Standard Details Table of Contents

Landscaping (February 2020)

LS-01 Tree Planting
LS-02 Tree Planting on Slope
LS-03 Boxed Tree 25” or Greater
LS-04 Shrub Planting
LS-05 Shrub Planting on Slope
LS-06 Concrete / Asphalt / Engineered Fill over Tree Roots
LS-07 Tree Root Barrier
LS-08 Boring within Tree Protection Zone
LS-09 Quick Coupling Valve
LS-10 Rotary Sprinkler Head with Double Swing Joint
LS-11 Pop-up Bubbler
LS-12 Pop-up Broadcast Head
LS-13 Drip Irrigation Valve Pressure Regulator
LS-14 Single Outlet Emitter
LS-15 Drip Irrigation Multi-Outlet Emitters
LS-16 Emitter with Valve Box
LS-17 Flow Sensor
LS-18 Flow Sensor for Low Flows
LS-19 Ball Valve 3” and Smaller
LS-20 Irrigation System Trenching
LS-21 Landscape Sleeves Under Pavement
LS-22 Irrigation Controller Enclosure
LS-23 Electric Control master Valve Ball Valve
LS-24 Solenoid Valve
LS-25 Electrical Service Pedestal
LS-26 Electrical Service Pedestal with Combined Irrigation and Lighting Controls
LS-27 Service Riser
LS-28 Wall Mounted Controller
LS-29 Pedestal Mounted Controller
LS-30 Sewer and Water Main Markers in Landscaped Areas
LS-31 Valve Box Layout
LS-32 Pullbox
LS-33 Drinking Fountain In-Ground Mount with Drain
LS-34 Drinking Fountain In-Ground Mount with Sump
LS-35 Picnic Table
LS-36 Trash Can Tie-Down
LS-37 Concrete Walk
LS-38 Decomposed Granite Path
LS-39 Bike Trail Section
LS-40 Exposed Aggregate Paving
LS-41 Collapsible Bollard
LS-42 Pipe Gate (Single Gate)
LS-43 Pipe Gate (Double Gate)
LS-44 Line Post
LS-45 Bike Path Striping and Bollard Placement
LS-46 Post and Cable
LS-47 Headerboard
LS-48 Play Area Containment Curb
LS-49 Concrete Mow Strip
LS-50 Concrete Seat Wall
LS-51 Play Area Curb
LS-52 Playground Subdrain
LS-53 Playground Underdrain
LS-54 Chain Link Fence
LS-55 Rodent Barrier Fence
LS-56 Jute Mesh Installation
LS-57 Park Sign Monument

Road (April 2021)

RD-01 Curb and Gutter
RD-02 Commercial Driveway A-6
RD-03 Commercial Entrance A-7
RD-04 Curb Ramps
RD-05 Dual Curb Ramps
RD-06 Curb Ramp Specifications
RD-07 Street Closure Timber Barricade
RD-08 Signs and Barricades at the End of Pavement Widening
RD-09 Sidewalk Barricade
RD-10 Pedestrian Lane with Bike Barrier
RD-11 Street Sign Fully Reflectorized
RD-12 Street Name Sign on Signal Pole
RD-13 Street Name Sign Placement
RD-14 Street Light, Stop Sign, Street Sign, & Crosswalk Placement
RD-15 Street Name Sign Location
RD-16 Street Name Sign Support Arm Clamp
RD-17 Street Name Sign Installation on Street Light Pole
RD-18 Street Name Sign Installation on Signal Pole
RD-19 Bus Stop
RD-20 Under Sidewalk Drain
RD-21 Typical Trench Sections
RD-22 Emergency Vehicle Mountable Median Curb
RD-23 Concrete Survey Monument
RD-24 Trash and Recycling Enclosure
RD-25 Residential Driveway Profile
RD-26 Standard Alley Right-Of-Way
RD-27 Standard Residential Cul-De-Sac Right-Of-Way
RD-28 Standard Minor Collector Right-Of-Way
RD-29 Standard Collector Right-Of-Way
RD-30 Standard Minor Arterial and Divided Major Arterial Rights-Of-Way
RD-31 Right Turn Deceleration Lane
RD-32 Type A Lot Grading
RD-33 Type B and C Lot Grading
RD-34 Property Line Grading

