU-SEWER	
SANIT. SEWER CLEAN OUT	⊙ca	$R = 1.25$	EU-SEWER	
STORM DRAINAGE MANHOLE	⊙	$R = 1.25$	EU-STORM	
WATER MANHOLE	⊙	$R = 1.25$	EU-WATER	
POWER MANHOLE	⊙	$R = 1.25$	EU-ELECTRIC-UNGD	
TELEPHONE MANHOLE	⊙	$R = 1.25$	EU-TELE-UNGD	
TELEPHONE PEDESTAL	□	1.8 X 1.3	EU-TELE-UNGD	
WELL	⌵	$R = .8$	EX-WELLS	
MONITORING WELL	⌵	$R = .8$	EX-WELLS	
EXISTING SIGN	⌵	$R = .4 / L = 4.8$	EX-SIGN	
MAIL BOX	⌵	1 X 2	EX-MAIL	
UTILITY POLE	⌵	$R = .8 / L = 1$	EU-POLE	
LIGHT POLE	⌵	$R = .8 / L = .8$	"	
UTILITY POLE WITH LIGHT	⌵	$R = .8 / L = 1$	"	
GUY WIRE	⌵	$L_1 = 4 / L_2 = 1.75$	"	
DROP INLET	⌵	3 X 3	EU-STORM	
CATCH BASIN	⌵	3 X 2	"	
FLOW ARROW	⌵	$L_1 = 2.5 / L_2 = 2$ $R_{mid} = .8 / R_{out} = 1$ ARROWHEAD = .15	"	
FLARED END SECTION	⌵	1.5 X 3 / L = 3	"	
GUARDRAIL	⌵		EP-GUARDRAIL	Length and shape vary
ARROW	⌵	ARROWHEAD = .15	[VARIES]	Length varies
LG AREA MARKER	⌵	GAP = 10 / R = 2.75	"	
SM AREA MARKER	⌵		"	
OWNER INFO	⌵	ROMANC / 3.0 / CENTER $R = 3.40$ SIMPLEX / 1.6 / OBLIQ = 15'	EB-PROP-LINE	Sample shown
NORTH ARROW	⌵			20-Scale Length = 77 ft
<b>TREES</b>				
LAYER: EV-TREE				
6" WILLOW	⌵	[0 - 8"]		
12" OKAME CHERRY	⌵	[9" - 15"]		
18" MAPLE	⌵	[16" - 21"]		
24" PALM	⌵	[22" - 30"]		
36" REDWOOD	⌵	[31" - 42"]		
48" SAGUARO	⌵	[43"+]		
<b>SHRUBS</b>				
LAYER: EV-SHRUB				
R <sub>out</sub> = 3.25 and 6.00				
• Size accordingly				

## LINES

NAME	SYMBOL	LAYER	REMARKS
EXIST. PROPERTY LINE	⌵	EB-PROP-LINE	
EXIST. EASEMENT	⌵	EB-EASEMENT	
MAINTAINED AS RIGHT OF WAY	⌵	EB-ROW	
PUBLIC STORM DRAINAGE EASE.	⌵	EB-PDE	
STORM DRAINAGE EASEMENT	⌵	EB-SDE	
EXIST. DRAIN PIPE	⌵	EU-STORM	Draw to pipe to scale
EXISTING FENCE	⌵	EX-FENCE	sample label
EXISTING WATER	⌵	EU-WATER	
EXISTING SEWER	⌵	EU-SEWER	
EXISTING GAS	⌵	EU-GAS	
EXIST. O'HEAD UTILITY	⌵	EU-ELECTRIC-OVHD	
EXIST. O'HEAD TELEPHONE	⌵	EU-TELE-OVHD	
U'GROUND TELEPHONE	⌵	EU-TELE-UNGD	
U'GROUND POWER	⌵	EU-ELECTRIC-UNGD	
U'GROUND CABLE TV	⌵	EU-CATV	
U'GROUND FIBER OPTIC	⌵	EU-FIBER-OPTIC-UNGD	
EXIST. O'HEAD FIBER OPTIC	⌵	EU-FIBER-OPTIC-OVHD	

NOTE: 1. LINETYPES SHALL BE PER CITYSTD.LIN. SEE LINETYPE EXAMPLE SHEET.  
2. THESE LINETYPES ARE FOR NON-SPECIFIC UTILITIES. USE UTILITIES SPECIFIC LINETYPE FROM CITYSTD.LIN AS APPLICABLE.

## ABBREVIATIONS

ABAND.	ABANDONED	MONO	MONOLITHIC
ASPH	ASPHALT	PAVT	PAVEMENT
B/C	BACK OF CURB	PERM	PERMANENT
C/L FENCE	CHAIN LINK FENCE	PP	POWER POLE
C&G	CURB & GUTTER	PROP.	PROPOSED
CB	CATCH BASIN	PRPTY	PROPERTY
CMP	CORRUGATED METAL PIPE	RCP	REINFORCED CONCRETE PIPE
CONC	CONCRETE	RELOC	RELOCATE / RELOCATED
CONST	CONSTRUCT / CONSTRUCTION	S/R FENCE	SPLIT RAIL FENCE
DI	DROP INLET	STD	STANDARD
DW	DRIVEWAY	SW	SIDEWALK
ELEV	ELEVATION	T/W	TEST WIRE BOX (for gas)
ESMT	EASEMENT	TEMP	TEMPORARY
EXIST.	EXISTING	V. GUTTER	VALLEY GUTTER
F/C	FACE OF CURB	VERT	VERTICAL
GH	FIRE HYDRANT	W. BOX	WATER BOX
GV	GAS VALVE	W. VAULT	WATER VAULT
HORIZ	HORIZONTAL	WM	WATER METER
LP	LIGHT POLE	WV	WATER VALVE
MH	MAN HOLE		

\*NOTE: ADDITIONAL LAYERS FOR EXISTING TEXT MAY BE CREATED FOR INDIVIDUAL SURVEYED FEATURES. ADDITIONAL TEXT LAYERS SHALL FOLLOW THIS NAMING CONVENTION: EU-LAYER NAME-\$T (eg. EU-ELECTRIC-\$T, EX-SIGN-\$T, etc.) THIS SHEET PROVIDES A PARTIAL LIST OF LAYERS SEE THE STANDARD TEMPLATE.

