

Section 1 Street Improvements

GENERAL

Number	Description	Sheet Number	Revision Date	Author
100-1	Topography Symbols	1 of 2	1993	APWA
100-1	Topography Symbols	2 of 2	1993	APWA
101-1	Above Ground Utilities Location in Parkway	1 of 1	1996	APWA
101-1	Above Ground Utilities Location in Parkway	1 of 1	1996	APWA
102-AG	Location of Underground Utilities	1 of 1	10/14/2003	AG
103-AG	Sign Placement	1 of 1	7/1/2004	AG
104-AG	Sight Distance Triangle	1 of 1	10/14/2003	AG
105-AG	Sign and Parking Meter Post	1 of 1	7/1/2004	AG
106-AG	Concrete Bus Turnout	1 of 1	7/1/2004	AG
107-AG	Hydrant Reflector	1 of 1	7/1/2004	AG

SIDEWALKS, DRIVEWAYS, AND RAMPS

Number	Description	Sheet Number	Revision Date	Author
110-AG	Driveway Approach - Residential	1 of 2	10/14/2003	AG
110-AG	Driveway Approach - Commercial	2 of 2	10/14/2003	AG
111-AG	Curb Ramp - Corners (Type 1)	1 of 4	10/14/2003	AG
111-AG	Curb Ramp - Corners (Type 2)	2 of 4	10/14/2003	AG
111-AG	Curb Ramp - Mid-Block (Type 1)	3 of 4	10/14/2003	AG
111-AG	Curb Ramp - Mid-Block (Type 2)	4 of 4	10/14/2003	AG
112-AG	Curb and Sidewalk Joints	1 of 1	7/1/2004	AG
113-AG	Sidewalk Replacement	1 of 2	10/14/2003	AG
113-AG	Sidewalk Replacement	2 of 2	10/14/2003	AG
114-AG	Driveway Location	1 of 1	7/1/2004	AG
115-AG	Detached and Integral Sidewalk	1 of 1	7/1/2004	AG
116-AG	Detached and Integral Sidewalk Transitions	1 of 1	10/14/2003	AG
117-AG	Sidewalk Return Transitions	1 of 1	10/14/2003	AG
118-AG	Driveway Profiles - Upward	1 of 2	10/14/2003	AG
118-AG	Driveway Profiles - Downward	2 of 2	10/14/2003	AG
119-AG	Raised Crosswalk	1 of 3	7/1/2004	AG
119-AG	Raised Crosswalk	2 of 3	7/1/2004	AG
119-AG	Raised Crosswalk	3 of 3	7/1/2004	AG

CURB AND GUTTER

Number	Description	Sheet Number	Revision Date	Author
120-AG	Curb and Gutter - Barrier	1 of 2	10/14/2003	AG
120-AG	Curb and Gutter - Barrier	2 of 2	10/14/2003	AG
121-AG	Curb and Gutter - Mountable	1 of 1	10/14/2003	AG
122-AG	Cross and Longitudinal Gutter	1 of 2	10/14/2003	AG
122-AG	Cross and Longitudinal Gutter	2 of 2	10/14/2003	AG
123-AG	Curb Face House Number	2 of 2	10/14/2003	AG
124-AG	Curb and Gutter (24" Rolled Curb)	1 of 1	7/1/2004	AG
125-AG	Red Curb Layout	1 of 2	7/1/2004	AG
125-AG	Red Curb Layout	2 of 2	7/1/2004	AG

Section 1
Street Improvements
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PAVEMENT

Number	Description	Sheet Number	Issue Date	Author
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131-1	Concrete Bus Pad	1 of 2	1996	APWA
131-1	Concrete Bus Pad	2 of 2	1996	APWA
132-1	Concrete Pavement Replacement	1 of 2	1996	APWA
132-1	Concrete Pavement Replacement	2 of 2	1996	APWA
133-AG	Asphalt Concrete Pavement Replacement (Dig-Out)	1 of 1	7/1/2004	AG
134-1	Concrete Pavement Joint Details	1 of 2	1996	APWA
134-1	Concrete Pavement Joint Details	2 of 2	1996	APWA
135-AG	Asphalt Pavement Replacement over Trench Construction	1 of 1	10/14/2003	AG
136-AG	Elements of Flexible Paving	1 of 1	7/1/2004	AG
137-AG	Roadway Taper Grind	1 of 1	7/1/2004	AG

