

## CROSS CONNECTION SECURITY PLAN

### Cross Connection Retention, Operations and Reporting Plan Sewerage and Water Board of New Orleans, Louisiana

The following document establishes the sewer collection system cross connection security plan for New Orleans, Louisiana. The retention, operations, and reporting plan impact the operational security of the cross connections and are included in this document.

Attached are Drawings #7887-S (sheets 1,2,3 & 4) revised on December 5, 1997 superseding all previous cross connection drawings and represent the current inventory of known cross connections. These maps reflect those locations where physical connections exist between the sewage and drainage collection system. They will be modified as new information on connections are discovered. "Exhibit A" revised October 16, 1997, includes all currently identified cross connections. "Exhibit B", revised October 16, 1997, reflects the list of retained cross connections. Information needed to prepare reporting on retained or used cross connections is kept in an electronic database along with scanned location maps and digital photographs. An example of the output is shown on "Exhibit C".

#### Security Plan

The Sewerage and Water Board of New Orleans will inspect retained sewer-drainage cross connections quarterly. Each cross connection installation will be examined and fitted with a security system which will prohibit unauthorized and inadvertent use of cross connections. The following security methods will be used in priority order:

- Welded access manhole or valve box covers
- Removed valve operating nuts
- Padlocked cabinets containing hydraulic valve actuators
- Keyed lockouts for electronically activated valves

Where possible, and as outlined in the consent decree, the Board will visually inspect valves and/or their discharge lines to verify that sewage has not been discharged through them since the last inspection. The valves will not be exercised during scheduled inspections, because of the potential for discharge of sewage into the drainage system. Valves will only be operated when diversion of sewage to the drainage system or Mississippi River is required to prevent loss of life, personal injury or significant property damage. Employees at the level of Sewage Pumping Station Supervisor or higher are authorized to order the

operation of a retained cross connection, and are responsible for insuring that:

- All affected Board divisions are notified of the operation of the cross connection.
- All necessary reporting forms relative to the operation of the cross connection valve and possible sewage overflow are completed.
- That cross connections are returned to the closed position and security mechanisms re-established once its use is no longer needed.
- Ensure that the operation of the retained cross connection is reported to EPA within 24 hours of initiation of use.

Valve inspections will include a review of the security system to ensure that it has not been compromised since the previous inspection and that the device is continuing to function properly. A report will be prepared for the U. S. Environmental Protection Agency outlining the conditions of the retained cross connections at the time of the inspections, as well as activity at the valve, if any. This report will be submitted as outlined in the consent decree.

CCSecPln.108

# CROSS CONNECTION INVENTORY

## "EXHIBIT A"

No.	LOCATION	No.	LOCATION
01	R.S. Palmyra & S. Broad	25	SPS 1 Discharge Chamber
02	SPS 15 Discharge Chamber	26	Constance & Bellecastle
03	Palmyra & Jeff Davis	27	Constance & Upperline
04	L.S. Broad & Perdido	28	Cadiz & Constance
05	S. Broad & Gravier	29	Constance & Milan
06	Gravier & S. Galvez	30	Gen. Taylor & Pitt
07	Orleans & N. Solomon	31	Pitt & Cadiz
08	Cortez & Orleans	32	Upperline & Pitt
09	Palmyra & S. Carrollton	33	Cadiz & Liberty
10	S. Dorgenois @ M.L. King Canal	34	Milan & Liberty
11	Walmsley & S. Rendon	35	Gen. Taylor & S. Liberty
12	Gen. Pershing & Willow	36	Gen. Taylor & Constance
13	Napoleon & S. Johnson	37	SPS 14 yard above ground
14	Robert & Willow	38	Pitt & Milan
15	Octavia & Cucullu	39	Constance & Aline
16	Clara & Nashville	40	Louisiana Ave. & S. Liberty
17	Nashville & Willow	41	M. L. King & Clara
18	State & S. Robertson	42	Third & Clara
19	Calhoun & S. Robertson	43	Third & Coliseum
20	Lowerline & Burthe	44	St. Charles & Phillip
21	Prytania & Lowerline	45	St. Charles & Josephine
22	Webster & Constance	46	Dryades & Euterpe
23	Dante & Birch	47	Carondelet & Julia
24	West Side of Lowerline @ Cohn	48	St. Louis & N. Robertson

