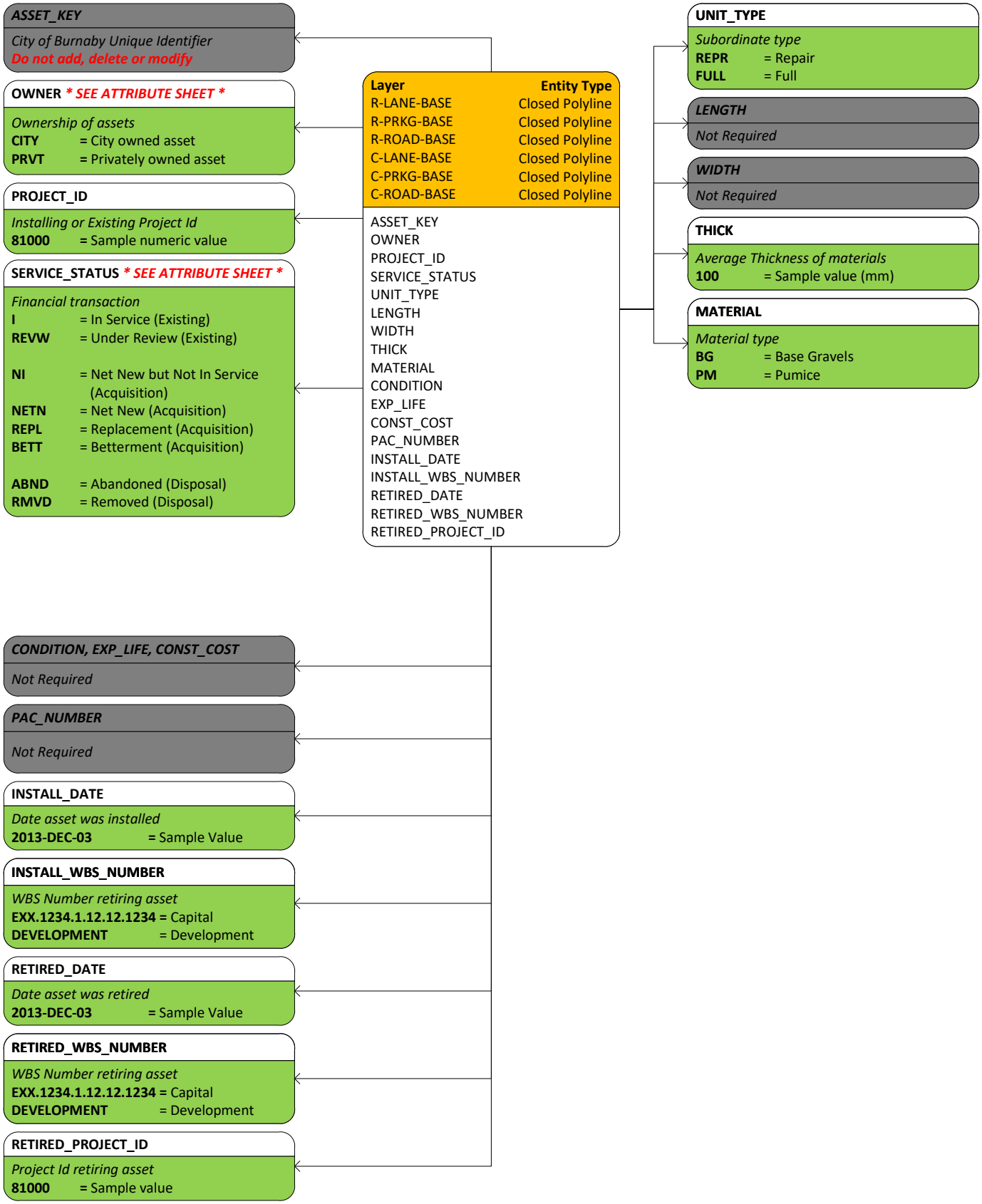
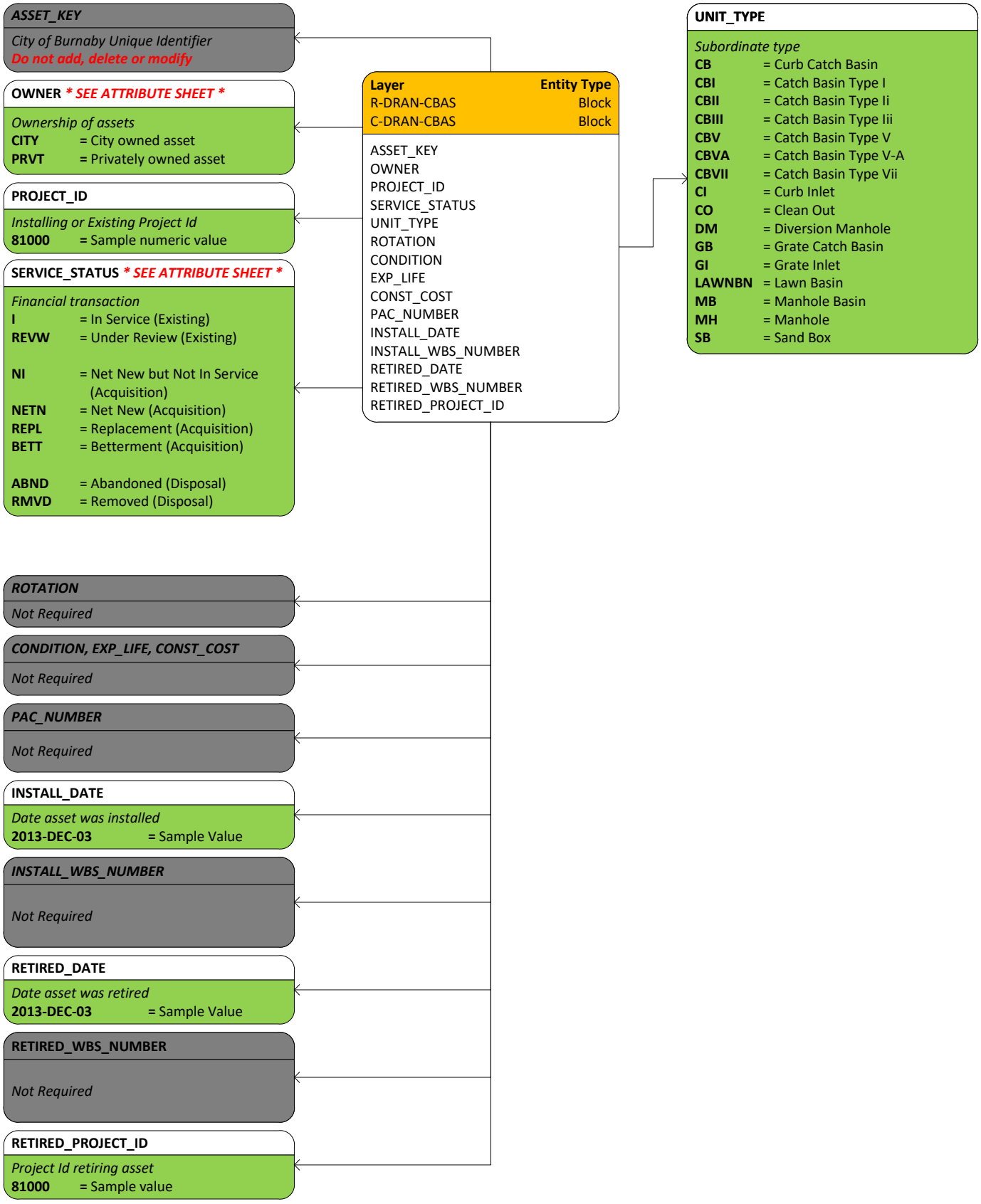
Object Data Table – **BASE (Structure Granular)**

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



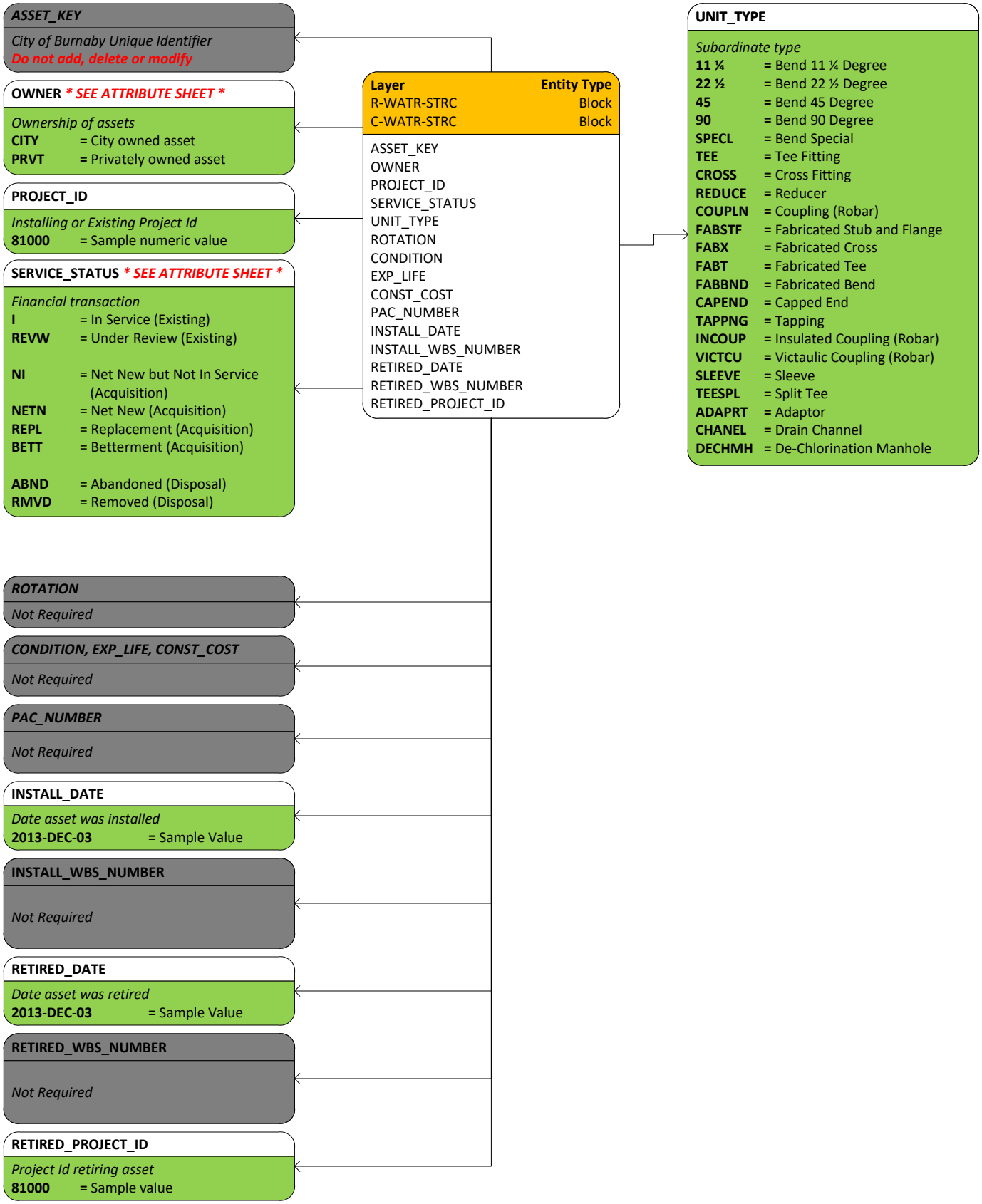
Object Data Table – **CBAS (Catch Basin, Inlet Structures)**

