



Object Data Table – BASE (Structure Granular)

SUBJECT:	CAD/C3D Object to Object Data Table & Field Descriptions
SOURCE:	MMCD
REVISION DATE:	February 2, 2022

ASSET_KEY
City of Burnaby Unique Identifier
Do not add, delete or modify

OWNER * SEE ATTRIBUTE SHEET *
Ownership of assets
CITY = City owned asset
PRVT = Privately owned asset

PROJECT_ID
Installing or Existing Project Id
81000 = Sample numeric value

SERVICE_STATUS * SEE ATTRIBUTE SHEET *
Financial transaction
I = In Service (Existing)
REVV = Under Review (Existing)

NI = Net New but Not In Service (Acquisition)
NETN = Net New (Acquisition)
REPL = Replacement (Acquisition)
BETT = Betterment (Acquisition)

ABND = Abandoned (Disposal)
RMVD = Removed (Disposal)

Layer	Entity Type
R-LANE-BASE	Closed Polyline
R-PRKG-BASE	Closed Polyline
R-ROAD-BASE	Closed Polyline
C-LANE-BASE	Closed Polyline
C-PRKG-BASE	Closed Polyline
C-ROAD-BASE	Closed Polyline

ASSET_KEY
OWNER
PROJECT_ID
SERVICE_STATUS
UNIT_TYPE
LENGTH
WIDTH
THICK
MATERIAL
CONDITION
EXP_LIFE
CONST_COST
PAC_NUMBER
INSTALL_DATE
INSTALL_WBS_NUMBER
RETIRED_DATE
RETIRED_WBS_NUMBER
RETIRED_PROJECT_ID

UNIT_TYPE
Subordinate type
REPR = Repair
FULL = Full

LENGTH
Not Required

WIDTH
Not Required

THICK
Average Thickness of materials
100 = Sample value (mm)

MATERIAL
Material type
BG = Base Gravels
PM = Pumice

CONDITION, EXP_LIFE, CONST_COST
Not Required

PAC_NUMBER
Not Required

INSTALL_DATE
Date asset was installed
2013-DEC-03 = Sample Value

INSTALL_WBS_NUMBER
WBS Number retiring asset
EXX.1234.1.12.12.1234 = Capital
DEVELOPMENT = Development

RETIRED_DATE
Date asset was retired
2013-DEC-03 = Sample Value

RETIRED_WBS_NUMBER
WBS Number retiring asset
EXX.1234.1.12.12.1234 = Capital
DEVELOPMENT = Development

RETIRED_PROJECT_ID
Project Id retiring asset
81000 = Sample value

Object Data Table – CBAS (Catch Basin, Inlet Structures)



SUBJECT:	CAD/C3D Object to Object Data Table & Field Descriptions
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BETT = Betterment (Acquisition)

ABND = Abandoned (Disposal)
RMVD = Removed (Disposal)

Layer	Entity Type
R-DRAN-CBAS	Block
C-DRAN-CBAS	Block

ASSET_KEY
OWNER
PROJECT_ID
SERVICE_STATUS
UNIT_TYPE
ROTATION
CONDITION
EXP_LIFE
CONST_COST
PAC_NUMBER
INSTALL_DATE
INSTALL_WBS_NUMBER
RETIRED_DATE
RETIRED_WBS_NUMBER
RETIRED_PROJECT_ID

UNIT_TYPE

Subordinate type

CB	= Curb Catch Basin
CBI	= Catch Basin Type I
CBII	= Catch Basin Type Ii
CBIII	= Catch Basin Type Iii
CBV	= Catch Basin Type V
CBVA	= Catch Basin Type V-A
CBVII	= Catch Basin Type Vii
CI	= Curb Inlet
CO	= Clean Out
DM	= Diversion Manhole
GB	= Grate Catch Basin
GI	= Grate Inlet
LAWNBN	= Lawn Basin
MB	= Manhole Basin
MH	= Manhole
SB	= Sand Box

ROTATION
 Not Required

CONDITION, EXP_LIFE, CONST_COST
 Not Required

PAC_NUMBER
 Not Required

INSTALL_DATE
 Date asset was installed
2013-DEC-03 = Sample Value

INSTALL_WBS_NUMBER
 Not Required

RETIRED_DATE
 Date asset was retired
2013-DEC-03 = Sample Value

RETIRED_WBS_NUMBER
 Not Required

RETIRED_PROJECT_ID
 Project Id retiring asset
81000 = Sample value



Object Data Table – FITT (Water Fitting)

SUBJECT:	CAD/C3D Object to Object Data Table & Field Descriptions
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RMVD = Removed (Disposal)

Layer	Entity Type
R-WATR-STRC	Block
C-WATR-STRC	Block

ASSET_KEY
OWNER
PROJECT_ID
SERVICE_STATUS
UNIT_TYPE
ROTATION
CONDITION
EXP_LIFE
CONST_COST
PAC_NUMBER
INSTALL_DATE
INSTALL_WBS_NUMBER
RETIRED_DATE
RETIRED_WBS_NUMBER
RETIRED_PROJECT_ID

UNIT_TYPE

Subordinate type

11 ½	= Bend 11 ½ Degree
22 ½	= Bend 22 ½ Degree
45	= Bend 45 Degree
90	= Bend 90 Degree
SPECL	= Bend Special
TEE	= Tee Fitting
CROSS	= Cross Fitting
REDUCE	= Reducer
COUPLN	= Coupling (Robar)
FABSTF	= Fabricated Stub and Flange
FABX	= Fabricated Cross
FABT	= Fabricated Tee
FABBND	= Fabricated Bend
CAPEND	= Capped End
TAPPNG	= Tapping
INCOUP	= Insulated Coupling (Robar)
VICTCU	= Victaulic Coupling (Robar)
SLEEVE	= Sleeve
TEESPL	= Split Tee
ADAPRT	= Adaptor
CHANNEL	= Drain Channel
DECHMH	= De-Chlorination Manhole

ROTATION
Not Required

CONDITION, EXP_LIFE, CONST_COST
Not Required

PAC_NUMBER
Not Required

INSTALL_DATE
Date asset was installed
2013-DEC-03 = Sample Value

INSTALL_WBS_NUMBER
Not Required

RETIRED_DATE
Date asset was retired
2013-DEC-03 = Sample Value

RETIRED_WBS_NUMBER
Not Required

RETIRED_PROJECT_ID
Project Id retiring asset
81000 = Sample value



Object Data Table – HYDR (Fire Hydrant)

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RMVD = Removed (Disposal)

Layer	Entity Type
R-WATR-HYDR	Block
C-WATR-HYDR	Block

ASSET_KEY
OWNER
PROJECT_ID
SERVICE_STATUS
UNIT_TYPE
MFG_NAME
ROTATION
CONDITION
EXP_LIFE
CONST_COST
PAC_NUMBER
INSTALL_DATE
INSTALL_WBS_NUMBER
RETIRED_DATE
RETIRED_WBS_NUMBER
RETIRED_PROJECT_ID

UNIT_TYPE
Subordinate type
B = Break Away
N = Non Break Away
1-1 = TC 1l Slide Gate
1 = TC 1 Slide Gate
COMPRS = Compression Hydrant
CLOW B = Brigadier M-93
MUEL M = Modern Centurion
STNDPI = Standpipe

MFG_NAME
Manufacture Name
BRIGST = Briggs Stratton
CANVAL = Canada Valve
CENTUR = Century
CLOW = Clow
DARLIN = Darling
GRINNL = Grinnell Supplies
KENNED = Kennedy
MACVIT = MaCavity
MUELLR = Muller
RAMSEY = Ramsey
SPARLN = Sparling
SUPCEN = Super Centurian
TERMIN = Terminal City

ROTATION
Not Required

CONDITION, EXP_LIFE, CONST_COST
Not Required

PAC_NUMBER
Not Required

INSTALL_DATE
Date asset was installed
2013-DEC-03 = Sample Value

INSTALL_WBS_NUMBER
WBS Number retiring asset
EXX.1234.1.12.12.1234 = Capital
DEVELOPMENT = Development