No.	LOCATION	No.	LOCATION
49	St. Louis & N. Robertson	75	N. Tonti & Jourdan Ave.
50	Claiborne Side of SPS A	76	Florida Ave. @ Metropolitan
51	Broad Canal @ Toulouse	77	Florida Ave. @ Elysian Fields
52	Mystery & Maurepas	78	Gentilly & Florida Avenue
53	Crete & Maurepas	79	Florida Ave @ Paris
54	St. Bernard @ Rousselin	80	Paris Ave. & Prentiss Ave.
55	Annette & Florida Ave.	81	Florida @ Gibson
56	St. Roch & Florida U.S.	82	Orleans & Florida
57	St. Roch & Florida L.S.	83	Opposite side Orleans & Florida
58	N. Tonti & Almonaster	84	L.S. Orleans & Florida
59	Music & N. Claiborne	85	Peoples & Abundance
60	N. Rampart & Elysian Flds.	86	Vicksburg & Florida (incorrectly marked as 86A on map)
61	N. Villere @ Alvar	86A	Vicksburg & Florida
62	Jourdan & N. Rampart	87	Canal & Filmore, Lakeside Neut. Gnd.
63	Jourdan & St. Claude	88	Loma Linda & DPS 6
64	Industrial Canal Locks	89	Alfred & Florida Avenue
65	Opelousas & Vallette	90	Peoples & Chef Menteur Hwy
66	Diana & Vallette	91	Louisa & Mirabeau
67	St. Claude @ St. Ferdinand	92	Press & Mirabeau L.S.
68	Leboeuf & Lamarque	93	Press & Mirabeau R.S.
69	Whitney & Homer	94	Mirabeau & Montegut L.S.
70	Hendee & Diana	95	Mirabeau & Montegut R.S.
71	Whitney & Diana	96	Mirabeau & Felician L.S.
72	N. Miro & Alvar	97	Mirabeau & Felician R.S.
73	N. Miro & Alvar	98	Mirabeau & Kendall L.S.
74	N. Tonti & Tupelo	99	Mirabeau & Kendall R.S.

No.	LOCATION	No.	LOCATION
100	Mirabeau & Metropolitan L.S.	126	Westchester & Carlisle
101	Mirabeau & Metropolitan R.S.	127	Memorial Park & Garden Oaks
102	Mirabeau & Louisa R.S.	128	Florence & Donner St.
103	Mirabeau & Piety L.S.	129	Country Club Dr. & Ave "C"
104	Mirabeau & Piety R.S.	130	Fleur de Lis & Harney St. L.S.
105	Mirabeau & Desire L.S.	131	37 <sup>th</sup> & Fleur de Lis
106	Mirabeau & Desire R.S.	132	N. Galvez near Iberville
107	Mirabeau & Gallier L.S.	133	Chef Menteur Hwy & Dodt St.
108	Mirabeau & Gallier R.S.	134	Wilson & Dwyer Rd.
109	Mirabeau & Congress L.S.	135	Berg & Morrison Rd.
110	Mirabeau & Congress R.S.	136	Weber & Morrison Rd.
111	Mirabeau & Pauline L.S.	137	Burke St. & Morrison Rd.
112	Mirabeau & Pauline R.S.	138	Lawrence & Morrison Rd.
113	Stemway & Dwyer	139	Lamb & Morrison Rd.
114	Foch & Dwyer	140	Charbonnet & N. Galvez St.
115	America & Dwyer R.S.	141	Sandra-Gen.DeGaulle to Murl
116	Joffe (westlake?) & Dwyer	142	Chicksaw & Louisa Sts.
117	Gawain & Dwyer Rd.	143	Old Gentilly Rd. & Desire St.
118	Ceris & Dwyer Rd.	144	Michoud Southside of R.R. Tracks
119	Warren & Dwyer Rd.	145	Lucrino Dr. & Pompeii
120	Papania & Dwyer Rd.	146	Station Yard - Can't locate
121	Whitney & Socrates (SFM to Canal)	147	Almonaster & Rocheblave (Westside)
122	Holiday & Herschel	148	Almonaster & Rocheblave (Rightside)
123	Erickson & Huntlee St.	149	Gen. DeGaulle & Holiday
124	Berkley & Eton St.	150	Front of Station
125	Tullis & Blair	151	Alcee Fortier Blvd. @ Chef Menteur Hwy.

