



RESOURCES AND ECONOMIC
DEVELOPMENT DIVISION

089215
~~4-12-13~~
089215
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B-130617

RELEASED

MAR 4 1974

74-0301

3 addressees

The Honorable Joseph W. Oakley,
House of Representatives



LM089215

Dear Mr. Oakley:

Pursuant to your request of February 7, 1974, and subsequent
agreement, we are enclosing information on contracts for rail rapid
transit projects in Atlanta, Georgia; San Francisco, California;
and Washington, D.C.

As agreed, we have not verified the completeness or accuracy
of the information collected from the three transit systems. This
fact should be considered in any use made of this material.

We are also forwarding this information today to Congressmen
Andrew Young, Fortney H. Stark, Jr., and Stewart B. McKinney.

Sincerely yours,

Henry Eschwege

Henry Eschwege
Director

Enclosures - 3

904390
089215
BEST DOCUMENT AVAILABLE

Contract No. and date	Name of contractor	General description of contract task	Contract completion date		Contract cost	
			Original	Actual or currently projected	Original (millions)	Actual or currently projected (millions)
1K0013 5/12/66	Massman Const.	Subway - 21st to 24th, Oakland	June 29, 1968	April 10, 1969	\$ 4,064	\$ 4,148
1K0014 6/9/66	McLean-Grove	12th St. Sta. to Madison St., Tunnel	Aug. 20, 1968	Aug. 28, 1969	7,934	8,097
1K0015 11/10/66	Early-Winston	19th St. Sta. Shell	Nov. 4, 1969	Feb. 26, 1970	14,988	16,046
1K0016 12/22/66	Perini et al	12th St. Sta. Shell	Oct. 21, 1969	Nov. 20, 1969	19,429	20,194
1K0051 12/9/65	Fruin-Colnon	Fallon St. to 7th Ave., Oakland	Aug. 21, 1969	Feb. 9, 1968	4,381	4,436
1K0061 9/28/67	Gordon Ball	Oakland Wye to Jefferson St.	Mar. 14, 1970	April 9, 1970	15,706	15,931
1K0071 5/11/67	Rothschild & Raffin	Lake Merritt Sta. Shell & Adm. Footing	July 27, 1969	Nov. 13, 1969	6,043	6,538
1K0073 12/11/69	Rothschild & Raffin	Admin. Bldg.	May 10, 1971	Dec. 9, 1971	2,838	3,126
1C1011 6/6/69	Midland Ind. Elect.	Track Elect. - C001 - C018	May 24, 1971	April 12, 1973	2,879	3,478
1M0011 3/9/67	Kiewit & Traylor	16th St. to 23d St., S. F.--Subway	Sept. 2, 1969	Sept. 25, 1969	12,735	12,804
1M0012 11/9/67	Rothschild & Raffin	16th St. Sta. Shell	June 8, 1970	Aug. 13, 1970	6,116	6,383
1M0013 11/9/67	" " "	24th St. Sta. Shell	May 11, 1970	June 23, 1970	5,811	6,010
1M0031 4/27/67	Morrison et al	24th St. to Randall St., S. F., Subway	Sept. 22, 1969	Dec. 11, 1970	11,679	11,604
1M0041 9/8/67	S & M Const., Inc.	Randall St. to Glen Park Sta., S. F.	April 14, 1970	Aug. 13, 1970	9,357	9,662
1M0042 12/14/67	P. Kiewit Sons	Glen Park Sta. to Santa Rosa Ave., Subway	Dec. 6, 1969	Dec. 11, 1969	4,966	4,738
1M0043 6/25/68	" " "	Glen Park Sta. Shell	June 1, 1970	June 25, 1970	3,424	3,566
1M0051 10/22/68	Gordon Ball	Balboa Sta. Shell & Line	Sept. 11, 1970	Nov. 12, 1970	8,574	8,881
1M0061 2/28/69	Hensen Phelps	Modoc St. to Crystal St. Line	Aug. 3, 1970	April 8, 1971	3,075	3,069