RETIRED_DATE
Date asset was retired
2013-DEC-03 = Sample Value

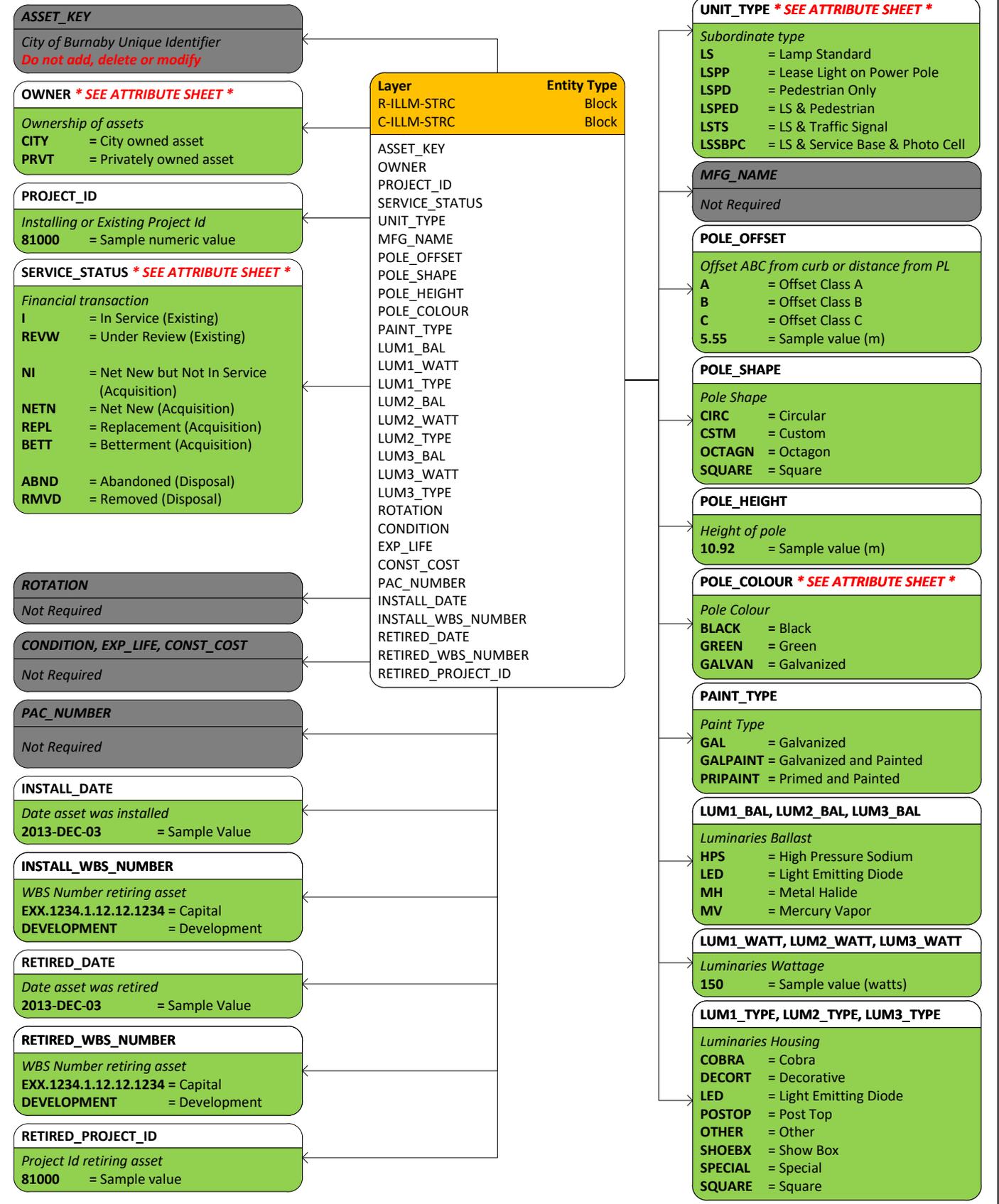
RETIRED_WBS_NUMBER
WBS Number retiring asset
EXX.1234.1.12.12.1234 = Capital
DEVELOPMENT = Development

RETIRED_PROJECT_ID
Project Id retiring asset
81000 = Sample value



Object Data Table – ILLM (Illumination)

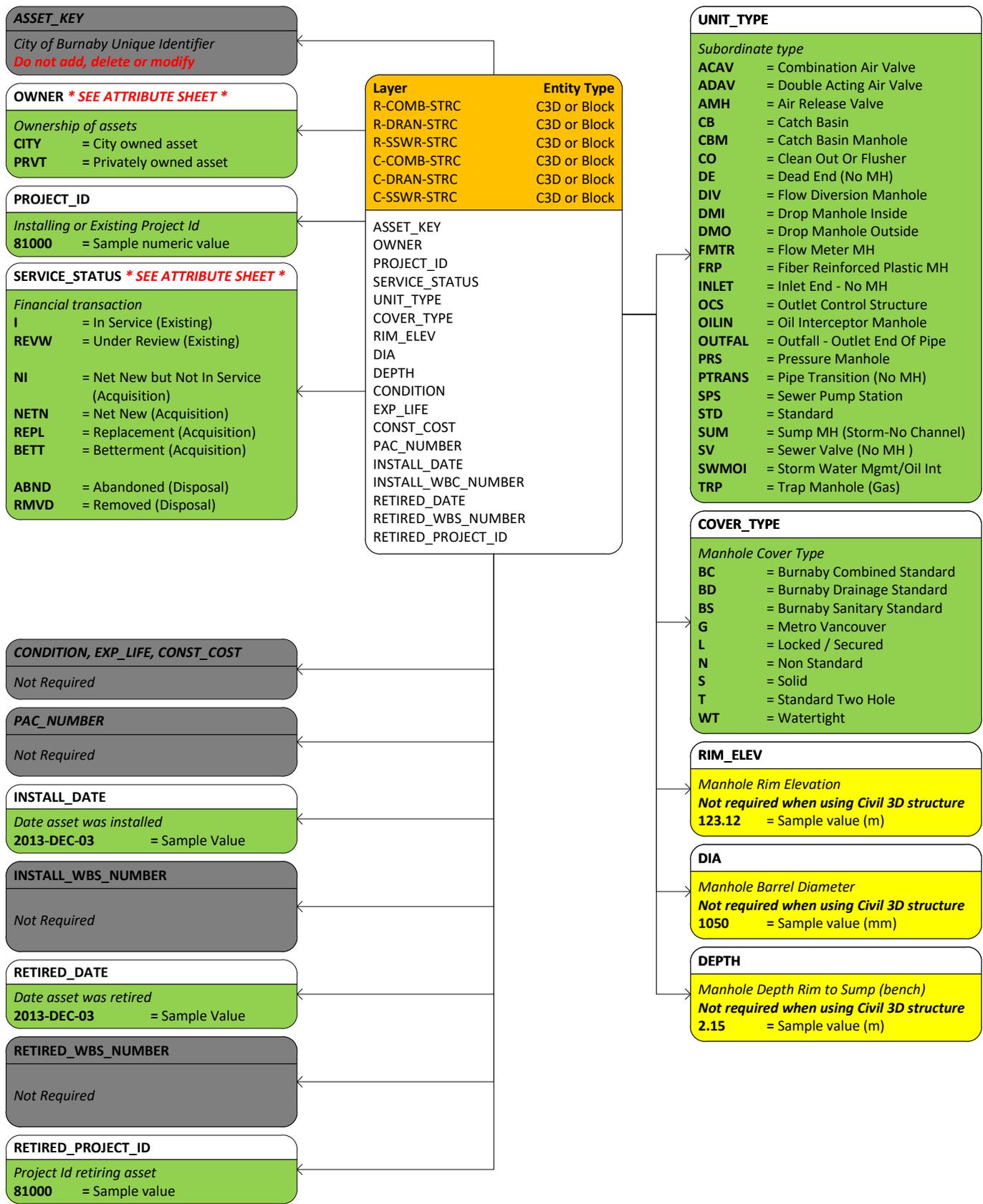
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Object Data Table – MHOL (Manhole)

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Object Data Table – PAVE (Pavement)

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Financial transaction
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REPL = Replacement (Acquisition)
BETT = Betterment (Acquisition)

ABND = Abandoned (Disposal)
RMVD = Removed (Disposal)

Layer	Entity Type
R-LANE-EDGE	Closed Polyline
R-PRKG-EDGE	Closed Polyline
R-ROAD-EDGE	Closed Polyline
C-LANE-EDGE	Closed Polyline
C-PRKG-EDGE	Closed Polyline
C-ROAD-EDGE	Closed Polyline

ASSET_KEY
OWNER
PROJECT_ID
SERVICE_STATUS
UNIT_TYPE
LENGTH
WIDTH
THICK
MATERIAL
CONDITION
EXP_LIFE
CONST_COST
PAC_NUMBER
INSTALL_DATE
INSTALL_WBS_NUMBER
RETIRED_DATE
RETIRED_WBS_NUMBER
RETIRED_PROJECT_ID