No.	LOCATION	No.	LOCATION
152	L.S. Mirabeau & Louisa	178	Metropolitan & Abundance
153	Marconi & Snipe	179	Ligget & Morrison
154	L.S. Foliage & Marconi	180	1400 Lennox
155	Robert E. Lee & Marconi	181	Bullard @ Midpoint
156	Azalea & Marconi	182	@ Pumping Station (AMID)
157	Flanders & Gen. Meyers	183	Brairwood & Morrison
158	Elizardi & Lawrence St.	184	Shorewood & Morrison
159	Chef Menteur Hwy. & Desire R.S.	185	Willowbrook & Acadiana
160	Thalia & Dorgenois (Not a cross connection - sewer to sewer)	186	Michoud & Oak Island Apts.
161	Florida Ave. @ Orleans Ave. to Bayou St. John	187	Behind Station Outside Fence
162	Miro/Port to Lafayette L.S.	188	Congress Dr. Mexico-Madrid
163	N. Johnson & Alvar	189	Diana & Pacific
164	L.S. Alvar & N. Galvez	190	Diana & Atlantic (SFM to River)
165	R.S. Broad & Perdido	A1	Holiday & Patterson
166	Magnolia & M.L. King	A2	Huntlee & Erikson
167	S. Robertson & M.L. King	A3	Eton & Berkley
168	St. Roch & Mirabeau	A4	Carlisle & Westchester
169	Clara & Julia	A5	Tullis & Blair
170	L.S. Chef Menteur & Louisa	B1	Douglas & Forstall (Westside)
171	Old Spanish Trail & Alba	B2	Douglas & Forstall (Eastside)
172	Dearmas & Pacific	D5	Inside Station "D"
173	Catherine St. & Gentilly St.	D6	Inside Station "D"
174	Tall Pines Dr. & Tall Timbers	D7	Inside Station "D"
175	Outside Station Yd.	DSG	Station "D" Sluice Gate
176	Michoud Behind the Station	DPA C	Peoples Ave @ Florida Ave. Canal
177	Foch & Dwyer	DZ	Inside Station "D"

No.	LOCATION	No.	LOCATION
X1	France & Florida @ Florida Canal		
X2	Lake Side Lake Forest near Read		
X3	Crowder @ Lake Forest		
X4	Station Yard (Woodland SPS)		
X5	Station Discharge Chamber (SPS 03)		
X6	Station Yard (Forest Isle SPS)		
X7	Shalimar & Dwyer		
X8	None		
X9	Station Discharge Chamber		
X10	Old SPS #9 Discharge Chamber		
X11	Jourdan Ave. & St. Claude St.		
X12	Florida Canal & Eastside Industrial Canal		
X13	Alcee Fortier & Bayou Michoud		
X14	Southwest Corner of Dwyer & Michoud		
X15	Memphis & Florida		
X16	Simpson & Norman Canal		
X17	Station "A" - St. Ann & Marais		
X18	Station "A" - St. Ann & Treme		
X19	Station "A" - St. Ann & Treme		
X20	Station "A" - St. Ann & Treme		

