AN ORDINANCE 28, 767-A

PROVIDING FOR THE SALE AND CONVEYANCE OF CERTAIN PROPERTY IN BEXAR COUNTY, TEXAS

* * * * * * *

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. That the City Public Service Board of San Antonio, acting under theprovisions of the Trust Indenture dated February 1, 1951 and supplements thereto securing City of San Antonio Electric and Gas Revenue Bonds, having made the certificate necessary for the release of the hereinafter described property from the lien and operation of said Trust Indentures and having found that the hereinafter described property is not necessary or useful in the proper and economical operation of the electric and gas system, it is determined that said property should be sold and conveyed to the purchaser and for the consideration hereinafter stated.

2. That the City of San Antonio sell and convey by deed unto Jack Charles for a cash consideration of $2,600.00 the following described lands in Bexar County, Texas, and being more particularly described as follows:

Lots Twenty-Seven (27) and Twenty-Eight (28), Block Ten (10), NCB Eight Thousand Three Hundred Eighty-Two (8,382) in Woodlawn Hills Terrace, in the City of San Antonio, Bexar County,Texas, according to plat recorded in Vol. 980, Page 143, Deed and Plat Records of Bexar County, Texas, said lot 27 having been conveyed to the City of San Antonio as a part of its electric and gas system by Jos. M. Polunsky by deed dated November 15, 1948 and recorded in Vol. 2609, Pages 291-2, Deed Records, Bexar County, Texas, and said Lot 28 having been conveyed to the City of San Antonio as a part of its electric and gas system by deed dated November 6, 1948, and recorded in Vol. 2609 , Pages 82-3, Deed Records, Bexar County, Texas.

3. That the Mayor of the City is hereby authorized to execute and acknowledge, and the City Clerk is hereby authorized to attest under the City Seal, a deed conveying to the above described property to said purchaser upon the payment of the sum of $2,600.00 in cash to the City Public Service Board of San Antonio, to be held, used and applied by said Board as provided in said Trust Indenture dated February 1, 1951, and supplements thereto.

4. PASSED AND APPROVED this 28th day of July, 1960.

J. EDWIN KUYKENDALL, M A Y OR

ATTEST: J. Frank Gallagher
City Clerk

\- - - - - - -

AN ORDINANCE 28, 768

APPOINTING MEMBERS OF THE PLANNING COMMISSION, THE HEATING AND AIR CONDITIONING BOARD OF APPEALS AND THE BOARD OF TRUSTEES OF THE SAN ANTONIO PUBLIC LIBRARY.

* * * * * * *

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. Frank Riley, Paul Rose, Lynn Spears and W. R. Bryant are appointed members of the Planning Commission for terms expiring April 30, 1962.

2. J. F. Wagner, Harvey Powers and Foy Lanier are appointed members of the Heating and Air Conditioning Board of Appeals for aterm ending May 31, 1962.

3. J. F. Olivares, and James E. Taylor, Jr., are appointed members of the Board of Trustees of the San Antonio Public Library for a term ending April 30, 1962.

4. PASSED AND APPROVED this 28th day of July, 1960.

J. EDWIN KUYKENDALL, M A Y O R

ATTEST: J. Frank Gallagher
City Clerk

\- - - - - - -

AN ORDINANCE 28, 769

CONFIRMING APPOINTMENT BY THE CITY MANAGER OF MEMBERS OF VARIOUS BOARD AND COMMISSIONS.

* * * * * * * * * * * * *

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO-

1. The appointment by the City Manager of the following persons to serve as members of the Board and commissions indicated is hereby ratified and confirmed:

(a) Aviation Board, for a term expiring March 31, 1962:
John M. Bennett, Jr.
John M. Crane
Kellis Dibrell
A. R. Reeves
E. E. Ives

(b) Parks and Recreation Board, for a term expiring April 30, 1962:
John A. Bitter, Jr.
Peter D. Reed
Mrs. CharlesAndrews
Perry Samuels

(c) Fire and Police Civil Service Commission, for a term expiring March 30, 1963:
Roy Padilla

(d) Board of Examiners and Appeals, for a term expiring December 31, 1962:
Frank T. Drought
George R. Johnson
Dennis E. Feigenspan

(e) Municipal Advertising Committee, to fill the unexpired term of Henry Catto, Jr., resigned:

Roland Landers

2. PASSED AND APPROVED this 28th day of July, 1960.

J. EDWIN KUYKENDALL, M A Y O R

ATTEST: J. Frank Gallagher
City Clerk

- - - - - -

AN ORDINANCE 28, 770

AMENDING SECTION 2 OF AN ORDINANCE ENTITLED "AN ORDINANCE ESTABLISHING ZONING REGULATIONS AND DISTRICTS IN ACCORDANCE WITH A COMPREHENSIVE PLAN, ETC.," PASSED AND APPROVED ON NOVEMBER 3, 1938, BY CHANGING THE CLASSIFICATION AND REZONING OF CERTAIN PROPERTY DESCRIBED HEREIN. * * * * * * * * * * * * * * * * *

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. That Section 2 of an Ordinance entitled "AN ORDINANCE ESTABLISHING ZONING REGULATIONS AND DISTRICTS IN ACCORDANCE WITH A COMPREHENSIVE PLAN, ETC.," passed and approved by the Commissioners of the City of San Antonio on the 3rd day of November, 1938, be and the sameis hereby amended so that paragraph 3 of said Section 2 shall hereafter include the following described changes in classification and the rezoning of the hereinbelow designated property, to-wit: (CASE NO. 1008) The rezoning and reclassification of property from "A" Residence District to "E" Office District as follows: Lots 36, 37 and 38, NCB 11880

2. That all other provisions of said ordinance, as amended, shall remain in full force and effect, including the penalty for violations thereof as made and provided in Section 28.

3. That the Chief Building Inspector and the Director of Planning shall change their records and zoning maps in accordance with and thesame are available and open to the public for inspection.

4. PASSED AND APPROVED this 4th day of August, 1960 A.D.

J. EDWIN KUYKENDALL, MAYOR

ATTEST: J. H. INSELMANN
Asst. City Clerk

- - - - -

AN ORDINANCE 28, 771

AMENDING SECTION 2 OF AN ORDINANCE ENTITLED "AN ORDINANCE ESTABLISHING ZONING REGULATIONS AND DISTRICTS IN ACCORDANCE WITH A COMPREHENSIVE PLAN, ETC.," PASSED AND APPROVED ON NOVEMBER 3, 1938, BY CHANGING THE CLASSIFICATION AND REZONING OF CERTAIN PROPERTY DESCRIBED HEREIN. * * * * * * * * * * * * * * * * *

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. That Section 2 of an Ordinance entitled "AN ORDINANCE ESTABLISHING ZONING REGULATIONS AND DISTRICTS IN ACCORDANCE WITH A COMPREHENSIVE PLAN, ETC.," passed and approved by the Commerissioners of theCity of San Antonio on the 3rd day of November, 1938, be and the same is hereby amended so that paragraph 3 of said Section 2 shall hereafter include the following described changes in classification and the rezoning of the hereinbelow designated property, to-wit: (CASE NO. 1245) The rezoning and reclassification of property from "A" Residence District to "JJ" Commercial District as follows: Lot 3, NCB 10600

2. That all otherprovisions of said ordinance, as amended, shall remain in full force and effect, including the penalty for violations thereof as made and provided in Section 28.

3. That the Chief Building Inspector and the Director of Planning shall change their records and zoning maps in accordance with and the same are available and open to the public for inspection.

4. PASSED AND APPROVED this 4th day of August, A.D. 1960.

J. EDWIN KUYKENDALL, M A Y O R

ATTEST: J. H. Inselmann
Asst. City Clerk

* * * * * * *

- - - - - -

AN ORDINANCE 28, 772

AMENDING SECTION 2 OF AN ORDINANCE ENTITLED "AN ORDINANCE ESTABLISHING ZONING REGULATIONS AND DISTRICTS IN ACCORDANCE WITH A COMPREHENSIVE PLAN, ETC.," PASSED AND APPROVED ON NOVEMBER 3, 1938, BY CHANGING THE CLASSIFICATION AND REZONING OF CERTAIN PROPERTY DESCRIBED HEREIN

* * * * * *

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. That Section 2 of an Ordinance entitled "AN ORDINANCE ESTABLISHING ZONING REGULATIONS AND DISTRICTS IN ACCORDANCE WITH A COMPREHENSIVE PLAN, ETC.," passed and approved by the Commissioners of the City of San Antonio on the 3rd day of November, 1938, be and the same is hereby amended so that paragraph 3 of said Section 2 shall hereafter include the following described changes in classification and the rezoning of the hereinbelow designated property, to-wit: (CASE NO.1278) The rezoning and reclassification of property from "F" Local Retail District to "JJ" Commercial District as follows: Lot 8, NCB 10114

2. That all other provisions of said ordinance, as amended, shall remain in full force and effect, including the penalty for violations thereof as made and provided in Section 28.

3. That the Chief Building Inspector and the Director of Planning shall change their records and zoning maps in accordance herewith and the same are available and open to the public for inspection.

4. PASSED AND APPROVED this 4th day of August, A. D. 1960.

J. EDWIN KUYKENDALL, M A Y O R

ATTEST: J. H. Inselmann
Asst. City Clerk

- - - - - -

AN ORDINANCE 28, 773

AMENDING SECTION 2 OF AN ORDINANCE ENTITLED "AN ORDINANCE ESTABLISHING ZONING REGULATIONS AND DISTRICTS IN ACCORDANCE WITH A COMPREHENSIVE PLAN, ETC.," PASSED AND APPROVED ON NOVEMBER 3, 1938, BY CHANGING THE CLASSIFICATION AND REZONING OF CERTAIN PROPERTY DESCRIBED HEREIN

* * * * * * * *

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. That Section 2 of An Ordinance entitled "AN ORDINANCE ESTABLISHING ZONING REGULATIONS AND DISTRICTS IN ACCORDANCE WITH A COMPREHENSIVE PLAN, ETC." passed and approved by the Commissioners of the City of San Antonio on the 3rd day of November, 1938, be and the same is hereby amended so that paragraph 3 of said Section 2 shall hereafter include the following described changes in classification and the rezoning of the hereinbelow designated property, to-wit: (CASE NO. 1296) The rezoning and reclassification of property from "A" Residence District to "JJ" Commercial District as follows: Lot 20, NCB 10849 and Lot 23, NCB 10849

2. That all other provisions of said ordinance, as amended, shall remain in full force and effect, including the penalty for violations thereof as made and provided in Section 28.

3. That the Chief Building Inspector and the Director of Planning shall change their records and zoning maps in accordance herewith and the same are available and open to the public for inspection.

4. PASSED AND APPROVED this 4th day of August, 1960 AD.

J. EDWIN KUYKENDALL, M A Y O R

ATTEST: J H. Inselmann

Asst. City Clerk

- - - - - - -

AN ORDINANCE 28, 774

AMENDING SECTION 2 OF AN ORDINANCE ENTITLED "AN ORDINANCE ESTABLISHING ZONING REGULATIONS AND DISTRICTS IN ACCORDANCE WITH A COMPREHENSIVE PLAN, ETC.," PASSED AND APPROVED ON NOVEMBER 3, 1938, BY CHANGING AND REZONING OF CERTAIN PROPERTY DESCRIBED HEREIN.

* * * * * * *

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:

1. That Section 2 of an Ordinance entitled "AN ORDINANCE ESTABLISHING ZONING REGULATIONS AND DISTRICTS IN ACCORDANCE WITH A COMPREHENSIVE PLAN, ETC.," passed and approved by the Commissioners of the City of San Antonio on the 3rd day of November, 1938, be and the same is hereby amended so that paragraph 3 of said Section 2 shall hereafter include the following described changes in classification and the rezoning of the hereinbelow designated property, to-wit: (CASE NO. 1312) The rezoning and reclassification of property from "B" Residence District and "J" Commercial District to "JJ" Commercial District as follows: Lot 31, NCB 8619

2. That all other provisions of said ordinance, as amended, shall remain in full force and effect, including the penalty for violations thereof as made and provided in Section 28.

3. That the Chief Building Inspector and the Director of Planning shall change their records and zoning maps in accordance herewith and the same are available and open to the public for inspection.

4. PASSED AND APPROVED this 4th day of August, A. D. 1960.

J. EDWIN KUYKENDALL, M A Y O R

ATTEST: J. H. Inselmann
Asst. City Clerk

\- - - - - -

AN ORDINANCE 28, 775

AMENDING SECTION 2 OF AN ORDINANCE ENTITLED "AN ORDINANCE ESTABLISHING ZONING REGULATIONS AND DISTRICTS IN ACCORDANCE WITH A COMPREHENSIVE PLAN, ETC.," PASSED AND APPROVED ON NOVEMBER 3, 1938, BY CHANGING AND REZONING OF CERTAIN PROPERTY DESCRIBED HEREIN.

* * * * * *

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. That Section 2 of an Ordinance entitled "AN ORDINANCE ESTABLISHING ZONING REGULATIONS AND DISTRICTS IN ACCORDANCE WITH A COMPREHENSIVE PLAN, ETC.," passed and approved by the Commissioners of the City of San Antonio on the 3rd day of November, 1938, be and the same is hereby amended so that paragraph 3 of said Section 2 shall hereafter include the following described changes in classification and the rezoning of the hereinbelow designated property; to-wit: (CASE NO. 1327) The rezoning and reclassification of property from "A" Residence District to "D" Apartment District as follows: Lot 1, Blk. 1, NCB 13120

2. That all other provisions of said ordinance, as amended, shall remain in full force and effect, including the penalty for violations thereof as made and provided in Section 28.

3. That the Chief Building Inspector and the Director of Planning shall change their records and zoning maps in accordance herewith and the same are available and open to the public for inspection.

4. PASSED AND APPROVED this 4th day of August, A.D. 1960.

J. EDWIN KUYKENDALL, M A Y O R

ATTEST: J. H. Inselmann
Asst. City Clerk

\- - - - - -

AN ORDINANCE 28, 776

AMENDING SECTION 2 OF AN ORDINANCE ENTITLED "AN ORDINANCE ESTABLISHING ZONING REGULATIONS AND DISTRICTS IN ACCORDANCE WITH A COMPREHENSIVE PLAN, ETC.," PASSED AND APPROVED ON NOVEMBER 3, 1938, BY CHANGING THE CLASSIFICATION AND REZONING OF CERTAIN PROPERTY DESCRIBED HEREIN

* * * * * * *

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. That Section 2 of an Ordinance entitled "AN ORDINANCE ESTABLISHING ZONING REGULATIONS AND DISTRICTS IN ACCORDANCE WITHA COMPREHENSIVE PLAN, ETC.," passed and approved by the Commissioners of the City of San Antonio on the 3rd day of November, 1938, be and the same is hereby amended so that paragraph 3 of said Section 2 shall hereafter include the following described changes in classification and the rezoning of the hereinbelow designed property, to-wit: (CASE NO. 1328) The rezoning and reclassification of property from "B" Residence Dist-ict to "D" Apartment District as follows: Tract 1, Blk. 8, NCB 1886

2. That all other provisions of said ordinance, as amended, shall remain in full force and effect, including the penalty for violations thereof as made and provided in Section 28.

3. That the Chief Building Inspector and the Director of Planning shall change their records and zoning maps in accordance herewith and the same are available and open to the public for inspection.

4. PASSED AND APPROVED this 4th day of August, A. D. 1960.

J. EDWIN KUYKENDALL, MAYOR

ATTEST: J. H. Inselmann
Asst. City Clk.

\- - - - - - -

AN ORDINANCE 28, 777

AMENDING SECTION 2 OF AN ORDINANCE ENTITLED "AN ORDINANCE ESTABLISHING ZONING REGULATIONS AND DISTRICTS IN ACCORDANCE WITH A COMPREHENSIVE PLAN,ETC." PASSED AND APPROVED ON NOVEMBER 3, 1938, BY CHANGING THE CLASSIFICATION AND REZONING OF CERTAIN PROPERTY DESCRIBED HEREIN

* * * * * * *

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. That Section 2 of an Ordinance entitled "AN ORDINANCE ESTABLISHING ZONING REGULATIONS AND DISTRICTS IN ACCORDANCE WITH A COMPREHENSIVE PLAN, ETC.," passed and approved by the Commissioners of the City of San Antonio on the 3rd day of November, 1938, be and the same is hereby amended so that paragraph 3 of said Section 2 shall hereafter include the following described changes in classification and the rezoning of the hereinbelow designated property, to-wit: (CASE NO. 1335) The rezoning and reclassification of property from "B" Residence Distrist and "D" Apartment Districts to "F" Local Retail and "JJ" Commercial Districts as follows: To be zone "JJ" Commercial : Lot 25, NCB 11688 - To be zone "F" Local Retail District: Lot 27, NCB 11688

2. That all other provisions of said ordinance, as amended, shall remain in full force and effect, including the penalty for violations thereof as made and provided in Section 28.

3. That the Chief Building Inspector and the Director of Planning shall change their records and zoning maps in accordance herewith and the same are available and open to the public for inspection.

4. PASSED AND APPROVED this 4th day of August, A. D. 1960.

J. EDWIN KUYKENDALL, MAYOR

ATTEST: J. H. Inselmann
Asst. City Clerk

\- - - - - - -

AN ORDINANCE 28, 778

AMENDING SECTION 2 OF AN ORDINANCE ENTITLED "AN ORDINANCE ESTABLISHING ZONING REGULATIONS AND DISTRICTS IN ACCORDANCE WITH A COMPREHENSIVE PLAN, ETC." PASSED AND APPROVED ON NOVEMBER 3, 1938, BY CHANGING THE CLASSIFICATION AND REZONING OF CERTAIN PROPERTY DESCRIBED HEREIN.

* * * * * * *

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. That Section 2 of an Ordinance entitled "AN ORDINANCE ESTABLISHING ZONING REGULATIONS AND DISTRICTS IN ACCORDANCE WITH A COMPREHENSIVE PLAN, ETC." passed and approved by the Commissioners of the City of San Antonio on the 3rd day of November, 1938, be and the same is hereby amended so that paragraph 3 of said Section 2 shall hereafter include the following described changes in classification and the rezoning of the hereinbelow designated property to-wit: (CASE NO. 1336) The rezoning and reclassification of property from "A" Residence District to "F" Local Retail District as follows: Lot 22, NCB 10733

2. That all other provisions of said ordinance, as amended, shall remain in full force and effect, including the penalty for violations thereof as made and provided in Section 28.

3. That the Chief Building Inspector and the Director of Planning shall change their records and zoning maps in accordance herewith and the same are available and open to the public for inspection.

4. PASSED AND APPROVED this 4th day of August, A. D. 1960.

J. EDWIN KUYKENDALL, M A Y O R

ATTEST: J. H. Inselmann
Asst. City Clk.

\- - - - -

A RESOLUTION

ACCEPTING A LICENSE FROM THE EXECUTOR OF THE ESTATE OF DWIGHT D. BOOK TO CONSTRUCT A RETAINING WALL IN NCB 106.

* * * *

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. The attached License agreement between the City of San Antonio and the Executor of the estate of Dwight D. Book, which is incorporated herein for all things is hereby accepted.

2. PASSED AND APPROVED this 4th day of August, 1960.

J. EDWIN KUYKENDALL, M A Y O R

ATTEST: J. H. Inselmann
Asst. City Clk.

\- - - - - -

AN ORDINANCE 28, 779

APPROPRIATING $15,600.00 OUT OF THE NAMED FUNDS IN CONNECTION WITH THE CITY'S LAND ACQUISITION PROGRAM.

* * * * * * *

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. The following sums of money are hereby appropriated out of the named funds to be made payable to the designated title companies for properties to be acquired in connection with the City's land acquisiton program:

A. $8,400.00 from Sanitary Sewer Improvement and Extension Bonds, 1957 Series, Acct. No. 479-14, payable in the designated amounts to the Alamo Title Company as escrow agent for the named parties, said parcels to be used for a sewage treatment outfall line and appurtenances thereto at Mitchell Lake.

1. $297.98 for Cornelius A. Ripps and O'Dare D. Ripps for a permanent easement over, across, under and upon a parcel of property out of the John Manuel Urriegas Survey C. S. 32, Abstract 769, County Blk. 4283, Bexar County, Texas. Parcel No. 3551.

2. $2,456.03 for Aloysius J. Ripps and Elaine L. Ripps for permanent and temporary easements over, across, under andupon a parcel of property out of the John Manuel Urriegas Survey C. S. 32, Abstract 769, County Block 4283, Bexar County, Texas. Parcel Nos. 3552 and 3554.

3. $3,195.79 for Erwin J. Ripps and Eleanor L. Ripps for three easements over, across, under and upon a parcel of property out of the John Manuel Urriegas Survey C. S. 32, Abstract 769, County Block 4283, Bexar County, Texas. Parcel Nos. 3553, 3556 and 3558.

4. $1,550.20 for Anna Katherine Ripps for a permanent and temporary easement over, across, under and upon a parcel of property out of the John Manuel Urriegas Survey C. S. 32, Abstract 769, County Block 4283, Bexar County, Texas. Parcel No. 3555.

5. $100.00 for Rudolph Schaffer and wife, Levina Schaffer, and R. D. Abernathy and wife, Pearl B. Abernathy, for permanent and temporary easements over, across, under and upon a parcel of property out of the John Manuel Urriegas S urvey C. S. 32, Abstract 769, County Blk. 4283, Bexar County, Texas. Parcel No. 3557.

6. $800.00 for L. A. Kiser and Susie E. Kiser for permanent and temporary easements over, across, under and upon a parcel of property out of the John Manuel Urriegas Survey C. S. 32, Abstract 769, County Blk. 4283, Bexar County, Texas. Parcel No. 3559.

B. $7,200.00 from the Storm Sewer and Drainage Bonds, 1957 Series, Acct. No. 479-13, payable in the designated amount s to the Commercial Title Co., as escrow agent for the named parties, said parcels to be used in conjunction with Storm Drainage Project No. 58A:

1. $1,700 for I. Goldstein, Nicholas Pena and Juanita G. Pena for fee title to Lots 12 and 13, NCB 8895, San Antonio, Bexar County, Texas. Parcel No. 4049 and 4050.

2. $1,000.00 for I. Goldstein, Manuel Suarez and Sara A. Suarez, for fee title to Lot 11, NCB 8895, San Antonio, Bexar County, Texas. Parcel No. 4051.

3. $1,000.00 for Frank Rosenkranz and Margaret Rosenkranz for permanent easement over, across, under and upon the south ten feet of Lots 1 and 2, NCB 3667, San Antonio, Bexar County, T exas. Parcel No. 3963 and 3965.

4. $3,500.00 for Regino Hernandez and Casimira R. Hernandez for fee title to a trapezoidal tract off the north or near end of Lot 12, Block 70, C. B. 4031, NCB 3667, Lakeview Addition, San Antonio, Bexar County, Texas. Parcel No. 3964.

2. PASSED AND APPROVED this 4th day of August, 1960.

J. EDWIN KUYKENDALL, M A Y O R

ATTEST: J. H. Inselmann
Asst. City Clk.

- - - - - - -

AN ORDINANCE 28, 780

AUTHORIZING THE FINANCE DIRECTOR TO PURCHASE CERTAIN CITY DIRECTORIES FOR USE OF THE VARIOUS DEPARTMENTS OF THE CITY OF SAN ANTONIO FROM R. L. POLK & CO. FOR A TOTAL OF $1,870.00.

* * * * * * * *

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. THAT the Director of Finance be authorized to purchase certain City Directories from R. L. Polk & Co. for use by the various departments of the Cityof San Antonio for a total of $1,870.00, (22 directories @ $85.00) each.

2. This is the sole source of supply for this particular item.

3. Payment to be made from 1960-61 General Fund.

4. PASSED AND APPROVED this 11th day of August, 1960.

MIKE PASSUR, M A Y O R PRO TEM

ATTEST: J. Frank Gallagher
City Clerk

- - - - - -

AN ORDINANCE 28, 781

ACCEPTING THE ATTACHED LOW QUALIFIED BID OF SAN ANTONIO MACHINE & SUPPLY CO. TO FURNISH THE CITY OF SAN ANTONIO DEPARTMENT OF PUBLIC WORKS WITH CERTAIN REINFORCING FABRIC FOR A TOTAL OF $2,700.00.

****

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. The attached low qualfied bid of San Antonio Machine and Supply Co., dated August 5, 1960, to furnish the Cityof San Antonio Department of Public Works with certain reinforcing fabric for a total of $2,700.00, less 1/2 of 1% - 10 days is hereby accepted.

2. Payment to be made from 1-01 General Fund, Department of Public Works, Acct. No. 09-04-11.

3. All other bids received are hereby rejected.

4. PASSED AND APPROVED this 11th day of August, 1960.

MIKE PASSUR, MAYOR PRO TEM

ATTEST: J. Frank Gallagher
City Clerk

- - - - - - -

AN ORDINANCE 28, 782

ACCEPTING THE ATTACHED LOW QUALIFIED BID OF MAVERICK-CLARKE TO FURNISH THE CITY OF SAN ANTONIO, SERVICE CENTERS WITH CERTAIN DESKS FOR A TOTAL OF $2,014.70.

****

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. The attached low qualified bid of Maverick-Clarke, dated August 5, 1960, to furnish the City of San Antonio, Service Centers with certain desks for a total of $2,014.70 is hereby accepted.

2. Payment to be made from 1-01 General Fund, Special Projects, Other Appropriations, Acct. No. 09-06-01 (A and B).

3. All other bids received are hereby rejected.

4. PASSED AND APPROVED this 11thday of August, 1960.

MIKE PASSUR, M A Y O R PRO TEM

ATTEST: J. Frank Gallagher
City Clerk

- - - - - -

AN ORDINANCE 28, 783

AUTHORIZING THE FINANCE DIRECTOR TO PURCHASE CERTAIN ITEMS OF SCHOOL SAFETY PATROL EQUIPMENT FROM THE ALAMO MOTOR CLUB FOR THE CITY OF SAN ANTONIO POLICE DEPARTMENT BUREAU OF SAFETY & INFORMATION FOR A TOTAL OF $1,307.89.

****

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. THAT the Director of Finance be authorized to purchase certain items of school safety patrol equipment from the Alamo Motor Club, 301 E. Crockett, San Antonio, Texas for use by the City of San Antonio Police Department, Services (Bureau of Safety and Information) for a total of $1,307.89.

2. This is the sole source of supply for this particular items.

3. Payment to be made from 1-01 General Fund, Police Department, Acct. No.07-03-09.

4. PASSED AND APPROVED this 11th day of August, 1960.

MIKE PASSUR, M A Y O R PRO TEM

ATTEST: J. Frank Gallagher
City Clerk

- - - - - -

AN ORDINANCE 28, 784

GRANTING PERMISSION TO A. TEDFORD BARCLAY, JR. AND WIFE TO USE THE CITY SANITARY SEWERS BY A CONNECTION OUTSIDE OF THE CITY LIMITS.

****

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. That the petition of A. Tedford Barclay, Jr., for a license to use the sanitary sewerage system of theCity Of San Antonio, is granted hereby, subject to the following precedent conditions;

2. That the permit hereby granted is temporary, and the City reserves the right to revoke same at any time, with or without notice.

3. That the house plumbing and the connection with the City sewer shall be made and maintained at the cost and risk of the Licensee, in conformity with the Ordinances of the CITY OF SAN ANTONIO.

4. That this permit is intended to cover only the sewerage from the property of the Licensee, as same is now situated on said premises at 216 Lulac Lane, Lot 5 -Tract #33, Bk. 5807 Forrest H. Dinn Subdivision - CS 44 Corner of Nadine Terrell Hills, Texas and noother person shall be permitted to use the said City Sanitary Sewers through the connection hereby made.

6. That the use of said sewer connection shall be subject to the regulation of the CITY OF SAN ANTONIO, and no use shall be made which might, in any way, impair the City Sewer System, or cause same to be obstructed or damaged in any manner whatsoever, in the opinion of the City Sewer Engineer, whose judgement shall be conclusive.

~~6xxxThatxthexusexofxsaidxsewerxconnectionxshallxbexsubjectxtoxthexregulationxofxthexCITYxOF SANxANTONIOxxandxnoxusexshallxbexmadexwhichxmight~~

5. That the future owner of the above property shall comply with all the provisions hereof, and the conditions are covenants running with the land.

7. That in consideration of thepermit hereby granted, and the service to be rendered, the said Licensee agrees to pay to the CITY OF SAN ANTONIO, at the office of the License and Dues Collector, in San Antonio, Bexar County, Texas, as a rental charge, the schedule of fees fixed, and to be fixed, by Ordinance of the CITY OF SAN ANTONIO, said rental commencing on the date of connection made with the City sanitary sewers; but, in the event the permit hereby granted is cancelled, for any reason, the pro rata amount of said rental shall be returned, less any expense incurred by theCity in the premises. The CITY OF SAN ANTONIO is given a lien on the real estate described herein, to secure the payment of the sewer rental, and the City shall have the right to shut off the City water supply to the premises described herein if the Licensee fails to stop the discharge of sewerage into the City Sewerage System when the City terminates this permit. Licensee claims no rights to the use of the sanitary sewerage system of theCityof San Antonio or to the rates of rental charges prescribed under the provisions of a contract entered into between the City of San Antonio and Bexar County Water Control and Improvement District No. 8, adopted by Ordinance No. 2943, effective December 31, 1945. Licensee waives all rights or claims under such contract and accepts the license granted herein subject solely to the terms hereof the regulations of the City.

8. That the inspectors of the City shall have free access to the Licensee's premises, and all buildings situated thereon, during the continuance of this permit and while said premises are connected with said City Sanitary Sewers, for the purpose of inspecting the condition of the plumbing and the use of said sewers.

9. The CITY OF SAN ANTONIO shall never be liable to the Licensee for pecuniary damage for failure to take and treat the sewerage of the Licensee, and said right of action is waived as a part of the consideration of this permit.

PASSED AND APPROVED THIS 11th day of August, A.D., 1960.

MIKE PASSUR, M A Y O R PRO TEM

ATTEST: J. Frank Gallagher
City Clerk

\- - - - - - -

AN ORDINANCE 28, 785

TO USE THE CITY SANITARY SEWERS BY A CONNECTION OUTSIDE OF THE CITY LIMITSOF THE PETITION OF MR. & MRS. GILBERT ELIZONDO.

****

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. That the petition of Mr. & Mrs. Gilbert Elizondo, for a license to use thesanitary sewerage system of the CITY OF SAN ANTONIO, is granted hereby, subject to the following precedent conditions:

2. That thepermit hereby granted is temporary; and the City reserves the right to revoke same at any time, with or without notice.

3. That the house plumbing and the connection with the City sewer shall be made and maintained at the cost and risk of the Licensee, in conformity with the Ordinances of the CITY OF SAN ANTONIO.

4. That this permit is intended to cover only the sewerage from the property of the Licensee, as same is now situated onsaid premises at 521 Ridgemont, Lot 14, 38 Cty Blk. 5742, Terrell Hills, Texas and no other person shall be permitted to use the said City Sanitary Sewers through the connection hereby made.

5. That the future owner of the above property shall comply with all the provisions hereof, and the conditions are covenants running with the land.

6. That the use of said sewer connection shall be subject to the regulation of the CITY OF SAN ANTONIO, and no use shall be made which might, in any way, impair theCity Sewer System, or cause same to be obstructed or damaged in any manner whatsoever, in the opinion of the City Sewer Engineer, whose judgement shall be conclusive.

7. That in consideration of the permit hereby granted, and the service to be rendered, the said Licensee agrees to pay to the CITY OF SAN ANTONIO, at the office of the License and Dues Collector, in San Antonio, Bexar County, Texas, as a rental charge, the schedule of fees fixed, and to be fixed, by Ordinanee of the CITY OF SAN ANTONIO, said rental commencing on the date of connection made with the City sanitary sewers; but, in the event the permit hereby granted is cancelled, for any reason, the pro rata amount of said rental shall be returned, less any expense incurredby the City in the premises. The CITY OF SAN ANTONIO is given a lien on the real estate described herein, to secure the payment of the sewer rental, and the City shall have the right to shut off the City water supply to the premises described herein if the Licensee fails to stop the discharge of sewerage into the City Sewerage System when the City terminates this permit.

8. That the inspectors of the City shall have free access to the Licensee's premises, and all buildings situated thereon, during the continuance of this permit and while said premises are connected with said City Sanitary Sewers, for the purpose of inspecting the condition of the plumbing and the use of said sewers.

9. The CITY OF SAN ANTONIO shall never be liable to the Licensee for pecuniary damage for failure to take and treat the sewerage of the Licensee, and said right of action is waived as a part of the consideration of this permit.

PASSED AND APPROVED THIS 11th day of August, A.D., 1960.

MIKE PASSUR, MAYOR PRO TEM

ATTEST: J. Frank Gallagher
City Clerk

- - - - - -

AN ORDINANCE 28, 786

AMENDING ORDINANCES 26, 855 AND 27, 173 WHICH ACCEPTED THE PROPOSALS OF IRVING S. SELIGMANN, FOR ENGINEERING SERVICES IN CONNECTION WITH THE RELOCATION AND RECONSTRUCTION OF SANITARY SEWER LINES ALONG RIGHT OF WAY FOR INTERSTATE HIGHWAY NO. 35, FROM BROADWAY TO RITTIMAN ROAD, TO PROVIDE FOR THE PAYMENT OF SAID SERVICES ON A COST PLUS FIXED FEE BASIS RATHER THAN ON A PERCENTAGE BASIS.

****

WHEREAS, the City entered into a contract with Irving S. Seligmann in Ordinance No. 26,855, passed and approved August 21, 1958, for the relocation and reconstruction of sanitary sewer lines along right of way for Interstate Highway No. 35, from Broadway to Artesia Road and also entered into a contract with Irving S. Seligmann in Ordinance No. 27,173, passed and approved December 18, 1958, for additional relocation and reconstruction of sanitary sewer lines from Artesia Road to Rittiman Road; and,

WHEREAS, the method for compensating the engineer in said contract was on a percentage basis; and,

WHEREAS, it is now mutually agreed by the City and Irving S. Seligmann, Engineer, to operate the contract on a cost plus fixed fee basis; as per the new proposal by Irving S. Seligmann; NOW, THEREFORE,

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. Ordinances 26,855 and 27,173, which accepted the proposals of Irving S. Seligmann, for engineering services in connection with the relocation and reconstruction of sanitary sewer lines along right-of-way for Interstate Highway No. 35, from Broadway to Rittiman Road, are hereby amended to substitute a cost plus fixed basis of payment rather than a percentage of cost of construction basis of payment.

2. The new proposal of Irving S. Seligmann, Engineer, of cost plus fixed fee basis for determining the engineering fee for the project mentioned above is hereby accepted.

3. PASSED AND APPROVED this 11th day of August, 1960.

MIKE PASSUR, M A Y O R PRO TEM

ATTEST: J. Frank Gallagher
City Clerk

- - - - - -

AN ORDINANCE 28, 787

APPROPRIATING AN ADDITIONAL $63.58 OUT OF SANITARY SEWER BOND FUND NO. 479-14, 1957 SERIES, PAYABLE TO R. MARVIN SHIPMAN FOR SERVICES IN CONNECTION WITH SANITARY SEWER PROJECT NO. S-1.

****

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. The additional sum of $63.58 is hereby appropriated out of Sanitary Sewer Bond Fund No. 479-14, 1957 Series, payable to R. Marvin Shipman, in connection with Sanitary Sewer Project No. S-1. This appropriation is necessitated by an over-run in the construction cost of the project.

2. PASSED AND APPROVED this 11th day of August, 1960.

MIKE PASSUR, M A Y O R PRO TEM

ATTEST: J. Frank Gallagher
City Clerk

- - - - - -

AN ORDINANCE 28, 788

APPROPRIATING AN ADDITIONAL $6,708.64 OUT OF STORM DRAINAGE BOND FUND NO. 479-13, 1957 SERIES, PAYABLE TO JOHN MEENTS AND J. C. TRUEHEART FOR THE CONSTRUCTION OF STORM DRAINAGE PROJECT NO. 72 - 72x.

****

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. The additional sum of $6,708.64 is hereby appropriated out of Storm Drainage Bond Fund No. 479-13, 1957 Series, payable to John Meents and J. C. Trueheart for the construction of Storm Drainage Project No. 72 - 72x.