Contract No. and date	Name of contractor	General description of contract task	Contract completion date		Contract cost	
			Original	Actual or currently projected	Original (millions)	Actual or currently projected (millions)
1R0050						
11/13/69	Shea Co., Inc.	Ashby Sta. Shell	June 5, 1971	Jan. 27, 1972	\$ 4,331	\$ 4,682
1R0051						
8/11/66	Haas & Haynie Corp.	Berkeley Sta. Shell	Jan. 8, 1969	Mar. 27, 1969	5,978	6,150
1R0052						
10/13/66	Fruin-Colnon	Berkeley South, Subway	Mar. 30, 1969	July 25, 1968	5,936	5,916
1R0053						
10/13/66	Shea-Macco	Berkeley North, Subway	May 5, 1969	July 3, 1969	7,354	7,883
1F0054						
7/29/68	Shea	Berkeley/Oakland to Ashby Station	Aug. 24, 1970	Aug. 13, 1970	3,782	3,933
1R0057						
5/28/68	Fruin-Colnon	Calif. St. to No. Berkeley Sta.	April 14, 1970	April 9, 1970	3,916	3,890
1R0081						
4/28/66	D. M. Drake Co.	Garfield Ave. to Knott Blvd.	Jan. 15, 1968	June 27, 1968	4,795	4,822
1R0051						
6/18/68	Fruin-Colnon	Knott Blvd. to 20th St.	Aug. 24, 1970	Aug. 13, 1970	2,954	3,577
1S0101						
8/25/69	Rothschild & Raffin	Richmond yard & line	May 25, 1971	June 8, 1972	4,032	4,257
1S0011						
5/25/67	Ball, Granite, Shea	Subway Montgomery to Powell St.	April 13, 1970	Sept. 10, 1970	9,267	9,302
1S0012						
5/25/67	Willston, Drake, Early	Montgomery St. Sta. Shell	Sept. 14, 1970	Oct. 8, 1970	14,177	14,872
1S0013						
6/28/67	Ball, Granite, Shea	Powell St. Sta. Shell	April 10, 1971	Oct. 28, 1971	16,551	16,114
1S0021						
6/28/67	Delewere Corp.	Subway, Powell St. to Civ. Center	March 2, 1970	April 8, 1971	10,467	11,379
1S0022						
10/13/66	Morrison et al	Civ. Center Sta. to 16th St. Sta.	March 24, 1970	May 14, 1970	17,764	18,120
1S0023						
4/27/67	McClellan-Grove Co.	Civ. Center Sta. Shell	Jan. 25, 1970	June 3, 1971	18,266	20,634
1S0024						
8/5/70	P. Kiewit	Van Ness Sta. Shell & Tunnel Const.	March 9, 1973	Sept. 25, 1973	10,732	11,048
1S0031						
5/28/70	Fruin-Colnon Corp.	Van Ness Sta. to Duboce Ave.	Dec. 9, 1972	Sept. 27, 1973	10,967	12,039

BEST DOCUMENT AVAILABLE

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			<u>Original</u>	<u>Actual or currently projected</u>	<u>Original (millions)</u>	<u>Actual or currently projected (millions)</u>
180032						
18/13/72	Fruin-Colmon Corp.	Duboce Ave. to Sanchez St. & Church Sta. Sh.	May 6, 1975	not available	\$10,056	\$ 10,050
180033						
12/14/72	" " "	Church Sta. to Twin Pks. and Castro Sta. Shell	July 19, 1975	not available	12,181	12,192
180041						
6/74	To be awarded	West Portal Sta. & Line	-	Oct. 1976	5,735	5,735
180051						
1/17/69	Morrison-Knudsen	Embarcadero Sta. Shell & Crossover	Dec. 4, 1971	Nov. 9, 1972	20,042	22,347
181011						
2/12/70	American Cont., Inc.	Track Electrification - K006 - M007	Mar. 20, 1972	June 21, 1973	3,140	4,170
183011						
6/11/70	Rothschild & Raffin	Montgomery St. Sta. Finish	Nov. 1, 1971	May 25, 1972	3,058	3,172
183012						
6/11/70	" "	Powell St. Station "	Jan. 3, 1972	Sept. 14, 1972	3,036	3,173
183014						
6/1/71	H. J. Olsen, Inc.	Powell St. Sta., Mez. ext.	April 17, 1973	Oct. 25, 1973	5,003	5,271
183051						
4/26/73	H. J. Olsen, Inc.	Embarcadero Sta. Finish	Nov. 8, 1975	Nov. 8, 1975	14,094	14,359
183021						
7/9/70	Christensen & Foster	Civ. Center Sta. Finish	Jan. 10, 1972	Sept. 14, 1972	3,028	3,232
170011						
1/28/66	Trans Bay Const.	Tube & S. F. Vent Bldg.	Oct. 9, 1969	Sept. 25, 1969	89,875	94,008
170013						
12/12/67	American Cont.	Elect. & Mech. Trans Bay tube	June 22, 1970	April 22, 1971	2,939	3,143
172011						
3/23/67	Westinghouse	Train Control	Jan. 17, 1971	not available	28,800	39,764
174481						
4/22/68	Dravo Corp.	Track work, K007-A007, R001-K001	Aug. 18, 1969	Oct. 8, 1970	8,769	11,588
174482						
6/30/69	" "	Track work, C001-C008	Aug. 16, 1971	Mar. 9, 1972	6,896	9,529
174483						
2/20/70	Dravo, Gordon Ball	" " , K006-M007	July 19, 1971	Dec. 9, 1971	8,543	9,519
174487						
10/30/69	A. Smith	" " , R--2-R010	March 22, 1971	June 8, 1972	5,815	6,510