UNIT_TYPE
Subordinate type
TOP = Top (0-75mm depth)
FULL = Full (0-200mm depth)
SLOT = SLOT (76-200mm depth)

LENGTH
Not Required

WIDTH
Not Required

THICK
Average Thickness of materials
100 = Sample value (mm)

MATERIAL
Material type
ASPH = Asphalt
CONC = Concrete
GRVL = Gravel
PAVR = Pavers

CONDITION, EXP_LIFE, CONST_COST
Not Required

PAC_NUMBER
Not Required

INSTALL_DATE
Date asset was installed
2013-DEC-03 = Sample Value

INSTALL_WBS_NUMBER
WBS Number retiring asset
EXX.1234.1.12.12.1234 = Capital
DEVELOPMENT = Development

RETIRED_DATE
Date asset was retired
2013-DEC-03 = Sample Value

RETIRED_WBS_NUMBER
WBS Number retiring asset
EXX.1234.1.12.12.1234 = Capital
DEVELOPMENT = Development

RETIRED_PROJECT_ID
Project Id retiring asset
81000 = Sample value



Object Data Table – PIPE (COMB/DRAN/SSWR-PIPE)

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Financial transaction
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REPL = Replacement (Acquisition)
BETT = Betterment (Acquisition)

ABND = Abandoned (Disposal)
RMVD = Removed (Disposal)

Layer	Entity Type
R-COMB-PIPE	C3D or Polyline
R-DRAN-PIPE	C3D or Polyline
R-SSWR-PIPE	C3D or Polyline
C-COMB-PIPE	C3D or Polyline
C-DRAN-PIPE	C3D or Polyline
C-SSWR-PIPE	C3D or Polyline

ASSET_KEY
OWNER
PROJECT_ID
SERVICE_STATUS
UNIT_TYPE
PL_OFFSET
LENGTH
SLOPE
DIA
MATERIAL
SHP
INV_ELEV_DOWN
INV_ELEV_UP
JOINT_LENGTH
JOINT_TYPE
CONDITION
EXP_LIFE
CONST_COST
PAC_NUMBER
INSTALL_DATE
INSTALL_WBS_NUMBER
RETIRED_DATE
RETIRED_WBS_NUMBER
RETIRED_PROJECT_ID

CONDITION, EXP_LIFE, CONST_COST
Not Required

PAC_NUMBER
Not Required

INSTALL_DATE
Date asset was installed
2013-DEC-03 = Sample Value

INSTALL_WBS_NUMBER
WBS Number retiring asset
EXX.1234.1.12.12.1234 = Capital
DEVELOPMENT = Development

RETIRED_DATE
Date asset was retired
2013-DEC-03 = Sample Value

RETIRED_WBS_NUMBER
WBS Number retiring asset
EXX.1234.1.12.12.1234 = Capital
DEVELOPMENT = Development

RETIRED_PROJECT_ID
Project Id retiring asset
81000 = Sample value

UNIT_TYPE * SEE ATTRIBUTE SHEET *
Subordinate type
STD = Sanitary Sewer
F = Forced
CP = Cathodic Protection

PL_OFFSET
Offset from Property Line
5.52 = Sample value (m)

LENGTH
Pipe Length
Not required when using Civil 3D pipe
25.55 = Sample value (m)

SLOPE
Pipe Slope
Not required when using Civil 3D pipe
1.55 = Sample value (%)

DIA
Pipe Diameter
Not required when using Civil 3D structure
250 = Sample value (mm)

MATERIAL * SEE ATTRIBUTE SHEET *
Pipe Material
Not required when using Civil 3D pipe
CONC = Concrete Pipe
CU = Copper
DI = Ductile Iron
PVC = Polyvinyl Chloride
HDPE = HD Polyethylene Chloride

SHP * SEE ATTRIBUTE SHEET *
Pipe Shape
CIRC = CIRCULAR

INV_ELEV_DOWN
Downstream Invert Elevation
Not required when using Civil 3D pipe
123.12 = Sample value (m)

INV_ELEV_UP
Upstream Invert Elevation
Not required when using Civil 3D pipe
123.12 = Sample value (m)

JOINT_LENGTH
Length of Pipe to Pipe Joint
5.5 = Sample value (m)

JOINT_Type
Join Type between Pipe to Pipe
CONC = Concrete
COMPCU = Compression Coupling
NEOPGS = Neoprene Gasket
FLANGE = Flanged
LOKTYT = Lok-TYT Gasket
WELDED = Welded



Object Data Table – PIPE (DRAN-CULV)

SUBJECT:	CAD/C3D Object to Object Data Table & Field Descriptions
SOURCE:	MMCD
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Ownership of assets
CITY = City owned asset
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PROJECT_ID
Installing or Existing Project Id
81000 = Sample numeric value

SERVICE_STATUS * SEE ATTRIBUTE SHEET *
Financial transaction
I = In Service (Existing)
REVV = Under Review (Existing)

NI = Net New but Not In Service (Acquisition)
NETN = Net New (Acquisition)
REPL = Replacement (Acquisition)
BETT = Betterment (Acquisition)

ABND = Abandoned (Disposal)
RMVD = Removed (Disposal)

Layer	Entity Type
R-DRAN-CULV	Polyline
C-DRAN-CULV	Polyline

ASSET_KEY
OWNER
PROJECT_ID
SERVICE_STATUS
UNIT_TYPE
PL_OFFSET
LENGTH
SLOPE
DIA
MATERIAL
SHP
INV_ELEV_DOWN
INV_ELEV_UP
JOINT_LENGTH
JOINT_TYPE
CONDITION
EXP_LIFE
CONST_COST
PAC_NUMBER
INSTALL_DATE
INSTALL_WBS_NUMBER
RETIRED_DATE
RETIRED_WBS_NUMBER
RETIRED_PROJECT_ID

UNIT_TYPE
Subordinate type
V = Culvert

PL_OFFSET
Not Required

LENGTH
Pipe Length
25.55 = Sample value (m)

SLOPE
Pipe Slope
(Not required if DIA <=250)
1.55 = Sample value (%)

DIA
Pipe Diameter
250 = Sample value (mm)

MATERIAL * SEE ATTRIBUTE SHEET *
Pipe Material
CONC = Concrete Pipe
CU = Copper
DI = Ductile Iron
PVC = Polyvinyl Chloride
HDPE = HD Polyethylene Chloride

SHP * SEE ATTRIBUTE SHEET *
Pipe Shape
CIRC = CIRCULAR

INV_ELEV_DOWN
Downstream Invert Elevation
(Not required if DIA <=250)
123.12 = Sample value (m)

INV_ELEV_UP
Upstream Invert Elevation
(Not required if DIA <=250)
123.12 = Sample value (m)

JOINT_LENGTH
Length of Pipe to Pipe Joint
5.5 = Sample value (m)

JOINT_Type
Join Type between Pipe to Pipe
CONC = Concrete
COMPUCU = Compression Coupling
NEOPGS = Neoprene Gasket
FLANGE = Flanged
LOKTYT = Lok-TYT Gasket
WELDED = Welded

CONDITION, EXP_LIFE, CONST_COST
Not Required

PAC_NUMBER
Not Required

INSTALL_DATE
Date asset was installed
2013-DEC-03 = Sample Value

INSTALL_WBS_NUMBER
WBS Number retiring asset
EXX.1234.1.12.12.1234 = Capital
DEVELOPMENT = Development

RETIRED_DATE
Date asset was retired
2013-DEC-03 = Sample Value

RETIRED_WBS_NUMBER
WBS Number retiring asset
EXX.1234.1.12.12.1234 = Capital
DEVELOPMENT = Development

RETIRED_PROJECT_ID
Project Id retiring asset
81000 = Sample value



Object Data Table – PIPE (WATR-PIPE)

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Financial transaction
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NETN = Net New (Acquisition)
REPL = Replacement (Acquisition)
BETT = Betterment (Acquisition)

ABND = Abandoned (Disposal)
RMVD = Removed (Disposal)

Layer	Entity Type
R-WATR-PIPE	C3D or Polyline
C-WATR-PIPE	C3D or Polyline

ASSET_KEY
OWNER
PROJECT_ID
SERVICE_STATUS
UNIT_TYPE
PL_OFFSET
LENGTH
SLOPE
DIA
MATERIAL
SHP
INV_ELEV_DOWN
INV_ELEV_UP
JOINT_LENGTH
JOINT_TYPE
CONDITION
EXP_LIFE
CONST_COST
PAC_NUMBER
INSTALL_DATE
INSTALL_WBS_NUMBER
RETIRED_DATE
RETIRED_WBS_NUMBER
RETIRED_PROJECT_ID