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



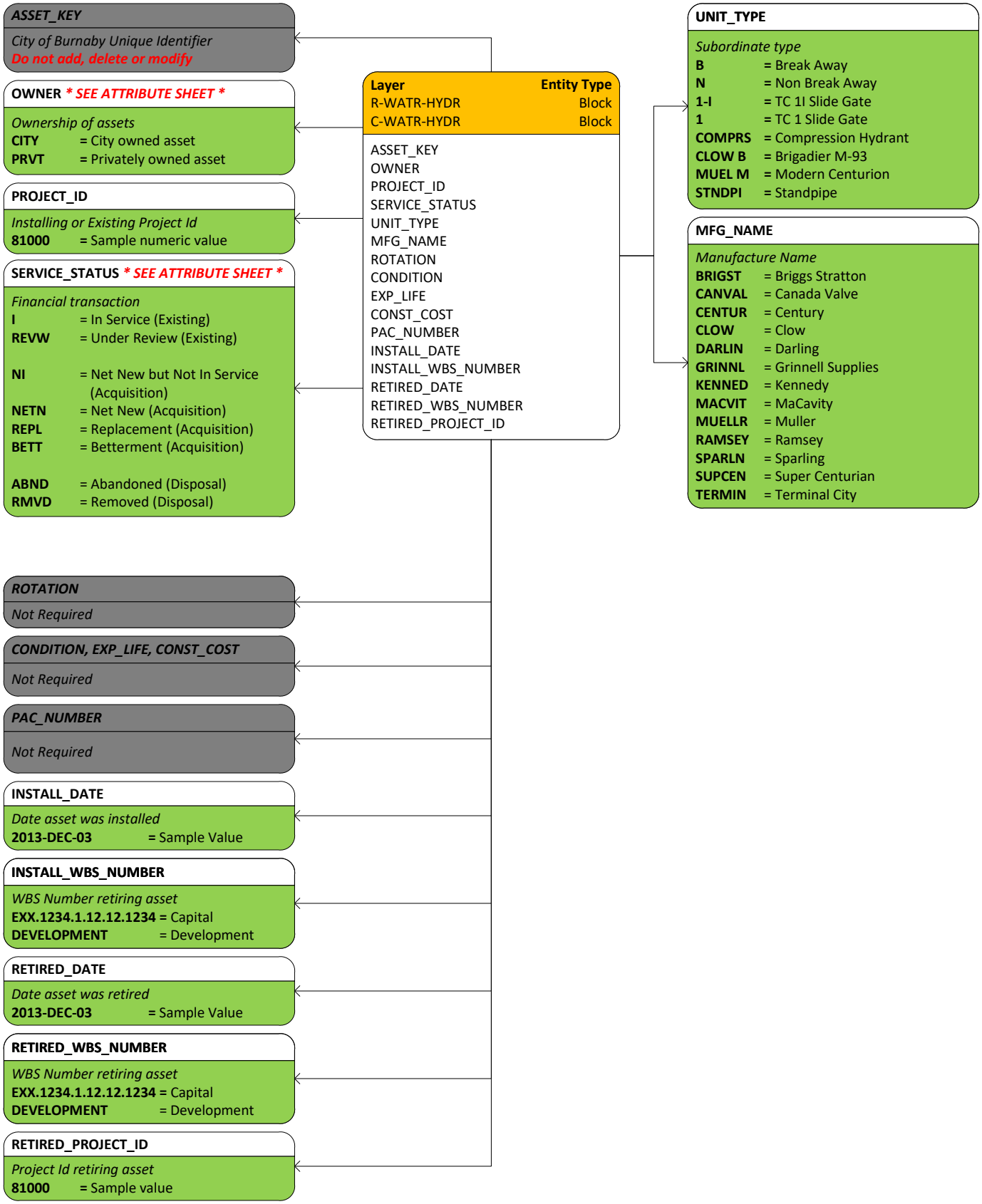
Object Data Table – **FITT (Water Fitting)**

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



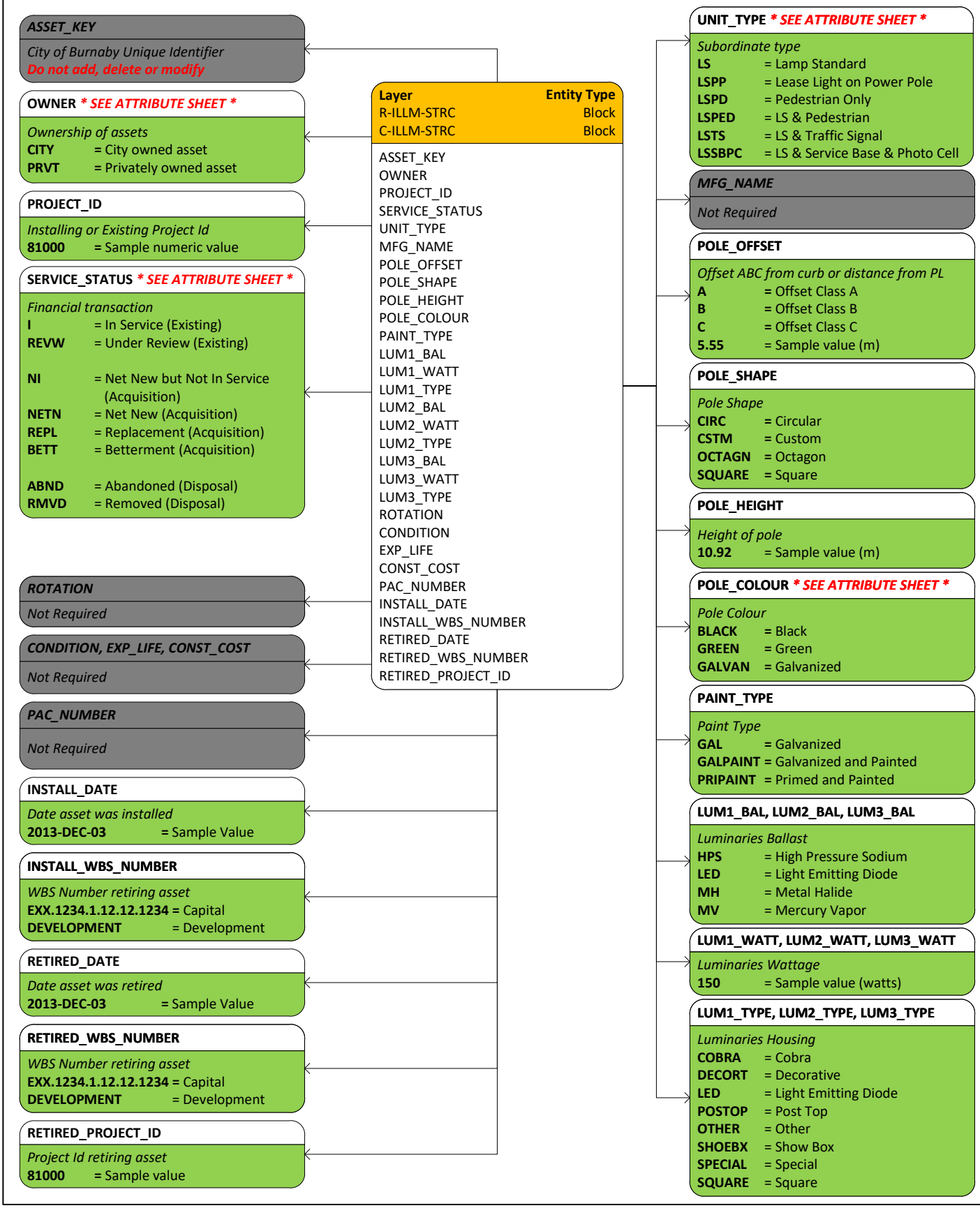
Object Data Table – **HYDR (Fire Hydrant)**

