

**AS-BUILT SURVEY
SUBMITTAL REQUIREMENTS
APPENDIX**

SECTION V.A LINEWORK, BLOCKS, AND TEXT

Delineate, in compliance with appendix III.C, the following features:

LINEWORK AND BLOCKS

- Sanitary Sewer and Storm Drain:
 - Mains
 - Manholes
 - Cleanouts
 - Laterals (Stub-out)
 - Curb Inlets
 - Catch Basins
 - Junction Boxes
 - Detention Basin Boundary
 - Private Structures
 - Abandoned Structures
- Street Lights
- Curbs (Face of Curb)
- Lot Lines (Subdivisions and Partitions)

TEXT

- Street Names
- Pipe Data:
 - Length
 - Diameter
 - Material
 - Invert and Rim Elevations
- Stationing:
 - SS Laterals -Distance in feet (to the nearest foot) from downstream MH measured upstream to lateral. Place label adjacent to, and aligned with, the lateral.

SECTION V.A LINEWORK, BLOCKS AND TEXT (continued)

DRAWING CONVENTIONS

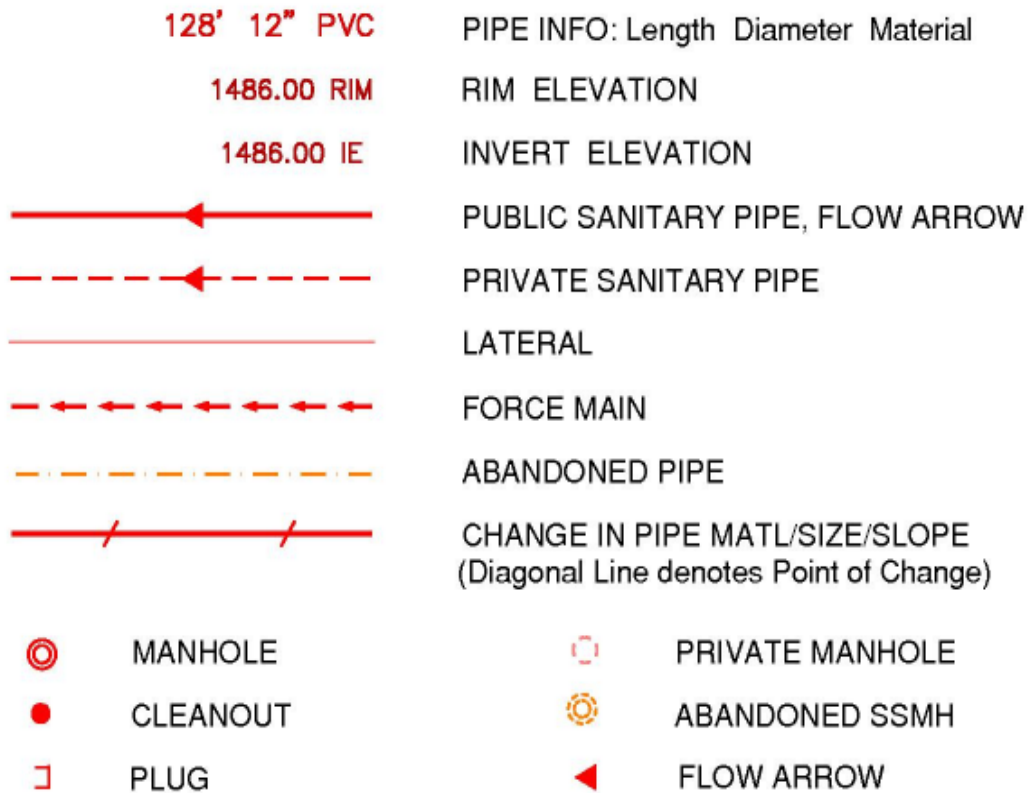
- Lines are **2D** polylines (No 3D polylines).
- Lines are drawn in the **direction of flow**.
- Lines have, at minimum, **1** flow arrow per segment.
- Lines (for laterals) are snapped to object, but **do not break** the object.
- Lines are broken at **nodes** and snapped to insertion point of the block.
- All structures are represented by a **block** (as shown in section III.C)
- Place labels (as **single-line text**) adjacent to the corresponding feature.
- Pipe Data labels are **parallel** to the alignment of the pipe.
- No text shall **overlap**.
- Use abbreviations where applicable (see section III.C)