MEDIAN

Number	Description	Sheet Number	Issue Date	Author
140-2	Median Taper	1 of 1	1996	APWA
141-1	Median Flare	1 of 1	1996	APWA
142-AG	Median Details	1 of 1	7/1/2004	AG

PARKWAY DRAINAGE

Number	Description	Sheet Number	Issue Date	Author
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151-AG	Parkway Drain	1 of 1	10/14/2003	AG

MISCELLANEOUS

Number	Description	Sheet Number	Issue Date	Author
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161-AG	Off-Street Parking	1 of 2	10/14/2003	AG
161-AG	Off-Street Parking	2 of 2	10/14/2003	AG
162-AG	Street Name Sign	1 of 1	10/14/2003	AG
163-AG	Speed Hump Plan and Detail	1 of 3	10/14/2003	AG
163-AG	Speed Hump Plan and Detail	2 of 3	10/14/2003	AG
163-AG	Speed Hump Plan and Detail	3 of 3	10/14/2003	AG
164-AG	Typical Knuckle	1 of 1	10/14/2003	AG
165-AG	Cul-De-Sac - Type I	1 of 3	10/14/2003	AG
165-AG	Cul-De-Sac - Type II	2 of 3	10/14/2003	AG
165-AG	Cul-De-Sac - Type III	3 of 3	10/14/2003	AG
166-AG	Typical Street Design Sections	1 of 3	7/1/2004	AG
166-AG	Typical Street Design Sections	2 of 3	7/1/2004	AG
166-AG	Typical Street Design Sections	3 of 3	7/1/2004	AG
167-AG	Disabled Accessible Parking Space Layout and Signage	1 of 2	7/1/2004	AG
167-AG	Disabled Accessible Parking Space Layout and Signage	2 of 2	7/1/2004	AG
168-AG	Fire Department Turnaround	1 of 1	7/1/2004	AG
169-AG	All Weather Access Road	1 of 1	7/1/2004	AG

Section 2 Sewers and Sanitation

MANHOLES AND STRUCTURES

Number	Description	Sheet Number	Issue Date	Author
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200-AG	Sewer Manhole (Alternate)	2 of 2	7/1/2004	AG
201-AG	Shallow Sewer Manhole	1 of 1	7/1/2004	AG
202-AG	Drop Sewer Manhole	1 of 1	7/1/2004	AG
204-AG	Terminal Cleanout Structure	1 of 1	10/14/2003	AG
205-AG	Sewer Manhole Adjustment	1 of 1	10/14/2003	AG
207-AG	Precast Manhole Base	1 of 1	7/1/2004	AG
208-AG	Breaking Into Existing Manholes (PreCast Concrete)	1 of 2	10/14/2003	AG
208-AG	Breaking Into Existing Manholes (Brick)	2 of 2	10/14/2003	AG
209-AG	Cul-De-Sac Sewer Manhole	1 of 1	10/14/2003	AG

MANHOLE HARDWARE

Number	Description	Sheet Number	Issue Date	Author
210-2	24" Manhole Frame and Cover (Locking Type)	1 of 2	10/14/2003	APWA
210-2	24" Manhole Frame and Cover (Locking Type)	2 of 2	10/14/2003	APWA
211-1	Manhole Frame and Cover (Pressure Type)	1 of 2	10/14/2003	APWA
211-1	Manhole Frame and Cover (Pressure Type)	2 of 2	10/14/2003	APWA
212-1	Anchor System for Pressure Cover	1 of 1	10/14/2003	APWA