# CROSS CONNECTION RETENTION

## "EXHIBIT B"

No.	LOCATION	No.	LOCATION
01	R.S. Palmyra & S. Broad	80	Paris Ave. & Prentiss Ave.
02	SPS 15 Discharge Chamber	81	Florida & Gibson
03	Palmyra & Jeff Davis	85	Peoples & Abundance
07	Orleans & N. Solomon	86	Vicksburg & Florida
09	Palmyra & S. Carrollton	87	Canal & Filmore, Lakeside Neut. Gnd.
16	Clara & Nashville	90	Peoples & Chef Hwy.
24	Westside of Lowerline @ Cohn	91	Louisa & Mirabeau
37	SPS 14 yard above ground	92	Press & Mirabeau L.S.
42	Third & Clara	115	America & Dwyer R.S.
48	St. Louis & N. Robertson	117	Gawain & Dwyer Rd.
49	St. Louis & N. Robertson	118	Ceris & Dwyer Rd.
51	Broad Canal @ Toulouse	119	Warren & Dwyer Rd.
55	Annette & Florida Ave.	120	Papania & Dwyer Rd.
61	N. Villere @ Alvar	121	Whitney & Socrates (SFM to Canal)
63	Jourdan & St. Claude	122	Holiday & Herschel
66	Diana & Vallette	123	Erickson & Huntlee St.
67	St. Claude @ St. Ferdinand	124	Berkley & Eton St.
72	N. Miro & Alvar	125	Tullis & Blair
73	N. Miro & Alvar	126	Westchester & Carlisle
74	N. Tonti & Tupelo	127	Memorial Park & Garden Oaks
75	N. Tonti & Jourdan Ave.	128	Florence & Danner St.
76	Florida Ave. @ Metropolitan	129	Country Club Dr. & Ave "C"
77	Florida Ave. @ Elysian Fields	130	Fleur de Lis & Harney St. L.S.
79	Florida Ave. @ Paris Ave.	131	37 <sup>th</sup> & Fleur de Lis



No.	LOCATION	No.	LOCATION
132	N. Galvez near Iberville	180	1400 Lennox
133	Chef Menteur Hwy & Dotd St.	181	Bullard @ Midpoint
134	Wilson & Dwyer Rd.	182	@ Pumping Station (AMID)
135	Berg & Morrison Rd.	183	Brairwood & Morrison
136	Weber & Morrison Rd.	184	Shorewood & Morrison
137	Burke St. & Morrison Rd.	185	Willowbrook & Acadiana
138	Lawrence & Morrison Rd.	186	Michoud & Oak Island Apts.
139	Lamb & Morrison Rd.	187	Behind Station Outside Fence
140	Charbonnet & N. Galvez St.	189	Diana & Pacific
141	Sandra-Gen.DeGaulle to Murl	190	Diana & Atlantic (SFM to River)
142	Chicksaw & Louisa Sts.	A1	Holiday & Patterson
143	Old Gentilly Rd. & Desire St.	A2	Huntlee & Erikson
147	Almonaster & Rocheblave (Westside)	A3	Eton & Berkley
148	Almonaster & Rocheblave (Eastside)	A4	Carlisle & Westchester
149	Gen. DeGaulle & Holiday	A5	Tullis & Blair
150	Front of Station	B1	Douglas & Forstall (Westside)
151	Alcee Fortier Blvd. @ Chef Menteur Hwy.	B2	Douglas & Forstall (Eastside)
158	Elizardi & Lawrence St.	D5	Inside Station "D"
170	L.S. Chef Menteur & Louisa	D7	Inside Station "D"
171	Old Spanish Trail & Alba	DSG	Station "D" Sluice Gate
173	Catherine St. & Gentilly St.	DPA C	Peoples Ave @ Florida Ave. Canal
174	Tall Pines Dr. & Tall Timbers	DZ	Inside Station "D"
175	Outside Station Yard	X1	France & Florida @ Florida Canal
176	Behind the Station	X2	Lake Side Lake Forest near Read
178	Metropolitan & Abundance	X3	Crowder @ Lake Forest
179	Ligget & Morrison	X5	Station Discharge Chamber (SPS 03)