SECTION III.C

SANITARY SEWER LAYER PROPERTIES

OBJECT	LAYER NAME	LAYER COLOR	LINETYPE	ENTITY	POLYLINE WIDTH
Manhole	SSMH	Red	cont.	Block	0
Cleanout	SSCO	Red	cont.	Block	0
Plug	SSplug	Red	cont.	Block	0
Public Main	SSline	Red	cont.	Polyline	.2
Private Main	SSline_priv	11	dashedx2	Polyline	.1
Private MH	SSMH_priv	11	cont.	Block	0
Lateral	SSlat	11	cont.	Polyline	0
Force Main	SSfm	Red	dashed	Polyline	.2
Abandoned	SSabandon	30	dashdot	Polyline	.1
Flow Arrow	SSflow	10	cont.	Block	0

EXAMPLE: SANITARY SEWER LINEWORK, BLOCKS, & TEXT














SECTION III.C













STORM DRAIN LAYER PROPERTIES

OBJECT	LAYER NAME	LAYER COLOR	LINETYPE	ENTITY	POLYLINE WIDTH
Pipe	SDline	Green	Cont.	Polyline	.2
Manhole	SDMH	Green	Cont.	Block	0
Drop Manhole	SDMH	Green	Cont.	Block	0
Vault Manhole	SDMH	Green	Cont.	Block	0
Vault	SDbox	Green	Cont.	Block	0
Junction Box	SDbox	Green	Cont.	Block	0
Manhole Inlet	SDinlet	Green	Cont.	Block	0
Curb Inlet	SDinlet	Green	Cont.	Block	0
Area Drain	SDinlet	Green	Cont.	Block	0
Cleanout	SDCO	Green	Cont.	Block	0
Plug	SDplug	Green	Cont.	Block	0
Outfall	SDoutfall	Green	Cont.	Block	0
Box Culvert	SDbox_culv	Green	Cont.	Block	0
Abandon Pipe	SDaban	50	Dashdot	Polyline	.1
Abandon MH	SDaban	50	Dashdot	Block	0
Pvt. SDMH	SDMH_priv	70	Dashed	Block	0
Pvt. Pipe	SDline_priv	70	Dashed	Polyline	.1
Pvt. Curb Inlet	SDinlet_priv	70	Dashed	Block	0
Pvt. Area Drain	SDinlet_priv	70	Dashed	Block	0
Flow Arrow	SDflow	92	Cont.	Block	0

SECTION III.C

EXAMPLE: SD LINEWORK, BLOCKS, & TEXT

128'	12" CP	Pipe Info: Length Diameter Material
1486.00 RIM		Rim Elevation
1486.00 IE		Invert Elevation
		Public Storm Drain Pipe, Flow Arrow
		Private Storm Drain Pipe
		Culvert
		Box Culvert
		Private Culvert
		Private Box Culvert
		Abandoned Pipe
		Change in Pipe Matl/Size/Slope (Diagonal Line denotes Point of Change)
		Main Stem
		Tributary
		Ditch

	Manhole		Cleanout		Private Manhole
	Junction Box		Outfall		Private Area Drain
	Curb Inlet		Plug		Abandoned Manhole
	Area Drain		Wingwall		Flow Arrow

SECTION III.C

ABBREVIATIONS

PIPE MATERIAL

ABS	acrylonitrile butadiene styrene
ADS	corrugated polyethylene
CI	cast iron pipe
CMP	corrugated metal pipe
CMPA	corrugated metal pipe arched
CP	concrete pipe
DI	ductile iron pipe
HDPE	high density polyethylene
IRRIG	irrigation pipe
PP	perforated pipe
PVC	polyvinyl chloride
RCP	reinforced concrete pipe
SP	steel pipe
SRP	spiral rib pipe
TP	transite pipe

STRUCTURES

CB	catch basin / area drain
CI	curb inlet
CO	cleanout
MH	manhole
RCBC	reinforced concrete box culvert
SD	storm drain
SS	sanitary sewer

MISC.

F/C	face of curb
IE	invert elevation

SECTION III.C

TEXT SPECIFICATIONS

LABEL	FONT	HEIGHT (1) Model Space	HEIGHT (2) Paper Space
Street Names	Leroy	4	.04
Pipe Data	Leroy	3	.03
Structure Labels	Leroy	2.5	.025
Elevations	Leroy	2.5	.025
Misc.	Leroy	2.5	.025

(1) Height is in model space units (international feet).

(2) Height is in decimal inches with scale set to 1"=1unit