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124552						
10/10/68	Westinghouse	Escalator II	Aug. 30, 1972	not available	\$ 2,183	\$ 3,036
124791						
6/27/68	IBM	Fare Collection	Dec. 20, 1971	not available	5,450	7,210
221011						
12/12/67	Gen. Elect.	Substation Equipment	April 5, 1971	April 5, 1971	5,099	6,710
221011						
11/15/67	Kaiser Alum.	1,000 volt D. C. contact rail	Oct. 25, 1971	Oct. 25, 1971	8,477	9,021
224002						
5/17/65	Kaiser Steel	Tunnel liners systwide	Feb. 28, 1972	Feb. 28, 1972	27,323	27,705
224002						
7/3/69	Rohr Corp.	Transit vehicle	June 5, 1972	not available	66,708	162,124
221016						
1/10/74	Gen. Elect.	Substation equip. cap. increase	March 31, 1975	March 31, 1975	3,463	3,463
100011						
2/9/67	Gordon Ball	Rockridge Sta. Track & Platform Struct. & Aerial Struct.	Jan. 15, 1970	March 6, 1970	6,414	6,607
180011						
-	Guy Atkinson Co.	McArthur Sta. Shell & Line	March 3, 1969	Aug. 12, 1969	6,215	6,561
1C0051						
6/17/67	Gordon Ball	Berkeley Hills Tunnel to Acalanes Rs.	April 23, 1970	May 15, 1970	8,600	8,915
1C0061						
9/11/67	P. Kiewit & Sons	Lafayette to Hillcrest Dr., Walnut Creek	July 28, 1969	April 8, 1971	9,100	11,774
1A0062						
6/6/67	Stolte, Inc.	Five (5) Grade Separation Struct., Hayward	Sept. 30, 1968	May 22, 1969	2,983	3,000
					<u>\$774,669</u>	<u>\$921,837</u>