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



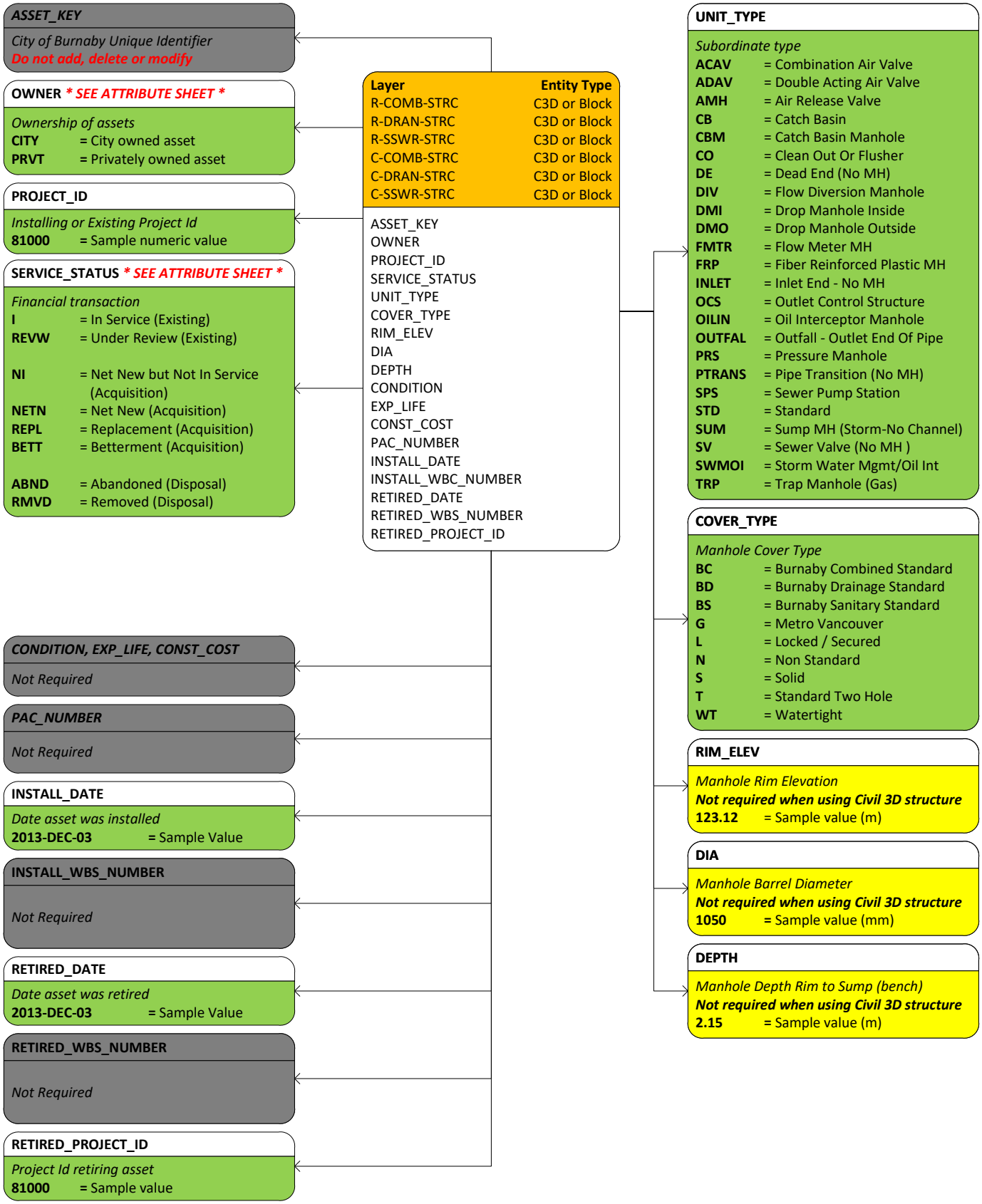
Object Data Table – **ILLM (Illumination)**

