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### 2100 STORM DRAINAGE

2111	Run-o	ff Ca	<b>Iculations</b>

Standard	Standard#	Eff. Date
Intensity-Duration-Frequency Rainfall Curves	2111.010	2002/01

## 2112 Storm Sewer Requirements

Standard	Standard#	Eff. Date
Circular Drain Nomograph Flowing Full	2112.010	2002/01
Storm Drainage Design Chart for open Channels	2112.020	2002/01
Storm Drainage Design Chart for Circular Drains Flowing Full	2112.030	2002/01
Backfill Load on Pipes (On Site Backfill Materials)	2112.040	2002/01
Live Loads on Pipes (kN/m)	2112.050	2002/01
Pipe Strength & Bedding Design Chart	2112.060	2002/01
Minimum Class of Concrete Pipe	2112.070	2002/01
Bedding for Concrete Pipe	2112.080	2002/01
Sand Cover	2112.100	2002/01
Sewer Bedding (19mm Stone)	2112.110	2002/01
Granular Filter Material 6mm Washed Chip	2112.111	2002/01
Swing Grate for Storm Outlets 900 dia. to 3650 dia.	2112.120	2002/01
Swing Grate for Storm Inlets 900 dia. to 3650 dia.	2112.130	2002/01
Trash Rack Grate for Storm Inlet 900 dia. to 3000 dia.	2112.131	2002/01
Trash Rack Grate for Storm Inlet with Concrete Headwall 900 dia. to 3000 dia.	2112.132	2002/01

## 2113 Manhole Requirements

Standard	Standard#	Eff. Date
Drop Pipe for Manholes	2113.010	2002/01

## 2114 Catchbasin Requirements

Standard	Standard#	Eff. Date
Precast Catch Basin without Sump	2114.010	2002/01
Precast Ditch Inlet without Sump	2114.020	2002/01

## 2115 Roof Leaders, Foundation Drains and Storm Connections

Standard	Standard#	Eff. Date
Location of Services Single Family Residential Lot	2115.010	2002/01
Location of Services Semi-detached Residential Lot	2115.020	2002/01
Location of Services Single Family Residential Lots where	2115.030	2002/01
Double Sanitary& Storm House Connections are used		
Location of Utility Services Single Family Residential Lots where Rear	2115.040	2002/01
Yard Catchbasin Connections are Required		
Sewer Connections in Common Trench	2115.050	2002/01

2200 ROADWAYS

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	Standard	Standard#	Eff. Date
_	stricted Truck Barricade mporary Emergency Access Route	2200.010 2200.020	2002/01 2002/01
2211 Ge	ometric Design - Roadways		
	Standard	Standard#	Eff. Date
	ometric Design Standards for Roads	2211.010	2002/01
	est Vertical Curves Minimum Stopping Sight Distance	2211.020	2002/01
	g Vertical Curves Minimum Stopping Sight Distance	2211.030	2002/01
	ad Cross Sections	2211.040	2002/01
	ad Cross Sections	2211.050	2002/01
	nor Local Residential Road 8.0m Road on 17m ROW	2211.060	2002/01
	cal Residential Road 8.0m Road on 20m ROW nor Residential Collector Road 10m Road on 22m ROW	2211.070	2002/01
	cal Industrial Road 12.5m Road on 24m ROW	2211.080 2211.090	2002/01 2002/01
	lustrial and Residential Collector Road 14.5m Road on 26m ROW nor Arterial Road 15.5m Road on 30m ROW	2211.100 2211.110	2002/01
	ane Divided Arterial Road 23m Road on 35m ROW	2211.110	2002/01 2002/01
	ane Arterial Road 23m Road on 35m ROW	2211.120	2002/01
	ffer Road 8.0m Road on 17m ROW	2211.130	2002/01
	ane Residential Collector Road 17m Road on 30m ROW	2211.150	2002/01
	cal Residential Road (Pavement Offset) 8.0m Road on 18m ROW	2211.151	2002/01
	cal Residential Road (Pavement Offset) 8.0m Road on 20m ROW	2211.152	2002/01
	ersections with Minor Residential Roads	2211.160	2002/01
Inte	ersections with Residential Roads	2211.170	2002/01
	ersections Minor Residential Collector Road with Minor Residential llector Road and Collector with Road	2211.180	2002/01
Inte	ersections Minor Residential Collector Road with Collector Road tion 'A' or 'B'	2211.181	2002/01
	ersection Collector Road to Collector Road	2211.190	2002/01
	ersection Minor Arterial Road to Minor Arterial Road	2211.200	2002/01
	ersection 4 Lane Divided Arterial to 4 Lane Divided Arterial	2211.210	2002/01
Inte	ersections Minor Industrial Roads	2211.220	2002/01
Inte	ersections Industrial Roads	2211.230	2002/01
Res	sidential Road Cul-De-Sac	2211.240	2002/01
Ind	lustrial Road Cul-De-Sac	2211.250	2002/01
Exp	panded Right of Ways at Curves in Local Roadways	2211.260	2002/01
Mir	nor Residential Road Cul-De-Sac Utility Locations	2211.270	2002/01
	lity Corridor (Joint Use Trench A)	2211.280	2002/01
Util	lity Corridor (Joint use Trench B)	2211.290	2002/01