BEST DOCUMENT AVAILABLE

SAN FRANCISCO BAY AREA RAPID TRANSIT DISTRICT

Information on Major Contracts
as of October 1973

Contract No. and date	Name of contractor	General description of contract task	Contract completion date		Contract cost	
			Original	Actual or currently projected	Original	Actual or currently projected
					(millions)	(millions)
LA0011	Stolte, Inc.	7th/8th Ave. to 38th Ave., Oakland	June 4, 1968	April 10, 1969	\$ 4,511	\$ 4,790
8/11/66						
LA0021	Stolte, Inc.	38th Ave. to 81st Ave., Oakland	June 4, 1968	April 10, 1969	5,419	5,589
8/11/66						
LA0031	Stolte, Inc.	81st Ave. to Oakland--San Leandro	Mar. 30, 1968	Mar. 27, 1969	4,149	4,257
5/26/66						
LA0041	Stolte, Inc.	Oakland--San Leandro to Halcyon	May 18, 1968	Mar. 27, 1969	6,426	6,468
5/26/66						
LA0051	Stolte, Inc.	Ashland Ave. to "C" Ct., Hayward	Mar. 7, 1968	Aug. 14, 1969	5,126	5,503
9/5/66						
LA0077	Muni Track Const.	Test Track, Hayward	Aug. 1, 1975	Oct. 1975	4,968	4,968
1/25/74						
LA0081	Oleas, Inc.	Whipple Rd. to Miles Blvd., Union City	Feb. 24, 1971	July 14, 1970	2,841	3,034
8/6/69						
LA1011	Newbery Elect. Corp.	Electrification - "A" line	Sept. 11, 1969	Jan. 14, 1971	3,025	4,558
2/25/68						
130021	Massman-Johnson	Subway - Maritime St. to Oakland, Vent	Dec. 23, 1968	Sept. 25, 1969	6,230	6,249
2/16/67						
LB0031	Perini Corp.	Subway - Spear St. to San Fran., Vent	Nov. 10, 1969	Mar. 12, 1970	14,624	15,022
1/11/68						
LC0011	Shea-Kaiser, Inc.	Berkeley Hills Tunnel	Dec. 28, 1968	Jan. 23, 1969	30,958	31,633
2/11/65						
LC0071	Polich-Benedict	Hillcrest to Parkside	Dec. 15, 1969	May 14, 1970	3,648	3,640
3/14/68						
LC0081	H. Phelps	Concord Sta. & Line	Oct. 17, 1972	Mar. 8, 1973	4,251	4,779
12/10/70						

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SAN FRANCISCO BAY AREA RAPID TRANSIT DISTRICT D. 0146
RAIL RAPID TRANSIT CONTRACTS

Total cost--all contracts as of October 1, 1973	\$1,522 million
Total cost--all contracts listed in this enclosure (\$3 million or more)	\$ 922 million
Percentage of listed contracts to total contracts	61

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
RAIL RAPID TRANSIT CONTRACTS

C 264

Total cost -- all contracts as of February 7, 1974	\$1,371 million
Total cost -- all contracts listed in this enclosure (\$1 million or more)	\$1,161 million
Percentage of listed contracts to total contracts	85

BEST DOCUMENT AVAILABLE

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

INFORMATION ON MAJOR CONTRACTS

AS OF FEBRUARY 1974

<u>Contract number and date</u>	<u>Name of contractor</u>	<u>General description of contract task</u>	<u>Contract completion date</u>		<u>Contract cost</u>			
			<u>Original</u>	<u>Actual or currently projected</u>	<u>Original</u>	<u>Actual or currently projected</u>		
<u>Line and Station Construction</u>								
					<u>----- (millions) -----</u>			
1A0011 8/70	Peter Kiewit Sons' Company	Tunnel and METRO Center Station structural construction	7/73	9/74	\$ 38.0	\$ 41.8		
1A0021 12/69	American Structures - MEMCO	Tunnel construction	9/71	2/74	12.3	16.3		
1A0031 2/71	Intercounty Construction, Buckley and Conduit Foundation (Joint venture)	Tunnel and Farragut North Station structural construction	6/73	1/75	23.0	23.4		
1A0043 3/70	S. A. Healey Company	Tunnel construction	6/71	3/73	7.1	12.9		
1A0044 6/71	Granite Construction Company	Tunnel and DuPont Circle Station structural construction	6/73	7/74	11.7	17.4		
1A0061 2/73	Morrison-Knudsen Company, Inc., American Structures, J. R. Steers (Joint venture)	Tunnel and Zoological Park, Cleveland Park, and Van Ness-WTI Stations structural construction	12/75	12/75	30.6	30.6		
1A3011 3/73	Morrison-Knudsen Company, Inc.	METRO Center Station finish construction	7/75	8/75	5.5	5.5		
1A3031 7/73	Morrison-Knudsen Company, Inc.	Farragut North Station finish construction	8/74	2/75	3.5	3.5		
1B0011 12/69	Gordon H. Ball, Inc., J. F. Shea Company, Norair Engineering Corporation (Joint venture)	Tunnel and Judiciary Square and Gallery Place (Upper Level) Stations structural	7/72	1/74	33.7	36.7		
1B0021 5/70	Norair Engineering Corporation	Tunnel construction	8/72	2/74	12.3	12.5		

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WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