2. PASSED AND APPROVED this 11th day of August, 1960.

MIKE PASSUR, M A Y O R PRO TEM

ATTEST: J. Frank Gallagher
City Clerk

- - - - - -

AN ORDINANCE 28, 789

AUTHORIZING PAYMENT OF AN ADDITIONAL $487.08 TO W. E. WILCOX OUT OF GENERAL FUND ACCOUNT NO.09-06-01 IN CONNECTION WITH THE REVISION AND CONSTRUCTION OF THE PRESENT BUILDINGS AT THE ZARZAMORA STREET AND NORTH LOOP 13 SERVICE CENTERS.

****

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. Payment of an additional $487.08 out of General Fund Account No. 09-06-01 to W. E. Wilcox for services in connection with the construction and revision of the present buildings at the South Zarzamora Street and North Loop 13 Service Centers is hereby authorized.

2. PASSED AND APPROVED this 11th day of August, 1960.

MIKE PASSUR, M A Y O R PRO TEM

ATTEST: J. Frank Gallagher
City Clerk

- - - - - - -

AN ORDINANCE 28, 790

AUTHORIZING AN ADDITIONAL PAYMENT OF $428.98 TO WALTER BOWDEN OUT OF GENERAL FUND ACCOUNT NO. 09-06-01 IN CONNECTION WITH THE CONSTRUCTION OF MAINTENANCE SHOPS AT THE NORTH LOOP 13 AND SOUTH ZARZAMORA STREET SERVICE CENTERS.

****

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. Payment of the sum of $428.98 out of General Fund Account No. 09-06-01 to Walter Bowden in connection with the construction of maintenance shops at the North Loop 13 and South Zarzamora Street Service Centers is hereby authorized. The payment is necessitated by an over-run in the cost of construction of said project.

2. PASSED AND APPROVED this 11th day of August, 1960.

MIKE PASSUR, M A Y O R PRO TEM

ATTEST: J. Frank Gallagher
City Clerk

- - - - - - -

AN ORDINANCE 28791

MANIFESTING A CONTRACT BETWEEN THE CITY OF SAN ANTONIO AND M. R. MITCHELL & ASSOCIATES FOR ENGINEERING SERVICES ON CERTAIN SANITARY SEWER RELOCATION IMPROVEMENTS.

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:

1. This ordinance makes and manifests a contract between the City of San Antonio, hereinafter called "City", and M. R. MITCHELL & ASSOCIATES, hereinafter called "Engineer", as follows:

(1) Engineer agrees to perform or cause to be performed all of the professional engineering services hereinafter set forth in connection with the following designated SANITARY SEWER RELOCATION Projects:

SECTION I

CHARACTER AND EXTENT OF SERVICES

Engineer shall not commence work on a project until he has received written notification from the City. Engineer shall render the following professional services necessary for the development of the Project:

A. Preliminary Phase:

(1) Attend preliminary conferences with City officials regarding the project.

(2) Prepare a preliminary engineering study and report on the project, in sufficient detail to indicate clearly the problems involved, including locations of all existing or proposed utilities within the proposed project right-of-way and the alternate solutions available to the City; to include preliminary layouts, sketches, proposed location map showing additional right-of-way requirements, and cost estimates (excluding land costs) for the project, and to set forth clearly Engineer's recommendations. Such report shall conform to all applicable master plans as near as possible, and shall include a plan for coordinating and scheduling with other proposed projects where possible conflicts are involved.

(3) Furnish City five (5) copies of the preliminary report, including preliminary layouts, sketches and cost estimates, including an estimate of the time which will be required to complete the Field Survey and Plans and Specifications Phases after approval of preliminary phase by Director of Public Works.

B. Field Survey Phase:

(1) Perform all field surveys necessary to collect information required in the design of the project, establishing minimum of one permanent bench mark set to U. S. Coast & Geodetic Survey Datum, at a location approved by the City.

(2) Plan and supervise such other surveys, soil borings, foundation investigations and tests as may be required for design when authorized by City in accordance with Section IV-C.

C. Plans and Specifications Phase:

(1) Prepare detailed contract drawings and specifications for construction authorized by the City. These designs shall in all respects combine the application of sound engineering principles with a high degree of economy and shall be submitted to the applicable state and federal agencies for approval. On Sanitary Sewer Projects, Engineer shall design the sewer system to provide gravity flow connection to all properties abutting the sewer line. In instances where Engineer feels this is impossible or impracticable, such property shall be clearly indicated on the plans by lot and block number and house number together with the necessary elevation required for connection.

On Street Projects, Engineer shall furnish a plan showing the following:

ALIGNMENT
Beginning and ending stations
PC, PI & PT stations, deflection angles and R & L curves
Station and angle of intersection of side streets, alleys, drainage easements and railroad right-of-way.

RIGHT-OF-WAY
Show property lines of street project and intersecting side streets, alleys, drainage easements and railroad right-of-way.

UTILITIES
Show location of all existing underground utility mains, valves, manholes, clean-outs, fire hydrants, water meters, storm sewers, utility poles and guys. Indicate manholes and clean-outs to be adjusted.

EXISTING IMPROVEMENTS
Show existing curbs, sidewalks, driveways and drainage structures and indicate whether they are to remain or be removed.

PROPOSED IMPROVEMENTS
Show limits of construction. Show location of proposed curbs, sidewalks, driveways and drainage structures. Give station of curb and sidewalk ends and curb returns. Show 15' radii for curb having a central angle of 110° or less for returns unless otherwise approved by Director of Public Works. Show location of proposed drainage ditches. Show location and size of proposed storm sewers.

MISCELLANEOUS
Show all trees within right-of-way. Indicate direction of drainage at each intersection. Show grade at each curb return. Give location, description and elevation of Bench Marks. Bench Marks to be set to U. S. Coast and Geodetic Survey Datum. North arrow and scale. Show areas where crown is to be eliminated.

PROFILE
Show existing and proposed centerline of each street. Give top of curb grade at each curb end, each 50 foot station, each end of each curb return and at the PC, PI & PT of each vertical curve. Give the gradient of each grade tangent and the station, length and external of each vertical curve. Show the flow line elevations of each drainage structure, the flowline elevation of each storm sewer at each point of change of gradient and at each end and the intervening gradients. Show existing and proposed centerline of each drainage ditch and give flowline grade for each end and each 50 foot station. Show proposed transition grades for side streets.

TITLE SHEET
The title sheet shall include a map showing the location of the proposed construction and detour routes if required.

TYPICAL SECTIONS, CONSTRUCTION DETAILS AND ESTIMATED QUANTITIES
The typical street sections should show the proposed pavement width, type, thickness, and crown. The typical crown should be one quarter inch per foot slope from centerline to gutter. The typical sections should also show the curb or curb and gutter type and exposure, the proposed sidewalk dimensions and location in relation to property lines. Typical sections of drainage ditches should show bottom width and side slopes. Show construction details including dimensions and reinforcing of drainage structures. The tabulation of estimated quantities should show the quantity for each item of construction for each street.

CROSS SECTIONS
Cross sections must be submitted for approval, and shall be included in the final plans.

(2) Prepare detailed cost estimates and proposals of authorized construction, including summaries of bid items and quantities which shall be base, insofar as practicable, on the unit price system of bidding.

(3) Furnish to City, for approval, a copy of the final design plans and specifications before proceeding with Step 4.

(4) Furnish to the City all necessary copies of approved plans, specifications, notices to bidders, and proposals, in accordance with City's proposal form. (All sets of plans in excess of ten (10) are to be paid for separately unless otherwise agreed.)

(5) Assist City in the advertisement of the project for bids, and assist City in the opening and tabulation of bids for construction on the project, and recommend to City the proper action on all proposals received. Engineer shall furnish to City five (5) copies of the bid tabulation and of his recommendation with respect thereto.

(6) Assist in the preparation of formal contract documents for the award of contracts.

D. Construction Layout Staking Phase:

Perform the necessary engineering services in connection with the construction layout survey on the ground for the project. (Construction stakes, cut sheets, etc.) This service shall be performed upon request of the City, and not before.

STAKE-OUT (Specific requirements on street projects only)
Stake curb at ends, 50 foot stations, PC & PT of curves and each end of each return. Curb stakes are to be offset four (4) feet from face of curb unless otherwise approved by the Director of Public Works. Stake all radius points of curb returns. Stake sidewalks where required at ends and 50 foot stations. Sidewalk stakes are to be offset one (1) foot from property side of walk unless otherwise approved by the Director of Public Works. Where needed on sharp curves, stakes are to be set at intervals less than 50 feet. Cut sheets are to be prepared, with as many copies as needed. These will show cuts or fills from top of hub to top of curb and from top of hub to property side of walk unless otherwise specified by the Director of Public Works.

E. Construction Supervision Phase:

(1) Perform general supervision and administration of authorized construction (as distinguished from continuous resident field inspection), including periodic visits of Engineer, or a competent representative of Engineer, to the site of construction. In the administration of the project, Engineer shall endeavor to protect the City against defects and deficiencies in the work of contractors.

(2) Consult and advise with the City during construction. Submit to City weekly reports on progress of construction when requested by the City.

(3) Upon written request by City, furnish the services of a resident Engineer and/or inspector at a salary agreeable to the City for continuous on-the-site inspection of construction and the performance of construction layout surveys. Such resident Engineer or inspector shall be responsible for collection and submission of samples to a laboratory as designated by the City. Such services shall be computed on the basis of direct salary cost of the service plus a percentage of 25% of such cost. Transportation, if authorized, will be furnished at ten cents (10¢) per mile, not to exceed $25.00 per month.

(4) Check shop or working drawings furnished by contractors.

(5) Review all laboratory, shop and mill tests of materials and equipment for compliance with specifications.

(6) Prepare monthly and final estimates for payments to contractors, and furnish to the City any necessary certifications as to payments to contractors and suppliers.

(7) Supervise initial operation of the project, and supervise the necessary performance tests required by specifications.

(8) Perform, in company with the City's representatives, a final inspection of the project.

(9) Revise contract drawings to show the work as actually constructed, and furnish the City with one set of reproducible drawings. Final payment will be withheld until such drawings are furnished to the City.

SECTION II

PERIOD OF SERVICE

Unless a specific date is agreed upon, the services called for in Section I-A (Preliminary Phase) of this agreement will be completed, and the report submitted as expeditiously as possible.

After acceptance and approval by the City of the preliminary study and report, indicating any specific modifications or changes in scope desired by the City, the Engineer will proceed with the performance of the services called for in Section I-B and I-C (Field Surveys and Plans and Specifications Phases) of this agreement so as to deliver completed plans, specifications, and estimates of cost for all authorized construction on the project within the time outlined by the Engineer as specified in Section I-A (3). If the Engineer cannot complete the Field Surveys and Plans and Specifications Phases as outlined, he shall notify the City of this fact together with reasons for the delay for approval by the City. Following the award by the City of a construction contract or contracts, the Engineer will proceed with the performance of the services called for in Section I-E (Construction Supervision Phase) of this agreement.

This agreement shall remain in force for a period which may reasonably be required for the design, award of contracts and construction of the project including extra work and any required extensions thereto.

SECTION III

COORDINATION WITH THE CITY

The Engineer shall hold periodic conference with the City or its representatives, to the end that the project, as perfected, shall have full benefit of the City's experience and knowledge of existing needs and facilities, and be consistent with its current policies and construction standards. To implement this coordination, the City shall make available to the Engineer, for use in planning the project, all existing plans, maps, field notes, statistics, computations and other data in its possession relative to existing facilities and to the project.

SECTION IV

FEE SCHEDULE

For and in consideration of the services to be rendered by the Engineer, the City shall pay, and the Engineer shall receive the fees hereinafter set forth, for the Preliminary, Field Survey, Plans and Specifications, Construction Layout Staking, and Construction Supervision Phases of the work. The fee for each separate phase shall be based on the "construction cost" of each project authorized by the City and handled by the Engineer in accordance with this agreement. "Construction cost" is defined as the total cost to the City for the execution of the work authorized and handled in each separate phase, excluding fees for engineering and legal services, the cost of land, rights-of-way, legal and administrative expenses, but including the direct cost of all items of construction required for the complete work (including extras) and the actual value of all materials and equipment purchased or furnished directly by the City and incorporated in the project.

In the event that proposals for construction of any of the work authorized in the Plans and Specifications Phase are received within 90 days after submission of completed contract drawings and specifications, the fee for the corresponding services in the Plans and Specifications Phase, and the fee for the corresponding services in the Field Survey Phase, and the fee for the corresponding services in the Preliminary Phase shall be adjusted to the "construction cost" as reflected by the lowest acceptable proposal and adjustments shall be made in final settlement so that the engineering fee shall equal that due under Section A hereof. No reduction shall be made from the percentage fee on account of penalty or liquidated damages or other sums withheld from contractor's payments.

A. Fee Schedule

Basic minimum fee shall be based on construction cost of individual projects as listed under 1. of the preamble of this contract. Payment for services shall be made to the Engineer as determined by the following schedule:

Cost of Construction		Basic Minimum Fee in Percent		
		Classification		
		A	B	Alteration Work
Less than	$ 25,000	12.00	10.00	15.00
$ 25,001	50,000	10.00	8.50	12.00
50,001	100,000	9.00	7.50	11.00
100,001	250,000	8.00	6.75	10.00
250,001	500,000	7.00	6.00	9.00
500,001	750,000	6.50	5.50	
750,001	1,000,000	6.00	5.25	
1,000,001	10,000,000	5.65	5.00	
Over	10,000,000	5.00	4.50	

The schedule used for payment of services shall be based on Classification _____ above. The fee as computed from this schedule shall not be less than the maximum fee which would obtain if calculated under the next lower cost bracket.

For the purpose of establishing fees for separate phases, the following percentage allocations of the minimum scheduled fees apply:

PHASE	PERCENTAGE OF TOTAL FEE			
	A	B	C	D
Preliminary	25	15	10	
Field Survey	10	15	20	
Plans and Specifications	35	35	35	
Construction Layout Staking	10	10	25	
Construction Supervision	20	25	10	

Use Column A for Storm Drainage Projects
Use Column B for Sanitary Sewer Projects
Use Column C for Street Construction Projects
Use Column D for all other types of projects

B. Method of Payment

Payment shall be made as follows:

Preliminary Phase --------- total amount based on Engineer's cost estimate payable after approval of phase by the City.

Field Survey Phase
Plans & Specifications Phase
Construction Layout Staking Phase --- partial payment may be made monthly upon submission of an invoice by the Engineer.

Construction Supervision Phase ------ Payment will be made in monthly installments in proportions to the construction work completed and 15% of the total fee due in the construction phase will be retained and be paid within 30 days after acceptance of the completed project.

On any project for which bids are received within 90 days after the plans and specifications have been filed with the City by the Engineer, the bid accepted by the City shall be used as the true basis upon which the fee is calculated. In the event payments previously made to the Engineer exceed the true fee, then the Engineer agrees to pay the City such an amount which will make the total payments equal to the true fee.

In those projects where bids are taken on additional segments of work designed by the Engineer which may or may not be included at the City's option and the City elects to delete said additional segments, the Engineer's fee for said segments for the Preliminary, Field Survey, and Plans and Specifications Phases will be calculated on the basis of the difference between the cost of construction of the project as awarded and the low bid on the project plus the deleted segments as a whole whether or not the person submitting such low bid was awarded the contract.

If the project, for which detailed plans and specifications have been completed and submitted to the City, has not been advertised for bids within 90 days after acceptance of the complete plans and specifications by the City, then all of the fee specified above for the Preliminary, Field Survey, and Plans and Specifications Phases shall be paid by the City to the Engineer. Said payment shall be based on the estimated construction cost of the project. After a bid has been accepted, such bid shall constitute the true basis on which the Engineer's fee is calculated, and adjustments shall be made accordingly, so that the total fee paid to the Engineer shall be equal to the fee to which he is entitled hereunder, based on the actual cost of construction.

C. Services Not Included in Above Fees

The fees above described in the Preliminary, Field Survey, Plans and Specifications, Construction Layout Staking, and Construction Supervision Phases shall provide compensation to the Engineer for all services called for under this agreement to be performed by him, or under his direction, except the services set forth below. These excluded services, and the compensation to be paid by the City to the Engineer for their performance when authorized in writing by the City, are set forth as follows:

Service	Basis of Compensation
(1) Actual performance of test borings and other foundation investigations and related analyses, and detailed mill, shop and/or laboratory inspection of materials or equipment.	Furnished directly by City or to be agreed upon in writing.
(2) Restaking (to be done only when requested in writing by City)	
(a) Street Projects. Staking all destroyed hubs and checking alignment of existing hubs. Elevations on all hubs shall be reestablished. Restaking shall be done as specified in Section I-C (1) hereof, and a cut sheet based on such restake shall be prepared.	Salary cost plus 25% and reimbursement for other direct costs. Total cost not to exceed $70.00 per 1,000 lineal feet of street.
(b) Drainage and sanitary sewer projects.	To be agreed on in writing.
(3) Additional copies of reports, and additional blueprint copies of drawings and specifications over ten unless otherwise agreed.	Direct costs at standard reproduction cost.
(4) Assistance to the City as expert witness in any litigation with third parties, arising from the development or construction of the project.	$100.00 per diem for each day in which Engineer's presence is required by Owner.
(5) Expenses incurred in making necessary land surveys, establishing boundaries and monuments.	To be agreed upon in writing.
(6) Any extra services not included in contract but authorized by City in writing.	To be agreed upon in writing.

SECTION V

REVISION TO DRAWINGS AND SPECIFICATIONS

The Engineer will make, without expense to the City, such revisions of the preliminary drawings as may be required to meet the needs of the City, but after plans and specifications have been accepted and approved by the City, if a decision is subsequently made which, for its proper execution, involves extra services and expenses for change in, or addition to the drawings, specifications or other documents, or if the Engineer is put to labor or expense by delay imposed on him from causes not within his control, such as by the delinquency or insolvency of contractors, the Engineer shall be compensated for such extra services and expense, which services and expense shall not be considered as covered by the percentage fee stipulated in this agreement. Compensation for such extra services and expense shall be at salary cost plus 100%, plus reimbursement for other direct costs.

SECTION VI

OWNERSHIP OF DOCUMENTS

All documents, including original drawings, estimates, specifications, field notes and data will remain the property of the Engineer as instruments of service. However, the City shall have free access to all such information, with the right to make and retain copies of drawings and all other documents, including field notes and data.

SECTION VII

ARBITRATION OF DISPUTES

Should any dispute arise hereunder between the City and the Engineer as to any of the terms of provisions of this agreement or the obligations of the parties thereunder, the City and the Engineer shall submit such dispute to arbitration as follows:

A. The City and the Engineer shall each appoint an arbitrator, who together shall select a third arbitrator.

B. Arbitrators shall have full power to investigate such dispute, hear witnesses, examine papers, drawings, and documents, and take professional expert opinion thereon and shall arbitrate and decide such dispute to carry out the intentions of the parties and do justice between them. Their decision shall be a condition precedent to any court action.

C. In the event arbitrators are unable to agree upon the selection of the third arbitrator, or having selected such arbitrator, the three arbitrators are unable to reach an agreement, then the arbitration shall be considered to have been exhausted.

SECTION VIII

TERMINATION

The City may terminate this agreement at any time by a notice in writing to the Engineer. Upon receipt of such notice, the Engineer shall, unless the notice directs otherwise, immediately discontinue all services in connection with the performance of this agreement and shall proceed to cancel promptly all existing orders and contracts insofar as such orders or contracts are chargeable to this agreement. As soon as practicable after receipt of notice of termination, the Engineer shall submit a statement, showing in detail the services performed under this agreement to the date of termination. The City shall then pay the Engineer promptly that proportion of the prescribed fee which the services actually performed under this agreement bear to the total services called for under this agreement, less such payments on account of the fee as have been previously made. Copies of all completed or partially completed designs, plans and specifications prepared under this agreement shall be delivered to the City when and if this agreement is terminated.

SECTION IX

ASSIGNMENT OR TRANSFER OF INTERESTS

Engineer shall not assign or transfer his interest in this contract without the written consent of the City. Nothing herein shall be construed as creating any personal liability on the part of any officer, agent or employee of the City.

2. PASSED AND APPROVED this 11th day of August, 1959, A.D.

MIKE PASSUR
M A Y O R . PRO TEM

ATTEST:

City Clerk

3. Signed and accepted this 27th day of July, 1960, A.D.

M. S. Mitchell

AN ORDINANCE 28, 792

AUTHORIZING THE CITY MANAGER TO EXECUTE TWO AGREEMENTS WITH THE STATE OF TEXAS FOR THE LIGHTING OF EXPRESSWAYS (INTERSTATE HIGHWAY 35 AND INTERSTATE HIGHWAY 10) ON A 50% PARTICIPATION BASIS.

****

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. The City Manager is hereby authorized to execute two Agreements with the State of TEXAS on a 50% Participation Basis for the illumination of expressways as follows:

(a) Interstate Highway 35 from Division Avenue to Military Drive.

(b) Interstate Highway 10 from Woodlawn Avenue to Olmos Drive.

2. The agreements are attached hereto and made a part hereof.

3. PASSED AND APPROVED this 11th day of August, 1960.

MIKE PASSUR, M A Y O R PRO TEM

ATTEST: J. Frank Gallagher
City Clerk

C 17-9-9
I-35-2(53) 150
Bexar County

STATE OF TEXAS

COUNTY OF TRAVIS

THIS AGREEMENT, made this 11th day of August, 1960, by and between the City of San Antonio, Texas, hereinafter called the "City", Party of the First Part, acting by and through its City Manager and the State of Texas, hereinafter called the "State", Party of the Second Part, acting by and through its State Highway Commission.

WHEREAS, it is the desire of the State and City to construct an expressway illumination system on Interstate Highway No. 35 within the limits from 0.11 miles North of Division Avenue to 0.28 miles South of Military Drive in San Antonio. The State will construct or have constructed this work and the City will pay fifty per cent (50%) of the construction cost of this work, estimated to cost Eighty Eight Thousand Six Hundred and No/100 Dollars ($88,600.00), including contingencies and construction engineering. The City's estimated share of the cost of this work amounts to Forty Four Thousand Three Hundred and No/100 Dollars ($44,300.00).

NOW THEREFORE, it is understood that this proposed work, consisting of the construction of an expressway illumination system on Interstate Highway No. 35 within the limits from 0.11 miles North of Division Avenue to 0.28 miles South of Military Drive in San Antonio, will be constructed by the State. The total estimated construction cost of this work amounts to Eighty Eight Thousand Six Hundred and No/100 Dollars ($88,600.00), including contingencies and construction engineering. The City will pay fifty per cent (50%) of the construction cost of this work and it is estimated the City's share is Forty Four Thousand Three Hundred and No/100 Dollars ($44,300.00), and the City will transmit to the State with the return of this agreement, executed by the City, a warrant made payable to the State Treasurer, Account of Trust Fund No. 927 in the amount of Forty Four Thousand Three Hundred and No/100 Dollars ($44,300.00), to be used in paying for the City's share of the proposed work in the City of San Antonio. It is further understood that the State will construct only those items necessary for the completion of an expressway illumination system and fifty per cent (50%) of the construction cost of such items will be borne by the City. If the State elects to receive bids and if upon receipt of bids by the State and/or the actual construction and/or approved changes in the contemplated improvement it is found that this amount is insufficient to pay the City's portion, then the City upon request of the State will forthwith supplement this amount by an amount equal to the City's full estimated or actual share of the cost of this work less the amount previously paid into Trust Fund No. 927. In the event the amount as paid is more than the actual cost of the City's share, as herein established, then the excess amount will be returned to the City. It is further understood that the work to be done on behalf of the City, as herein provided, will include the cost of contingencies and construction engineering.

IN TESTIMONY WHEREOF, the parties hereto have caused these presents to be executed in duplicate on the day above stated.

CITY OF SAN ANTONIO
Party of the First Part

By: L. H. Andrews
City Manager

ATTEST:

J. Frank Gallagher
City Clerk

STATE OF TEXAS
STATE HIGHWAY COMMISSION
Party of the Second Part

Certified as being executed for the purpose and effect of activating and/or carrying out the orders, established policies, or work programs heretofore approved and authorized by the State Highway Commission:

By: _____
State Highway Engineer under authority of Commission Minute 30665

Recommended for execution:

_____
Engineer of Aid Projects

C 72-12-26
I-10-4(49) 576
Bexar County

STATE OF TEXAS

COUNTY OF TRAVIS

THIS AGREEMENT, made this 11th day of August, 1960, by and between the City of San Antonio, Texas, hereinafter called the "City", Party of the First Part, acting by and through its City Manager and the State of Texas, hereinafter called the "State", Party of the Second Part, acting by and through its State Highway Commission.

WHEREAS, it is the desire of the State and City to construct an expressway illumination system on Interstate Highway No. 10 within the limits from Woodlawn Avenue to Olmos Drive in San Antonio. The State will construct or have constructed this work and the City will pay fifty per cent K50%) of the construction cost of this work, estimated to cost Fifty One Thousand and No/100 Dollars ($51,000.00), including contingencies and construction engineering. The City's estimated share of the cost of this work amounts to Twenty Five Thousand Five Hundred and No/100 Dkllars ($25,500.00), and

WHEREAS, the City by the execution of this agreement agrees to the terms and conditions of State Highway Commission Minute No. 47635, as it applies to the City, a copy of which is attached hereto and marked "Exhibit A" and made a part of this agreement.

NOW THEREFORE, it is understood that this proposed work, consisting of the construction of an expressway illumination system on Interstate Highway No. 10 within the limits from Woodlawn Avenue to Olmos Drive in San Antonio, will be constructed by the State. The total estimated construction cost of this work amounts to Fifty One Thousand and No/100 Dollars ($51,000.00), including contingencies and construction engineering. The City will pay fifty per cent (50%) of the construction cost of this work and it is estimated the City's share is Twenty Five Thousand Five Hundred and No/100 Dollars ($25,500.00), and the City will transmit to the State with the return of this agreement, executed by the City, a warrant made payable to the State Treasurer, Account of Trust Fund No. 927 in the amount of Twenty Five Thousand Five Hundred and No/100 Dollars ($25,500.00), to be used in paying for the City's share of the proposed work in the City of San Antonio. It is further understood that the State will construct only those items necessary for the completion of an expressway illumination system and fifty per cent (50%) of the construction cost of such items will be borne by the City. If the State elects to receive bids and if upon receipt of bids by the State and/or the actual construction and/or approved changes in the contemplated improvement it is found that this amount is insufficient to pay the City's portion, then the City upon request of the State will forthwith supplement this amount by an amount equal to the City's full estimated or actual share of the cost of this work less the amount previously paid into Trust Fund No. 927. In the event the amount as paid is more than the actual cost of the City's share, as herein established, then the excess amount will be returned to the City. It is further understood that the work to be done on behalf of the City, as herein provided, will include the cost of contingencies and construction engineering. It is further understood that the City by the executiion of this agreement agrees to the terms and conditions of State Highway Commission Minute No. 47635, as it applies to the City, a copy of which is attached hereto and marked "Exhibit A" and made a part of this agreement.

IN TESTIMONY WHEREOF, the parties hereto have caused these presents to be executed in duplicate on the day above stated.

CITY OF SAN ANTONIO
Party of the First Part

By: L. H. Andrews
City Manager

ATTEST:

J. Frank Gallagher
City Clerk

STATE OF TEXAS
STATE HIGHWAY COMMISSION
Party of the Second Part

Certified as being executed for the purpose and effect of activating and/or carrying out the orders, established policies, or work programs heretofore approved and authorized by the State Highway Commission:

By: _____
State Highway Engineer under authority of Commission Minute 30665

Recommended for execution:

_____
Engineer of Aid Projects

WHEREAS, in BEXAR COUNTY on INTERSTATE HIGHWAY 10, the City of San Antonio has requested the construction of an Illumination System from Woodlawn Avenue to Olmos Drive; and

WHEREAS, the City of San Antonio has requested such construction under the provisions of Minute Order 28464, whereby the State Highway Department and the City of San Antonio will participate on an equal basis in the construction, maintenance and operating cost of such facility;

NOW, THEREFORE, the State Highway Engineer is directed to preceed with construction of an Illumination System within these limits in accordance with the provisions of Minute Order 28464, at an estimated State cost of $25,000.00, financing the cost in the 1961-1962 Interstate Construction Program.

This Order is subject to acceptance by the City of San Antonio and, if not accepted within 90 days of the date hereof, shall be auto-matically cancelled.

Minute No. 47635
April 25, 1960

COPY

"EXHIBIT A"

AN ORDINANCE 28, 793

AUTHORIZING THE CANCELLATION OF A CERTAIN INSURANCE CONTRACT BY THE CITY OF SAN ANTONIO WITH GLOBE INDEMNITY COMPANY AND THE EXECUTION OF A CERTAIN INSURANCE CONTRACT BY THE CITY OF SAN ANTONIO WITH AMERICAN AND FOREIGN INSURANCE COMPANY AND AUTHORIZING PAYMENT OF THE INSURANCE PREMIUM ON THE LATTER.

****

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. The City Manager is hereby authorized to execute contracts and any endorsements required with the cancellation and purchase of insurance policies as follows:

a. Cancellation, effective August 15, 1960, of the unexpired term of Globe Indemnity Company Policy No. 80-07-86 which provided fire and extended coverage insurance for the period August 15, 1959 to August 15, 1962.
Refund: $18,640.82

b. Purchase of a policy with American and Foreign Insurance Company which will provide fire and extended coverage insurance for the period August 15, 1960 to August 15, 1963.
Premium: $23,287.65.

2. That payment of the difference between premium on the new policy and refund on the cancelled policy, both described hereinbefore, is authorized as follows:

a. The sum of $4,646.83 to F. F. Ludolph and Company, 514 Gunter Guilding, San Antonio 5, Texas.

3. PASSED AND APPROVED this 11th day of August, A. D., 1960.

MIKE PASSUR, M A Y O R PRO TEM

ATTEST: J. Frank Gallagher
City Clerk

- - - - - - -

AN ORDINANCE 28, 794 ✓ Personnel

MAKING CERTAIN CHANGES IN THE 1960-61 PAY PLAN.

****

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. The indicated changes are hereby made in the 1960-60 Pay Plan:

a. Positions created:

Class No.	Position	Range	Min-Max
059	Safety Inspector	19	330-425
091	Assistant Director of Housing & Inspections	29	505-665
125	Traffic Signal Engineer	29	505-665
402	Park Maintenance Supervisor	20	345-445
418	Parks Cknstruction Supervisor	20	345-445
624	School Crossing Guard Supervisor	9	1.25
706	Cemetery Maintenance Foreman	15	280-360
790	Shop Coordinator	25	425-555
802	Posting Machine Operator	11	240-300

b. Positions Upgraded:

025	EAM Operator	From:	11	240-300
		To:	13	260-330
100	Chainman	From:	5	180-240
		To:	7	200-260
103	Rodman	From:	7	200-260
		To:	9	220-280
105	Instrument Man	From:	11	240-300
		To:	13	260-330
110	Survey Party Chief	From:	17	300-390
		To:	19	330-425
133	Traffic Engineer	From:	29	505-665
		To:	33	605-795
253	Insect & Rodent Controlman	From:	5	180-240
		To:	7	200-260
254	Animal Controlman	From:	5	180-240
		To:	7	200-260
623	School Crossing Guard	From:	1	1.00
		To:		1.15
737	Sewage Plant Attendant	From:	5	180-240
		To:	7	200-260
760	Maintenance Repairman	From:	7	200-260
		To:	9	220-280

(b. Positions Upgraded- continued)

Class No.	Positions		Range	Min-Max
776	Garage Attendant	From:	5	180-240
		To:	7	200-260
793	Line Attendant	From:	7	200-260
		To:	9	220-280
794	Parking Meter Mechanic	From:	7	200-260
		To:	9	220-280
074	Pre-Police Student	From:		310 Base
		To:		330 Base
c. Positions Downgraded:				
730	Garbage Superintendent	From:	23	390-505
		To:	21	360-465
d. Positions Abolished:				
729	Assistant Garbage Superintendent		21	360-465

2. PASSED AND APPROVED this 11th day of August, 1960.

MIKE PASSUR, M A Y O R PRO TEM

ATTEST: J. Frank Gallagher
City Clerk

- - - - - - - -

AN ORDINANCE 28, 795

Condemnation

Amended Oct 6, 1960 ord. 29024

DECLARING A PUBLIC NECESSITY FOR THE ACQUISITION OF CERTAIN PRIVATELY -OWNED REAL PROPERTY SITUATED WITHIN THE CORPORATE LIMITS OF THE CITY OF SAN ANTONIO, FOR PUBLIC PURPOSES, TO-WIT: TO PROVIDE RIGHT-OF-WAY FOR PUBLIC DRAINAGE AND FLOOD CONTROL (STORM DRAINAGE PROJECT 56): AND, DIRESTING THE CITY ATTORNEY TO INSTITUTE AND PROSECUTE TO CONCLUSION CONDEMNATION PROCEEDINGS TO ACQUIRE SO MUCH THEREOF AS CANNOT BE ACQUIRED BY PURCHASE.

****

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. Public necessity requires that the City of San Antonio acquire certain privately owned real property situated within its corporate limits for public purposes, to-wit: To provide right-of-way for Storm Drainage Project 56, said right-of-way to be used in the construction and improvement of Storm Drainage facilities and purposes incidental thereto, as shown by a map prepared by the Department of Public Works and filed in the office of the City Clerk.

2. The City Attorney is hereby directed to institute and prosecute to conclusion all necessary proceedings to condemn the fee or in the alternative, any lesser interests to which the City may be entitled for so much of said property as the City of San Antonio is unable to purchase by reason of its inability to agree with the owners thereof as to the value of such property, or in order to obtain clear title thereto, or for any other legal reason.

3. PASSED AND APPROVED this the 11th day of August, A. D., 1960.

MIKE PASSUR, M A Y O R PRO TEM

ATTEST: J. Frank Gallagher
City Clerk

- - - - - - -

AN ORDINANCE 28, 796

ABANDONING A SANITARY SEWER EASEMENT OVER A PORTION OF LOT 10, BLOCK 1, N. C. C. 12,193; AUTHORIZING THE CITY MANAGER TO EXECUTE A QUITCLAIM THEREOF TO A. A. SHEPHERD AND WIFE, EDITH M. SHEPHERD IN EXCHANGE FOR THE DEDICATIIN BY SAID PARTIES OF ANOTHER SANITARY SEWER EASEMENT.

****

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. The Sanitary Sewer Easement, dedicated to the City of San Antonio by A. A. Shepherd and wife, Edith M. Shepherd, over a portion of Lot 10, Block 1, N. C. B. 12,193, San Antonio, Bexar County, Texas, more particularly described in the easement filed for record in Volume 4275, at Page 290 of the Deed Records of Bexar County is hereby released and abandoned.

2. The City Manager is hereby authorized to Quitclaim and release the Easement described in Paragraph 1 above to A. A. Shepherd and wife, Edith M. Shepherd, in exchange for the dedication by said parties of a new Sanitary Easement in Lot 10, Block 1, N. C. B. 12,193, San Antonio, Bexar County, Texas. Said Quitclaim Deed is attached hereto and made a part hereof.

3. The new easement from A. A. Shepherd and wife, Edith M. Shepherd, over a portion of Lot 10, Block 1, N. C. B. 12,193, is attached hereto and made a part hereof and is hereby accepted.

4. PASSED AND APPROVED this 11th day of August, 1960.

MIKE PASSUR, M A Y O R PRO TEM

ATTEST: J. Frank Gallagher
City Clerk

- - - - - - -

AN ORDINANCE 28, 797

ABANDONING A PORTION OF THE ALLEY DIVIDING NEW CITY BLOCKS 13167 AND 11604 AND AUTHORIZING THE CITY MANAGER TO QUITCLAIM SAME TO JAMES S. MAVERICK IN EXCHANGE FOR THE DEDICATION BY REPLATTING OF A COMPARABLE PARCEL OF PROPERTY.

****

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. That portion of the alley in New City Blocks 13167 and 11604 referred to in the accompanying Quitclaim Deed, which is incorporated herein for all things, is hereby abandoned, and the City Manager is hereby authorized to execute the said Quitclaim Deed, save and except a utility easement, over, across, under, and upon that parcel to James S. Maverick upon his dedication by replatting of a similar parcel of property out of Lot 6, New City BLock 13167 to be used for alley purposes.

