



City of Greater Sudbury

Supplemental Drawings

To the Ontario Provincial Standard Drawings

**City of Greater Sudbury
Standard Drawings**

Table of Contents

- **Greater Sudbury Standard Drawings [GSSD]**
- **Ontario Provincial Standards Drawings [OPSD]**

DIVISION 100	Abbreviations and Signage
DIVISION 200	Grading
DIVISION 300	Entrances
DIVISION 400	Frames and Grates
DIVISION 500	Paving
DIVISION 600	Curbs and Gutters
DIVISION 700	Catch Basins and Maintenance Holes
DIVISION 800	Culverts and Drains
DIVISION 900	Fencing, Guide Rails
DIVISION 1000	Sanitary Sewer
DIVISION 1100	Watermains
DIVISION 1200	Miscellaneous
DIVISION 3000	N/A
DIVISION 4000	N/A

Notes:

1. **N/A - Denotes Non Applicable Divisions**
2. **OPSD's "not listed" require City approval prior to their use**

Index

OPSD #	GSSD #	Rev #	Description	GSS CAD/File Name
Division 100 – Abbreviations and Signage				
The table below shows Division 100 – Abbreviations and Signage.				
–	125.040	–	Standard Sign “ Private Road - Not for Public Use ”	A1921
–	125.050	–	Standard Sign “ Future Footpath ”	A1922
–	126.011	–	Rainfall Intensity Duration Curves	A1985
–	127.000	–	Typical Sign Mounting	A2135
–	128.000	–	Standard Sidewalk Stamp	A2200
Division 200 – Grading				
The table below shows Division 200 – Grading.				
–	206.010	–	Standard Road Section - Rural	A1952
	210.010	–	Tangent Shoulders - Rural	A2655
	210.020	–	Superelevated Shoulders - Rural	A2654
	217.051	–	Maintenance Hole Access Entrance at Ditches	A1949
–	218.010	–	Sodding of Side Slopes	A2019
–	225.010	1	Standard Road Section - Urban	A1924
–	225.030	–	Utility Services - Location Plan	A1923
–	225.040	2	Utility Services - Location Section	A1986
Division 300 – Entrances				
The table below shows Division 300 – Entrances.				
–	303.020	–	Typical Urban Private Entrance with Boulevard and Sidewalk	A1925
–	310.010	7	Concrete Sidewalk	A1929
–	310.015	3	Monolithic Curb and Concrete Sidewalk	A1945
–	310.018	1	Monolithic Concrete Sidewalk and Retaining Wall	A1931
–	310.030	–	Concrete Sidewalk Ramps at Signalized Intersections	A2490

Index

OPSD #	GSSD #	Rev #	Description	GSS CAD/File Name
-----------	-----------	----------	-------------	-------------------------

The table below shows Division 300 – Entrances continued.

–	310.031	–	Concrete Sidewalk Ramps at Signalized Intersections with Intersecting Crosswalks	A2491
–	310.033	–	Concrete Sidewalk Ramps at Unsignalized Intersections	A2492
–	310.040	1	Utility Isolation in Sidewalks	A1988
–	350.010	3	Urban, Industrial, Commercial, Institutional and Apartment Entrances	A1950
	350.020	–	Urbanized Entrance at Rural Roads	A2660
–	351.010	3	Driveway Entrance Sidewalk Depression	A1951

Division 400 – Frames and Grates

The table below shows Division 400 – Frames and Grates.

–	400.080	–	Catch Basin, Cast Iron, Side Inlet Frame	A2022
---	---------	---	--	-------

Division 500 – Paving

The table below shows Division 500 – Paving.

–	500.020	1	Cul-De-Sac for Terminated Urban Roadways in Subdivisions	A2013
–	525.010	1	Transition Point Treatment - New Road to Existing Road	A1920
–	561.010	–	Interlocking Concrete Paver Sidewalk on Granular Base	A1946
–	570.010	1	Standard Asphalt Footpath	A1930
–	571.010	–	Steel Stairway	B1139
–	580.010	1	Concrete Parking Meter Base	A1948
–	585.010	–	Typical Traffic Calming Speed Table	A2428-1