UNIT_TYPE * SEE ATTRIBUTE SHEET *
Subordinate type
W = Water
CTHOD = Cathodic Protection

PL_OFFSET
Offset from Property Line
5.52 = Sample value (m)

LENGTH
Pipe Length
Not required when using Civil 3D pipe
25.55 = Sample value (m)

SLOPE
Not Required

DIA
Pipe Diameter
Not required when using Civil 3D structure
250 = Sample value (mm)

MATERIAL * SEE ATTRIBUTE SHEET *
Pipe Material
Not required when using Civil 3D pipe
CONC = Concrete Pipe
CU = Copper
DI = Ductile Iron
PVC = Polyvinyl Chloride
HDPE = HD Polyethylene Chloride

SHP
Not Required

INV_ELEV_DOWN
Not Required

INV_ELEV_UP
Not Required

JOINT_LENGTH
Length of Pipe to Pipe Joint
5.5 = Sample value (m)

JOINT_Type
Join Type between Pipe to Pipe
CONC = Concrete
COMPUC = Compression Coupling
NEOPGS = Neoprene Gasket
FLANGE = Flanged
LOKTYT = Lok-TYT Gasket
WELDED = Welded

CONDITION, EXP_LIFE, CONST_COST
Not Required

PAC_NUMBER
Not Required

INSTALL_DATE
Date asset was installed
2013-DEC-03 = Sample Value

INSTALL_WBS_NUMBER
WBS Number retiring asset
EXX.1234.1.12.12.1234 = Capital
DEVELOPMENT = Development

RETIRED_DATE
Date asset was retired
2013-DEC-03 = Sample Value

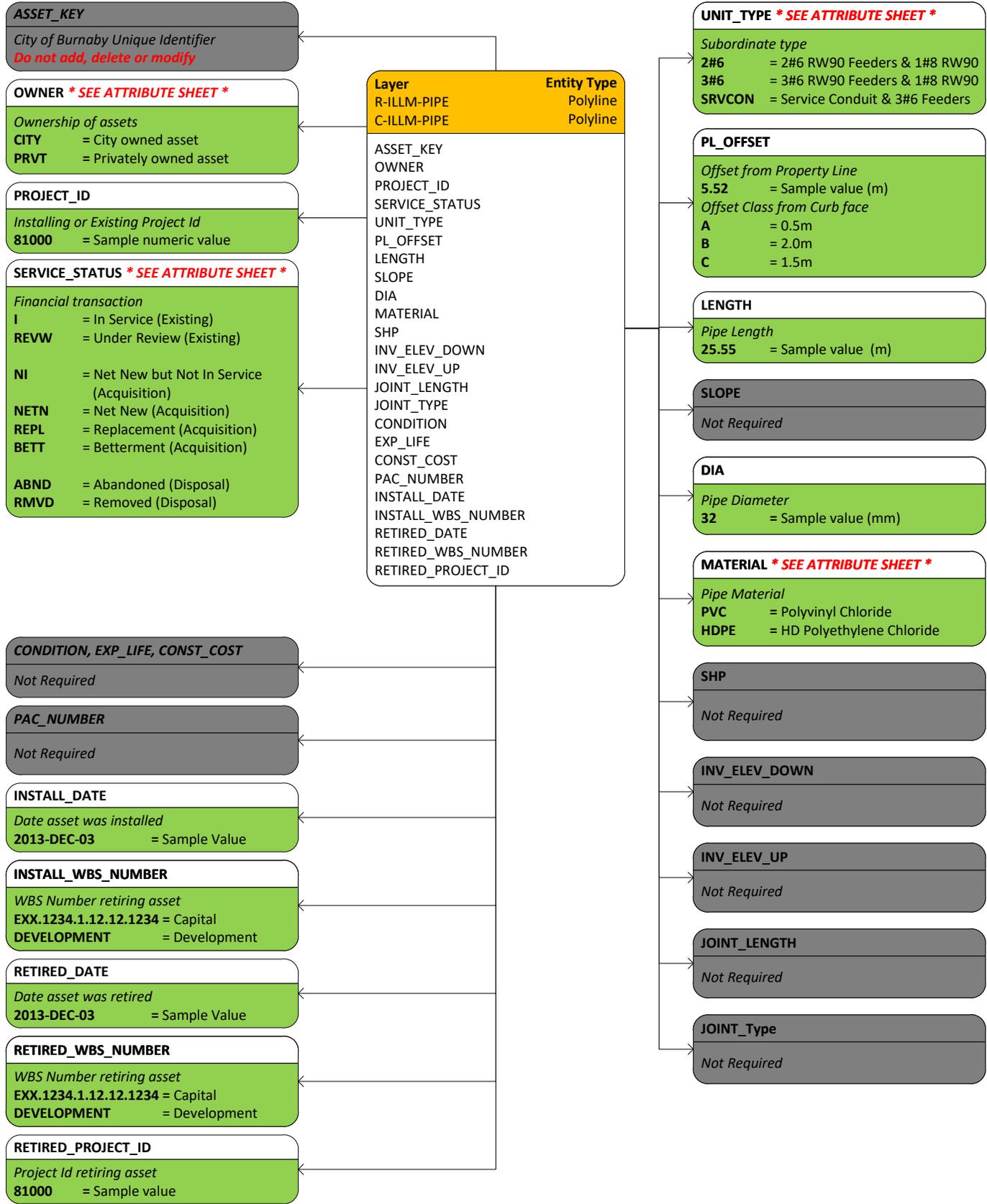
RETIRED_WBS_NUMBER
WBS Number retiring asset
EXX.1234.1.12.12.1234 = Capital
DEVELOPMENT = Development

RETIRED_PROJECT_ID
Project Id retiring asset
81000 = Sample value



Object Data Table – PIPE (ILLM-PIPE)

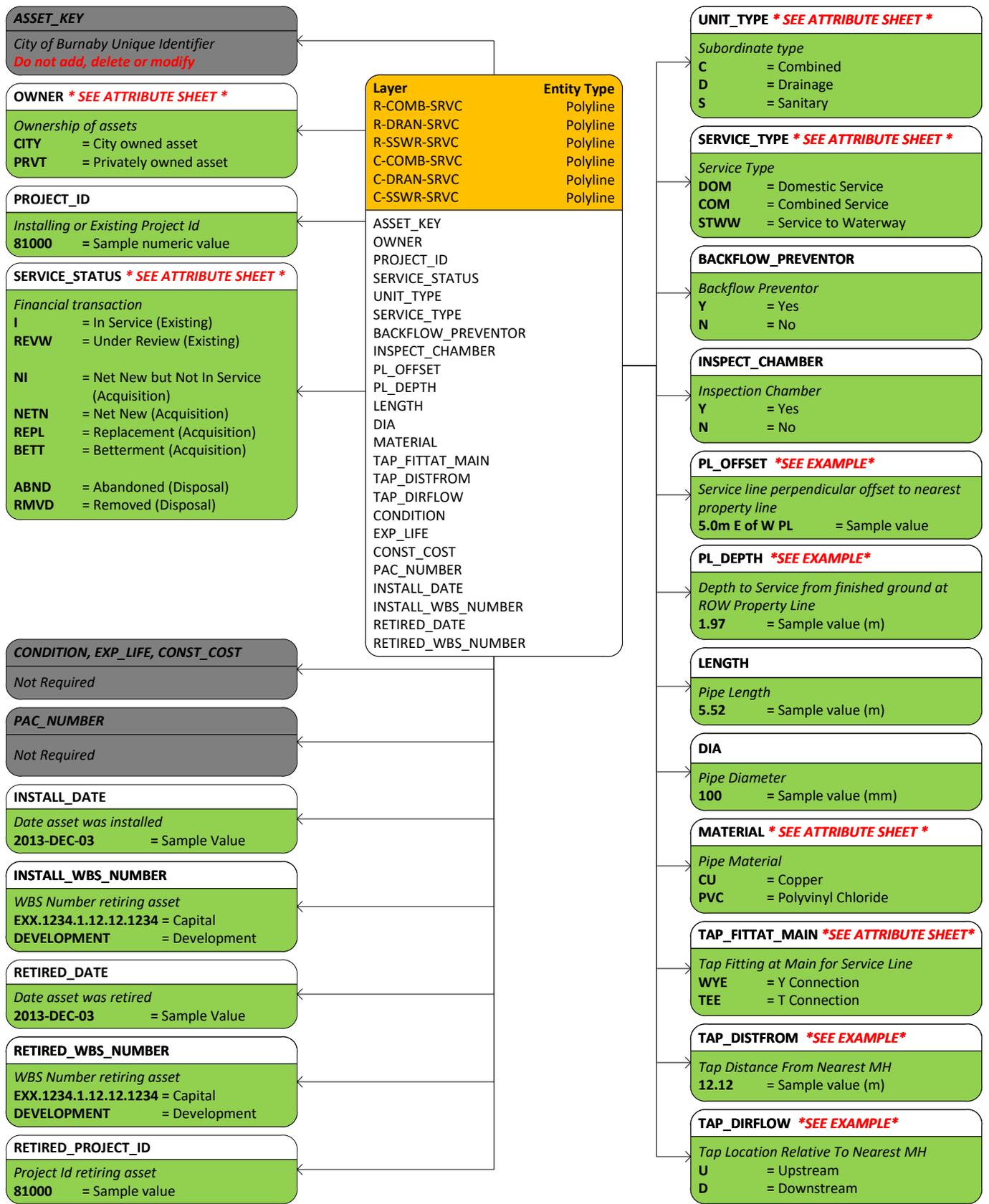
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Object Data Table – SRVC (COMB/DRAN/SSWR-SRVC)