PIPE APPURTENANCES

Number	Description	Sheet Number	Issue Date	Author
220-AG	Chimneys (Steep Sewer Service Lateral)	1 of 1	10/14/2003	AG
221-1	Pipe Anchors and Backfill Stabilizers	1 of 2	10/14/2003	APWA
221-1	Pipe Anchors and Backfill Stabilizers	2 of 2	10/14/2003	APWA
222-AG	Sewer Lateral (With Cleanout)	1 of 2	10/14/2003	AG
222-AG	Sewer Lateral (Without Cleanout)	2 of 2	10/14/2003	AG
223-1	House Connection Remodeling	1 of 3	10/14/2003	APWA
223-1	House Connection Remodeling	2 of 3	10/14/2003	APWA
223-1	House Connection Remodeling	3 of 3	10/14/2003	APWA
224-1	Supports for Conduits Across Trenches	1 of 2	10/14/2003	APWA
224-1	Supports for Conduits Across Trenches	2 of 2	10/14/2003	APWA
225-1	Blanket Protection for Pipes	1 of 1	10/14/2003	APWA
226-AG	Sewer Flushing Branch (For Private Use Only)	1 of 1	10/14/2003	AG

MISCELLANEOUS

Number	Description	Sheet Number	Issue Date	Author
230-AG	Sewer to Water Main Relationship (General Notes)	1 of 3	10/14/2003	AG
230-AG	Sewer to Water Main Relationship (New Sewer Installation)	2 of 3	10/14/2003	AG
230-AG	Sewer to Water Main Relationship (New Water Main Installation)	3 of 3	10/14/2003	AG
231-AG	Sewer Abandonment	1 of 1	7/1/2004	AG

Section 3
Flood Control and Storm Drain Facilities

CATCH BASIN

Number	Description	Sheet Number	Issue Date	Author
300-AG	Curb Opening Catch Basin	1 of 1	10/14/2003	AG

MISCELLANEOUS DRAINAGE FACILITIES

Number	Description	Sheet Number	Issue Date	Author
385-AG	Drainage Ditches	1 of 1	10/14/2003	AG

Section 5 Landscaping and Irrigation Systems

IRRIGATION AND ELECTRICAL DETAILS

Number	Description	Sheet Number	Issue Date	Author
500-0	Standard Symbols	1 of 2	1984	APWA
500-0	Standard Symbols	2 of 2	1984	APWA
501-1	Electrical Service	1 of 3	1996	APWA
501-1	Electrical Service	2 of 3	1996	APWA
501-1	Electrical Service	3 of 3	1996	APWA
502-1	Angle Valve	1 of 1	1996	APWA
503-1	Gate Valve	1 of 1	1996	APWA
504-AG	Quick Coupler Valve	1 of 1	7/1/2004	AG
505-AG	Hose Bibb Valve	1 of 1	7/1/2004	AG
506-AG	Remote Control Valve (Master Valve)	1 of 3	7/1/2004	AG
506-AG	Remote Control Valve (with Pressure Regulation)	2 of 3	7/1/2004	AG
506-AG	Valve Box Layout Plan	3 of 3	7/1/2004	AG
507-1	Remote Control Valve With Quick Coupler	1 of 1	1996	APWA
508-1	Thrust Blocks for Plastic Pipe	1 of 1	1996	APWA
509-AG	Irrigation Sprinkler Head (Small Turf Rotor)	1 of 3	7/1/2004	AG
509-AG	Irrigation Sprinkler Head (Large Turf Rotor)	2 of 3	7/1/2004	AG
509-AG	Rotor Head on Riser	3 of 3	7/1/2004	AG
510-AG	Vacuum Breaker Assembly (Atmospheric Type - 2" and Smaller)	1 of 2	7/1/2004	AG
510-AG	Vacuum Breaker Assembly (Pressure Type - 2" and Smaller)	2 of 2	7/1/2004	AG
511-AG	Backflow Preventer Assembly (Double Check Type - 2" and Smaller)	1 of 2	7/1/2004	AG
511-AG	Backflow Preventer Assembly (Reduced Pressure Type - 2" and Smaller)	2 of 2	7/1/2004	AG
513-1	Electrical Pull Box	1 of 2	1996	APWA
513-1	Electrical Pull Box	2 of 2	1996	APWA
514-AG	Electrical Irrigation Controller	1 of 1	7/1/2004	AG
515-1	Pipe Pinning	1 of 1	1996	APWA
516-1	Security Enclosure	1 of 2	1996	APWA
516-1	Security Enclosure	2 of 2	1996	APWA
517-1	Swing Joint Assembly	1 of 2	1996	APWA
517-1	Swing Joint Assembly	2 of 2	1996	APWA
518-AG	Irrigation Mainline and Fittings (4" and greater)	1 of 2	7/1/2004	AG
518-AG	Irrigation Mainline and Fittings (4" and greater)	2 of 2	7/1/2004	AG
519-AG	Rain Sensor	1 of 1	7/1/2004	AG