**Storm Drain (February 2020)**

SD-01 No Dumping Public Notice
SD-02 Corrugated Steel Pipe Drainage Inlet Type 1
SD-03 Pipe Connections
SD-04 Storm Drain Pipe Bedding
SD-05 Drop Inlet Frame and Grate for Type A, B, & C
SD-06 Drop Inlet Type A
SD-07 Drop Inlet Type B
SD-08 Drop Inlet Type C
SD-09 Drop Inlet Frame and Grate for Type D & E
SD-10 Drop Inlet Type D
SD-11 Drop Inlet Type E
SD-12 Drop Inlet Type F
SD-13 Area Drain
SD-14 Drainage Swale
SD-15 Pipe Outfall Access Control Rack 18” and Larger
SD-16 Pipe Inlet and Trash Rack 30” Pipe and Smaller
SD-17 Pipe Inlet Structure 33” and Larger
SD-18 Pipe Inlet and Trash Rack 33” and Larger
SD-19 Outfall Structure Pipe Less than 18 inches
SD-20 Outfall Structure Pipe 18 inches or Greater
SD-21 Erosion Control Ditch Discharge
SD-22 Lined Channel Section
SD-23 Typical Ramp and Transition
SD-24 Grated Manhole Cover
SD-25 Standard 24: Manhole Frame and Cover
SD-26 Drainage Grate Manhole Cover
SD-27 Standard 36” Manhole Frame and Cover
SD-28 Standard Precast Manhole
SD-29 Saddle Manhole
SD-30 Drain Inlet - Type GOL (1 of 4)
SD-31 Drain Inlet - Type GOL (2 OF 4)
SD-32 Drain Inlet - Type GOL (3 OF 4)
SD-33 Drain Inlet - Type GOL (4 OF 4)
SD-34 Storm Drain Outfall Energy Dissipater Type 1
SD-35 Storm Drain Outfall Energy Dissipater Type 2
SD-36 Storm Drain Outfall Energy Dissipater Type 3
SD-37 Storm Drain Outfall Energy Dissipater Type 4
SD-38 High Rate Storm Drain Interceptor

**Signals and Lighting (February 2020)**
SL-01 Loop Detectors
SL-02 Loop Detector Location
SL-03 Service Cabinet and Meter Socket
SL-04 Unmetered Service Enclosure
SL-05 Standard Splicing
SL-06 Direct Service Installation Street Lighting Power
SL-07 Standard Pullbox
SL-08 Traffic Rated Pullbox
SL-09 Standard Controller Cabinets
SL-10 Local Solid State Pedestrian Controller Base
SL-11 Base Design for Street Light Standard
SL-12 Base Location for Street Standard
SL-13 Direct Service Installation to Street Light Standard
SL-14 Type ‘A’ Street Light Standard
SL-15 Type ‘B’ Street Light Standard
SL-16 Fiber Splice Vault

**Sewer (February 2020)**
SS-01 Standard 48” Precast Sewer Manhole
SS-02 Standard 60” Precast Sewer Manhole
SS-03 Cast-in-place Concrete Manhole Base
SS-04 Inside Drop Connection
SS-05 Inside Drop Connection Manhole Attachment
SS-06 Sewer Manhole Frame and Cover
SS-07 Lined Sewer Manhole
SS-08 Sewer Service Lateral
SS-09 Flushing Branch
SS-10 Cleanout to Grade
SS-11 Cleanout to Grade (Less than 4’ Depth)
SS-12 Cleanout to Grade (Main Deeper than Lateral)
SS-13 Cleanout to Grade (With Backflow Preventer)
SS-14 1”-3” Combination Air Release Valve for Sewer Force Mains
SS-15 Sewer System Pipe Bedding for Mains and Services
SS-16 Pipe Encasement
SS-17 Utility Crossing
SS-18 Water Main and Other Wet Utility Crossing
SS-19 Utility Stream Crossing
SS-20 Sanitary Sewer and Storm Drain Crossing

**Water (February 2020)**

WR-01A Metered Water Service 1” thru 2”
WR-01B Metered Water Service Notes
WR-02 3” or Larger Meter Installation
WR-03 Water Service Manifold for Multiple 1” Services
WR-04 Thrust Block Bearing Area
WR-05 4” & 6” End of Line Blow-off Valve Assembly
WR-06 4” & 6” In-line Blow-off Valve Assembly
WR-07 Water Valve Riser and Box
WR-08 Fire Hydrant and Valve Installation
WR-09 Fire Protection Assembly
WR-10 2 ½” and Larger Domestic Backflow Preventer Assembly
WR-11 1” and 2” Air & Vacuum Release Valve
WR-12 Locating Wire for Water Mains
WR-13 Fire Hydrant Protection
WR-14 Pressure Reducing Station
WR-15 Water System Pipe Bedding for Mains and Services
WR-16 Water Sampling Station
WR-17 Water Service and ARV Saddle
WR-18 Temporary Connection for Loading and Testing
WR-19 Exothermic Welds
WR-20 Typical 3” & 4” Domestic Meter Installation
WR-21 Typical 6” & 8” Domestic Meter Installation
WR-22 Water Mains Crossing Below Sanitary Sewer or Storm Drain
WR-23 Water Service Multi-connection
WR-24 1” Thru 2” Non-potable Metered Water Service
WR-25 3” or Greater non-potable Metered Water Service
WR-26 2” & Smaller Domestic Backflow Preventer Assembly
WR-27 Deep Fill Trench Backfill
WR-28 Fire and Domestic Service