INFORMATION ON MAJOR CONTRACTS

AS OF FEBRUARY 1974

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1B0031 12/71	Norair Engineering Corporation	Washington Terminal Company steam and air facilities	4/73	1/74	\$.8	\$ 1.3
1B0032 3/71	P & Z Company, Inc.-Mergentime Corporation	Tunnel and half of Union Station - Visitor Center Station structural construction	12/72	4/74	6.4	6.6
1B0033 3/72	Norair Engineering Corporation	Tunnel, surface, aerial, and half of Union Station - Visitor Center Station structural construction	11/73	5/75	13.2	15.4
1B0043 11/71	Granite Construction Company	Surface, aerial, and Rhode Island Avenue Station structural and finish construction	9/73	12/73	9.8	9.9
1B0051 7/71	METRO Track Constructors	WMATA main line and yard construction	1/73	9/73	3.2	3.6
1B0061 3/71	Allied Contractors, Inc.	Move highway and railroad structures and prepare for surface line	7/72	9/73	1.1	1.2
1B0062 8/72	Corson and Gruman Company, Inc.	Move highway and railroad bridges and prepare for surface line	11/74	1/75	4.4	4.5
1B0063 5/73	The Lane Construction Corporation	Grade and drain for surface line	12/75	12/75	26.5	26.5
1B0065 5/73	Excavation Construction, Inc.	Fort Totten, Takoma, and Silver Spring	2/76	1/76	21.4	21.4
1B3011 8/72	The George Hyman Construction Company	Gallery Place and Judiciary Square Stations finish construction	12/73	12/73	4.0	4.0

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

INFORMATION ON MAJOR CONTRACTS

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1B3032 5/73	The George Hyman Construction Company	Union Station - Visitor Center Station finish construction	2/75	2/75	\$ 2.5	\$ 2.5
1C0011 5/72	Early - Massman (Joint venture)	Tunnel and McPherson Square Station structural construction	11/74	7/75	15.0	19.5
1C0021 9/71	Morrison - Knudsen Company, Inc.	Tunnel and Farragut West Station structural construction	4/74	11/74	31.0	31.2
1C0031 7/71	Massman, Kiewit, and Early - Joint venture	Tunnel and Foggy Bottom Station structural construction	1/74	1/75	26.0	26.1
1C0041 4/71	J. F. Shea Company, Gordon H. Ball, Inc., and S&M Constructors (Joint venture)	Tunnel under Potomac River	12/73	8/75	23.4	30.3
1C0051 6/71	J. F. Shea Co. and Gordon H. Ball, Inc. (Joint venture)	Tunnel, surface, and Rosslyn Station structural construction	2/74	3/75	25.5	30.5
1C0061 12/72	Morrison-Knudsen Company, Inc.	Tunnel construction	1/75	2/75	17.1	17.1
1C0062 3/72	Norair Engineering Corporation	Tunnel and Pentagon Station structural construction	9/74	1/75	17.6	17.7
1C0065 5/73	Excavation Construction, Inc.	Surface and Arlington Cemetery Station structural construction	10/74	10/74	6.3	6.3
1C0071 2/72	Square Construction Company and LaFera Contracting Company (Joint venture)	Tunnel and Pentagon City Station structural construction	9/74	3/75	23.1	23.3

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			<u>Original</u>	<u>Actual or currently projected</u>	<u>Original</u>	<u>Actual or currently projected</u>
					<u>----- (millions) -----</u>	
1C0081 10/72	Peter Kiewit Sons' Company	Tunnel and Crystal City Station structural construction	4/75	5/75	\$ 19.3	\$ 19.3
1C0082 6/73	Ohio Valley/Hardaway (Joint venture)	Aerial line substructure construction	1/75	1/75	4.6	4.6
1C0083 11/73	Granite Construction Company	Aerial line superstructure and National Airport Station structural construction	4/76	4/76	14.5	14.5
1D0011 10/72	P & Z Company, Inc., and J. F. Shea Company (Joint venture)	Tunnel and Federal Triangle Station structural construction	4/75	9/75	29.2	29.7
1D0021 6/72	Swindell-Dressler and Paul R. Jackson (Joint venture)	Tunnel and Smithsonian Station structural construction	11/74	3/75	14.7	14.8
1D0031 8/72	Slattery Associates and Grow Tunneling Company	Tunnel and L'Enfant Plaza Station structural construction	9/75	9/75	48.8	48.9
1D0041 9/72	S & M Constructors and Traylor Brothers (Joint venture)	Tunnel construction	10/74	5/75	22.4	22.3
1D0042 9/72	Mergentime-Steers-Arundel (Joint venture)	Federal Center SW Station structural construction	2/75	2/75	17.9	18.1
1D0043 1/73	S. A. Healy Company - Kruse Construction Company (Joint venture)	Capitol South Station structural construction	3/75	3/75	12.1	12.2
1D0061 9/72	S. A. Healy Company - Kruse Construction Company (Joint venture)	Tunnel and Eastern Market Station structural construction	1/75	1/75	31.9	31.9
1D0071 11/72	Norair Engineering Corporation	Potomac Avenue Station structural construction	2/75	6/75	11.4	11.4