Index

OPSD #	GSSD #	Rev #	Description	GSS CAD/File Name
Division 600 – Curbs and Gutters				
The table below shows Division 600 – Curbs and Gutters.				
–	600.010	1	Concrete Barrier Curb with Wide Gutter	A1926
–	600.030	2	Concrete Mountable Curb with Standard Gutter	A1927
–	610.010	2	Concrete Curb and Asphalt Gutter Treatment at Catch Basin	A1933
Division 700 – Catch Basins and Maintenance Holes				
The table below shows Division 700 – Catch Basins and Maintenance Holes.				
–	700.030	3	Cast-in-Place Maintenance Hole or Maintenance Hole Catch Basin Max. Pipe Size 825 mm 1275 mm x 1275 mm Depth - 9.0 m Maximum	A1934
–	700.031	3	Storm Sewer Cast-in-Place Shallow Maintenance Hole or Maintenance Hole Catch Basin Max. Pipe Size 825 mm 1200 mm x 1200 mm Depth - 2.2 m Maximum	A1937
–	700.040	3	Cast-in-Place Maintenance Hole or Maintenance Hole Catch Basin Pipe Dia. from 900 mm to 1200 mm 1800 mm x 1800 mm Depth - 9.0 m Maximum	A1935
–	700.041	3	Cast-in-Place Maintenance Hole or Maintenance Hole Catch Basin For 1350 mm and Larger Pipes	A2016
–	701.017	2	Storm Sewer Precast Shallow Maintenance Hole or Maintenance Hole Catch Basin Max. Pipe Size 825 mm 1200 mm x 1200 mm Depth - 2.2 m Maximum	A1938

Index

OPSD #	GSSD #	Rev #	Description	GSS CAD/File Name
-----------	-----------	----------	-------------	-------------------------

The table below shows Division 700 – Catch Basins and Maintenance Holes continued.

–	702.040	2	Cast-in-Place Ditch Inlet Maintenance Hole Catch Basin Max. Pipe Size 825 mm 1200 mm x 1200 mm Depth - 4.0 m Maximum	A1939
–	705.011	2	Poured Concrete Catch Basin 600 mm x 600 mm Depth - 4.0 m Maximum	A1932
–	705.021	2	Cast-in-Place Twin Inlet Catch Basin 600 mm x 1450 mm Depth - 4.0 m Maximum	A1936
–	705.025	2	Cast-in-Place Twin Inlet Maintenance Hole Catch Basin 1200 mm x 1650 mm Depth - 3.7 m Maximum	A1940
–	705.035	2	Cast-in-Place Ditch Inlet Catch Basin 600 mm x 600 mm Depth - 4.0 m Maximum	A1941

Division 800 – Culverts and Drains

The table below shows Division 800 – Culverts and Drains.

–	820.010	1	Spacing for Multiple Culvert Installations	A1943
---	---------	---	--	-------

Division 900 – Fencing, Guide Rails

The table below shows Division 900 – Fencing, Guide Rails.

–	972.120	–	Site Gate Assembly and Details	B1128
–	972.121	–	Landfill Site Entrance Gate	B1131

Index

OPSD #	GSSD #	Rev #	Description	GSS CAD/File Name
Division 1000 – Sanitary Sewer				
The table below shows Division 1000 – Sanitary Sewer.				
–	1001.030	1	Precast Test Maintenance Hole Sanitary Sewer Service Connection	A1953
–	1001.040	1	Maintenance Access Chamber Sanitary Sewer Service Connection	A2024
–	1003.030	1	Internal Drop Structure for Service for Existing Maintenance Hole	A2017
–	1004.020	–	Dead End Maintenance Hole, Benching Details for Sanitary Service Connections and Outlet	A1919
–	1006.010	–	Sewer Service Connections for Rigid Main Pipe Sewer	A1954
–	1006.020	–	Sewer Service Connections for Flexible Main Pipe Sewer	A1955
–	1006.030	–	Dual Service Connections in a Common Trench (Sewer and Water)	A1956
–	1025.010	2	Standard Vertical Cleanout on a Sanitary Sewer Service	A1957
–	1100.012	4	Cast-in-Place Valve Chamber for 400 mm Diameter Watermain	A1959
–	1100.013	4	Cast-in-Place Valve Chamber for 500 mm Diameter Watermain	A1960
–	1100.014	4	Cast-in-Place Valve Chamber for 600 mm Diameter Watermain	A1961
–	1100.015	4	Cast-in-Place Valve Chamber for 750 mm Diameter Watermain with PVC and DI Pipe	A1962
–	1100.016	2	Cast-in-Place Valve Chamber for 750 mm Diameter Watermain with Concrete Pressure Pipe	A1963
–	1100.017	2	Cast-in-Place Valve Chamber for 900 mm Diameter Watermain with PVC and DI Pipe	A2014