TREE AND SHRUB PLANTING

Number	Description	Sheet Number	Issue Date	Author
520-AG	Tree Planting	1 of 2	10/14/2003	AG
520-AG	Tree Planting	2 of 2	10/14/2003	AG
521-AG	Shrub Planting	1 of 1	7/1/2004	AG
522-AG	Tree Well Cover (Concrete)	1 of 2	7/1/2004	AG
522-AG	Tree Well Cover (Steel)	2 of 2	7/1/2004	AG
523-AG	Bubbler Irrigation Details	1 of 1	7/1/2004	AG
525-AG	Typical Tree Well and Staking	1 of 1	7/1/2004	AG
526-AG	Redwood Planting	1 of 1	7/1/2004	AG
528-AG	Slope Planting	1 of 1	7/1/2004	AG
529-AG	Ground Cover Spacing	1 of 1	7/1/2004	AG

Section 5
Landscaping and Irrigation Systems
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DRIP IRRIGATION

Number	Description	Sheet Number	Issue Date	Author
530-AG	Drip Irrigation Details	1 of 1	7/1/2004	AG
531-AG	Drip Irrigation System Head	1 of 1	7/1/2004	AG

HARDSCAPE ELEMENTS

Number	Description	Sheet Number	Issue Date	Author
540-AG	Concrete Mow Strip	1 of 1	7/1/2004	AG
541-AG	Concrete Header at Slope	1 of 1	7/1/2004	AG
542-AG	Lamp Post Stub Out	1 of 1	7/1/2004	AG
543-AG	Structural Turf Paving	1 of 1	7/1/2004	AG
544-AG	Brick Pavers on Sand Base	1 of 1	7/1/2004	AG
545-AG	Concrete Paving	1 of 1	7/1/2004	AG
546-AG	Play Area Planter Wall	1 of 1	7/1/2004	AG
547-AG	Resilient Play Surface	1 of 1	7/1/2004	AG
548-AG	Play Area Wall	1 of 1	7/1/2004	AG
549-AG	Stepped Seating Wall	1 of 1	7/1/2004	AG

PARK FACILITIES

Number	Description	Sheet Number	Issue Date	Author
560-AG	Barbeque Grill	1 of 1	7/1/2004	AG
561-AG	Bike Rack	1 of 1	7/1/2004	AG
562-AG	Drinking Fountain	1 of 1	7/1/2004	AG
563-AG	Volleyball Court	1 of 1	7/1/2004	AG
564-AG	Horseshoe Pit	1 of 2	7/1/2004	AG
564-AG	Horseshoe Pit	2 of 2	7/1/2004	AG
565-AG	Basketball Court	1 of 2	7/1/2004	AG
565-AG	Basketball Court	2 of 2	7/1/2004	AG
566-AG	Sign Lighting Fixture	1 of 1	7/1/2004	AG