No.	LOCATION	No.	LOCATION
X7	Shalimar & Dwyer		
X9	Station Discharge Chamber		
X11	Jourdan Ave. & St. Claude St.		
X12	Florida Canal & Eastside Industrial Canal		
X13	Alcee Fortier & Bayou Michoud (SFM to Bayou)		
X14	Southwest Corner of Dwyer & Michoud		
X15	Memphis & Florida		
X16	Simpson & Norman Canal		
X17	Station "A" - St. Ann & Marais		
X18	Station "A" - St. Ann & Treme		
X19	Station "A" - St. Ann & Treme		
X20	Station "A" - St. Ann & Treme		

# SEWERAGE AND WATER BOARD OF NEW ORLEANS

## RETAINED CROSS CONNECTION REPORT

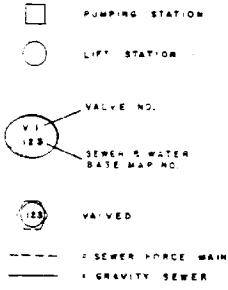
VALVE # 119      RJN VALVE # V1      MAP # 474      DRAWING # 5311-G-3  
 BOOK # 3378 & 3388      PAGE # 45 & 41      CONT. # \_\_\_\_\_  
 VALVE LOCATION: Warren & Dwyer Rd.  
 AFFECTED STATION: LAKELAND TERRACE SPS  
 VALVE SIZE: 12"      VALVE TURNS: \_\_\_\_\_      LENGTH OF STEM: \_\_\_\_\_  
 VALVE OPERABLE: YES      RETENTION JUSTIFICATION: 2  
 PIPE MATERIAL: \_\_\_\_\_      SECURED: YES \_\_\_\_\_ NO \_\_\_\_\_  
 DESCRIPTION: Gravity bypass for Lakeland Terrace SPS collection system  
 OTHER: Valve broken closed — Repair work order sent in.  
 QUARTERLY INSPECTION RESPONSIBILITY:      OPERATIONS \_\_\_\_\_      NETWORKS \_\_\_\_\_



INSPECTED BY: _____	INSPECTION DATE: _____
COMMENTS:	

Exhibit C

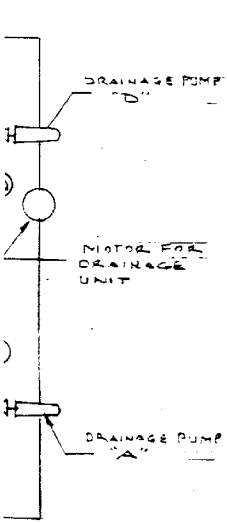
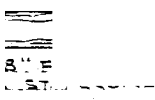
JAS MAIN CROSSING  
 DBB 7823-1



- AC = ASBESTOS CEMENT
- AP = AIR RELEASE
- BY = BALL VALVE
- C OR PC = PRESTRESSED CONCRETE
- CI = CAST IRON
- D OR DR = DRAIN
- GV = GATE VALVE
- KV = KNUIFE VALVE
- LK = LEFT HANDED
- OP = OPERATED
- PVC = POLYVINYLCHLORIDE
- PV = PLUG VALVE
- S OR STL = STEEL
- V = VALVE

ORIGINAL MAPS ON FILE AT  
 SEWERAGE AND WATER BOARD:

625 St. Joseph Street, New Orleans, LA 70165  
 Director's Office: Room 233  
 Gen. Superintendent's Office: Room 311  
 Purchasing Department: Room 133  
8800 S. Claiborne Avenue, New Orleans, LA 70118  
 Network Engineering Department



	12-5-97	ADDED VALVE DPAC	
	7-11-97	REVISED VALVE DESIGNATIONS	
REV.	DATE	DESCRIPTION	BY

**SEWERAGE AND WATER BOARD  
 OF NEW ORLEANS**

**MAJOR SEWER MAINS  
 WITH RETAINED CROSS CONNECTIONS**

**METROPOLITAN N. O.**

DR	SMP		
TRC			
CK		GENERAL SUPERINTENDENT	
AP			
SCALE	1" = 100'	DWG. No. 7887 - S	
DATE	11-11-97	SET NO	SHEET NO OF 4

DR = DRAIN  
 GATE VALVE  
 LEFT HANDED  
 OPERATED  
 PLUG VALVE  
 VALVE  
 KNIFE VALVE  
 AIR RELEASE  
 BALL VALVE

= PUMPING STATION  
 = LIFT STATION  
 - - - - = SEWER FORCE MAIN  
 ——— = GRAVITY SEWER

AC = ASS CEM  
 C OR PC = PRESTRESSED CONC.  
 CI = CAST IRON  
 PVC = POLYVINYLCHLORIDE  
 S OR STL = STEEL  
 5000 = CONTRACT NO  
 = LEVEL

