

Section 3 FLOOD CONTROL AND STORM DRAIN FACILITIES

INDEX

<u>TITLE</u>	<u>AGENCY⁽¹⁾</u>	<u>NUMBER</u>	<u>COMMENTS</u>
<u>Catch Basin:</u>			
Curb Opening Catch Basin	APWA	300-2	Stencil or sign is required per Std. Detail 385.
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Grating Catch Basin – Alley (Longitudinal)	APWA	304-2	Stencil or sign is required per Std. Detail 385.
Grating Catch Basin – Alley (Transverse)	APWA	305-2	Stencil or sign is required per Std. Detail 385.
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Curb Opening Catch Basin with Manhole in Street.....	APWA	307-2	Stencil or sign is required per Std. Detail 385.
Monolithic Catch Basin Connection.....	APWA	308-1	
Catch Basin Reinforcement	APWA	309-1	
Catch Basin Face Plate Assembly and Protection Bar	APWA	310-2	
Frame and Grating for Catch Basins.....	APWA	311-2	Note 6 is revised to delete references to Std. Plans 301, 302 and 303.

<u>TITLE</u>	<u>AGENCY⁽¹⁾</u>	<u>NUMBER</u>	<u>COMMENTS</u>
Catch Basin Manhole Frame and Cover	APWA	312-2	Covers shall be cast with the letter "D" for storm drain. Agency identification is not required. For Note 6, inspections prior to shipment will not be required. A compliance certification delivered to the Engineer from the supplier will be acceptable.
Local Depressions at Catch Basins.....	COA	313	
Modifications for Side Opening Catch Basins.....	APWA	314-2	Delete rear culvert entrance from Case 1. Refer to Std. Detail 350 for rear culvert entrance detail.

Manholes and Junction Structures:

Manhole Pipe to Pipe Main Line ID=900 mm (36") or Larger	APWA	320-1	Manhole backfill from the top of pipe bedding to roadway subgrade shall be either sand compacted to 95% or structural backfill.
Manhole Pipe to Pipe (One or Both Main Line ID's 825mm (33") or Smaller.....	APWA	321-1	Manhole backfill from the top of pipe bedding to roadway subgrade shall be either sand compacted to 95% or structural backfill.
Manhole Pipe to Pipe (Large Side Inlet).....	APWA	322-1	Manhole backfill from the top of pipe bedding to roadway subgrade shall be either sand compacted to 95% or structural backfill. Delete 12" and 15" sizes from Table for Values of T on sheet 2. For Note 12b, "300 mm (12")" is modified to "450mm (18)".
Manhole – Concrete Box Storm Drain.....	APWA	323-1	
Manhole Shaft with Eccentric Reducer.....	APWA	324-1	

Manhole Shaft 900 mm (36") without Reducer	APWA	326-1	Steps shall apply to special manhole shaft with grade rings.
Manhole for Existing RCB	APWA	327-1	
Pressure Manhole Shaft with Eccentric Reducer	APWA	328-1	
Pressure Manhole Shaft and Pressure Plate Detail 914mm (36") without Reducer.....	APWA	329-1	
Manhole Shaft Safety Ledge	APWA	330-1	
Junction Structure – Pipe to Pipe Inlet ID ≥ 600 mm (24") or ID > ½ Main Line ID	APWA	331-2	Delete 12" and 15" sizes from Table for Values of T on sheet 1.
Junction Structure – Pipe to Pipe [ID ≤ 600 mm (24")].	APWA	332-1	Delete Note 7 and all references to CSP materials. This standard only applies to private storm drains (not public storm drains). Connection openings to existing facilities shall be core drilled.
Junction Structure – Pipe to RCB.....	APWA	333-1	Delete 12" and 15" sizes from Table on sheet 1.
Junction Structure – Pipe to RCB Inlet ID ≤ 750 mm (30")	APWA	334-1	Delete Note 2 and all references to CSP materials.
Pipe Connections to Existing Storm Drains	APWA	335-1	Delete Notes 4 and 5 and all references to CSP materials. This standard only applies to private storm drains (not public storm drains). Connection openings to existing facilities shall be core drilled.

Transition Structures:

Transition Structure Pipe to Pipe.....	APWA	340-1
Transition Structure Single RCB to Single RCB	APWA	341-1
Transition Structure RCB to Pipe	APWA	342-1
Transition Structure Single RCB to Double RCB.....	APWA	343-1

<u>TITLE</u>	<u>AGENCY⁽¹⁾</u>	<u>NUMBER</u>	<u>COMMENTS</u>
Transition Structure Double RCB to Double RCB	APWA	344-1	
Transition Structure Double RCB to Triple RCB	APWA	345-1	
Transition Structure Triple RCB to Triple RCB	APWA	346-1	

Inlets:

Private / On-Site Pipe Connection to Catch Basin	COA.....	350-B	
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Protection Barriers:

Sloped Protection Barrier	APWA	360-1	
Trash Rack (Inclined)	APWA	361-1	

Miscellaneous Drainage Facilities:

Concrete Collar for RCP 300 mm (12") through 1800 mm (72")	APWA	380-3 For Note 9, "525 mm (21")" is modified to "450 mm (18)".
Abandonment Seals for Manholes and Inlets	APWA	381-1	
Window Details for Multiple RCB Structures	APWA	382-1	
Velocity Control Ring Precast RCP Section..	APWA	383-1	
Energy Dissipator – Impact Basin with Vertical Baffle Wall	APWA	384-2	
Stencil and Sign for Drainage Inlet	COA.....	385	

On-Site Drainage Facilities:

Lot Grading and Drainage.....	COA.....	390	
Interceptor Drain	COA.....	391	
Terrace Drain	COA.....	392	
Down Drain	COA.....	393	
Down Drain Intersections and Outlets	COA.....	394	
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(1) APWA: American Public Works Association, Southern California Chapter – “Standard Plans for Public Works Construction” 1997 Edition w/1999 supplement.
COA: City of Anaheim Standard Details