2. PASSED AND APPROVED this 28th day of July, 1960.

MIKE PASSUR, M A Y O R PRO TEM

ATTEST: J. Frank Gallagher
City Clerk

- - - - - - -

AN ORDINANCE 28, 798

amended Ord 28821 8/25/60

CLOSING AND ABANDONING PORTIONS OF CERTAIN ALLEYS IN NEW CITY BLOCK 2119; AND AUTHORIZING THE CITY MANAGER TO EXECUTE A QUITCLAIM THEREOF TO SAM JORRIE IN CONSIDERATION FOR THE DEDICATION OF ANOTHER ALLEY IN NEW CITY BLOCK 2119 AND THE PAYMENT OF $250.00.

****

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. Those portions of the alleys in New City Block 2119, San Antonio, Bexar County, Texas, more particularly described by field notes marked Exhibits 1 and 2 attached hereto and incorporated herein by reference are hereby closed and abandoned.

2. The City Manager is hereby authorized to execute a Quitclaim Deed to the portions of the alleys described in Paragraph 1 above to Sam Jorrie in consideration for the dedication of a new alley in New City Block 2119 shown on the resubdivision plat attached hereto and made a part hereof and the payment of $250.00.

3. The Quitclaim Deed is attached hereto and made a part hereof.

4. PASSED AND APPROVED this 11th day of August, 1960.

MIKE PASSUR, M A Y O R PRO TEM

ATTEST: J. Frank Gallagher
City Clerk

QUITCLAIM DEED
****

STATE OF TEXAS (
) KNOW ALL MEN BY THESE PRESENTS:
COUNTY OF BEXAR (

That the City of San Antonio, a municipal corporation, of the County of Bexar, State of Texas, acting by and through Charles F. Bissett, Chief Administrative Aide to the City Manager, pursuant to Ordinace No._____, dated the_____day of _____, A. D., 1960, for and in consideration of the payment of $250.00 and the dedication by Sam Jorrie of a new alley in New City Block 2119, San Antonio, Texas, shown on the Resubdivision Plat of Jorrie Subdivision: has BARGAINED, SOLD, QUITCLAIMED And RELEASED, and by these presents does BARGAIN, SELL, QUITCLAIM and RELEASE, unto the said Sam Jorrie, all its rights, title, interest and estate in and to the following described parcels of land situated in Bexar County, Texas, to-wit:

Field Notes for Closing 20' Alley in N. C. B. 2119

Field Notes for a tract or parcel of land, being all of that 20' alley in N. C. B. 2119 extending from the South line of Poplar Street to the North line of a 19.6' alley in N. C. B. 2119, San Antonio, Texas, and being more particularly described as follows, to-wit:

BEGINNING at the Northeast corner of Lot 5, N. C. B. 2119 in the South line of Poplar Street;

THENCE Easterly 20' along the South line of Poplar Street extended across said 20' alley, to a point in same, the Northwest corner of present Lot 6, N. C. B. 2119; said point being Westerly 30.0' measured along the South line of Poplar Street from the Northeast corner of original Lot 6, N. C. B. 2119;

THENCE Southerly 160.0' along the East line of the said 20' alley, said line being the present East line of Lot 6, N. C. B. 2119, to a point in the North line of said 19.6' alley in N. C. B. 2119, at the Northwest corner of Lot 18, N. C. B. 2119, Lot 18 having been established by Ordinance of the City of San Antonio, dated September 3, 1953, Recorded in Volume 3395 at Page 288 of the Deed Records of Bexar County, Texas;

THENCE Westerly 20' along the North line of said 19.6' alley in N. C. B. 2119 extended across the herein described 20' alley, to a point in same, the Southeast corner of said Lot 5, N. C. B. 2119;

THENCE Northerly 160.0' along the East line of said Lot 5, N. C. B. 2119, to the place of beginning.

Containing: 0.073 acres of land, more or less.

Field Notes for Closing Portion of Alley in N. C. B. 2119.

Field Notes for a tract or parcel of land, being a portion of a 19.6' alley in N. C. B. 2119, San Antonio, Texas, and being more particularly described as follows, to-wit:

BEGINNING At a point in the South line of said 19.6' alley in N. C. B. 2119, at the Southwest corner of Lot 18, N. C. B. 2119, said Lot 18 having been established by Ordinance of the City of San Antonio, dated September 3, 1953, Recorded in Volume 3395 at Page 288 of the Deed Records of Bexar County, Texas, said point of beginning also being in the North line of Lot 13, N. C. B. 2119, and being Easterly 20' measured along the North line of said Lot 13 from its Northwest corner;

THENCE Westerly 100' along the South line of said 19.6' alley in N. C. B. 2119, same being the North line of Lots 13, 12, 11, N. C. B. 2119, to a point in same, said point being Easterly 20' measured along the South line of said 19.6' alley in N. C. B. 2119, from the Northwest corner of Lot 11, N. C. B. 2119;

THENCE Northerly 19.6' across said 19.6' alley in said N. C. B. 2119, to a point in its North line, said point being Westerly 30' measured along the South line of Lot 4, N. C. B. 2119, from the Southeast corner of said Lot 4;

THENCE Easterly 100' along the North line of said 19.6' alley in N. C. B. 2119, same being the South line of Lots 4 and 5, and said South line extended, to a point at the Northwest corner of said Lot 18, the present Southwest corner of Lot 6, N. C. B. 2119;

THENCE Southerly 19.6' across said 19.6' alley in N. C. B. 2119, same being the West line of said Lot 18 to the place of beginning.

Containing: 0.045 acres of land, more or less.

together with all of the City's right, title, and interest to all and singular the hereditaments and appurtenances thereunto belonging or in any wise appertaning.

TO HAVE AND TO HOLD the above described premises unto the said Sam Jorrie, his heirs, successors and assigns forever.

It is expressly agreed between the parties hereto that any liens expressed or implied arising from the hereinabove exchange of properties, are hereby waived.

EXECUTED this_____day of_____, A. D., 1960.

CITY OF SAN ANTONIO

By:_____
Charles F. Bissett
Chief Administrative
Aide to the City Manager

- - - - - - -

AN ORDINANCE 28, 799

AUTHORIZING THE CITY MANAGER TO EXECUTE A CONTRACT WITH THE MISSOURI-KANSAS-TEXAS RAILROAD COMPANY FOR THE CONSTRUCTION OF A STORM DRAINAGE STRUCTURE ON SAID RAILROAD PROPERTY (STORM DRAINAGE PROJECT 9 & 9A).

****

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. The City Manager is hereby authorized to execute a contract with the Missouri-Kansas-Texas Railroad Company for the construction of a storm drainage structure on railroad right-of-way (Storm Drainage Project 9 & 9A) on an actual cost basis.

2. The contract is attached hereto and made a part hereof.

3. PASSED AND APPROVED this 11th day of August, 1960.

MIKE PASSUR, M A Y O R PRO TEM

ATTEST: J. Frank Gallagher
City Clerk

Parcels 3871 thru 3877
Storm Drainage 9 & 9A

STATE OF TEXAS

COUNTY OF BEXAR

THIS AGREEMENT, made and entered into by and between the CITY OF SAN ANTONIO, a municipal corporation of the State of Texas, and MISSOURI-KANSAS-TEXAS RAILROAD COMPANY, A corporation, hereinafter styled "Railroad Company", Party of the Second Part;

W I T N E S S E T H

WHEREAS, the City desires to begin construction of a storm drainage project under and across the right-of-way of the Railroad Company at Bridge M-1031.8 on I. C. C. Spur No. 45, (Military Reservation Spur); and,

WHEREAS, plans and specifications covering the construction of a double 10-foot by 6-foot Reinforced Concrete Box on, under and across Railroad Company's right-of-way and track of I. C. C. Spur No. 45 (Military Reservation Spur) at Bridge No. M-1031.8 have been prepared by the City and have been approved by the Railroad Company, and

WHEREAS, the City has requested the Railroad Company furnish an easement for the construction and maintenance of the proposed storm sewer improvements under and across Railroad Company's right-of-way at Bridge No. M-1031.8 and,

WHEREAS, Railroad Company is agreeable to City's said plan for the Storm Drainage Project, under Bond Project 9-9A at Bridge No. M-1031.8 and has granted said easement on the terms and conditions hereinafter set forth;

NOW, THEREFORE, the parties hereto mutually covenant and agree to and with each other as follows:

1. The Missouri-Kansas-Texas Railroad Company, predecessor to the Railroad Company, has heretofore delivered to the City an easement on, under and across the right-of-way and property of the Railroad Company in the City of San Antonio, Bexar County, Texas, all as shown outlined in red on Railroad Company's Drawing No. A 26,760 dated April 14, 1960, attached hereto as Exhibit "A" and made a part hereof, for the purpose of constructing and maintaining a closed storm sewer, said easement executed April 22, 1960, being recorded in Vol. 4463, P. 371, of the Deed Records, Bexar County, Texas.

2. The City agrees to construct or cause to be constructed a double 10 x 6 foot Reinforced Concrete Box all in accordance with plans and specifications entitled Storm Drainage Project 9-9A, prepared by Johnson and Marquis, Consulting Engineers for said project, City of San Antonio.

No change in these plans and specifications are to be made without the written approval of such changes by the City and the Railroad Company.

3. The parties agree and understand that during the construction of said Storm Drainage Project it will be necessary for the Railroad Company to operate trains, switch engines and cars over its existing track. The Railroad Company's I. C. C. No. 45 Spur (Military Reservation Spur) track must be maintained and supported on temporary timber falsework trestle, all as shown on the City's drawings and indicated in the specifications.

4. The storm drainage project will be constructed at Bridge No. M-1031.8 (Military Reservation Spur) by the City and Railroad Company as shown in the following sequence of construction:

Stage 1. Railroad Company shall remove the superstructure of the existing bridge M-1031.8, remove the existing piling within the limits of the false work to ground elevation and construct the falsework necessary to carry their rail traffic during the period of construction of the box culvert.

Stage 2. The Storm Sewer Constractor shall construct a double 10' x 6' x 55'8-5/12" concrete box culvert at station 41-58.42 as follows:

(a) Storm Sewer Contractor shall excavate for the 10' x 6' box culvert and cut off all piles to an elevation 12" below the bottom of the concrete box culvert.

(b) Storm Sewer Contractor shall construct the double 10' x 6' x 55'8-5/16" concrete box culvert and backfill to the top of the box culvert and continue as high as practicable. The contractor shall leave the individual portions of the concrete box culvert shored until the concrete has reached the age of 28 days or if high-early strength cement is used the shoring shall remain in place for 7 days.

Stage 3. The railroad company shall remove the falsework.

Stage 4. The Contractor shall immediately backfill and compact the subgrade to the elevation of the bottom of the ballast. This work shall be done so that the ballast and rails may be replaced the same day that the falsework was removed.

Stage 5. The railroad company shall place the ballast, ties and rails.

5. It is estimated that the total cost to the Railroad Company of performing the work

herein agreed to is the sum of $6,635.00, as reflected by detailed estimate made by Railroad Company's Chief Engineer under date of July 19, 1960, hereto attached, marked Exhibit "B", and made a part hereof. The Railroad Company will be reimbursed by the City for the actual cost of the work performed by the Railroad Company after completion of the herein agreed to work, whether more or less than the estimated cost of $6,635.00, upon receipt of a statement of actual costs which shall give credit for any salvage.

6. The City agrees that it will require its contractor, including any of the contractor's subcontractors, during the consturction of the said storm drainage project on Railroad Company right-of-way and premises to perform such work in a manner as will not interfere with the safe operation of the Railroad Company's facilities and as will permit the Railroad Company to safely operate its trains without delay. The Railroad reserves the right to maintain an Inspector on the job at all times.

7. The City agrees that it will not perform, nor will it permit its contractor, or any subcontractor of its contractor, to perform any work upon the Railroad Company's right-of-way and premises until the City's Contractor shall have executed an agreement with the Railroad Company, in the form attached as Exhibit "C" attached hereto and made part hereof, covering the operations and work of such contractors and/or any of its subcontractors on the right-of-way and premises of the Railroad Company, all in accordance with the City's specifications covering the construction of said storm drainage project.

8. The City agrees that it will require:

(a) Its contractor to furnish to the Railroad Company evidence that it has in force regular Protective Property Damage liability insurance having liability limit of $25,000/ $50,000 for any one accident or occurrence and regular Contractor's Public Liability insurance having liability limits of $100,000 for bodily injury to or death of one person and $200,000 for bodily injury to or death of more than one person as the result of any one accident or occurrence.

(b) The Contractor shall provide the usual Workmen's Compensation Insurance required by the laws of the State of Texas.

(c) Contractor agrees to keep the insurance called for above in full force and effect during the entire term of this contract and until the work at Bridge No. M-1031.8 on the easement described in No. 1 hereof is accepted by the City. None of this insurance will be cancelled without the City and Railroad Company being given fifteen (15) days notice of the intended cancellation. Certificates that the above insurance, is in force shall be furnished to the Railroad Company by the Contractor.

9. It is understood and agreed between the parties hereto that the rights herein granted to the City by the Railroad Company shall not prevent in any way the Railroad Company, its successors, assigns, tenants or lessees from constructing, reconstructing, operating, rearranging and maintaining any existing or future tracks, pipe lines, communication lines, signal lines, electric lines or other facilities upon, over and across the Railroad Company's right-of-way and premises.

10. This agreement shall be binding upon the legal successors and assigns of the parties hereto.

IN TESTIMONY HEREOF, the parties have executed this agreement, in duplicate, on this the _____day of_____,1960.

ATTEST: CITY OF SAN ANTONIO

_____ By:_____
City Secretary City Manager or City Official

APPROVED AS TO FORM:

_____ MISSOURI-KANSAS-TEXAS RAILROAD COMPANY

BY:_____

ATTEST:

_____

\- - - - - -

AN ORDINANCE 28, 800

APPROPRIATING $43,425.00 OUT OF FUND, STORM SEWER AND DRAINAGE BONDS, 1957 ACCOUNT, #479-13 FOR THE ACQUISITION OF LAND FOR STORM DRAINAGE PROJECT 58A.

****

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. The following amounts are hereby appropriated out of Storm Sewer and Drainage Bonds, 1957 Account Fund #479-13 for the acquisition of certain parcels of land to be used for the construction of storm drainage Project 58A.

a. $500.00 payable to the Commercial Abstract and Title Company as escrow agent

for Anthony S. Jungmann and wife, Delphine Jungmann, for a permanent easement over, across, under and upon the South 10 feet of Lot 3, Block 70, N. C. B. 3667, San Antonio, Bexar County, Texas, Parcel No. 3967.

b. $1,000.00 payable to the Commercial Abstract and Title Company as escrow agent for Cirilo Garcia and wife, Paulina A. Garcia, for a permanent easement over, across, under, and upon the North 53 feet of Lots 9 and 10, Block 70, N. C. B. 3667; San Antonio, Bexar County, Texas, Parcel Nos. 3968 and 3970.

c. $7,850.00 payable to the Commerical Abstract and Title Company as escrow agent for Rafael Tijerina and wife, Dolores Tijerina for fee title to the North 50 feet of Lots 7 and 8, N. C. B. 3667, San Antonio, Bexar County, Texas, Parcel Nos. 3972 and 3974.

d. $300.00 payable to the Commercial Abstract and Title Company as escrow agent for Rolando Viegra and wife, Providencia Viegra, for a permanent easement over, across, under, and upon the South 10 feet of Lot 6, N. C. B. 3667 Drainage and Utilities, Parcel No. 3973.

e. $600.00 payable to the Commercial Abstract and Title Company as escrow agent for Max Ponce Lopez and wife, Maria A. Lopez, for a permanent easement over, across, under and upon a rectangular tract off the North or rear end of Lot 14, N.C.B. 3667, Lakeview Addition, City of San Antonio, Bexar County, Texas, Parcel No. 3975.

f. $3,000,00 payable to the Commercial Abstract and Title Company as escrow agent for Jesue Zorola and wife, Carmen A. Zorola, for a permanent easement over, across, under, and upon a triangular tract off the Southeast corner of Lot 1, N. C. B. 3667, Lakeview Addition, City of San Antonio, Bexar County, Texas, Parcel No. 3975.

g. $10,000.00 payable to the Commercial Abstract and Title Company as escrow agent for Fred V. Morin and wife, Cora L. Morin, for fee title to Lot 3, Block 69, N. C. B. 3667, San Antonio, Bexar County, Texas, Parcel No. 3979.

h. $6,000.00 payable to the Commercial Abstract and Title Company as escrow agent for Gloria G. Palacios and husband, Raul Palacios and Thomas R. Garza, for fee title to Lot 12, Block 58, N. C. B. 3656, Lakeview Addition, lying and being situated within the corporate limits of the City of San Antonio, Bexar County, Texas, Parcel No. 3981.

i. $6,500.00 payable to the Commercial Abstract and Title Company as escrow agent for Jesus Robles and wife, Cleotilde G. Robles, for fee title to Lot 3, Block 55, N. C. B. 3655, San Antonio, Bexar County, Texas, Parcel No. 3987.

j. $7,375.00 payable to the Commercial Abstract and Title Company as escrow agent for Marcelo Gil and wife, Atanacia Gil, for fee title to Lot 2, Block 55, N. C. B. 3655, San Antonio, Bexar County, Texas, Parcel No. 3986.

k. $300.00 payable to the Commercial Abstract and Title Company as escrow agent for J. C. Killough, for a permanent easement over, across, under and upon a trapezoidal tract off the Southern part of Lot 11, N. C. B. 8893, Cenizo Park Addition, City of San Antonio, Bexar County, Texas, Parcel No. 4056.

2. PASSED AND APPROVED this 11th day of August, 1960.

MIKE PASSUR, M A Y O R PRO TEM

ATTEST: J. Frank Gallagher
City Clerk

\- - - - -

AN ORDINANCE 28, 801

ABANDONING AND CLOSING PORTIONS OF LAURENS STREET DIGNOWITY; AND AUTHORIZING THE CITY MANAGER TO EXECUTE A QUITCLAIM THEREOF TO THE TEXAS VEGETABLE OIL COMPANY IN EXCHANGE FOR THE DEDICATION OF A STORM DRAINAGE EASEMENT IN THE VICINITY BEING A PART OF CITY PROJECT 9 AND 9A.

****

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. Those portions of Laurens Street and Dignowity Avenue more particularly described by field notes marked Exhibit "A" and incorporated herein by reference, are hereby foreever closed and abandoned.

2. The City Manager is hereby authorized to execute a Quitclaim Deed to the portions of Laurens Street and Dignowity Avenue abandoned in Paragraph 1 above to the Texas Vegetable Oil Company in exchange for the dedication by said Company of a Storm Drainage Easement 80 feet wide through Block 3, New City Block 1197, San Antonio, Bexar County, Texas, Parcel 3858, Storm Drainage Project 9 and 9A.

3. The Quitclaim Deed is attached hereto and made a part hereof.

4. The Storm Drainage Easement dedicated by Texas Vegetable Oil Company is attached hereto and made a part hereof and is hereby accepted.

5. PASSED AND APPROVED this 11th day of August, 1960.

MIKE PASSUR, M A Y O R PRO TEM

ATTEST: J. Frank Gallagher
City Clerk

QUITCLAIM DEED
****

STATE OF TEXAS

KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF BEXAR

That the City of San Antonio, a municipal corporation of the County of Bexar, State of Texas, acting by and through Charles F. Bissett, Chief Administrative Aide to the City Manager, pursuant to Ordinance No. 28801, dated the 11th day of August, 1960, duly passed by the City Council of the City of San Antonio, for and in consideration of the dedication of a Storm Drainage Easement by the Texas Vegetable Oil Company more particularly described as follows:

A parcel of land 80 feet in width out of Block 3, New City Block 1197, GOVERNMENT HEIGHTS, in the City of San Antonio, Bexar County, Texas, beginning at a point in the North line of New City Block 1197, said point being 29.43 feet N. 76° 32' East from the intersection of the East line of Laurens Street with the South line of the old Seguin Road;

THENCE continuing with the South line of the old Seguin Road North 76° 32' East 80.02 feet to a point for corner;

THENCE through said New City Block 1197, South 12° 00' 55" East 233.80 feet to a point in the North line of Dignowity Avenue, for corner;

THENCE Southwest with the North line of Dignowity Avenue, South 76° 32' West 80.02 feet to a point for corner;

THENCE through said New City Block 1197, North 12° 00' 55" West 233.80 feet to the point of beginning, containing 18,640 square feet;

together with the right of ingress and egress over said right-of-way for the purpose of constructing, re-constructing, inspecting, repairing and maintaining a storm sewer and surface water drainage channel and all necessary appurtenances therin; and the right to remove from said right-of-way all trees and parts thereof, or other obstructions, which endanger or may interfere with the exercise of the rights herein granted; acceptance of which is hereby acknowledged and confessed has BARGAINED, SOLD, QUITCLAIMED AND RELEASED unto the said Texas Vegetable Oil Company all its right, title, interest, and estate in the following described certain portions of Dignowity Avenue and Laurens Street, both streets being public streets in San Antonio, Bexar County, Texas, more particularly described as follows:

<u>Field Notes for vacating a portion of Dignowity Avenue and Laurens Street, San Antonio, Texas</u>

BEGINNING at an iron pin set for the Northwest corner of New City Block 1197, said corner being the point of intersection of the South right-of-way line of the Old Seguin Road and the East right-of-way line of Laurens Street;

THENCE, with the east line of Laurens Street and the West line of N. C. B. 1197 South 240.0 feet to an iron pin set for the Southwest corner of N. C. B. 1197; said corner being the point of intersection of East line of Laurens and the North line of Dignowity;

THENCE with the North line of Dignowity and the South line of N. C. B. 1197, North 76° 52' East 78.05' to a point on the West line of a 86.0 feet drainage easement;

THENCE with the West line of said 86.0 feet drainage easement South 11° 41' 15" East 50.01 feet to a point on the South line of Dignowity Avenue;

THENCE with the South line of Dignowity Avenue South 76° 52' West 88.45 feet to the point of intersection of the South line of Dignowity Avenue and the East line of Laurens Street, said point being the Northwest corner of N. C. B. 1202;

THENCE with the East line of Laurens Street and the West line of N. C. B. 1202, South 240.0 feet to the point of intersection of the East line of Laurens Street and the North line of Runnels Avenue, said point being the Southwest corner of N. C. B. 1202;

THENCE with the North line of Runnels Avenue, South 76° 52' West 51.34 feet to an iron pin for the Southeast corner of N. C. B. 1201, said corner being the point of intersection of the North line of Runnels Avenue and the West line of Laurens Street;

THENCE with the West line of Laurens Street and the East line of N. C. B. 1201 North 240.0 feet to an iron pin for the Northeast corner of N. C. B. 1201, said corner being the point of intersection of the South line of Dignowity Avenue and the West line of Laurens Street;

THENCE with the South line of Dignowity Avenue and the North line of N. C. B. 1201, South 76° 52' West 308.0 feet to the Northwest corner of N. C. B. 1201, said corner being the point of intersection of the South line of Dignowity Avenue and the East line of Frank Street;

THENCE with the East line of Frank Street, North 51.34 feet to an iron pin set for the Southwest corner of N. C. B. 1198, said point being the intersection of the North line of Dignowity Avenue and the East line of Frank Street;

THENCE with the North line of Dignowity Avenue North 76° 52' East 308.0 feet to an iron pin set for the Southeast corner of N. C. B. 1198, said corner being the point of intersection of the North line of Dignowity Avenue and the West line of Laurens Street;

THENCE, with the West line of Laurens Street and the East line of N. C. B. 1198, North 240.0 feet to an iron pin for the Northeast corner of N. C. B. 1198, said corner being the point of intersection of the West line of Laurens and the South line of the Old Seguin Road;

THENCE with the South line of the Old Seguin Road North 76° 52' East 51.34 feet to the place of beginning and containing 1.176 acres, more or less;

with the EXCEPTION that a 20 foot right of way for a Sanitary Sewer Easement is hereby reserved in the area quitclaimed above by grantor, City of San Antonio. The area reserved for said Sanitary Sewer Easement is more particularly described as follows:

Field Notes for a 20-foot Sanitary Sewer Easement:

BEGINNING at an iron pin set for the Northeast corner of N. C. B. 1198, City of San Antonio, Texas, said iron pin being on the Sough right-of-way line of the Old Seguin Road;

THENCE with the South line of the old Seguin Road, North 76° 52' East 15.41 feet to the point of beginning of the herein described easement;

THENCE continuing with the South line of the Old Seguin Road, North 76° 52' East 20.52 feet to a point;

THENCE South 255.41 feet to a point;

THENCE North 76° 52' East 96.56 feet to a point on the West line of an 86 foot drainage easement;

THENCE with the West line of said drainage easement South 11° 41' 15" East 20.0 feet;

THENCE South 76° 52' West 100.75 feet;

THENCE South 255.41 feet to a point on the North line of Runnels Avenue;

THENCE with the North line of Runnels Avenue, South 76° 52' West 20.52 feet to a point;

THENCE North 255.41 feet to a point;

THENCE South 76° 52' West 323.41 feet to a point on the East line of Frank Street;

THENCE with the East line of Frank Street North 20.52 feet to a point;

THENCE North 76° 52' East 323.41 feet to a point;

THENCE North 255.41 feet to the point of beginning, the whole containing 0.437 acres, more or less.

together with all of the City's right, title, and interest to all and singular the hereditaments and appurtenances thereunto belonging or in any wise appertaining.

TO HAVE AND TO HOLD the above described premises unto the said Texas Vegetable Oil Company, its successors and assigns forever.

EXECUTED this_____day of_____, A. D., 1960.

CITY OF SAN ANTONIO

By:_____
Charles F. Bisset
Chief Administrative Aide to the
City Manager

- - - -

AN ORDINANCE 28, 802

AUTHORIZING THE CITY MANAGER TO EXECUTE A CONTRACT BETWEEN THE CITY OF SAN ANTONIO AND THE SAN ANTONIO CIVITAN CLUBS, TO PROVIDE FOR THE USE OF THE BRACKENRIDGE GOLF COURSE FOR THE LADIES PROFESSIONAL GOLF TOURNAMENT.

****

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. The City Manager is hereby authorized to execute a contract, on behalf of the city of San Antonio, a copy of which contract is attached hereto and incorporated herein by reference, providing for the use of Brackenridge Golf Course by the San Antonio Civitan Clubs, for the Ladies Professional Golf Tournament, for a consideration that all participants in the tournament will pay the established green fees.

2. PASSED AND APPROVED this 11th day of August, A. D., 1960.

MIKE PASSUR, M A Y O R PRO TEM

ATTEST: J. Frank Gallagher
City Clerk

- - - - - - - -

AN ORDINANCE 28, 803

AMENDING CERTAIN SECTIONS OF CHAPTER 36
OF THE CITY CODE BEING THE CITY OF SAN ANTONIO
PLANNING AREA SUBDIVISION REGULATIONS TO
PROVIDE SETBACK REQUIREMENTS ADJACENT TO HGIH
PRESSURE OIL AND GAS LINES.

****

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. Section 36-19 (c) of the City Code is hereby amended to read as follows:

(c) Minimum Setback lines.

(1) Minimum front and side building setback lines at streets and crosswalks shall be shown on all plats and shall conform to the restrictions, if any, imposed on the subdivision by the subdivider, but in no event shall such setback lines be less than required by Chapter 42 of this Code.

(2) Building Setback Lines Adjacent to High Pressure Oil and Gas Lines. No structure shall be located nearer than 25 feet to high-pressure oil, gas, or gasoline line. And further, adjacent to such high pressure lines, a 25-foot building limit line (measured at right angles from the center line of the fuel line) shall be shown on the final plat.

In any case in which there is an existing fuel line easement, then the 25-foot building limit line shall be measured at right angles from the center line of said easement.

2. Paragraph (9) of Sec. 36-23 of the City Code is hereby amended to read as follows:

Sec. 36-23. Plat Specifications.

(9) Location, dimensions and purpose of any easement or reservations; and location of any high-pressure oil, gas or gasoline line.

3. PASSED AND APPROVED this 11th day of August, 1960.

MIKE PASSUR, MAA Y O R PRO TEM

ATTEST: J. Frank Gallagher
City Clerk

- - - - - -

AN ORDINANCE 28,804

CHANGING THE NAMES OF CERTAIN STREETS LOCATED
WITHIN THE CITY LIMITS OF THE CITY OF SAN ANTONIO.

****

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1.k The name of that portion of Losoya Street extending from East Houston Street to East Market Street is hereby changed to South Broadway.

2. PASSED AND APPROVED this 11th day of August, 1960.

MIKE PASSUR, M A Y O R PRO TEM

ATTEST: J. Frank Gallagher
City Clerk

- - - - - -

AN ORDINANCE 28, 805

APPROPRIATING THE SUM OF $5,500 OUT OF NO. 479-01,
STREET IMPROVEMENT BOND FUND, SERIES 1955, PAYABLE
TO THE DISTRICT CLERK OF BEXAR COUNTY, TEXAS, PURSUANT
TO THE ORDER OF THE COURT IN CAUSE NO. F-130,206,
SAM H. SCHAEFFER VS. CITY OF SAN ANTONIO, WHICH
ORDER DIRECTED THE MAKING OF SUCH PAYMENT AS
SECURITY FOR SAM H. SCHAEFFER FOR ANY COMPENSATION
FINALLY DETERMINED BY THE COURT TO BE OWED BY THE
CITY TO SAM H. SCHAEFFER FOR THE TAKING BY THE CITY
OF CERTAIN LAND CLAIMED BY SCHAEFFER ALONG NEBRASKA
STREET.

****

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. The sum of $5,500 is hereby appropriated out of No. 479-01, Street Improvement Bond Fund, 1955 Series, payable to the District Clerk of Bexar County, Texas, pursuant to the order of the Court in Cause No. F-130,206, Sam H. Schaeffer vs. City of San Antonio, which order directed the making of such payment as security for Sam H. Schaeffer for any compensation finally determined by the Court to be owed by the City to Sam H. Schaeffer for the taking by the City of certain land claimed by Schaeffer along Nebraska Street.

2. PASSED AND APPROVED this 11th day of August, 1960.

MIKE PASSUR, M A Y O R PRO TEM

ATTEST: J. Frank Gallagher
City Clerk

- - - - -

Personnel
Police Dept

AN ORDINANCE 28, 806

ASSIGNING CURTIS WALLACE, ALFRED ESTEFAN AND CHARLES McKNIGHT, EMPLOYEES OF THE POLICE DEPARTMENT, TO TEMPORARY DUTY AS CUSTODIAL WORKERS IN THE DEPARTMENT OF PUBLIC WORKS, EFFECTIVE AUGUST 1, 1960, AND AUTHORIZING PAYMENT OF BACK WAGES DUE SAID EMPLOYEES ACCORDING TO JUDGMENT OF THE SUPREME COURT OF TEXAS.

****

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. Effective August 1, 1960, Curtis Wallace, Alfred Estefan and Charles McKnight, employees of the Police Department, are assigned to temporary duty as custodial workers in the Department of Public Works.

2. This action shall not have the effect of abolishing or vacating the positions of said employees in the Police Department, and they shall be paid from funds of said Department, on the payroll of said Department, and shall continue to be recognized as full-fledged members of said Department.

3. It is hereby acknowledged that said employees have consented, and do hereby consent, to said temporary duty in a spirit of cooperation, and only upon this assurance that nothing herein shall jeopardize any of their rights, privileges and benefits as members of the San Antonio Police Department under Article 1269m of the Revised Civil Statutes, 1925, or Article 1583-2 of the Penal Code; nor shall anything herein prohibit said employees from demanding and receiving restoration to actual duty in the Police Department at any time, in accordance with the final judgment of the Supreme Court of Texas in the case styled City of San Antonio vs. Wallace, et al.

4. This ordinance being in the interest of the orderly administration of the Police Department and the Department of Public Works, and meeting with the acquiescence and consent of the employees involved, under the conditions herein set forth, shall take effect immediately upon its adoption.

5. Payment of the following sums to the named parties, out of General Fund Account No. 50-03-01, is hereby authorized:

(1) Curtis Wallace and his attorney, Adrian Spears:

Back Pay	$ 7,942.00	
Interest	321.30	
Total		$ 8,263.30

(2) Alfred Estefan and his attorney, Adrian Spears:

Back Pay	$ 7,546.00	
Interest	305.10	
Total		$ 7,851.10

(3) Charles McKnight and his attorney, Adrian Spears:

Back Pay	$ 8,204.00	
Interest	332.10	
Total		$ 8,536.00
(4) City's Portion of Social Security		432.00
TOTAL		$25,082.50

6. PASSED AND APPROVED this 11th day of August, 1960.

MIKE PASSUR, M A Y O R PRO TEM

ATTEST: J. Frank Gallagher
City Clerk

- - - - - -

AN ORDINANCE 28, 807

REPEALING ORDINANCE NO. 14378 WHICH GRANTED A PERMIT TO L. T. MUELLER AND WIFE, MELBA F. MUELLER, TO USE THE SANITARY SEWER SYSTEM OF THE CITY OF SAN ANTONIO.

****

WHEREAS, the City of San Antonio granted L. T. Mueller and wife, Melba F. Mueller, a license to use its Sanitary Sewer System at the premises at 369 West Lawndale, being the East one-half of Lot 41, Block 5655, Olmos Park in Ordinance No. 14378 passed and approved March 15, 1951, when said premises were located outside the City limits of San Antonio; and,

WHEREAS said premises were subsequently annexed and became a part of the City of San Antonio; and,

WHEREAS said License Agreement now constitutes a cloud upon the title of said property; NOW, THEREFORE:

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. Ordinance No. 14378 passed and approved March 15, 1951, and recorded in the Deed Records of Bexar County, Texas, in Volume 2997, at Page 337 is hereby repealed.

2. PASSED AND APPROVED this 11th day of August, 1960.

MIKE PASSUR, M A Y O R PRO TEM

ATTEST: J. Frank Gallagher
City Clerk

- - - - - - -

AN ORDINANCE 28, 808

DIRECTING THE SALE OF PERSONAL PROPERTY CONSISTING OF 87 MOTOR VEHICLES IN THE POSSESSION OF THE POLICE DEPARTMENT, NOT OWNED OR CLAIMED BY THE CITY OF SAN ANTONIO.

****

WHEREAS, under the provisions of Section 2-12 of the San Antonio Code, the Chief of Police of the City of San Antonio has reported that there is in the possession of the Police Department certain personal property consisting of 87 vehicles not owned or claimed by the City of San Antonio. A schedule of such property having heretofore been filed with the City Clerk and with the Chief of Police, said property having been in the possession of the Police Department for more than NINETY (90) days is unclaimed andon which there are charges unpaid and due to the City; NOW, THEREFORE:

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. Said property consisting of 87 vehicles, more particularly described in the aforesaid schedule, a copy of shich is attached hereto and made a part hereof, is hereby ordered to be sold at a public auction after TEN (10) DAYS by the publication of this ordinance in the "Commercial Recorder" giving the day, hour, and place of sale.

2. Said notice shall be given by publication of this ordinance at least two times within the said TEN(10) DAY period.

3. Said property shall be sold for cash in lots consisting of any number from 1 to 87, depending on what offers in the opinion of the Chief of Police or his representative are for the business interest of the City; said sale to be held at the San Antonio Police Storage Lot at Stinson Field on the 21st day of September, 1960 between the hours of 10 a.m. and 12 noon and during the same hours on each succeeding business day thereafter until all of said vehicles are disposed of.

4. Said property may be retained by the owner at anytime prior to its sale by satisfying the Chief of Police of the true ownership therof and by paying the cost of the storage and care therof and all other expenses in connection therewith.

5. Said property shall be sold as is and a Bill of Sale as requested will be executed by the Chief of Police of the City of San Antonio to the purchaser, but no title transfer or title paper of any nature will be given.

6. Within FIVE (5) DAYS after said sale, the Chief of Police shall make a report thereof under oath to the Controller of the City of San Antonio and shall account for the money received at said sales in the same manner as is prescribed for him to account for all other moneys that may come into his custody as Chief of Police of the City of San Antonio.

7. PASSED AND APPROVED This 11th day of August, 1960.

MIKE PASSUR, M A Y O R PRO TEM

ATTEST: J. Frank Gallagher
City Clerk

- - - - - - -

AN ORDINANCE 28, 809

APPROVING THE SALE OF TEN (10) OBSOLETE AND JUNK MACK BUSES BY THE SAN ANTONIO TRANSIT SYSTEM FOR $2,270.00.

****

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. The sale of ten (10) obsolete and junk Mack buses by the San Antonio Transit System for $2,270.00 is hereby ratified and approved.