Section 6 General Facilities

PROTECTIVE FACILITIES

Number	Description	Sheet Number	Issue Date	Author
600-1	Chain Link Fence and Gates	3 sheets	1996	APWA
601-1	Reinforced Concrete Block Wall	4 sheets	1996	APWA
602-1	Standard Pipe Gate for Access Roads	2 sheets	1996	APWA
603-AG	Barricade	1 of 1	10/14/2003	AG
604-AG	Culvert Marker and Guidepost	1 of 1	10/14/2003	AG
605-AG	Chain-Link Safety Fence	1 of 1	7/1/2004	AG
606-AG	Split Rail Fencing	1 of 1	7/1/2004	AG
607-AG	Bollard Detail (Removable Wooden Bollard)	1 of 2	10/14/2003	AG
607-AG	Bollard Detail (Steel Pipe Bollard)	2 of 2	10/14/2003	AG
608-AG	Sidewalk Closure Barricade	1 of 1	7/1/2004	AG
609-AG	Pedestrian Guardrail	1 of 1	7/1/2004	AG

RETAINING STRUCTURES

Number	Description	Sheet Number	Issue Date	Author
610-1	Reinforced Concrete (Retaining Wall Type 1)	2 sheets	1996	APWA
611-1	Reinforced Concrete (Retaining Wall Type 2)	3 sheets	1996	APWA
612-1	Reinforced Concrete (Retaining Wall Type 3)	3 sheets	1996	APWA
613-1	Reinforced Concrete (Retaining Wall Type 4)	2 sheets	1996	APWA
614-1	Reinforced Concrete (Retaining Wall Type 5)	2 sheets	1996	APWA
615-2	Reinforced Concrete (Retaining Wall Type 6)	1 of 1	1996	APWA
616-1	Reinforced Concrete (Retaining Wall Type 7)	2 sheet	1996	APWA
617-1	Reinforced Concrete Retaining Wall Details	5 sheets	1996	APWA
618-1	Masonry Retaining Wall	3 sheets	1996	APWA
619-1	Reinforced Concrete Crib Wall	6 sheets	1996	APWA
620-1	Steel Crib Wall	7 sheets	1996	APWA
621-1	Reinforced Concrete Block Wall and Chain Link Fence Combination	2 sheets	1996	APWA
622-1	Concrete Block Slough Wall	1 of 1	1996	APWA
623-AG	Short Retaining Wall (Wood)	1 of 1	7/1/2004	AG
624-AG	Short Retaining Wall (Concrete)	1 of 1	7/1/2004	AG
625-AG	Retaining Wall Drainage	1 of 1	7/1/2004	AG
626-AG	Rock Wall	1 of 1	7/1/2004	AG

SUBSURFACE ACCESS

Number	Description	Sheet Number	Issue Date	Author
630-2	24-inch Manhole Frame and Cover	2 sheets	1996	APWA
631-2	27-inch Manhole Frame and Cover	2 sheets	1996	APWA
632-2	30-inch Manhole Frame and Cover	2 sheets	1996	APWA
633-3	36-inch Manhole Frame and Cover	2 sheets	1996	APWA
635-2	Steel Step	2 sheets	1996	APWA
636-1	Polypropylene - Plastic Step	2 sheets	1996	APWA
637-AG	Monument Well	1 of 1	10/14/2003	AG
638-AG	P.C.C. Collar	1 of 1	10/14/2003	AG

MISCELLANEOUS STRUCTURES

Number	Description	Sheet Number	Issue Date	Author
640-AG	Pedestrian Stairs, Handrails, and Handrails at Ramps	1 of 2	7/1/2004	AG
640-AG	Pedestrian Stairs, Handrails, and Handrails at Ramps	2 of 2	7/1/2004	AG
641-AG	Project Information Sign	1 of 1	10/14/2003	AG
642-AG	Mailbox Standard	1 of 1	10/14/2003	AG
643-AG	Sidewalk Sleeve	1 of 1	10/14/2003	AG
644-AG	6' Wood Fence	1 of 1	7/1/2004	AG
645-AG	Trash Enclosure	1 of 2	7/1/2004	AG
645-AG	Trash Enclosure	2 of 2	7/1/2004	AG
646-AG	Seat Wall Bulb-Out	1 of 2	7/1/2004	AG
646-AG	Seat Wall Bulb-Out	2 of 2	7/1/2004	AG