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1D0081 9/73	Granite Construction Company - S. J. Groves Company (Joint venture)	Tunnel and Stadium-Armory Station structural construction	10/75	11/75	\$ 27.4	\$ 27.4
1D0082 5/73	Peter Kiewit Sons' Company	Relocate utilities at Stadium- Armory Station	11/73	11/73	1.0	1.0
1D0091 1/74	Fruin - Colnon Corporation	Tunnel and surface construction	N/A (note a)		13.0	13.0
1F0011 8/73	Gordon H. Ball, Inc.	Tunnel and Gallery Place Station (lower level) structural construction	4/76	4/76	20.1	20.1
1F0012 12/72	Dravo Corporation	Tunnel and Archives Station structural construction	7/75	7/75	28.6	28.6
1K0041 10/73	Morrison-Knudsen Company, Inc.	Tunnel and Glabe Road Station structural construction	8/75	8/75	6.4	6.4
1L0022 3/73	Virginia Department of Highways	Tunnel construction, including transition to surface line	8/75	8/75	12.5	12.4
<u>Equipment Contracts</u>						
1Z1041 10/73	Truland Corporation	Installation of power equipment (partial)	12/75	12/75	1.1	1.1

^a Completion date cannot yet be calculated.

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

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					----- (millions) -----	
1Z2011 9/71	General Railway Signal Company	Train Supervisory Control System	11/74	4/75	\$ 42.1	\$ 42.1
1Z2021 4/72	Seal and Company, Inc.	Communications System	10/76	10/76	5.5	5.8
1Z3101 7/73	The George Hyman Construction Company	Interior finish - Operations Control Center Building	4/74	4/74	1.3	1.3
1Z4051 12/71	Westinghouse Electric Corporation	Escalators phase I - furnish and install	1/75	1/75	12.4	14.1
1Z4052 3/73	Westinghouse Electric Corporation	Escalators phase II - furnish and install	1/76	1/76	13.5	13.5
1Z4081 4/71	METRO Track Constructors	Trackwork phase I - furnish and install	1/74	1/75	8.3	9.7
1Z4082 1/74	METRO Track Constructors	Trackwork phase II-- furnish and install	N/A (note a)		12.6	12.6
1Z4101 7/71	The George Hyman Construction Company	Operations Control Center Building structural construction	9/73	12/73	11.7	11.8
1Z420A 11/71	Whiting Corporation	Transit car hoists and turntables	10/73	10/73	1.5	1.5
1Z4202 10/71	The George Hyman Construction Company	WMATA Main Shop Building construction	1/73	5/73	5.5	5.8
2Z0061 6/72	Rohr Industries, Inc.	Vehicles (one-half of total quantity)	6/76	6/76	91.6	91.6

^a Completion date cannot yet be calculated.