2. PASSED AND APPROVED this 11th day of August, 1960.

MIKE PASSUR, M A Y O R PRO TEM

ATTEST: J. Frank Gallagher
City Clerk

- - - - - - -

AN ORDINANCE 28, 810

ESTABLISHING RULES AND REGULATIONS FOR THE
EXTENSIIN OF SANITARY SEWER LINES.

****

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

Section 1. Definitions

A. BORDER MAINS. Mains which abut one or more side of a subdivision but which serve other land as well as the land in such subdivision.

B. DEVELOPER. A person who has subdivided, or intends to subdivide, land into lots for the purpose of development and sale.

C. EVALUATED COST. The cost of a sewer main as established by the unit value for the size of main and appurtenances in conformity with the provisions of this ordinance.

D. OFF-SITE MAINS. Sewer mains totally without a subdivision.

E. ON-SITE MAINS. Sewer mains totally within a subdivision, including mains lying along one or more sides of a subdivision which serve such subdivision exclusively.

F. SINGLE CUSTOMER. Any applicant for sewer service, other than a Developer.

G. SUBDIVISION. A tract of land which has been, or is intended to be, subdivided or platted into lots for development and sale.

Section 2. EXTENSION OF MAINS FOR A SINGLE CUSTOMER.

Upon application by one or more Single Customers, the City will construct, lay or extend all necessary sewer mains to provide the service for which application is made provided, however, that such construction shall be limited to 100 feet for each lot having existing usable improvements which could connect into the proposed line. Should there be an insufficient number of such lots to warrant the construction of such lines under this provision, the City will construct the line at its expense as far as the provision of this section permit and the customers beyond this point may extend the line at their expense with the City furnishing all materials required.

Section 3. EXTENSION FOR DEVELOPER CUSTOMER.

A. ON -SITE MAINS. In the event a Developer desires the extension of sewer mains to serve his subdivision, the Developer shall bear the entire cost of all on-site mains. The size of the on-site mains to be installed shall be determined by the Director of Public Works, taking into consideration the requirements of adjacent areas of future growth which must be served by such mains. The decision of the Director of Public Works concerning the size of the required mains shall be final.

The construction of on-site mains in accordance with plans and specifications approved by the Director of Public Works will be done by a contractor of Developer's choice; provided, however, that such contractor shall furnish a performance bond, executed by a corporate surety authorized to do business in the State of Texas and maintaining in Bexar County an agent upon whom service of citation may be had, in an amount equal to the total construction cost. Said bond shall run in favor of the City or in favor of the City and the Developer, and shall be conditioned upon (1) completion of the entire construction in full conformity with the plans and specifications approved by the Director of Public Works; (2) maintenance of such construction for a period of ninety (90) days after acceptance thereof by the Director of Public Works; and (3) payment in full by the contractor of all claims for labor performed, or materials furnished, in connection with such construction. All such construction work shall be subject to inspection by representatives of the City, and no portion of any main installed in any excavation shall be covered unless and until the construction of such portion shall have been inspected and approved by a representative of the City.

Should the Director of Public Works require the installation of on-site mains of a larger diameter than necessary to provide adequate sewer service to Developer's property, the difference between the cost of such larger mains and the size main required to serve Developer's property will be refunded to Developer upon completion of Construction of such on-site mains and acceptance thereof by the Director of Public Works, based upon the following Oversize Main Repayment Schedule:

Oversize Main Repayment Schedule

Size of Main Adequate to Serve Developer's Land	Main Installed	Repayment Amount (per linear foot)	
		Concrete	Clay
8"	10"	$0.14	$0.22
8"	12"	$0.75	$0.95
8"	15" or larger	Contract price or agreed price less $1.18	Contract price or agreed price less $1.33
10"	12"	$0.61	$0.73
10"	15" or larger	Contract price or agreed price less $1.32	Contract price or agreed price less $1.55

12"	15" or larger	Contract price or agreed price less $1.93	Contract price or agreed price less $2.28

B. OFF-SITE MAINS. Where sewer facilities are not available to Developer's land, Developer will, at his expense, construct the required off-site mains according to plans and specifications prepared by the Developer's engineer and approved by the Director of Public Works, whose desicion concerning such plans and specifications, including the size of mains to be installed, shall be final. The contractor constructing such off-site mains, before beginning such construction, shall furnish a Performance Bond meeting the requirements specified in Section 3A hereof. Upon completion and acceptance of the line by the City, The Developer will be immediately reimbursed by the City the difference in evaluation cost of the line as built and the evaluated cost of the size line required to serve Developer's subdivision. This reimbursement will be based upon the Oversize Main Repayment Schedule in Section 3A hereof.

The City will also refund quarterly as connections from lots within the Developer's subdivision are made, the evaluated cost of the size line required to serve Developer's subdivision up to a total of $150.00 times the number of lots within the Developer's subdivision. The refund will be based on the rate of $150.00 for each connection made and shall terminate when all the evaluated cost of the size line required to serve Developer's subdivision shall have been refunded or at the expiration of seven (7) years after acceptance of such mains by the City, whichever shall occur first.

C. BORDER MAINS. Border mains shall be installed by the Developer in the manner hereinabove provided for the installation of on-site mains. Upon acceptance of such mains by the City, Developer will be refunded the difference between the evaluated costs of the main installed pursuant to the direction of the Director of Public Works, and one-half of the evaluated cost of the size main required to serve Developer's land adequately. "Evaluated Cost" shall be determined in accordance with the following table:

	Concrete Pipe	Clay Pipe
8" Sanitary Sewer	$1.50 per L. F.	$1.65 per L. F.
10" Sanitary Sewer	$2.00 per L. F.	$2.20 per L. F.
12" Sanitary Sewer	$3.00 per L. F.	$3.25 per L. F.
15" Sanitary Sewer and larger	Contract price or agreed price	
Manhole 0-6' depth	$115.00 each	
Extra depth manhole over 6'	$ 15.00 per v. f.	
8" Wye	$1.50 each	$2.75 each
10" Wye	$3.00 each	$3.50 each
12" Wye	$3.75 each	$4.25 each
8" Tee (encased in concrete)	$2.25 each	$3.00 each
10" Tee " " "	$4.75 each	$7.00 each
12" Tee " " "	$6.00 each	$8.50 each
Rock excavation	$ 10.00 per cu. yd.	
Stabilized Backfill 1:27	$ 6.60 per cu. yd.	
Stabilized Backfill 2:27	$ 7.40 per cu. yd.	
2000 # concrete	$ 9.00 per cu. yd.	
Concrete walks	$ 0.60 per sq. ft.	
Concrete paving	$ 6.00 per sq. yd.	
1" Asphalt Paving (with medium base)	$ 1.70 per sq. yd.	

The unit prices above are inclusive of all other items not specifically listed herein which may be necessary to produce a complete job.

D. EXISTING MAINS WITHIN OR ADJACENT TO DEVELOPER'S LAND.

Where an existing main lies within, or abuts, Developer's land, Developer shall make no commections to or extension of such existing line without first paying to the City the Evaluated Cost of that size main, of equal length to that portion of such existing main which lies within or abuts Developer's land, which would be required to serve Developer's land. Provided, however, that should such existing main be a Border Main, Developer shall be required to pay only one-half of such Evaluated Cost.

E. CONDITIONS PRECEDENT TO THE RIGHT TO REFUND.

In no case shall a Developer be entitled to any refund unless he has complied with all provisions of Section 3 of this ordinance, and unless, prior to the construction and installation of the sewer line as to which refund is sought, the Director of Public Works has certified in writing to the City Manager and the Director of Finance his approval of the proposed sewer and the Director of Finance has further certified in writing that it would be to the best interests of the City that the Developer receive the refunds contemplated by this ordinance.

Section 4. MAINS TO BE CITY PROPERTY.

All sewer mains constructed or installed pursuant to the provisions of this ordinance shall, when completed and accepted by the City, become the property of the City, free and clear of all encumbrances. Each and every contract entered into between a Developer and a contractor for the installation of sewer mains pursuant to the provisions of this ordinance shall recite therein the provisions of this Section.

Section 5. WHERE MAINS MAY BE LAID.

No sewer main shall be installed or constructed except within a public street or alley, or within an easement granted to the City by appropriate written instrument filed for record with the County Clerk of Bexar County at the expense of the person requesting the extension of existing mains.

Section 6. SEWER ELEMENTS NOT CONFORMING TO MASTER PLAN.

No lift station, sanitary sewer siphon, force main or sewer line connecting to such construction not conforming with the Master Sanitary Sewer Plan shall be constructed as a part of the Sewer main extension unless the Developer agrees that he will, at his own

expense, construct such elements in accordance with the design standards provided by the Director of Public Works and on file in the office of the Sewer Engineer, or in the case of lift stations, design using a dry and wet well installation prepared by the Developer's engineer and approved by the Director of Public Works, or a prefabricated installation of similar design and considered equal by the Director of Public Works. Developer shall also agree to pay to the City a lump sum in accordance with following table to cover the operating and maintenance cost of any such lift station for a period of five years:

Design Pump Motor Rating	Total Operating & Maintenance Cost (Five Years)
0 -3 H. P.	$4,000.00
3 -7.5 H. P.	$4,500.00
7.5&up H. P.	$5,000.00

Should future extensions of sewer mains make the operation of such lift stations unnecessary before the five years have terminated, then the Developer will be refunded the pro rata portion of the five year payment. If at the end of the five years, the necessary sewer main extensions to eliminate the lift station are not made, the City will assume full maintenance and operation of such stations.

Section 7. CITY NOT OBLIGATED TO PROCEED.

In no event shall the City be obligated to proceed under the terms of this ordinance if sufficient funds are not available in the Sewer Extension Fund or, if in the opinion of the Director of Public Works, the extension is not in the public interest. Nothing in this ordinance shall be construed as a surrender by the City of its control over the streets, alleys, public ways or public easements.

Section 8. No person shall acquire any vested rights under the provisions of this ordinance.

Section 9. PASSED AND APPROVED this 11th day of August, A. D., 1960.

MIKE PASSUR, M A Y O R PRO TEM

ATTEST: J. Frank Gallagher
City Clerk

- - - - - -

A RESOLUTION

DIRECTING THE CITY MANAGER TO INSTRUCT THE CITY ATTORNEY TO TAKE ALL STEPS NECESSARY FOR THE COLLECTION OF SEWER SERVICE FEES OWED TO THE CITY OF SAN ANTONIO BY THE COUNTY OF BEXAR.

****

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. The City Manager is hereby directed to instruct the City Attorney to take all steps necessary, including the filing of legal proceedings, to collect sewer service fees owed to the City by the County of Bexar.

2. PASSED AND APPROVED this 11th day of August, 1960.

MIKE PASSUR, M A Y O R PRO TEM

ATTEST: J. Frank Gallagher
City Clerk

- - - - - -

AN ORDINANCE 28, 811

ACCEPTING THE PROPOSAL OF INTERNATIONAL AERIAL MAPPING COMPANY TO FURNISH MAPPING AND PHOTO - GRAPHY SERVICES FOR THE PREPARATION OF PLANS FOR THE CONSTRUCTION OF THE GOLF COURSE AT LIONS PARK FOR A CONSIDERATION OF $1,500.00; AND AUTHORIZING THE CITY MANAGER TO EXECUTE A CONTRACT THEREFOR.

****

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. The proposal of the International Aerial Mapping Company to furnish the City with aerial mapping and photography services to prepare Lions Park for the construction of a Golf Course for $1,500.00 is hereby accepted.

2. The proposal, in the form of an agreement between the City and International Aerial Mapping Company, is attached hereto and made a part hereof and the City Manager is authorized to execute same on behalf of the City.

3. PASSED AND APPROVED this 11th day of August, 1960.

MIKE PASSUR, M A Y O R PRO TEM

ATTEST: J. Frank Gallagher
City Clerk

- - - - - - -

City of San Antonio
Parks and Recreation Department
San Antonio, Texas

This agreement made and entered into by and between THE CITY OF SAN ANTONIO, hereinafter referred to as City, and INTERNATIONAL AERIAL MAPPING COMPANY, whose address is 127 Airport Blvd., San Antonio, hereinafter referred to as Company.

The City hereby contracts for services of Company to accomplish aerial photography and the furnishing of one (1) set of contact prints to a scale of 1" - 400', and a topographic map to a scale of 1" - 40' with 2 foot contour interval.

The lump sum price for these services is Fifteen Hundred Dollars ($1,500).

Photography--

A. Quality of photograph shall be clear and sharp in detail and of average uniform density; free from clouds, cloud shadows, light streaks, static marks and other blemishes.

B. Each vertical negative shall be marked clearly with the date of photography and number of exposure.

C. Contact prints--Contact prints from the vertical negatives shall be made without mask, on double weight semi-matte paper free from chemical stains and should be trimmed to the photographic image.

Topographic Maps--

A. Accuracy--Topographic maps shall be compiled to National Map Accuracy Standards except in areas where the ground is obscured by tree leaves. Contours in obscured areas shall be shown by dash lines to differentiate those areas of uncertain accuracy.

B. The scale of maps shall be 1" - 40' with a 2 foot contour interval. The maps shall be made with sheet sizes and title blocks to City specifications. The map sheets will be produced on stable base Chronaflex film.

C. Areas to be Covered--The mapping area consist of approximately 350 acres lying to the East of the new Highlands High School in the area of Hi Lions Park.

D. Ground Control--The contractor will establish sufficient horizontal and vertical field control to allow map compilation to the accuracies specified in "A" above.

E. Contents of Topographic Map--The maps shall contain all planimetric features; such as, fences, roads, streets, power poles, buildings and drains within the area. Trees when densely grouped shall be shown by a wood outline symbol and in a sparce area of trees, the individual trees shall be symbolized.

Conditions--

1. Company guarantees and warrants the work performed hereunder, together with all materials and supplies furnished by Company in connection therewith to be free from any and all defects.

2. Company agrees to pay and satisfy all claims for labor and material employed or used in anywise by it/him in connection with the work performed hereunder for City as herein contemplated, and to permit no liens of any kind to be fixed upon or against the property of City by Company's employees, agents, superintendents, laborers, mechanics or materialmen, and agrees to indemnify, protect and save City harmless from and against all such claims and liens. Company agrees that upon completion of the work it will furnish City with proof satisfactory to City that there are no unsatisfied claims for labor or material, or injuries to persons or property.

3. All work shall be performed in a neat workmanlike manner and shall meet with the approval of City's inspectors. No payment shall be made for any work which does not meet with such approval. The detailed manner and method of performing the work is under the control of Company. City having an interest only in the results obtained, and Company is an Independent Company as to all work performed hereunder. All work shall be turned over to City free and clear of all liens, claims and demands. Company shall hold The City of San Antonio free, clear and harmless of and from any and all claims which may arise out of the performance of the work hereunder.

Payment--Payment will be made at the lump sum price of the items herein specified as the items are accepted upon receipt of proper certified invoices or vouchers. The City will accept or notify the Company of rejection of each of the items within a maximum period of 30 calendar days following delivery.

EXECUTED this _____ day of _____ .1960

INTERNATIONAL AERIAL MAPPING COMPANY
Company

ATTEST: Max Russ, Assistant Secretary

BY George D. Hardy, Vice-President and
General Manager

THE CITY OF SAN ANTONIO

Charles F. Bissett

- - - - - - -

AN ORDINANCE 28,812

AMENDING SECTION 2 OF AN ORDINANCE ENTITLED "AN ORDINANCE ESTABLISHING ZONING REGULATIONS AND DISTRICTS IN ACCORDANCE WITH A COMPREHENSIVE PLAN, ETC.," PASSED AND APPROVED ON NOVEMBER 3, 1938, BY CHANGING THE CLASSIFICATION AND REZONING OF CERTAIN PROPERTY DESCRIBED HEREIN

****

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. That Section 2 of an Ordinance entitled "AN ORDINANCE ESTABLISHING ZONING REGULATIONS AND DISTRICTS IN ACCORDANCE WITH A COMPREHENSIVE PLAN, ETC.," passed and approved by the Commissioners of the City of San Antonio on the 3rd day of November, 1938, be and the same is hereby amended so that paragraph 3 of said Section 2 shall hereafter include the following described changes in classification and the rezoning of the hereinbelow designated property, to-wit: (CASE NO. 1325) The rezoning and reclassification of property from "A" Residence District to "JJ" Commercial District as follows: Lot 2, NCB 10762.

2. That all other provisions of said ordinance, as amended, shall remain in full force and effect, including the penalty for violations thereof as made and provided in Section 28.

3. That the Chief Building Inspector and the Director of Planning shall change their records and zoning maps in accordance herewith and the same are available and open to the public for inspection.

4. PASSED AND APPROVED this 18th day of August, A. D. 1960.

J. EDWIN KUYKENDALL, M A Y O R

ATTEST: J. Frank Gallagher
City Clerk

- - - - - - -

AN ORDINANCE 28, 813

AMENDING SECTION 2 OF AN ORDINANCE ENTITLED "AN ORDINANCE ESTABLISHING ZONING REGULATIONS AND DISTRICTS IN ACCORDANCE WITH A COMPREHENSIVE PLAN, ETC.", PASSED AND APPROVED ON NOVEMBER 3, 1938, BY CHANGING THE CLASSIFICATION AND REZONING OF CERTAIN PROPERTY DESCRIBED HEREIN

****

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. That Section 2 of an Ordinance entitled "AN ORDINANCE ESTABLISHING ZONING REGULATIONS AND DISTRICTS IN ACCORDANCE WITH A COMPREHENSIVE PLAN, ETC.," passed and approved by the Commissioners of the City of San Antonio on the 3rd day of November, 1938, be and the same is hereby amended so that paragraph 3 of said Section 2 shall hereafter include the following described changes in classification and the rezoning of the hereinbelow designated property, to -wit: (CASE NO. 1340) The rezoning and reclassification of property from "B" Residence District to "JJ" Commerical District as follows: Lot 22, NCB 10978

2. That all other provisions of said ordinance, as amended, shall remain in full force and effect, including the penalty for violations thereof as made and provided in Section 28.

3. That the Chief Building Inspector and the Director of Planning shall change their records and zoning maps in accordance herewith and the same are available and open to the public for inspection.

4. PASSED AND APPROVED this 18th day of August, A. D. 1960.

J. EDWIN KUYKENDALL, M A Y O R

ATTEST: J. Frank Gallagher
City Clerk

- - - - - - -

AN ORDINANCE 28, 814

AUTHORIZING THE CITY MANAGER TO EXECUTE AN APPLICATION TO THE PRUDENTIAL INSURANCE COMPANY OF AMERICA FOR A GROUP INSURANCE POLICY COVERING EMPLOYEES OF THE POLICE DEPARTMENT OF THE CITY OF SAN ANTONIO.

****

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. The City Manager is hereby authorized to execute an application to the Prudential Insurance Company of America for a Group Insurance Policy covering employees of the Police Department of the City of San Antonio.

2. All premiums due on said policy shall be paid by the employees involved. Said premiums may be deducted from the salary of the employees pursuant to written authorization from each employee.

3. PASSED AND APPROVED this 18th day of August, A. D., 1960.

J. EDWIN KUYKENDALL, M A Y O R

ATTEST: J. Frank Gallagher
City Clerk

- - - - - - -

AN ORDINANCE 28, 815

ADOPTING A PLUMBING CODE, DEFINING TERMS USED HEREING; REQUIRING A PERMIT FOR THE DOING OF ANY PLUMBING WORK AND PRESCRIBING THE FEES THEREFOR; PROVIDING FOR THE INSPECTION, AND REQUIRING THE APPROVAL , OF PLUMBING INSTALLATIONS; CREATING A PLUMBING APPEALS AND ADVISORY BOARD AND PRESCRIBING THE POWERS AND DUTIES THEREOF; PROVIDING FOR THE LICENSING AND BONDING OF PLUMBERS; PRESCRIBING RULES AND REGULATIONS FOR THE INSTALLATION OF PLUMBING EQUIPMENT AND FIXTURES; REQUIRING CONNECTIONS TO THE PLUMBING SYSTEM AND TO THE PUBLIC SEWER SYSTEM, EXCEPT IN CERTAIN ENUMERATED INSTANCES; PRESCRIBING THE KIND, QUALITY AND WEIGHT OF MATERIALS WHICH MAY BE USED AND PROVIDING A MEANS FOR THE APPROVAL OF ALTERNATE MATERIALS; PRESCRIBING THE TYPES OF JOINTS AND CONNECTIONS PERMITTED AND PRESCRIBING THE METHOD OF INSTALLATION; PROHIBITING THE USE OF CERTAIN JOINTS AND CONNECTIONS; REGULATING THE INSTALLATIONS OF TRAPS, CLEANOUTS, INTERCEPTORS, SEPARATORS AND BACKWATER VALVES; PRESCRIBING MINIMUM FACILITIES WHEREVER PLUMBING FIXTURES ARE INSTALLED; PRESCRIBING THE METHOD OF SUPPORTING AND SECURING PIPING; REGULATING THE INSTALLATION OF INDIRECT WASTE PIPES, AIR GAP OR BACKFLOW PREVENTORS, RECEPTORS, CONDENSERS AND SUMPS; PROVIDING FOR THE METHOD OF HANDLING ACID AND SPECIAL WASTES; REGULATING THE INSTALLATIONS OF WATER SUPPLY AND DISTRIBUTION SYSTEMS AND PRESCRIBING RULES AND REGULATIONS FOR THE PROTECTION OF POTABLE WATER SUPPLY; PRESCRIBING THE TYPE OF MATERIALS TO BE USED IN, AND THE METHOD OF INSTALLING, DRAINAGE SYSTEMS; PRESCRIBING RULES AND REGULATIONS FOR THE INSTALLATION OF VENTS AND VENTING SYSTEMS; REGULATING THE METHOD OF DISCHARGING WASTE WATER FROM SWIMMING POOLS; PRESCRIBING RULES AND REGULATIONS FOR PLUMBING FACILITIES ON TRAILERS AND IN TRAILER COURTS; PRESCRIBING RULES AND REGULATIONS GOVERNING THE INSTALLATION OF GAS FITTINGS, INCLUDING SPECIFICATIONS RELATING TO THE USE OF MATERIALS, MANNER OF MAKING CONNECTIONS, LENGTH OF PIPE AND NUMBER OF OPENINGS FOR GAS APPLIANCES, AND THE METHOD OF SIZING GAS PIPING; PROVIDING PENALTIES FOR THE VIOLATIONS OF THIS ORDINANCE; CONTAINING A SEVERABILITY CLAUSE; AND PROVIDING THAT THE EFFECTIVE DATE HEREOF SHALL BE OCTOBER 1, 1960.

****

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:-

1. Chapter 30 of the City Code is hereby amended to read as follows:

Chapter 30.

PLUMBING CODE

Article I. Title, Scope and Definitions

Sec. 30-1. Title.

The provisions embraced in the following divisions and sections of this chapter of the City Code shall constitute and may be cited as "The Plumbing Code of the City of San Antonio."

Sec. 30-2 Scope.

The provisions of this Plumbing Code shall apply to every plumbing installation, including alterations, repairs, equipment, appliances, fixtures, fittings, and appurtenances thereto within the City of San Antonio. Provided, however, that existing plumbing, gas and water installations which meet all requirements of applicable ordinances in effect at the time of installation will not require change or modification.

Sec. 30-3. Construction.

This Plumbing Code shall in all cases be construed to secure and promote the public health, sanitation, safety and general welfare.

Sec. 30-4. Definitions.

For purposes of this Plumbing Code, the following words and terms shall have the meaning indicated:

Director- Whenever the term "Director" is used herein, it shall be construed to mean the Director of Housing and Inspections or his authorized representative.

Assistants- Shall be construed to mean the Plumbing Inspectors.

Air Gap- An air gap in a water-supply system is the unobstructed vertical distance through the free atmosphere between the lowest opening from any pipe or faucet supplying water to a tank, plumbing fixture, or other device and the flood-level rim of the receptable.

Anchors- See Supports.

Approved- Approved means accepted or acceptable under an applicable specification stated or cited in this code, or accepted as suitable for the proposed use under procedures and powers of the Director.

Area Drain- An area drain is a receptable designed to collect surface or rain water from an open area.

Backflow- Backflow is the flow of water or other liquids, mixtures, or substances into the distributing pipes of a potable supply of water from any source or sources other than its intended source. (See back-siphonage.)

Backflow Connection- A backflow connection or condition is any arrangement whereby backflow can occur.

Backflow Preventor- A backflow preventer is a device or means to prevent backflow into the potable water system approved by the Texas State Department of Health.

Back-Siphonage- Back-Siphonage is the flowing back of used, contaminated, or polluted water from a plumbing fixture or vessel into a water-supply pipe due to a negative pressure in such pipe. (See backflow.)

Battery of Fixtures- A "batter of fixtures" is any groups of two or more similar adjacent fixtures which discharge into a common horizontal waste or soil branch.

Board- When used along in this Code shall apply to the Plumbing Appeals and Advisory Board as defined in Section 30-19.

Boiler Blow-off- A boiler blow-off is an outlet on a boiler to permit emptying or discharge of sediment.

Branch- A branch is any part of the piping system other than a main, riser, or stack.

Branch, Fixture- See Fixture Branch.

Branch, Horizontal- See Horizontal Branch.

Branch Interval- A branch interval is a length of soil or waste stack corresponding in general to a story height, but in no case less than 8 feet within which the horizontal branches from one floor or story of a building are connected to the stack.

Branch Vent- A branch vent is a vent connecting one or more individual vents with a vent stack or stack vent.

Building- A building is a structure built, erected, and framed of component structural parts designed for the housing, shelter, enclosure, or support of persons, animals, or property of any kind.

Building Classification- Building classification is the arrangement in the Building Code for the designation of buildings in classes based upon their use of occupancy.

Building Drain- The building (house) drain is that part of the lowest piping of a drainage system which receives the discharge from soil, waste, and other drainage pipes, inside the walls of the building and conveys it to the building (house) sewer beginning 3 feet outside the building wall.

Building Sewer- The building (house) sewer is that part of the horizontal piping of a drainage system which extends from the end of the building drain and which receives the discharge of the building drain and conveys it to a public sewer, private sewer, in-dividual sewage-disposal system, or other point of disposal.

Building Storm Drain- A building (house) storm drain is a building drain used for conveying rain water, surface water, ground water, subsurface water, condensate, cooling water, or other similar discharge to a building storm sewer extending to a point not less than 3 feet outside the building wall.

Building Storm Sewer- A building (house) storm sewer is the extension from the building storm drain to the public storm sewer or other approved point of disposal.

Building Subdrain- A building (house) subdrain is that portion of a drainage system which cannot drain by gravity into the building sewer.

Building Trap- A building (house) trap is a device, fitting, or assembly of fittings installed in the building drain to prevent circulation of air between the drainage system of the building and the building sewer.

Circuit Vent- Circuit vent is a branch vent that serves two or more floor set weter closets and extends from in front of the last fixture connection of a horizontal branch to the vent stack. All circuit venting shall be diagrammed and submitted to the Director for approval prior to installation of same.

City- The word City shall mean the City of San Antonio, Bexar County, Texas, and shall also include all territory subject to the Police Power of the City of San Antonio.

Code- The word Code when used alone shall mean these regulations, subsequent amendments thereto, or any emergency rule or regulation which the Director may lawfully adopt.

Combination Fixture- A combination fixture is combining one sink and tray or a two or three-compartment sink or tray in one unit.

Combination Waste and Vent System- A combination waste and vent system is a specially designed system of waste piping embodying the horizontal wet venting of one or more sinks or floor drains by means of a common waste and vent pipe adequately sized to provide free movement of air above the flow line of the drain. This system may be permitted only where structural conditions preclude the installation of a conventional system and shall be submitted to the Director for approval prior to installation of same.

Common Vent- A common vent is a vent connecting at the junction of two fixture drains and serving as a vent for both fixtures.

Conductor- See Leader.

Continuous Vent- A continuous vent is a vertical vent that is a continuation of the drain to which it connects.

Continuous Waste- A continuous waste is a drain from two or three fixtures connected to a single trap.

Cross Connection- A cross connection is any physical connection or arrangement between two otherwise separate piping systems, one of which contains potable water and the other water of unknown or questionable safety, whereby water may flow from one system to the other, the direction of flow depending on the pressure differential between the two systems. (See Backflow and Back-Siphonage.)

Dead End- A dead end is a branch leading from a soil, waste, or vent pipe, building drain, or building sewer, which is terminated at a developed distance of 2 feet or more by means of a plug or other closed fitting.

Developed Length- The developed length of a pipe is its length along the center line of the pipe and fittings.

Diameter- Unless specifically stated, the term "diameter" is the nominal diameter as designated commercially.

Double Offset- A double offset is two changes of direction installed in succession or series in continuous pipe.

Downspout- See Leader.

Drain- A drain is any pipe which carries waste water or water-borne wastes in a building drainage system.

Drainage Piping- See Drainage System.

Drainage System- A drainage system (drainage piping) includes all the piping within public or private premises, which conveys sewage, rain water, or other liquid wastes to a legal point of disposal, but does not include the mains of a public sewer system or private or public sewage-treatment or disposal plant.

Dual Vent- See Common Vent.

Effective Opening- The effective opening is the minimum Cross-sectional area at the point of water-supply discharge, measured or expressed in terms of (1) diameter of a circle, (2) if the opening is not circular, the diameter of a circle of equivalent cross-sectional area. (This is applicable to air gap.)

Existing Work- Existing work is a plumbing system or any part thereof which has been installed prior to the effective date of this Code.

Fixture Branch- A fixture branch is a pipe connecting several fixtures.

Fixture Drain.- A fixture drain is the drain from the trap of a fixture to the junction of that drain with any other drain pipe.

Fixture Supply- A fixture supply is a water-supply pipe connecting the fixture with the fixture branch.

Fixture Unit- A fixture unit is a quantity in terms of which the load producing effects on the plumbing system of different kinds of plumbing fixtures are expressed on some arbitarily chosen scale.

Fixture Unit Flow Rate- Fixture unit flow rate is the total discharge flow in gpm of a single fixture divided by 7.5 which provides the flow rate of that particular plumbing fixture as a unit of flow. Fixtures are rated as multiples of this unit of flow.

Flood Level- See Flooded.

Flood-Level Rim- The flood-level rim is the top edge of the receptable from which water overflows.

Flooded- A fixture is flooded when the liquid therein rises to the flood-level rim.

Grade- Grade is the slope or fall of a line of pipe in reference to a horizontal plane. In drainage it is usually expressed as the fall in a fraction of an inch per foot length of pipe.

Grease Interceptor- See Interceptor.

Grease Trap- See Interceptor.

Hangers- See Supports.

Horizontal Branch- A horizontal branch is a drain pipe extending laterally from a soil or waste stack or building drain, with or without vertical sections or branches, which receives the discharge from one or more fixture drains and conducts it to the soil or waste stack or to the building (house) drain.

Horizontal Pipe- Horizontal pipe means any pipe or fitting which makes an angle of more than 45 degrees with the vertical.

House Drain- See Building Drain.

House Sewer- See Building Sewer.

House Trap- See Building Trap

Immediate Waste- An immediate waste is that portion of pipe to which the trap and vent are connected.

Indirect Waste Pipe- An indirect waste pipe is a pipe that does not connect directly with the drainage system but conveys liquid wastes by discharging into a plumbing fixture or receptacle which is directly connected to the drainage system.

Indirect Waste Receptor- A receptacle properly trapped and vented and with access provided for cleaning the inlet and the outlet receiving the waste from plumbing fixtures not directly connected to the sanitary sewers.

Individual Vent- An individual vent is a pipe installed to vent a fixture trap and which connects with the vent system above the fixture served or terminates in the open air.

Insanitary- Contrary to sanitary principles; injurious to health to health.

Interceptor- An interceptor is a device designed and installed so as to separate and retain deleterious, hazardous, or undesirable mstter from normal wastes and permit normal sewage or liquid wastes to discharge into the disposal terminal by gravity.

Layman- When used in reference to a member of the Plumbing Appeals and Advisory Board shall mean a person not in municipal or federal emplo ment who is not regularly engaged in any of the other Board membership caregories.

Leader- A leader (downspout) is the water conductor from the roof of the building storm drain or other approved means of disposal.

Liquid Waste- Liquid waste is the discharge from any fixture, appliance, or appurtenance, in connection with a plumbing system which does not receive fecal matter.

Load Factor- Load factor is the percentage of the total connected fixture unit flow rate which is likely to occur at any point in the drainage system. It varies with the type of occupancy, the total flow unit above this point being considered, and with the probability factor of simultaneous use.

Main- The main of any system of continuous piping is the principal artery of the system to which branches may be connected.

Main sewer- See Public Sewer.

Main Vent- The main vent is teh principal artery of the venting system to which vent branches may be connected.

May- The word "may" is used as a permissive term.

Nuisance- The word "nuisance" embraces public nuisance as known at common law or in equity jurisprudence; and also includes whatever is dangerous to human life or detrimental to health; whatever building, structure, or premises is not sufficiently ventilated, sewered, drained, cleaned, or lighted, in reference to its intended or actual use; and whatever renders the air or human food or drink or water supply unwholesome.

Offset- An offset in a line of piping is a combination of elbows or bends which brings one section of the pipe out of line but into a line parallel with the other section.

Person- Person is a natural merson, his heirs, executors, administrators, or assigns; and includes a firm, partnership or corporation, its or their successors or assigns. Singular includes plural; make includes female.

Pitch- See Grade.

Plumbing- Plumbing is the practice, materials, and fixtures used in the installation, maintenance, extension, and alteration of all piping, fixtures, appliances, and appurtenances in connection with any of the following: Sanitary drainage or storm drainage facilities, the venting system and the public or private water supply systems, within or adjacent to any building, structure, or conveyance; also the practice and materials used in the installation, maintenance, extension, or alteration of storm-water, liquid-waste, or sewerage, and water-supply systems of any premises to their connection with any point of public disposal or other acceptable terminal.

Plumbing Fixtures- Plumbing fixtures are installed receptables, devices, or appliances which are supplied with water or which receive or discharge liquids or liquid-borne wastes, with or without discharge into the drainage system with which they may be directly or indirectly connected.

Plumbing System- The plumbing system includes the water-supply and distribution pipes; plumbing fixtures and traps; soil, wastes, and vent pipes; building drains and building sewers including their respective connections, devices, and appurtenances within the property lines of the premises, and water-treating or water-using equipment.

Pool- A pool is a water receptacle used for swimming or as a plunge or other bath, designed to accommodate more than one bather at a time.

Potable Water- Potable water is water which is satisfactory for drinking, culinary, and domestic purposes, and meets the requirements of the Health Authority having jurisdiction.

Private or Private Use- In the classification of plumbing fixtures, private applies to fixtures in residences or apartments and to fixtures in private bathrooms of hotels and similar installations where the fixtures are intended for the use of a family or an individual.

Private Sewer- A private sewer is a sewer privately owned and not directly or indirectly controlled by public authority.

Public or Public Use- In the classification of plumbing fixtures, public applies to fixtures in general toilet rooms of schools, gymnasiums, hotels, railroad stations, public buildings, bars, public comfort stations, and other installations (whether pay or free) where a number of fixtures are installed so that their use is similarly unrestricted.

Public Sewer- A public sewer is a common sewer directly or indirectly controlled by the City of San Antonio.

Registered Practicing Architect- An individual duly licensed under the Laws of the State of Texas to practice the profession of architecture and who is an owner of or principal participating associate of a firm actively engaged in Architectural Practice.

Registered Practicing Engineer- An individual duly licensed under the Laws of the State of Texas to practice the profession of Engineering and who is an owner of or principal participating associate of a firm or employee of a firm actively engaged in consulting Mechanical or Sanitary Engineering.

Relief Vent- A relief vent is a vent the primary function of which is to provide circulation of air between drainage and vent systems.

Return Offset- A return offset is a double offset installed so as to return the pipe to its original alignment.

Revent Pipe- A revent pipe (sometimes called an individual vent) is that part of a vent pipe line which connects directly with an individual waste or group of wastes, underneath or back of the fixture and extends to the main or branch vent pipe.

Rim- A rim is an unobstructed open edge of a fixture.

Riser- A riser is a water-supply pipe which extends vertically one full story or more to convey water to branches or fixtures.

Roof Drain- A roof drain is a drain installed to receive water collecting on the surface of a roof and to discharge it into the leader (downspout).