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



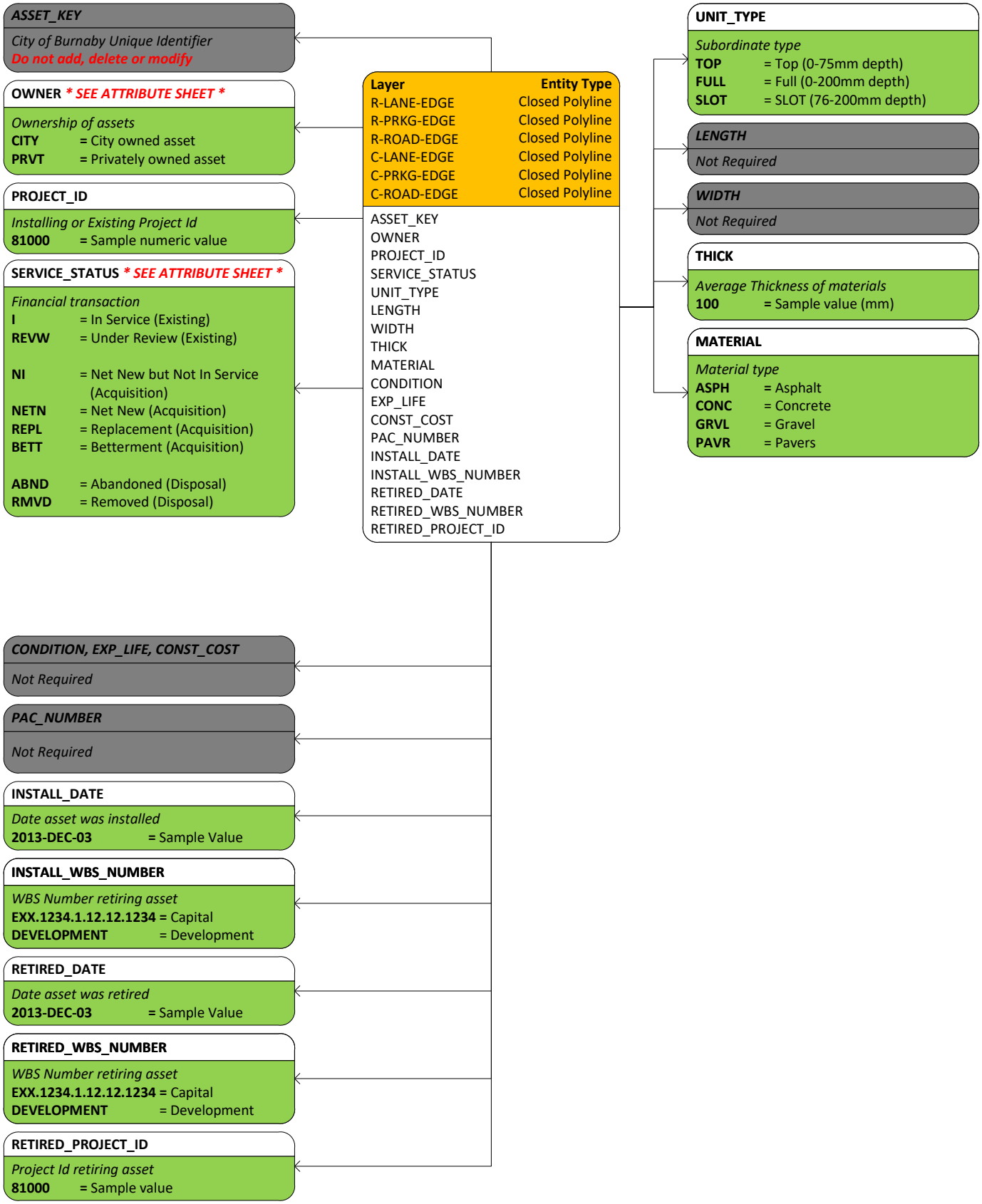
Object Data Table – **MHOL (Manhole)**

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



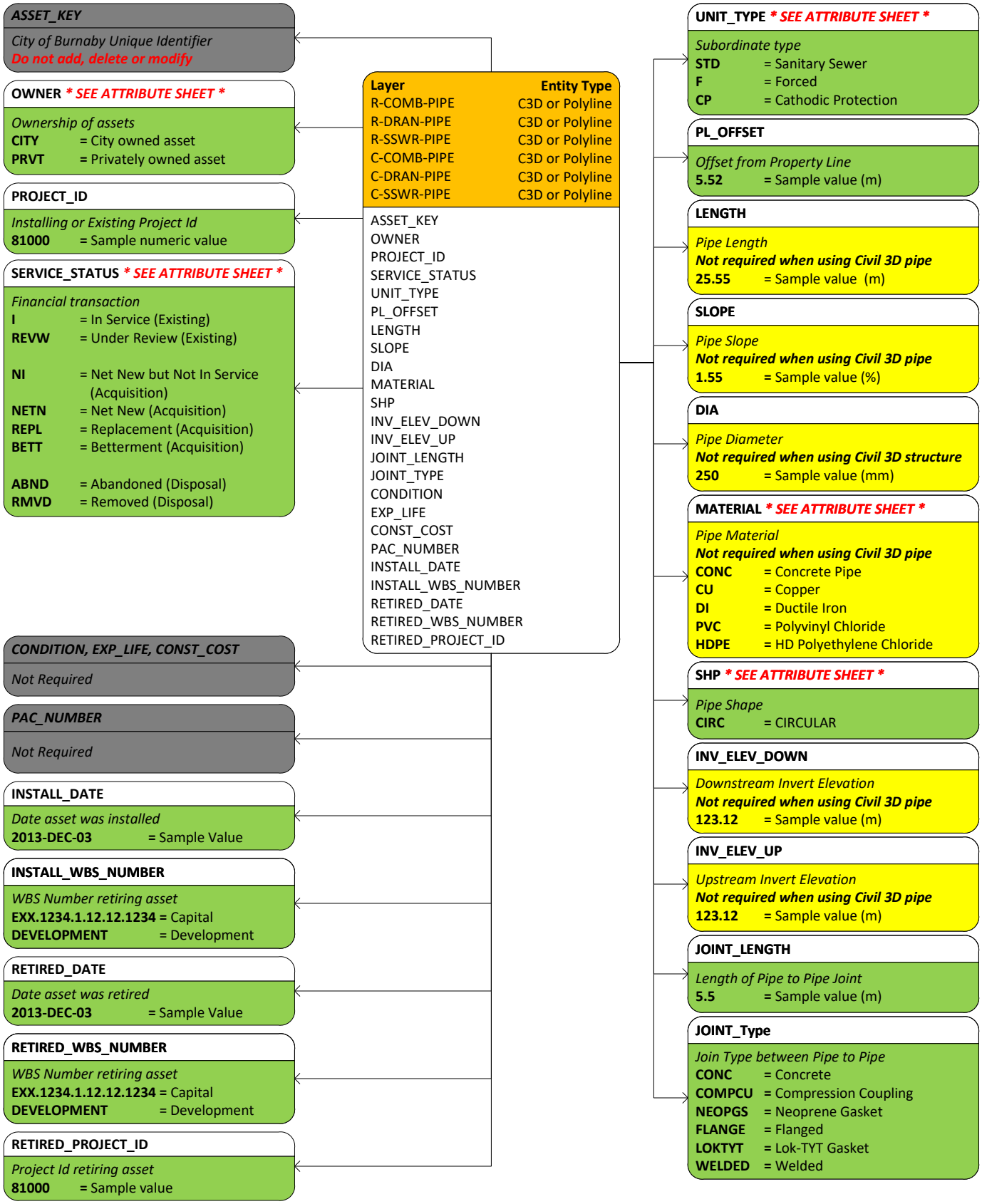
Object Data Table – **PAVE (Pavement)**

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



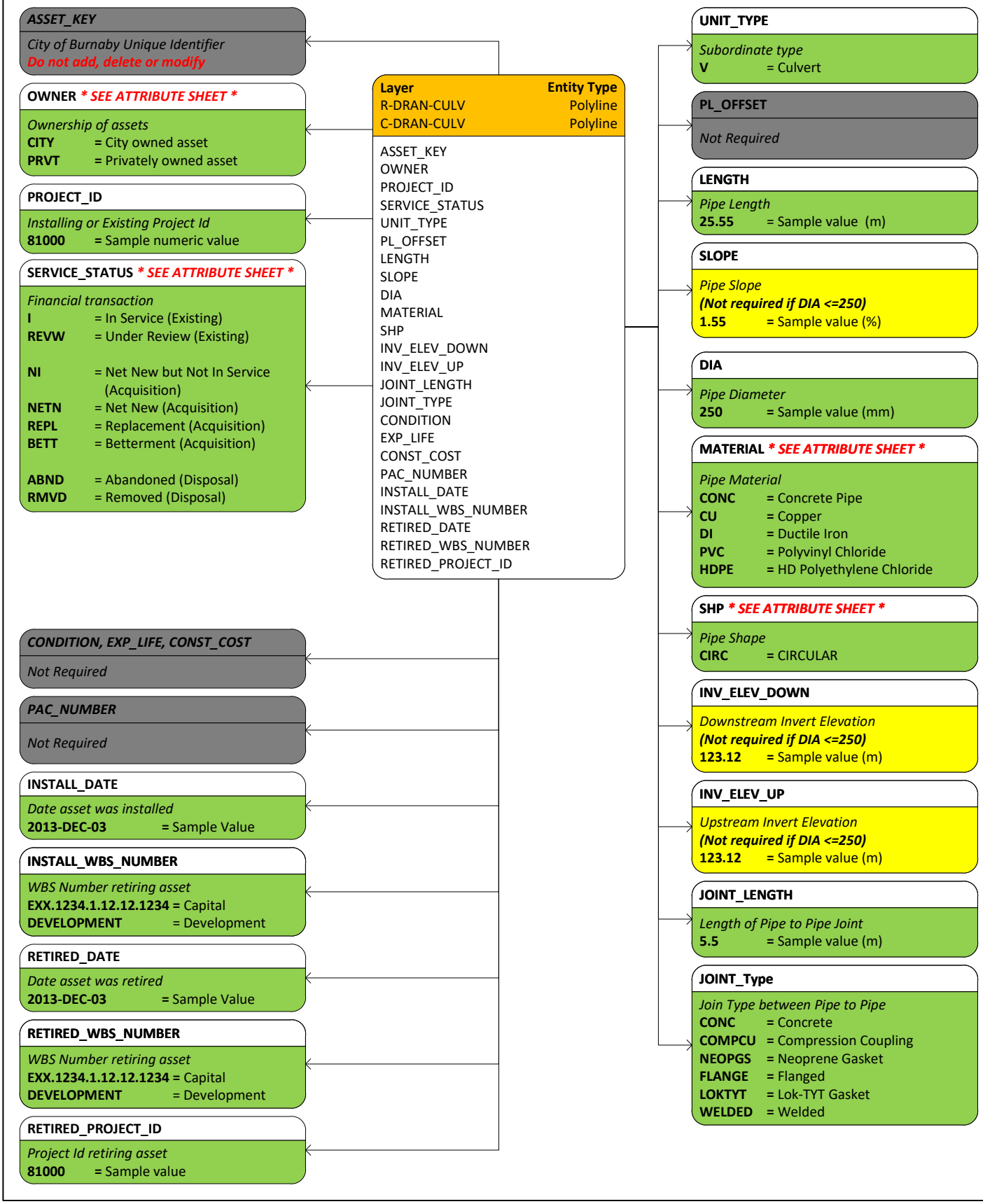
Object Data Table – **PIPE (COMB/DRAN/SSWR-PIPE)**

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



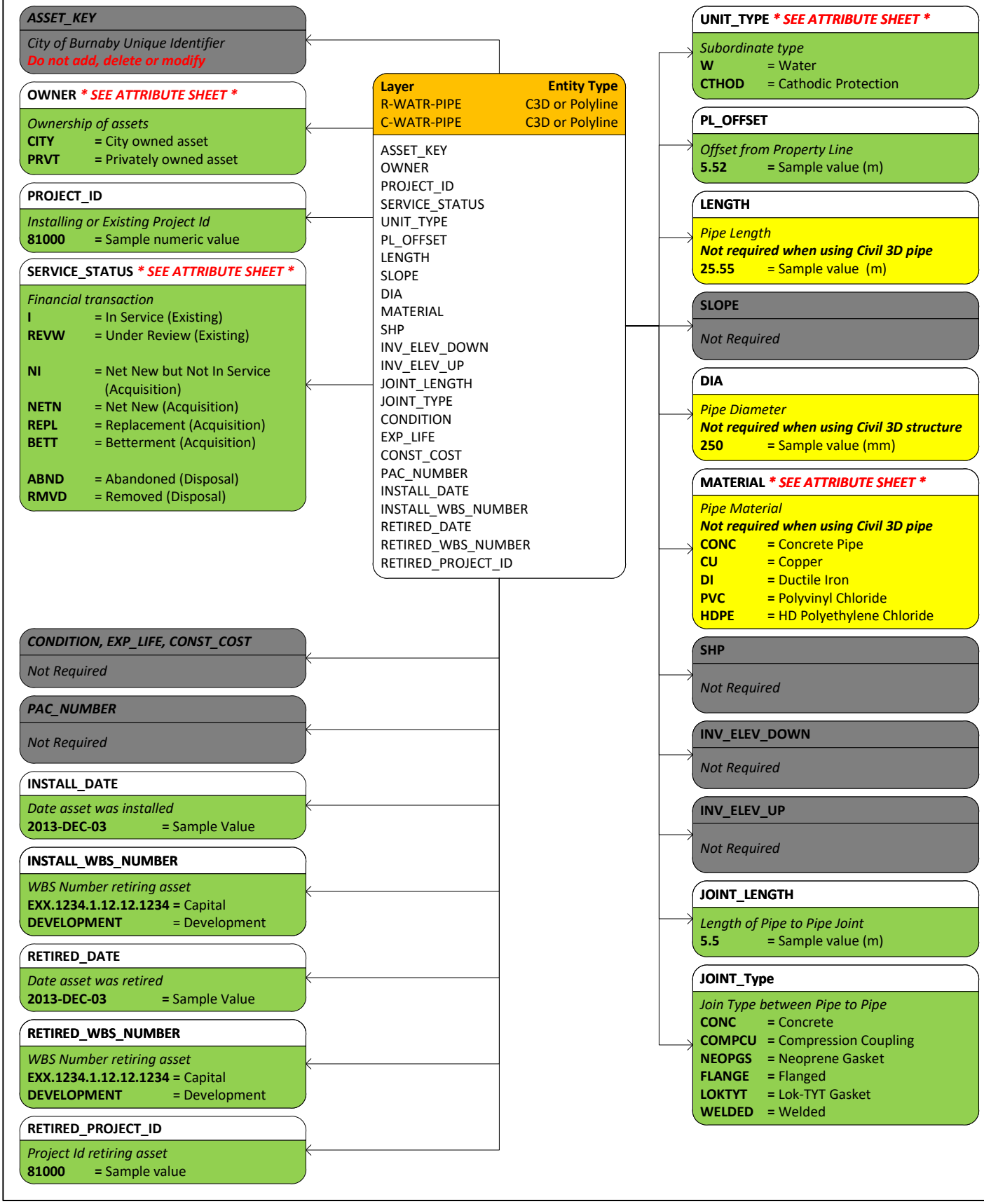
Object Data Table – **PIPE (DRAN-CULV)**