**Section 6
General Facilities
(continued)**

EROSION CONTROL

Number	Description	Sheet Number	Issue Date	Author
650-AG	Stabilized Construction Entrance	1 sheet	10/14/2003	AG
651-AG	Vehicle Tracking Pad	1 sheet	10/14/2003	AG
652-AG	Filter Fabric Fence	4 sheets	7/1/2004	AG
653-AG	Grass Swale	1 sheet	10/14/2003	AG
654-AG	Curb Inlet Barrier	1 sheet	10/14/2003	AG
655-AG	Inlet Diversion Berm	1 sheet	10/14/2003	AG
656-AG	Curb and Gutter Sediment Containment System	1 sheet	10/14/2003	AG
657-AG	Bale Barrier Installation	1 sheet	10/14/2003	AG
658-AG	Bale Barrier for Area Drains	1 sheet	10/14/2003	AG
659-AG	Rock Barrier for Area Drains	1 sheet	10/14/2003	AG
660-AG	Fiber Rolls	1 sheet	7/1/2004	AG
661-AG	Check Dam	1 sheet	7/1/2004	AG
662-AG	Slope Terraces	1 sheet	7/1/2004	AG
663-AG	Road Drainage	1 sheet	7/1/2004	AG
664-AG	Construction Dewatering	1 sheet	7/1/2004	AG

Section 7 Water Distribution Facilities

WATER SYSTEM MATERIALS

Number	Description	Sheet Number	Revision Date	Author
700-AG	Water System Materials (1" Water Service)	1 of 6	10/14/2003	AG
700-AG	Water System Materials (1-1/2" and 2" Water Service)	2 of 6	10/14/2003	AG
700-AG	Water System Materials (Air & Vacuum Relief Valve Assembly)	3 of 6	10/14/2003	AG
700-AG	Water System Materials (Water Valve and Valve Well)	4 of 6	10/14/2003	AG
700-AG	Water System Materials (Fire Hydrant Assembly)	5 of 6	10/14/2003	AG
700-AG	Water System Materials (Miscellaneous Water System Materials)	6 of 6	10/14/2003	AG

WATER SERVICES

Number	Description	Sheet Number	Revision Date	Author
710-AG	1" Water Service (Single Water Service)	1 of 2	10/14/2003	AG
710-AG	1" Water Service (Duplex Water Service)	2 of 2	10/14/2003	AG
711-AG	Water Service Manifold (For 5 of more 3/4" or 1" Services)	1 of 1	7/1/2004	AG
712-AG	1-1/2" & 2" Water Services	1 of 1	10/14/2003	AG
713-AG	1-1/2" & 2" Water Meter Bypass	1 of 1	10/14/2003	AG
714-AG	3" and Larger Water Services	1 of 1	10/14/2003	AG

WATER SYSTEM VALVES

Number	Description	Sheet Number	Revision Date	Author
720-AG	Water Valve and Valve Well	1 of 1	10/14/2003	AG
721-AG	Reduced Pressure Backflow Valve Assembly (2-1/2" to 8")	1 of 1	10/14/2003	AG
722-AG	Double Check Valve Assembly (4" and Larger)	1 of 1	10/14/2003	AG
723-AG	Butterfly Valve	1 of 1	10/14/2003	AG
724-AG	Air & Vacuum Relief Valve Assembly	1 of 1	10/14/2003	AG
725-AG	Valve Anchor Block	1 of 1	7/1/2004	AG

FIRE PROTECTION SERVICES

Number	Description	Sheet Number	Revision Date	Author
730-AG	Fire Hydrant Assembly and Location	1 of 2	10/14/2003	AG
730-AG	Fire Hydrant Assembly and Location	2 of 2	10/14/2003	AG
731-AG	Double Check Detector Checkwith FDC (4" and Larger)	1 of 1	7/1/2004	AG

MISCELLANEOUS

Number	Description	Sheet Number	Revision Date	Author
740-AG	Thrust Block Requirements	1 of 1	10/14/2003	AG
741-AG	Water Blow-Off Assembly	1 of 1	10/14/2003	AG
742-AG	Water Abandonment	1 of 1	7/1/2004	AG