Roughing-In - Roughing-in is the installation of all parts of the plumbing system which can be completed prior to the installation of fixtures. This includes drainage, water supply, and vent piping, and the necessary fixture supports.

Revent- Revent is a vent connecting to the drain pipe through a fitting at an angle not greater than 45 degrees to the vertical.

Sand Interceptor- See Interceptor

Sanitary Sewer- A sanitary sewer is a pipe which carries sewage and excludes storm surface and ground water.

Second Hand- Second hand as applied to material or plumbing equipment is that which has been installed, and has been used, removed, and passed to another ownership or possession.

Separator- See Interceptor.

Septic Tank- A septic tank is a watertight receptacle which receives the discharge of a drainage system or part thereof, and is designed and constructed so as to separate solids from the liquid, digest organic matter through a period of detention, and allow the liquids to discharge into the soil outside of the tank through a system of open-joint or perforated piping, or disposal pit.

Sewage- Sewage is any liquid waste containing animal or vegetable matter in suspension or solution, and may include liquids containing chemicals in solution.

Shall- The word "shall" is used as a mandatory term.

Size of Pipe and Tubing- See Diameter.

Slope- See Grade.

Soil Pipe- A soil pipe is any pipe which conveys the discharge of water closets or fixtures having similar functions, with or without the discharge from other fixtures, to the building drain or building sewer.

Soil Vent- See Stack Vent.

Special Waste Pipe- See Article VIII.

Stack- A stack is the vertical main of a system of soil, waste, or vent piping.

Stack Group- Stack group is a term applied to the location of fixtures in telation to the stack so that by means of proper fittings, vents may be reduced to a minimum.

Stack Vent- A stack vent (sometimes called a waste vent or soil vent) is the extension of a soil or waste stack above the highest horizontal drain connected to the stack.

Stack Venting- Stack venting is a method of venting a fixture or fixtures through the vent stack.

Storm Drain- See Building Storm Drain.

Storm Sewer- A storm sewer is a sewer used for conveying rain water, surface water, condensate, cooling water, or similar liquid wastes.

Subsoil Drain- A subsoil drain is a drain which receives only subsurface or seepage water and conveys it to a place of disposal.

Sump- A sump is a tank or pit which receives sewage or liquid waste, located below the normal grade of the gravity system and which must be emptied by mechanical means.

Supports - Supports, hangers, and anchors are devices for supporting and securing pipe and fixtures to walls, ceiling, floors, or structural members.

Tank Operated Flush Valves - Hereinafter referred to a s Tank Flush Valves is a device located at the bottom of a tank for the purpose of flushing water closets and similar fixtures.

Trap - A trap is a fitting or device so designed and constructed as to provide, when properly vented, a liquid seal which will prevent the back passage of air without materially affecting the flow of sewage or waste water through it.

Trap Seal - The trap seal is the maximum vertical depth of liquid that a trap will retain, measured between the crown weir and the top of the dip of the trap.

Vacuum Breaker - See Backflow Preventer.

Vent Pipe - See Vent System.

Vent Stack - A vent stack is a vertical vent pipe installed primarily for the purpose of providing circulation of air to and from any part of the drainage system.

Vent System - A vent system is a pipe or pipes installed to provide a flow of air to or from a drainage system or to provide a circulation of air within such system to protect trap seals from siphonage and back pressure.

Vertical Pipe - A vertical pipe is any pipe or fitting which is installed in a vertical position or which makes an angle of anot more than 45 degrees with the vertical.

Waste - See Liquid Waste and Industrial Wastes.

Waste Pipe - A waste pipe is a pipe which conveys only liquid waste, free of fecal matter.

Water-Distributing Pipe - A water-distributing pipe in a building or premises is a pipe which conveys water from the water service pipe to the plumbing fixtures and other water outlets.

Water Main - The water (street) main is a water supply pipe for public or community use.

Water Operated Flush Valves - Hereinafter referred to as Flush Valves or Flushometers is a device which discharges a predetermined quantity of water to fixtures for flushing purposes and is actuated by direct water pressure.

Water Outlet - A water outlet, as used in connection with the water distributing system, is the discharge opening for the water (1) to a fixture; (2) to atmospheric pressure (except into an open tank which is part of the water supply system); (3) to a boiler or heating system; (4) to any water-operated device or equipment requiring water to operate, but not a part of the plumbing system.

Water Riser Pipe - See Riser.

Water Service Pipe - The water service pipe is the pipe from the water main or other source of water supply to the building served.

Water Supply System - The water supply system of a building or premises consists of the water service pipe, the water-distributing pipes, and the necessary connecting pipes, fittings, control valves, and all appurtenances in or adjacentto the building or premises.

Wet Vent - A wet vent is a vent which receives the discharge from wastes other than water closets

Yoke Vent - A yoke vent is a pipe connecting upward from a soil or waste stack to a vent stack for the purpose of preventing pressure changes in the stacks.

Article II. Administration

Sec 30-5. Plumbing Division.

The Plumbing Division shall be a part of the Housing and Inspections Department. No employee connected with the Plumbing Division, except a member of the board established by this Ordinance, shall be financially interested in the furnishing of labor, material, or appliances for the construction, alteration, or maintenance of plumbing installations in a building or in the making of plans or of specifications therefor, unless he is the owner of such building. No such employee shall engage in any work which is inconsistent with his duties or with the interests of the Division.

Sec. 30-5. Powers and duties of Director of Housing and Inspections.

a. Stop Work Orders. Upon notice from the Director that work or any plumbing installation is being done contrary to the provisions of this code or in a dangerous or unsafe manner, such work shall be immediately stopped. Such notice shall be in writing and shall be given to the owner of such property, or to his agent, or to the person doing the work, and shall state the conditions under which work may be resumed. Where any emergency exists, oral notice given by the Director shall be sufficient.

b. Revocation of Permits. The Director may revoke a permit or approval, issued under the provisions of this chapter, in case there has been any false statement or mis-representation as to a material fact in the application or plans on which the permit or approval was based. In all such cases no permit fees shall be refunded.

c. Requirements Not Covered by Code. Any requirements necessary for the safety, strength or stability of an existing or proposed plumbing installation, or for the safety of the occupants of a building or structure, not specifically covered by this code, shall be determined by the Director.

d. Alternate Materials and Alternate Methods of Installations. Alternate Plumbing materials and alternate methods of installations shall be approved in accordance with Section 30-52.

Section 30-6. Permit required.

Any person who desires to connect any plumbing work with any sewers or public water supply of the city, sanitary or storm, septic tanks or private connection or install fixtures or applicances in new or existing system, structures, or premises, or repair, or add to any existing plumbing, shall first make application to the Director and obtain the required permit therefor. Ordinary minor repairs may be made without a permit provided that such repairs shall not violate any of the provisions of this code.

Sec. 30-7. Application for Permit.

Application for a permit shall be made in person. The applicant shall furnish information as may be required to complete the application form furnished by the Director.

Sec. 30-8. Drawings and Specifications.

Whenever, in the opinion of the Director, drawings and specifications are needed to show definitely the nature and character of the work for which the application is made the applicant shall furnish such drawings and specifications. These drawings and specifiactions shall be drawn to scable.

Sec. 30-9. Issuance of Permit.

The Director shall act upon an application for a permit with plans as filed, or as amended, without unreasonable or unnecessary delay. A permit issued shallbe construed to be a license to proceed with the work and shall not be construed as authority to violate, cancel, alter, or set aside any of the provisions of this code, nor shall such issuance of a permit prevent the Director from thereafter requiring correction of errors in plans or in construction, or of violations of this code. Any permit issued shall become invalid unless the work authorized by it shall have been commenced within six months, after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of one year after the time the work is commenced; provided, that for cause, one or more extensions of time for period not exceeding ninety days each, may be allowed in writing by the Director.

No permit shall be valid until the fees prescribed in this section shall have been paid; nor shall an amendement to a permit be approved until the additional fees, if any, shall have been paid.

Schedule of Permit Fees

Permit Fees:	
For issuing each permit . . .	$1.00
In addition	
For each Plumbing Fixture or Trap or Set of Fixtures on one trap (including water and Drainage Piping). . .	$1.00
For each House Sewer. . .	$1.00
For each House Sewer having to be replaced or repaired. . .	$1.00
For each Water Heater and/or Vent. . .	$1.00
For each Gas Piping System ofl to 5 Outlets	$2.00
For each Gas Piping System of 6 or more, per outlet. . .	$ .50
For each Gas Piping System to 6 or more, per outlet. . .	$. 50
For installation of water piping for water treating equipment...	$1.00
For re-inspection. . .	$1.00

Point of Connection:

Building Sewers and Water Serv. Pipes shall connect to the Public Sewer and Water Main at a point designated by the proper Municipal Authority.

Sec. 30-10. Persons Who May Obtain a Permit.

Permits shall be issued only to the following:

1. Any duly licensed Master Plumber.

2. Any property for plumbing work to be done by him in a building owned or occupied by him as his home.

3. Any person who is regularly employed as or acting as a cmaintenance man or maintenance engineer for plumbing work incidental to and in connection with the business in which he is employed or engaged and who does not engage in the occupation of a plumber for the general public.

4. Any person who is employed by the railroad for plumbing work done upon the premises or equipment of the railroad and who does not engage in the occupation of a plumber for the general public.

5. Any person engaged by any public service co. forplumbing work in connection with laying, maintenance and operation of its service mains or lines and the installation, alteration, adjustment, repair, removal, and renovation of all types of appurtenances, equipment and appliances.

6. Any appliance dealer or employee of an appliance dealer who is acting as an appliance installation man or appliance service man in connecting appliances to existing piping installations.

Sec. 30-11. Failure to Obtain a Permit.

If any person commences any work on a plumbing installation before obtaining the necessary permit from the City, he shall be subject to the penalty prescribed herein.

Sec. 30-12. Inspection Required.

All new plumbing work, and such portions of existing systems as may be afrected by new work or any changes, shall be inspected to insure compliance with all the requirements of this code and to assure that the installation and construction of the plumbing system is in accordance with approved plans. It shall be the duty of the plumber to give reasonable advance notice to the Plumbing Division when plumbing work is ready for test or inspection.

If the Director finds that the work will not pass the test, the plumber shall be required to make necessary corrections and the work shall then be resubmitted for inspection. Where additional inspections are necessary for retesting there shall be an additional fee of $1.00 for each such inspection.

The equipment, material, power and labor necessary for the inspection and test shall be furnished by the plumber.

a. Test of Drainage and Vent Systems. All the piping of the plumbing system shall be tested with water or air. After the plumbing fixtures have been set and their traps filled with water, the entire drainage system shall be submitted for final inspection. The water test shall be applied to the drainage system either in its entirety or in sections. If applied to the entire system, all openings in the piping shall be tightly closed, except the highest opening and the system filled with water to point of overflow. If the system is tested in sections, each opening shall be tightly plugged except the highest openings of the section under test, and each section shall be filled with water, but no section shall be tested with less than a 42 inch head of water. In testing successive sections at least the upper 10 feet of the next preceding section shall be tested, so that no joint or pipe in the building (except the uppermost 10 feet of the system) shall have been submitted to a test of less than a 42 inch head of water. The water shall be kept in the system, or in the portion under test, for at least 15 minutes before inspection starts; the system shall then be tight at all points.

b. Test of Water-Supply System. Upon completion of a section or of the entire water-supply system, it shall be tested and proved tight under a water pressure not less than 150 lbs. The water used for tests shall be obtained from a potable source of supply.

c. Building Drain. All building drains shall be inspected and approved prior to backfill.

d. Covering the Work. The plumbing system or part thereof shall not be covered until it has been inspected, tested and approved as prescribed in this section. If a plumbing system or part thereof is covered before being inspected, tested, and approved as prescribed in this chapter it shall be uncovered upon the direction of the Director.

e. Test of Defective Plumbing. The drainage system of any building, where there is reason to believe that it has become defective, shall be subjected to test or inspection.

Sec. 30-13. Certificate of Approval.

a. Roughing-In Inspection. Upon the satisfactory completion of the roughing-in inspection, approval shall be so noted on the Plumbing Permit. This approval shall give the date of the roughing-in inspection and the initials of the Inspector.

b. Final Inspection. Upon the satisfactory completion and final test of the plumbing system, the approval shall be noted on the Plumbing Permit.

Sec. 30-14. Licensing of Plumbers.

Before any person, firm or corporation shall engage in the plumbing business within the City, he shall be qualified as set forth herein, and a license shall be obtained from the Texas Board of Plumbing Examiners as required and a proper Bond posted. Where any plumbing work is being done, a Master or Journeyman Plumber shall at all times be present on the job, and inactual control, and in charge of the work being done.

Sec. 30-15. Illegal Work.

Any person, firm or corporation engaged in the plumbing business whose work does not conform to the rules and regulations hereinafter set out, or whose workmanship or materials

are of inferior quality, shall on notice from the Director make necessary changes or corrections at once so as to conform to this code; if work has not been so changed after ten (10) days' notice from the Director, the Director shall then refuse to issue any more permits to such person, firm or corporation until such work has fully complied with the rules and regulations of this code.

Sec. 30-16. Bond Required.

Before any person, firm or corporation shall engage in the business of plumbing in the City, he, it, or they shall first obtain the proper license and deposit with the City a good and sufficient bond in the sum of Five Thousand ($5,000.00) Dollars, to be approved by the Director of Housing and Inspections, conditioned that the person, firm or corporation engaged in the plumbing business will faithfully observe all the laws pertaining to plumbing and drain laying; further, that the City shall be indemnified and saved harmless from all claims arising from accidents and damage of any character whatsoever caused by the negligence of such person, firm or corporation engaged inthe plumbing business, or by any other unfaithful inadequate work done either by themselves or their agents or employees.

Sec. 30-17. Allowing Ones Name, License or Bond to be Used to Obtain Permit Fraudulently.

No person, firm or corporation engaged in the business of plumbing shall allow his, its, or their names to be used by any other person, firm or corporation, directly or indirectly, to obtain a permit, or for the construction of any work under his, its or their names, license or bond; nor shall he, it or they make any misrepresentations or omissions in his, its or their application for permit.

Sec. 30-18. Violations and Penalties.

Any person, firm or corporation or agent who shall violate a provision of this code or fail to comply therewith or with any of the provisions thereof, or violate a detailed statement or plans submitted and approved thereunder, shall be guilty of a misdemeanor. Each such person shall be deemed guilty of a separate offense for each and every day or portion thereof during which any violation of any of the provisions of this code is committed or continued, and upon conviction in the Corporation Court of the City for any such violation such person shall be punished by a fine of not more than Two Hundred ($200.00) Dollars.

Sec. 30-19. Plumbing Appeals and Advisory Board.

There is hereby created a Board to be known as Plumbing Appeals and Advisory Board. Such Board shall consist of seven members, all of whom shall reside within the corporate limits of the City of San Antonio. The members shall be appointed by the City Council and shall consist of the following persons.

One Registered Practicing Architect

Two Registered Practicing Engineers

One Licensed and Bonded Master Plumber

One Licensed Journeyman Plumber

One Licensed Practicing Physician

One Layman

None of said members shall have held any public office within three years prior to appointment. The members shall choose from amony their number, one member to act as chairman and another member to act as secretary.

Sec. 30-20. Powers and Duties of the Board.

The Roard shall have jurisdiction over all appeals from decisions of the Director which relate to plumbing installation and shall have the power to pass upon the true intent and meaning of the provisions of this Code and also upon questions wherein it is claimed an equally good and desirable material can be used in any specific case and to permit the use of same if concurred in by the majority of the said Board, but it is expressly limited to those matters. The Board shall have no power to otherwise limit, modify or change the plumbing code as it now exists. All rulings and decisions of the Board of Plumbing Appeals shall be final and binding upon all parties and it shall be the duty of the Director of Housing to enforce the decision of the Board.

Whenever the Board of Appeals finds in this Code any provision that is inadequate or obsolete, it shall be the duty of the said Board to recommend the necessary amendments to this Code to the City Council through the City Manager.

Sec. 30-21. Appointment and Term.

(a) All present appointments to the Plumbing Appeals and Advisory Board shall be considered vacated upon the adoption of this Ordinance.

(b) Appointments shall be made by the City Council. All the terms of office of Board members shall be a period of two years. In making initial appointments to the Board, one architect, one engineer and one physician shall be appointed as Board members for a period of one year each. The other members shall be appointed for a period of two years and upon the expiration of said initial terms, all Board members thereafter appointed shall serve for two years.

Sec. 30-22. Meetings and Procedure.

Regular meetings of the Board shall be held on the second and fourth Wednesday of each month for the purpose of hearing appeals and rendering interpretations of the Plumbing Code and hearing applications for the proposed use of new materials and new methods of installation.

All meetings of the Board shall be conduct in accordance with Parliamentary Rules of Order and such other rules and regulations which shall be agreed upon by a majority of the members of the Board. Each member of the Board shall be entitled to one vote, which whall be in person.

Five members shall constitute a quorum. All decisions and proceedings of the Board shall be accurately recorded by the secretary in chronological order of occurance and decisions as announced shall be carefully preserved.

Sec. 30-23. Appeals to the Board.

Any person desiring to appeal to the Board shall give notice of such appeal in writing stating the grounds for the appeal. Such notice of appeal shall be filed in duplicate with the Director of Housing and Inspections; one copy to be retained by the said Director of Housing and Inspections and the other copy to be forwarded by him to the secretary of the Plumbing Appeals Board. All requests for a hearing shall be granted and the appellant shall be given reasonable and actual notice of the time and place at which such appeal will be heard by the Board.

Article III. General Regulations

Sec. 30-24. Conformance with Code.

All plumbing systems hereafter installed shall conform at least with the provisions of this Code. This applies to all State and local government property that is connected to City sewers.

Sec. 30-25. Grade of Horizontal Drainage Piping.

Horizontal drainage piping shall be run in practical alignment at a uniform grade. (See Article XII for specific slopes.)

Sec. 30-26. Change in Direction.

Changes in direction in drainage piping shall be made by the appropriate use of 45-degree wyes or 1/2 wyes, long or short sweep quarter bends, sixth, eight, or sixteenth bends, or by a combination of these orequivalent fittings. Single and double sanitary tees and quarter bends may be used in drainage lines only where the direction of flow is from the horizontal to the vertical.

Sec. 30-27. Fittings and Connections Prohibited.

a. Fittings. No fitting having a hub in the direction opposite to flow, or tee branch shall be used as a drainage fitting. No running threads, bands, or saddles shall be used in the drainage system. No drainage or vent piping shall be drilled or drilled and tapped.

b. Heel or Side-Inlet Bend. A heel inlet quarter bend shall not be used as a vent when the inlet is placed in a horizontal position.

c. Obstruction to Flow. No fittings or connection which offers abnormal obstruction to flow shall be permitted.

Sec. 30-28. Existing Buildings.

In existing buildings or premises in which plumbing installations are to be altered, repaired, or renovated, necessary deviations from the provision of this Code may be permitted, provided such deviations conform to the intent of the Code and are approved in writing by the Director.

Sec. 30-29. Health or Safety.

Whenever compliance with all the provisions of this Code fails to eliminate or alleviate a nuisance which may involve health or safety hazards, the owner or his agent shall install such additional plumbing or drainage equipment as may be necessary to abate such nuisance.

Sec. 30-30. Separation of Sewer and Water Pipes.

Water service pipes, or any underground water pipes, shall not be run or laid in the same trench as the building sewer or drainage piping, except as provided for in Articles XI and XII.

Sec. 30-31. Trenching, Excavation and Backfill.

a. Support of Piping. Buried piping shall be supported throughout its entire length.

b. Tunneling and Driving. Tunneling may be done in yards, courts, or driveways of any building site. When pipes are driven, the drive pipe shall be at least one size larger than the pipe to be laid.

c. Open Trenches. All excavations required to be made for the installation of a building-drainage system, or any part thereof within the walls of a building, shall be open trench work and shall be kept open until the piping has been inspected, tested and accepted. Mechanical means of excavation may be used.

d. Backfilling for Private Property. Adequate precaution shall be taken to insure proper compactness of backfill around piping without damage to such piping. Trenches shall be backfilled in thin layers to 12 inches above the top of the piping with clean earth which shall not contain stones, boulders, cinderfill, or other materials which would damage or break the piping or cause corrosive action.

Trenches for bituminized fiber pipe shall have true bottoms free from soft spots and stones. Pipe shall be laid on a 4 inch thick bed of sand with 1/4 to 1/3 of pipe's diameter

bedded in same, covered pipe with 4 to 6 inches of sand and tamped firmly. Then 8 inches of selected backfill free of large rocks, stones or debris shall be added and tamped. The trench shall be filled with backfill which is completely free of large rocks, stones, or debris of any nature.

Sec. 30-32. Structural Safety.

In the process of installing or repairing any part of a plumbing and drainage installation, the finished floors, walls, ceilings, tile work, or any other part of the building or premises which must be changed or replaced shall be left in a safe structural condition in accordance with the requirments of the Building Code. All workmanship shall conform to generally accepted good practice.

Sec. 30-33. Protection of pipes.

a. Breakage and Corrosion. Pipes passing unded or through walls shall be protected from breakage. Pipes passing through or under cinder or concrete or other corrosive material shall be protected against external corrosion by protective coating, wrapping, or other means which will prevent such corrosion.

b. Cutting or Notching. No structural member shall be weakened or impaired by cutting, notching, or otherwise.

c. Pipes through Footings of Foundation Walls. A soil or waste pipe, or building drain passing through a foundation wall shall be provided with a sleeve at least two pipe sizes greater than the pipe passing through or as may be approved in writing by the Director.

Sec. 30-34. Damage to Drainage System or Public Sewer Prohibited.

It shall be unlawful for any person to deposit by any means into the building drainage system or into a public or private sewer any ashes; cinders, rags; inflammable, poisonous, or explosive liquids; gasea; oils; grease; or any other material which would or could obstruct, damage, or overload such system or sewer.

Sec. 30 -35. Industrial Wastes.

Wastes detrimental to the public sewer system or detrimental to the functioning of the sewage-treatment plant shall be treated and disposed of as directed by the Director to other authority having jurisdiction.

Sec. 30-36. Sleeves.

Annular space between sleeves and pipes shall be filled or tightly calked with coal tar or asphaltum compound, lead, or other material found equally effective and approved as such by the Director. Exception to this provision may be granted where damage to piping due to movement is likely to occur.

Sec. 30-37. Ratproofing

a. Exterior openings. All exterior openings provided for the passage of piping shall be properly sealed with snugly fitting collars of metal or other approved ratproof material securely fastened into place.

b. Interior Openings. Interior openings through walls, floors, and ceilings shall be ratproofed as found necessary by the Director.

Sec. 30-38. Used equipment.

It shall be unlawful to install used or second hand equipment or material for plumbing installations unless it complies with the minimum standards set forth in this code.

Sec. 30-39. Condemned equipment.

Any plumbing equipment condemned by the Director because of wear, damage, defects, or sanitary hazards shall not be re-used for plumbing purposes.

Sec. 30-40. Depth of Building Outside Sewer and Water Service.

Sewera and water-service piping outside of a building shall be installed with a minimum of 1 foot of cover. Where conditions prohibit the required amount of cover, cast iron soil pipe must be used for sewers.

Sec. 30-41. Piping in Relation to Footings.

No piping shall be buried parallel to footings or outside bearing walls closer than three (3) feet; and such piping installed deeper than footings or bearing walls shall be 45 degrees therefrom; except as may be approved by the Director upon a finding that a less distance or greater angle is safe.

Sec. 30-42. Drainage Below Sewer Level.

Drainage piping located below the level of the sewer shall be installed as provided for in Articles XI and XII.

Sec. 30-43. Connections to Plumbing System Required.

All plumbing fixtures, drains, appurtenances, and appliances used to receive discharged liquid wastes or sewage shall be connected properly to the drainage system of the building or premises, in accordance with the requirements of this Code.

Sec. 30-44. Sewer Required.

Every building in which plumbing fixtures are installed shall have a connection to a public or private sewer except that when a public sewer is not available within 200 feet

for use, sewage and drainage piping shall be connected to an individual sewage-disposal system found to be adequate and approved by the City Health Department.

Sec. 30-45. Location of Fixtures.

Plumbing fixtures, except drinking fountains, single lavatories, and floor drains shall be located in compartment or rooms provided with ventilation and illumination confirming to standards of good practice. (See ASA A 53.1-1946)

Piping, fixtures, or equipment shall not be located in such a manner as to interfere with the normal operation of windows, doors, or other exit openings.

Sec. 30-46. Piping Measurements.

Except where otherwise specified in this Code, all measurements between pipes or between pipes and walls, etc., shall be made to the center lines of the pipes.

Sec. 30-47. Venting.

The drainage system shall be provided with a system of vent piping which will permit the admission or emission of air so that under no circumstances of normal or intended use shall the seal of any fixture trap be subjected to a pressure differential of more than 1 inch of water.

Sec. 30-48. Ventilation ducts.

Ventilation ducts from washrooms and toilet rooms shall exhaust to the outer air or form an independent system.

Sec. 30-49. Water closet connections.

a. Lead. Three-inch extra heavy lead bends and stubs may be used on water closets or similar connections, provided the inlet is dressed or expanded to receive a 4-inch floor flange.

b. Rigid. Wall outlet water closets may have rigid connections of approved manufacture.

c. Reducing. Four- by three-inch extra heavy lead or approved copper reducing bends are permitted.

Sec. 30-50. Dead Ends.

In the installation or removal of any part of a drainage system, dead ends shall be avoided except where necessary to extend a clean-out so as to be accessible.

Article IV. Materials - Quality and Weight

Sec. 30-50. Materials.

a. Minimum Standards. The materials listed in this chapter shall conform at least to the standards cited when used in the construction, installation, alteration, or repair of any part of the extension, addition, or relocation of existing soil, waste, or vent pipes with materials of like grade or quality, as permitted in Section 30-28.

b. Use of Materials. The following Table 30-50 outlines permissible materials for various uses subject to the restrictions of the following chapters. Materials other than those listed for the various uses may be permitted upon approval by the Director and the Plumbing Appeals and Avisory Board.

c. Identification of Materials. Each length of pipe and each pipe fitting, trap, fixture, and device used in a plumbing system shall have cast, stamped, or indelibly marked on it the maker's mark or name, the name, the weight, type and classes of the product, when such marking is required by the approved standard that applies.

Sec. 30-51. Special Materials.

a. Sheet lead. Sheet lead shall be not less than the following:

For shower pans- not less than 4 psf.
For flashings of vent terminals- not less than 3 psf.
Lead bends and lead traps shall not be less than extra heavy weight.

b. Cooper. Sheet cooper shall be not less than the following:

Shower pans- 12 oz. per sq. ft.
Vent terminal flashings- 8 oz. per sq. ft.

c. Calking Ferrules. Calking ferrules shall be manufactured from brass and shall be in accordance with the following table:

Pipe Sizes Inches	Inside Diameter Inches	Length Inches	Minimum Weight Each
2	2 1/4	4 1/2	1 lb. 0 oz.
3	3 1/4	4 1/2	1 lb. 12 oz.
4	4 1/4	4 1/2	2 lb. 8 oz.

d. Solder Nipples. Solder nipples, where permitted, shall be of red brass in accordance with the following table:

Pipe Sizes Inches	Minimum Weight Each
1 1/4	6 oz.
1 1/2	8 oz.
2	14 oz.
2 1/2	1 lb. 6 oz.
3	2 lb. 0 oz.
4	3 lb. 8 oz.

e. Floor Flanges. Floor flanges for water closets or similar fixtures shall be not less than one-eight inch thick, 16 oz., brass.

Flanges shall be soldered or sweated to lead or copper bends or stubs. Closet screws and bolts shall be brass.

f. Cleanouts. Cleanouts shall have plugs of brass and shall conform to Federal Specifications WW-P-401. Plugs may have raised square or countersunk heads. Countersunk heads should be used where raised heads may cause a hazard.

Sec. 30-52. Alternate Materials and Methods.

a. Approval. Provisions of this Code are not intended to prevent the use of any material, device, mthod of assemblage or installation, fixture, or appurtenance not specifically authorized, provided such alternate has been approved by the Board.

b. Evidence of Compliance. The Board shall require sufficient evidence to enable them to judge whether proposed alternates meet the requirements of this Code for safety and health.

c. Tests. When there is insufficient evidence to substantiate claims for alternates, the Board may require tests of compliance and proof to be made by an approved agency at the expense of the applicant. Tests shall be made in accordance with generally recognized standards; but in the absence of such standards, the Board shall specify the test procedure. The Board may require tests to be repeated if, at any time, there is reason to believe that an alternate no longer conforms to the requirements on which its approval was based.

d. Existing Premises. In existing buildings or premises in which plumbing installations are to be altered, repaired, or renovated, the Director has discretionary powers to permit deviation from the provisions of this Code, provided that such a proposal to deviate is first submitted to the Director for proper determination in order that health and safety requirements, as they pertain to plumbing, shall be observed.

Sec. 30-53. Approved Materials.

a. Periodic Review. The Director shall annually review the approved list of specifications and standards for materials in Table 30-53 and in Article VIII to check the designations, numbers, etc., which are used for identification, and if there are later issues shall submit them for their legal adoption. The Director shall maintain copies of all applicable standards and latest revisions thereto as outlined in Table 30-53. Such copies to be made readily available for reference in the office of the Director by all parties concerned by this Code.

b. Specific Usage. Wherever this Code indicates specifically the type of material permitted for the various parts of the plumbing system, the specifications or standards for each of those materials shall be as given in the following Table 30-53.

Article V. Joints and Connections.

Sec. 30-54. Tightness.

Joints and connections in the plumbing system shall be gastight and watertight for the pressure required by test, with the exception of those portions of perforated or open-joint piping which are installed for the purpose of collecting and conveying ground or seepage water to the underground storm drains.

Sec. 30-55. Types of Joints.

a. Calked Joints. Calked joints for cast-iron bell-and-spigot soil pipe shall be firmly packed with oakum or hemp and filled with molten lead not less than 1 inch deep and not to extend more than 1/8-inch below rim of hub. No paint, varnish, or other coatings shall be permitted on the jointing material until after the joint has been tested and approved.

b. Threaded Joints. Screwed Joints. Threaded joints shall conform to American National Taper Pipe Thread, ASA B2.1-1945 or FS GGG-P-351a. All burrs shall be removed. Pipe ends shall be reamed or filled out to size of bore, and all chips shall be removed. Pipe-joint cement and paint shall be used only on male threads.

c. Wiped Joints. Joints in lead pipe or fittings, or between lead pipe or fittings and brass or copper pipe, ferrules, solder nipples, or traps, shall be fullwiped joints. Wiped joints shall have an exposed surface on each side of a joint not less than one inch and at least as thick as the material being jointed.

d. Soldered or Sweat Joints. Soldered or sweat joints for tubing shall be made with approved fittings. Surfaces to be soldered or sweated shall be cleaned bright. The joints shall be properly fluxed and made with approved solder. Joints in copper water tubing shall be made by the appropriate use of approved brass water fittings, properly sweated or soldered together.

e. Flared Joints. Flared joints for soft tempered copper water tube shall be made with fittings meeting approved standards. The tubing shall be expanded with a proper flaring tool.

f. Flanged Joints. Flanged joints shall be installed in the various piping systems wherever connections are made to flanges on valves, strainers, or other items of equipment and appurtenances. On ferrous piping systems, assembled using screwed joints, cast iron screwed flanges shall be used, and they shall be of the proper pressure class; on ferrous piping systems assembled using welded joints, welding flange fittings shall be used of ratings based on the American Standard Code for Pressure Piping, A.S.A. B31.1- (latest modification). Flanges in copper lines shall be of cast brass with solder joint connections to the piping systems. Special flanges shall be provided where required and shall be of approved types.

g. Compound Joints for Sewer. Hot-poured or cold compound for clay or concrete sewer pipe shall not be water absorbent and when poured or molded against a dry surface shall have a bond of not less than 100 pse. All surfaces of the joint shall be cleaned and dried before pouring or molding. If wet surfaces are unavoidable, a suitable primer shall be applied. Compound shall not soften sufficiently to destroy the effectiveness of the joint when subjected to a temperature of 180 degrees F nor be soluble in any of the waste carried by the drainage system. Approximately 25 per cent of the annular joint space at the base of the socket shall be filled with jute or hemp. A pouring collar, rope or other device shall be used to hold the hot compound during pouring. Each joint shall be poured or moulded in one operation until the joint is completely filled. Joints shall not be tested until one hour after pouring.

h. Precast Joints. Precast collars shall be of resilient material formed in both the spigot and bell of the pipe in advance of use. The vitrified clay pipe and fittings shall be fitted with factory fabricated compression joints or couplings meeting the requirements set forth in the latest specifications for vitrified clay pipe using materials having resilient properties, designation C-425-58T, of the American Society for testing materials.

Prior to making joint contract, surfaces shall be cleaned and coated with solvents and adhesives as recommended in the standard. When the spigot end is inserted in the collar, it shall bind before contacting the base of the socket. Material shall be inert and resistant to both acids and alkalies.

i. Brazed Joints. Brazed joints shall be made in accordance with the provisions of Section 6 of the Code for Pressure Piping, ASA B31.1-1942 (with all supplements.)

j. Burned Lead Joints. Burned (welded) lead joints shall be lapped and the lead shall be fused together to form a uniform weld at least as thick as the lead being jointed.

k. Asbestos Cement Sewer Pipe Joints. Joints in asbestos cement pipe shall be made with sleeve couplings of the same composition as the pipe, sealed with rubber-neoprene rings. Joints between asbestos cement pipe and metal pipe shall be made by means of an adapter coupling calked as required in Section 30-55a.

l. Bituminized Fiber Pipe Joints. Joints in bituminized fiber pipe shall be made with tapered type couplings of the same material as the pipe. Joints between ~~asbestos cement pipe and metal pipe shall be made by means of an adapter coupling calked as required in Section 30-55a.~~ bituminized fiber pipe and metal pipe shall be made by means of an adapter coupling calked as required in Section 30-55a.

Sec. 30-56. Use of Joints.

a. Clay Sewer Pipe. Joints in vitrified clay pipe or between such pipe and metal pipe shall be made as provided in Sections 30-55g and 30-55h.

b. Concrete Sewer Pipe. Joints in concrete sewer pipe or between such pipe and metal pipe shall be made as in Sections 30-55g and 30-55h.

c. Cast-Iron Pipe. Joints in cast-iron soil pipe shall be calked as provided in Section 30-55a.

d. Screw Pipe to Cast Iron. Joints between wrought-iron, steel, brass, or copper pipe, and cast-iron pipe shall be either calked or threaded joints made as provided in Sections 30-55a and 30-55b or shall be made with approved adapter fittings.

e. Lead to Cast-Iron, Wrought-Iron, or Steel. Joints between lead and cast-iron, wrought-iron, or steel pipe shall be made by means of wiped joints to a calking ferrule, soldering nipple, or bushing as provided in Section 30-55c.

f. Copper Water Tube. Joints in copper tubing shall be made either by the appropriate use of approved brass or wrought copper water fittings, properly sweated or soldered together or by means of approved compression fittings as provided in Sections 30-55d and 30-55e.

g. Plastic Sewer Pipe. Plastic sewer pipe and joints to be in accordance with standards adopted by the Board.

h. Plastic Water Service Pipe. Plastic water pipe and joints to be in accordance with atandards adopted by the Board.

Plastic pipe shall be joined and fitted by solvent weld method according to manufacturers' published recommendations. Plastic fittings shall be of the socket type molded of the same material as the pipe. Threads shall not be cut on Schedule 40 weight plastic pipe.

Polyethylene pipe shall be joined and fitted with insert fittings. All stainless clamps shall be used to secure each fitting insert. At least one foot of slack pipe shall be left in each 100' run of polyethylene pipe. Use of polyethylene pipe shall be restricted to non-static pressure service as interpreted by the Board.

Sec. 30-57. Special Joints.

a. Slip Joints. In drainage and water piping, slip joints may be used only on the inlet side of the trap, in the trap seal, and on the discharge side of the trap where not concealed, and on the exposed fixture supply.

b. Expansion Joints. Expansion joints shall be accessible and may be used where necessary to provide for expansion and contraction of the pipes.

c. Ground Joint Brass Connections. Ground joint brass connections which allow adjustment of tubing but provide a rigid joint when made up shall not be considered as slip joints.

d. Copper Tubing to Screwed Pipe Joints. Joints from copper tubing to the threaded pipe shall be made by the use of brass converter fittings. The joint between the copper pipe and the fitting shall be properly sweated or soldered, and the connection between the threaded pipe and the fitting shall be made with a standard pipe size screw joint.

e. Brazing or Welding. Brazing or welding shall be performed in accordance with requirements of recognized published standards of practice and by licensed or otherwise qualified mechanics except when it is determined by the Director to be equivalent procedure for the purpose of this Code.