Index

OPSD #	GSSD #	Rev #	Description	GSS CAD/File Name
Division 1100 – Watermains				
The table below shows Division 1100 – Watermains.				
–	1100.018	2	Cast-in-Place Valve Chamber for 900 mm Diameter Watermain with Concrete Pressure Pipe	A2015
–	1100.030	4	Valve and Swab Launching Station Watermain sizes 100 mm to 400 mm	A1964
–	1100.040	2	PVC to PE Pipe Transition and Concrete Anchor Block 200 PVC to 250 PE or 250 PVC to 315 PE	A1915
–	1100.041	2	PVC to PE Pipe Transition and Concrete Anchor Block 300 PVC to 400 PE	A1916
–	1100.042	2	PVC to PE Pipe Transition and Concrete Anchor Block 400 PVC to 500 PE or 500 PVC to 630 PE	A1917
–	1100.043	2	PVC to PE Pipe Transition and Concrete Anchor Block 600 PVC to 710 PE	A1918
–	1101.025	2	Sliding Valve Box	A1965
–	1103.030	2	Concrete Thrust Blocks for Tees, Plugs, Horizontal Bends and Dead Ends	A1966
–	1103.040	3	Concrete Thrust Blocks for Vertical Bends	A1967
–	1104.010	6	Water Service Connection Detail in Earth Trench for 20 mm to 50 mm Diameter Sizes	A1968
–	1104.011	6	Insulated Duct for Water Service Connection 20 mm to 50 mm Diameter Sizes	A1969

Index

OPSD #	GSSD #	Rev #	Description	GSS CAD/File Name
The table below shows Division 1100 – Watermains continued.				
–	1104.020	5	Polyethylene Water Service Connection Detail for 25 mm to 50 mm Diameter Sizes	A1970
–	1105.010	6	Hydrant Installation	A1971
–	1105.030	7	Corrosion Protection on Hydrant Installations	A1972
–	1106.030	2	Steel Casing for Pipe Installation	A1973
–	1107.010	1	Detail of 40 mm or 50 mm Water Meter Installation	A1981
–	1107.040	–	Detail - Water Connection with Meter Spacer up to 25 mm	A1974
–	1110.000	2	Tracer Wire Installation on PVC Watermain and Appurtenances	A2233
–	1115.000	1	Eclipse # 88 Watermain Sampling Station	A2199
–	1125.010	3	Test Stations for Cathodic Protection on Iron Watermains	A1975

Division 1200 – Miscellaneous

The table below shows Division 1200 – Miscellaneous.

–	1225.010	–	Dimensions for Payment of Rock Excavation in Trenches for Sewers, Watermains and Lateral Services	A1976
–	1226.010	–	Horizontal Control of Lateral Sewer and Water Connections in a Common Rock Trench with other Utilities	A1977
–	1227.010	4	Pipe Trench Details, Sanitary Sewers, Storm Sewers, Watermains and Services	A1944
–	1227.020	7	Rock Trench Details Rock Cut/Rock Fill	A2273
–	1228.010	–	Precast Concrete Hand Hole for Traffic Signal Ducts	A1928
–	1229.010	1	Frost Protection for Underground Round Structures	A1979
–	1229.020	–	Frost Protection for Underground Square Structures	A2018
–	1230.010	1	Reinforced Concrete Base for Traffic Signal Poles	A1980

Index

OPSD #	GSSD #	Rev #	Description	GSS CAD/File Name
The table below shows Division 1200 – Miscellaneous continued.				
-	1230.021	1	Unreinforced Concrete Base for 127 mm Diameter Traffic Signal Poles	A2276
-	1230.030	1	Unreinforced Concrete Base for Traffic Controller Cabinet	A2021
-	1231.000	1	Aluminum Traffic Signal Pole for Island, Pedestrian and Controller Cabinet	A2205
-	1231.100	-	Aluminum Traffic Signal Pole	A2204
-	1232.000	-	LED Pedestrian and LED Countdown Signal	A2206
-	1233.000	-	LED Vehicular Signal Head	A2207
-	1234.000	-	LED 5-Section Traffic Signal Displays	A2272