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Object Data Table – SRVC (WATR-SRVC)

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Layer	Entity Type
R-WATR-SRVC	Polyline
C-WATR-SRVC	Polyline

ASSET_KEY
OWNER
PROJECT_ID
SERVICE_STATUS
UNIT_TYPE
SERVICE_TYPE
BACKFLOW_PREVENTOR
INSPECT_CHAMBER
PL_OFFSET
PL_DEPTH
LENGTH
DIA
MATERIAL
TAP_FITTAT_MAIN
TAP_DISTFROM
TAP_DIRFLOW
CONDITION
EXP_LIFE
CONST_COST
PAC_NUMBER
INSTALL_DATE
INSTALL_WBS_NUMBER
RETIRED_DATE
RETIRED_WBS_NUMBER

UNIT_TYPE * SEE ATTRIBUTE SHEET *
Subordinate type
W = Water
IRRVL = Irrigation Vault
WQ_D = Water Quality Test - Standpipe
WQ_K = Water Quality Test - Kiosk
WQ_S = Water Quality Test - Service

SERVICE_TYPE * SEE ATTRIBUTE SHEET *
Service Type
DOM = Domestic Service
FRE = Fire Service
IRR = Irrigation

BACKFLOW_PREVENTOR
Not Required

INSPECT_CHAMBER
Not Required

PL_OFFSET *SEE EXAMPLE*
Service line perpendicular offset to nearest property line
5.0m E of W PL = Sample value

PL_DEPTH
Not Required

LENGTH
Pipe Length
5.52 = Sample value (m)

DIA
Pipe Diameter
100 = Sample value (mm)

MATERIAL * SEE ATTRIBUTE SHEET *
Pipe Material
CU = Copper
PVC = Polyvinyl Chloride

TAP_FITTAT_MAIN
Not Required

TAP_DISTFROM
Not Required

TAP_DIRFLOW
Not Required

CONDITION, EXP_LIFE, CONST_COST
Not Required

PAC_NUMBER
Not Required

INSTALL_DATE
Date asset was installed
2013-DEC-03 = Sample Value

INSTALL_WBS_NUMBER
WBS Number retiring asset
EXX.1234.1.12.12.1234 = Capital
DEVELOPMENT = Development

RETIRED_DATE
Date asset was retired
2013-DEC-03 = Sample Value

RETIRED_WBS_NUMBER
WBS Number retiring asset
EXX.1234.1.12.12.1234 = Capital
DEVELOPMENT = Development

RETIRED_PROJECT_ID
Project Id retiring asset
81000 = Sample value



Object Data Table – SRVC (CBAS-LEAD)

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PROJECT_ID
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81000 = Sample numeric value

SERVICE_STATUS * SEE ATTRIBUTE SHEET *
Financial transaction
I = In Service (Existing)
REVV = Under Review (Existing)

NI = Net New but Not In Service (Acquisition)
NETN = Net New (Acquisition)
REPL = Replacement (Acquisition)
BETT = Betterment (Acquisition)

ABND = Abandoned (Disposal)
RMVD = Removed (Disposal)

Layer	Entity Type
R-DRAN-CBAS-LEAD	Polyline
C-DRAN-CBAS-LEAD	Polyline

ASSET_KEY
OWNER
PROJECT_ID
SERVICE_STATUS
UNIT_TYPE
SERVICE_TYPE
BACKFLOW_PREVENTOR
INSPECT_CHAMBER
PL_OFFSET
PL_DEPTH
LENGTH
DIA
MATERIAL
TAP_FITTAT_MAIN
TAP_DISTFROM
TAP_DIRFLOW
CONDITION
EXP_LIFE
CONST_COST
PAC_NUMBER
INSTALL_DATE
INSTALL_WBS_NUMBER
RETIRED_DATE
RETIRED_WBS_NUMBER

UNIT_TYPE
Subordinate type
D = Drainage

SERVICE_TYPE *SEE EXAMPLE*
Service Type
TCB = Service to Catch Basin
D = Service to Culvert
STCM = Service to Combined Main
STWW = Service to Waterway

BACKFLOW_PREVENTOR
Not Required

INSPECT_CHAMBER
Not Required

PL_OFFSET *SEE EXAMPLE*
Service line perpendicular offset to nearest property line
5.0m E of W PL = Sample value

PL_DEPTH
Not Required

LENGTH
Pipe Length
5.52 = Sample value (m)

DIA
Pipe Diameter
100 = Sample value (mm)

MATERIAL * SEE ATTRIBUTE SHEET *
Pipe Material
CU = Copper
PVC = Polyvinyl Chloride

TAP_FITTAT_MAIN *SEE ATTRIBUTE SHEET*
Tap Fitting at Main for Service Line
WYE = Y Connection
TEE = T Connection

TAP_DISTFROM *SEE EXAMPLE*
Tap Distance From Nearest MH
12.12 = Sample value (m)

TAP_DIRFLOW *SEE EXAMPLE*
Tap Location Relative To Nearest MH
U = Upstream
D = Downstream

CONDITION, EXP_LIFE, CONST_COST
Not Required

PAC_NUMBER
Not Required

INSTALL_DATE
Date asset was installed
2013-DEC-03 = Sample Value

INSTALL_WBS_NUMBER
Not Required

RETIRED_DATE
Date asset was retired
2013-DEC-03 = Sample Value

RETIRED_WBS_NUMBER
Not Required

RETIRED_PROJECT_ID
Project Id retiring asset
81000 = Sample value



Object Data Table – SRVC (HYDR-LEAD)

SUBJECT:	CAD/C3D Object to Object Data Table & Field Descriptions
SOURCE:	MMCD
REVISION DATE:	February 2, 2022

ASSET_KEY
City of Burnaby Unique Identifier
Do not add, delete or modify

OWNER * SEE ATTRIBUTE SHEET *
Ownership of assets
CITY = City owned asset
PRVT = Privately owned asset

PROJECT_ID
Installing or Existing Project Id
81000 = Sample numeric value

SERVICE_STATUS * SEE ATTRIBUTE SHEET *
Financial transaction
I = In Service (Existing)
REVV = Under Review (Existing)

NI = Net New but Not In Service (Acquisition)
NETN = Net New (Acquisition)
REPL = Replacement (Acquisition)
BETT = Betterment (Acquisition)

ABND = Abandoned (Disposal)
RMVD = Removed (Disposal)

Layer	Entity Type
R-WATR-HYDR-LEAD	Polyline
C-WATR-HYDR-LEAD	Polyline

ASSET_KEY
OWNER
PROJECT_ID
SERVICE_STATUS
UNIT_TYPE
SERVICE_TYPE
BACKFLOW_PREVENTOR
INSPECT_CHAMBER
PL_OFFSET
PL_DEPTH
LENGTH
DIA
MATERIAL
TAP_FITTAT_MAIN
TAP_DISTFROM
TAP_DIRFLOW
CONDITION
EXP_LIFE
CONST_COST
PAC_NUMBER
INSTALL_DATE
INSTALL_WBS_NUMBER
RETIRED_DATE
RETIRED_WBS_NUMBER

UNIT_TYPE
Not Required

SERVICE_TYPE
Not Required

BACKFLOW_PREVENTOR
Not Required

INSPECT_CHAMBER
Not Required

PL_OFFSET *SEE EXAMPLE*
Service line perpendicular offset to nearest property line
5.0m E of W PL = Sample value

