

SCHEDULE H

STANDARDS FOR THE PREPARATION OF DESIGN AND RECORD DRAWINGS

Schedule H - Standards for the Preparation of Design and Record Drawings

This is **Schedule H** of the Corporation of the Village of Valemount Subdivision and Development Servicing Bylaw No. 919, 2026.

Corporate Officer

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SCHEDULE H

STANDARDS FOR THE PREPARATION OF DESIGN AND RECORD DRAWINGS

GENERAL REQUIREMENTS

These requirements pertain to the preparation of drawings for: sanitary sewers; storm sewers; water; underground power; communications utilities; street lighting; roads; curbs and gutters; sidewalks; culverts; bridges; and other permanent structures.

Where a Village or MMCD detail drawing exists, it shall be sufficient to refer to the appropriate drawing by reference number and date of issue. Where a detail drawing does not exist, or is unsuitable for a particular case, detail drawings shall be prepared to accurately portray the various elements of the installation.

Where no standard is defined in this schedule for the preparation of a drawing to portray a particular service, structure, or other items, instructions and requirements may be obtained by discussion with the Corporation of the Village of Valemount, or its appointed representative.

Drawings shall clearly show existing and proposed locations of all utilities using offsets from property lines or boundaries of rights-of-way.

All drawings shall be signed and sealed by a Professional Engineer registered in the Province of British Columbia.

Record drawings are to be completed and approved before securities are released.

Record drawings are to be submitted within four (4) weeks of the completion of all services to be installed by the Owner. The Design Engineer shall deliver record drawings as specified in this schedule to the Approving Officer. These drawings shall be signed and sealed by the Design Engineer.

DRAFTING STANDARDS

Sheet Layout

Drawing sheet layout(s) shall conform to and include the following:

- Sheet size to be ANSI D 22 x 34 in (558.8 x 863.6 mm).
- A north arrow shall be placed close to the top right side of each plan view on the sheet.
- A title block that describes the contents of the drawing (e.g., key plan, road, etc.) and clearly indicates the location of the works by road name(s) and/or legal description.

- Drawing scale, date, revision history block and a detailed legend shall also be included on each sheet layout.

Dimensions and Units

The following conventions must be used:

- Dimensions and units must be shown in metric. No imperial units are permitted.
- All distances, elevations, and coordinates shall be given in metres to accuracy of 3 decimal places.
- Grades shall be given as a percentage to accuracy of 2 decimal places.
- Areas shall be in square metres rounded to the nearest square metre.
- All pipe sizes shall be given in millimetres as per ASTM specifications using:
 - 1 inch = 25 mm.
- Existing imperial dimensions, except for pipe sizes, are to be soft converted using the factors:
 - 1 inch = 25.4 millimetres; and,
 - 1 foot = 0.3048 metres.

Lettering

- The minimum plotted text height shall be 1.5 mm.

Scales

The following scales shall be normally used:

- Location and Key Plans: 1:1000; 1:2500; 1:5000; 1:10000
- Composite Plans: 1:500; 1:1000; 1:2500
- Plan/Profile Drawings: Horizontal 1:500 or 1:250 Vertical 1:50 or 1:25
- Cross Sections: Horizontal 1:100 Vertical 1:50
- Details: 1:100; 1:20; 1:10

Title Block

- Title block shall describe the contents of the drawing (eg. key plan, roadworks, etc.) and shall clearly indicate the location of the works by road name(s) and/or legal description.
- Design Engineers must use ANSI D 22 x 34 in sheets. Design Engineers identifications are to be placed on each drawing.

DRAWING STANDARDS

CAD Creation Guidelines

Software Guidelines

- All drawings must be in standard AutoCAD Version 2004 or later with no extensions. All drawing objects must be standard AutoCAD entities. In order for this to occur, set the AutoCAD system variable PROXYGRAPHICS to 1.
- The use of third party software for AutoCAD will be at the discretion of the Design Engineer. As these packages typically generate proprietary layers, linetypes and blocks, the Design Engineer must ensure these items conform to the specifications as outlined in this document.
- All linetypes, fonts, font styles, dimensioning styles, symbols, blocks and layers not deemed as project critical must be purged. Please note that these items may be needed for future project work.
- Drawings are to be submitted in PDF and DWG format.
- All AutoCAD drawing entities must be on modelspace for the final drawings with title block only in paperspace.