Sec. 30-58. Unions (Screwed).

a. Water Supply System. Unions in the water supply system shall be metal-to-metal with ground seats.

b. Drainage System. Unions may be used in the trap seal and on the inlet side of the trap. Unions shall have metal-to-metal seats.

Sec. 30-59. Water Closet, Pedestal Urinal, and Trap Standard Service.

Fixture connections between drainage pipes and water closets, floor-outlet service sinks, pedestal urinals, and earthenware trap standards, shall be made by means of flanges, soldered to the drainage pipe. Any aforementioned fixtures connected to piping which is buried in or in contact with the ground will be provided with lead pipe connections only. The connection shall be bolted, with an approved gasket or washer or setting compound between the earthenware and the connection. The floor flange shall be set on an approved firm base. The use of commercial putty or plaster isprohibited.

Sec. 30-60. Prohibited Joints and Connections.

Any fitting or connection which has an enlargement, chamber, or recess with a ledge, shoulder or reduction of pipe area, that offers an obstruction to flow through the drain, is prohibited. No fitting or connection that offers abnormal obstruction to flow, shall be used. The enlargement of a 3-inch closet bend or stub to 4 inches shall not be considered an obstruction.

No screw pipe joints will be permitted in the waste and drainage system buried in or in contact with the ground.

Sec. 30-61. Waterproofing openings.

Joints at the roof, around vent pipes, shall be made water-tight by the use of lead, copper, galvanized-iron, or other approved flashings or flashing material. Exterior wall openings shall be made water-tight.

Sec. 30-62. Increasers and reducers.

Where different sizes of pipes or pipes and fittings are to be connected, the proper size increasers or recuders or reducing fittings shall be used between the two sizes.

Article VI. Traps and Cleanouts

Sec. 30-63. Traps.

a. Fixture Traps. Plumbing fixtures, excepting those having integral traps, shall be separately trapped by a water seal trap, placed as close to the fixture outlet as possible.

(1) Provided, that a combination plumbing fixture may be installed on one trap, if one compartment is not more than 6 inches deeper than the other and the waster outlets are not more than 30 inches apart.

(2) Provided, that one trap may be installed for a set of not more than three single-compartment sinks or laundry trays or three lavatories immediately adjacent to each other in the same room, if the waste outlets are not more than 36 inches apart and the trap is centrally located when three compartments are installed.

b. Distance of trap from fixture. The vertical distance from the fixture outlet to the trap weir shall not exceed 30 inches.

Sec. 30-64. Type and Size of Traps and Fixture Drains.

a. Trap Size. The size (nominal diameter) of trap for a given fixture shall be sufficient to drain the fixture rapidly but in no case less than given in Table 30-136a. No trap shall be smaller than the fixture drain to which it is connected.

b. Type of Traps. Fixture traps, other than integral traps without partitions or movable parts, shall be self-cleaning except as specifically approved in other sections of this Code.

Slip joints or couplings may be used on the trap inlet or within the trap seal of the

trap if metal-to-metal ground joint is used.

A trap integral with the fixture shall have uniform interior and smooth waterway.

Cast Brass or lead P-traps, or lead bag traps shall be used on urinals which are not provided with integral traps.

c. Drum Traps. Drum traps shall be 3 or 4 inches in diameter by 10" deep and shall be provided with a water seal of not less than 2 inches.

The trap screw shall be one size less than the trap diameter.

Sec. 30-65. General Requirements.

a. Trap Seal. Each fixture trap shall have a water seal of not less than 2 inches and not more than 4 inches, except where a deeper seal is required by the Director for special conditions.

b. Trap Cleanouts. Each fixture trap, except those cast integral or in combination with fixtures in which the trap seal is readily accessible or except when a portion of the trap is readily removable for cleaning purposes, shall have an accessible brass trap screw of ample size protected by this water seal.

Cleanouts on the seal of a trap shall be made tight with threaded cleanout plug and approved washer.

c. Trap Level and Protection. Traps shall be set true with respect to their water seals and, where necessary, they shall be protected from freezing.

d. Traps Underground. Underground traps, except "P" traps into which floor drains with removable strainers discharge, shall be provided with accessible and removable cleanouts.

e. Prohibited Traps. The following traps are prohibited.

(1) Traps which depend for their seal upon the action of movable parts.

(2) Full "S" traps.

(3) Bell traps.

(4) Crown-vented traps.

f. Double Trapping Prohibited. No fixture shall be double trapped.

Sec. 30-66. Pipe Cleanouts.

a. Material and Design. The bodies of cleanout ferrules shall conform in thickness to that required for pipe and fittings of the same metal, and extend not less than 1/4-inch above the hub. For new work, the cleanout plug shall be of heavy brass not less than 1/8-inch thick and shall be provided with raised nut or recessed socket for removal. Bot ferrule and plug shall have American national tapered pipe threads. Heavy lead plugs may be used for repairing a cleanout where necessary.

b. Location. Cleanouts inside of buildings shall be not more than 50 feet apart in horizontal drainage lines of 4 inches nominal diameter or less and not more than 100 feet apart for larger pipes. Line cleanouts which may be rodded both ways shall be used whenever possible. Cleanouts shall be provided on outside of commercial buildings not more than 100 feet apart in horizontal drainage lines.

c. Underground Drainage. Cleanouts, when installed on an underground drain, shall be extended to or above the finished grade level directly above the place where the cleanout is installed; or may be extended to outside of the building and brought to grade as indicated above.

d. Change of Direction. Cleanouts shall be installed at each horizontal change of firection of the building drain greater than 45 degrees and at the end of each line or branch, except as hereafter specified. Cleanouts on horizontal branch laterals not greater than 90 degrees change of direction may beinstalled with wye and 1/8 bends, providing cleanout at end of lateral does not exceed 40 feet from junction. A single toilet or floor drain with 5 feet of main line is not considered a stack or line and does not require a cleanout. Batteries of fixture wastes connecting vertical into main line does not require individual cleanouts. Test tees may be used for cleanouts wherever practical.

e. Concealed Piping. Cleanouts on concealed piping shall be extended through and terminate flush with the finished wall or floor or brought to grade. Pits or chases may be left in the wall or floor, provided they are of sufficient size to permit removal of the cleanout plug and proper cleaning of the system.

f. Base of Stacks. A cleanout shall be provided at or near the foot of each vertical waste or soil stack.

g. Direction of Flow. Every cleanout shall be installed so that the cleanout opens in a direction opposite to the flow of the drainage line or at right angle thereto.

Cleanout plugs shall not be used for the installation of new fixtures or floor drains except where approved in writing by the Director.

Sec. 30-67. Size of Cleanouts.

a. Small Pipes. Cleanouts shall be of the same nominal size as the pipes up to 4 inches for larger piping.

b. Large Pipes. For underground piping over 10 inches, manholes shall be provided and

located at each 90 degree change in direction and at intervals of not more than 300 feet.

c. Covers. Approved metal covers shall be provided for manholes.

Sec. 30-67.1 Cleanout Clearances.

a. Large Pipes. Cleanouts on 3-inch or larger pipes shall be so installed that there is a clearance of not less than 18 inches for the purpose of rodding.

b. Small Pipes. Cleanouts smaller than 3 inches shall be so installed that there is a 12-inch clearance for rodding.

c. Concealment. Where it is necessary to conceal a cleanout plug, a covering plate or access door shall be provided which will permit ready access to the plug. Cement, plaster, or other permanent finishing material shall not be placed over a cleanout plug.

Sec. 30-68. Cleanout Equivalent.

A fixture trap or a fixture with integral trap, readily removable without disturving concealed roughing work, may be accepted as a cleanout equivalent, if there is no more than one 90 degree bend on the line to be rodded.

Sec. 30-69. Acidproof Traps; Installation.

Where a vitrified-clay or other brittleware, acidproof trap is installed underground, it shall be embeded in concrete to a thickness of 6 inches from the bottom and sided or the trap.

Article VII. Interceptors- Separators and Backwater Valves.

Sec. 30-70. Interceptors & Separators.

a. When Required. Interceptors (including grease, oil, and sand interceptors, etc.) shall be provided when, in the opinion of the Director, they are necessary for the proper handling of liquid wastes containing grease, flammable wastes, sand and other ingredients harmful to the building drainage system, the public sewer or sewage-treatment plant or processes.

b. Approval. The size, type and location of each interceptor or separator shall be approved by the Director and no wastes other thanthose requiring treatment or separation shall be discharged into any interceptor..

c. Separation. A mixture of light and heavy solids or liquids and solids having various specific gravities may be treated and then separated in an interceptor as approved by the Director in accordance with Section 30-72.

Sec. 30-71. Grease Interceptors, When Required.

A grease interceptor shall be installed in the waste line leading from sinks and dishwashers, drains, or other fixtures in the following establishments when, in the opinion of the Director, a hazard exists: restaurants, hotel kitchens or bars, factory cafeterias or restaurants, clubs, or other establishments where grease can be introduced into the drainage system in quantities that can effect line stoppage or hinder sewage disposal.

No grease interceptor shall be required for individual dwelling units or any private living quarters.

Sec. 30-72. Oil Separators.

An oil separator shall be installed in the drainage system or section of the system where, in the opinion of the Director, a hazard exists or where oils or other flammables can be introduced or admitted into the drainage system by accident or otherwise. The type of separator, the method of installation, and the location of same shall be approved by the Director.

Sec. 30-73. Sand Interceptors.

Sand and similar interceptors in commercial installations for heavy solids shall be so designed and located as to be readily accessible for cleaning and shall have a water seal of not less than 6 inches.

Sec. 30-74. Venting Interceptors.

Interceptors shall be so designed that they will not become air bound if closed covers are used. Each interceptor shall be properly vented.

Sec. 30-75. Accessibility of Interceptor.

Each interceptor shall be so installed as to provide ready accessibility to the cover and means for servicing and maintaining the interceptor in working and operating condition. The use of ladders or the removal of bulky equipment in order to service interceptors shall constitute a violation of this section.

Sec. 30-76. Efficiency of Interceptors.

a. Flow Rate. Grease interceptors shall be rated and approved for their efficiency as determined by the Director and in accordance with generally accepted practice, or in accordance with the following table:

~~Total Number of Fixtures Connected~~	~~Maximum Capacity of Fixtures Connected Gallons~~	~~Required Rate of Flow Per Minute Gallons~~	~~Grease Retention Capacity Pounds~~

Total Number of Fixtures Connected	Maximum Capacity of Fixtures Connected Gallons	Required Rate of Flow per Minute Gallons	Grease Retention Capacity Pounds
1	50	20	40
2	65	25	50
3	90	35	70
4	125	50	100

No grease interceptor shall be approved until it has successfully passed the rating procedure set up by the Director.

b. Water Connection Prohibited. Water connection for cooling or operating an interceptor shall not be permitted.

Sec. 30-77. Laundries, Interceptors.

Commercial laundries shall be equipped with an interceptor having a removable wire basket or similar devide that that will prevent strings, rags, buttons, or other materials detrimental to the public sewerage system from passing into the drainage system. The basket or other similar device shall prevent passage into the drainage system of solids 1/2-inch or larger in size, and shall be removable for cleaning purposes.

Sec. 30-78. Bottling establishments.

Bottling plants shall discharge their process wasts into an interceptor which will provide for the separation of broken glass or other solids, before discharging liquid wastes into the drainage system.

Sec. 30-79. Slaughter Houses.

a. Separators. Slaughtering-room drains shall be equipped with separators which shall prevent the discharge into the drainage system of feathers, entrails, and other materials likely to clog the drainage system.

b. Interceptors. Slaughtering and dressing room drains shall be provided with interceptors approved by the Director in accordance with Section 30-70b.

c. Food Grinder. Food grinder wastes may discharge directly to the building drainage system.

Sec. 30-80. Commercial Grinders.

Where commercial food-waste grinders are installed, the waste therefrom may discharge directly into the building drainage system instead of through a grease interceptor.

Sec. 30-81. Maintenance.

Interceptors shall be maintained in efficient operating condition by periodic removal of accumulated grease.

a. Where required; depth. Oil separators shall be installed when required by the Director and shall have a depth of not less than 2 feet below the invert of the discharge drain.

b. Motor Vehicle Storage. Interceptors shall have a capcity of 6 cubic feet where not more than three vehicles are serviced and one cubic foot in net capacity shall be added for each additional vehicle up to ten vehicles. Where more than ten vehicles are serviced and stored, the Director shall determine the size of separator required.

c. Motor Vehicle Servicing. Where storage facilities are not maintained, as in repair shops, the capacity of the separator shall be based on a net capacity of 1 cubic foot for each 100 square feet of surface to be drained into the interceptor with a minimum capacity of 6 cubic feet.

d. Special Type Separators. Before installing any special type separator a drawing including all pertinent information shall be submitted for approval of the Director, as being in accordance with this Code.

Sec. 30-83. Backwater Valves.

a. Fixtures Subject to Backflow. The installation of backwater devices shall be in accordance with lawful requirements of the Director of Public Works. (See also Section 30-139i)

b. Fixture Branches. Backwater valves shall be installed in the branch of the building drain which receives only the discharge from fixtures located within such branch and below grade and shall be so constructed as to insure a mechanical seal against backflow. All bearing parts shall be of bronze or other corrosion resistant material.

c. Diameter. Backwater valves, when fully opened, shall have a capacity not less than that of the pipes in which they are installed.

d. Location. Backwater valves shall be so installed as to provide ready accessibility to their working parts.

Article VIII. Plumbing Fixtures

Sec. 30- 4. General Requirements- Materials.

Plumbing fixtures shall be constructed from approved materials, have smooth impervious surfaces, be free from defects and concealed fouling surfaces, and, except as permitted elsewhere in this Code, shall conform in quality and design to one of the following standards:

Staple Porcelain Plumbing Fixtures, NBS Commercial Standard CS 4-29.

Vitreous China Plumbing Fixtures, NBS Commercial Standard CS 2-49.

Enameled Cast-Iron Plumbing Fixtures, NBS Commercial Standard CS 77-48.

Earthenware (vitreous glazed) Plumbing Fixtures, NBS Commercial Standard CS 111-43.

Plumbing Fixtures (for) Land Use, F.S. WW-P-541a-1947.

Formed Steel Enameled Sanitary Ware, F.S. WW-P-542.

Formed Metal Porcelain Enameled Sanitary Ware, NBS Commercial Standard CS 144-47.

Plumbing Fixtures, Fittings, Trim R 227-47.

Lavatory and Sink Traps R 21-46.

Sec. 30-85. Alternate Materials.

Sinks and special fixtures may be made of soapstone, chemical stoneware, or may be lined with lead, copper-base alloy, nickel-copper alloy, corrosion-resisting steel or other materials especially suited to the use for which the fixture is intended.

Sec. 30-86. Overflows.

a. Design. When any fixture is provided with an overflow, the waste shall be so arranged that the standing water in the fixture cannot rise in the overflow when the stopper is closed or remain in the overflow when the fixture is empty.

b. Connection. The overflow pipe from a fixture shall be connected on the house or inlet side of the fixture trap, except that overflows of flush tanks may discharge into the water closets or urinals served by them, but it shall be unlawful to connect such overflows with any other part of the drainage system.

Sec. 30-87. Installation.

a. Accessibility. Plumbing fixtures shall be installed in a manner to afford easy access for cleaning. Where practical, all pipes from fixtures shall be run to the nearest wall.

b. Joints. Where fixture comes in contact with wall and floor, the joint shall be watertight.

c. Securing Fixtures. Floor-outlet fixtures shall be rigidly secured to floor by screws or bolts.

d. Wall Hung Bowls. Wall hung water closet bowls shall be rigidly supported by a concealed metal supporting member so that no strain is transmitted to the closet connection.

e. Setting. Fixtures shall be set level and in proper alignment with reference to adjacent walls. (See Sec. 30-59)

Sec. 30-88. Water Supply Protection; Supply Fittings.

The supply lines or fittings for every plumbing fixture shall be so installed as to prevent backflow. (See Sec. 30-121c)

Sec. 30-89. Prohibited Fixtures and Connections.

Pan, valve, plunger, offset, wadhout, latrine, frostproof, and other water closets having an invisible seal or an unventilated space or having walls which are not thoroughly washed at each discharge, are prohibited. Any water closet which might permit siphonage of the contents of the bowl back into the tank shall be prohibited.

Sec. 30-90. Water Closets.

a. Public Use. Water closet bowls for public use shall be of the elongated type.

b. Flush Tank Capacity. Water closet tanks shall have a flushing capacity sufficient to properly flush the water closet bowls with which they are connected.

c. Float Valves. Float valves in lowdown tanks shall close tight and provide water to properly refill the trap seal in the bowl.

d. Close Coupled Tanks. The flush-valve seat in close coupled water closet combinations shall be 1 inch or more above the rim of the bowl, so that the flush valve will close even if the closet trapway is clogged; or any closets with flush valve seats below the rim of the bowl shall be so constructed that in case of trap stoppage, water will not flow continuously over the rim of the bowl.

e. Automatic Flush Valves. Flush valves shall be so installed that they will be readily accessible for repairing. When the valve is operated, it shall complete the cycle of operation automatically, opening fully and closing positively under the service pressure. At each operation the valve shall deliver water in sufficient volume and at a rate that will thoroughly flush the fixture and refill the fixture trap. Means shall be provided for regulating flush valve flow. Not more than one fixture shall be served by a single flush valve. Protection against backflow shall be provided as specified in Section 30-88.

f. Seats. Water closets shall be equipped with seats of smooth non-absorbent material. All seats of water closets provided for public use shall be of the open-front type. Integral water closet seats shall be of the same material as the fixture.

Sec. 30-91. Urinals.

a. Automatic Flushing Tank, When Required. Tanks flushing more than one urinal shall

be automatic in operation and of sufficient capacity to provide the necessary volume to flush and properly cleanse all urinals simultaneously.

b. Urinals Equipped with Flush Valves. Flush valves shall be as prescribed in Section 30-90e and no manually operated valve shall be used to flush more than one urinal. Automatic electrically operated flush valves in a battery of urinals may be controlled from one central control device.

c. Through Urinals. Through urinals shall be not less than 6 inches deep and shall be furnished with one-piece backs and have strainers with outlets at least 1 1/2" in diameter. The washdown pipe shall be perforated so as to flush with an even curtain of water against the back of the urinal. This pipe shall be securely clamped as high as practicable to the back of the urinal. Trough urinals with tanks shall have a flushing capacity of not less than 1 1/2 gallons of water for each 2 feet of urinal length. Continuous water flow through perforated washdown pipe may be used to flush trough urinals.

d. Equivalent Length. Trough urinals shall be figured on the basis of one (1) urinal for each 18 inches of length, i.e.,

24-inch trough equals 1 urinal
36-inch trough equals 2 urinals.
48-inch trough equals 2 urinals.
60-inch trough equals 3 urinals.
72-inch trough equals 4 urinals.

e. Floor-Type Urinals Prohibited. Floor-type trough urinals urinals are prohibited.

f. Surrounding Materials. The wall and floor space to a point 1 foot in front of urinal lip and 4 feet above the floor, and at least 1 foot to each side of the urinal, shall be lined with non-absorbent materials.

Sec. 30-92. Strainers Required.

All plumbing fixtures, other than water closets and syphon-action washdown or blowout urinals, shall be provided with metal strainers having waterway area complying with Section 30-84.

Sec. 30-93. Waste Outlets in Lavatories.

Lavatories shall have waste outlets not less than 1 1/4 inches in diameter. Wastes may have open strainers or may be provided with stoppers.

Sec. 30-94. Shower Receptors and Compartments.

a. Shower. All shower compartments, except those built directly on the ground or those having metal enameled receptors, shall have a properly protected lead or copper shower or the approved equivalent thereof or as determined by the Director or in the case of dwellings as approved by the F.H.A. The pan shall turn up on all sided at least 4 inches above the finished floor level or 3" above finished curb level whichever is the highest. Traps shall be so constructed that the pan may be securely fastened to the trap at the seepage entrance making a water-tight joint between the pan and trap. Shower receptacle waste outlets shall be not less than 2 inches in diameter and have removable strainers.

b. On the Ground. Shower receptors built on the ground shall be constructed from dense non-absorbent and non-absorbent and non-corrosive materials and shall have smooth impervious surfaces, or as provided in Section 30-94a.

c. Construction. Floors under shower compartments shall be laid on a smooth and structurally sound base and shall be lined and made watertight with sheet lead, copper, or other acceptable materials. Shower compartments located in basements, cellers, or in other rooms in which the floor has been laid directly on the ground surface need not be lined.

d. Public or Institution Showers. Floors of public shower rooms shall be drained in such a manner that no waste water from any shower head will pass over areas occupied by other bathers.

e. Walls. Shower compartments shall have walls constructed of smooth, non-corrosive and non-absorbent waterproof materials to a height of not less than 6 feet above the floor.

f. Joints. Build-in tubs with overhead showers shall have waterproofed joints between the tub and waterproof wall.

Sec. 30-95. Sinks.

a. Waste Outlets. Sinks shall be provided with waste outlets not less than 1 1/2 inches in diameter. Waste outlets may have open strainers or may be provided with stoppers.

b. Food Grinders. Sinks on which a food grinder is installed shall have a waste opening not less than 3 1/2 inches in diameter.

Sec. 30-96. Food Waste Grinder Units.

a. Separate Connections. Domestic food waste disposal units may be connected and trapped separately from any other fixture or compartment. Units shall have either automatic or hand-operated water supply control. (See Section 30-121) No food waste grinder shall be connected through a grease interceptor.

b. Commercial Type Grinders, Requirements. Commercial type food grinders shall have an automatic water supply and shall be provided with not less than a 2-inch waste line. Each waste shall be trapped and vented as provided in other sections of this Code.

Sec. 30-97. Drinking Fountains.

a. Design and Construction. Drinking fountains shall conform to American Standard Specifications for Drinking Fountains. (ASA Z4.2-1942)

b. Protection of Water Supply. Stream projectors shall be so assembled as to provide an orifice elevation as specified by American Standard Air Gaps in Plumbing Systems (ASA A40.14-1942) and American Standard Backflow Preventers in Plumbing Systems. (ASA A40.16-1943.)

Sec. 30-98. Floor Drains.

Floor drains shall have approved metal traps and a minimum water seal of 3 inches and shall be provided with removable strainers. The open area of strainer shall be at least two-thirds of the cross section area of the drain line to which it connects.

Each floor drain shall be of a size to serve efficiently the purpose for which it is intended.

Sec. 30-99. Dishwashing Machines.

a. Protection. Domestic dishwashing machines shall meet requirements of Section 30-121c.

b. Separate Trap. Each unit shall be separately trapped and vented. Domestic dishwashers (pump models) may be installed to discharge on house side of sind P-trap.

c. Air Gap. Commercial dishwashing machines shall be connected through an air gap or as provided in Article X, "Indirect Waste Piping and Special Wastes." When a commercial dishwashing machines is located adjacent to a floor drain the waste from the dishwashing machines may be connected direct on the sewer side of the floor-drain trap.

d. Hot Water. Dishwashing machines or similar dishwashing equipment not in privatelining quarters or dwelling units shall be provided with water at 180 degrees F for sterilization.

Sec. 30-100. Multiple Wash Sinks.

a. Circular Type. Each 18 inches of wash sink circumference (circular type) shall be equivalent to one lavatory.

b. Straight Line Type. Multiple wash sinks of the straight line type shallhave hot and cold combination spouts not closer than 18 inches from adjacent similar spouts and each spout shall be considered the equivalent of one lavatory.

Sec. 30-101. Garbage Can Washers.

a. Discharge. Garbage can washers shall not discharge through a trap serving any other device or fixture.

b. Grease Interceptor Required. The discharge from a garbage can washer shall be connected through a grease interceptor.

c. Baskets. The receptacle receiving the wash from garbage cans shall be provided with a basket or similar device to prevent the discharge of large particles into the building drainage system.

d. Connections. Water supply connections shall conform to Section 30-121c.

Sec. 30-102. Laundry Trays.

a. Waste Outlets. Each compartment of a laundry tray shall be provided with a waste outlet not less than 1 1/2 inches in diameter and with a stopper.

b. Overflow. Laundry tray overflows shall conform to the requirements of Section 30-86a.

Sec. 30-103.k Special Fixtures and Specialties.

Baptistries, ornamental and lily pools, aquaria, ornamental fountain basins and similar constructions when provided with water supplies shall be protected from back-siphonage as required in Section 30-121c. Specialties requiring water and waste connections shall be submitted for approval of the Director.

Sec. 30-104. Minimum Facilities.

Wherever plumbing fixtures are installed they shall be in accordance with the following table, unless otherwise specifically provided:

TABLE 30-104 - TABLE OF MINIMUM FACILITIES[1]

TYPE OF BUILDING OR OCCUPANCY[2]	WATER CLOSETS	URINALS	LAVATORIES	BATHTUBS OR SHOWERS	DRINKING FOUNTAINS[3]
Dwelling or Apt. Houses	1 for each dwelg. or apartment unit		1 for each apt. or dwelling unit	1 for each apartment of dwelling unit	
Schools[4] Elementary Secondary	Male / Female 1 per 35 / 1 per 25 1 per 50 / 1 per 30	 1 per 30 male 1 per 30 male	Male / Female 1 per 75 / 1 per 60 1 per 75 / 1 per 60		 1 jet per 75 persons 1 jet per 75 persons
Office of Public Buildings	No. of Persons / No. of Fixtures 1-15 / 1 16-35 / 2 36-55 / 3 56-80 / 4 81-110 / 5 111-150 / 6 1 fixture for each 40 additional persons	Wherever urinals are provided for men, one water closet less than the no. specified may be provided for each urinal installed[2] except that the no. of water closets in such cases shall not be reduced to less than 2/3 of the minimum specified.	No. of Persons / No. of Fixtures 1-15 / 1 16-35 / 2 36-60 / 3 61-90 / 4 91-125 / 5 1 fixture for each 45 additional persons.		1 for each 75 persons.
Manufacturing, Warehouses, Workshops, Loft Building, Foundries and similar establishments[5]	No. of Persons / No. of Fixtures 1-9 / 1 10-24 / 2 25-49 / 3 50-74 / 4 75-100 / 5 1 fixture for each additional 30 employees.	Same substitution as above	1-100 persons 1 fixture for each 10 persons. Over 100, 1 for each 15 persons[6,7]	1 shower for each 15 persons exposed to excessive heat or to skin contamination with poisonous, infectious, or irritating material.	1 for each 75 persons
Dormitories[8]	Male: 1 for each 10 persons. Female: 1 for each 8 persons. Over 10 persons, add 1 fixture for each 25 additional males and 1 for each 20 additional females.	1 for each 25 men. Over 150 persons, add 1 fixture for each additional 50 men.	1 for each 12 persons (separate dental lavatories should be provided in community toilet rooms. Ration of dental lavatories for each 50 persons is recommended). Add 1 lavatory for each 20 males, 1 for each 15 females.	1 for each 8 persons. In the case of women's dormitories, additional bathtubs should be installed at the ratio of 1 for each 30 females. Over 150 persons, add 1 fixture for each 20 persons.	1 for each 75 persons

TABLE 30-104 - TABLE OF MINIMUM FACILITIES[1] (Continued)

TYPE OF BUILDING OR OCCUPANCY[2]	WATER CLOSETS	URINALS	LAVATORIES	BATHTUBS OR SHOWERS	DRINKING FOUNTAINS[3]
Theatres, Auditoriums	No. of Persons / No. of Fixtures M. / F. 1-100 / 1 / 1 101-200 / 2 / 2 201-400 / 3 / 3 Over 400, add 1 fixture for each additional 500 males and 1 for each 300 females	No. of Persons (Male) / No. of Fixtures 1-200 / 1 201-400 / 2 401-600 / 3 Over 600, 1 for additional 300 males.	No. of Persons / No. of Fixtures 1-200 / 1 201-400 / 2 401-600 / 3 Over 750, 1 for each additional 500 persons.		1 jet per 200 persons

1 The figures shown are based upon one fixture being the minimum required for the number of persons indicated or any fraction thereof.

2 Building category not shown on this table. Will be considered separately by the Chief Plumbing Inspector.

3 Drinking fountains shall not be installed in toilet rooms.

4 This schedule has been adopted (1945) by the National Council on Schoolhouse Construction.

5 As required by the American Standard Safety Code for Industrial Sanitation in Manufacturing Establishments (ASA Z4.1-1935).

6 Where there is exposure to skin contamination with poisonous, infectious, or irritating materials, provide 1 lavatory for each 5 persons.

7 4-lineal inches of wash sink or 18 inches of a circular basin, when provided with water outlets for such space, shall be considered equivalent to 1 lavatory.

8 Laundry trays, 1 for each 50 persons. Slop sinks, 1 for each 100 persons.

GENERAL. In applying this schedule of facilities, consideration must be given to the accessibility of the fixtures. Conformity purely on a numerical basis may not result in an installation suited to the need of the individual establishment. For example, schools should be provided with toilet facilities on each floor having classrooms.

Article IX. Hangers and Supports

Sec. 30-105. Vertical Piping.

a. Attachment. Vertical piping shall be secured at sufficiently close intervals to keep the pipe in alignment and carry the weight of the pipe and contents.

b. Cast Iron Soil Pipe. Cast iron soil pipe shall be supported at the base and at each story level not to exceed 15 feet.

c. Screwed Pipe. Screwed Pipe (SPS) shall be supported at the base and at not less than every other story level not to exceed 30 feet.

d. Copper Tube. Copper tube shall be supported at each story for piping 1 1/2 iches and over and at not more than 6 foot intervals for piping 1 1/4 inches and smaller.

e. Lead Pipe. Lead pipe shall be supported at intervals not exceeding 4 feet.

Sec. 30-106. Horizontal Piping.

a. Supports, In General. Horizontal piping shall be supported at sufficiently close intervals to keep it in alignment and prevent sagging.

b. Cast Iron Soil Pipe. Cast iron soil pipe shall be supported at not more than 5-foot intervals.

c. Screwed Pipe. Screwed pipe (SPS) shall be supported at approximately 10-foot intervals.

d. Copper Tubing. Copper tubing shall be supported at approximately 6-foot intervals for piping 1 1/2 inches and smaller and 10-foot intervals for piping 2 inches and larger.

e. Lead Pipe. Lead pipe shall be supported by strips or otherwise for its entire length.

f. In Ground. Pipe in the ground shall be laid on a firm bed for its entire length, except where support is otherwise provided which is adequate in the judgment of the Director.

Sec. 30-107. Hangers and Anchors.

Hangers and anchors shall be of metal of sufficient strength to maintain their proportional share of the pipe alignments and prevent rattling and shall be securely attached to the building construction.

Sec. 30-108. Stains and Stresses.

a. Installation of Pipe. Piping in a plumbing system shall be so installed as to prevent undue strains and stresses. Provisions shall be made for expansion and contraction of piping and for structural settlement that may affect the piping.

b. Piping in Concrete. Piping in concrete or masonry walls or footings shall be placed or installed in chases or recesses which will permit access to the piping for repairs or replacement.

Article X. Indirect Waste Piping and Special Wastes

Sec. 30-109. Genreal.

Wastes from the following shall discharge to the building drainage system through an air gap serving the individual fixtures, devices applicances or apparatus.

a. Food Handling. Establishments engaged in the storage, preparation, selling, serving, processing, or otherwise handling of food shall have the waste piping from all refrigerators, ice boxes, cooling or refrigerating coils, steam tables, egg boilers, coffee urns or similar equipment discharge indirectly into a sink or receptor and the waste outlet shall terminate at least 2 inches above the flood rim of such sink or receptor.

b. Connection. Indirect waste connections shall be provided for drains, overflows, or relief vents from the water supply system or air conditioning units.

c. Sterile Materials. Appliances, devices, or apparatus such as sterilizers, stills, and similar equipment requiring water and waste connections and used for sterile material shall be indirectly connected or provided with an air gap between the trap and the appliance.

d. Drips. Appliances, devices, or apparatus not regularly classed as plumbing fixtures but which have drips or drainage outlets, shall be drained by indirect waste pipes discharging into an open receptacle as provided in Paragraph 30-109b.

e. Commercial Dishwashing Machines. Dishwashing machines, except those in private living quarters or dwelling units, shall be indirectly connected, except that when a dishwashing machine is located adjacent to a floor drain the waste from the dishwashing machine may be connected direct on the sewer side of the floor-drain trap.

f. Interceptor. An interceptor may be placed on the outlet side of the dishwashing machine, or on the discharge side of the indirect waste receptor.

Sec. 30-110. Material and Size.

The material and size ofindirect waste pipes shall be in accordance with the provisions of the other sections of this Code applicable to sanitary drainage piping.

Sec. 30-111. Length

a. Waste Pipe. Any concealed indirect waste pipe exceeding five feet in length shall be trapped at its inlet, except that condensate drains in refrigeration Air Conditioning Systems shall not require traps.

b. Maximum Length. The maximum length of the indirect waste to vent shall not exceed 15 feet.

c. Accessibility. Indirect waste piping shall be so installed as to permit ready access for flushing and cleansing.

Sec. 30-112. Air Gap or Backflow Preventer.

The air gap between the indirect waste and the building drainage system shall be at least twice the effective diameter of the drain served and shall be provided in one of the following ways:

a. By extending the indirect waste pipe to an open, accessible slop sink, floor drain, or other suitable fixture which is properly trapped or vented. The indirect waste shall terminate a sufficient distance above the flood level rim of the receiving fixture to provide the required air gap, and shall be installed in accordance with other applicable sections of this Code.

b. By providing a break (air gap) in the drain connection on the inlet side of the trap serving the fixture, device, appliance or apparatus.

Sec. 30-112. Receptors.

a. Installation. Waste receptors serving indirect pipes shall not be installed in any toilet room, nor in any inaccessible or unventilated space, or any return air plenum.

b. Cleanout Location. If the indirect waste receptor is set below floor level, cleanout shall be brought level with the floor.

c. Strainers and Baskets. Every indirect waste receptor shall be equipped either with a readily removable metal basket or a dome strainer except no strainer shall be required on receptors receiving clear water waste.

d. Splashing. All plumbing receptors receiving the discharge of indirect waste pipes shall be of such shape and capacity as to prevent splashing or flooding. No plumbing fixture which is used for domestic or culinary purposes shall be used to receive the discharge of an indirect waste pipe.

Sec. 30-114. Clear Water Wastes.

Water lifts, expansion tanks, cooling jackets, sprinkler systems, drip or overflow pans, or similar devices which waste clear water only shall discharge onto a roof or into the building drainage system through an indirect waste.

Sec. 30-115. Condensers and Sumps.

No steam pipe shall connect to any part of a drainage or plumbing system, nor shall any water above 180 degrees F. be discharged into any part of a drainage system. Such pipes may be directly connected to the system by discharging into an interceptor then into the drainage system.

Sec. 30-116. Drinking Fountains.

Drinking fointains may be installed with indirect wastes.

Sec. 30-117. Acid and Special Wastes.

a. Acid Waste. Acid and chemical indirect waste pipes shall be of materials unaffected by the discharge of such wastes.

b. Neutralizing Device Required. In no case shall corrosive liquids, spent acids, or other harmful chemicals which might destroy or injure a drain, sewer, soil or waste pipe, or which might create noxious or toxic fumes, discharge into the plumbing system without being thoroughly diluted or neutralized by passing through a properly constructed and acceptable dilution or neutralizing device. Such device shall be automatically provided with a sufficient intake of diluting water or neutralizing medium, so as to make its contents nonimjurious before being discharged into the soil or sewage system.

c. Special Wastes. Clear water wastes under counters such as soda fountains, cooling unit condensate drips, steam tables, crushed ice chests, chilled water stations, cooling coil water, food counters, etc., shall be considered special wastes. Where convenient, they may be combined above the floor with their respective fittings and cleanouts, and site drip into a bar waste or properly trapped and vented floor sink. In other instances, each shall site drip into their own trap. An individual trap within 10 feet of its bar waste or floor sink need not be individually vented. Domestic plumbing fixtures shall not connect to these lines.

Wastes on commercial equipment such as scullery compartment sinks, dishwashers, grease traps, X-Ray and developing tanks, washing machine stand pipes, shall algo be considered special wastes.