PL_DEPTH
Not Required

LENGTH
Pipe Length
5.52 = Sample value (m)

DIA
Pipe Diameter
100 = Sample value (mm)

MATERIAL * SEE ATTRIBUTE SHEET *
Pipe Material
CU = Copper
PVC = Polyvinyl Chloride

TAP_FITTAT_MAIN
Not Required

TAP_DISTFROM
Not Required

TAP_DIRFLOW
Not Required

CONDITION, EXP_LIFE, CONST_COST
Not Required

PAC_NUMBER
Not Required

INSTALL_DATE
Date asset was installed
2013-DEC-03 = Sample Value

INSTALL_WBS_NUMBER
Not Required

RETIRED_DATE
Date asset was retired
2013-DEC-03 = Sample Value

RETIRED_WBS_NUMBER
Not Required

RETIRED_PROJECT_ID
Project Id retiring asset
81000 = Sample value



Object Data Table – VALV (Valve)

SUBJECT:	CAD/C3D Object to Object Data Table & Field Descriptions
SOURCE:	MMCD
REVISION DATE:	February 2, 2022

ASSET_KEY
City of Burnaby Unique Identifier
Do not add, delete or modify

OWNER * SEE ATTRIBUTE SHEET *
Ownership of assets
CITY = City owned asset
PRVT = Privately owned asset

PROJECT_ID
Installing or Existing Project Id
81000 = Sample numeric value

SERVICE_STATUS * SEE ATTRIBUTE SHEET *
Financial transaction
I = In Service (Existing)
REVV = Under Review (Existing)

NI = Net New but Not In Service (Acquisition)
NETN = Net New (Acquisition)
REPL = Replacement (Acquisition)
BETT = Betterment (Acquisition)

ABND = Abandoned (Disposal)
RMVD = Removed (Disposal)

ROTATION
Not Required

CONDITION, EXP_LIFE, CONST_COST
Not Required

PAC_NUMBER
Not Required

INSTALL_DATE
Date asset was installed
2013-DEC-03 = Sample Value

INSTALL_WBS_NUMBER
Not Required

RETIRED_DATE
Date asset was retired
2013-DEC-03 = Sample Value

RETIRED_WBS_NUMBER
Not Required

RETIRED_PROJECT_ID
Project Id retiring asset
81000 = Sample value

Layer	Entity Type
R-SSWR-VALV	Block
R-WATR-VALV	Block
C-SSWR-VALV	Block
C-WATR-VALV	Block

ASSET_KEY
OWNER
PROJECT_ID
SERVICE_STATUS
UNIT_TYPE
MFG_NAME
DIA
STATUS
ROTATION
CONDITION
EXP_LIFE
CONST_COST
INSTALL_DATE
INSTALL_WBS_NUMBER
RETIRED_DATE
RETIRED_WBS_NUMBER
RETIRED_PROJECT_ID

UNIT_TYPE
Subordinate type
ACAV = Combination Air Valve
ADAV = Double Acting Air Valve
ARV = Air Release Valve
BTRV = Butterfly Valve
BTVG = Butterfly Valve Geared
CBSTOP = Curb Stop
DDGV = Double Disk Gate Valve
DSCV = Double Disc Swing Check Valve
GVG = Gate Valve Geared
GVW = Gate Valve Wheeled
PLGV = Plug Valve
PRV = Pressure Reducing Valve
RSGV = Resilient Seat Gate Valve
SCV = Swing Check Valve
SDV = Self Draining Standpipe
SWGCV = Solid Wedge Gate Valve
UNKNOWN = Unknown

MFG_NAME
Manufacture Name
APCO = APCO
AVK = AVK Group
CLOW = Clow
DARLIN = Darling
JENKNS = Jenkins
KENNED = Kennedy
MCAVIT = McAvity
MUELLR = Mueller
TERMIN = Terminal City
TOYO = Toyo

DIA
Valve Diameter Size
200 = Sample value (mm)

STATUS
Valve Status
C = Closed
O = Open
P = Partial Closure



Object Data Table – WALK (ROAD-WALK)

SUBJECT:	CAD/C3D Object to Object Data Table & Field Descriptions
SOURCE:	MMCD
REVISION DATE:	February 2, 2022

ASSET_KEY
City of Burnaby Unique Identifier
Do not add, delete or modify

OWNER * SEE ATTRIBUTE SHEET *
Ownership of assets
CITY = City owned asset
PRVT = Privately owned asset

PROJECT_ID
Installing or Existing Project Id
81000 = Sample numeric value

SERVICE_STATUS * SEE ATTRIBUTE SHEET *
Financial transaction
I = In Service (Existing)
REVV = Under Review (Existing)

NI = Net New but Not In Service (Acquisition)
NETN = Net New (Acquisition)
REPL = Replacement (Acquisition)
BETT = Betterment (Acquisition)

ABND = Abandoned (Disposal)
RMVD = Removed (Disposal)

Layer	Entity Type
R-ROAD-WALK	Closed Polyline
C-ROAD-WALK	Closed Polyline

ASSET_KEY
 OWNER
 PROJECT_ID
 SERVICE_STATUS
 UNIT_TYPE
 LENGTH
 WIDTH
 THICK
 MATERIAL
 NAME
 ID
 CONDITION
 EXP_LIFE
 CONST_COST
 PAC_NUMBER
 INSTALL_DATE
 INSTALL_WBS_NUMBER
 RETIRED_DATE
 RETIRED_WBS_NUMBER
 RETIRED_PROJECT_ID

UNIT_TYPE
Subordinate type
ABBUT = Abutting Curb
MONOL = Monolithic Curb
SEPER = Separated
STAIRS = Stairs
WALKW = Walkway
WHLCHR = Wheelchair Ramp

LENGTH
Length of walk
20.12 = Sample value (m)

WIDTH
Average Width of walk
5.15 = Sample value (m)

THICK
Thickness of material
100 = Sample value (mm)

MATERIAL
Material of walk
ASPH = Asphalt
BWLK = Boardwalk
CONC = Concrete
GRVL = Gravel
PAVR = Pavers

NAME
Not Required

ID
Not Required

CONDITION, EXP_LIFE, CONST_COST
Not Required

PAC_NUMBER
Not Required

INSTALL_DATE
Date asset was installed
2013-DEC-03 = Sample Value

INSTALL_WBS_NUMBER
WBS Number retiring asset
EXX.1234.1.12.12.1234 = Capital
DEVELOPMENT = Development

