

**SOUTHGATE WATER DISTRICT
WATER SYSTEM SPECIFICATIONS
SUPPLEMENT TO THE DENVER WATER DEPARTMENT
ENGINEERING STANDARDS**

**JUNE 13, 1995
REVISED MARCH 6, 2000**

TABLE OF CONTENTS

<u>CHAPTER 1 - GENERAL</u>		<u>PAGE NO.</u>
1.0	PURPOSE	1
1.0A	DISTRICT SERVICE AREA	1
1.01	AUTHORITY	1
1.03	REVISIONS	1
1.06	DEFINITION OF TERMS	2
1.07	ABBREVIATIONS	5
<u>SUPPLEMENT TO DWD CHAPTER 2 - MAIN EXTENSIONS</u>		<u>PAGE NO.</u>
2.0	GENERAL	6
2.07	WATER SYSTEM PLAN REQUIREMENTS	6
<u>SUPPLEMENT TO DWD CHAPTER 5 - SYSTEM DESIGN AND LAYOUT</u>		<u>PAGE NO.</u>
5.03	SIZING OF DISTRIBUTION MAINS	7
5.09	LAYOUT OF THE DISTRIBUTION SYSTEM	9
<u>SUPPLEMENT TO DWD CHAPTER 6 - MATERIALS</u>		<u>PAGE NO.</u>
6.01	GENERAL	12
6.04	SELECTION OF PIPE	12
6.06	GATE VALVES	12
6.07	PRESSURE REDUCING VALVE AND VAULT INSTALLATION	12
6.29	CONCRETE STRUCTURES - (ENCASEMENTS)	13
6.38	SERVICE LINES - (SERVICE CONNECTIONS)	13

SUPPLEMENT TO DWD CHAPTER 7 - EARTHWORK PAGE NO.

7.04	TRENCHING OPERATIONS - (LIMITS OF EXCAVATION)	14
7.09	FOUNDATIONS ON UNSTABLE SOIL	14
7.10	PIPE BEDDING	15
7.11	BACKFILL AND COMPACTION	17
7.12	CLEAN UP	18

SUPPLEMENT TO DWD CHAPTER 8 - PIPE INSTALLATION PAGE NO.

8.0	GENERAL CONSTRUCTION STANDARDS	19
8.1.0	REQUIRED SUBMITTALS	20
8.2.0	STOP WORK ORDERS	21
8.3.0	CURE OF DEFECTS	21
8.4.0	PRE-CONSTRUCTION	22
8.5.0	CONSTRUCTION PLANS	22
8.6.0	DEFECTIVE MATERIALS	22
8.7.0	DESIGN REVISIONS DURING CONSTRUCTION	22
8.8.0	CONSTRUCTION WATER	23
8.9.0	RECORD DRAWINGS	23
8.10.0	REPLACEMENT OF EXISTING STREET IMPROVEMENTS	23
8.11.0	SAFETY; TRAFFIC CONTROL	24
8.12.0	CONSTRUCTION OBSERVATION	24
8.13.0	GEOTECHNICAL OBSERVATION	25
8.14.0	FEES	25
8.15.0	IMPROVEMENTS AGREEMENT	25

**SOUTHGATE WATER DISTRICT
WATER SYSTEM SPECIFICATIONS
SUPPLEMENT TO THE DENVER WATER DEPARTMENT
ENGINEERING STANDARDS**

**JUNE 13, 1995
REVISED MARCH 6, 2000**

STANDARD CONSTRUCTION DRAWINGS

Sheet 5	Fire Hydrant Assembly
Sheet 5A	Valve and Fire Hydrant Location
Sheet 8	Standard Bedding for Water Lines
Sheet 8A	Special Bedding for Water Lines
Sheet 9	Blow-Off
Sheet 12	Air Release Valve and Vault
Sheet 15A	Direct Bury Butterfly Valve
Sheet 16	Kickblock
Sheet 25	Pipe Casing
Sheet 26	Utility Crossing
Sheet 27	Water Line Crossing Existing Sanitary Sewer
Sheet 28	Standard Steel Marker Post
Sheet 28A	Redwood Marker Post
Sheet 35	Vent Pipe
Sheet 37	Decorative Vent Pipe
Sheet 38	Pressure Reducing Valve and Vault
Sheet 51	Wall Clamp
Sheet 74	Gate Valve
Sheet 75	Aluminum Step
Sheet 76	Plastic Step
Sheet 77	24" Manhole Ring and Cover
Sheet 78	36" x 24" Double Ring and Cover
Sheet 79	Fire Hydrant Guards
Sheet 80	Wet Tap Connection
Sheet 81	Concrete Encasement

**SOUTHGATE WATER DISTRICT
WATER SYSTEM SPECIFICATIONS
SUPPLEMENT TO THE DENVER WATER DEPARTMENT
ENGINEERING STANDARDS**

**JUNE 13, 1995
REVISED MARCH 6, 2000**

APPENDIX

ITEM 1 -	Water System Plan Requirements Check List	I
ITEM 2 -	General Notes for Water System Plans	iv
ITEM 3 -	Improvements Agreement Form	viii