Layer Naming Convention

Naming Convention

- X-<TYPE>-DESC
 - X = Prefix
- TYPE = Types (see **Table H-1**)
- DESC = Description of the layer or layer name
- Example: E-SAN-MH = Existing Sanitary Manhole

Prefixes

The following are to be used as the prefix 'X' in the naming convention:

- E - Existing
- D - Detail
- P - Proposed
- F - Future
- T – Titleblock

Types

The following **Table H-1** shows the 'TYPE' to be used in the naming convention.

TABLE H.1: LAYER NAMING CONVENTIONS

Layer Category	Category Description
ELEC	Electrical Diagrams (Not Shallow Utilities)
GRADE	Grading
LAND	Landscaping
LGL	Legal/Cadastral
MECH	Mechanical Diagrams
PLAN	Planning
ROAD	Roads
SAN	Sanitary
STM	Storm
SWM	Stormwater Management
STRUC	Structures and Surface Features
SURV	Survey
TOPO	Topography
UTIL	Shallow Utilities
WAT	Water
NOTE: When 'T' or 'D' is the prefix, go directly to 'DESC' (i.e. T-border)	

Suffixes

Suffixes may be used to describe in more detail the layer or to further separate objects of a similar type. For example, instead of placing all sanitary sewer mains on a layer called 'E-SAN-MAIN', you could place them on layers 'E-SAN-MAIN-150-DR35' and 'E-SAN-MAIN-200-DR35'.

Standard Object Properties

All objects, colour and linetype properties should be set to "bylayer". This ensures the greatest amount of control over the entire drawing and enables changes to be made quickly and easily.

DIGITAL DRAWING DELIVERABLES

Design Drawings

Drawings submitted prior to the completion of construction shall be vectorized PDF format (i.e. not rasterized / no scans). All text in title blocks and within the drawing content shall be searchable. To achieve searchable text within AutoDesk AutoCAD software, use True

Type fonts or set the systems variable “PDFSHX” to 2. If other software is used, refer to appropriate documentation to ensure all text is searchable when plotted to PDF format.

Record Drawings

PDF Format

Record drawings shall be submitted in PDF format as specified in the section “Design Drawings” above, as well as in the digital format as described in this section.

Digital Format

Record drawings shall be delivered in a digital format, compatible with AutoDesk AutoCAD 2026. All submitted digital drawings must meet the information requirements regardless of the authoring software used. If the information cannot be successfully converted along with the drawing geometry, it shall be deemed to be not sufficiently compatible with AutoDesk AutoCAD 2026.

Coordinate System

Horizontal Datum

All drawing content shall be delivered in CSRS UTM Zone 10 N Grid coordinates or ground coordinates derived therefrom. If coordinates have been converted to ground, the drawings shall indicate the coordinate transformation tack point, scale factor, and any translation or rotation applied. In addition, one control point other than the tack point shall include the grid northing, grid easting, ground northing, and ground easting.

Vertical Datum

All elevations shall use either vertical datum CGVD1928 or CGVD2013. All drawings shall indicate which vertical datum was used.

Information Requirements

Any drawings authored with software other than AutoDesk AutoCAD software that uses a different method of indicating the information in this section shall be accompanied by a document explaining how the information requirements are met and how the information can be retrieved in AutoDesk AutoCAD 2026. If not provided, the digital submission shall be deemed to be not sufficiently compatible with AutoDesk AutoCAD 2026.

REQUIRED DRAWINGS

Cover Sheet (Title Page)

The cover sheet shall show the following information:

- Name of *Development* or *Subdivision*
- Name and address of *Owner* and *Professional Engineer*

- Site location plan of *Development* or *Subdivision*
- Legal description of subject properties
- File numbers of approving authorities (i.e., *Village* and/or Ministry).
- Complete drawing index of all sheets belonging to the set
- Other pertinent information

Key Plan(s)

Key Plans shall show the following information:

- Lot numbers, plan numbers and road names of the subject *Development* or *Subdivision* and adjoining properties
- Outline the area in each drawing and reference it by drawing number.
- General construction notes
- Other pertinent information

Building Envelope Plan (if applicable)

Building Envelope Plan shall show the following information:

- Overall plan of current phase
- Lot numbers
- Roads, curbs, gutters and sidewalks
- Rights-of-way and easements
- Offset lines from all property boundaries indicating required building setbacks
- 10 metre by 10 metre square on each parcel indicating the required minimum building envelope
- Notes that indicate the required setbacks from all property boundaries pursuant to the Zoning Bylaw
- Other pertinent information

Composite Plan(s) (as required)

Composite Plans shall show the following information:

- All existing and proposed utilities, roads, walkways and sidewalks
- All rights-of-way and easements including widths
- Control monuments with identification number
- All legal information, including bearings, dimensions, lot numbers, block numbers, legal plan numbers, and street names. All lots must be numbered.
- Show legal lot line dimensions

- All roadway dimensions including width of right of way, BOC to BOC and BOC to edge of right of way
- Area of each parcel
- Other pertinent information

Plan / Profile Drawings

Plan/Profile drawings shall show the following information.

General

The following criteria shall apply to all drawings:

- Both plan and profile stationing must be tied to a property line or road boundary.
- The profile shall be shown at true centerline length and projected below the plan in as close a horizontal relationship as possible.
- The top half of a plan/profile sheet shall show the plan view and shall show the legal layout with legal descriptions of all properties, the location of all sidewalks, catch basins, underground utilities such as sewer, water, telephone, television, power, manholes, valves, hydrants, and all survey monuments, etc.
- Drawings shall also show existing dwellings, fences, trees, hedges, unusual ground features, existing roads and driveways including the type such as asphalt, concrete or gravel.
- Plan/profile drawings for various services may be combined on one plan providing the plans are clear and readable. Plan/profile drawings may combine the following services:
 - Roads and storm drains
 - Sanitary sewers and water
 - Roads, storm drains, sanitary sewers and water may be included on one drawing depending on the complexity of the design and at the discretion of the Approving Officer.

Road Plan/Profile Drawings (may be combined with Storm Drains)

Road plan views shall show the following information:

- Drawings shall show width of road, width of shoulders, and the offset of curb from property line.
- Chainages of the B.C. and E.C. of horizontal curves shall be shown together with the delta angle, centerline radius, tangent length, and centerline arc length. Curb radii are not required if the centerline radius and road width are shown, except on curb returns at intersections and at the end of cul-de-sacs.

Road profile views shall show the following information:

- The design gutter and/or centerline grade (%)

- Vertical curve chainage and elevations of B.C., E.C. and P.I.:
 - the external value, e;
 - the length of vertical curve;
 - the chainage and elevation of the low spot of sag curves; and,
 - K value of vertical curvature (crest on sag).
- Existing ground elevation along the centerline of the proposed roadway and/or the edge of existing asphalt.

Water Plan/Profile Drawings (may be combined with Sanitary Sewer)

- Water plan views shall show the following information:
 - Offset of pipelines from property lines
 - Length and size of pipe
 - Offset of connections from property lines
 - The locations of hydrants, valves, services, end-of-main, or other appurtenances referenced to the nearest property line
 - Information on any curves or pipe deflections
 - Easements (existing and/or required)
- Water profile views shall show the following information:
 - Surface profiles (existing and design, if applicable) over proposed main
 - Length, size, grade, type, and material of pipe
 - Profiles of invert and crown of pipes
 - Location, type and invert elevation of all crossing utilities

Storm Drains and Sanitary Sewer Plan/Profile Drawings

- Storm and sanitary plan views shall show the following information:
 - Structural details of all manholes and chambers, etc. not covered by standard drawings
 - Offset of pipelines from property lines
 - The size of pipe
 - Offset of connections from property lines
 - The locations of manholes, clean-outs and services relating to property lines
 - Information on any curves or pipe deflections
 - Easements (existing and/or required)
 - Future curb and gutter lines (if applicable)
 - Manhole identification numbers

- Inverts of service connections at property line (if applicable)
- For storm drainage, features such as ditches, culverts, streams, channels, etc.
- Storm and sanitary profile views shall show the following information:
 - Surface profiles (existing and design, if applicable) over proposed main
 - Length, size, grade, type and material of pipe
 - Profiles of invert and crown of pipes
 - Location, type and invert elevation of all crossing utilities
 - Invert elevations of manholes
 - Alignment station of manholes
 - Manhole identification number
 - Rim elevations of proposed or adjusted manholes

Grading Plan(s)

- In addition to any other requirements presented, grading plans shall show the following information.