Page 3 2200 **ROADWAYS** 2212 **Driveway Entrances** Standard Standard# Eff. Date Driveway Locations for Key Lots 2212.010 2002/01 2220 **Pavement Design** Standard Standard# Eff. Date Pavement and Road Base Design Requirements 2002/01 2220.010 Frost Suitability of Soils 2220.020 2002/01 Trench Restoration for Open Cut Utility Installation Under Roadways 2220.030 2002/01 Utility Installation Urban/Rural (Curb) Perpendicular and or Parallel 2220.031 2002/01 to Curb **Utility Installation Notes** 2220.032 2002/01 Subdrains 2002/01 2220.040 Granular Connections at Driveways 2220.050 2002/01 Roadway Compaction Requirements 2220.060 2002/01 **Curb and Gutter** 2230 Standard Standard# Eff. Date Concrete Barrier Curb with Standard Gutter Two Stage Construction 2230.010 2002/01 2240 **Sidewalks** Standard Standard# Eff. Date Concrete Sidewalk 2240.010 2002/01 Pedestrian Sidewalk Entrances at Intersections Barrier Curb 2240.020 2002/01 Pedestrian Sidewalk Entrances at Intersections - Curb and Gutter 2240.030 2002/01 Concrete Sidewalk Abutting Curb or Curb and Gutter 2240.040 2002/01 Concrete Splash Pad 2002/01 2240.041 Concrete Walkway 2240.050 2002/01 Typical Concrete Pad for Newspaper Box Application 2002/01 2240.070 2250 Transit Standard Standard# Eff. Date Concrete Bus Stop Platform 2250.010 2002/01

Concrete Shelter Pad

Concrete Bus Shelter Pad and Platform

2002/01

2002/01

2250.020

2250.030

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### 2400 STREET NAME AND TRAFFIC SIGNS

## 2430 Traffic Control Signs

Standard	Standard#	Eff. Date
Pedestrian Push Button Sign	2430.010	2002/01
1200 x 1200 Sign	2430.020	2002/01
1200 x 2400 Sign	2430.030	2002/01
Project Identification Sign Message	2430.040	2002/01
Future Pedestrian Walkway Sign Message	2430.050	2002/01
Wording for Signs Indicating Sites for Multiple Housing or	2430.060	2002/01
Non Residential Use Messages		
Mail Service Information Sign	2430.070	2002/01
Meter Pedestal Installation	2430.080	2002/01
Meter Pedestal Installation Bumper Type	2430.090	2002/01
Yield & Stop Sign Detail "A"	2430.100	2002/01
Street Name Sign Detail "B"	2430.110	2002/01
Local to Local Intersection Street Name Sign Location Detail "C"	2430.120	2002/01
Local to Local Arterial Intersection	2430.130	2002/01
Local to Local Intersection	2430.140	2002/01
Oversized Street Name Signs at Signalized Intersections	2430.150	2002/01