Article XI. Water Supply and Distribution

Sec. 30-118. Quality of Water Supply.

a. Acceptable Sources. Where a public supply of potable water is not available, requirements satisfactory to the City Health Department shall be observed.

b. Non-potable Water. Non-potable water may be used for flushing water closets and

and urinals and other fixtures not requiring potable water, provided such water shall not be accessible for drinking or culinary purposes.

Sec. 30-119. Identification of Piping Carrying Non-Potable Water. (Color Code)

All piping conveying non-potable water shall be adequately and durably identified by a distinctive yellow-colored paint so that it is readily distinguished from piping carrying potable water. (See ASA Z53-1-1945 Safety Color Code for Marking Physical Hazards.)

Sec. 30-120. Water Supply Mandatory.

Every building for human occupancy or habitation in which plumbing gixtures are installed shall be provided with an ample supply of pure and wholesome water.

Sec. 30-121. Protection of Potable Water Supply.

a. Cross Connections. Potable water supply piping, water discharge outlets, backflow prevention devices or similar equipment shall not be so located as to make possible their submergence in any contaminated or polluted liquid or substance.

b. Approval of Devices. Before any device for the prevention of backflow or back-siphonage is installed, it shall have first been certified as meeting the requirements of the Texas State Department of Health by a recognized testing laboratory acceptable to the Director. Devices installed in a potable water supply for protection against backflow shall be maintained in good working condition by the person or persons having control of such devices. The Director may inspect such devices and, if found to be defective or inoperative, shall require the replacement or repair thereof.

c. Backflow. The water distribution system shall be protected against backflow. Every water outlet shall be protected from backflow, preferably by having the outlet end from which the water flows sufficient to provide a "minimum required air gap" as defined in ASA A40.4-1942. Where it is not possible to provide a minimum air gap, the water outlet shall be equipped with an accessibly located backflow preventer complying with requirements of the Texas State Department of Health, installed on the discharge side of the manual control valve.

Sec. 30-122. Vacuum Breakers and Air Gaps.

a. Flush Valves. Flush valves shall be equipped with an approved vacuum breaker. The vacuum breaker shall be installed on the discharge side of the flushing valve with the vertical level at least 4 inches above the overflow rim of the bowl.

b. Flushing Tanks. Flushing tanks shall be equipped with an approved ball-cock. The ball-codk shall be installed with the critical level of the vacuum breaker at least 1 inch above the full opening of the overflow pipe. In cases where the ball-cock has no hush tube, the bottom of the water supply inlet shall be installed linch above the full opening of the overflow pipe.

c. Lawn Sprinklers. Lawn sprinkler systems shall be equipped with an approved preventer on the discharge side of each of the last valves. The preventer shall be at least 6 inches above the highest head and at no time less than 6 inches above the surrounding ground. Where combination control valves and backflow preventers are installed, the bottom of the valve shall constitute the bottom of the backflow preventer.

d. Valve Outlet. Fixtures with hose attachments shall be protected by an approved backflow preventer installed six inches above the highest point of usage and on the discharge side of the valve.

sec. 30-123. Water Distribution Pipe, Tubing and Fittings.

a. Materials. Materials for water pipies and tubing shall be brass, copper, cast iron, wrought iron, open-hearth iron, or steel, with appropriate approved fittings. All threaded ferrous pipe and fittings shall be galvanized (zinc coated) inside and outside or galvanized outside and cement lined inside. When used underground, all ferrous pipe and fittings shall be coated with coal tar enamel or other coatings approved for such purpose, and all threaded joints therein shall be coated and wrapped after installation, all such methods to be approved by the Director. (See Article IV for Standards on Coal Tar Enamel Coatings.) Underground connections between ferrous and non-ferrous pipe shall be made only through an approved dielectric insulating type of coupling, union, or connector.

b. Inaccessible pipes. Inaccessible water piping in or under floor slabs shall be minimum weight Type L copper tybing. Copper piping shall be continuous through the floor having no fitting or joints below the surface of the floor.

c. Separation from drain and sewer. Except as permitted in Section 30-123d, the underground water-service pipe and the building drain or building sewer shall be not less than 5 feet apart horizontally and shall be separated by undisturbed or compacted earth.

d. When separation not required. Where the water-service pipe is 2" in diameter and less, the water service pipe may be placed in the same trench with the building drain and building sewer provided the following conditions are met:

The bottom of the water-service pipe, at all points, shall be at least 12 inches above the top of the sewer at its highest point. The water-service pipe shall be placed on a solid shelf excavated at one side of the common trench. The number of joints in the water-service pipe shall be kept to a minimum. The materials and joints of sewer and water-service pipe shall be installed in such manner and shall possess the necessary strength and durability to prevent the escape of solids, liquids, and gases, therefrom, under all known adverse conditions such as corrosion, strains due to temperature changes, settlement, vibrations, and superimposed loads.

e. Stop and Waste Valve Combination. Combination stop-and-waste valves and cocks shall not be installed in an underground service pipe.

f. Private Water Supply. Noprivate water supply shall be inter-connected with any public water supply.

Sec. 30-124. Water Pumping and Storage Equipment.

a. Pumps and Other Appliances. Water pumps, tanks, filters, softeners, and all other appliances and devices shall be protected against contamination.

b. Water Supply Tanks. Potable water supply tanks shall be properly covered to prevent the entrance of foreign material or insects into the water supply. Soil or waste lines shall not pass directly over such tanks.

c. Pressure Tanks, Boilers, and Relief Valves. The drains from pressure tanks, boilers, relief valves and similar equipment shall be connected to a drainage system through an indirect waste.

d. Cleaning, Painting, Repairing Water Tanks. Potable water-supply tank used for domestic purposes shall not be lined, painted, or repaired with any material which will affect either the taste or the potability of the water supply when the tank is returned to service. Tanks shall be disconnected from the system during such operations, to prevent any foreigh fluid or substance from entering the distribution piping.

Sec. 30-125. Water Supply Tanks.

a. When Required. When the water pressure from the City mains during flow is insufficient to supply all fixtures freely and continuoulsy, the rate of supply shall be supplemented by a gravity house tank or booster system.

b. Support. All water-supply tanks shall be supported in accordance with the building code or other regulations which apply.

c. Overflow Pipes for Water-Supply Tanks. Overflow pipes for gravity tanks shall discharge above and within 6 inches of a roof or catch basin, or they shall discharge over an open, water-supplied sink. Adequate overflow pipes properly screened against the entrance of insects and vermin shall be provided.

d. Tank Supply. The water-supply inlet within the tank shall be at an elevation not less than is required for an air gap in an open tank with overflow, but in no case shall the elevation be less than 4 inches above the overflow.

e. Drains. Water-supply tanks shall be provided with valved drain lines located at their lowest point and discharged as an indirect waste or as required for overflow pipes in Section 30-121c.

f. Size of Overflow. Overflow drains for water supply tanks shall not be less than the following:

Drain Pipe (Inches)	Tank Capacity (Gallons)	Drain Pipe (Inches)	Tank Capacity Gal.
1	Up to 750.	2 1/2	3,001 to 5,000.
1 1/2	751 to 1,500.	3	5,001 to 7,500.
2	1,501 to 3,000.	4	Over 7,500.

Each drain line shall be equipped with a quick-opening valve of the same diameter as the pipe.

g. Gravity and Suction Tanks. Tanks used for domestic water supply, combined supply to fire standpipes and domestic water system, or to supply standpipes for fire-fighting equipment only, shall be equipped with tight covers which are vermin and rodent proof. Such tanks shall be vented with a return bend vent pipe having an area not less than one-half the area of the down feed riser and the vent opening shall be covered with a metallic screen of not less than 100 mesh.

h. Pressure Tanks. Pressure tanks shall be used for supplying water to domestic water distribution system, combined supply to fire standpipes and domestic water system.

Sec. 30-126. Allowance for Character of Water.

a. Selection of Materials. When selecting the material and size for water supply pipe, tubing, or fittings, due consideration shall be given to the action of the water on the interior and to the soil, fill or other material on the exterior of the pipe. No material that would produce toxic conditions in a potable water supply system shall be used for piping, tubing or fittings.

b. Used Piping. No piping material that has been used for other than a potable water supply system.

~~-----e.--Tank-Controls.--Supply-lines-taken-from-pressure-or-gravity-tanks----------~~

Sec. 30-127. Water Supply Control.

a. Water Supply Control. A main shut-off valve on the water service pipe shall be provided near the property line.

b. Tank Controls. Supply lines taken from pressure or gravity tanks shall be valved at or near their source.

c. Separate Controls for Each Family Unit. In two-family or multiple dwellings, each family unit shall be controlled by an arrangement of shut-off valves which permit each group of fixtures or the individual fixtures to be shut-off without interference with the water supply to any other family unit or portion of the building. All water

ORDINANCE 28, 815 continued.

closets, lavatories, and all water closets, lavatories, and all types of sinks shall be provided with individual stop or shut-off valves. A group of fixtures means two or more fixtures adjacent or near each other. In a one-family house, one or two bathrooms adjacent or one over the other may be considered a group.

d. Buildings Other Than Dwellings. In all buildings other than dwellings shut-off valves shall be installed, which permit the water supply to all equipment in each separate room to be shut off without interference with the water supply to any other room or portion of the building.

e. Water Heating Equipment. A shut-off valve shall be provided in the cold water branch line to each water tank or each water heater.

Sec. 30-128. Water Supply Distribution.

The water service pipe from the street main to the water distribution system for the building shall be of sufficient size to furnish an adequate flow of water to meet the requirements of the building at peak demand, and in no case shall be less than 3/4 inch nominal diameter from main to point of first building outlet or branch take-off. If flush valves or other devices requiring a high rate of water flow are used, the water service pipe shall be designed to supply this flow. The demand load in the building water supply system shall be based on the number and kind of fixtures installed and the probable simultaneous use of these fixtures.

Sec. 30-129. Procedure in Sizing the Water Distribution System of a Building.

a. Sizing. The sizing of the water distribution system shall conform to good engineering practice. When required by the Director, the sizing of the water distribution system shall be calculated by a registered mechanical engineer or other acceptable authority.

The minimum size of a fixture supply pipe shall be as follows:

TYPE OF FIXTURE OR DEVICE	PIPE SIZE (INCHES)	TYPE OF FIXTURE OR DEVICE	PIPE SIZE (INCHES)
Bath Tubs	1/2	Shower (Single Head)	1/2
Combination Sink and tray	1/2	Sinks (Serv., Slop)	1/2
Drinking Fountain	3/8	Sinks Flushing Rim	3/4
Dishwater (Domestic)	1/2	Urinal (Flush Tank)	1/2
Kitchen Sink, Residential	1/2	Urinal (Direct Flush-Valve)	3/4
Kitchen Sink, Commercial	3/4	Water Closet(Flush valve type)	1
Lavatory	3/8	Hose Bibbs	1/2
Laundry Tray, 1, 2 or 3 compartments	1/2	Wall Hydrant	1/2

For fixtures not listed, the minimum supply branch may be made the same as for the comparable fixture.

b. Auxiliary Pressure- Supplementary Tank. If the residual pressure in the system is below the allowable minimum at the highest water outlet when the flow in the system is at peak demand, an automatically controlled pressure tank or gravity tank shall be installed, of sufficient capacity to supply sections of the building installation which are too high to be supplied directly from the public water main.

c. Low Pressure Cut-Off. When a booster pump is used on an auxiliary pressure system and the possibility exists that a pressure of 20 pounds per square inch or less may occur on the suction side of the pump, there shall be installed a low-pressure cut-off on the booster pump to prevent the creation of negative pressures on the suction side of the water system. Other arrangments may be used if found adequate and if approved as such by the administrative authority.

d. Variable Street Pressures. When the street main has a wide fluctuation in pressure during the day, the water distribution system shall be designed for minimum operating pressure available.

e. Hazard and Noise. Where water pressures are excessive, air chambers or other approved mechanical devices shall be provided to reduce water hammer or line noises to such an extent that no pressure hazard to the piping system will exist.

Sec. 30-130. Hot Water Distribution.

The sizing of the hot water distribution piping shall conform to good engineering practice. (See Section 30-129)

Sec. 30-131. Safety Devices.

a. Pressure Relief Valve. Pressure relief valves shall be installed for all equipment used for heating or storage of hot water. The rate of discharge of such valve shall limit the pressure rise for any given heat input to 10 per cent of the pressure at which the valve is set to open.

b. Temperature Relief Valves or Energy Shut-Off Devices. Temperature relief valves or energy shut-off devices shall be installed for equipment used for the heating or storage of hot water. Each temperature relief valve shall be rated as to its BTU capacity. At 210 degrees F, it shall be capable of discharging sufficient hot water to prevent any further rise in temperature. As an alternative to the temperature relief valve, and in lieu thereof, an energy shut-off device may be used, which will cut off the supply of heat energy to the water tank before the temperature of the water in the tank exceeds 210 degrees F.

c. Approvals. Combination pressure and temperature relief valves, separate pressure and temperature relief valves, or energy shut-off devices, which have been tested and approved by, or meet the specification requirements of the American Gas Association, the Underwriter's Laboratories, Inc., or other recognized approved authorities, shall be considered acceptable.

2 San Antonio, Tx
Ordinance Book KK.
2-18-66 - 5-11-61

Relief Valve Location. Temperature relief valves shall be so located in the tank as to be actuated by the water in the top one-eight of the tank served and in no case more than 3 inches away from such tank. Pressure relief valves may be located adjacent to the equipment they serve. There shall be no check valve or shut-off valve between a relief valve and the heater or tank for which it is installed.

e. Relief Outlet Wastes. The outlet of a pressure, temperature, or other relief valve shall be piped to the outside of the building or to a waste outlet, so arranged as to prevent damage or injury due to escaping water or steam. It shall not be connected to the drainage system as a direct waste.

f. Pressure Marking of Storage Tank. Any storage tank hereafter installed for domestic hot water shall have clearly and indelibly stamped in the metal, or so marked upon a plate welded thereto, or otherwise permanently attached, the maximum allowable working pressure. Such markings shall be in an accessible position outside of the tank so as to make inspection or reinspection readily possible. All storage tanks for domestic hot water shall meet the applicable ASME standards.

Sec. 30-132. Miscellaneous.

a. Drain Cock. All storage tanks shall be equipped with adequate drain cocks.

b. Line Valves. Valves in the water supply distribution system, except those immediately controlling one fixture supply, when fully opened shall have a cross-sectional area of the nominal size of the pipe in which the valve is installed.

c. Water Used for Processing. Water used for cooling of equipment or similar purposes shall not be returned to the potable water distributing system. When discharged to the building drainage system, the waste water shall be discharged through an indirect waste pipe or air gap.

Article XII. Drainage System

Sec. 30-133. General.

a. Materials. Pipe, tubing and fittings for drainage systems shall comply with the provisions of Article IV of this Code. Above ground piping within buildings and piping in raceways or tunnels shall be of cast iron, galvanized open-hearth iron, leac, brass, or vopper pipe, or copper tubing. (See Section 39-50)

b. Underground Piping Within Buildings. All drains within buildings, when underground, shall be of cast iron soil pipe. For buildsing over two stories or more in height, the pipe shall be of extra-heavy weight cast iron.

c. Fittings. Fittings on the drainage system shall conform to the type of piping used. Fittings on screwed pipe shall be of the recessed drainage type. (See Section 30-27)

Sec. 30-134. Building Sewer.

a. Separate Trenches. The building sewer, when installed in a separate trench from the water-service pipe, shall be cast-iron sewer pipe, vitrified-clay sewer pipe, concrete sewer pipe, bituminized-fiber sewer pipe, or asbestos-cement sewer pipe, or asbestos-cement sewer pipe. Joints shall be watertight and rootproof.

b. One Trench. The building sewer, when installed in the same trench with the water-service pipe shall be constructed of durable materials which are corrosion-resistant and shall be so installed as to remain watertight and be rootproof. The building sewer shall be tested with a 10-foot head of water or equivalent and found to be tight.

c. Sewer in Filled Ground. A building sewer or building drain installed in filled or unstable ground shall be of cast-iron pipe, except that nonmetallic drains may be laid if installed in accordance with Section 30-134a; in any case, piping material which does not have the strength to bridge across unstable ground must be provided with a level support upon which the piping can rest without undue stress during settling action of unstable soil or ground.

d. Sanitary and Storm Sewers. Where separate systems of sanitary drainage and storm drainage are installed in the same property, the sanitary and storm building sewers or drains may be laid side by side in one trench.

e. Cleanouts. Cleanouts on building sewers shall be located as set forth under Section 30-66.

Sec. 30-135. Drainage Piping Installation.

Horizontal drainage piping shall be installed at a uniform slope but at slopes not less than as follows:

a. Small Piping. Horizontal drainage piping of 3-inch diameter and less shall be installed with a fall of not less than 1/4 inch per foot.

b. Large Piping. Horizontal drainage piping larger than 3-inch diameter shall be installed with a fall of not less than 1/8 inch per foot.

c. Minimum Velocity. Where conditions do not permit building drains and sewers to be laid with a fall as great as that specified, then a lesser slope may be permitted provided the computed velocity will not be less than 2 fps.

Sec. 30-126. Fixture Unit Valves.

a. Fixture unit valves as given in Table 30-136 a designate the relative load weight of different kinds of fixtures which shall be employed in estimating the total load carried by a soil water pipe and shall be used in connection with the tables of sizes for soil,

waste, and drain pipes for which the permissible load is given in terms of fixture units.

Table 30-136a

TABLE OF FIXTURE UNITS PER FIXTURE OR GROUP

FIXTURE TYPE	FIXTURE-UNIT VALVE AS LOAD FACTORS	MINIMUM SIZE OF TRAP[2] INCHES
Automatic Clothes Washer	3	2
1 Bathroom group consisting of water closet, lavatory and bathtub or shower stall	Tank Water Closet 6 Flush-valve Water Closet 8	
Bathtub[1] (with or without over-head shower)	2	2 C.I. or Copper "P" trap or drum trap
Bathtub[1]	3	
Bidet	3	Nominal $1\frac{1}{2}$
Combination sink and tray	3	$1\frac{1}{2}$
Combination sink and tray food disposal unit	4	Separate traps of $1\frac{1}{2}$
Dental unit or cuspidor	1	$1\frac{1}{4}$
Dental lavatory	1	$1\frac{1}{4}$
Drinking Fountain	$\frac{1}{2}$	$1\frac{1}{4}$
Dishwater[2] domestic	2	$1\frac{1}{2}$
Floor Drains	1	2
Kitchen sink, domestic	2	$1\frac{1}{2}$
Kitchen sink, domestic with food waste grinder	3	2
Lavatory[4]	1	Small P.O. $1\frac{1}{4}$
Lavatory[4]	2	Large P.O. $1\frac{1}{2}$
Lavatory, barber, beauty parlor	2	$1\frac{1}{2}$
Lavatory, surgeon's	2	$1\frac{1}{2}$
Laundry Tray (1 or 2 compartments)	2	$1\frac{1}{2}$
Shower Stall, domestic	2	2
Showers (group) per head[2]	3	
Sinks		
Surgeon's	3	$1\frac{1}{2}$
Flushing rim (with valve)	8	3
Service (trap standard)	3	3
Service (P trap)	2	2
Pot, Scullery, etc.[2]	4	$1\frac{1}{2}$
Urinal, pedestal, syphon jet, blowout	8	Nominal 3
Urinal, wall lip	4	$1\frac{1}{2}$
Urinal stall, washout	4	2
Urinal trough[2] (each 2-ft. section)	2	$1\frac{1}{2}$
Wash sink[2] (circular or multiple each set of faucets	2	Nominal $1\frac{1}{2}$
Water closet, tank-operated	4	Nominal 3
Water closet, valve-operated	8	3

Notes to Table 30-136a (Page 63)

1 A shower head over a bathtub does not increase the fixture value.

2 See Sec. 30-136b for method of computing unit value of fixtures not listed in Table 30-136a.

3 Size of floor drain shall be determined by the area of surface water to be drained.

4 Lavatories with $1\frac{1}{4}$ or $1\frac{1}{2}$-inch trap have the same load value; larger P.O. plugs have greater flow rate.

b. Fixtures not listed in Table 30-136a shall be estimated in accordance with the following Table 30-136b:

Table 30-136b

TABLE OF FIXTURE UNITS PER TRAP OR DRAIN SIZE

Fixture Drain or Trap Size (Inches)	Fixture Unit Value
$1-\frac{1}{4}$ and smaller	1
$1-\frac{1}{2}$	2
2	3
$2-\frac{1}{2}$	4
3	5
4	6

Sec. 30-137. Determination of Sizes for the Drainage System.

a. Maximum Fixture-Unit Load. The maximum number of fixture units that may be connected to a given size of building sewer, building drain, horizontal branch or vertical soil or waste stack is given in Tables 30-137a(1), 30-137a(2) and 30-137a(3).

Table 30-137a(1)

TABLE OF BUILDING DRAINS AND SEWERS

Diameter of Pipe (Inches)	Maximum number of fixture units that may be connected to any portion (1) of the building sewer. Fall per foot			
	1/16-inch	1/8-inch	1/4-inch	1/2-inch
2			(4)16	(4)20
2½			(4)19	(4)25
3		(2)16	(2)24	(2)32
4		(3)120	160	200
5		350	440	535
6		700	840	1,000
8	1,400	1,600	1,920	2,300
10	2,500	2,900	3,500	4,200
12	3,900	4,600	5,600	6,700

(1) Includes branches of the building drain.
(2) Not over one water closet. To be used on building drain lines only.
(3) Minimum sizes of building sewer when one or more water closets are connected to the building drain line.
(4) No water closets permitted.

Table 30-137a(2)

TABLE OF HORIZONTAL FIXTURE BRANCHES

Diameter of Pipe (Inches)	Maximum number of fixture units that may be connected to	
	Up to 3-stories in height. Any horizontal(1) fixture branch.	Over 3-stories in height. Total at 1-story or branch interval
1¼	1	1
1½	3	2
2	(3)5	(3)4
2½	(3)9	(3)7
3	(2)16	(2)12
4	120	90
5	300	200
6	580	350
8	1,200	600
10	2,500	1,000
12	3,900	1,500

(1) Does not include branches of the building drain line.
(2) Not over one water closet.
(3) Water closets not permitted.

TABLES OF STACK AND VENT SIZES AND LENGTHS

"A" STACK AND VENT SIZES AND LENGTH OF VENT - (UP TO 3-STORIES IN HEIGHT)

Stack Loading		Vent Requirements								
Size of Soil or Waste Line (Inches)	Fixture Units Connected	Diameter of Vent Required (Inches)								
		1¼	1½	2	2½	3	4	5	6	8
		(1) Maximum Total Length of Vent (Feet)								
2	10(3)	30	75	200						
3	30(2)			60	200	500				
4	240			30	190	250	900			
5	540				30	70	300	900		
6	960					24	100	250	1,000	
8	2,200						30	80	350	1,100
10	3,800							30	80	350

"B" STACK AND VENT SIZES AND LENGTH OF VENT - (OVER 3-STORIES IN HEIGHT)

Stack Loading		Vent Requirements									
Size of Soil or Waste Line (Inches)	Fixture Units Connected	Diameter of Vent Required (Inches)									
		1¼	1½	2	2½	3	4	5	6	8	10
		(1) Maximum Total Length of Vent (Feet)									
2	24(3)	20	30	150							
3	60(2)			50	80	400					
4	500			20	70	180	700				
5	1,100				20	50	200	700			
6	1,900					20	70	200	700		
8	3,600						25	60	250	800	
10	5,600							25	60	250	500
12	8,400								25	60	250

(1) Twenty per cent of the above total vent length may be installed in a horizontal position.
(2) Not over 2 water closets may be installed on a 3-inch stack.

General: Vent lines are to be no less than one size smaller than the fixture trap being served, and in no case less than one and one quarter (1 1/4) inches. All water closet revents are to be no less than 2-inches in size.

(3) No water closets permitted.

b. Minimum Size of Soil and Waste Stacks. No soil or waste stack shall be smaller than the largest horizontal branch connected thereto except that a 4 x 3 water closet connection shall not be considered as a reduction in pipe size.

c. Minimum Size of Stack Vent or Vent Stack. Any structure in which a building drain is installed shall have at least one stack vent or vent stack carried full size through the roof not less than 3 inches in diameter or the size of the building drain, whichever is the lesser, and in no case shall the total vent area be less than total building drain area, except as provided in Section 30-151.

d. Future Fixtures. When provision is made for the future installation of fixtures, those provided for shall be considered in determining the required sizes of drain pipes. Construction to provide for such future installation shall be terminated with a plugged fitting or fittings at the stack so as to form no dead ends.

e. Underground Drainage Piping. No portion of the drainage system installed underground or below a basement or cellar shall be less than 2 inches in diameter.

Sec. 30-138. Offsets on Drainage Piping.

a. Offsets of 45 Degrees of Less. An offset in a vertical stack, with a change of direction of 45 degrees or less from the vertical, may be sized as a straight vertical stack. In case a horizontal branch connects to the stack within 2 feet above or below the offset, a relief vent shall be installed in accordance wtih "Reliev Vents", Article VIII of this Chapter.

b. Above Highest Branch. An offset above the highest horizontal branch is an offset in the stack vent and shall be considered only as it affects the developed length of the vent.

c. Below Lowest Branch. In the case of an offset in a soil or waste stack below the lowest horizontal branch, no change in diameter of the stack because of the offset shall be required if it is made at an angle not greater than 45°, the required diameter of the offset and the stack below it shall be determined as for a building drain. (See Table 30-137a(1))

d. Offsets of More than 45 Degrees. A stack with an offset of more than 45 degrees from the vertical shall be sized as follows:

The portion of the stack above the offset shall be sized as for a regular stack based on the total number of fixture units above the offset. The upper portion of the stack above the offset shall be sized as for a building drain. (See Table 30-137a(1), Column 5)

The portion of the stack below the offset shall be sized as for the offset or based on the total number of fixture units on the entire stack, whichever is the larger. (See Table 30-137a(3) "B", Column 2)

A relief vent for the offset shall be installed as provided in Article XIII, and in no case shall the horizontal branch connect to the stack within 2 feet aobve or below the offset.

Sec. 30-139. Sumps and Ejectors.

a. Building Drains Below Sewer. Building drains which connot be discharged to the sewer by gravity flow shall be discharged into a tightly covered and vented sump from which the liquid shall be lifted and discharged into the building gravity drainage system by automatic pumping equipment, which shall have discharge line provided with clear-way check valve and gate valve on street sewer side of check valve.

b. Storage Period. The storage of drainage in a sump or ejector shall not exceed a period of 12 hours.

c. Design. Sump and pumping equipment shall be so designed as to discharbe all contents accumulated in the sump during the cycle of emptying operation.

d. Venting. The system of drainage piping below the sewer level shall be installed and vented, in a manner similar to that of the gravity system.

e. Duplex Equipment. Sumps receiving the discharge of more than six water closets shall be provided with duplex pumping equipment.

f. Vent Sizes. Building sump vents shall in no case be sized less than 2 inches.

g. Separate Vents. Vents from pneumatic ejectors or similar equipment shall be carried separately to the open air as a vent terminal.

h. Connections. No direct connection of a steam exhaust, blowoff, or drip pipe shall be made with the building drainage system. Waste water when discharged into the building drainage system shall be at a temperature not higher than 180 degrees F. When higher temperature exists, proper cooling methods shall be provided.

i. Fixtures Below Manhole Cover Level and/or Subject to Backflow. An approved drainage control device equipped with automatic disc valve and manually operated gate valve shall be provided in an accessible location in all drainage lines serving fixtures located below level of the nearest sanitary sewer manhole cover or subject to backflow. Gravity

drain lines from fixtures above shall be connected to the building sewer on the discharge side of the drainage control device. Written permission shall be obtained from the Director for all basement installations.

Sec. 30-140. Floor Drains.

a. Accessibility. Floor drains shall connect into a trap so constructed that it can be readily cleaned and of a size to serve efficiently the purpose for which it is intended. The drain inlet shall be so located that it is, at all times, in full view.

b. Connection. Floor drains subject to backflow shall not be directly connected to the drainage system, or shall be provided with a backwater valve.

c. Provision for Evaporation. Floor-drain trap seals subject to evaporation shall be of the deep-seal type of not less than 4 inch water seal, or shall be fed from an approved plumbing fixture or by means of an approved automatic priming device designed and approved for that purpose.

d. Bell Traps. Bell traps shall not be permitted.

Article XIII. Vents and Venting

Sec. 30-141. Materials.

a. Vents. Pipe, tubing, and fittings for the vent piping system shall comply with the provisions in Chapter Iv.

b. Specific Type. Standards given in Table 30-53 apply to the specific materials approved for use and as indicated in the various paragraphs in this chapter as they apply to the venting systems.

c. Piping. Vent piping shall be of cast-iron, galvanized wrought iron, galvanized steel, lead, brass, copper pipe, copper tube, or one piece cement asbestos.

d. Underground. Vent piping placed underground shall be cast-iron pipe; provided that other materials may be used for underground vents when proved adequate and upon written approval of the Director. Where threaded joints are permitted for use underground, they shall be coated and wrapped after installation and test.

e. Fittings. Fittings shall conform to the type of pipe used in the vent system as required by paragraphs c and d of this Section.

f. Acid System. Vent piping on acid-waste systems shall conform to that required for acid-waste pipe.

g. Other Materials. Nothing in this section shall be deemed to preclude the use of other materials of equal or better quality when approved as such by the Board.

Sec. 30-142. Protection of Trap Seals.

The protection of trap seals from siphonage of back pressure shall be accomplished by the appropriate use of soil or waste stacks, vents, revents, back vents, relief vents, loop vents, circuit or continuous vents, or combinations thereof, installed in accordance with the requirements of this Chapter. Loop and/or circuit vents may be used only in connection with the battery installation of water closets.

Sec. 30-143. Vent Stacks.

a. Installation. A vent stack or a main vent shall be installed with a soil or waste stack whenever back vents, relief vents, or other branch vents are required in two or more branch intervals.

b. Terminal. The vent stack shall terminate independently above the roof of the building or shall be connected with the extension of the soil or waste stack (stack-vent) at least 6 inches above the flood level rim of the highest fixture.

c. Main Stack. Every building in which plumbing is installed shall have at least one main stack, which shall run undiminished in size and as directly as possible, from the building drain through to the open air above the roof.'

Sec. 30-144. Vent Terminals.

a. Roof Extension. Extensions of vent pipes through a roof shall be terminated at least 10 inches above it except that where a roof is to be used for any purpose other than weather protection, the vent extensions shall be run at least 10 feet above the roof, and shall be anchored to the construction in a manner approved as safe by the Director.

b. Flashings. Each vent terminal shall be made watertight with the roof by proper flashing.

c. Flag Poling. Vent terminals shall not be used for the purpose of flag poling, TV aerials, or similar purposes.

d. Location of Vent Terminal. No vent terminal from a drainage system shall be directly beneath any door, window, or other ventilating opening of the building orof an adjacent building nor shall any such vent terminal be within 10 feet horizontally of such an opening unless it is at least 2 feet above the top of such opening.

Sec. 30-145. Vent Grades and Connections.

a. Grade. All vent and branch vent pipes shall be so graded and connected as to drip back to the soil or waste pipe by gravity.

b. Vertical Rise. Where vent pipes connect to a horizontal soil or waste pipe, the vent shall be taken off above the center line of the soil pipe, and the vent pipe shall

rise vertically, or at an angle not more than 45 degrees from the vertical, to a point at least 6 inches above the flood-level rim of the fixture it is venting before offsetting horizontally or before connecting to the branch vent. Exceptions to this provision are floor drains and "P"-traps installed under floors.

c. Height Above Fixtures. A connection between a vent pipe and a bent stack or stack vent shall be made at least 6 inches above the flood level rim of the highest fixture served by the vent. Horizontal vent pipes forming branch vents, relief vents, or loop vents shall be at least 6 inches above the flood level rim of the highest fixture served. Island sinks where traps are to be inaccessible may be installed with 2-inch, deep-seal P-traps below floor and vented with 2-inch soil pipe to wall with cleanout.

d. Side Inlet. Side inlet closet bends are permitted only in cases where the fixture connecting thereto is vented and shall be subject to the approval of the Director.

Sec. 30-146. Bars and Soda Fountain Sinks.

a. Bars and Fountain Sink Traps. Traps serving sinks which are part of the equipment of bars, soda fountains, and counters need not be vented when the location and construction of such bars, soda fountains, and counters are such as to make it impossible to do so. When such conditions exist, such sinks shall discharge into a floor sink or hopper or bar waste which is properly trapped and vented.

b. Sumps. Sinks or sumps, receiving indirect waste, shall be located in a properly lighted and ventilated space.

Sec. 30-147. Fixtures Back-To-Back.

Two fixtures set back-to-back, within the distance allowed between a trap and its vent, may be served withone continuous soil or waste vent pipe, provided that each fixture wastes separately into an approved double fitting havinginlet openings at the same level. Exceptions are all unlike fixtures which require flushing by other than natural gravity head; such fixtures shall have waste inlet connected at different levels in the waste or soil pipe.

Sec. 30-148. Fixture Vents.

a. Distance of Trap from Vent. Each fixture trap shall have a protecting vent so located that the slope and the developed length in the fixture drain from the trap weir to the vent fitting are within the requirements set forth in the following Table 30-148.

TABLE 30-148. DISTANCE OF FIXTURE TRAP FROM VENT

Size of Fixture Drain (Inches)	Distance Trap to Vent Feet	Inches
1-1/2	3	0
2	4	0
3	5	0
4	6	0

Note: Maximum slope of the above fixture drains shall not exceed 1/2" per 1'.

b. Trap Seal Protection. The plumbing system shall be provided with a system of vent piping which will permit the admission or emission of air so that under normal and intended use the seal of any fixture trap shall not be subjected to a pressure differential of more than 1 inch of water.

c. Trap Dip. The vent pipe opening from a soil or waste pipe, except for water closets and similar fixtures, shall not be below the top weir of the trap.

d. Crown Vent. No back vent shall be installed within two pipe diameters of the trap weir.

Sec. 30-149. Common Vent.

a. Individual Vent. An individual vent, installed vertically, may be used as a common vent for two fixture traps when both fixture drains connect with a vertical drain at the same level.

b. Common Vent. A common vent may be used for two fixtures set on the same floor level but connecting at different levels in the stack, provided the vertical drain is one pipe diameter larger than the upper fixture drain but in no case smaller than the lower fixture drain, whichever is the larger and that both drains conform to Table 30-148.

c. Hydraulic Gradient. Fixture drains shall be vented within the hydraulic gradient between the trap outlet and vent connection, but in no case shall the unvented drain exceed the distance provided for in Table 30-148.

d. Different Levels. If any stack has fixtures entering at different levels, the fixtures other than the fixture entering at the highest level shall be vented, except as may be permitted in other sections of this chapter.

Sec. 30-150. Wet Venting.

All proposed mthods of wet venting shall be submitted to the Board for review and approval prior to installation.

Sec. 30-151. Stack Venting.

a. Genreal. See Fig ure 30-151 for illustrations of acceptable stack vent applications.

No stack venting will be installed without the written approval of the Director. All proposed methods of stack venting shall be subject to review and approved by the Board prior to installation. Galvanized steel or galvanized wrought iron pipe with cast iron drainage fittings may be used for lavatory and sink waste in stack vented installations only.

b. One-Bathroom Group. A group of fixtures, consisting of one bathroom group and a kitchen sink or a combination fixture, may be installed without individual fixture vents in a one-story building, provided that each fixture drain connects independently to the stack and the water closet and bathtub or shower stall drain enters the stack at the same level and in accordance with the requirements in Table 30-148.

c. Relief or Back Vents. A relief vent or back vent shall be installed on a sink, combination fixture, or kitchen sink which connects to a stack-vented bathroom group and the waste therefrom shall be carried below the water closet connection before connecting to the stack.

Sec. 30-152. Individual Fixture Reventing.

a. Horizontal Branches. One sink and one lavatory, or three lavatories within 8 feet developed length of a main-vented line may be installed on a 2-inch horizontal waste branch without reventing, provided the branch is not less than 2 inches in diameter throughout its length, and provided that the wastes are connected into the side of the branch and the branch leads to its stack connection with a slope of not more than one-fourth inch per foot and is full-sized end-vented back to the stack.

b. Where Required. When fixtures other than water closets discharge downstream from a water closet, each fixture connecting downstream shall be individually vented.

c. Limits of Fixture Units above Bathtubs and Water Closets. A fixture or combination of fixtures whose total discharge rating is not more than three fixture units may discharge into a stack not less than 3 inches in diameter without reventing, provided such fixture connections are made above the connection to the highest water closet, or bathtub T-Y, the fixture-unit rating of the stack is not otherwise exceeded, and their waste piping is installed as otherwise required in paragraph a of this Section.