General

- Clearing and grubbing boundaries.
- Fill and excavation areas (by shading) including structural fill areas. Areas of greater than 1m of fill are to be identified and the Geotechnical Engineer is to provide comments on these areas pertaining to the suitability for building construction.
- Locations of required temporary (during construction) and permanent siltation abatement and erosion control measures.
- Pre-development contour lines at a maximum 0.5 m interval. The topographic information shall extend a minimum 30.0 m outside the development site.
- Proposed contours, slopes, grades, and spot elevations including surface slopes of roadways and other surfaces with arrows indicating the direction of flow.
- Proposed or existing elevations along the boundaries of the subdivision and design elevations at all lot corners and changes of surface slope along property boundaries.
- The minor (10-year return) storm sewer system with the flows calculated per section and the accumulated flows from all upstream sections. Provision must be made for upstream development potential where applicable. Show with directional arrows.
- The major (100-year return) system. The nature and detail of the major conveyance system is to be shown, including all major drainage flow directions, ponding areas and the extent and maximum depth of ponding anticipated for a 1 in 100-year return frequency rainfall event along with the maximum hydraulic grade line. The overall major drainage flow route is to be clearly defined and designated with prominent

arrows. Include the direction of surface flows on all surfaces and elevations of overflow points from local depressions and details of channel cross sections.

- Swale details including locations, easement requirements, slopes, cross sections and construction details for the swales.
- Easement and restrictive covenants - Requirements and locations for all easements and restrictive covenants related to drainage provisions and development restrictions associated with the drainage of the property.
- Cumulative drainage of two or more properties is to be avoided if possible and where necessary, the Design Engineer is to provide rationale for this condition as well as propose a means of directing the flows to prevent impact on adjacent lots.

Lot Grading

- All existing corner lot elevations.
- All proposed corner lot elevations.
- Minimum and Maximum floor elevations for buildings.
- Lot drainage pattern - The direction of surface drainage for each lot is to be identified, to indicate whether split drainage or through drainage is contemplated. Proposed surface drainage for abutting future development lands is to be shown to the extent that it will impact on the subject lands.
- Lot grading details - Typical detail diagrams of the various types of lot grading arrangements, which will normally conform to the figures provided in the drawings, are to be used, identifying for each lot which typical detail applies.
- The proposed building envelope with the minimum finished ground elevation adjacent to the proposed building noted for each lot.

Landscape Plan(s)

Landscape plans shall show the following information:

- Extent of proposed landscape works and services.
- Existing and proposed property information, including lot lines, easements, right of ways, legal descriptions, addresses and dimensions.
- Existing and proposed contours, slopes, grades and spot elevations for landscaped areas (if not already shown on grading plan).
- Existing and proposed buildings, structures, roads, curbs, sidewalks, walls, fences, signs, site features and other appurtenances.
- Existing vegetation proposed to be removed, relocated or retained.
- Areas of proposed preservation, naturalization, restoration, lawn and landscaping, including soil types, depths and amendments.
- Proposed plant species name (botanical and common), size and planting condition.

- Existing and proposed irrigation systems (if required).
- Construction details and specifications or other pertinent information as required.

Integrated Stormwater Management Plan (ISMP)

In addition to any other requirements presented, Integrated Stormwater Management Plans shall generally show the following information:

- Site and surrounding area (400 m minimum outside development) showing roads and major features. A small location plan of the watershed is also to be included.
- Major contours at 1.0 m and minor contours at 0.2 m elevation intervals (existing and proposed).
- Existing and proposed major surface flow paths.
- Detention pond details, if applicable.
- Area, in hectares, of development and the total area of drainage basin.
- Directional arrows of flow within the site and on surrounding areas.
- Sub-catchment boundaries, coefficients and areas.
- Pipe system including size, grade, and minor and major flows (a table may be utilized).
- The subject development is to be highlighted.
- Other pertinent information (see Schedule F).

Street Lighting Plan(s)

A plan view of the street lighting shall be provided. General notes on the plan shall reference municipal standards, specifications and appropriate design criteria.

Street Sign, Paint Marking, and Traffic Control Device Plans

A drawing identifying signs, markings, and required control devices shall be provided. Detailed drawings may be required for traffic control devices. These plans can be added to road plan drawings if the plan is clear and readable.