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



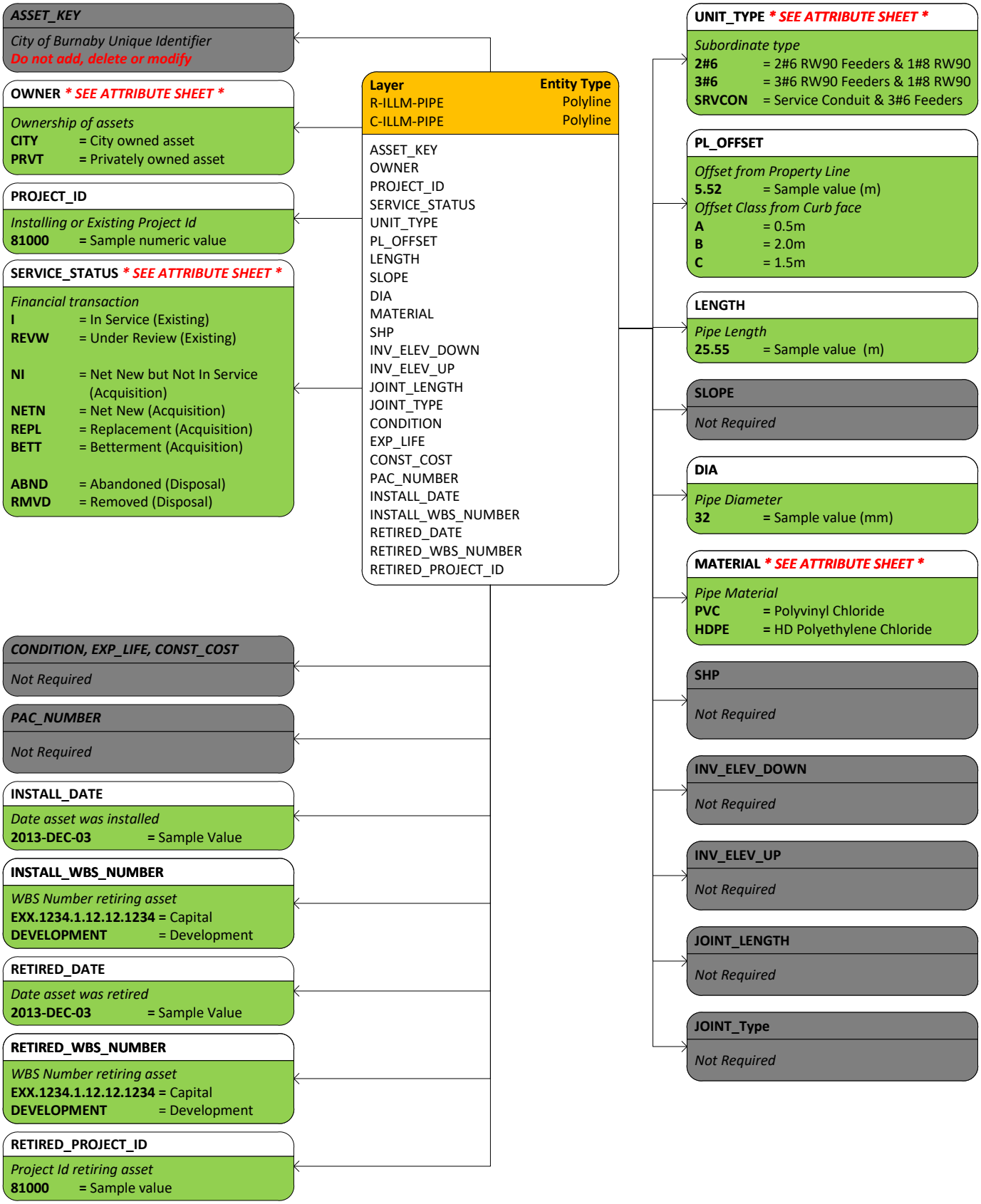
Object Data Table – **PIPE (WATR-PIPE)**

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



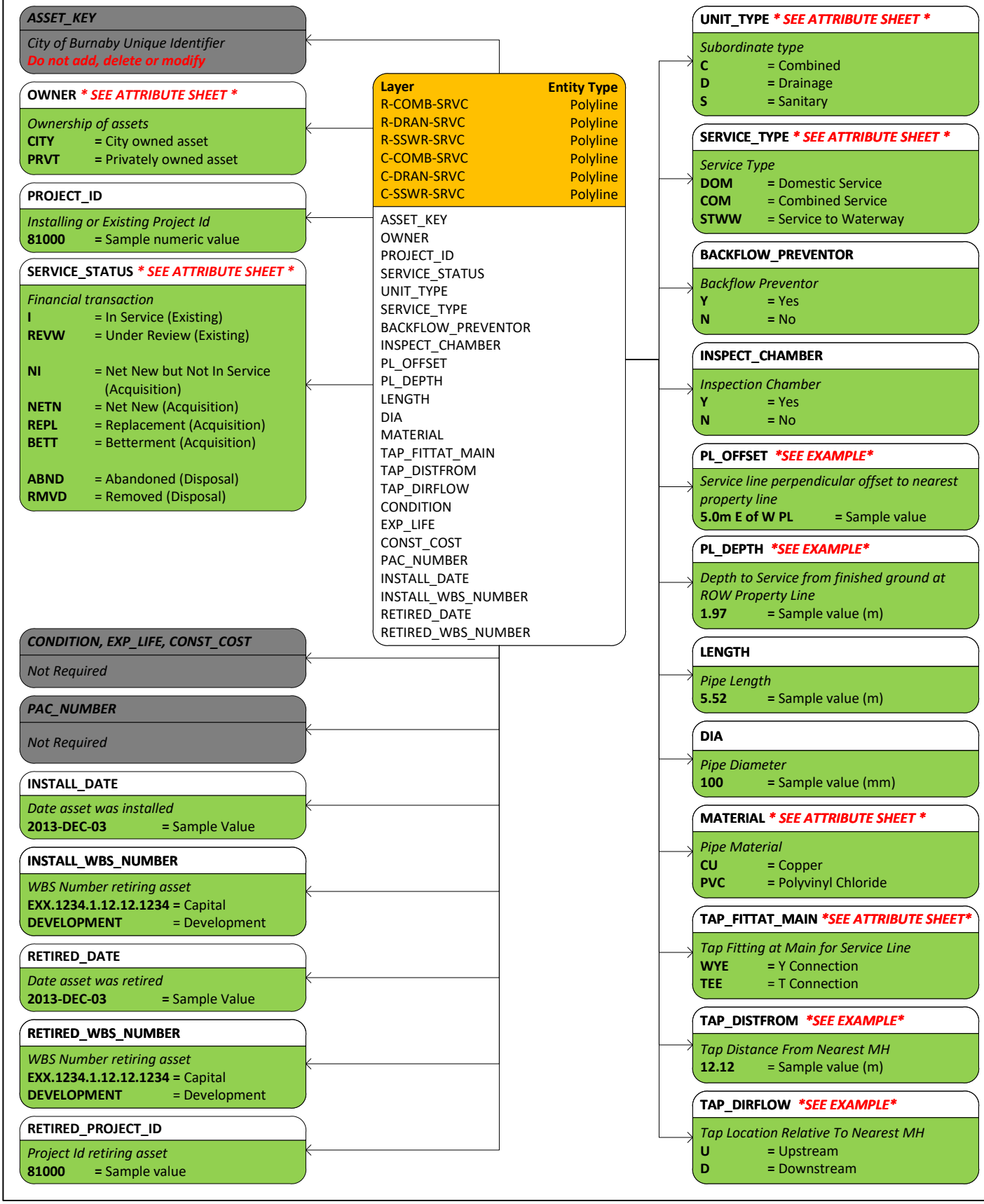
Object Data Table – **PIPE (ILLM-PIPE)**

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



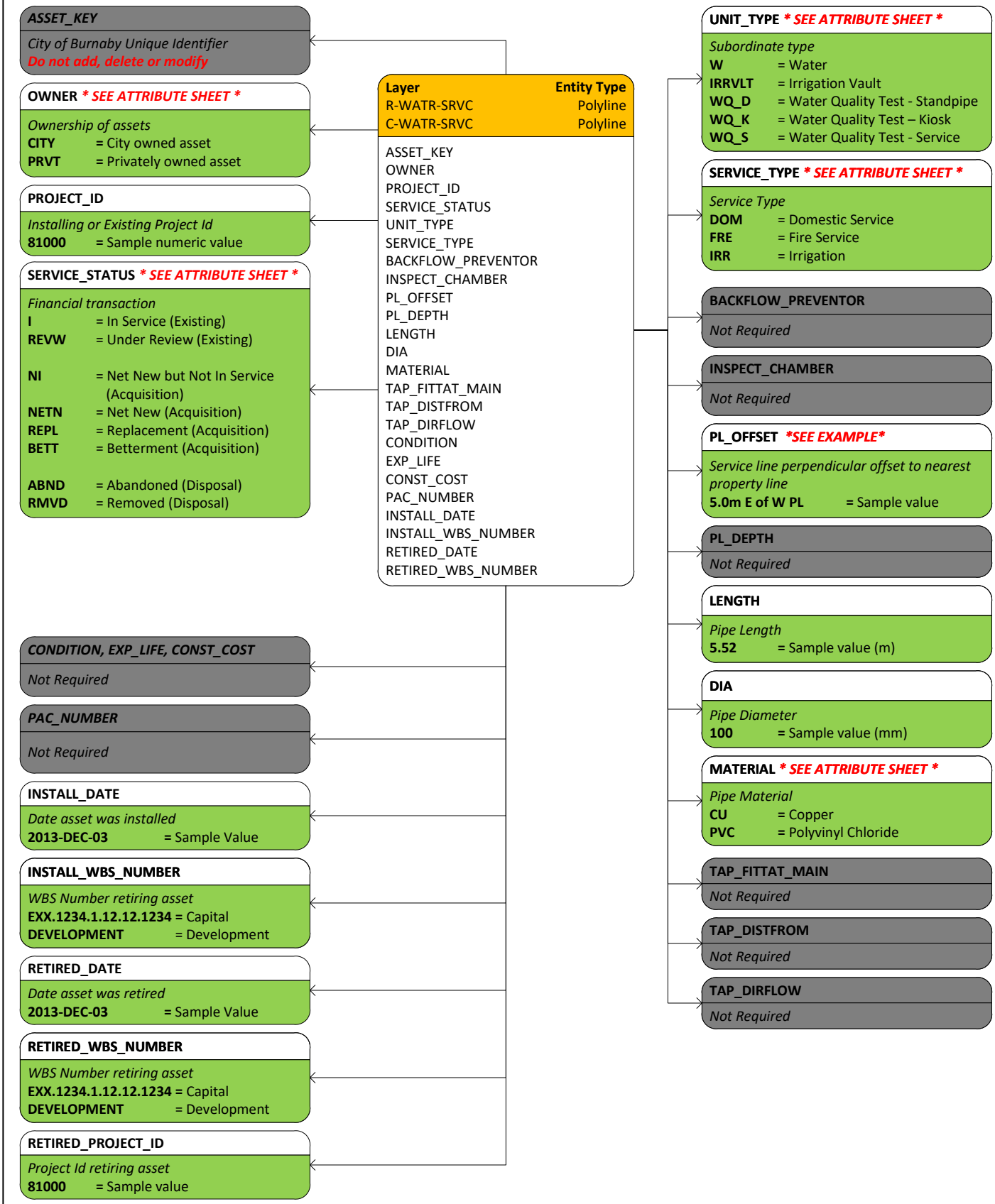
Object Data Table – **SRVC (COMB/DRAN/SSWR-SRVC)**