Sec. 30-153. Circuit and Loop Venting.

a. Battery Venting. A branch soil or waste pipe to which two but not more than six floor mounted water closets are connected in battery into the side of a horizontal branch may be vented by a circuit or loop vent which shall take off in front of the last fixture connection. In addition, lower floor branches serving more than three water closets shall be provided with a relief vent taken off in front of the first fixture connection. When lavatories or other similar fixtures discharge above such branches, each vertical branch shall be provided with a continuous vent. All blow-out type fixtures shall be individually vented.

b. Vent Connections. When the circuit, loop, or relief vent connections are taken off the horizontal branch, the vent branch connection shall be taken off at a vertical angle or from the top of the horizontal branch.

c. Fixtures Back-to-Back in Battery. When fixtures are connected to one horizontal branch through a double Y or a sanitary T in a vertical position, a common vent for each two fixtures back-to-back or double connection shall be provided. The common vent shall be installed in a vertical position as a continuation of the double connection.

Sec. 30-154. Pneumatic Ejectors.

Relief vents from a pneumatic ejector shall not be connected to a fixture-branch vent but shall be carried separately to a moan vent or stack-vent or to the open air.

Sec. 30-155. Relief Vents- Stacks of more than 10 branch intervals.

Soil and waste stacks in buildings having more than 10 branch intervals shall be provided with a relief vent at each tenth interval installed, beginning with the top floor. The size of the relief vent shall be equal to the size of the vent stack to which it connects. The lower end of each relief vent shall connect to the soil or waste stack through a Y below the horizontal branch serving the floor and the upper end shall connect to the vent stack through a Y not less than 3 feet above the floor level.

Sec. 30-156. Offsets at an Angle Less than 45 Degrees from the Horizontal in Buildings of Five or More Stories.

Offset Vents.

a. Offsets less than 45 degrees from the horizontal, in a soil or waste stack, except as permitted in Article XII, Section 30-138, shall comply with paragraphs b and c of this section.

b. Separate Venting. Such offsets may be vented as two separate soil or waste stacks, namely, the stack section below the offset and the stack section above the offset.

c. Offset Reliefs. Such offsets may be vented by installing a relief vent as a vertical continuation of the lower section between the offset and the next lower fixture or horizontal branch. The upper section of the offset shall be provided with a yoke vent. The diameter of the vents shall be not less than the diameter of the main vent, or of the soil and waste stack, whichever is ths smaller.

Sec. 30-157. Main Vents to Connect on Base.

All main vents or vent stacks shall connect full size at their base to the building drain or to the mainsoil or waste pipe, at or below the lowest fixture branch. All vent pipes shall extend undiminished in size above the roof, or shall be reconnected with the main soil or waste vent.

Sec. 30-158. Vent Headers, Connections of Vents.

Stack-vents and vent stacks may be connected into a common vent header at the top of the stacks and then extended to the open air at one point. This header shall be sized in accordance with the requirements of Table 30-159f, the number of units being the sum of all units on all stacks connected thereto and the developed length being the longest vent length from the intersection at the base of the most distant stack to the vent terminal in the open air as a direct extension of one stack.

Sec. 30-159. Size and Length of Vents.

a. Length of Vent Stacks. The length of the vent stack or main vent shall be its developed length from the lowest connection of the vent system with the soil stack, waste stack, or building drain to the vent stack terminal, if it terminates separately in the open air, if the two vents are connected together with a single extension to the open air.

b. Size of Individual Vents. The idameter of an individual vent shall be not less than 1 1/4 inches nor less than one-half the diameter of the drain to which it is connected.

c. Size of Relief Vent. The diameter of a relief vent shall be not less than one-half the diameter of the soil or waste branch to which it is connected.

d. Size of Circuit or Loop Vent. The diameter of a circuit or loop vent shall be not less than one-half the size of the diameter of the horizontal soil or waste branch or the diameter of the vent stack, whichever is smaller. Size all circuit or loop vents in accordance with the following Table 30-159e.

TABLE OF SIZES OF CIRCUIT OR LOOP HORIZONTAL VENT LINES

Table 30-159e

Horizontal Soil or Waste Pipe Diameter (Inches)	Fixture Unite Maximum No.	Diameter of Circuit or Loop Vent (Inches)			
		2 1/2	3	4	5
		Maximum Horizontal Length (Feet)			
4	100	18	40	200	
4	200	15	35	180	
5	300		12	50	180
6	580		10	40	140

f. Size of Vent Piping. The size of vent piping shall be determined from its length and the total of fixture units connected thereto, as provided in Table 30-159f. Twenty percent of the total length may be installed in a horizontal position.

Table 30-159f

TABLE OF SIZE AND LENGTH OF VENTS

Size of Soil or Waste Stack (Inches)	Fixture Units Connected	Diameter of Vent Required (Inches)								
		1¼	1½	2	2½	3	4	5	6	8
		Maximum Length of Vent (Feet)								
2	12	30	75	200	---	---	---	---	---	---
2	20	26	50	150	---	---	---	---	---	---
2½	42	---	30	100	300	---	---	---	---	---
3	10	---	30	100	200	600	---	---	---	---
3	30	---	---	60	200	500	---	---	---	---
3	60	---	---	50	80	400	---	---	---	---
4	100	---	---	35	100	260	1000	---	---	---
4	200	---	---	30	90	250	900	---	---	---
4	500	---	---	20	70	180	700	---	---	---
5	200	---	---	---	35	80	350	1000	---	---
5	500	---	---	---	30	70	300	900	---	---
5	1,100	---	---	---	20	50	200	700	---	---
6	350	---	---	---	25	50	200	400	1300	---
6	620	---	---	---	15	30	125	300	1100	---
6	960	---	---	---	---	24	100	250	1000	---
6	1,900	---	---	---	---	20	70	200	700	---
8	600	---	---	---	---	---	50	150	500	1300
8	1,400	---	---	---	---	---	40	100	400	1200
8	2,200	---	---	---	---	---	30	80	350	1100
8	3,600	---	---	---	---	---	25	60	250	800
10	1,000	---	---	---	---	---	---	75	125	1000
10	2,500	---	---	---	---	---	---	50	100	500
10	3,800	---	---	---	---	---	---	30	80	350
10	5,600	---	---	---	---	---	---	25	60	250

Sec. 30-160. Combination Waste-and-Vent System.

a. Where Permitted. A combination waste-and-vent system shall be permitted only where structural conditions preclude the installation of a conventional system as otherwise provided in this code.

b. Limits. A combination waste-and-vent system is limited to floor drains and sinks. It consists of an installation of waste piping in which the trap of the fixtures is not individually vented. Every waste pipe and trap in the system shall be at least two pipe sizes larger than the sizes required in Article XII, Drainage System.

Article XIV. Swimming Pools.

Sec. 30-162. General.

All waste water from the swimming pool which is non re-circulated shall be discharged into the sanitary sewer in one on the following manners:

The discharge line of all pumped wastes shall not exceed two (2) inches in diameter.

Gravity flow waste water shall have a free fall discharge with a minimum air break of four inches.

Under no condition shall cross connections exist between swimming pool, swimming pool water or the recirculation system and the water supply and/or the waste drain or sewer.

Article XV. Trailers or Coaches.

Sec. 30-163. Trailer Courts.

Each trailer shall have a four-inch cast iron deep seal soil P-trap with a cleanout caulked into the hub. The cleanout cover shall be reinforced with eighteen inches diameter by six inches deep of concrete. No other than soil pipe may be installed under a trailer or a concrete slab, tarvia or equal. Each trailer outlet shall be provided with a 3/4 inch valved water connection and shall be protected against back siphonage or backflow in a manner approved by the Director. Ten trailers may connect to a four-inch soil line with one four-inch vent at the end of the line. Fifty trailers are limited toa six-inch outfall with a four-inch vent for every ten trailers. Vents may be offset at a forty-five degree angle to a convenient location. A block of concrete eighteen inches square by eighteen inches deep shall be poured around any free standing stack. Cleanouts shall be installed where required by other Articles of this Code. The flexible water, and drain connections between trailer park outlets and trailer coach outlets shall be of a type to readily permit quick attachment and in the event of emergency where a trailer coach may be pulled out they shall be so arranged to automatically disconnect without damaging the piping or the coach.

Article XVI. Gas Fitting.

Sec. 30-164.

Definitions.

(a) "Appliance" means a gas-burning device which utilizes gas fuel to produce light, heat, power of refrigeration.

(b) "Gas Service" means the pipe that runs between a main and a customer's meter.

(c) "House Piping" means the system of piping, either exposed or concealed, which conveys gas from the outlet of the service meter to appliances at various places throughout a building.

(d) "Concealed Gas-Piping" means piping which, when in place in the finished building, is hidden from view by the structure.

(e) "Exposed Gas-Piping" means piping which, when in place in the finished structure, is in view.

(f) "Outlet" means a threaded connection in a piping system to which a gas-fired appleance is or may be attached.

(g) "Riser" means any vertical pipe which conducts the gas upward.

(h) "Service Meter (or Meters)" means the instrument installed on the customer's premises by the Gas Department, City Public Service Board, for measuring the gas supplied to the customer.

(i) "Street Main (or Mains)" means a portion of the system used for distributing gas, generally located entirely outside of the customer's premises and which is designated to supply gas to the service pipes of one or more ucstomers.

(j) "Burner" means a device for the final release of air/gas mixtures into the cumbustion zone.

(k) "Drip" means the container placed at a low point in a system of piping to collect condensate and from which it may be removed.

(l) "Shut-Off Cocks (Valves)" means the cocks or valves readily accessible and operable by the consumer located in the piping system (to shut-off individual equipment.)

(m) "Consumer" means any person using gas, including gas for residential, commercial, or industrial purposes or any combination of such purposes.

(n) "Gas" means natural gas.

(o) "Certified Welder" means a person who has passed qualification tests as prescribed by the National Certified Pipe Welding Bureau or other reputable testing laboratory using ASME or American Welding Society procedures. Such persons shall have certifications not exceeding 6 months in age.

(p) "liquified Petroleum Gases- L.P.G. shall mean and include any material which is

composed predominantly of the following hydrocarbons or mistures of them: propane, propylene, butane (normal butane or iso-butane), and butylenes.

Sec. 30-165. Enforcement of Article.

a. Authority of Director. The Director and his assistants are hereby vested with full authority to pass upon and decide any question arising under the provisions of this Article relating to any such house piping, appliance, fixtures or installation or repair thereof, or relative to the materials used therein, whether the same be in the original construction and erection, or in any alteration or repair thereof. In addition, the Director and his assistants are authorized, empowered and directed:

(1) To supervise all house liping, appliances, and apparatus whether installed, placed in, or in any manner connected, in buildings and structures of every character;

(2) To supervise the installation, construction, and repair thereof, and to see that all the rules and regulations of the City with respect thereto are properly complied with;

(3) To inspect and reinspect all such house piping, appliances, fixtures and apparatus, and the installation, construction, alteration or repair thereof whenever and as often as they shall deem necessary, in order to minimize danger of fires and accidents or injuries to persons or property and the Director and his assistants are authorized, empowered and directed to cause all such house piping, appliances, fixtures and apparatus and installation thereof to be such as not to cause fire or accident or injury to life or property.

b. Permit for Installations or Alterations Required. No person shall install, or make alterations of house piping or appliances in any new or old building within the limits of the City, without first obtaining a permit to do such work from the Director, wxcept as hereinafter provided; provided, that no such application need be made and no permit issued for an exposed gas line above the floor not exceeding five feet in length, to connection for one gas stove but such extension must conform to other provisions of this article.

c. Approval of Appliances. No gas appliance, fixture or apparatus, either for heating, illumination, or hot water heating will be installed, until such appliance or fixture has been checked by the Director or his assistant to insure that such device or appliance is listed by the American Gas Association, Inc. Laboratories and/or Underwriters' Laboratories, Inc. and that such appliance is approved by the foregoing agencies for installation and service in the particular application for which a permit is requested.

d. Inspection of Additional Work. Any additional piping or outlets installed after a certificate is granted as provided in Section 30-172 must be reported for inspection and test.

e. Inspection Fees. For inspection of new gas piping, extensions, branch lines and alteration work in any building, the Director shall charge and collect from the person applying for such inspection the sum of one dollar for each inspection up to fifteen outlets, and ten cents for each additional outlet, as per schedule following:

Sizes in inches.....3/8, 1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4
Value in Outlets.....1, 2, 6, 11, 20, 32, 66, 115, 181, 372

f. Additional Fees. If the house pipes are not tight, or if the construction and installation of the fixtures, piping and appurtenances, do not conform to the provisions of this chapter when the inspector is called for inspection and approval, and it is necessary for the inspector to make another inspection, then there shall be made and collected a charge of $1.00 for each additional trip for inspection.

g. Testing. The house piping in a building shall be tested air-tight by the gas fitter, and before the pipes are concealed they must be inspected, the test witnessed, a certificate of inspection issued, and an inspection tag attached to such piping by the Director.

The test on house piping shall be made by closing all openings and subjecting the pipes to an air pressure that will support a column of mercury 15 inches in height. If this column of mercury is supported by the air pressure for at least 15 minutes, during periods of constant temperature, the piping shall be considered tight.

Water will not be used in testing gas piping for leaks and piping into which water has been introduced will not be approved, but will be condemned as faulty.

A fire test is not permitted under any circumstances on inside work.

When the gas fitter has completed the system of piping gas and has all branch and bracket extensions and heater openings firmly and permanently fastened, he shall test the piping and if found tight, shall make application for tests with the Director. The Director or his assistants will call and inspect the piping and witness the test, and if he finds the piping tight, and the sizes and work in accordance with the provisions of this article, then the Director or such assistant will issue and deliver a certificate of inspection.

h. Certificate Prerequisite to Gas Service. The Director will furnish to the City Public Service Board, a copy of each certificate of inspection which he or his assistants issue, and this will authorize such board to install gas service at the building or premises covered by the certificate of inspection.

In no case shall the board turn gas into new, or altered or repaired house piping system, if it is aware of this condition, until receipt of the certificate of inspection covering such installation.

i. Unsafe House Piping. The Director shall shut off or cause to be shut off all gas service in residence or business houses in the city, where in his judgment the house piping or appliances are unsafe. The gas will remain shut off until such times as the unsafe conditions are corrected by the property owner or the fitter installing same, and a certificate of inspection issued by the Director and a copy thereof furnished to the City Public Service Board, after which the board may restore the service.

j. Unauthorized Connection with Gas Service. No person other than the City Public Service Board owning the service, or supplying gas through the service, shall at any time turn on any valve or cock on any gas service, or open or make connection to any gas service or main.

k. By-Passes and Cross Connections Prohibited. No person shall install, construct, or maintain any cross connection or by-passes in house gas piping which will permit gas to be supplied from one house piping system to another, where meters are installed for metering the gas consumed from each house piping system separately.

l. Notice to Remove. The Director shall, upon discovering a violation of the foregoing section, immediately give the owner or person in charge of the building or premises upon which such connection is maintained, written notice to remove the cross connection or by-pass within three days from the time of receiving such written notice, and upon failure to comply with such written notice, the Director, or his assistants, shall cut off the gas and remove or cause to be removed, all meters connected with such cross connection or by-pass and such meters shall be restored only upon a certificate of permission from the Director after such connection shall have been removed.

m. Gas Fitter's Bond. Before engaging in the business of gas fitting, every person shall file with the City of San Antonio a bond in the sum of five thousand dollars to be approved by the Director, conditioned that such party will faithfully comply with the terms and provisions of this article and all the rules and regulations made in pursuance thereof, and will indemnify and hold the City harmless against all costs, expenses, damages and injuries sustained by the City by reason of the carelessness or neglect of such gas fitter in operating under this article, and the rules and regulations made in pursuance thereof. The bond herein required shall expire on the first day of January next following the date of the approval of such bond by the Director of Housing and Inspections, and thereafter on the first day of January a new bond in form and substance as herein required shall be given by any such person to cover all such work as shall be done during the year beginning on such January 1st.

n. Revocation of License. If any licensee shall fail to comply with the provisions of this article, his license may be revoked, in addition to any other penalty provided by law.

Sec. 30-166. Specifications.

a. Materials.

(1) All pipe used for the installation, extension, alteration, or repair of any gas piping shall be standard weight srought iron, black steel, or galvanized steel, free from splits or other defects.

(2) Copper tubing, type "K" may be used for underground piping for the installation of outside gas lights.

(3) All such pipe shall be new and free from internal obstructions. Burred ends shall be reamed to the full bore of the pipe.

(4) House-pipe lines installed underground shall be standard weight wrought iron, black steel, or galvanized steel protected against soil corrosion with an approved type protective coating.

(5) Welded joints may be used wherever practical in such cases of industrial and commercial installations where piping of 2-inch and larger is specified. All welding shall be performed by a "Certified Welder" with a current rating in force.

(6) All stop cocks and hose cocks used in connection with gas house piping shall be of a type designed and approved for use with natural gas.

(7) Fittings 3 inch and smaller shall be of galvanized malleable iron.

(8) Cast iron fittings may be used in sizes above 3 inch.

(9) Bushings shall not be used on concealed work. On exposed work reducing couplings are to be preferred to bushings. When bushings must be used, they should reduce no less than two pipe sizes.

(10) Three-way valves shall not be permitted.

(11) Unions, gland or compression type joints, running threads, and right and left couplings shall not be used on concealed gas piping.

When necessary to insert fittings in existing piping which has been installed in a concealed location, the piping may be reconnected by the use of a ground joint union with the nut "center punched" to prevent loosening by vibration.

(12) The use of cement for repairing split or faulty pipe or fittings is not permitted.

(13) All connections between ferrous and non-ferrous piping (appliance connections excepted) shall be made by the use of dielectric couplings or unions.

b. Size and Length of Pipe for Outside Gas Lights. Underground piping to outside gas lights may be standard weight galvanized steel protected against corrosion with a protective wrapping which will meet the requirements of the Director, or type K copper tubing. Flared joints shall be used in all copper tubing installations. The connection to the house piping system shall be above ground at the meter loop.. A valve assembly and insulating fitting shall be located at the connection to insulate the copper tubing from the steel house pipe. Underground gas light piping shall not paralled sidewalks, curbs, or flower beds at a distance nearer than one (1) foot. Gas lights and piping shall not be installed nearer building walls than 24 inches.

All gas light installations must be tested by means of a soap test or its equivalent, and all connections underground must be left uncovered until after inspections.

The permit fee for gas lights shall be two dollars for the first light and one dollar for each additional light up to six, inclusive, and 50 cents for each additional light over six.

The following table shall govern the size of underground piping for outside gas lights and is applicable only for single mantle burner rated at two(2) cubic feet per hour or less.

Table 30-166b

SIZE OF PIPE	LENGTH ALLOWED	NO. OF LIGHTS
3/8 - Inch	300 Feet	1
3/8 - Inch	100 Feet	2
3/8 - Inch	50 Feet	3
1/2 - Inch	200 Feet	4
1/2 - Inch	140 Feet	5
1/2 - Inch	100 Feet	6
1/2 - Inch	70 Feet	7
5/8 - Inch	200 Feet	8
5/8 - Inch	160 Feet	9
5/8 - Inch	130 Feet	10

Multiple installations not covered by this Table, shall be covered by Table III.

c. Length of Pipe and Number of Openings or Gas Appliances. The following rules shall govern size and length of pipe and greatest number of openings allowed in piping building for use of gas appliances, where the connected loads are not known.

TABLE 30-166c

LENGTH OF PIPE IN FEET

Number of openings	½ inch pipe	3/4 inch pipe	1 inch pipe	1¼ inch pipe	1½ inch pipe	2 inch pipe	2½ inch pipe	3" pipe
1	27	50	70	100	150	200	300	400
2		50	70	100	150	200	300	400
3		24	70	100	150	200	300	400
4			50	100	150	200	300	400
5			35	100	150	200	300	400
6				60	150	200	300	400
8				45	120	200	300	400
10					65	200	300	400
13					42	175	300	400
15						120	300	400
18						90	270	400
20						70	210	400
23						55	165	400
25						45	135	330
30							80	200
35							60	150
40							50	125
50								80
65								50
75								35

d. Sizing a Gas Piping System.

(1) In cases where the demand in cubic feet per hour of the various appliances are known, Table 30-166d shall be used for determining the size of house piping required. Such demand shall be determined in cubic feet per hour by dividing the manufacturer's BTU input rating of the appliance by 1,000. In cases where the rating is not known, the capacity given in Table 30-166d(1) may be used.

TABLE 30-166d

MINIMUM SIZE WHERE THE DEMAND AND MAXIMUM LENGTH ARE KNOWN

Length of Pipe in Feet	DIAMETER OF PIPE IN INCHES 1/2	3/4	1	1¼	1½	2	3	4	6	8
	DEMAND IN CUBIC FEET PER HOUR									
15	76	172	345	750	1200	2480	6500	13880	38700	79000
30	55	120	241	535	850	1780	4700	9700	27370	55850
45	44	99	199	435	700	1475	3900	7900	23350	45600
60	38	86	173	380	610	1290	3450	6800	19330	39500
75		77	155	345	545	1120	3000	6000	17310	35300
90		70	141	310	490	1000	2700	5500	15800	32250
105		65	131	285	450	920	2450	5100	14620	29850
120			120	270	420	860	2300	4800	13680	27920
150			109	242	380	780	2090	4350	12240	25000
180			100	225	350	720	1950	4000	11160	22800
210			92	205	320	660	1780	3700	10330	21100
240				190	300	620	1680	3490	9600	19740
270				178	285	580	1580	3250	9000	18610
300				170	270	545	1490	3000	8500	17660
450				140	226	450	1230	2500	7000	14420
600				119	192	390	1030	2130	6000	12480

TABLE 30-166d(1) APPROXIMATE MAXIMUM GAS CONSUMPTION FOR SOME COMMON APPLIANCES.

Appliance	Input BTU per Hr. (Approx.)
Range, domestic, 4 top burners and 1 oven burner	62,500
Range, domestic, 4 top burners and 2 oven burners.....	82,500
Range, domestic, 6 top burners and 2 oven burners.....	107,500
Hot plate or laundry stove, domestic, per burner.....	9,000
Room heater, domestic, radiant type, per single radiant	2,000
Room Heater, domestic, radiant type, per double radiant	4,000
Water heater, automatic instantaneous Capacity (4 gal. per minute	150,000
(6 gal. per minute	225,000
(8 gal. per minute	300,000
Water heater, domestic, circulating or side arm.....	25,000
Refrigerator	2,500

For automatic storage water heaters and other appliances, the input should be determined from the manufacturer's rating.

(2) For large buildings, housing projects, industrial installations, or where unusual conditions are met with, consult the Gas Department, City Public Service Board.

(3) The branch supply pipes to all cooking stoves, ranges and water heaters (circulating, instanteneous, and automatic) shall be one commercial size larger than the inlet connection of above mentioned appliances, and no runs from mains or branch supply line to appliances shall be less than one-half inch. For central heating, furnaces, and unit heaters, the house pipe size shall be governed by the rated capacity of the appliance and Table 30-166d shall apply. Risers in buildings must in no case be less than three-fourths of an inch.

(4) Explanation of Table 30-166d for Sizing Pipe. To determine the size of each section of pipe in any system within the range of Table 30-166d, proceed as follows:

(a) Measure the length of the pipe from the gas meter location to the most remote outlet on the system.

(b) In Table 30-166d, select the length of pipe in feet showing that distance, or the next longer distance, if the table does not give the exact length, interpolation is permitted.

(c) Use this length to locate all gas demand figures in the vertical columns fro this particular system of gas main piping.

(d) Starting at the most remote outlet, find opposite the length selected, the gas demand for that outlet or branch. If the exact figure of demand is not shown, choose the next larger figure to the right in the next column. Interpolation for 2 1/2" pipe is permotted.

(e) Just above this demand figure will be found the correct size of pipe.

(f) Proceed in a similar manner for each outlet and each section of pipe. For each section of pipe determine the total gas demand supplied by that section.

(g) For branch piping from the main line to outlets closer to the supply than the most distant outlet, proceed as described above except that from the point of connection to the mainline and to the supply, the main shall be sized using the pipe length to the most distant outlet with the branch load added to the main line load.

EXAMPLE

PROBLEM: Determine the required pipe size of each section and outlet of the piping system shown in Figure 1.

SOLUTION:

(1) Maximum Gas Demand

Outlet A = 100,000 Btu/hr. = 100 cubic ft./hr.
Outlet B = 30,000 Btu/hr. = 30 cubic ft./hr.
Outlet C = 150,000 Btu/hr. = 150 cubic ft./hr.

Total Connected Load = 280 cubic ft./hr.

(2) Length of pipe from meter to most remote outlet (Outlet A) is 30' + 20' + 90' + 40' = 180'. This distance is used for all loads on the main line piping in this problem. The main line piping in this problem will be pipe from the meter to Outlet A.

(3) Using 180' under Length of Pipe in Feet column of Table 30-166d:

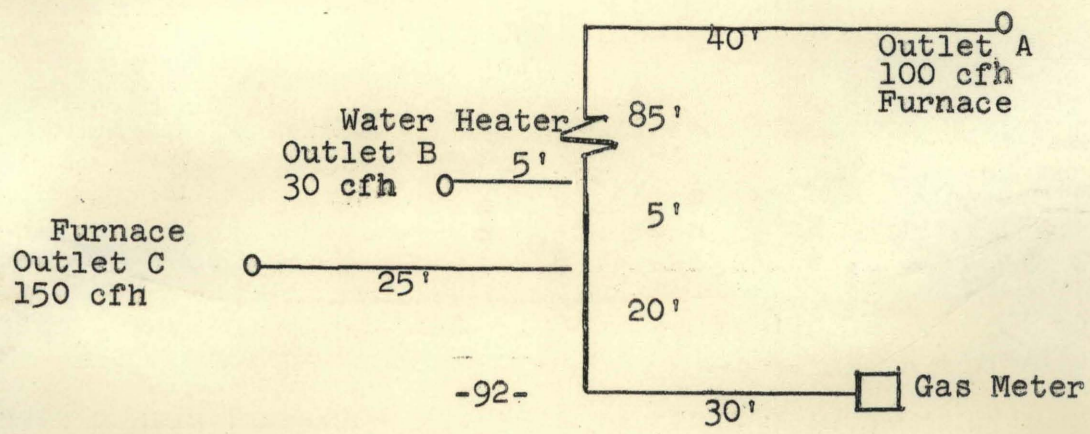
(a) Outlet A, supplying 100 cfh, requires 1" pipe.

(b) Main line section between connection of branch to Outlet B and branch to Outlet C, supplying 100 cfh + 30 cfh = 130 cfh, requires 1¼" pipe.

(c) Main line section between Outlet C and gas meter, supplying 100 cfh + 30 cfh + 150 cfh = 280 cfh, requires 1½" pipe.

(d) Branch line between Outlet B and the main line, supplying 30 cfh and with the outlet a distance of 60' from the meter, requires ½" pipe (using 60' Length of Pipe and 30 cfh in Table 30-166d), however, 3/4" pipe required as this is one commercial size larger than the ½" connection for the water heater.

(e) Branch line between Outlet C and the main line, supplying 150 cfh and with the outlet a distance of 75' from the meter, requires 1" pipe (using 75' Length of Pipe and 150 cfh in Table 30-166d).



e. Drains. All house piping shall be properly graded to a drip of ample size located in an accessible place. Where space will permit, house pipe will be drained away from meter to a drip placed at far end of main supply line. Otherwise drip will be placed at meter locations and pipe graded to same.

All house piping shall be securely fastened to floor joists or sills with either galvanized pipe straps or pipe hook, or with perforated pipe straps, and in such a manner as to prevent pipe from sagging and becomming trapped.

The following maximum spacing of supports shall be used:

3/8 inch or 1/2 inch pipe----------6 feet
3/4 inch or 1 inch pipe----------8 feet
1 1/4 inch or larger pipe (horizontal)----------10 feet
1 1/4 inch or larger pipe (vertical) each floor

No gas pipe shall be run closer than siz inches to any electric wire unless such electric wire be inside a conduit.

f. Pipes. Gas must not be supplied from a smaller pipe to a larger one.

All branch outlet pipes shall be taken from top or sides of main supply lines and never from below.

Where extensions to house piping are made, care must be taken to break pipe where the rule for size can be maintained.

g. Underground Pipe and Other Concealed Locations.

(1) No gas piping shall be built into or embedded in any brick, stone, masonry, or concrete and no such piping shall be installed in or on the ground under any building or structure and all exposed gas piping shall be kept at least six (6) inches above grade.

(2) When a house pipe is laid underground, the underground portion including joints and riser shall be portected against soil corrosion with an approved type protective coating

and shall be drained to an accessible and suitable syphon drip.

(3) Gas piping shall not be run in floor, or through heating, cooling, or ventilating ducts, elevator shafts, furnaces, refrigerating rooms, drying ovens or in any place where proper ventilation cannot be continuously provided and piping easily inspected at any time.

(4) Gas piping shall not be run in the same ditch with water, sewer, or any other utility line. A lateral clearance of not less than two (2) feet shall be maintained.

(5) Gas piping shall not be located in cinder fill.

h. Joints. White lead or other suitable joint compounds shall be used sparingly and spplied only to the male threads in making up joints on gas house piping.

i. Stoves and Other Appliances. No water heater which depends on the combustion o natural gas for heat shall be installed in any room used or designed to be used for sleeping purposes, bathroom, clothes closet, or in any closet or other confined space opening into any bath or bedroom.

Each and every gas stove, range, cooking stove, hot water heater, and other gas consuming appliances shall be provided with a lever handled stop cock located in the riser above the floor, and below the union, at the appliance. Such stop cock shall be readily accessible at all times.

Gas connection to stoves, ranges, cooking stoves, hot water heaters and other appliances shall be made by rigid metal connections, except that American Gas Association approved flexible metal may be used for connections for small portable heating appliances, provided there is no cock on such portable heating appliance.

Non-portable applainces such as central heating, water heating and similar equipment shall be connected to the gas piping with rigid pipe or by approved semi-rigid tubing not more than 2 feet in length.

Hot plates, clothes dryers, room heaters, refrigerators, domestic gas ranges, and similar equipment, shall be connected to the gas piping with rigid pipe, approved semi-rigid tubing or approved appliance connectors of flexible metal tubing and fittings. When a semi-rigid tubing connector or a connector of flexible metal tubing and fittings is used, it shall connect to an outlet in the same room as the appliance. The length of the connector shall not exceed 6 feet. The connector shall be installed so as to be protected against physical damage.

The connection of an appliance with any type of gas hose is prohibited, except when used withlaboratory, shop, or ironing equipment that requires mobility during operation. Such connections shall have the shut-off or stop cock installed at the connection to the building piping. Where has hose is used, it shall be of the minimum practical length, but not to exceed 6 feet and shall not extend from one room to another nor pass through any walls, partitions, ceilings, or floors. Under no circumstances shall gas hose be concealed from view or used in a concealed location. Only listed gas hose shall be used. Listed gas hose shall be used only in accordance with the terms of its listing. Gas hose shall not be used where it is likely to be subject to excessive temperatures (above 125°F.)

j. Apartment Flues. In tenement houses, every apartment shall be provided with an open stove pipe connection with a metal or masonry flue or chimney.

No gas stove or water heater shall be directly connected with a flue that serves another apartment, except that flues from several apartments may be united in the attic.

Furnaces and water heaters must be provided with vent and flue connections at least as large as the vent connection on the furnace or water heater and extend to open air at least 18 inches above the roof and terminate with an approved cap.

Where more than one appliance is vented with a flue, the area of such flue shall be equal to the combined areas of the vents entering into it.

Ranges, hot plates, etc., used in hotels, restaurants, and hamburger stands where gas is used for fuel, must be provided with canopies properly vented into brick, tile or metal flues extending to open air at least 18 inches above the roof.

Vent pipes in attics may connect with a chimney flue if provided with an approved liner; or may extend through the roof to open air at least 18 inches above the roof and terminate with an approved cap.

Wood partitions through which vent pipes pass must be protected by a thimble with a proper air space, except that no vent pipe shall pass through any closet or pantry used for the storage of clothing, household goods or any combustible material.

Water heaters and gas appliances having pilot burners must be provided with down draft devices above the fixtures in the vent, near the appliances.

k. Meters.

(1) In piping any building for gas, the Gas Department, City Public Service Board, shall decide and designate in every case where the gas meter is to be located, and no piping shall be installed until the location has been designated.

(2) The joint between the house piping and the outlet to the meter connection will be proven tight at the time the house piping is tested.

(3) Where a gas meter is installed under the floor of any building, a door or opening at least two feet by two feet shall be provided in the skirting of the building within four feet of the gas meter.

(4) Where more than one meter is set on a particular premise, they shall all be set at one location, except where this is impractical. In multiple meter installations each separate gas piping system shall be identified in a manner satisfactory to the Gas

Department, City Public Service Board.

(5) Where one or more meters are desired in a given building, the City Public Service Board may set as many meters to one service riser, provided that the house piping leading to such different consumers are extended to and connected with their respective meter connection outlets and are run according to the requirements as set forth in this Code.

(6) Gas meters shall not be located where they will be subject to damage, such as adjacent to a driveway or in public passages.

(7) Gas meters should not be located under windows, fire escapes, interior stairways, or in engine, boiler, heater, or electric meter rooms, except as may be approved by the City Public Service Board.

1. National Standard. All work installed under the Gas Fitting Section of this Code shall comply to the standards of the National Board of Fire Underwriters for the installation of gas piping and gas appliances in buildings as recommended by the National Fire Protection Association, a pamphlet normally referred to as NBFU Pamphlet No. 54. Except where specifically changed by Table within this Code, all provisions of NBFU Pamphlet No. 54 shall apply to work installed under this code.

2. The invalidity of any portion of this ordinance, or any possible application thereof, shall not affect the validity of the remainder, or of other possible applications of this ordinance.

3. The effective date of this ordinance shall be October 1, 1960.

4. PASSED AND APPROVED the 18th day of August A. D., 1960.

J. EDWIN KUYKENDALL, M A Y O R

ATTEST: J. Frank Gallagher
City Clerk

- - - - - - - - -

AN ORDINANCE 28, 816

ACCEPTING THE ATTACHED LOW QUALIFIED BID OF SAN ANTONIO MACHINE & SUPPLY COMPANY TO FURNISH THE CITY OF SAN ANTONIO DEPARTMENT OF PUBLIC WORKS WITH CERTAIN METAL TUBING FOR A TOTAL OF $1,691.00.

* * * * * * * * *

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:

1. The attached low qualified bid of San Antonio Machine and Supply Company, dated August 15, 1960 to furnish the City of San Antonio, Department of Public Works, Traffic Maintenance with certain metal tubing for a total of $1,691.00, net is hereby accepted.

2. Payment to be made from 1-01 General Fund, Department of Public Works, Account No. 09-08-02.

3. All other bids received are hereby rejected.

4. PASSED AND APPROVED this 25th day of August, 1960.

J. EDWIN KUYKENDALL, M A Y O R

ATTEST: J. Frank Gallagher
City Clerk

- - - - - - - - -

AN ORDINANCE 28, 817

ACCEPTING THE ATTACHED LOW QUALIFIED BID OF DON WITTIG OFFICE FURNITURE TO FURNISH THE CITY OF SAN ANTONIO WITH CERTAIN DOUBLE TIER LOCKERS FOR A TOTAL OF $1,461.60.

* * * * * * * * * *

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:

1. The attached low qualified bid of Don Wittig Office Furniture, dated August 19, 1960, to furnish the City of San Antonio with 84 double tier lockers-Lyon 5202-3 for a total of $1,461.60 less 1%-10 days is hereby accepted.

2. Payment to be made from General Fund 1-01 Special Projects- Other Appropriations, Account No. 09-06-01B, $735.60.

3. All other bids received are hereby rejected.

4. PASSED AND APPROVED this 25th day of August, 1960.

J. EDWIN KUYKENDALL, M A Y O R

ATTEST: J. Frank Gallagher
City Clerk