Traffic Management Plan(s)

Detail routes for construction traffic and traffic controls for traffic on existing roads affected by construction may be required if requested by the Approving Officer.

Road Cross Section Plan(s)

Shall be scaled at 1:100 horizontal and 1:50 vertical and shall note the existing ground elevation, the proposed elevations of the road centreline, the curb and gutter (or road edge) and property lines. Cross-sections are required at critical locations as required by the Approving Officer.

Construction Details

Show all proposals for construction which are not covered or specifically detailed in the *Village's* standards. Where there is a Village or MMCD standard, it is expected to refer to the detail drawing number.

Electrical and Communication Utilities

The Design Engineer shall obtain and submit engineering drawings from each utility drawing showing detailed design and construction requirements for any necessary Works and Services. The Design Engineer shall assemble all drawings and superimpose them onto an overall subdivision compilation drawing(s) to ensure that there are no conflicts between any of the municipal services and the shallow utilities both underground and above ground.

CERTIFICATION REPORTS

Prior to acceptance of the Works, the Design Engineer shall submit 3 bound copies of System Certification Reports to the Approving Officer. Certification reports shall fully indicate the as-constructed aspects of each system as well as all required operation and maintenance information. As a minimum, reports shall include the following:

- Complete set of record drawings at the same scale and in the same format as the construction drawings;
- As-constructed AutoCAD files saved in the format as requested by the Approving Officer;
- Copies of all test reports and results;
- All shop drawings;
- A list of contractors and major subcontractors by work item; and
- Operation and Maintenance Manuals.

OPERATION AND MAINTENANCE MANUALS

Operation and Maintenance Manuals shall contain:

- Cover page and table of contents;
- As-constructed shop drawings;
- Equipment layout drawings;
- Electrical, control, and alarm wiring diagrams;
- Operating instructions for all equipment;
- Maintenance instructions for all equipment, including frequency of maintenance tasks;
- Equipment data sheets;
- Certified head/capacity curves for pumps;
- Equipment part lists; and

- Emergency operating procedures.

The maintenance manuals shall be hardbacked bound documents with the name of the facility embossed on the cover. Each section of the manual shall be identified by plastic covered tabbed dividers, with the section name identified on the tab.

A digital version of Operation and Maintenance manuals shall also be provided in a PDF format, compiled to include all items above in a single document. Each section shall have a bookmark link.

SUBMISSIONS

Design Submissions

Three (3) full size paper copies of all design drawings are required for design submissions. The Owner shall also submit to the Village a complete set of electronic design drawings of the subdivision or development in a digital hard copy in PDF format in accordance with this Schedule.

Record Drawings

Record drawings shall be submitted prior to final acceptance of the work. Record drawings shall be delivered in both paper and electronic format(s) to the Village. Record drawings shall include all drawings in the approved design submission or as requested by the Approving Officer.

The Owner shall submit to the Village a complete set of electronic drawings of the subdivision or development in a digital hard copy in Adobe PDF format in accordance with this Schedule.

In conjunction with the record drawings, service connection records shall be provided for each lot. The service connection records shall be submitted in PDF format, 8.5" x 11" letter size, using the Village's service connection record template form. The service connection record shall indicate the following record information:

- Lot, block and plan number
- Civic address
- Water and Sanitary service invert and depth at main and at property line
- Water and sanitary service and main sizes, materials and dates of install (both in the Village boulevard and on-lot)
- Date service connection record was created (date plotted)
- A plan drawing (location map) showing:
 - Lot relative to road and other lots, clearly identified
 - North arrow
 - Lot services and all other underground services maintained by the Village (water, sanitary sewer, storm sewer and street lighting)

- Any lot features like swales, easements or right of ways
- Perpendicular distance from the closest adjacent property line to the water shutoff
- Lot grading information

Digital Hard Copies

A digital hard copy is any digital file that is reproducible without the ability to modify the drawing contents or appearance.

- PDF is the preferred file type.
- Drawing sets submitted as a digital hard copy shall be electronically sealed by the Design Engineer. The Design Engineer shall be registered in the Province of British Columbia.