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



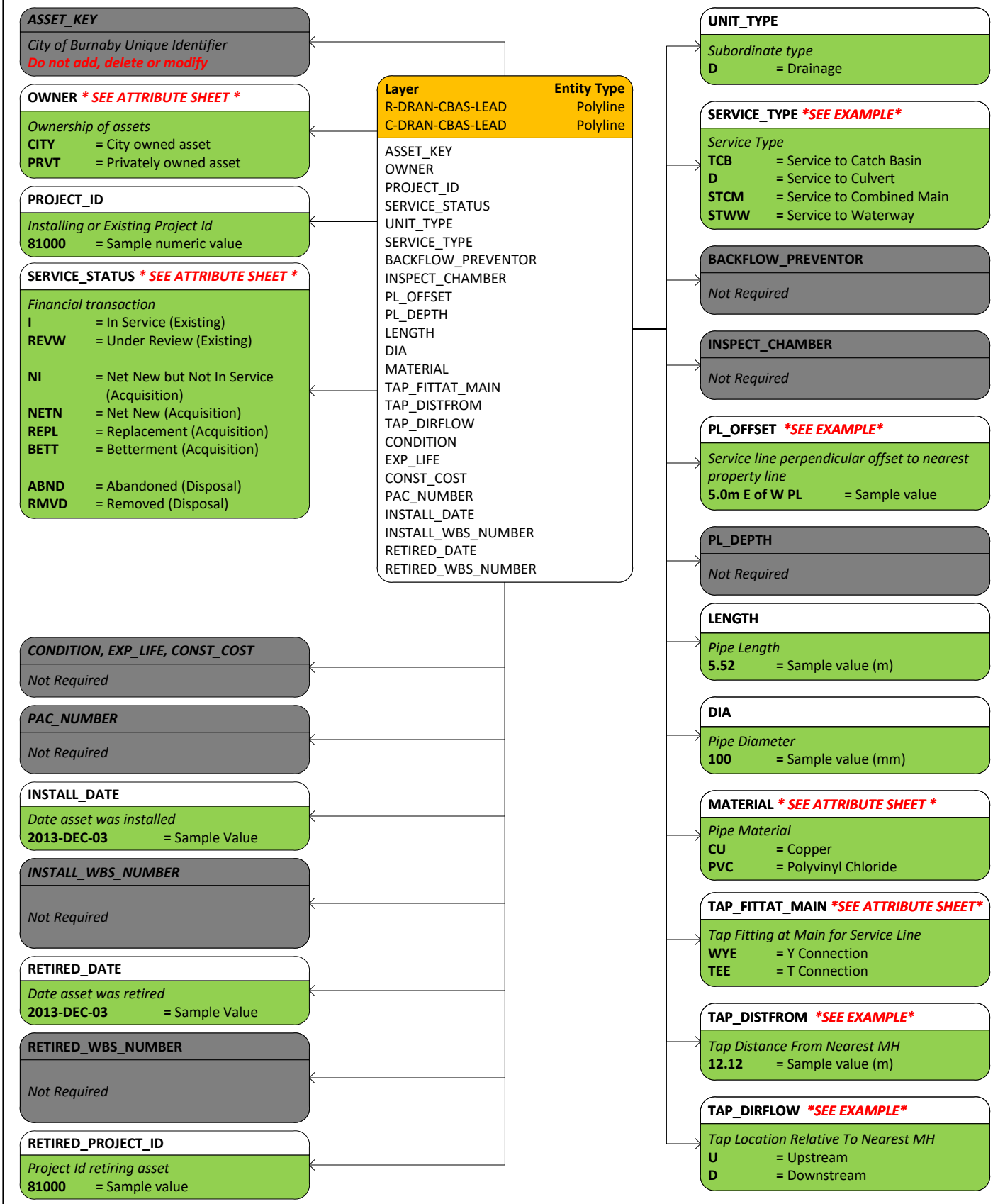
Object Data Table – **SRVC (WATR-SRVC)**

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



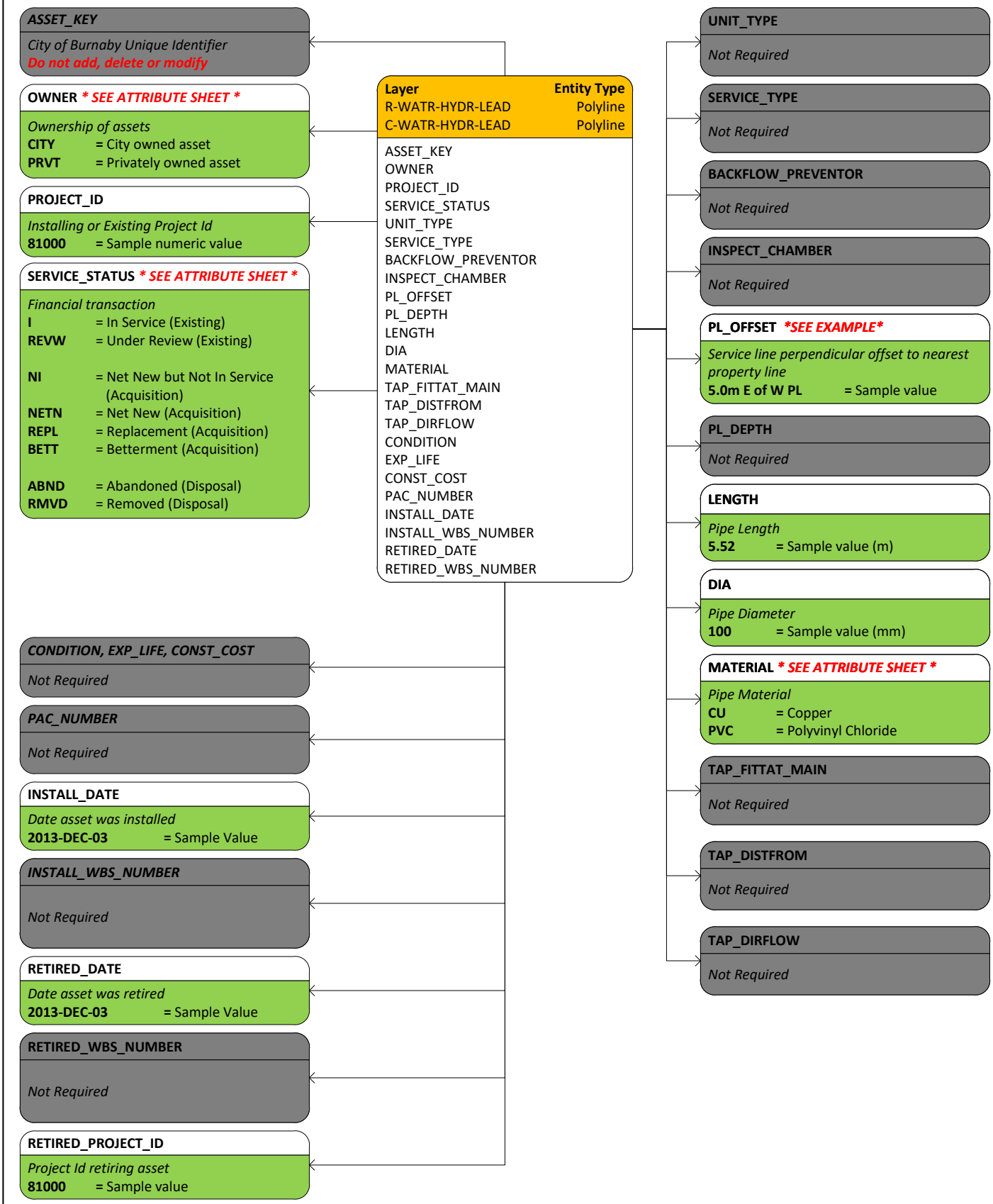
Object Data Table – **SRVC (CBAS-LEAD)**