RETIRED_DATE
Date asset was retired
2013-DEC-03 = Sample Value

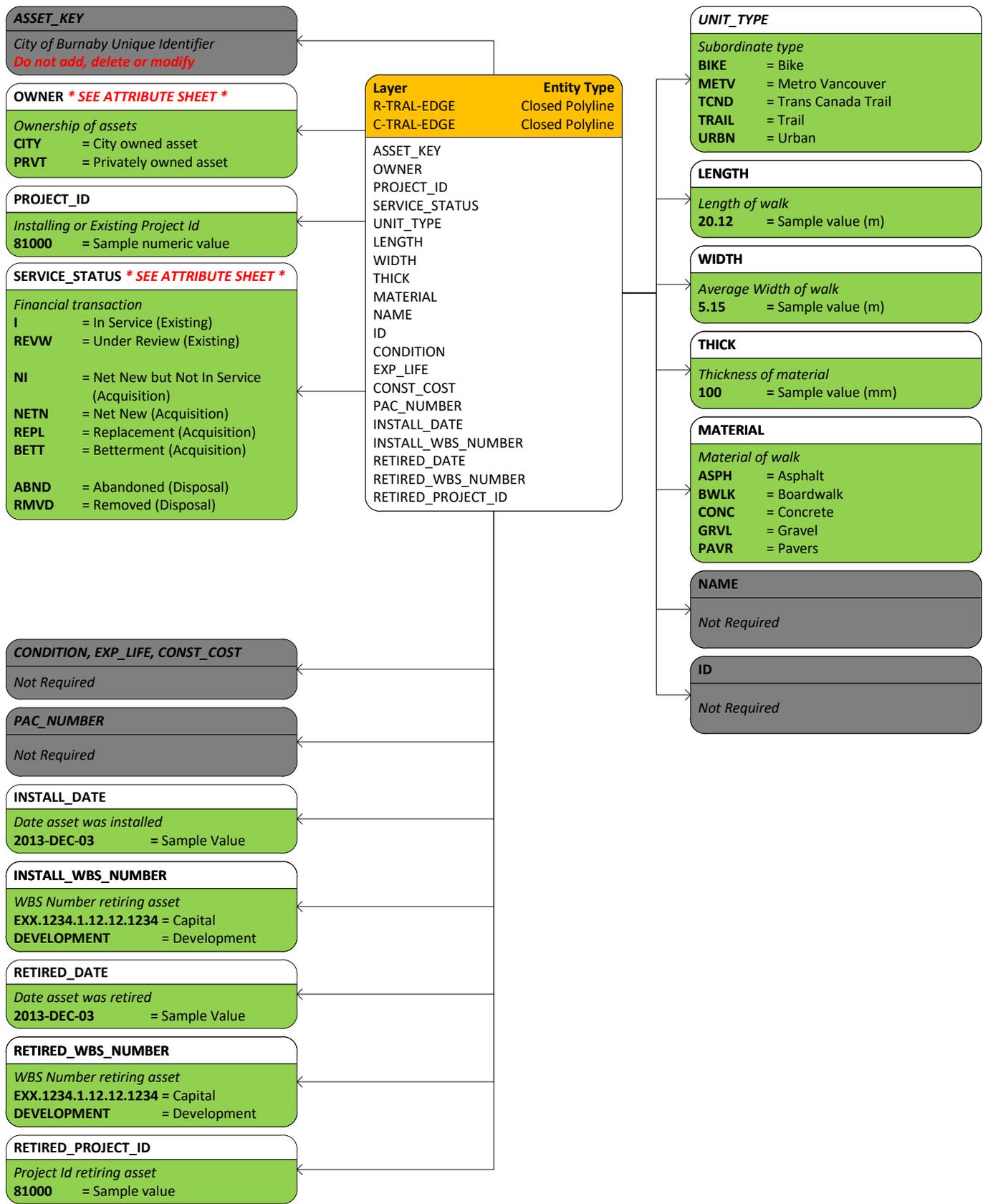
RETIRED_WBS_NUMBER
WBS Number retiring asset
EXX.1234.1.12.12.1234 = Capital
DEVELOPMENT = Development

RETIRED_PROJECT_ID
Project Id retiring asset
81000 = Sample value



Object Data Table – WALK (TRAIL-EDGE)

SUBJECT:	CAD/C3D Object to Object Data Table & Field Descriptions
SOURCE:	MMCD
REVISION DATE:	February 2, 2022





Object Data Table – WWAY (Waterway)

SUBJECT:	CAD/C3D Object to Object Data Table & Field Descriptions
SOURCE:	MMCD
REVISION DATE:	February 2, 2022

ASSET_KEY
City of Burnaby Unique Identifier
Do not add, delete or modify

OWNER * SEE ATTRIBUTE SHEET *
Ownership of assets
CITY = City owned asset
PRVT = Privately owned asset

PROJECT_ID
Installing or Existing Project Id
81000 = Sample numeric value

SERVICE_STATUS * SEE ATTRIBUTE SHEET *
Financial transaction
I = In Service (Existing)
REVV = Under Review (Existing)

NI = Net New but Not In Service (Acquisition)
NETN = Net New (Acquisition)
REPL = Replacement (Acquisition)
BETT = Betterment (Acquisition)

ABND = Abandoned (Disposal)
RMVD = Removed (Disposal)

Layer	Entity Type
R-DRAN-WWAY	Polyline
C-DRAN-WWAY	Polyline

ASSET_KEY
OWNER
PROJECT_ID
SERVICE_STATUS
UNIT_TYPE
LENGTH
WIDTH
NAME
ID
CONDITION
EXP_LIFE
CONST_COST
PAC_NUMBER
INSTALL_DATE
INSTALL_WBS_NUMBER
RETIRED_DATE
RETIRED_WBS_NUMBER
RETIRED_PROJECT_ID

UNIT_TYPE
Subordinate type
A = Salmonid, potentially inhabited year round with access enhancement
A(0) = Salmonid, primarily during the overwintering period
B = Significant food, No fish
C = Insignificant food, No fish

LENGTH
Length of waterway
70.15 = Sample value (m)

WIDTH
Average width of waterway
5.35 = Sample value (m)

NAME
Name of waterway
MMCD CREEK = Sample value

ID
ID of waterway
1234.CRK = Sample value

CONDITION, EXP_LIFE, CONST_COST
Not Required

PAC_NUMBER
Not Required

INSTALL_DATE
Date asset was installed
2013-DEC-03 = Sample Value

INSTALL_WBS_NUMBER
WBS Number retiring asset
EXX.1234.1.12.12.1234 = Capital DEVELOPMENT = Development

RETIRED_DATE
Date asset was retired
2013-DEC-03 = Sample Value

RETIRED_WBS_NUMBER
WBS Number retiring asset
EXX.1234.1.12.12.1234 = Capital DEVELOPMENT = Development

RETIRED_PROJECT_ID
Project Id retiring asset
81000 = Sample value

AutoCAD Layer's without Object Data



SUBJECT:	Expanded AutoCAD Layers List, Attribute Values and Descriptions
SOURCE:	MMCD
REVISION DATE:	February 2, 2022

- []-TCOM-PIPE = Telecommunication Pipe (conduit)
- []-TCOM-STRC = Telecommunication Structure (junction box)
- []-ROAD-MRKG = Road Paint/Marking
- []-ROAD-SIGN = Road Signage

Attribute – ILLM (UNIT_TYPE, POLE_COLOUR)



SUBJECT:	Expanded AutoCAD Layers List, Attribute Values and Descriptions
SOURCE:	MMCD
REVISION DATE:	February 2, 2022

Layer	Entity Type
R-ILLM-STRC	Block
C-ILLM-STRC	Block
ASSET_KEY	
OWNER	
PROJECT_ID	
SERVICE_STATUS	
UNIT_TYPE	
MFG_NAME	
POLE_OFFSET	
POLE_SHAPE	
POLE_HEIGHT	
POLE_COLOUR	
PAINT_TYPE	
LUM1_BAL	
LUM1_WATT	
LUM1_TYPE	
LUM2_BAL	
LUM2_WATT	
LUM2_TYPE	
LUM3_BAL	
LUM3_WATT	
LUM3_TYPE	
ROTATION	
CONDITION	
EXP_LIFE	
CONST_COST	
PAC_NUMBER	
INSTALL_DATE	
INSTALL_WBS_NUMBER	
RETIRED_DATE	
RETIRED_WBS_NUMBER	
RETIRED_PROJECT_ID	

UNIT_TYPE
<i>Subordinate type</i>
LIGHTF = Light Sportsfield
LIGHTL = Light Parking Lot
LIGHTP = Light Park
LS = Lamp Standard Single Head
LS2 = Lamp Standard Double Head
LS3 = Lamp Standard Triple Head
LSDECO = Decorative Light
LSDR = L.W.Duplex Receptacle
LSOH = Lit Overhead Crossing
LSOHS = Lit Overhead Crossing Special
LSPC = Lampstand With Photocel
LSPD = Pedestrian Light
LSPED = Lamp Standard & Pedestrian Lgt
LSPP = Lamp Standard Power Pole
LSSBPC = LS Servicebase.Photocel
LSSPCL = Special Light Type
LSTS = Lamp Standard Traffic Signal
OH = Overhead Crossing
OHS = Overhead Crossing Special
PED = Pedestrian Street Light
SRVPNL = Service Panel

POLE_COLOUR
<i>Pole Colour</i>
BLACK = Black
BLUE = Blue
BRONZE = Bronze
CHARCOAL = Charcoal
GALVAN = Galvanized
GREEN = Green
GREY = Grey
ORANGE = Orange
RED = Red
RED/BL = Red/Blue
RED/GR = Red/Green
RED/YEL = Red/Yellow
SILVER = Silver
WHI/BL = White/Blue
WHI/GR = White/Green
WHI/GR/R = White/Green/Red
WHI/RED = White/Red
WHITE = White
YELLOW = Yellow



Attribute – PIPE (UNIT_TYPE, SHP, MATERIAL)

SUBJECT:	Expanded AutoCAD Layers List, Attribute Values and Descriptions
SOURCE:	MMCD
REVISION DATE:	February 2, 2022

Layer	Entity Type
R-COMB-PIPE	C3D or Polyline
R-DRAN-CULV	Polyline
R-DRAN-PIPE	C3D or Polyline
R-ILLM-PIPE	Polyline
R-SSWR-PIPE	C3D or Polyline
R-WATR-PIPE	C3D or Polyline
C-COMB-PIPE	C3D or Polyline
C-DRAN-CULV	Polyline
C-DRAN-PIPE	C3D or Polyline
C-ILLM-PIPE	Polyline
C-SSWR-PIPE	C3D or Polyline
C-WATR-PIPE	C3D or Polyline