Device/Document Settings for Plotting PDF Format

- Ensure all text is legible and the shading and hatching ordered so as not to block or hide other linework and/or text.
- The following settings shall be used when plotting the drawings to PDF:
 - Paper size to be ANSI D 22" x 34"
 - Layout to be "landscape"
 - Graphic print quality to be no less than 600 dpi

ABBREVIATIONS

Technical Legend

ABANDONED
ABBREVIATION
ACRE
ASBESTOS CONCRETE
ASPHALT
ASPHALT WALK
AIR VALVE
AVENUE
AVERAGE
BACK OF CURB
BACK OF WALK
BASEMENT
BEARING
BEDDING
BEGINNING OF CURVE

Plan Profile Abbreviations

ABAND.
ABBREV.
AC.
A.C.
ASPH.
ASPH.W.
A.V.
AVE.
AVG.
B.O.C.
B.O.W. or B.W.
BSMT
BRG.
BED.
B.C.

Technical Legend

BENCH MARK
BETWEEN
BLOCK
BOTTOM
BOTTOM OF PIPE
BOULEVARD
BOUNDARY
BUILDING
BEGINNING OF VERTICAL CURVE
CABLE TELEVISION
CALCULATED
CANADIAN NATIONAL RAILWAY
CANADIAN PACIFIC RAILWAY
CANADIAN STANDARDS
ASSOCIATION
CAPACITY
CAST IRON
CATCH BASIN
CATHODIC PROTECTION
CENTIMETER
CENTRE LINE
CHECKED
CHECK VALVE
CHORD
CIRCLE
CLASS
CLEAN OUT
CONCRETE
CONCRETE WALK
CONDUIT
CONSTRUCTION/CONSTRUCT
CONTOUR
CONTRACTOR
COPPER
CORNER
CORRUGATED METAL PIPE
COUPLING
COURT
CREEK

Plan Profile Abbreviations

B.M.
BTWN
BLK
BTM
B.O.P.
BLVD.
BDY
BLDG
B.V.C.
T.V.
CALC
C.N.R.
C.P.R.
C.S.A.
CAP
C.I.
C.B.
C.P.
CM

CHKD
C.V.
CH
CIR
CL
C.O.
CONC
C.W.
COND
CONSTR or CONST
CONT
CONTR
CU
COR.
C.M.P.
CPLG
CT
CR

Technical Legend

CRESCENT
CROSSFALL
CROSS SECTION
CULVERT
CURB AND GUTTER
DEGREE
DELTA
DEPARTMENT
DIAMETER
DIMENSION
DISTANCE
DITCH
DOUBLE
DRAWING
DRIVEWAY
DRY WELL
DRIVE
DUCTILE IRON
DWELLING
EASEMENT
EAST
EDGE OF MEDIAN
EDGE OF PAVEMENT
EDGE OF SHOULDER
ELECTRIC
ELECTRIC LIGHT
ELEVATION
END OF CURVE
END OF VERTICAL CURVE
ESTIMATE
EXISTING
FACE OF CURB
(Rolled, Standard, Asphalt)
FACE OF WALK
FEET OR FOOT
FLANGE
FLANGED OUTLET
FLOOR
FOOTING

Plan Profile Abbreviations

CRES
X-FALL
X-SECTION
CULV
C & G
DEG or °

DEPT
DIA. or
DIM
DIST
D
DBL
DWG
DWY
D.W.
DR
DI
DWLG
ESMT
E
E.M.
E.P.
E.S.
ELEC
E.L.
ELEV
E.C.
E.V.C.
EST.
EXIST
F.C. (Roll F.C., Std. F.C., Asph.
F.C.)
F.W.
FT
FLG
F/O
FLR
FTG

Technical Legend

FORCE MAIN
FOUND
GALVANIZED
GARAGE
GARDEN
GRAVEL
GRADE
GUARD RAIL
HECTARE
HECTOMETRE
HEIGHT
HIGHWAY
HORIZONTAL
HORIZONTAL CURVE
HOSPITAL
HYDRANT
INCH
INLET CHAMBER
INSIDE DIAMETER
INTERSECTION
INVERT
IRON PIN, FOUND IRON PIN
INSULATE
INTAKE STRUCTURE
JOINT
KILOGRAM
KILOMETRES
KILOMETRES PER HOUR
LATERAL
LEAD
LENGTH
LENGTH OF CURVE
LIFT STATION
LIGHT STANDARD
LIP OF GUTTER
MAIN VALVE
MANHOLE
MANHOLE RIM
MAXIMUM