ORIGINAL MAPS ON FILE AT  
 SEWERAGE AND WATER BOARD:  
  
 625 St. Joseph Street, New Orleans, LA 70165  
 Director's Office: Room 233  
 Gen. Superintendent's Office: Room 311  
 Purchasing Department: Room 133  
 8800 S. Claiborne Avenue, New Orleans, LA 70118  
 Network Engineering Department

	7-11-97	ADDED VALVE DESIGNATIONS	
REV.	DATE	DESCRIPTION	BY
<b>SEWERAGE AND WATER BOARD OF NEW ORLEANS</b>			
<b>MAJOR SEWER MAINS WITH RETAINED CROSS CONNECTIONS</b>			
<b>EAST GENTILLY</b>			
DR. SHP			
TWC			
CK.	GENERAL SUPERINTENDENT		
AF	<b>DWG. NO. 7887-S</b>		
SCALE	1" = 200'	DATE	SHEET NO. 2

2

M

5

2

1

ORIGINAL MAPS ON FILE AT  
SEWERAGE AND WATER BOARD:

625 St. Joseph Street, New Orleans, LA 70165  
 Director's Office: Room 233  
 Gen. Superintendent's Office: Room 311  
 Purchasing Department: Room 133  
 8800 S. Claiborne Avenue, New Orleans, LA 70118  
 Network Engineering Department

	7-11-97	ADDED VALVE DESIGNATIONS	
REV.	DATE	DESCRIPTION	BY
<b>SEWERAGE AND WATER BOARD OF NEW ORLEANS</b>			
<b>MAJOR SEWER MAINS WITH RETAINED CROSS CONNECTIONS</b>			
<b>N. O. EAST</b>			
DR. 344	_____ GENERAL SUPERINTENDENT  <b>DWG. No. 7887-S</b>		
TRC			
CK			
AP.			
SCALE 1" = 2000'			
DATE 9-21-89	SET NO.	SHEET NO. 3 OF 4	

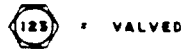
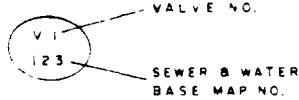
L

M

ORIGINAL MAPS ON FILE AT  
SEWERAGE AND WATER BOARD:

625 St. Joseph Street, New Orleans, LA 70165  
 Director's Office: Room 233  
 Gen. Superintendent's Office: Room 311  
 Purchasing Department: Room 133  
 8800 S. Claiborne Avenue, New Orleans, LA 70118  
 Network Engineering Department

SB CEM  
 C = PRESTRESSED CONC  
 1ST IRON  
 POLY-VINYLCHLORIDE  
 EL  
 CONTRACT NO.  
 LEVEE  
 RR TRACKS



ALL VALVES ARE GATE VALVES UNLESS OTHERWISE NOTED.  
 ON PLUG VALVES, USE INDICATOR TO DETERMINE POSITION OF VALVE.  
 VALVES MAY CLOSE CLOCKWISE

	7-11-97	ADDED VALVE DESIGNATIONS	
REV.	DATE	DESCRIPTION	BY
<b>SEWERAGE AND WATER BOARD OF NEW ORLEANS</b>			
<b>MAJOR SEWER MAINS WITH RETAINED CROSS CONNECTIONS</b>			
<b>ALGIERS</b>			
DR. SHP			
TRC			
CK.	GENERAL SUPERINTENDENT		
SCALE 1" = 1000'	<b>DWG. No. 7887-S</b>		
DATE 8-2-99	SET NO.	SHEET NO.	4 OF 4

3

2

1

OK 34.2