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



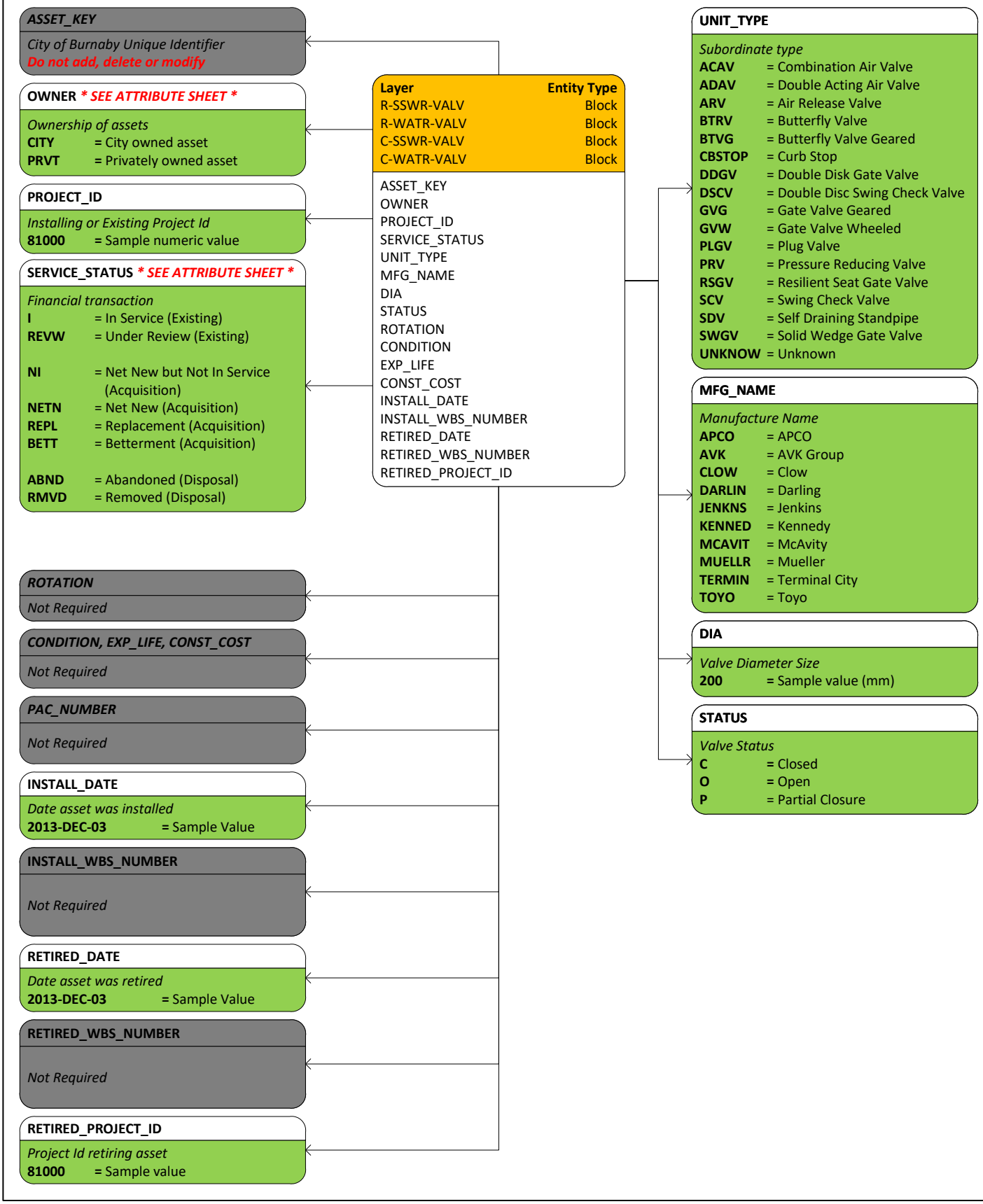
Object Data Table – **SRVC (HYDR-LEAD)**

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



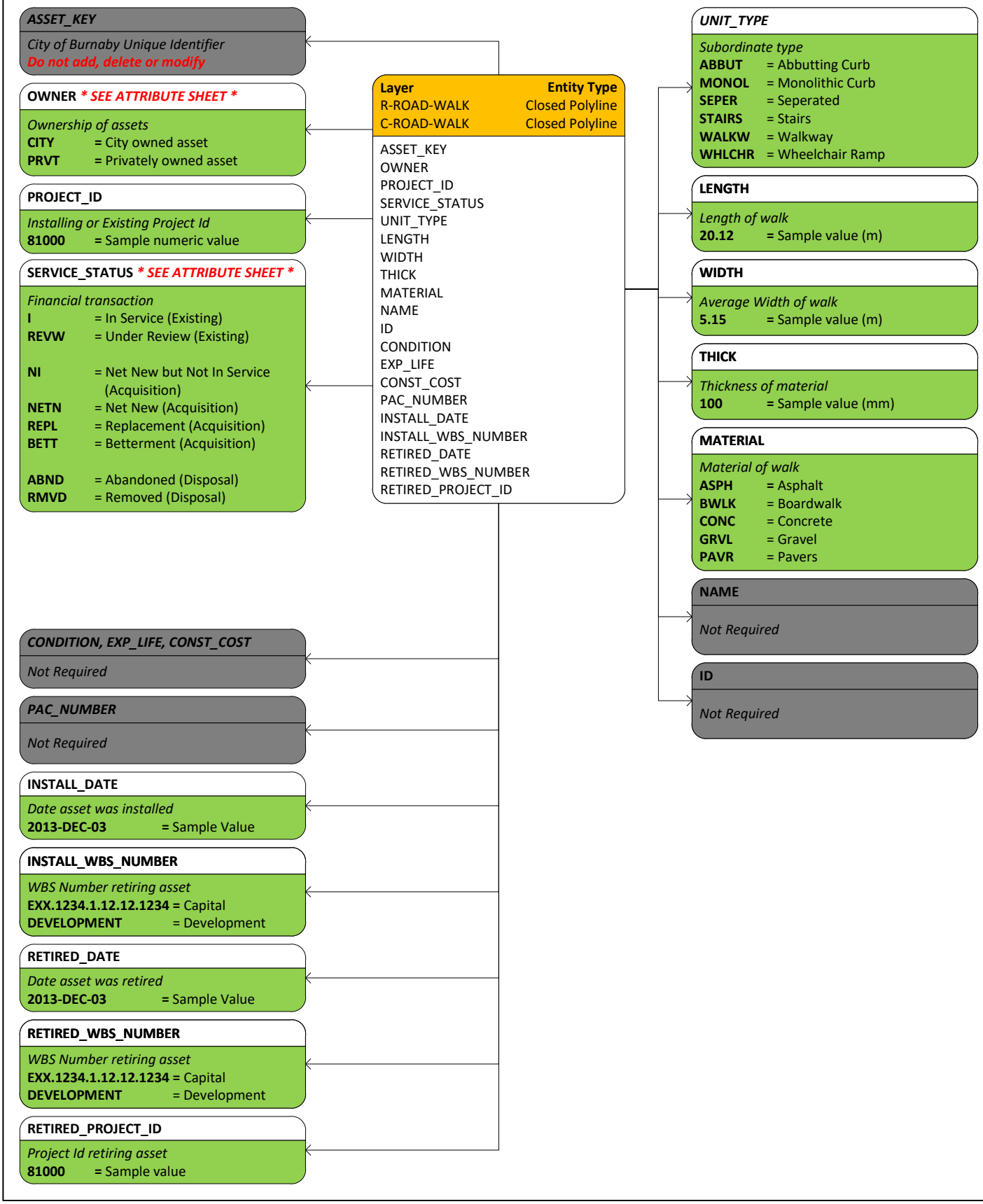
Object Data Table – **VALV (Valve)**

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



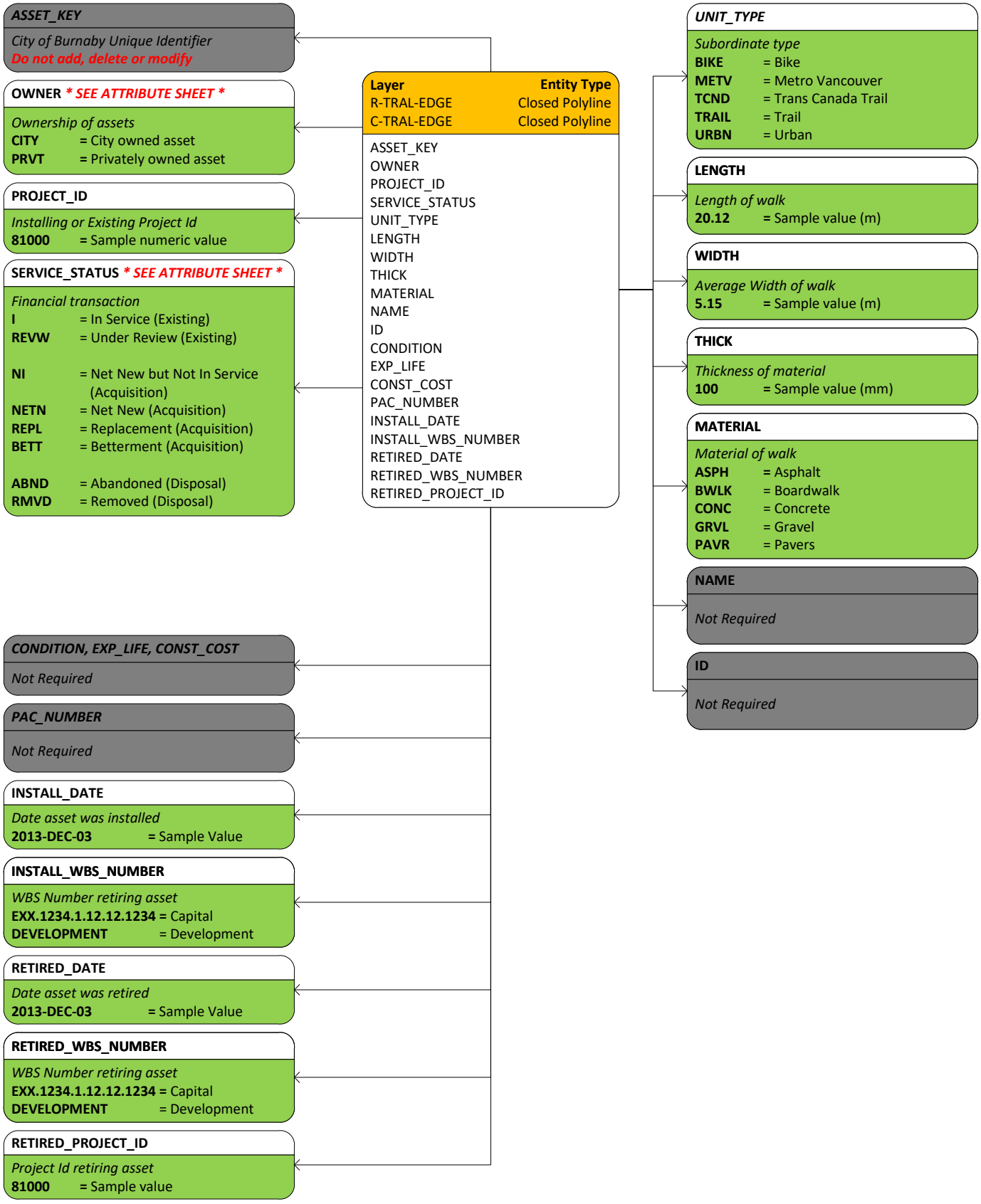
Object Data Table – **WALK (ROAD-WALK)**