### 2600 TRAFFIC SIGNALS

Standard	Standard#	Eff. Date
Power Service Pedestal (POWCO 8500 Series or Equal)	2600.010	2002/01
Typical Power Supply Mounting Detail	2600.011	2002/01
Typical Traffic Signal Wiring Details	2600.012	2002/01
Typical Traffic Signal Conductor Assignment	2600.013	2002/01
Typical Traffic Control Signal Schematic Wiring Diagram	2600.014	2002/01
Typical Loop Vehicle Detector Layout	2600.015	2002/01
Pole Base For Combination Traffic Signal & Streetlight Poles	2600.040	2002/01
& Survey Monuments		
Concrete Base for Controller Cabinet	2600.041	2002/01
Typical Traffic Signal Equipment Mounting Detail (6000&7500 Poles) (9000&10500 Poles)	2600.050	2002/01
Typical Traffic Signal Wiring Detail	2600.060	2002/01

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### 2800 RESIDENTIAL LOT DRAINAGE AND SODDING

### 2840 Rear Yard

Standard	Standard#	Eff. Date
Chain Link Fence	2850.010	2002/01
Chain Link Security Gate	2850.020	2002/01
Acoustical Fence Designation Sign	2850.030	2002/01
Wooden Acoustic Fence Type 'A' & 'B'	2850.040	2002/01
Notes for the Wooden Acoustic Fence Type 'A' & 'B'	2850.050	2002/01

### 2900 EROSION AND SEDIMENT CONTROL

#### 2930 Catchbasin Sediment Control

Standard	Standard#	Eff. Date
Catchbasin Sediment Trap Unpaved Areas Draining 2.0 ha to 4.0 ha	2930.010	2002/01
Catchbasin Sediment Barrier R.L.C.B or within Unpaved Areas Type 'A'	2930.020	2002/01
Catchbasin Sediment Barrier R.L.C.B or within Unpaved Areas Type 'B'	2930.030	2002/01
Roadway Catchbasin Sediment Control Device Type 'A'	2930.040	2002/01
Roadway Catchbasin Sediment Control Device Type 'B'	2930.050	2002/01

### 2940 Sediment Control Fence

Standard	Standard#	Eff. Date
Sediment Control Fence	2940.010	2002/01
Temporary Sediment Pond Warning Sign	2940.020	2002/01
Stormwater Management Facility Warning Sign	2940.021	2002/01

### 2970 Stone Pad Construction Entrance

Standard	Standard#	Eff. Date
Stone Pad Construction Entrance	2970.010	2002/01

### 2980 Rock Check Dam

	Standard	Standard#	Eff. Date
Rock Check Dam		2980.010	2002/01

## 3000 STREET LIGHTING

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## 3100 Enersource Street Lighting

Standard	Standard#	Eff. Date
Street Lighting 240V U/G System Design Individually Controlled and Fused	3100.020	2002/01
Street Lighting 240V U/G System Design Using Springdale Luminaire Individually Controlled and Fused	3100.030	2002/01
Street Lighting 347V U/G System Design Individually Controlled and Fused	3100.040	2002/01
Street Lighting Supply 240V & Traffic Lights Supply 120/240V 9.9m (32.5ft) Class A Centrifugally Cast Round Concrete	3100.050 3100.080	2002/01 2002/01
Streetlight Pole Detail		
12.2m (40ft) Class B Centrifugally Cast Round Concrete Streetlight Pole Detail	3100.090	2002/01
15.2m (50ft) Class D Centrifugally Cast Round Concrete Streetlight Pole Detail	3100.100	2002/01
9.9m (32.5ft) Class A Octagonal Concrete Streetlight Pole Detail	3100.110	2002/01
12.2m (40ft) Class B Octagonal Concrete Streetlight Pole Detail	3100.120	2002/01
15.2m (50ft) Class D Octagonal Concrete Streetlight Pole Detail	3100.130	2002/01
8.2m (27ft) Class B Decorative Concrete Streetlight Pole Detail	3100.140	2002/01
Streetlight Pole and Luminaire Orientation (Concrete)	3100.150	2002/01
Streetlight Pole and Luminaire Orientation (Springdale)	3100.160	2002/01
Hydro Supply Pole Individually Controlled Arrangement	3100.180	2002/01
Streetlighting 6ft Victorian Style Aluminum Bracket (Springdale)	3100.200	2002/01
Streetlighting Typical Springdale Luminaire	3100.210	2002/01
Streetlighting Separation & Trench Requirements for Streetlighting only	3100.220	2002/01
Streetlight Poles and Bracket Direct Buried Installation	3100.230	2002/01
Requirements (Concrete Pole)		