- ASSET_KEY
- OWNER
- PROJECT_ID
- SERVICE_STATUS
- UNIT_TYPE
- PL_OFFSET
- LENGTH
- SLOPE
- DIA
- MATERIAL
- SHP
- INV_ELEV_DOWN
- INV_ELEV_UP
- JOINT_LENGTH
- JOINT_TYPE
- CONDITION
- EXP_LIFE
- CONST_COST
- PAC_NUMBER
- INSTALL_DATE
- INSTALL_WBS_NUMBER
- RETIRED_DATE
- RETIRED_WBS_NUMBER
- RETIRED_PROJECT_ID

UNIT_TYPE	
<i>Subordinate type</i>	
2#6	= 2#6 RW90 Feeders & 1#8 RW90
3#6	= 3#6 RW90 Feeders & 1#8 RW90
A	= Interceptor
C	= Combined Drainage/Sanitary
COND	= Conduit Only
CBLEAD	= CB Lead
CTHOD	= Cathodic Protection
D	= Drainage
DITENC	= Ditch Enclosure
F	= Force Main
G	= MetroVan Trunk Main
H	= Open Channel/Ditch
I	= Siphon
L	= Clean Out/Flusher
N	= Natural Flow Channel/Creek
O	= Overflow
P	= Pressure Gravity Main
SRVCON	= Service Conduit & 3#6 Feeders
S	= Sanitary Sewer
T	= Stub
V	= Culvert
W	= Water
VRX	= Culvert Large Crossing Road

SHP	
<i>Pipe Shape</i>	
ARCH	= Arched Pipe
CIRC	= Circular
CURV	= Curve Designation For Mapping
DTCH	= Ditch
EGG	= Egg Shape
HRSH	= Horseshoe Shape
NCHN	= Natural Channel
OVAL	= Oval
RCHN	= Rectangular Channel
RECT	= Rectangular Box
SEMI	= Semi-Elliptical
TCHN	= Trapezoidal Channel
VAR	= Variable Shape
VEE	= Vee Shaped

MATERIAL	
<i>Pipe Material</i>	
ABS	= Acrylonitrile Butadiene Sty.
ACC	= American Concrete Cylinder
ACMP	= Asphalt Corrugated Steel Pipe
ACP	= Asbestos Cement Pipe
ACPPVC	= Asbestos Cement With Pvc Liner
BRK	= Brick
CI	= Cast Iron
CIC	= Cast Iron Cement Lined
CMP	= Corrugated Steel Pipe
CO	= Concrete Pipe
CON	= Poured-In-Place Concrete
CONC	= Concrete Pipe
CONPVC	= Concrete Pipe With Pvc Liner
CU	= Copper
CUAS	= Copper Assumed
CUPB	= Copper Polybutelene Combo
DI	= Ductile Iron Pipe
FRP	= Fiberglass Reinforced Pipe
GA-CU	= Galvanized And Copper
GALV	= Galvanized Pipe
GALVAS	= Galvanized Pipe Assumed
HDPE	= High Density Polyethylene
NCP	= Non-Reinforced Concrete Pipe
ORG	= Orangeberg
PB	= Polybutylene
PBAS	= Polybutylene Assumed
PEP	= Polyethylene Pipe
PLP	= Plastic Lined Pipe
PVC	= Polyvinyl Chloride Pipe
RCB	= Reinforced Concrete Box
RCKCHN	= Rock Channel
RCP	= Reinforced Concrete Pipe
RPM	= Reinforced Plastic Mortar Pipe
STL	= Steel Pipe
T	= Asbestos Cement (Transite)
URC	= Unreinforced Concrete
VCP	= Vitrified Clay Pipe
VCPPVC	= Vcpipe With Pvc Liner
VSG	= Vitrified Segmented Duct
WOD	= Wooden Pipe
XXX	= Other
ZZZ	= Not Known

Attribute – SRVC (UNIT_TYPE, SERVICE_TYPE, MATERIAL)



SUBJECT:	Expanded AutoCAD Layers List, Attribute Values and Descriptions
SOURCE:	MMCD
REVISION DATE:	February 2, 2022

Layer	Entity Type
R-COMB-SRVC	Polyline
R-DRAN-CBAS-LEAD	Polyline
R-DRAN-SRVC	Polyline
R-SSWR-SRVC	Polyline
R-WATR-HYDR-LEAD	Polyline
R-WATR-SRVC	Polyline
C-COMB-SRVC	Polyline
C-DRAN-CBAS-LEAD	Polyline
C-DRAN-SRVC	Polyline
C-SSWR-SRVC	Polyline
C-WATR-HYDR-LEAD	Polyline
C-WATR-SRVC	Polyline

- ASSET_KEY
- OWNER
- PROJECT_ID
- SERVICE_STATUS
- UNIT_TYPE
- SERVICE_TYPE
- BACKFLOW_PREVENTOR
- INSPECT_CHAMBER
- PL_OFFSET
- PL_DEPTH
- LENGTH
- DIA
- MATERIAL
- TAP_FITTAT_MAIN
- TAP_DISTFROM
- TAP_DIRFLOW
- CONDITION
- EXP_LIFE
- CONST_COST
- PAC_NUMBER
- INSTALL_DATE
- INSTALL_WBS_NUMBER
- RETIRED_DATE
- RETIRED_WBS_NUMBER

UNIT_TYPE
<i>Subordinate type</i>
CMB-D = Combined Future Storm
CMB-S = Combined Future Sanitary
CMB-UD = Combined - Used For Drainage
D = Drainage
IRRVLV = Irrigation Vault
LPSFM = Low Pressure San Forcemain
S = Sanitary
W = Water
WQ_D = Water Quality Test - Standpipe
WQ_K = Water Quality Test - Kiosk
WQ_S = Water Quality Test - Service

SERVICE_TYPE
<i>Service Type</i>
COM = Combined Service
D = Service To Culvert
DOM = Domestic Service
FRE = Fire Service
IRR = Irrigation
NS = No Service
NSEP = No Service - Septic
SLCO = Service Line To Clean Out
SLPH = Service Line Place Holder
SS = Sub Standard Service
STCM = Service To Combined Main
STIS = Service Intersects Service
STWW = Service To Waterway
TCB = Service To Catch Basin

TAP_FITTAT_MAIN
<i>Tap Fitting at Main for Service Line</i>
HUB =
INTO CB =
INTO CBLEAD =
INTO CO =
INTO CULV =
INTO MH =
INTO SUMP =
SADDLE =
TEE =
WYE =

MATERIAL
<i>Pipe Material</i>
ABS = Acrylonitrile Butadiene Styrene
ACC = American Concrete Cylinder
ACMP = Asphalt Corrugated Steel Pipe
ACP = Asbestos Cement Pipe
ACPPVC = Asbestos Cement With Pvc Liner
BRK = Brick
CI = Cast Iron
CIC = Cast Iron Cement Lined
CMP = Corrugated Steel Pipe
CO = Concrete Pipe
CON = Poured-In-Place Concrete
CONC = Concrete Pipe
CONPVC = Concrete Pipe With Pvc Liner
CU = Copper
CUAS = Copper Assumed
CUPB = Copper Polybutylene Combo
DI = Ductile Iron Pipe
FRP = Fiberglass Reinforced Pipe
GA-CU = Galvanized And Copper
GALV = Galvanized Pipe
GALVAS = Galvanized Pipe Assumed
HDPE = High Density Polyethylene
NCP = Non-Reinforced Concrete Pipe
ORG = Orangeberg
PB = Polybutylene
PBAS = Polybutylene Assumed
PEP = Polyethylene Pipe
PLP = Plastic Lined Pipe
PVC = Polyvinyl Chloride Pipe
RCB = Reinforced Concrete Box
RCKCHN = Rock Channel
RCP = Reinforced Concrete Pipe
RPM = Reinforced Plastic Mortar Pipe
STL = Steel Pipe
T = Asbestos Cement (Transite)
URC = Unreinforced Concrete
VCP = Vitrified Clay Pipe
VCPPVC = Vcpipe With Pvc Liner
VSG = Vitrified Segmented Duct
WOD = Wooden Pipe
XXX = Other
ZZZ = Not Known

PL_OFFSET
 Service line perpendicular offset to nearest property line
 1.5m E of W PL = Sample value

PL_DEPTH
 Depth to Service from finished ground at ROW Property Line
 1.4 = Sample value (m)