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



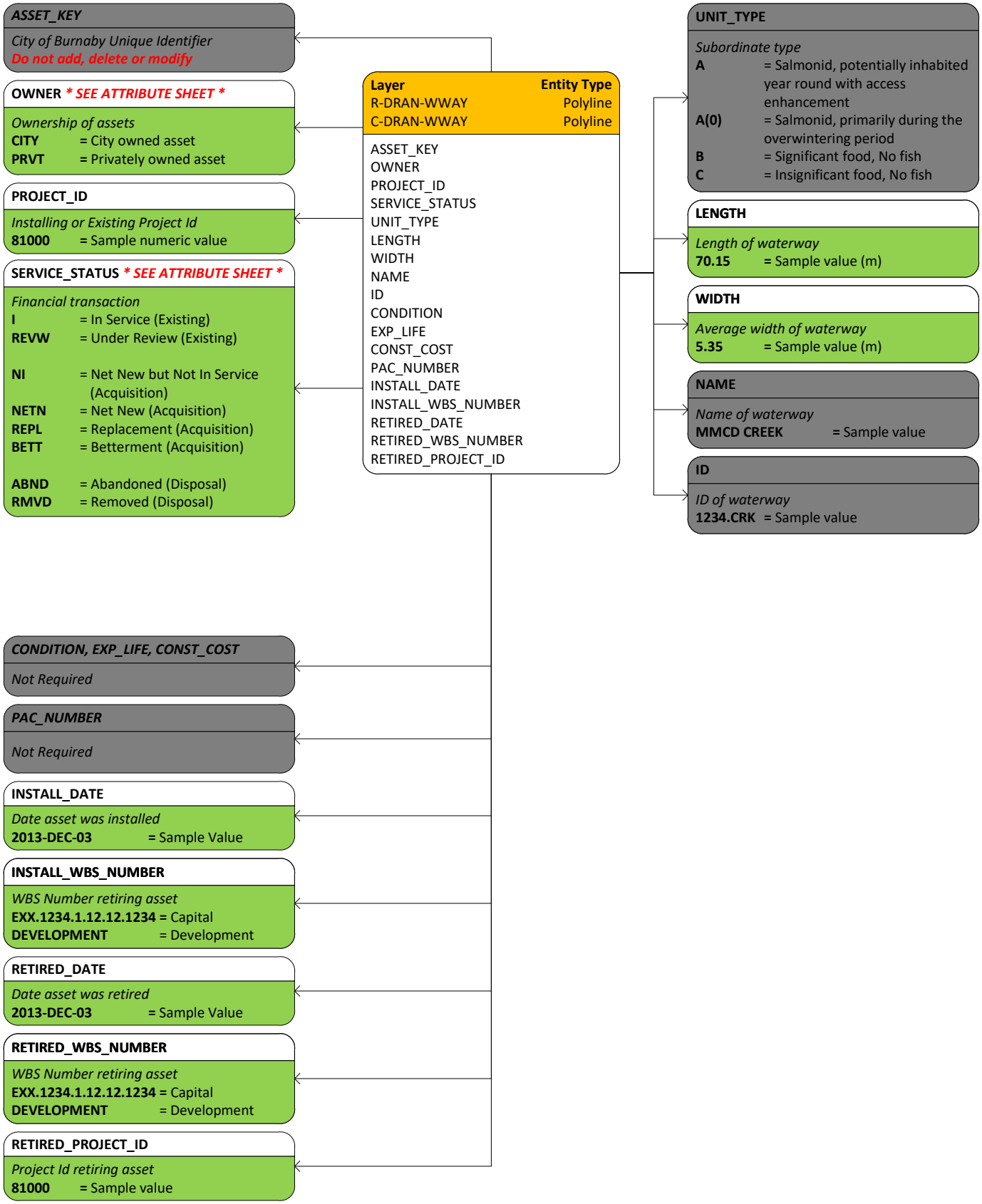
Object Data Table – **WALK (TRAIL-EDGE)**

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



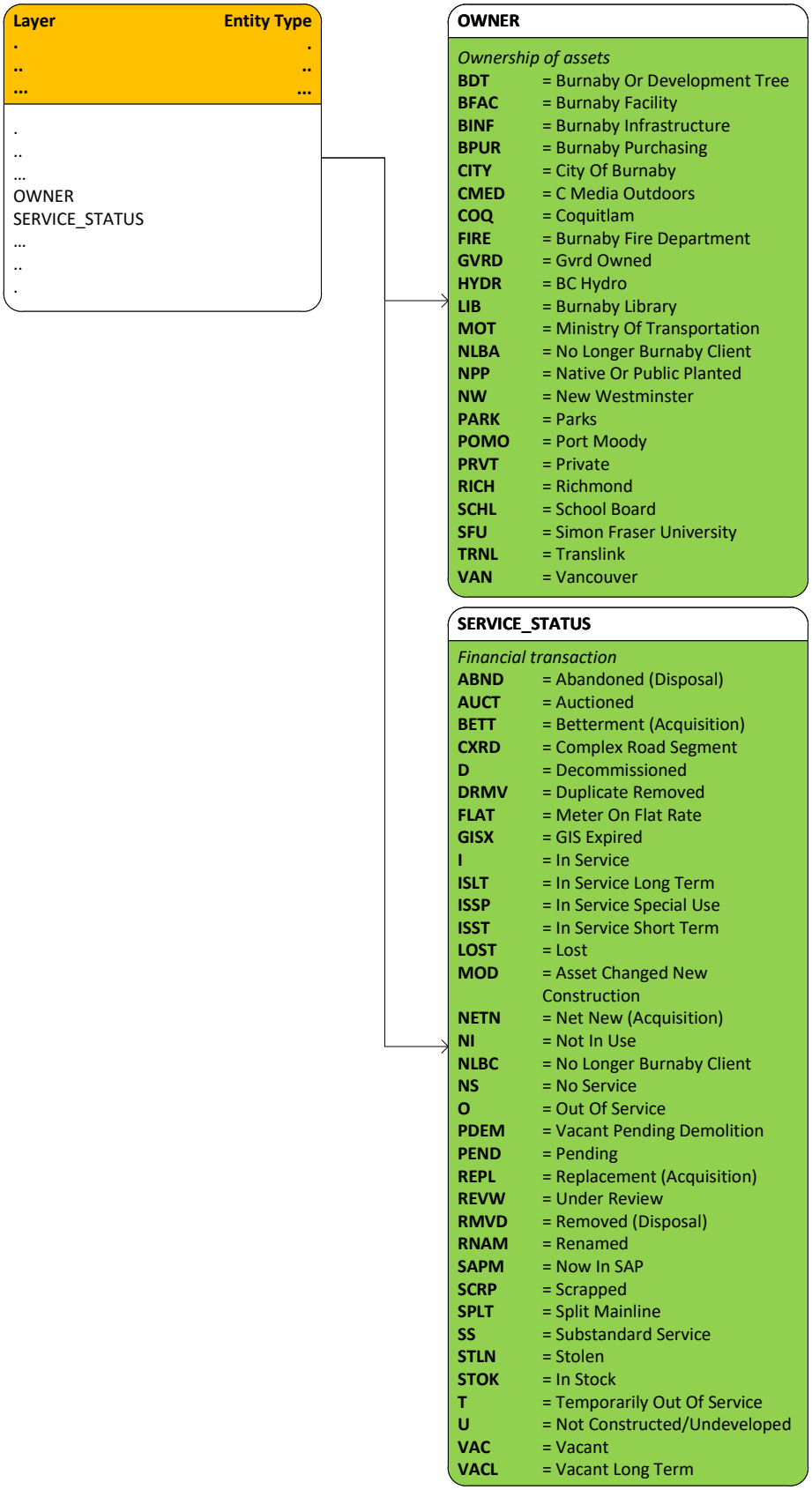
AutoCAD Layer's without Object Data

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 – (**OWNER, SERVICE_STATUS)**

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



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

Subordinate type

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

Pole Colour

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

Subordinate type

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

Pipe Shape

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

Pipe Material

ABS	= Acrylonitrile Butadiene Styr.
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

Subordinate type

CMB-D	= Combined Future Storm
CMB-S	= Combined Future Sanitary
CMB-UD	= Combined - Used For Drainage
D	= Drainage
IRRVLT	= 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

Service Type

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

Tap Fitting at Main for Service Line

HUB	=
INTO CB	=
INTO CBLEAD	=
INTO CO	=
INTO CULV	=
INTO MH	=
INTO SUMP	=
SADDLE	=
TEE	=
WYE	=

MATERIAL

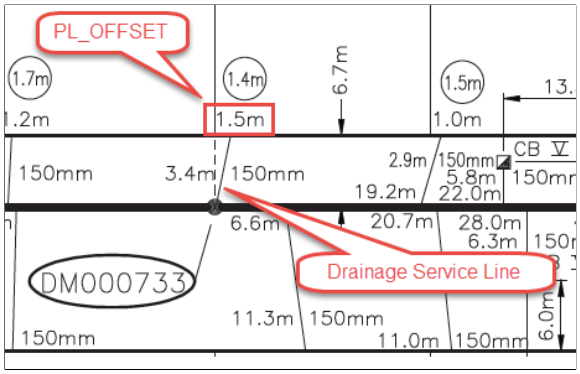
Pipe Material

ABS	= Acrylonitrile Butadiene Styr.
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

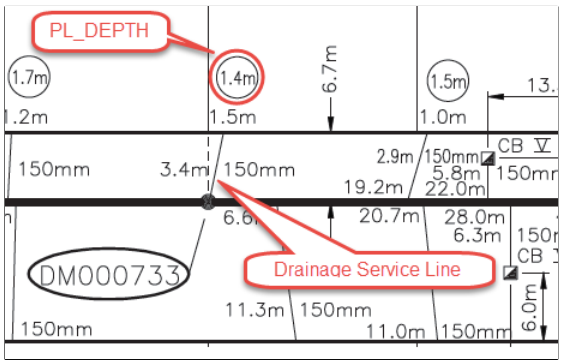
PL_OFFSET

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)