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			<u>Original</u>	<u>Actual or currently projected</u>	<u>Original</u>	<u>Actual or currently projected</u>
					<u>----- (millions) -----</u>	
221031 5/71	General Electric Company	Purchase of power equipment (partial)	9/73	11/73	\$ 1.8	\$ 2.0
<u>Section Design</u>						
3A0011 3/68	Sverdrup & Parcel	Design tunnel and METRO Center Station	12/69	4/70	.8	1.2
3A0031 2/68	Rummel, Klepper & Kahl	Design tunnel and Farragut North Station	5/70	6/70	.7	1.0
3A0041 12/67	Kaiser Engineers	Design tunnel and DuPont Circle Station	7/68	11/69	.9	1.2
3A0061 2/71	Harza Associates of D.C.	Design tunnel and Zoological Park, Cleveland Park, and Van Ness - WTI Stations	7/72	8/72	2.2	2.6
3A0091 1/72	Ralph M. Parsons Company and Parsons Associates	Design tunnel and Tenley Circle and Friendship Heights Stations	1/73	3/73	2.2	2.3
3A0111 5/73	Mathews-Chatelain-Beall (joint venture)	Design tunnel and Bethesda and Medical Center Stations	8/74	8/74	2.2	2.2
3B0011 8/67	Ammann & Whitney	Design tunnel and Judiciary Square and Gallery Place (upper level) Stations	6/68	7/69	1.0	1.3
3B0031 3/68	J. E. Greiner Company, Inc.	Design tunnel, surface, and aerial line, and Union Station - Visitor Center Station	11/70	8/71	.6	1.2

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			<u>Original</u>	<u>Actual or currently projected</u>	<u>Original</u> <u>-----(millions)-----</u>	<u>Actual or currently projected</u> <u>-----(millions)-----</u>
3B0061 8/69	Dalton-Dalton-Little	Design surface line and Fort Totten, Takoma and Silver Spring Stations	8/70	12/70	\$ 1.4	\$ 2.6
3C0021 1/70	Ralph M. Parsons Company	Design terminal and Farragut West Station	4/71	4/71	.9	1.1
3C0051 10/69	Bechtel Associates	Design tunnel and surface line and Rosslyn Station	10/70	4/71	.8	1.1
3C0071 3/70	Green Associates, Inc.	Design tunnel and Pentagon City Station	8/71	9/71	.8	1.1
3C0081 1/71	Hayes, Seay, Mattern & Mattern	Design tunnel and Crystal City Station	3/72	6/72	.9	1.1
3C0082 4/72	Richardson, Gordon & Associates	Design aerial line and National Airport Station	3/73	3/73	1.0	1.2
3D0011 12/70	Daniel, Mann, Johnson & Mendenhall	Design tunnel and Federal Triangle Station	12/71	5/72	.9	1.1
3D0031 6/70	Sverdrup & Parcel	Design tunnel and L'Enfant Plaza Station	12/71	2/72	1.1	1.6
3D0041 12/70	Praeger-Kavanaugh-Waterbury	Design tunnel and Federal Center SW and Capitol South Stations	2/72	2/72	1.5	1.6
3D0061 1/71	Edwards and Kelcey	Design tunnel and Eastern Market Station	2/72	3/72	1.0	1.0

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3D0081 5/72	Henningson, Durham & Richardson, Inc.	Design tunnel and Stadium- Armory Station	5/73	5/73	\$ 1.1	\$ 1.2
3D0101 6/72	Ewell, Bomhardt & Associates	Design surface line and Anacostia River Bridge	1/74	1/74	.9	1.0
3D0131 10/71	Whitman, Requardt & Associates	Design surface line and Cheverly and Landover Stations	3/74	3/74	.9	1.2
3E0011 10/73	Edwards and Felcey	Design tunnel and Federal City College and Shaw Stations	7/75	7/75	1.8	1.8
3I0021 12/73	C. E. Maguire, Inc. - Robert J. Nash	Design tunnel and U Street Station	9/75	9/75	1.3	1.3
3F0021 1/72	Parsons, Brinckerhoff, Quade & Douglas-- Fry & Welsh Associates (joint venture)	Design tunnel and Waterfront Station	5/73	2/74	1.2	1.4
3F0031 7/73	Tippetts-Abbott-McCarthy-Stratton	Design tunnel and Navy Yard Station	9/74	9/74	1.5	1.5
3G0011 10/73	TEI Consulting Engineers, Inc.	Design tunnel and Benning Road Station	7/75	7/75	1.2	1.2
3K0042 11/72	Green Associates, Inc.	Design tunnel and Glebe Road Station	2/74	3/74	.9	1.0
3K0071 11/73	Blauvelt-Syska & Hennessy-Wilburn	Design surface line and Dunn Loring and Vienna Stations	2/75	2/75	1.5	1.5
3K4041 7/72	Virginia Department of Highways	Redesign Interstate Route 66 median for METRO	(Not available)		1.2	1.2