Plan Profile Abbreviations

F.M.
FD
GALV
GAR
GDN
GRAV
GR
GDR
HA
HM
HT
HWY
HOR
HOR
HOSP
HYD
IN or "
I.C.
I.D.
INT
INV
I.P., F.I.P.
INS
I.S.
JT
KG
KM
KM/H
LAT
L
LGTH
L.C.
L.STA
L.S.
L.G.
M.V.
M.H.
M.H.R.
MAX

Technical Legend

MECHANICAL JOINT
METRE
METRE CHAMBER
MEDIAN
MILES PER HOUR
MILLIMETRE
MINIMUM
MINISTRY OF TRANSPORT
MONOLITHIC SIDEWALK
MONUMENT
MORTAR JOINT
MINUTES
NORTH
NORTH SIDE
NOT TO SCALE
NUMBER
OBLITERATED
ON CENTRE
ORIGINAL GROUND
OPPOSITE FACE
OUTLET CHAMBER
OUTSIDE DIAMETER
PARALLEL
PARKWAY
PAVEMENT
PER
PERCENT
PHASE
PIPE
PLACE
PLAN PROFILE
PLUG
POINT
POINT ON CURVE
POINT ON COMPOUND CURVE
POINT ON TANGENT
POINT ON INTERSECTION
POUNDS
POUNDS PER SQUARE INCH

Plan Profile Abbreviations

M.J.
m
M.C.
M. or MED
M.P.H.
mm
min
M.O.T.
MONO
MON
M.J.
MIN or '
N
N/S
N.T.S.
NO. or #
OBL
O.C. or O/C
O.G.
O.F.
O.C.
O.D.
PAR
PKWY
PVMT
/
%
PH
P
PL
P.P.
PLUG
PT
P.C.
P.C.C.
P.T.
P.I.
lbs
P.S.I.

Technical Legend

POWER POLES
PRESSURE REDUCING VALVE
PROPERTY LINE
PROPOSED
PUMP STATION
QUANTITY
RADIUS
RAILWAY
RAISED FACE
RECTIFIER
REDUCER
REFERENCE
REGISTERED PLAN
REINFORCED
RESTORED
REPLACEMENT
RESERVOIR
REVISION
RIGHT
ROAD
ROUND
RIGHT OF WAY
SANITARY
SECOND
SECTION
SERVICE
SERVICE ROAD
SET IN FIELD
SIDEWALK PROFILE
SLOPE
SOUTH
SOUTH SIDE
SPECIFICATION
SPIRAL TO CURVE
SQUARE
STANDARD
STATION
STEEL
STORM

Plan Profile Abbreviations

P-P
P.R.V.
P.L.
PROP
P.S.
QTY
RAD OR R
RWY
R.F.
RECT
RED
REF
R.P.
REIN
RSTD
REPL
RES
REV
RT
RD

R/W or R.O.W.
SAN
SEC
SECT
SERV
SERV.RD.
S.I.F.
S.W.P.
SLP
S
S/S
SPEC
S.C.
SQ OR
STD
STA
STL
STM

Technical Legend

STREET
STRUCTURE
SUPPLY
SWALE
SYMBOL
TANGENT
TANGENT TO SPIRAL
TECHNICAL
TEMPERATURE
TEMPORARY
TEST HOLE
TONGUE AND GROOVE
TOWNSHIP
TOP OF CURVE
TOP OF PIPE
TRAFFIC CONTROL
TRAIL
TRANSFORMER
TRANSITE
TYPICAL
UNDERGROUND
UNDER CONSTRUCTION
VELOCITY
VERTICAL
VERTICAL CURVE
VOLUME
WALL THICKNESS
WASH OUT
WATER
WEST
WEST SIDE
WEEPING TILE
WEIGHT
WIDTH
WITNESS PIN
WOODEN POST
YARD

Plan Profile Abbreviations

ST
STR
SUP
SWL
SYM
TAN
T.S.
TECH
TEMP
TEMPO
T.H.
T.G.
T.W.P.
T.O.C.
T.O.P.
T.C.
TR.
TRANSF
TRANS
TYP
U.G. or U/G/
U/C
VEL
VERT
V.C.
VOL
W.T.
W/O
W
West
W/S
W.TILE
Wt
WDTH
W.PIN
W.P.
YD2