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					<u>----- (millions) -----</u>			
<u>Stage (Equipment) Contracts Design</u>								
320071 4/72	Control Data Corporation	Design Fare Collection Equipment	4/73	4/73	\$ 2.8	\$ 3.1		
322011 2/68	Gibbs & Hill, Inc.	Design Train Control System Phases I - III	5/71	5/71)	1.2	2.6		
322021 2/68	Gibbs & Hill, Inc.	Design Communications System - Phases I - III	12/71	12/71)				
<u>Other Major Contracts</u>								
180064 3/71	General Railway Signal Company	Relocation of C&O/B&O signal and communication pole line	11/75	11/75	1.5	1.5		
124203 7/71	METRO Track Constructors	Relocation of Washington Terminal Company East Coach Yard	1/73	9/73	5.6	6.6		
124206 2/71	General Railway Signal Company	Washington Terminal Company signal modifications	11/72	5/74	2.4	2.6		
<u>Testing and Inspection Contracts</u>								
1A5011 8/70	Sverdrup & Parcel	Field engineering for contract 1A0011	7/73 ^b	9/74 ^b	1.0	2.2		

^bSame as for corresponding construction contracts.

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					<u>----- (millions) -----</u>	
1A5021 1/70	Tippetts-Abbott-McCarthy-Stratton	Field engineering for contract 1A0021	9/71 ^b	2/74 ^b	\$.5	\$ 1.4
1A5031 2/71	Rummel, Klepper & Kahl	Field engineering for contract 1A0031	6/73 ^b	1/75 ^b	.8	1.7
1A5044 2/71	A. A. Mathews Associates	Field engineering for contract 1A0044	6/73 ^b	7/74 ^b	.6	1.3
1B5011 11/69	Ammann & Whitney	Field engineering for contract 1B0011	7/72 ^b	1/74 ^b	.9	1.8
1B5021 3/72	J. E. Greiner Company, Inc.	Field engineering for contracts 1B0021, 1B0031, 1B0032, 1B0033, and 1B0034	Varying dates for five separate contracts ^b		1.6	2.6
<u>Utility Relocations and Agreements</u>						
6A3011 10/70	Potomac Electric Power Company	Utility reimbursement to PEPCO	(Not applicable)		.3	1.9
6B8066 9/72	C&O/B&O Railroad Companies	Support work for contract 1B0062	(Not applicable)		.5	2.6
<u>Major Consultants' Contracts</u>						
12526A 5/71	Bechtel Associates	General construction consulting calendar year 1971	12/71	12/71	1.3	1.3
12526B 1/72	Bechtel Associates	General construction consulting calendar year 1972	12/72	12/72	3.1	3.1

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					<u>----- (millions) -----</u>	
1Z526C 12/72	Bechtel Associates	General construction consulting calendar year 1973	12/73	12/73	\$ 4.3	\$ 4.3
1Z526D 12/73	Bechtel Associates	General construction consulting calendar year 1974	12/74	12/74	1.8	1.8
3Z624A 1/66	DeLeuw, Cather and Company	General engineering consulting fiscal year 1967	6/67	6/67	2.1	2.1
3Z624B 10/67	DeLeuw, Cather and Company	General engineering consulting fiscal year 1968	6/68	6/68	1.2	1.2
3Z624C 7/68	DeLeuw, Cather and Company	General engineering consulting fiscal year 1969	6/69	6/69	2.0	2.0
3Z624D 7/69	DeLeuw, Cather and Company	General engineering consulting fiscal year 1970	6/70	6/70	2.5	2.5
3Z624E 7/70	DeLeuw, Cather and Company	General engineering consulting fiscal year 1971	6/71	6/71	4.2	4.2
3Z624F 7/71	DeLeuw, Cather and Company	General engineering consulting fiscal year 1972	6/72	6/72	4.7	4.7
3Z624G 6/72	DeLeuw, Cather and Company	General engineering consulting fiscal year 1973	6/73	6/73	5.5	5.5
3Z624H 6/73	DeLeuw, Cather and Company	General engineering consulting fiscal year 1974	6/74	6/74	6.1	6.1
					<u>\$1,097.6</u>	<u>\$1,167.5</u>